TEST REPORT

Application No.:	SZCR2504001356AT
Applicant:	LG Electronics USA, Inc.
Address of Applicant:	111 Sylvan Ave, North Building, Englewood Cliffs, New Jersey, 07632, United States.
Manufacturer:	LG Electronics USA, Inc.
Address of Manufacturer:	111 Sylvan Ave, North Building, Englewood Cliffs, New Jersey, 07632, United States.
Factory:	Cosonic Electroacoustic Technology Co., Ltd.
Address of Factory:	No.151, Shipai Section, Dongyuan Avenue, Shipai Town, Dongguan City, Guangdong Province, P.R. China.
Equipment Under Test (EUT):	
EUT Name:	xboom Buds Lite
Model No.:	BUDSLITE
Trade Mark:	LG
FCC ID:	ZNFBUDSLITE
Standard(s) :	47 CFR Part 15, Subpart C 15.247
Date of Receipt:	2025-04-08
Date of Test:	2025-04-09 to 2025-06-16
Date of Issue:	2025-06-18
Test Result:	**Pass***

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

Keny Xu
EMC Laboratory Manager

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Revision Record				
Version	**Chapter**	**Date**	**Modifier**	**Remark**
01		2025-06-18		Original

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

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2 Test Summary

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

Radio Spectrum Matter Part				
Item	**Standard**	**Method**	**Requirement**	**Result**
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.247	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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Inspection & Testing Services
SGS-CSTC Standards Technical Services Co.,Ltd. Shenzhen Branch Testing Center LLC Laboratory.

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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 7
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

7 Radio Spectrum Matter Test Results 14

7.1 Radiated Emissions which fall in the restricted bands 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 16
7.2 Radiated Spurious Emissions Below 1GHz 25
7.2.1 E.U.T. Operation 25
7.2.2 Test Mode Description 25
7.2.3 Test Setup Diagram 26
7.2.4 Measurement Procedure and Data 26
7.3 Radiated Spurious Emissions Above 1GHz 31
7.3.1 E.U.T. Operation 31
7.3.2 Test Mode Description 31
7.3.3 Test Setup Diagram 31
7.3.4 Measurement Procedure and Data 32
7.4 Conducted Peak Output Power 45
7.4.1 E.U.T. Operation 45
7.4.2 Test Mode Description 45
7.4.3 Test Setup Diagram 45
7.4.4 Measurement Procedure and Data 45

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7.5 20dB Bandwidth 46
7.5.1 E.U.T. Operation 46
7.5.2 Test Mode Description 46
7.5.3 Test Setup Diagram 46
7.5.4 Measurement Procedure and Data 46
7.6 Carrier Frequencies Separation 47
7.6.1 E.U.T. Operation 47
7.6.2 Test Mode Description 47
7.6.3 Test Setup Diagram 48
7.6.4 Measurement Procedure and Data 48
7.7 Hopping Channel Number 49
7.7.1 E.U.T. Operation 49
7.7.2 Test Mode Description 49
7.7.3 Test Setup Diagram 50
7.7.4 Measurement Procedure and Data 50
7.8 Dwell Time 51
7.8.1 E.U.T. Operation 51
7.8.2 Test Mode Description 51
7.8.3 Test Setup Diagram 52
7.8.4 Measurement Procedure and Data 52
7.9 Conducted Band Edges Measurement 53
7.9.1 E.U.T. Operation 53
7.9.2 Test Mode Description 53
7.9.3 Test Setup Diagram 54
7.9.4 Measurement Procedure and Data 54
7.10 Conducted Spurious Emissions 55
7.10.1 E.U.T. Operation 55
7.10.2 Test Mode Description 55
7.10.3 Test Setup Diagram 56
7.10.4 Measurement Procedure and Data 56

8 Test Setup Photo 57

9 EUT Constructional Details (EUT Photos) 57

10 Appendix 58

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4 General Information

4.1 Details of E.U.T.

Power supply:	Lithium Ion Battery: DC 3.85V 70mAh 0.27Wh rechargeable battery which charged by charging case for left earbud and right earbud Lithium Ion Battery: DC 3.85V 475mAh 1.829Wh rechargeable battery which charged by USB port for charging case
Cable(s):	USB cable:25cm unshielded
RF cable(Provided by the customer):	0.5dB
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.4 Dual mode
Modulation Type:	GFSK, pi/4DQPSK, 8DPSK
Number of Channels:	79
Channel Spacing:	1MHz
Spectrum Spread Technology:	Frequency Hopping Spread Spectrum(FHSS)
Antenna Type:	FPC Antenna
Antenna Gain:	Left earbud:-3.6dBi Right earbud:-2.9dBi

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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
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:

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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

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	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	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	2024-07-06	2025-07-05

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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	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	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	2024-08-14	2025-08-13
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	2024-07-06	2025-07-05
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	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	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:-3.6dBi, Right earbud:-2.9dBi

Antenna location: Refer to internal photo.

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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)

Standard Requirement:

The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section.

The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

Compliance for section 15.247(a)(1):

According to Technical Specification, the pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized with nine ones.

> Number of shift register stages: 9

> Length of pseudo-random sequence: 29 -1 = 511 bits

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

Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:

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Each frequency used equally on the average by each transmitter.

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

Compliance for section 15.247(g):

According to Technical Specification, the system transmits the packet with the pseudorandom hopping frequency with a continuous data and the short burst transmission from the Bluetooth system is also transmitted under the frequency hopping system with the pseudorandom hopping frequency system.

Compliance for section 15.247(h):

According to Technical specification, the system incorporates with an adaptive system to detect other user within the spectrum band so that it individually and independently to avoid hopping on the occupied channels.

The system is designed not have the ability to coordinated with other FHSS System in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitter.

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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 (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.		

7.1.1 E.U.T. Operation

Operating Environment:
Temperature: 21.5 °C Humidity: 50.4 % 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.

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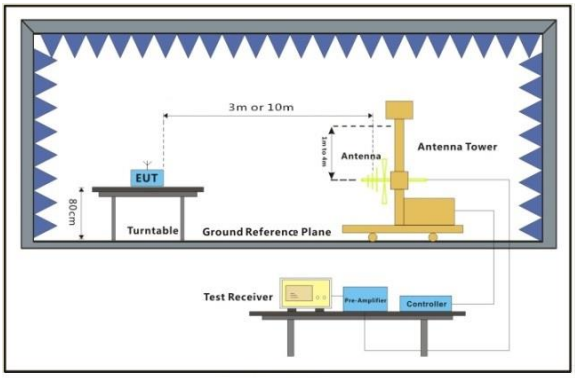
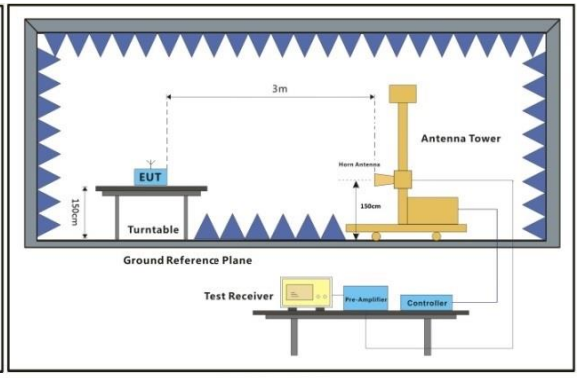
7.1.3 Test Setup Diagram



30MHz-1GHz



Above 1GHz

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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 ⩾1/T (Duty cycle＜98%) or 10Hz (Duty cycle⩾98%) for Average detection (AV) at frequency above 1GHz.

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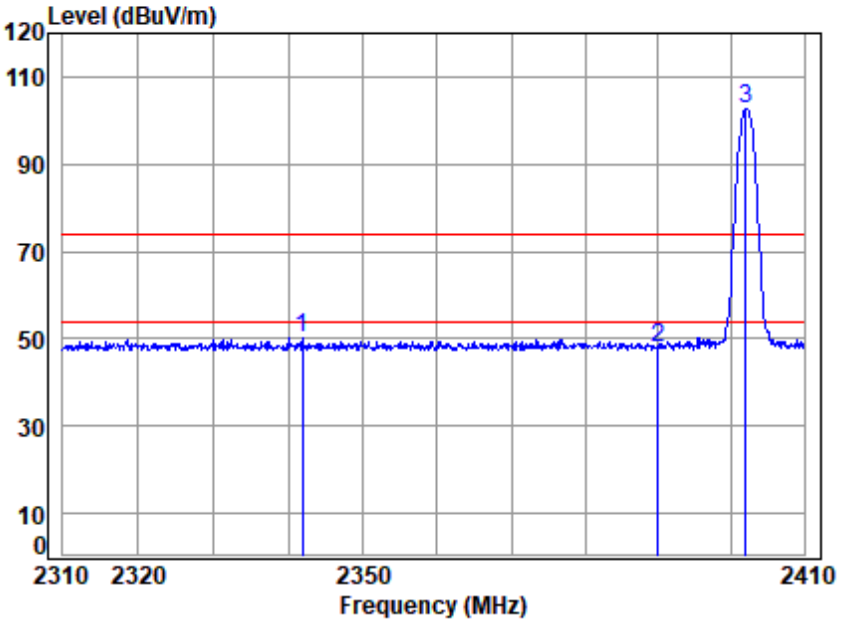
Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01356AT/01357AT
Mode : 2402 Band edge
: BT L

	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	2341.838	6.80	27.28	31.53	47.65	50.20	74.00	-23.80	peak
2	2390.000	6.82	27.46	31.54	45.36	48.10	74.00	-25.90	peak
3 pp	2402.000	6.84	27.50	31.54	99.67	102.47	74.00	28.47	peak

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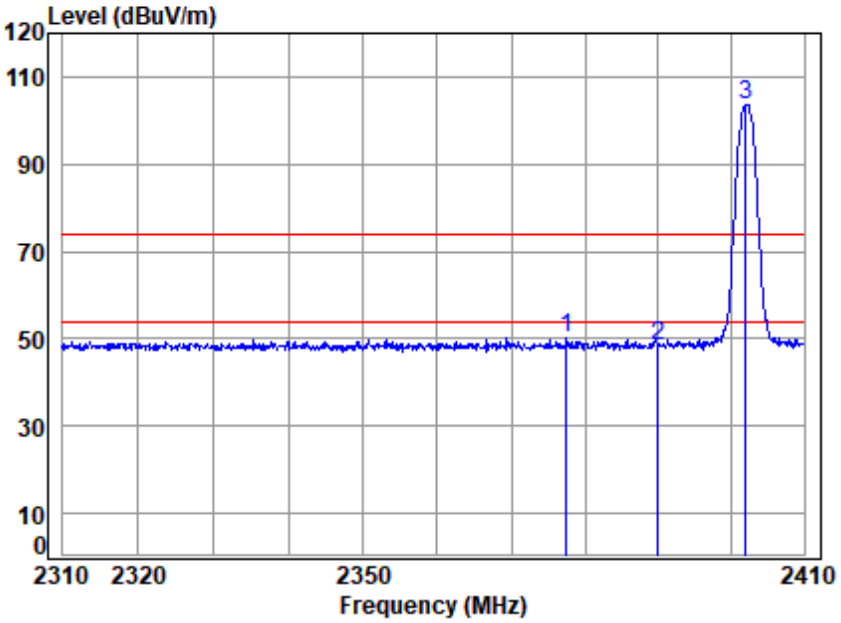
Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low



Condition: 3m VERTICAL
Job No : 01356AT/01357AT
Mode : 2402 Band edge
: BT L

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2377.538	6.82	27.41	31.54	47.43	50.12	74.00	-23.88	peak
2	2390.000	6.82	27.46	31.54	45.77	48.51	74.00	-25.49	peak
3 pp	2402.000	6.84	27.50	31.54	100.86	103.66	74.00	29.66	peak

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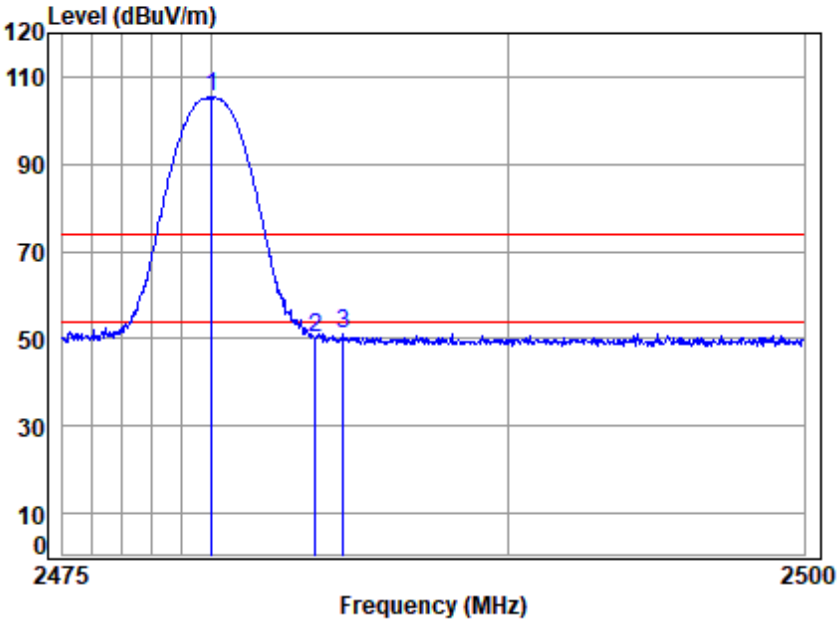
Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:High



Condition: 3m HORIZONTAL
Job No : 01356AT/01357AT
Mode : 2480 Band edge
: BT L

	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 pp	2480.000	7.37	27.78	31.55	101.59	105.19	74.00	31.19	peak
2	2483.500	7.40	27.80	31.55	46.32	49.97	74.00	-24.03	peak
3	2484.420	7.40	27.81	31.55	47.36	51.02	74.00	-22.98	peak

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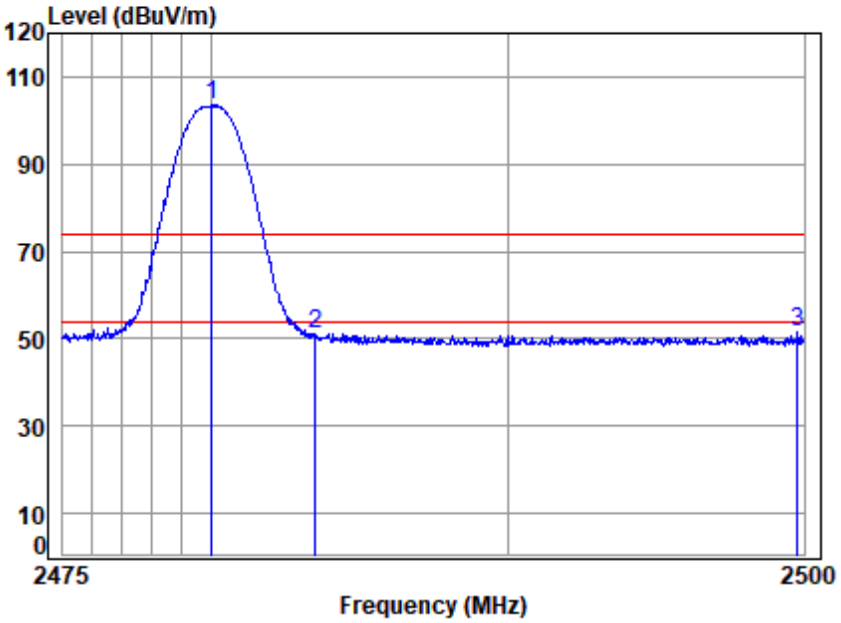
Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High



Condition: 3m VERTICAL
Job No : 01356AT/01357AT
Mode : 2480 Band edge
: BT L

	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 pp	2480.000	7.37	27.78	31.55	99.76	103.36	74.00	29.36	peak
2	2483.500	7.40	27.80	31.55	47.41	51.06	74.00	-22.94	peak
3	2499.774	7.51	27.90	31.55	47.49	51.35	74.00	-22.65	peak

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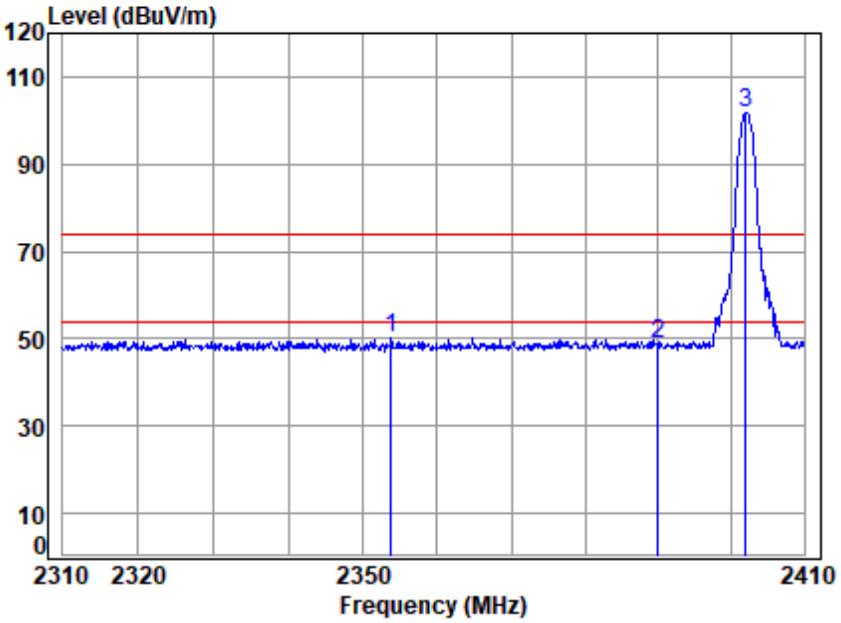
Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01356AT/01357AT
Mode : 2402 Band edge
: BT R

	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	2353.778	6.81	27.32	31.54	47.57	50.16	74.00	-23.84	peak
2	2390.000	6.82	27.46	31.54	46.10	48.84	74.00	-25.16	peak
3 pp	2402.000	6.84	27.50	31.54	98.83	101.63	74.00	27.63	peak

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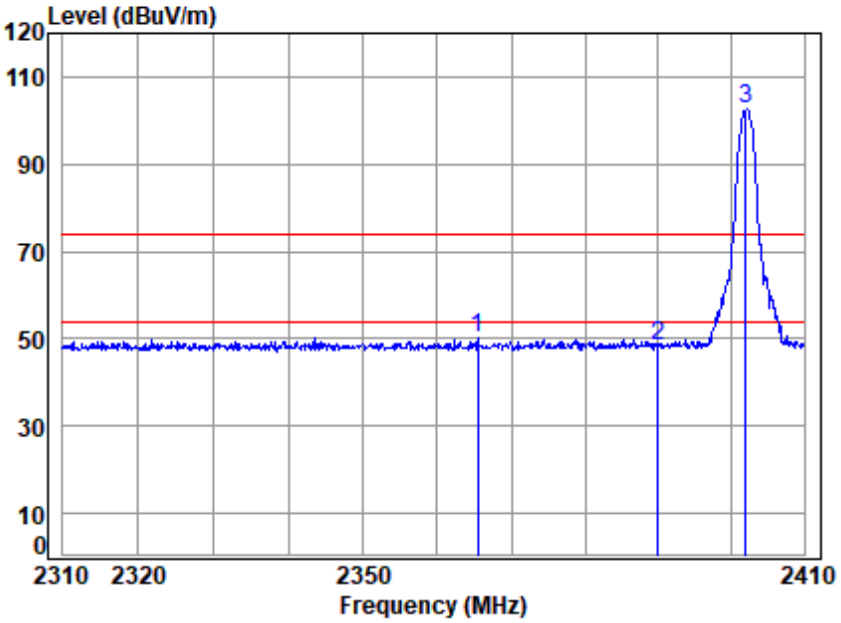
Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low



Condition: 3m VERTICAL
Job No : 01356AT/01357AT
Mode : 2402 Band edge
: BT R

	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	2365.478	6.81	27.36	31.54	47.51	50.14	74.00	-23.86	peak
2	2390.000	6.82	27.46	31.54	45.57	48.31	74.00	-25.69	peak
3 pp	2402.000	6.84	27.50	31.54	99.66	102.46	74.00	28.46	peak

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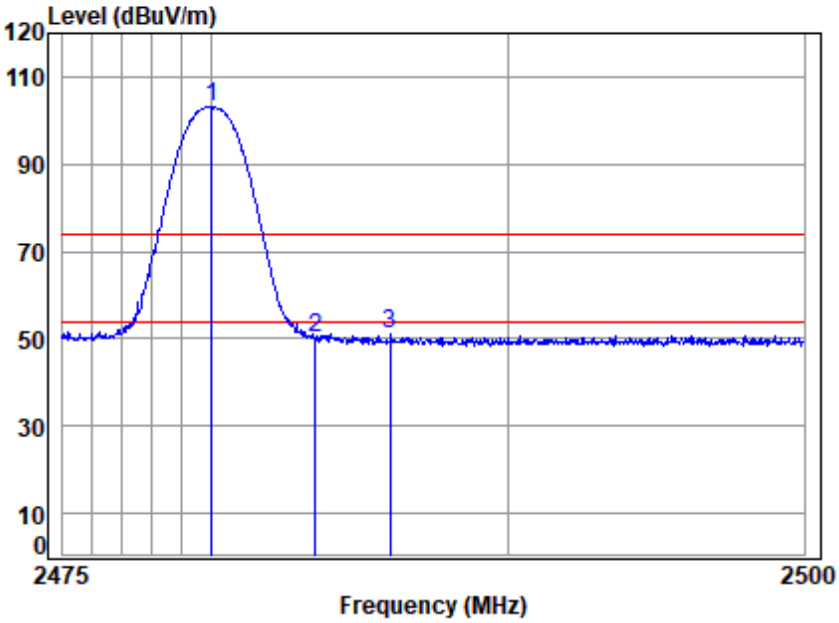
Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:High



Condition: 3m HORIZONTAL
Job No : 01356AT/01357AT
Mode : 2480 Band edge
: BT R

	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 pp	2480.000	7.37	27.78	31.55	99.33	102.93	74.00	28.93	peak
2	2483.500	7.40	27.80	31.55	46.68	50.33	74.00	-23.67	peak
3	2486.019	7.41	27.82	31.55	47.59	51.27	74.00	-22.73	peak

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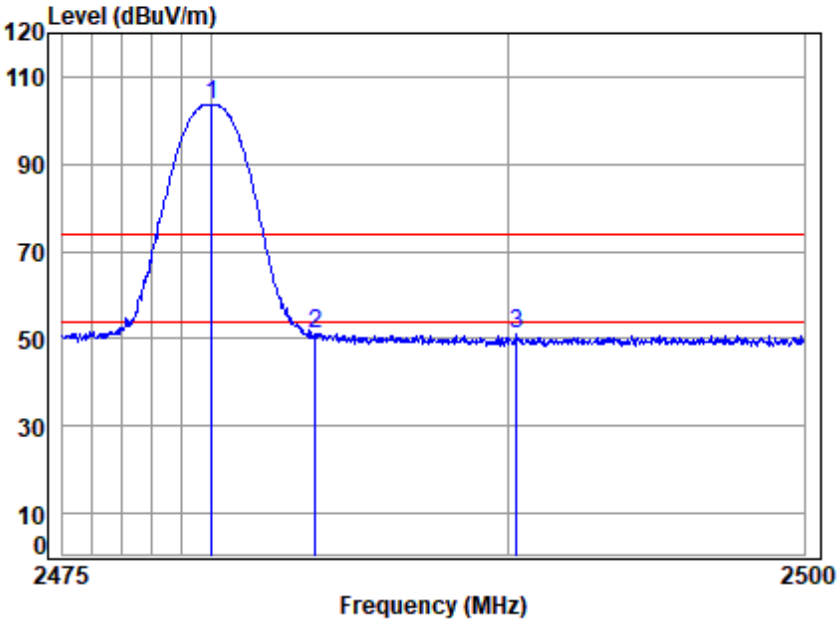
Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:High



Condition: 3m VERTICAL
Job No : 01356AT/01357AT
Mode : 2480 Band edge
: BT R

	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 pp	2480.000	7.37	27.78	31.55	100.01	103.61	74.00	29.61	peak
2	2483.500	7.40	27.80	31.55	47.28	50.93	74.00	-23.07	peak
3	2490.270	7.44	27.84	31.55	47.41	51.14	74.00	-22.86	peak

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7.2 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

7.2.1 E.U.T. Operation

Operating Environment:
Temperature: 23.2 °C Humidity: 45.1 % 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.

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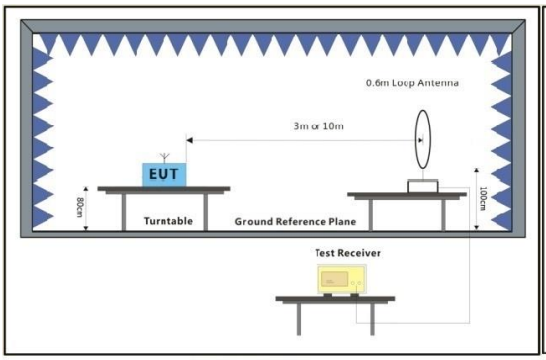
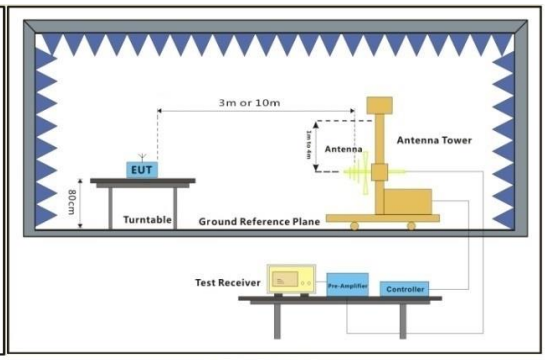
7.2.3 Test Setup Diagram



Below 30MHz



30MHz-1GHz

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 meter semi-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 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.

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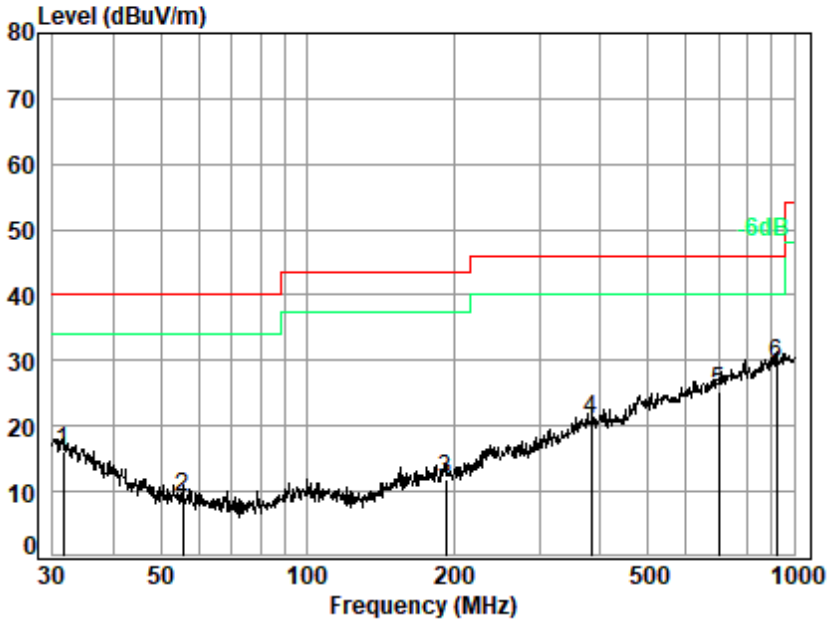
Test Mode: 00; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 01356AT
Test Mode: 00

	Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	31.510	20.50	0.69	27.79	22.71	16.11	40.00	-23.89	QP
2	55.415	11.91	0.91	27.72	24.00	9.10	40.00	-30.90	QP
3	192.419	14.23	1.73	27.20	23.16	11.92	43.50	-31.58	QP
4	383.932	20.90	2.53	27.09	24.54	20.88	46.00	-25.12	QP
5	699.305	25.93	3.54	27.73	23.65	25.39	46.00	-20.61	QP
6 q	919.287	28.17	4.17	26.63	23.67	29.38	46.00	-16.62	QP

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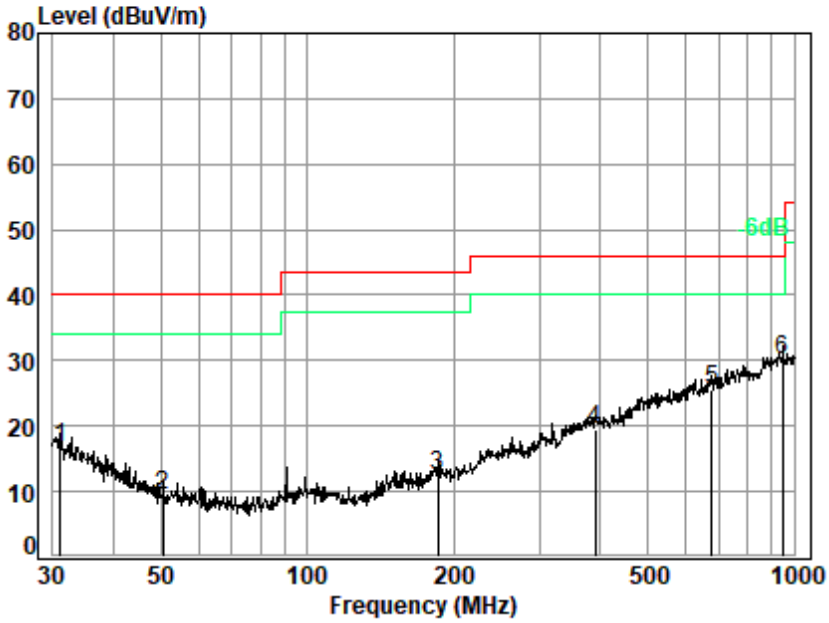
Test Mode: 00; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 01356AT
Test Mode: 00

	Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	31.071	20.71	0.68	27.79	23.19	16.79	40.00	-23.21	QP
2	50.586	12.67	0.87	27.73	23.63	9.44	40.00	-30.56	QP
3	185.788	14.29	1.70	27.23	23.77	12.53	43.50	-30.97	QP
4	390.723	20.75	2.55	27.12	23.28	19.46	46.00	-26.54	QP
5	677.580	25.78	3.48	27.78	24.13	25.61	46.00	-20.39	QP
6 q	948.761	28.23	4.25	26.42	24.12	30.18	46.00	-15.82	QP

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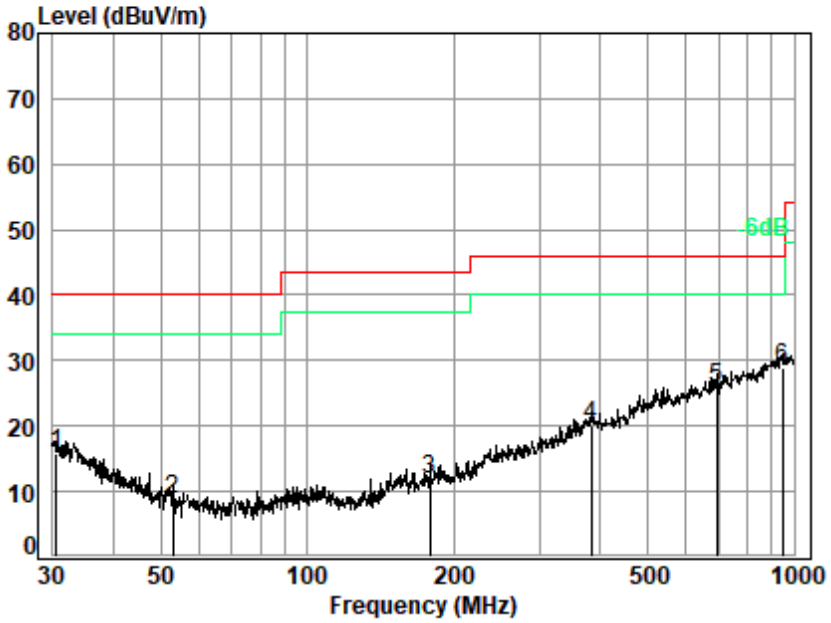
Test Mode: 02; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 01356AT
Test Mode: 02

	Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.531	20.95	0.68	27.79	21.95	15.79	40.00	-24.21	QP
2	52.945	12.30	0.89	27.73	23.35	8.81	40.00	-31.19	QP
3	178.758	14.05	1.67	27.26	23.41	11.87	43.50	-31.63	QP
4	382.588	20.90	2.52	27.09	23.79	20.12	46.00	-25.88	QP
5	694.417	25.82	3.52	27.74	24.40	26.00	46.00	-20.00	QP
6 q	948.761	28.23	4.25	26.42	22.90	28.96	46.00	-17.04	QP

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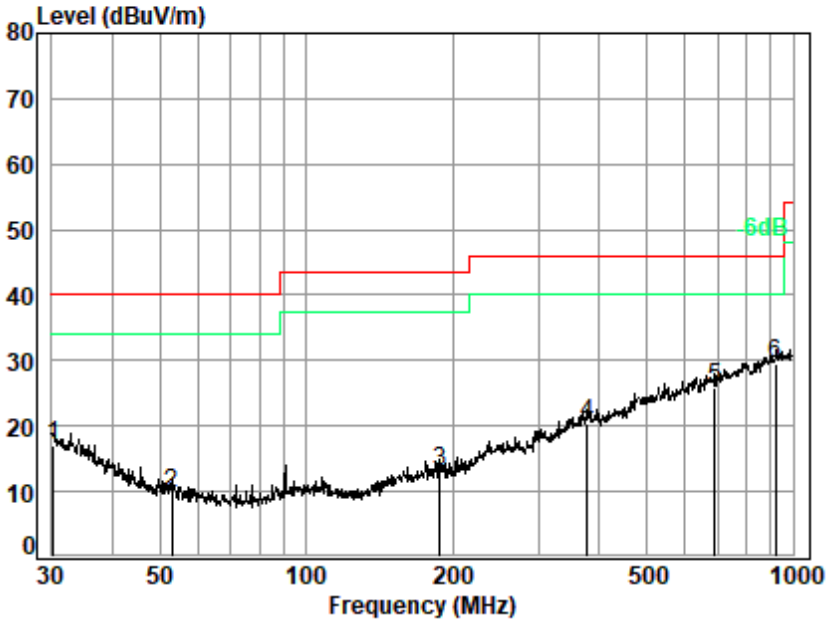
Test Mode: 02; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 01356AT
Test Mode: 02

	Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.211	21.10	0.67	27.79	22.97	16.95	40.00	-23.05	QP
2	52.945	12.30	0.89	27.73	24.34	9.80	40.00	-30.20	QP
3	187.753	14.30	1.71	27.22	24.19	12.98	43.50	-30.52	QP
4	378.584	20.85	2.51	27.07	24.21	20.50	46.00	-25.50	QP
5	691.987	25.74	3.52	27.74	24.43	25.95	46.00	-20.05	QP
6 q	922.516	28.19	4.18	26.60	23.74	29.51	46.00	-16.49	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 (2013) Section 6.6
Measurement Distance: 3m

Limit:

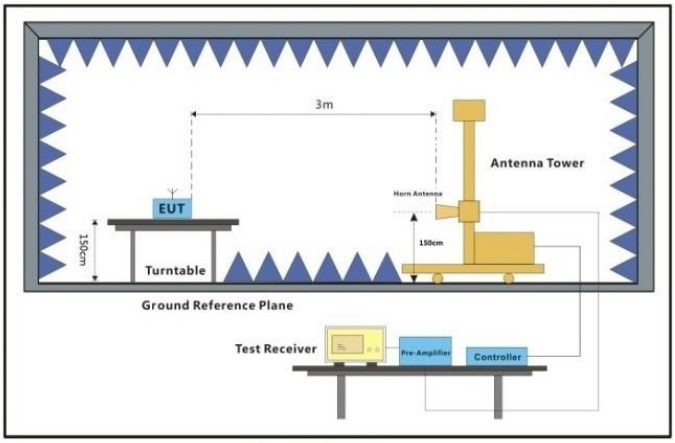
7.3.1 E.U.T. Operation

Operating Environment:
Temperature: 21.7 °C Humidity: 52.9 % 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



Above 1GHz

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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 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.

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 ⩾1/T (Duty cycle＜98%) or 10Hz (Duty cycle⩾98%) for Average detection (AV) at frequency above 1GHz.

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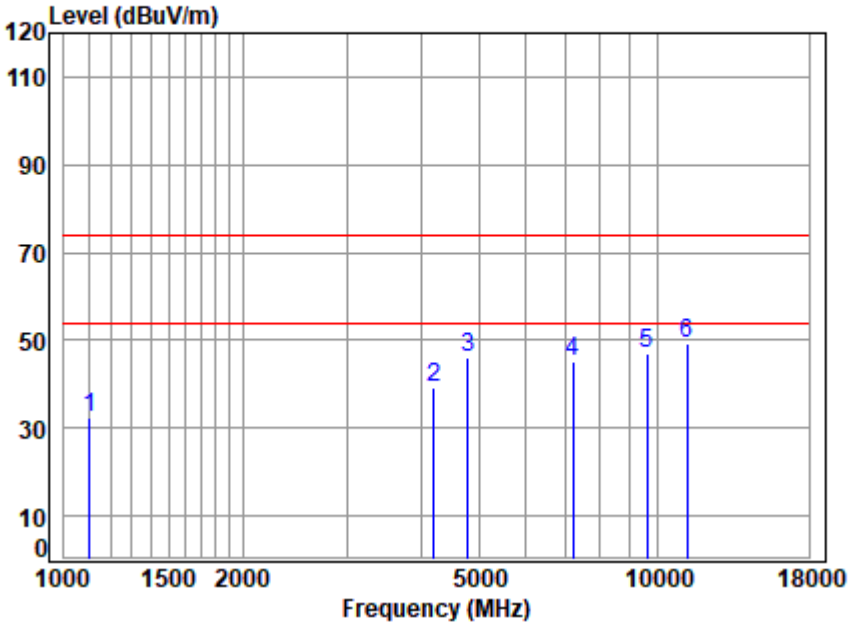
Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01356AT/01357AT
Mode : 2402 TX RSE
: BT L

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1103.264	7.10	25.59	54.70	54.62	32.61	74.00	-41.39	peak
2	4206.011	8.51	30.84	55.74	55.72	39.33	74.00	-34.67	peak
3	4804.000	8.90	31.92	56.16	61.57	46.23	74.00	-27.77	peak
4	7206.000	11.10	36.60	56.54	54.13	45.29	74.00	-28.71	peak
5	9608.000	12.38	38.78	54.45	50.35	47.06	74.00	-26.94	peak
6	pp11237.330	14.30	39.64	53.57	49.09	49.46	74.00	-24.54	peak

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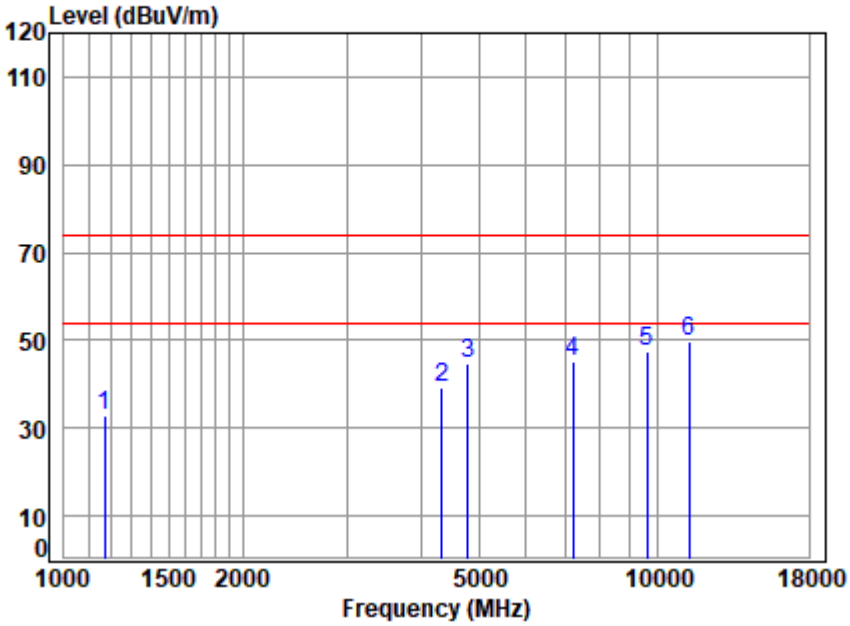
Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low



Condition: 3m VERTICAL
Job No : 01356AT/01357AT
Mode : 2402 TX RSE
: BT L

	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	1172.303	7.17	25.36	54.70	54.81	32.64	74.00	-41.36	peak
2	4341.886	8.49	31.30	55.84	55.14	39.09	74.00	-34.91	peak
3	4804.000	8.90	31.92	56.16	59.98	44.64	74.00	-29.36	peak
4	7206.000	11.10	36.60	56.54	53.85	45.01	74.00	-28.99	peak
5	9608.000	12.38	38.78	54.45	50.95	47.66	74.00	-26.34	peak
6	pp11302.480	14.39	39.70	53.59	49.16	49.66	74.00	-24.34	Peak

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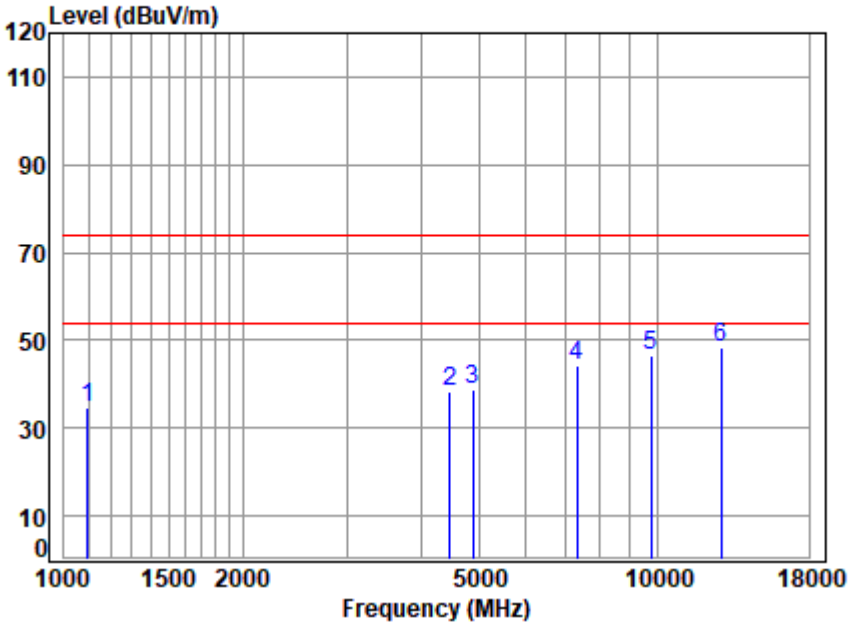
Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Condition: 3m HORIZONTAL
Job No : 01356AT/01357AT
Mode : 2441 TX RSE
: BT L

	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	1096.904	7.10	25.59	54.70	56.80	34.79	74.00	-39.21	peak
2	4469.214	8.55	31.48	55.93	54.39	38.49	74.00	-35.51	peak
3	4882.000	8.98	32.16	56.22	54.06	38.98	74.00	-35.02	peak
4	7323.000	11.12	36.75	56.44	52.90	44.33	74.00	-29.67	peak
5	9764.000	12.86	38.60	54.31	49.38	46.53	74.00	-27.47	peak
6	pp12798.240	15.15	40.30	54.36	47.29	48.38	74.00	-25.62	peak

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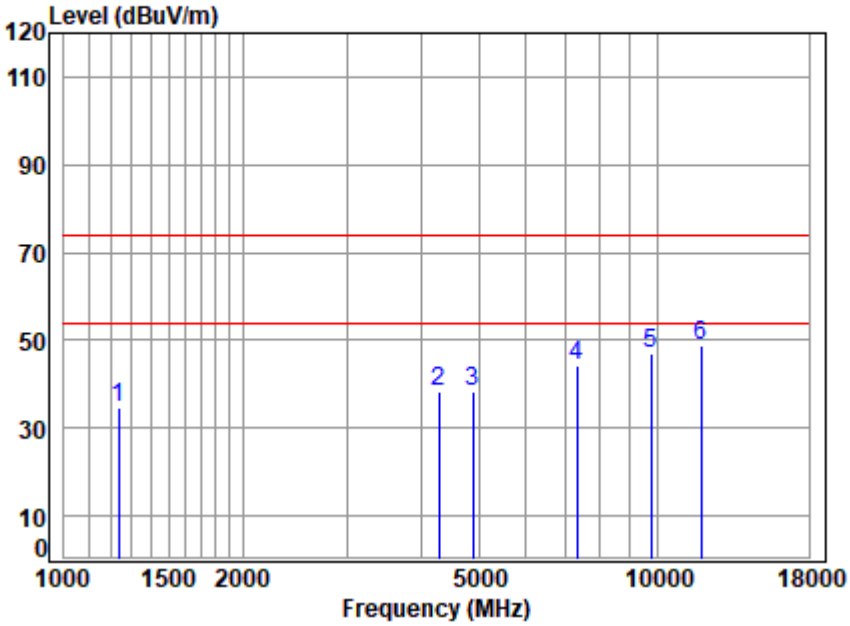
Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:middle



Condition: 3m VERTICAL
Job No : 01356AT/01357AT
Mode : 2441 TX RSE
: BT L

	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	1234.909	7.18	25.30	54.70	56.75	34.53	74.00	-39.47	peak
2	4279.589	8.46	31.22	55.80	54.56	38.44	74.00	-35.56	peak
3	4882.000	8.98	32.16	56.22	53.58	38.50	74.00	-35.50	peak
4	7323.000	11.12	36.75	56.44	52.75	44.18	74.00	-29.82	peak
5	9764.000	12.86	38.60	54.31	50.07	47.22	74.00	-26.78	peak
6	pp11871.710	14.63	39.67	53.76	48.07	48.61	74.00	-25.39	peak

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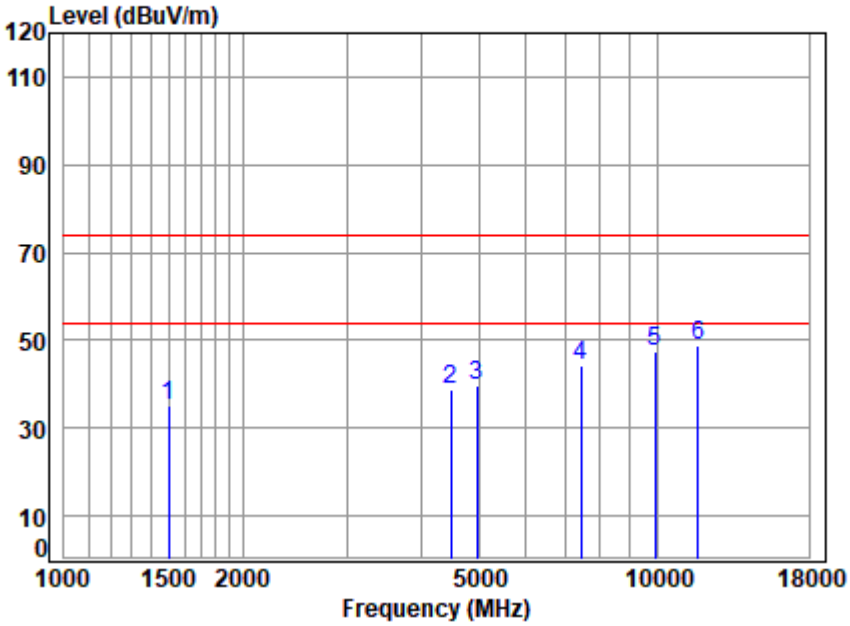
Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:High



Condition: 3m HORIZONTAL
Job No : 01356AT/01357AT
Mode : 2480 TX RSE
: BT L

	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	1498.781	7.22	24.90	54.70	57.55	34.97	74.00	-39.03	peak
2	4482.150	8.56	31.53	55.94	54.65	38.80	74.00	-35.20	peak
3	4960.000	9.07	32.20	56.27	54.78	39.78	74.00	-34.22	peak
4	7440.000	11.08	36.78	56.35	52.87	44.38	74.00	-29.62	peak
5	9920.000	12.73	38.90	54.17	49.79	47.25	74.00	-26.75	peak
6	pp11701.380	14.39	39.50	53.71	48.79	48.97	74.00	-25.03	peak

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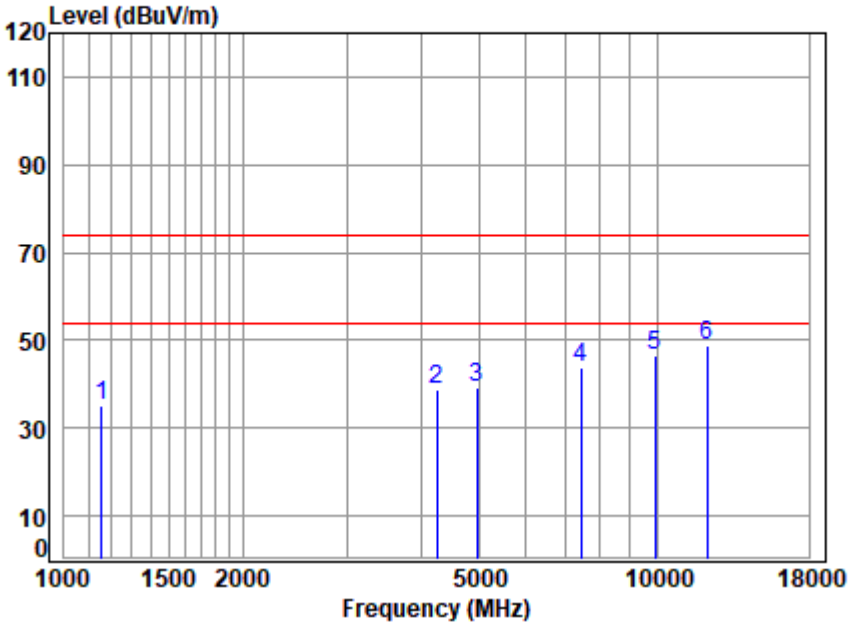
Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High



Condition: 3m VERTICAL
Job No : 01356AT/01357AT
Mode : 2480 TX RSE
: BT L

	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	1155.483	7.15	25.39	54.70	57.19	35.03	74.00	-38.97	peak
2	4242.641	8.48	31.06	55.77	55.09	38.86	74.00	-35.14	peak
3	4960.000	9.07	32.20	56.27	54.14	39.14	74.00	-34.86	peak
4	7440.000	11.08	36.78	56.35	52.50	44.01	74.00	-29.99	peak
5	9920.000	12.73	38.90	54.17	49.29	46.75	74.00	-27.25	peak
6	pp12114.350	14.38	39.73	53.88	48.48	48.71	74.00	-25.29	peak

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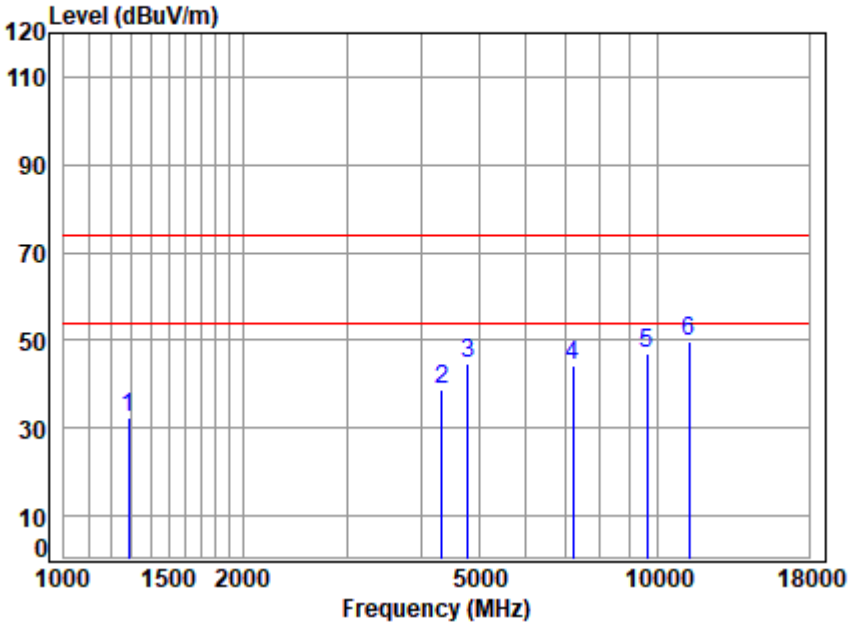
Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01356AT/01357AT
Mode : 2402 TX RSE
: BT R

	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	1285.904	7.16	25.23	54.70	54.76	32.45	74.00	-41.55	peak
2	4341.886	8.49	31.30	55.84	54.77	38.72	74.00	-35.28	peak
3	4804.000	8.90	31.92	56.16	60.11	44.77	74.00	-29.23	peak
4	7206.000	11.10	36.60	56.54	53.03	44.19	74.00	-29.81	peak
5	9608.000	12.38	38.78	54.45	50.45	47.16	74.00	-26.84	peak
6	pp11302.480	14.39	39.70	53.59	49.23	49.73	74.00	-24.27	peak

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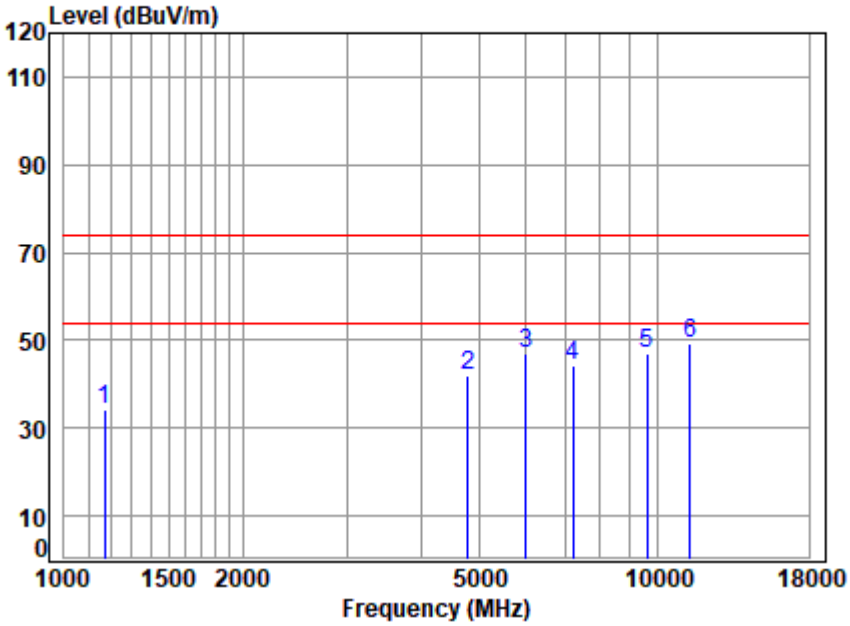
Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low



Condition: 3m VERTICAL
Job No : 01356AT/01357AT
Mode : 2402 TX RSE
: BT R

	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	1172.303	7.17	25.36	54.70	56.20	34.03	74.00	-39.97	peak
2	4804.000	8.90	31.92	56.16	57.47	42.13	74.00	-31.87	peak
3	6001.626	10.05	33.80	56.90	60.05	47.00	74.00	-27.00	Peak
4	7206.000	11.10	36.60	56.54	53.12	44.28	74.00	-29.72	peak
5	9608.000	12.38	38.78	54.45	50.32	47.03	74.00	-26.97	peak
6	pp11368.000	14.20	39.70	53.61	48.92	49.21	74.00	-24.79	peak

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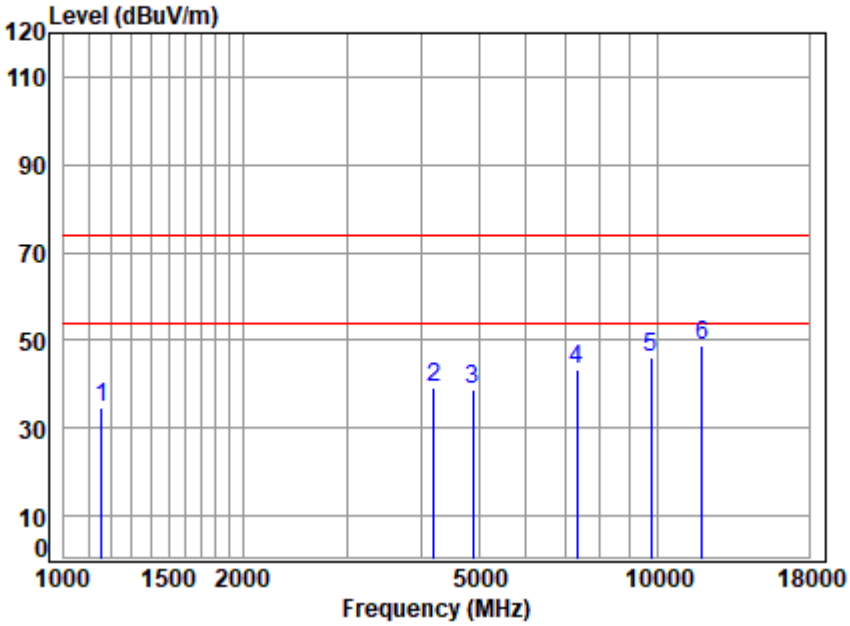
Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Condition: 3m HORIZONTAL
Job No : 01356AT/01357AT
Mode : 2441 TX RSE
: BT R

	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	1155.483	7.15	25.39	54.70	56.74	34.58	74.00	-39.42	peak
2	4206.011	8.51	30.84	55.74	55.47	39.08	74.00	-34.92	peak
3	4882.000	8.98	32.16	56.22	53.71	38.63	74.00	-35.37	peak
4	7323.000	11.12	36.75	56.44	51.95	43.38	74.00	-30.62	peak
5	9764.000	12.86	38.60	54.31	49.01	46.16	74.00	-27.84	peak
6	pp11906.070	14.62	39.71	53.77	48.25	48.81	74.00	-25.19	peak

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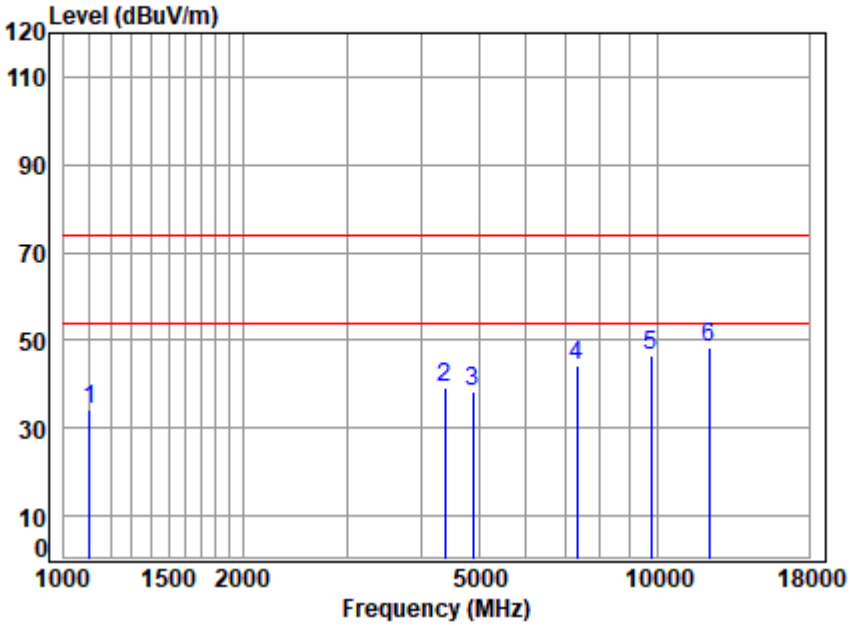
Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:middle



Condition: 3m VERTICAL
Job No : 01356AT/01357AT
Mode : 2441 TX RSE
: BT R

	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	1106.457	7.11	25.57	54.70	56.42	34.40	74.00	-39.60	peak
2	4379.699	8.52	31.24	55.87	55.21	39.10	74.00	-34.90	peak
3	4882.000	8.98	32.16	56.22	53.39	38.31	74.00	-35.69	peak
4	7323.000	11.12	36.75	56.44	52.62	44.05	74.00	-29.95	peak
5	9764.000	12.86	38.60	54.31	49.17	46.32	74.00	-27.68	peak
6	pp12219.850	14.54	39.88	53.95	48.09	48.56	74.00	-25.44	peak

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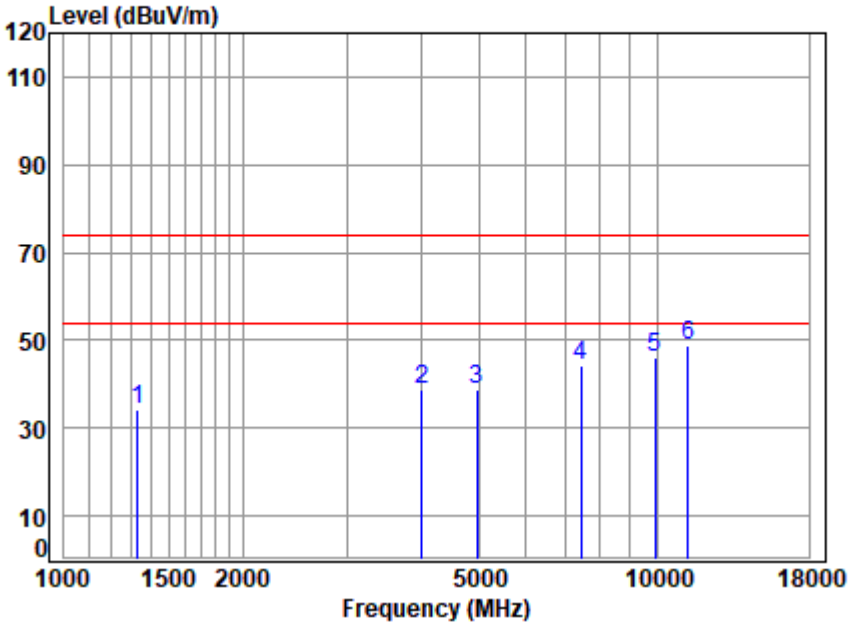
Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:High



Condition: 3m HORIZONTAL
Job No : 01356AT/01357AT
Mode : 2480 TX RSE
: BT R

	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	1331.288	7.17	25.14	54.70	56.58	34.19	74.00	-39.81	peak
2	4004.339	8.13	30.21	55.60	56.09	38.83	74.00	-35.17	peak
3	4960.000	9.07	32.20	56.27	53.74	38.74	74.00	-35.26	peak
4	7440.000	11.08	36.78	56.35	52.71	44.22	74.00	-29.78	peak
5	9920.000	12.73	38.90	54.17	48.55	46.01	74.00	-27.99	peak
6	pp11269.860	14.35	39.67	53.58	48.47	48.91	74.00	-25.09	peak

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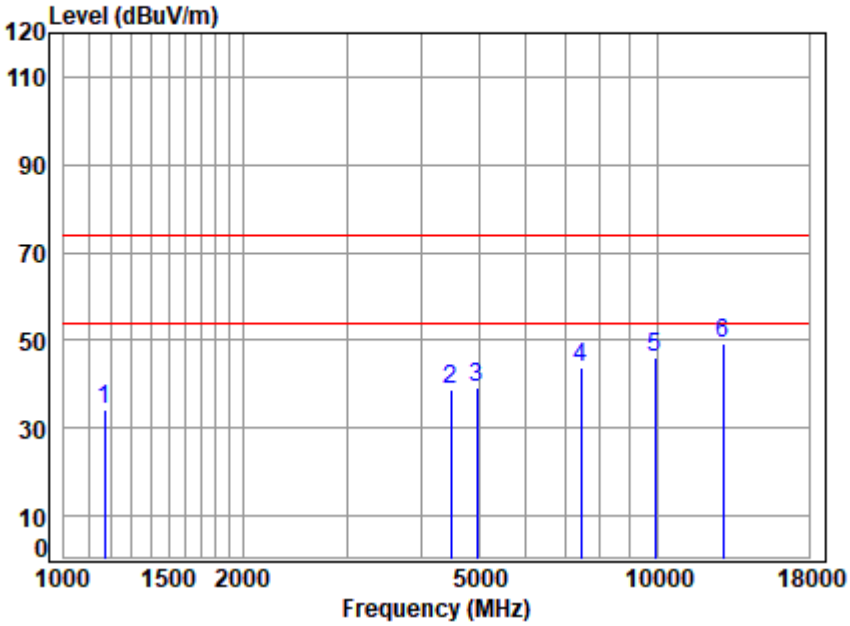
Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:High



Condition: 3m VERTICAL
Job No : 01356AT/01357AT
Mode : 2480 TX RSE
: BT R

	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	1172.303	7.17	25.36	54.70	56.18	34.01	74.00	-39.99	peak
2	4495.125	8.56	31.58	55.95	54.81	39.00	74.00	-35.00	peak
3	4960.000	9.07	32.20	56.27	54.28	39.28	74.00	-34.72	peak
4	7440.000	11.08	36.78	56.35	52.30	43.81	74.00	-30.19	peak
5	9920.000	12.73	38.90	54.17	48.53	45.99	74.00	-28.01	peak
6	pp12909.700	15.24	40.39	54.44	48.22	49.41	74.00	-24.59	peak

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7.4 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: ≤20.97dBm

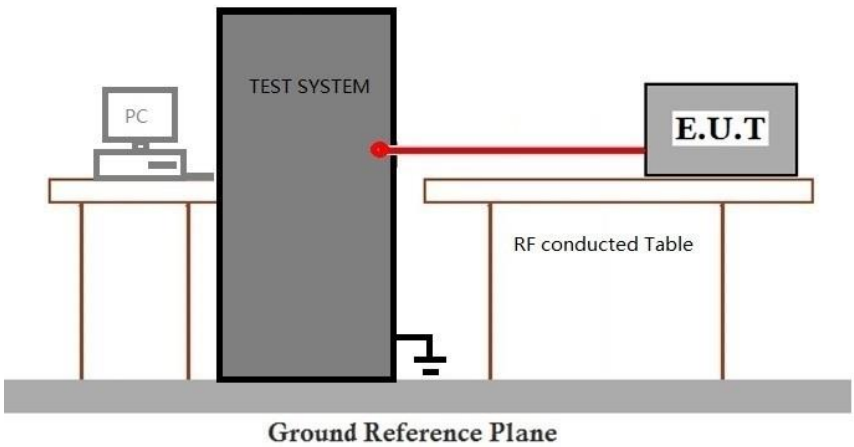
7.4.1 E.U.T. Operation

Operating Environment:
Temperature: 23.7 °C Humidity: 41.5 % 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

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7.5 20dB Bandwidth

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

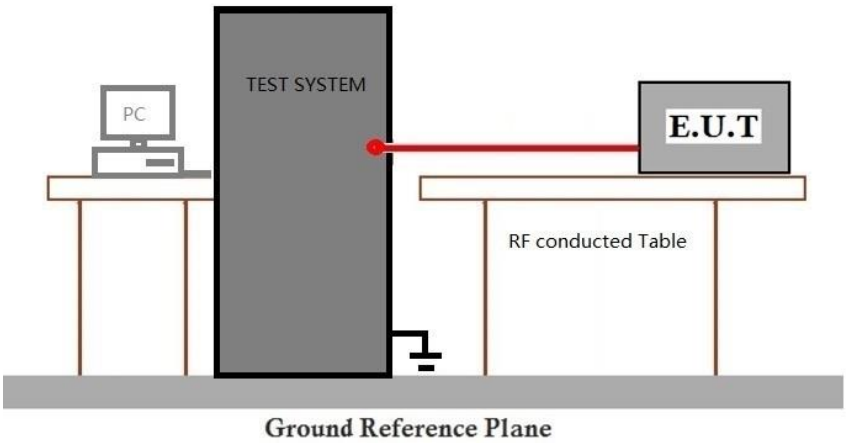
7.5.1 E.U.T. Operation

Operating Environment:
Temperature: 23.7 °C Humidity: 41.5 % 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(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

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7.6 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.

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23.7 °C Humidity: 41.5 % RH Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

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

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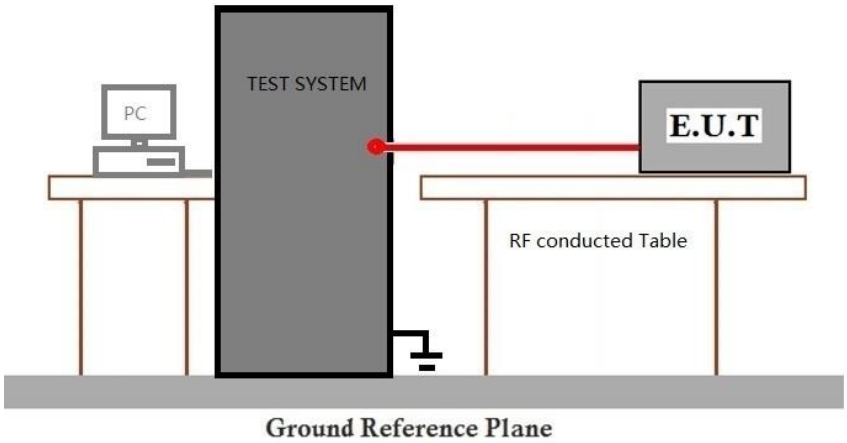
7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

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7.7 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

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 23.7 °C Humidity: 41.5 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

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

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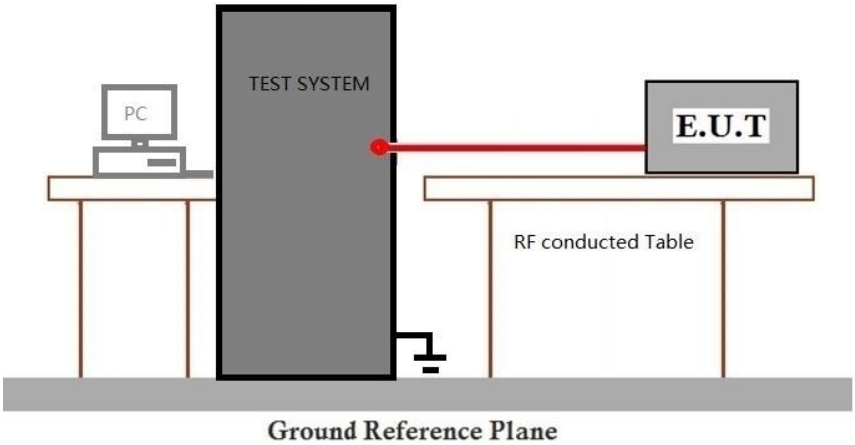
7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

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7.8 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

7.8.1 E.U.T. Operation

Operating Environment:
Temperature: 23.7 °C Humidity: 41.5 % RH Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

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

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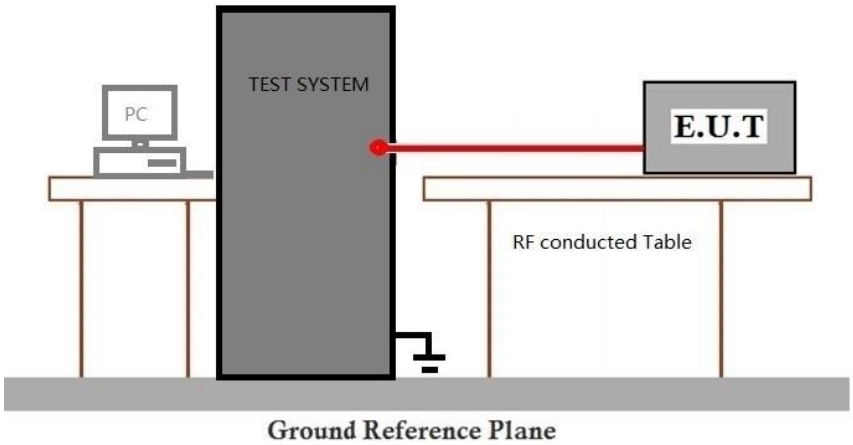
7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

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7.9 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).

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 23.7 °C Humidity: 41.5 % RH Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

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

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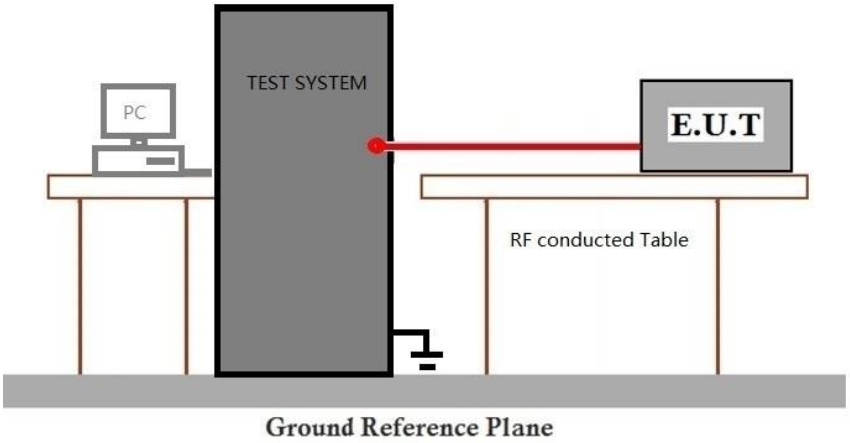
7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

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7.10 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).

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 23.7 °C Humidity: 41.5 % 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(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
Final test	02	TX_non-Hop mode(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

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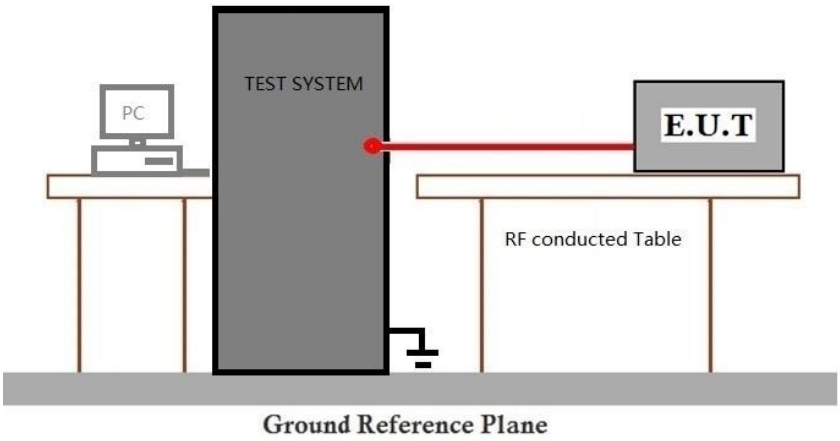
7.10.3 Test Setup Diagram



7.10.4 Measurement Procedure and Data

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8 Test Setup Photo

Refer to Setup Photo for SZCR2504001356AT

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2504001356AT

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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	0.929	/	Pass
		2441	DH5	1	0.939	/	Pass
		2480	DH5	1	0.922	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.128	/	Pass
		2441	2DH5	1	1.125	/	Pass
		2480	2DH5	1	1.125	/	Pass
8DPSK	SISO	2402	3DH5	1	1.137	/	Pass
		2441	3DH5	1	1.146	/	Pass
		2480	3DH5	1	1.138	/	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	1.037	/	Pass
		2441	DH5	1	1.043	/	Pass
		2480	DH5	1	1.045	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.203	/	Pass
		2441	2DH5	1	1.204	/	Pass
		2480	2DH5	1	1.208	/	Pass
8DPSK	SISO	2402	3DH5	1	1.215	/	Pass
		2441	3DH5	1	1.252	/	Pass
		2480	3DH5	1	1.219	/	Pass

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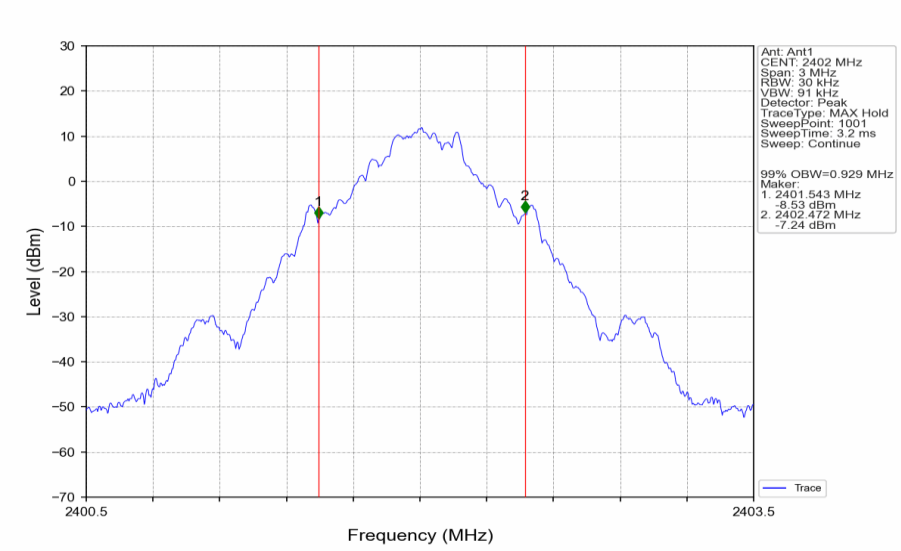
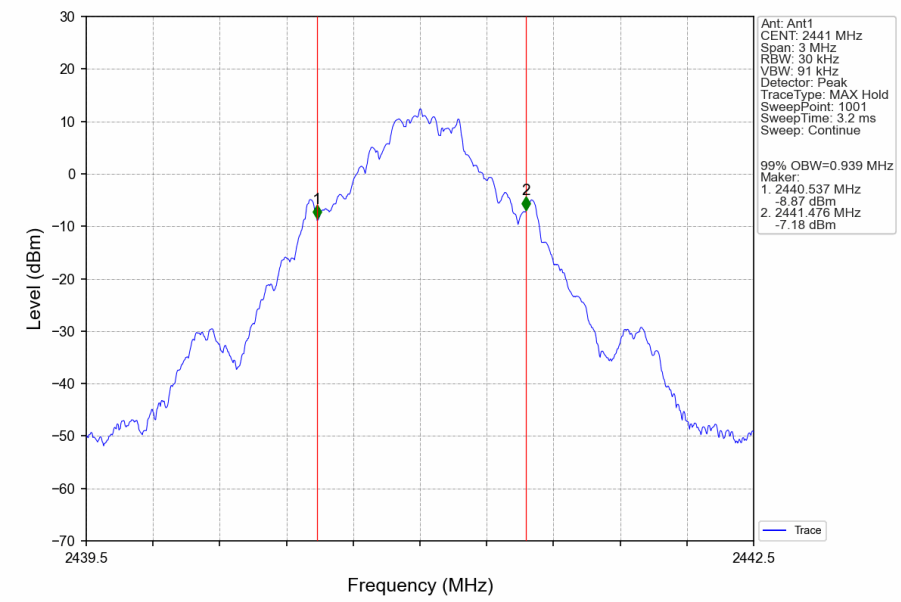
1.2 Test Graph

1.2.1 OBW

GFSK_DH5_LCH_2402MHz_Ant1_NTNV



GFSK_DH5_MCH_2441MHz_Ant1_NTNV



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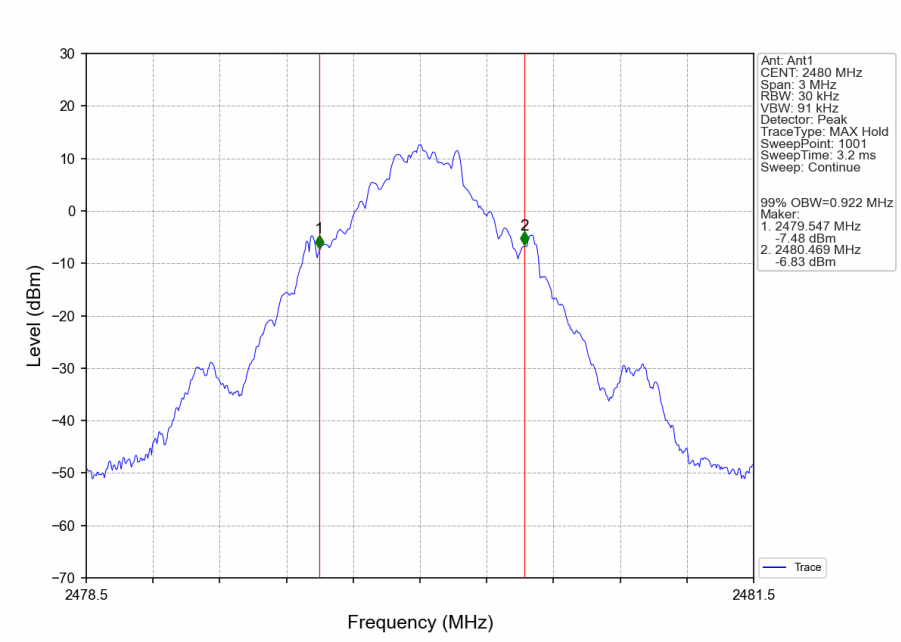
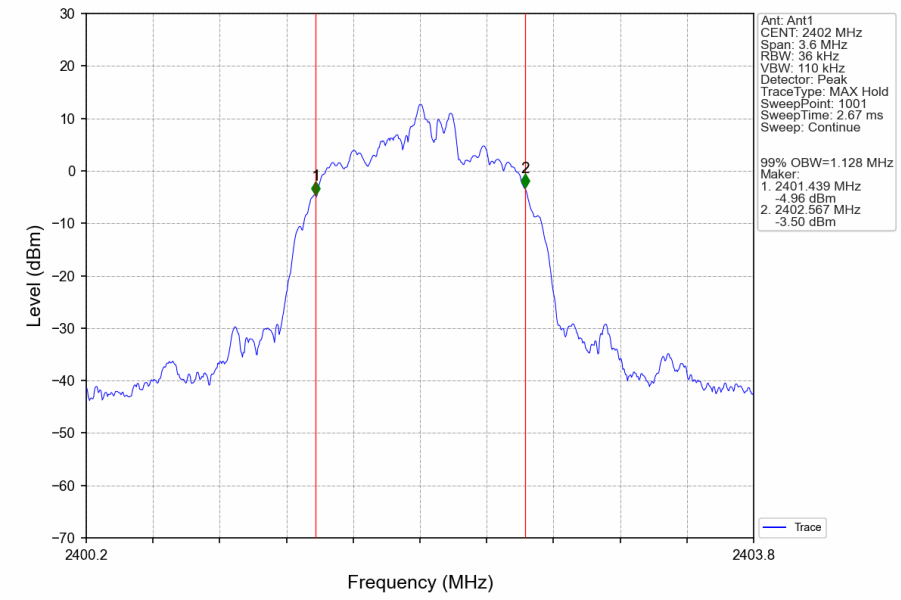
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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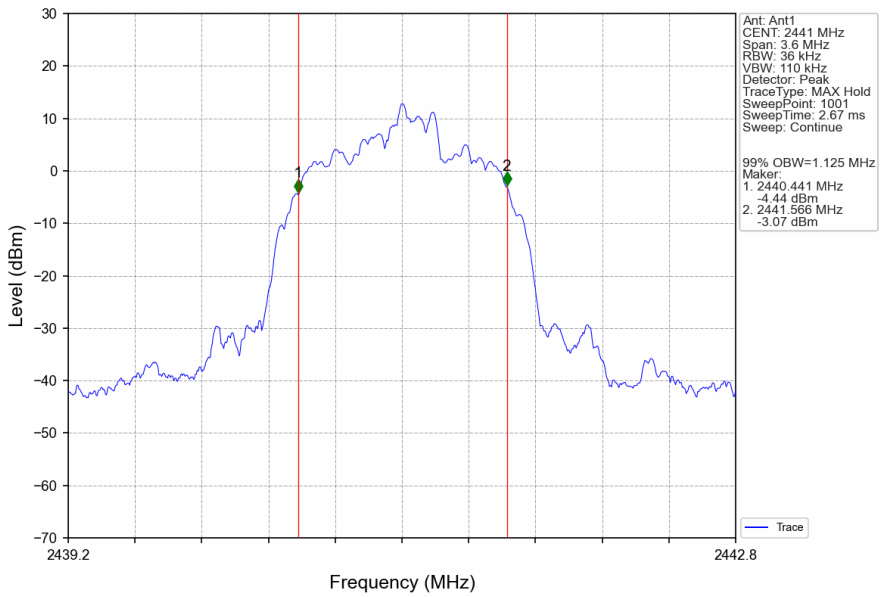
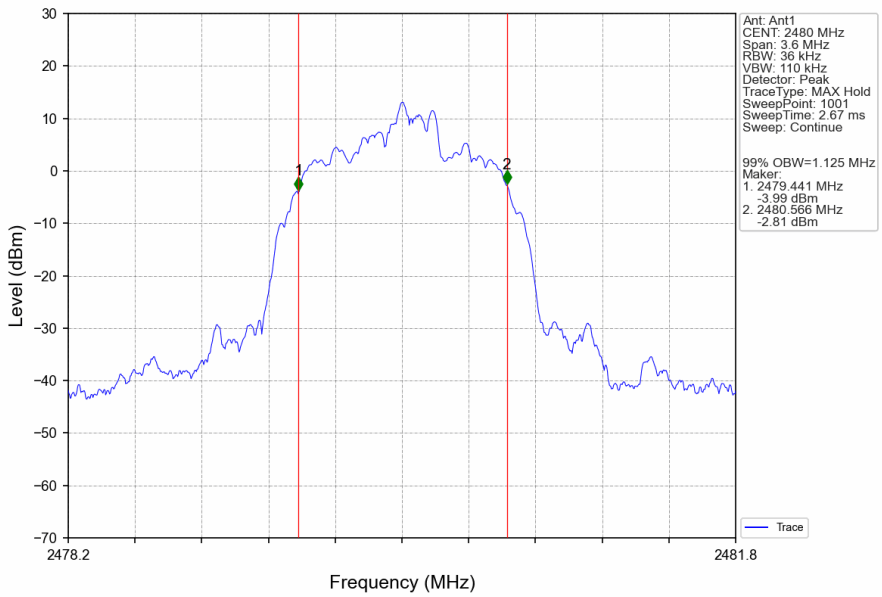
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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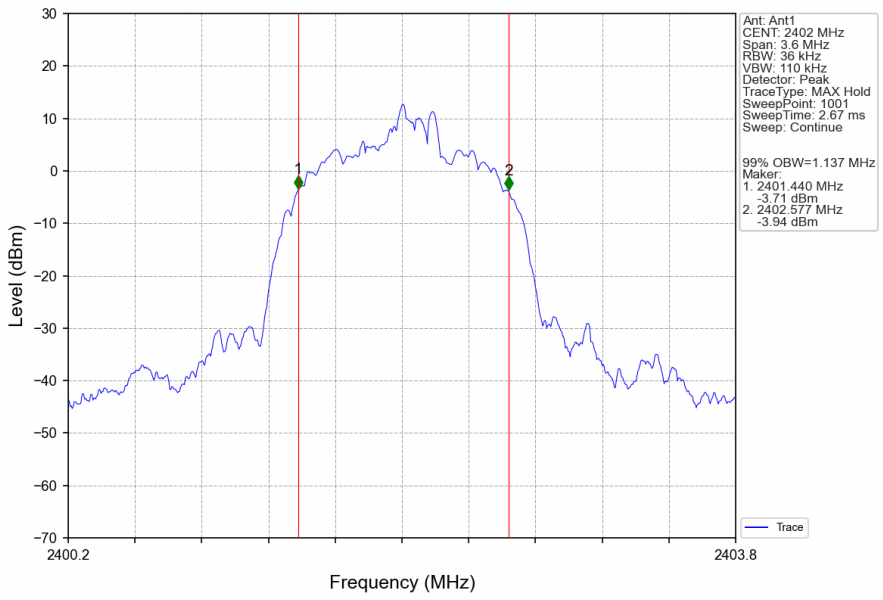
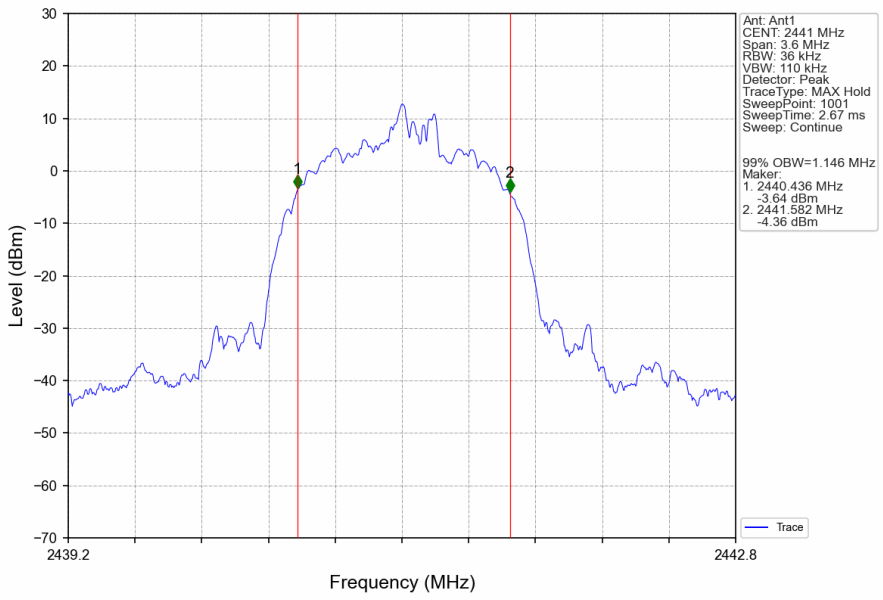
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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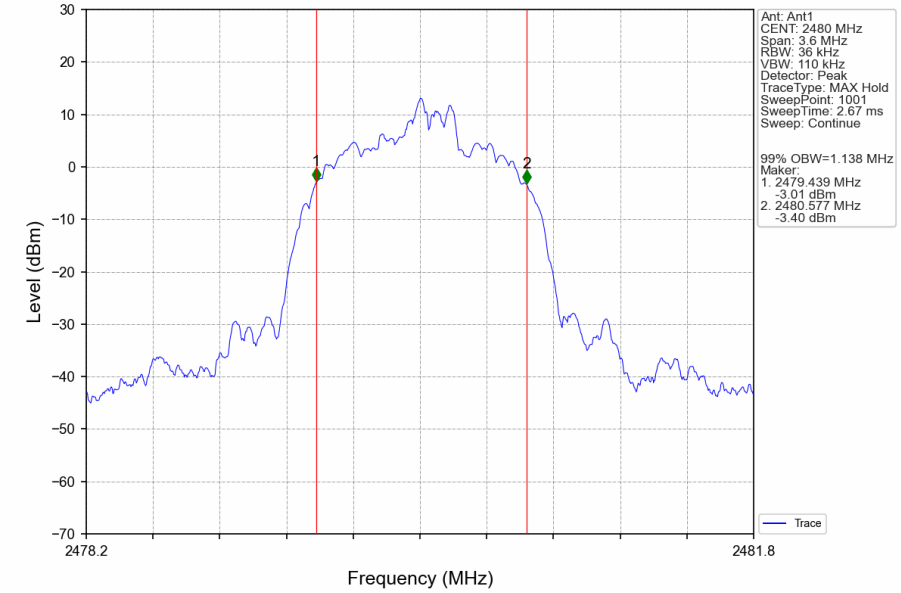
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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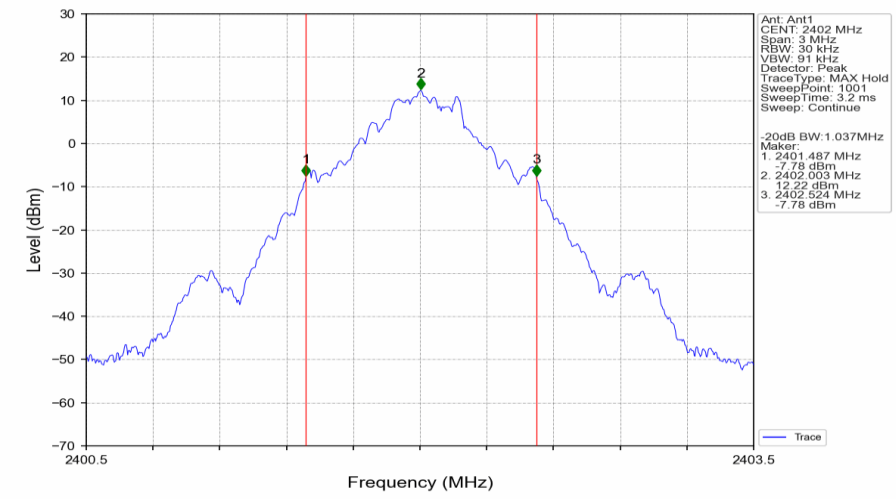
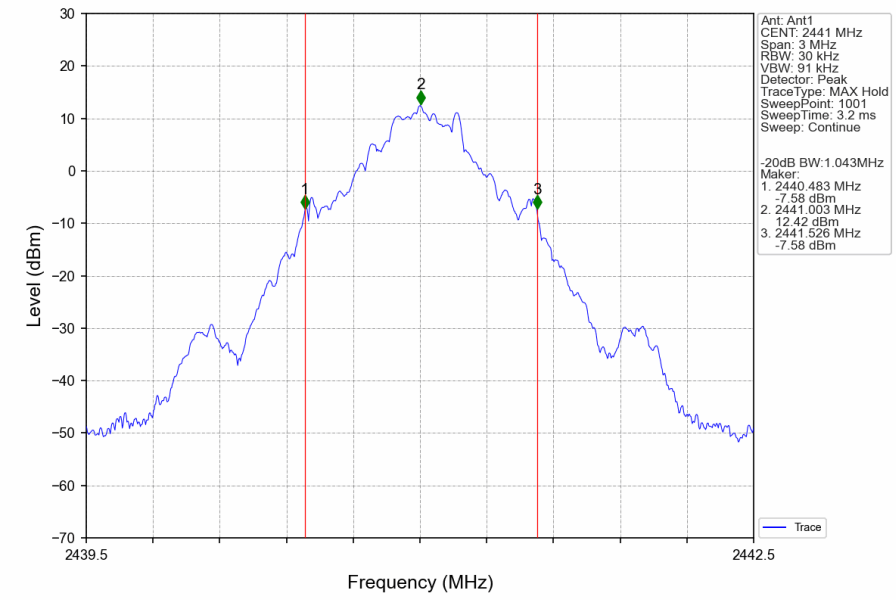
1.2.2 20dB BW

GFSK_DH5_LCH_2402MHz_Ant1_NTNV



GFSK_DH5_MCH_2441MHz_Ant1_NTNV



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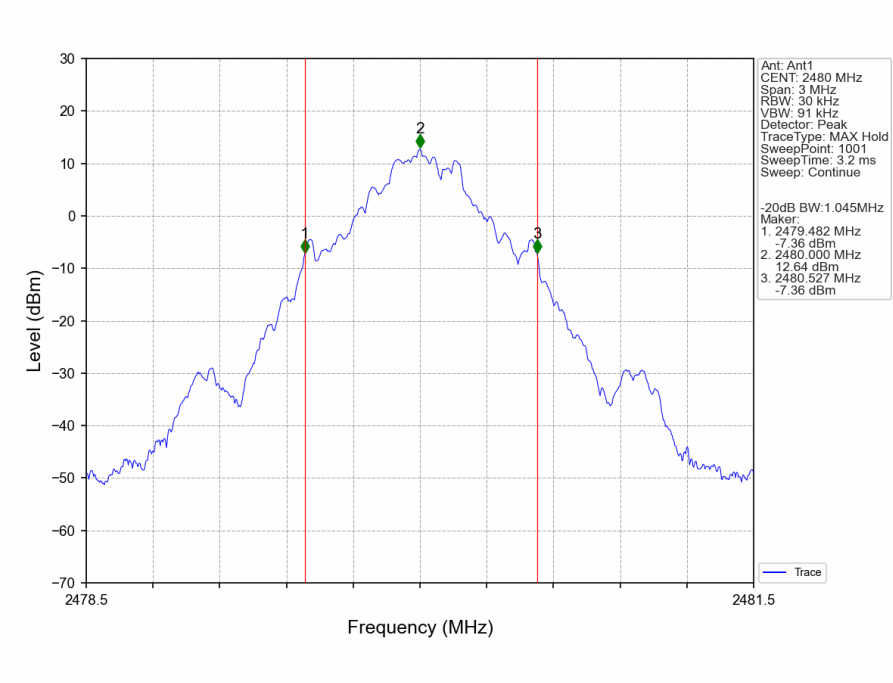
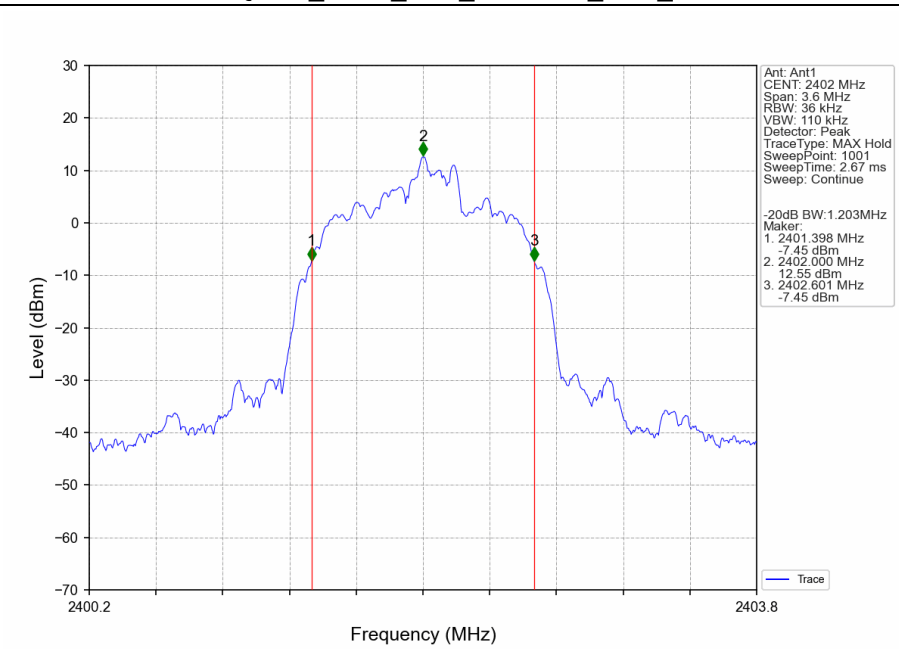


Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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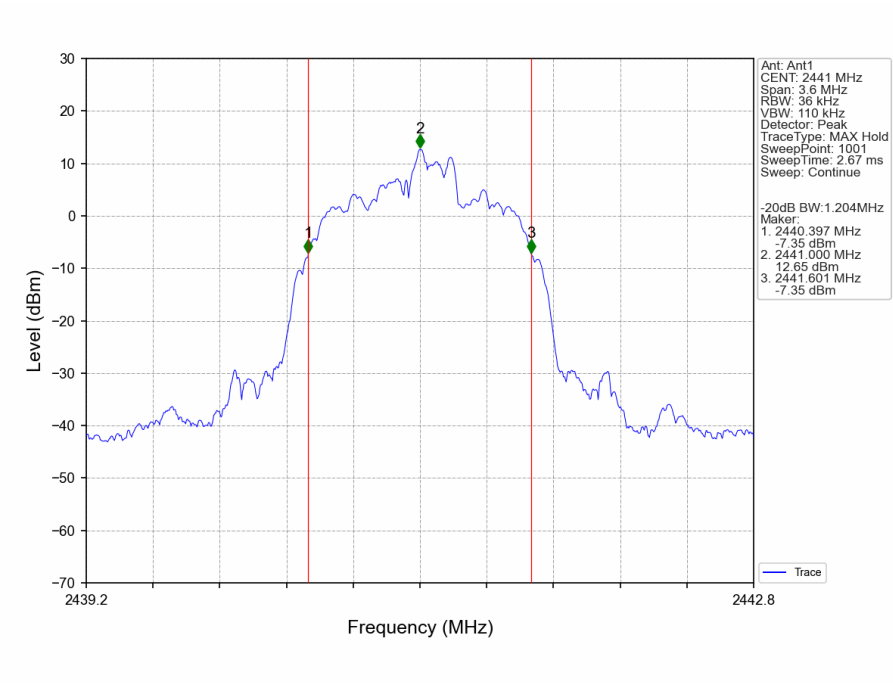
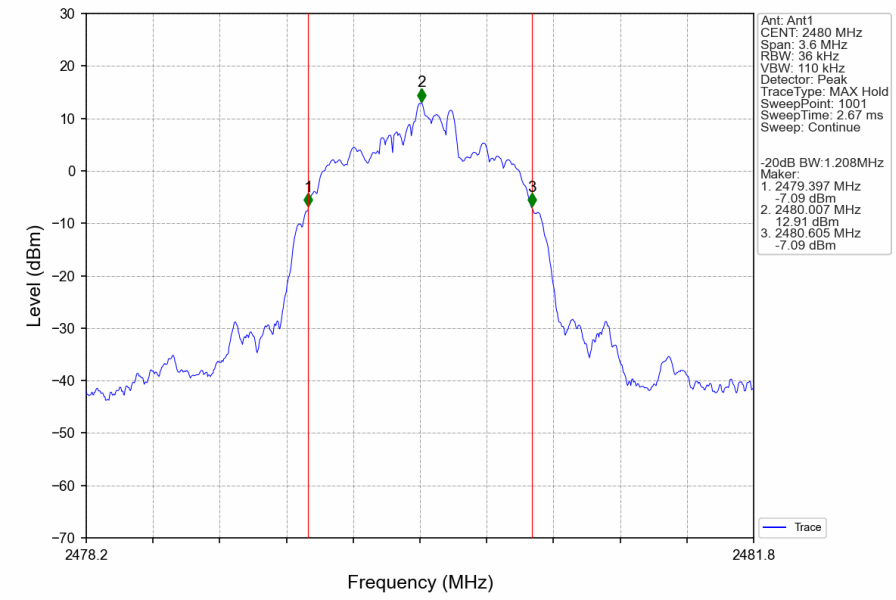


Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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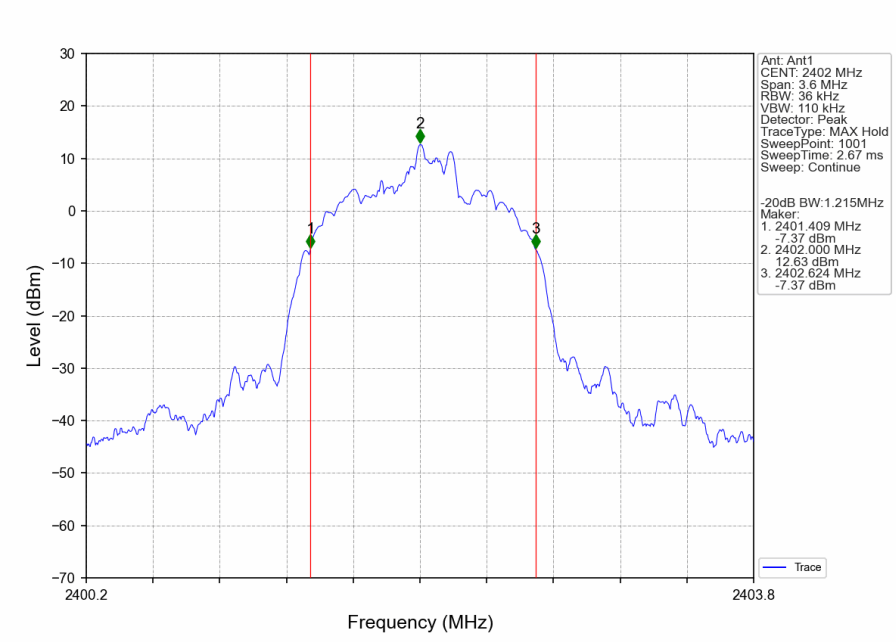
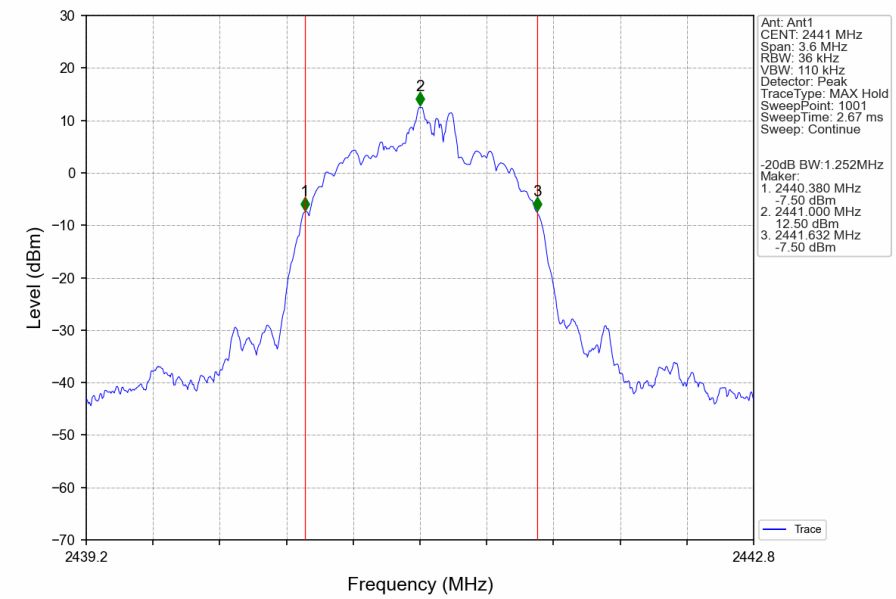


8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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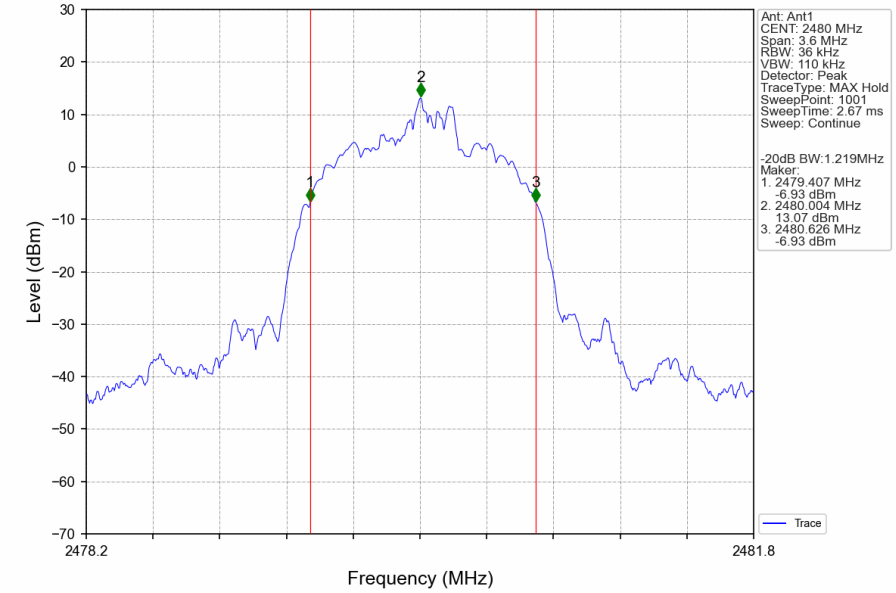
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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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	13.46	<=20.97	Pass
		2441	DH5	13.65	<=20.97	Pass
		2480	DH5	14.02	<=20.97	Pass
Pi/4DQPSK	SISO	2402	2DH5	13.42	<=20.97	Pass
		2441	2DH5	13.65	<=20.97	Pass
		2480	2DH5	14.02	<=20.97	Pass
8DPSK	SISO	2402	3DH5	13.40	<=20.97	Pass
		2441	3DH5	13.62	<=20.97	Pass
		2480	3DH5	14.01	<=20.97	Pass
Note1: Antenna Gain: Ant1: -3.60dBi;						

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	1.045	>=0.697	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	0.996	1.208	>=0.805	Pass
8DPSK	SISO	HOPP	3DH5	1.025	1.252	>=0.835	Pass

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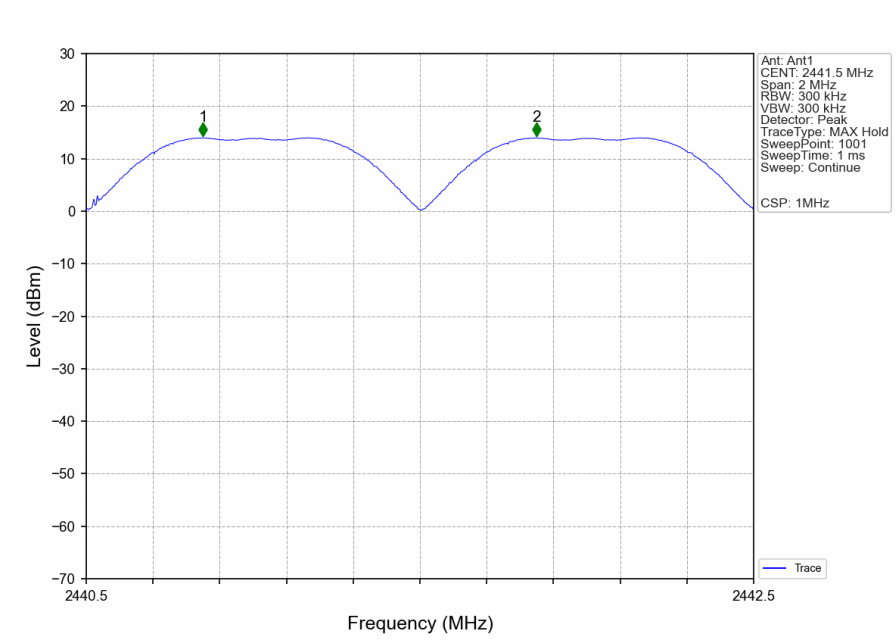
3.2 Test Graph

3.2.1 Ant1

GFSK_DH5_HOPP_Ant1_NTNV



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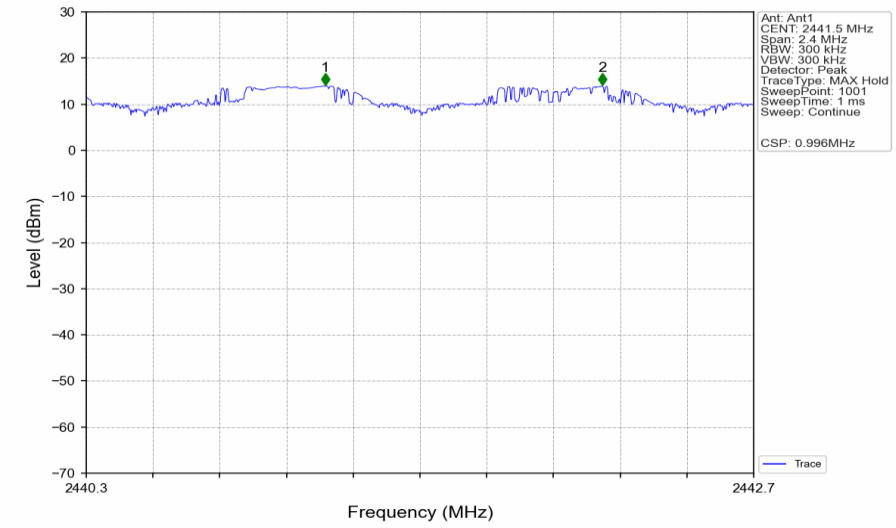

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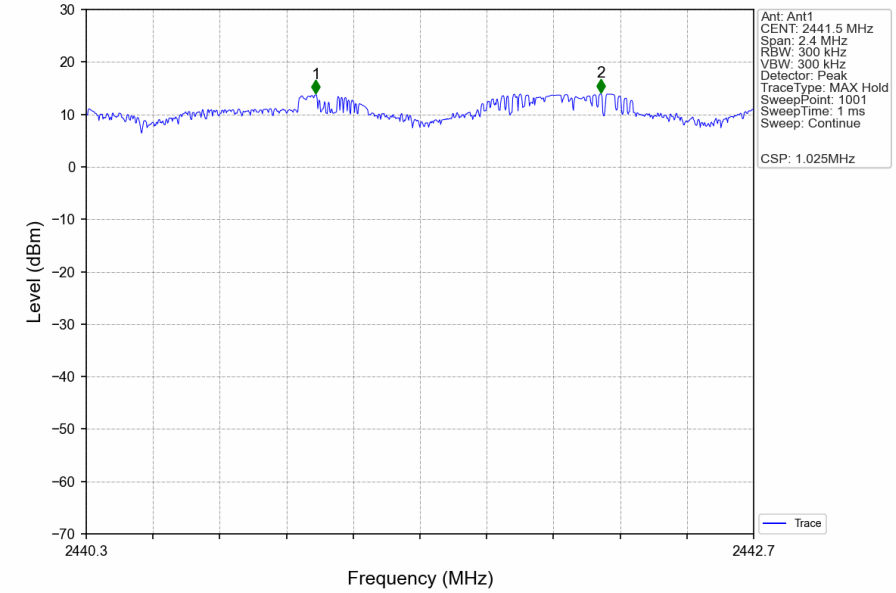

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4. Number of Hopping Frequencies

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

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4.2 Test Graph

4.2.1 HoppNum

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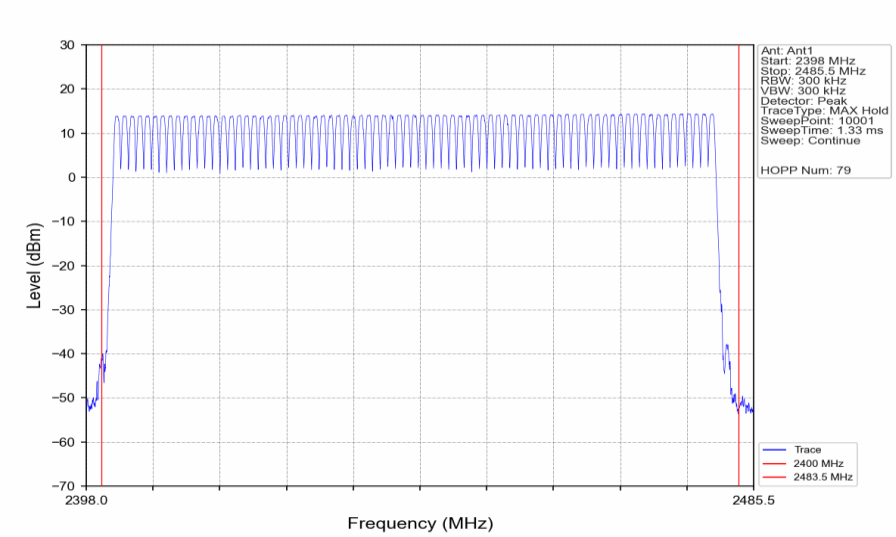
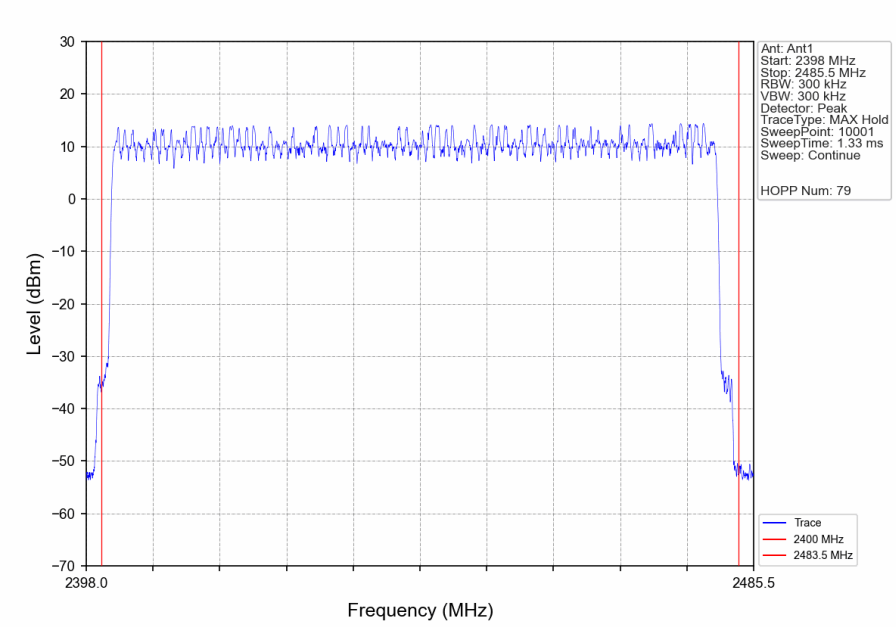


Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



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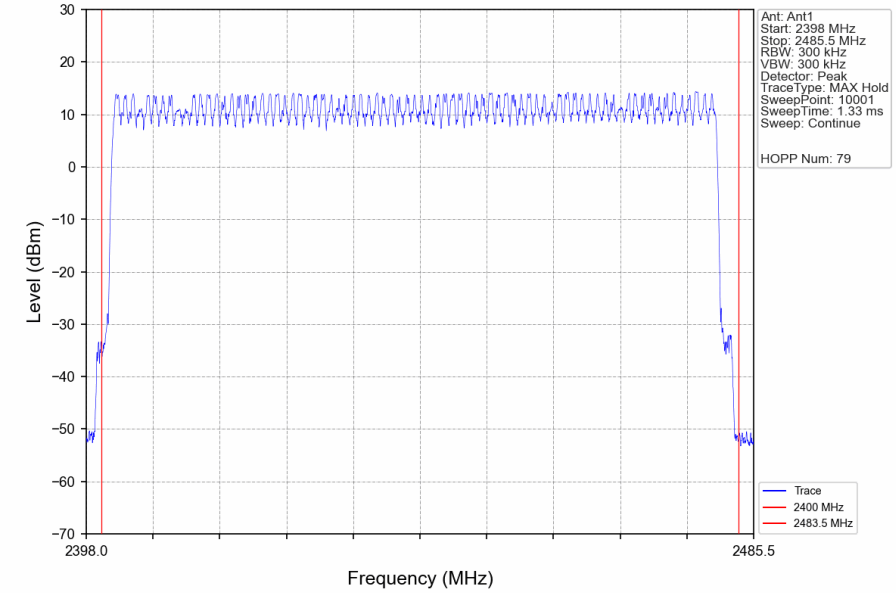

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5. Time of Occupancy (Dwell Time)

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	0.388	31.600	150	58.200	<=400	Pass
			DH3	1.646	31.600	118	194.228	<=400	Pass
			DH5	2.896	31.600	75	217.200	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.396	31.600	170	67.320	<=400	Pass
			2DH3	1.654	31.600	109	180.286	<=400	Pass
			2DH5	2.902	31.600	84	243.768	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.402	31.600	152	61.104	<=400	Pass
			3DH3	1.652	31.600	94	155.288	<=400	Pass
			3DH5	2.892	31.600	85	245.820	<=400	Pass

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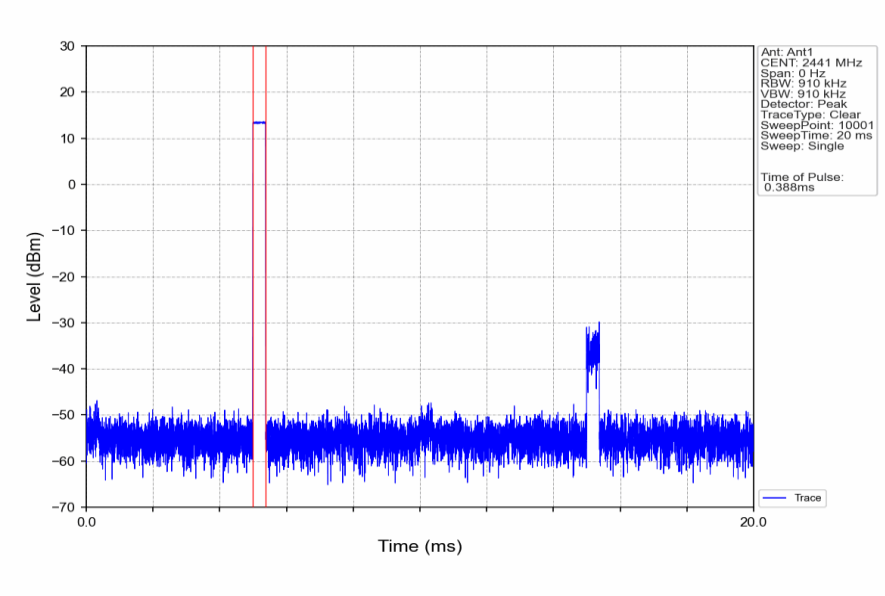
5.2 Test Graph

5.2.1 Ant1

GFSK_DH1_HOPP_Ant1_NTNV



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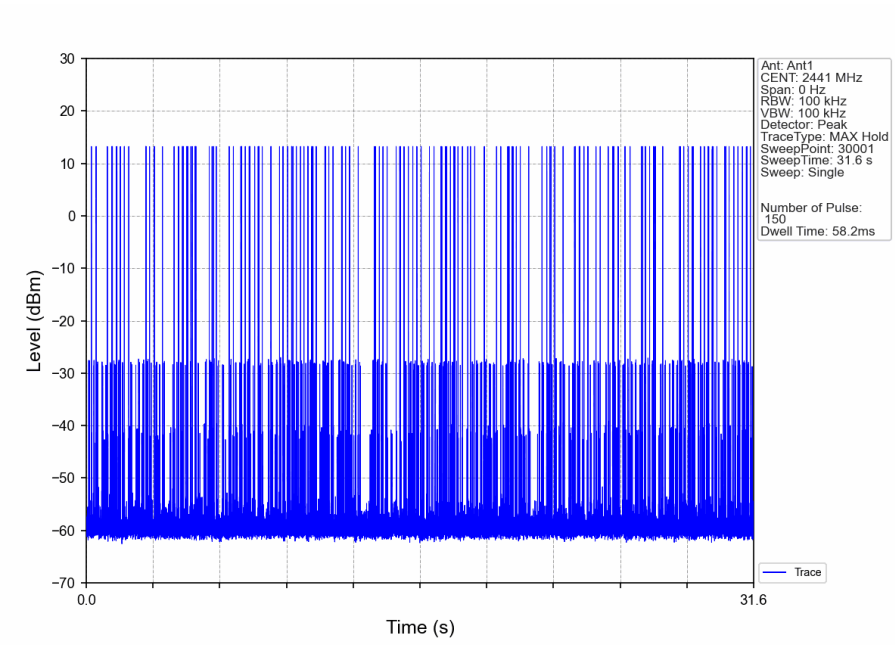

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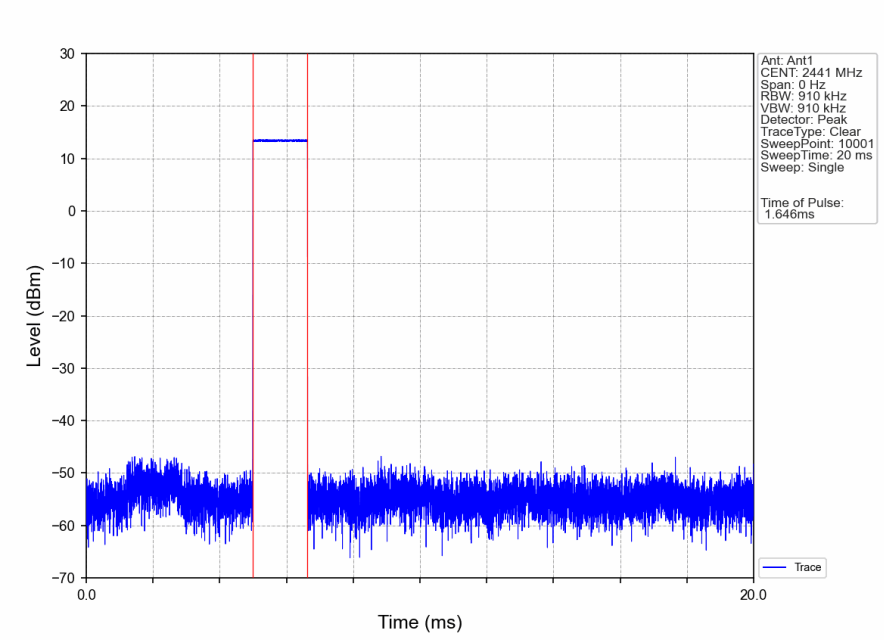
GFSK_DH3_HOPP_Ant1_NTNV



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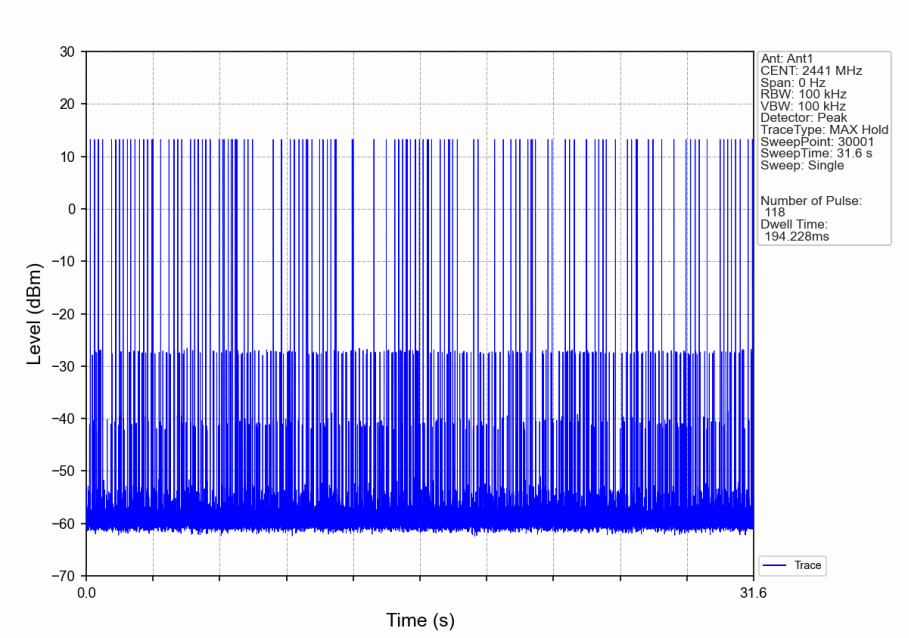

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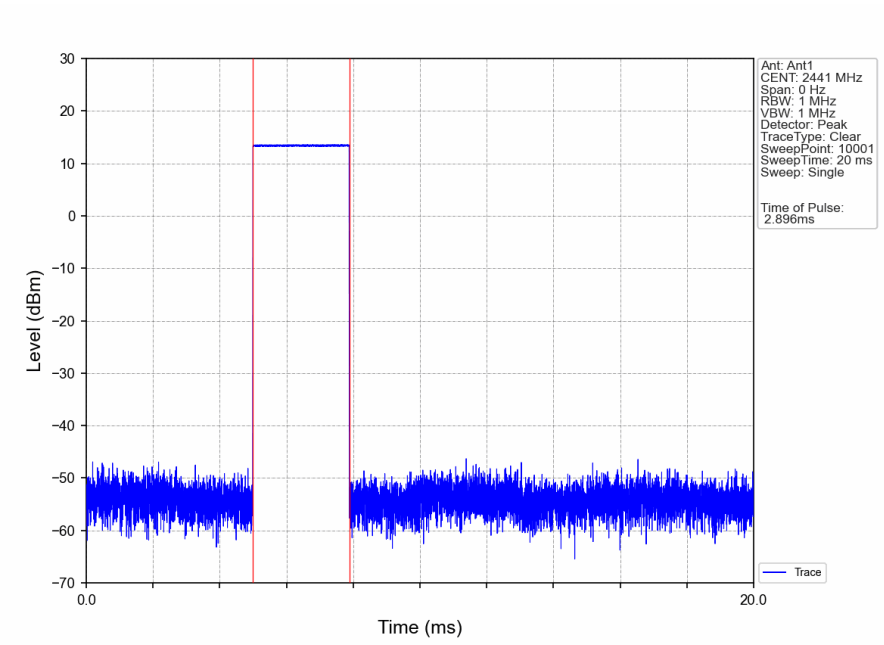

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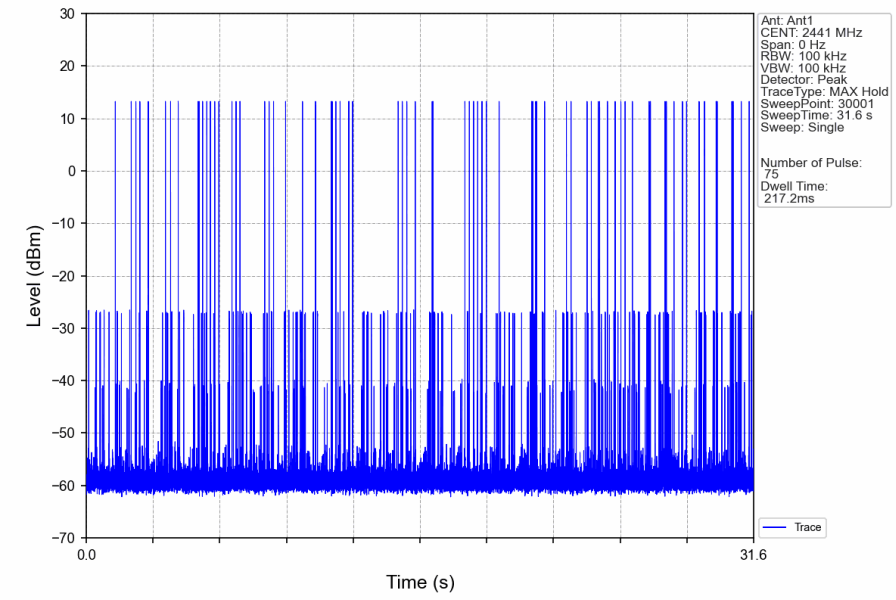

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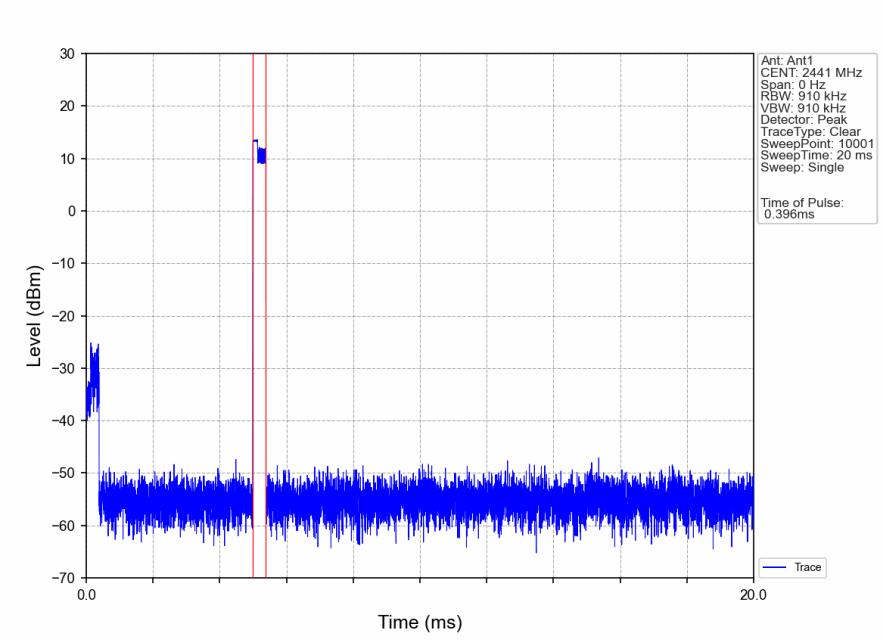

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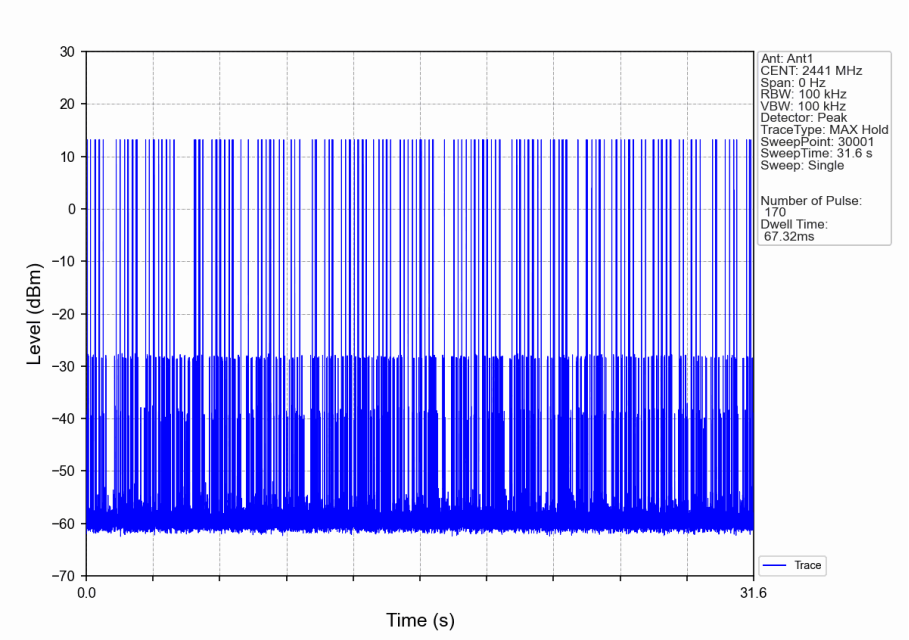

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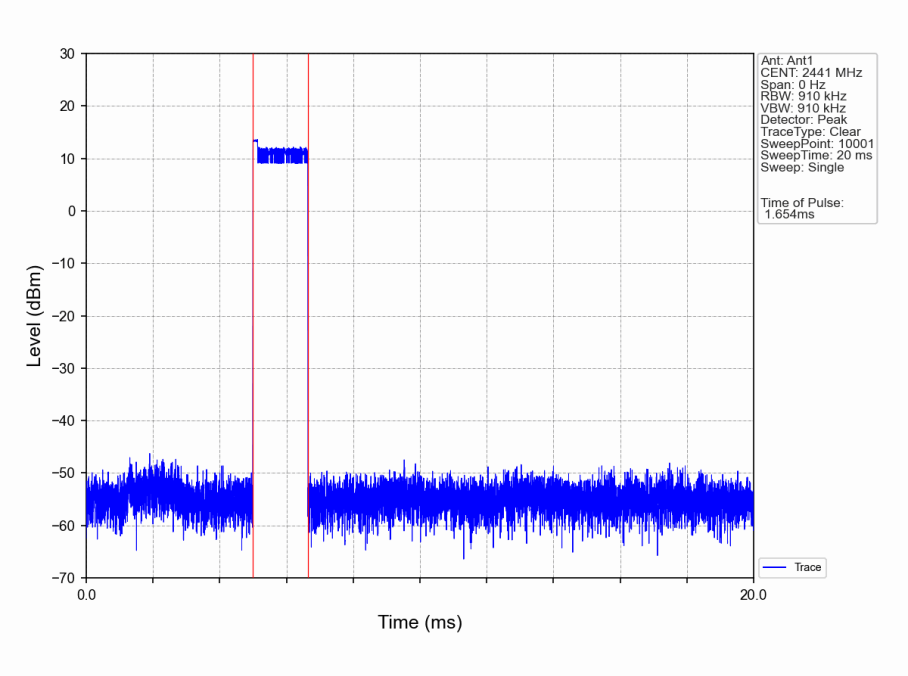

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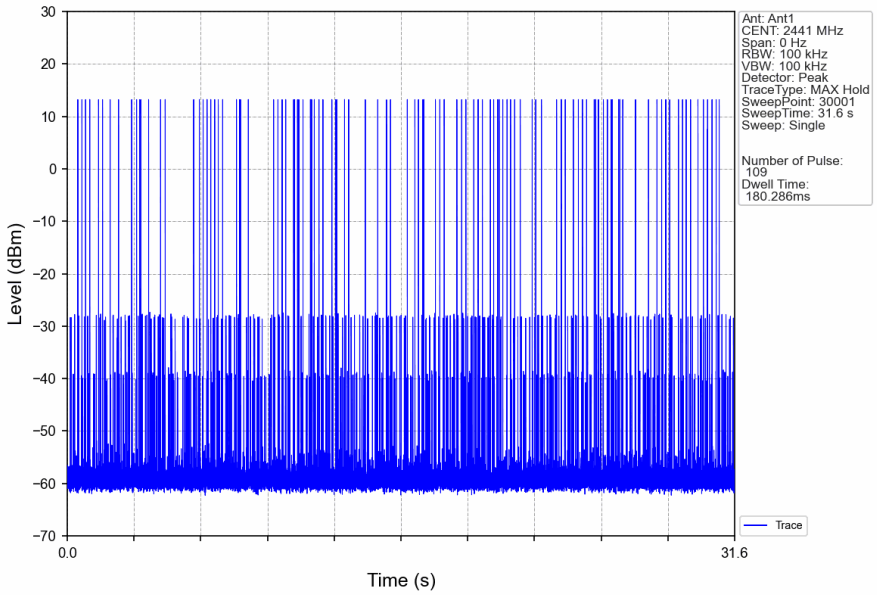

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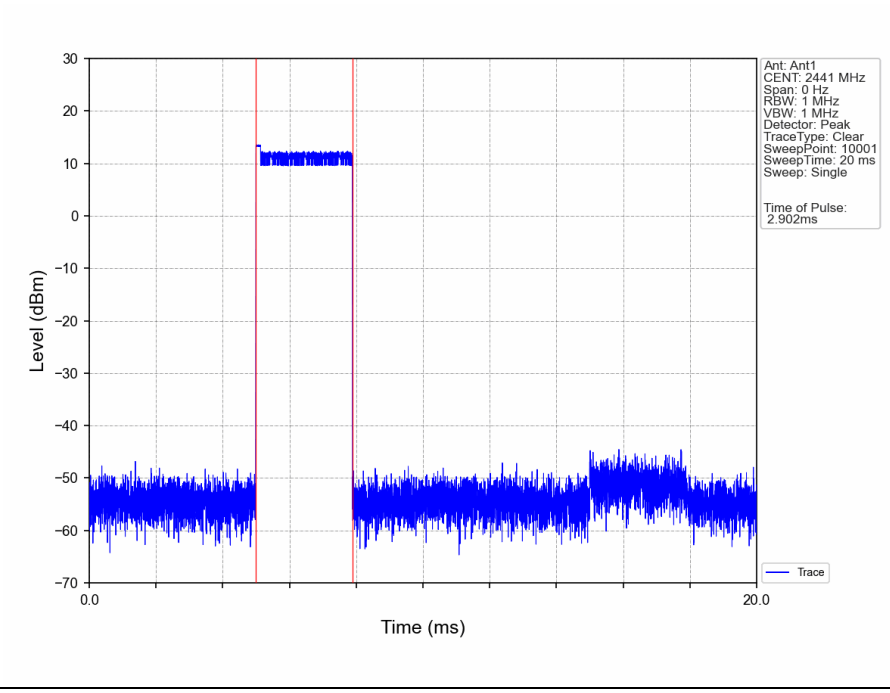
Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



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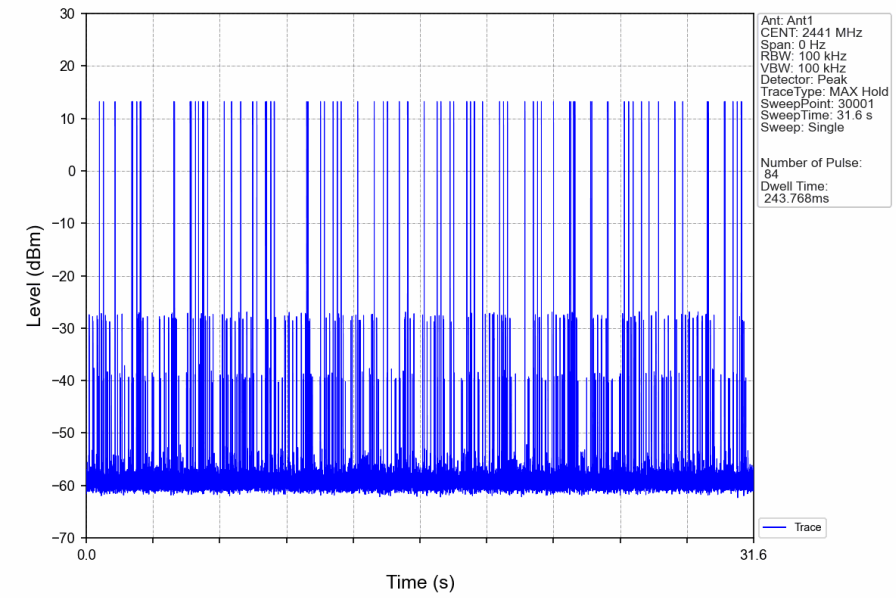

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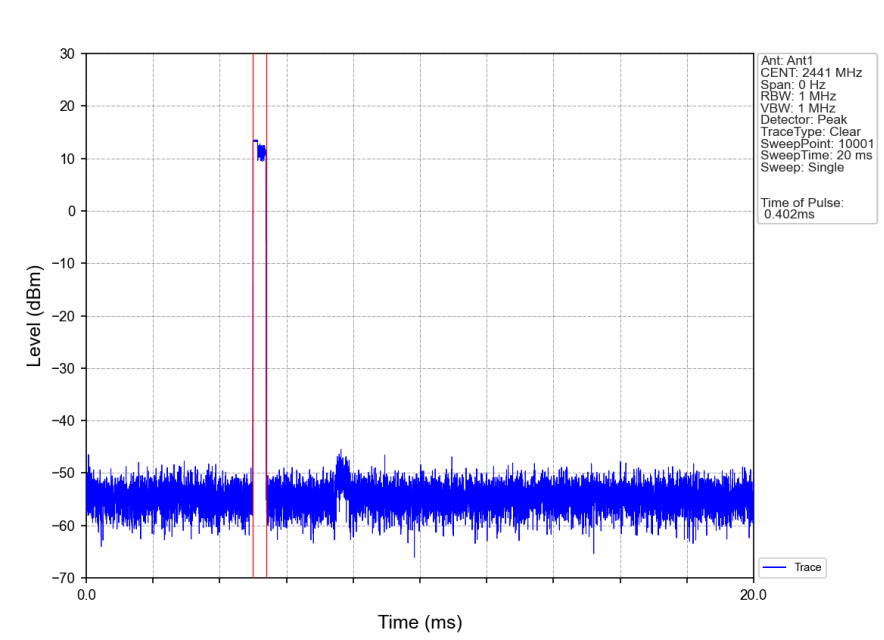
8DPSK_3DH1_HOPP_Ant1_NTNV



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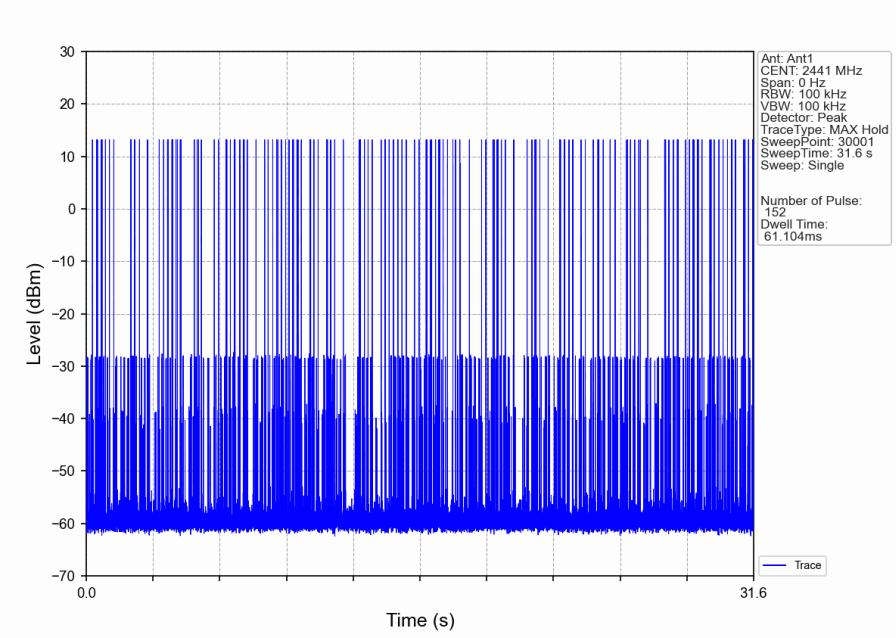

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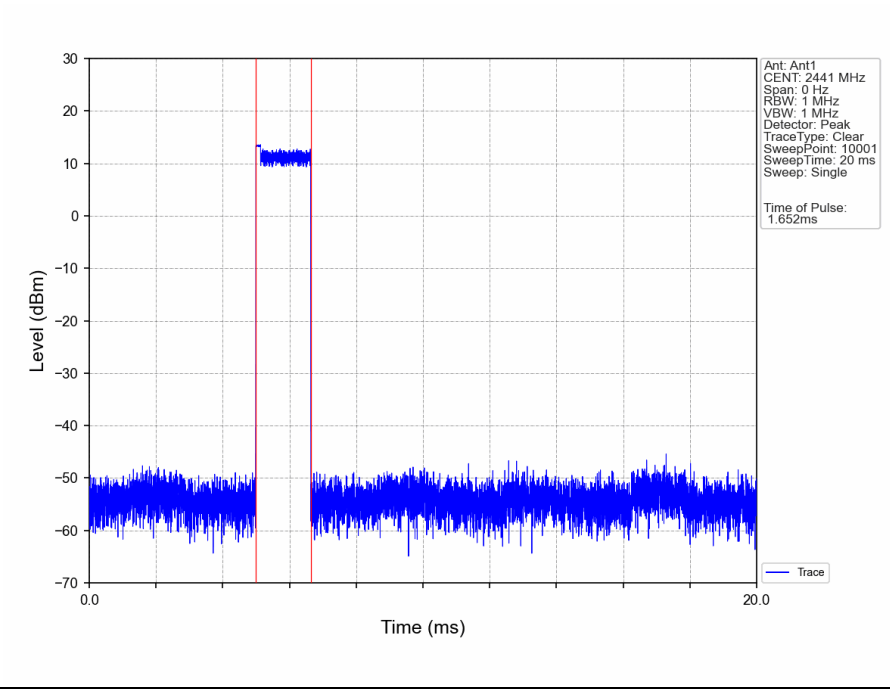
8DPSK_3DH3_HOPP_Ant1_NTNV



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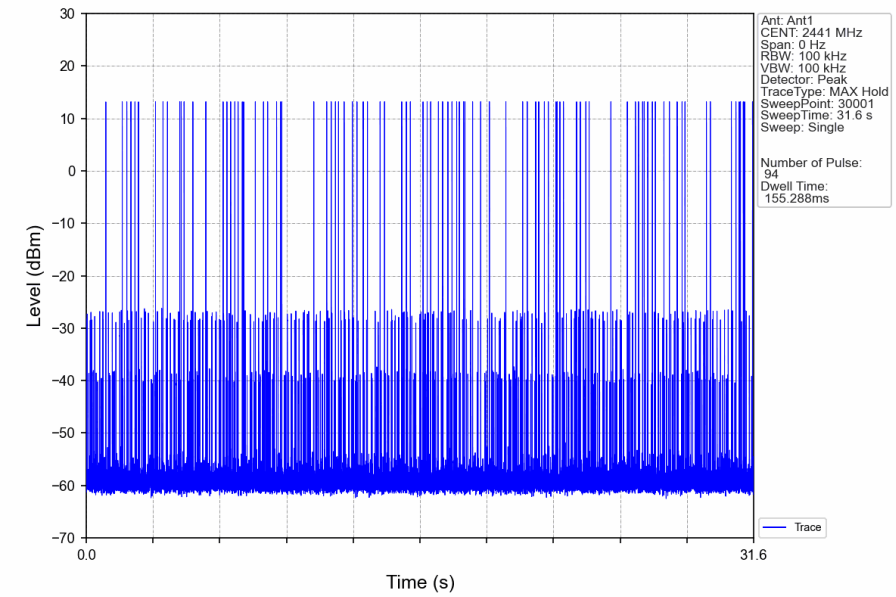

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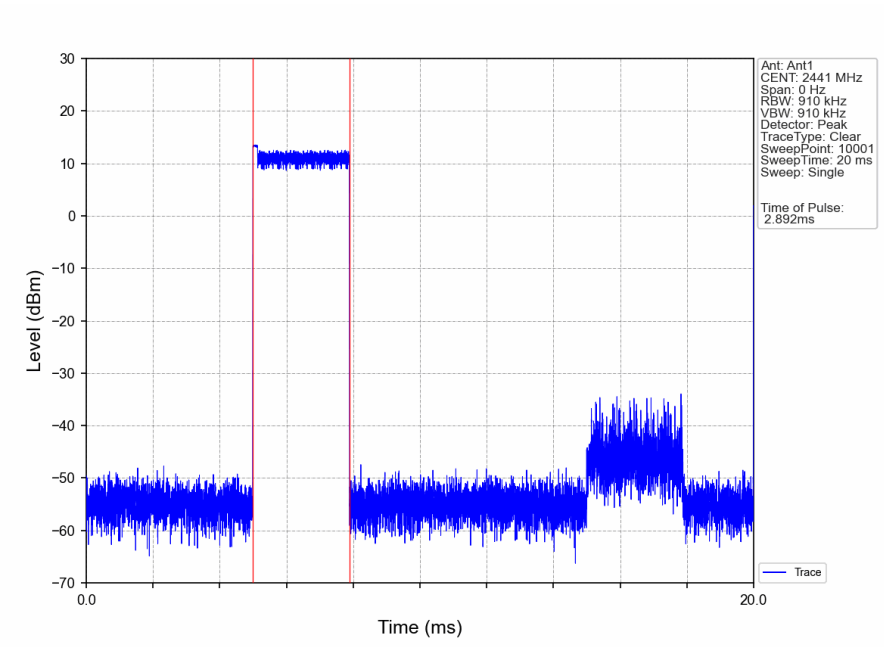
8DPSK_3DH5_HOPP_Ant1_NTNV



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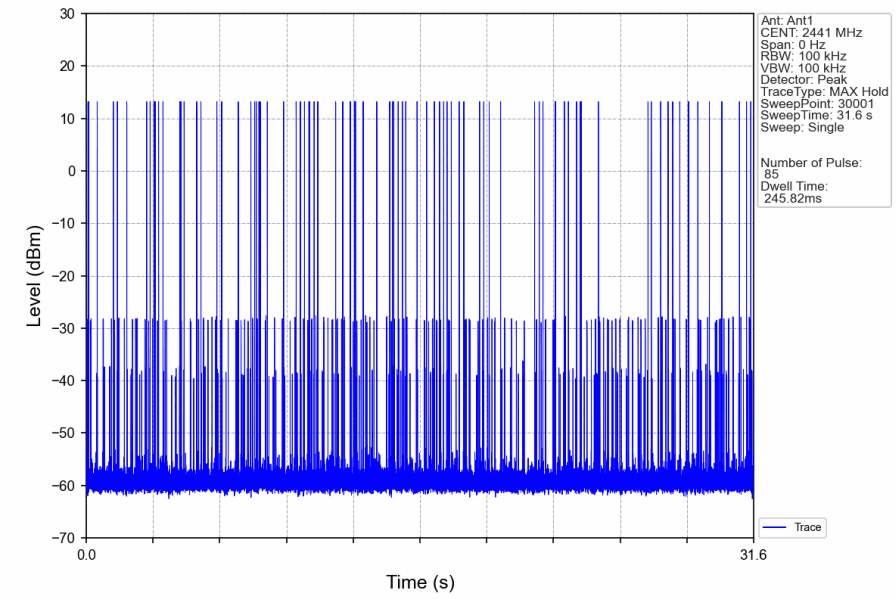

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6. Unwanted Emissions In Non-restricted Frequency Bands

6.1 Test Result

6.1.1 Ref

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	13.21
		2441	DH5	1	13.37
		2480	DH5	1	13.60
Pi/4DQPSK	SISO	2402	2DH5	1	13.11
		2441	2DH5	1	13.18
		2480	2DH5	1	13.59
8DPSK	SISO	2402	3DH5	1	13.19
		2441	3DH5	1	13.42
		2480	3DH5	1	13.70
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.					

6.1.2 CSE

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	13.60	-6.40	Pass
		2441	DH5	1	13.60	-6.40	Pass
		2480	DH5	1	13.60	-6.40	Pass
		HOPP	DH5	1	13.60	-6.40	Pass
					13.60	-6.40	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	13.59	-6.41	Pass
		2441	2DH5	1	13.59	-6.41	Pass
		2480	2DH5	1	13.59	-6.41	Pass
		HOPP	2DH5	1	13.59	-6.41	Pass
					13.59	-6.41	Pass
8DPSK	SISO	2402	3DH5	1	13.70	-6.30	Pass
		2441	3DH5	1	13.70	-6.30	Pass
		2480	3DH5	1	13.70	-6.30	Pass
		HOPP	3DH5	1	13.70	-6.30	Pass
					13.70	-6.30	Pass
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.							

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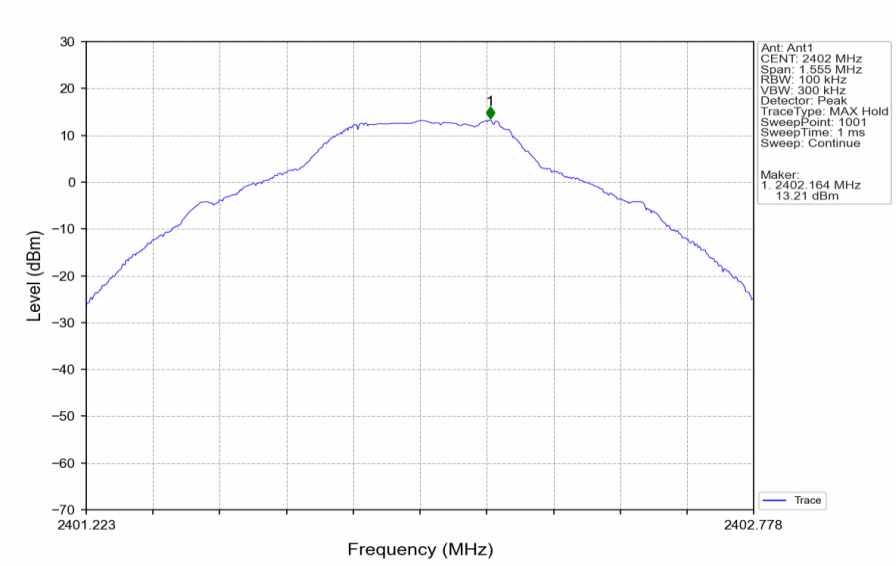
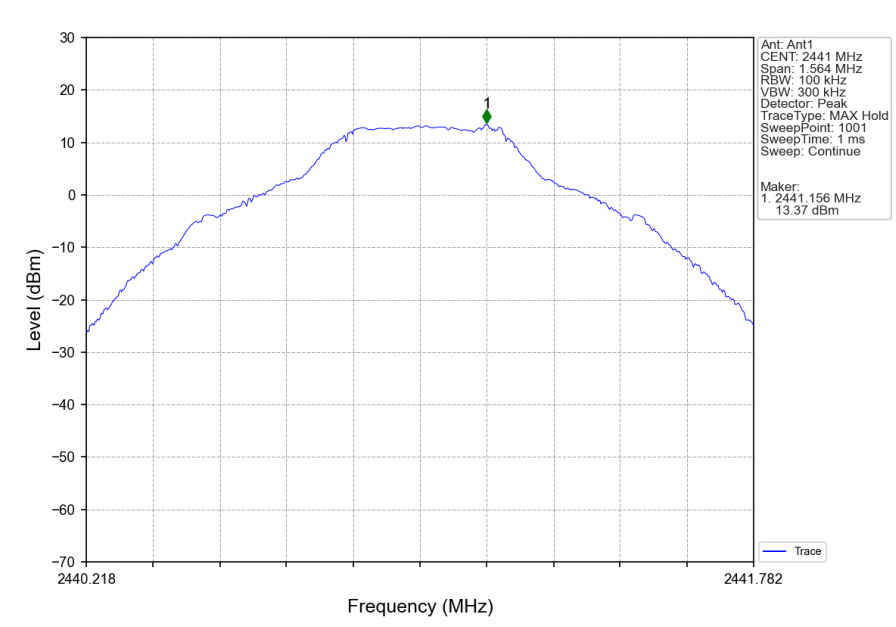
6.2 Test Graph

6.2.1 Ref

GFSK_DH5_LCH_2402MHz_Ant1_NTNV



GFSK_DH5_MCH_2441MHz_Ant1_NTNV



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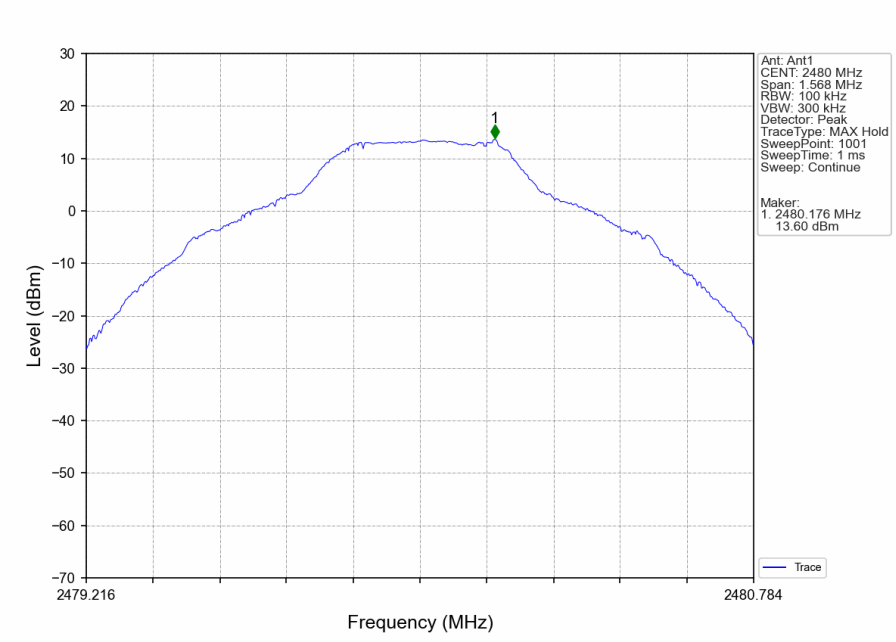
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



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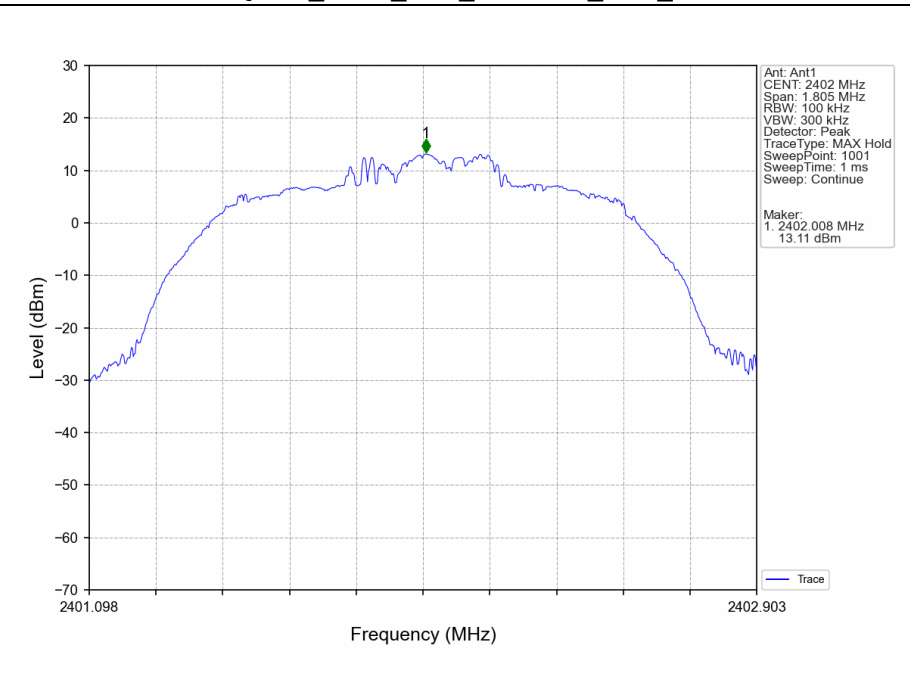

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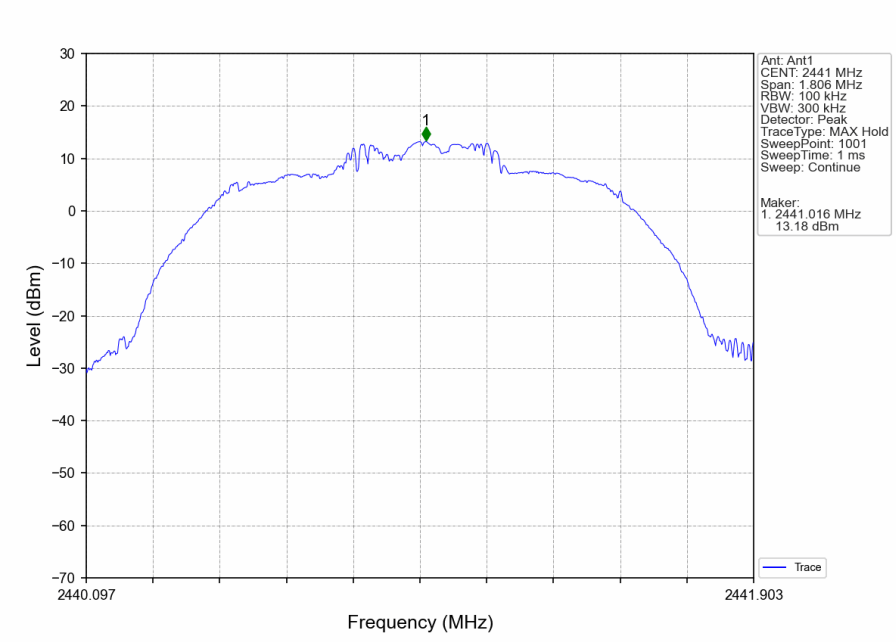
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



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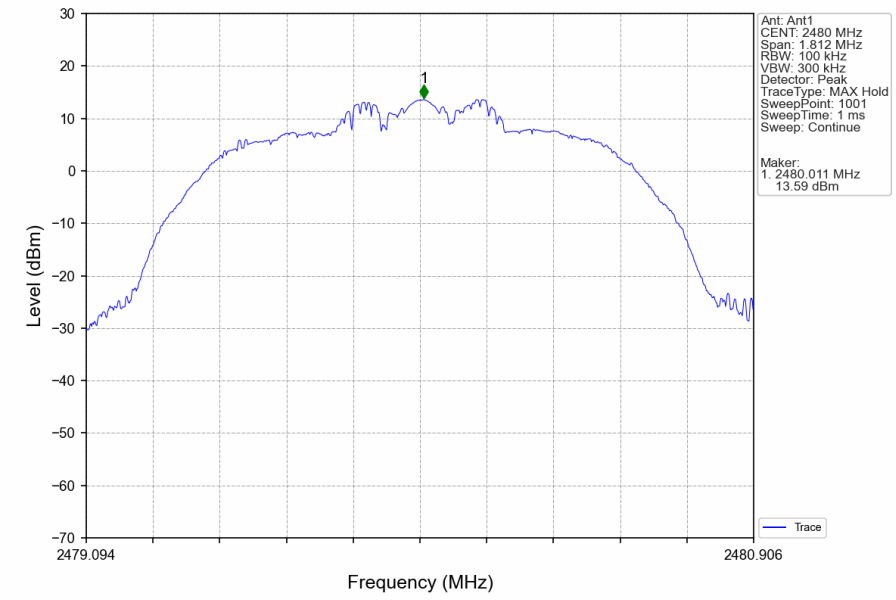

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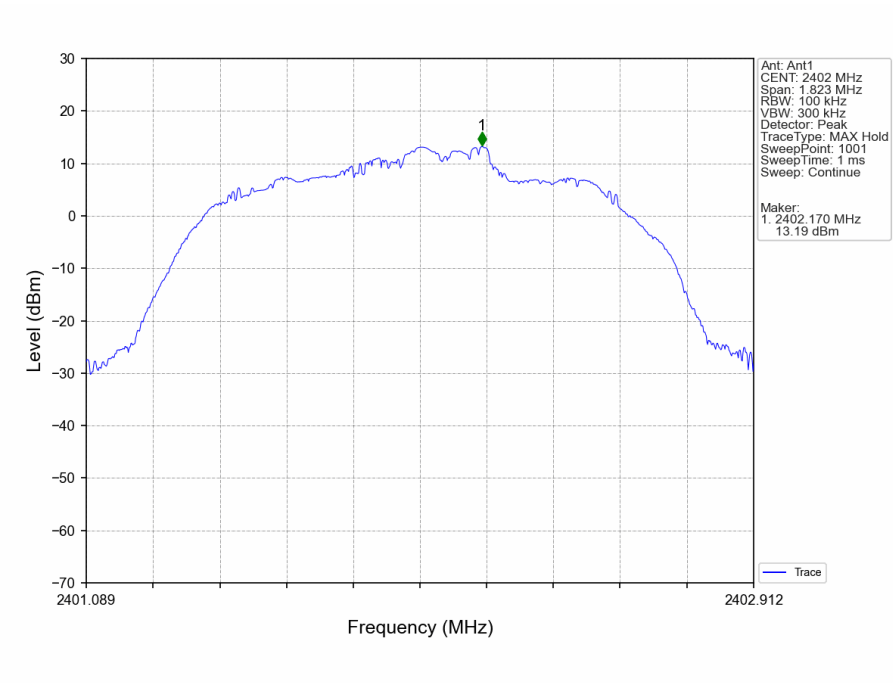
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



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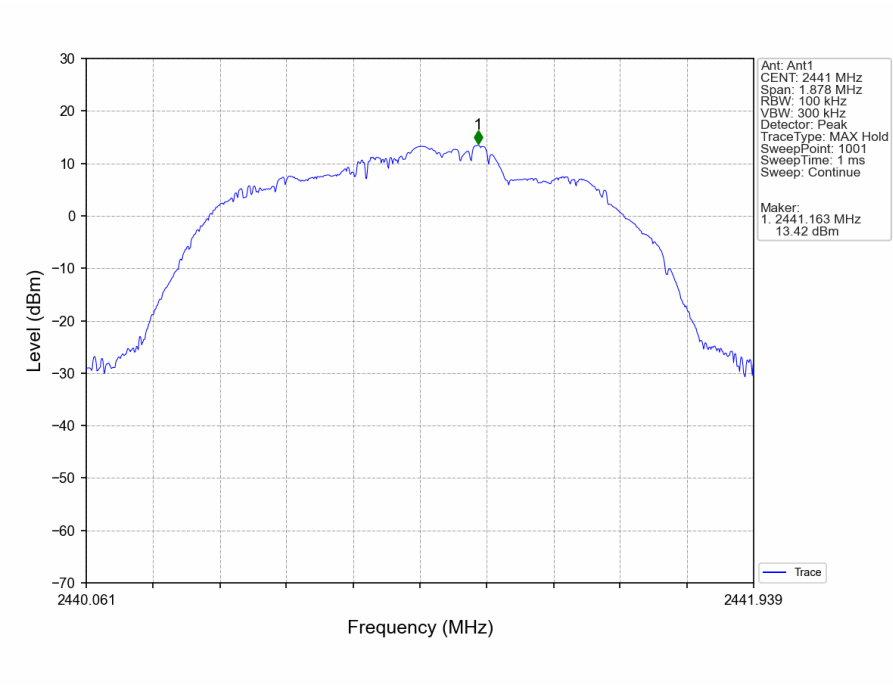

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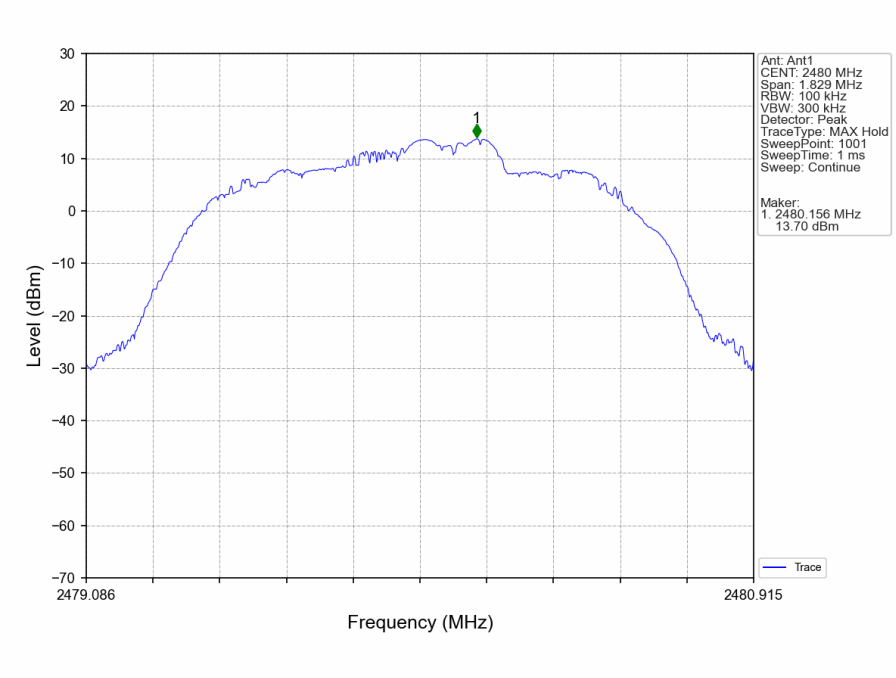
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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6.2.2 CSE

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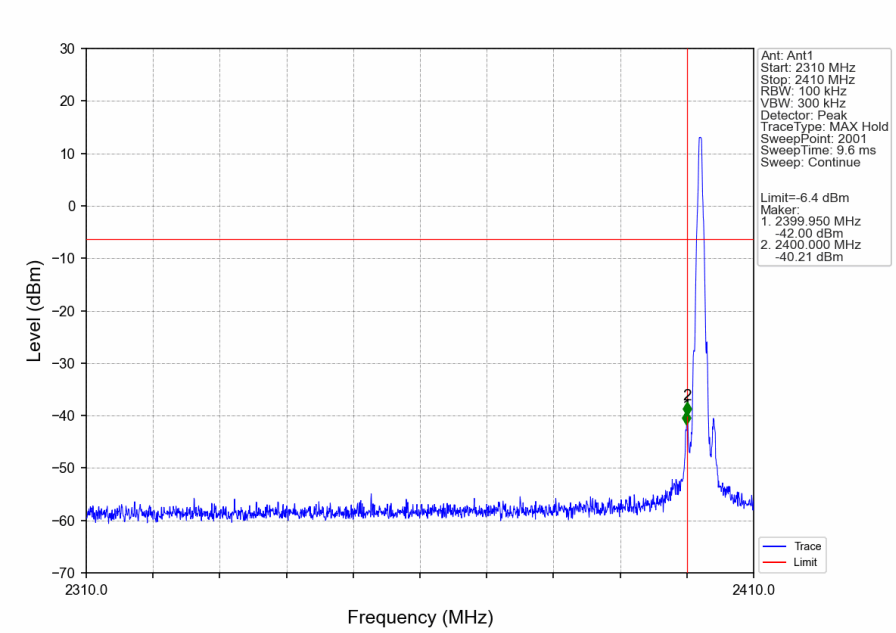

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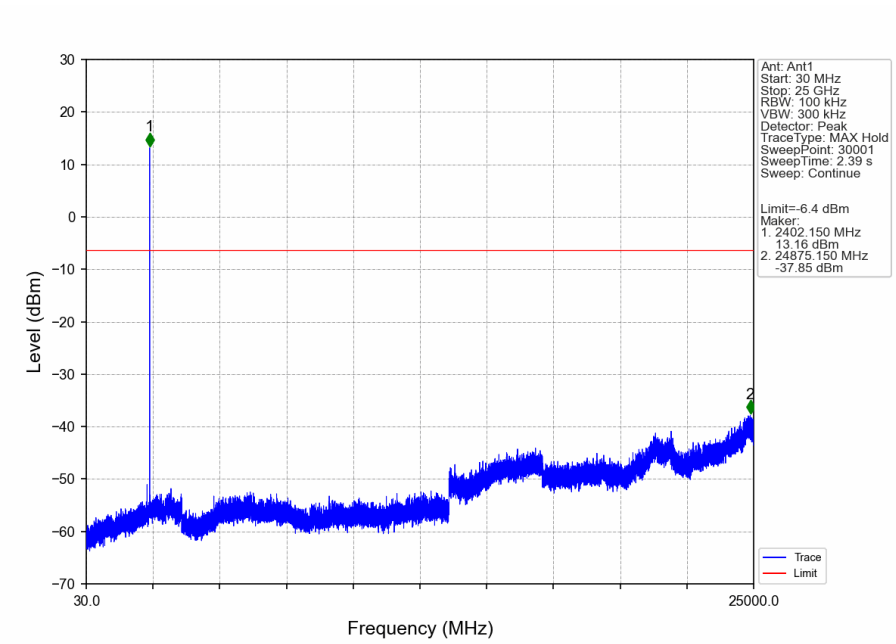

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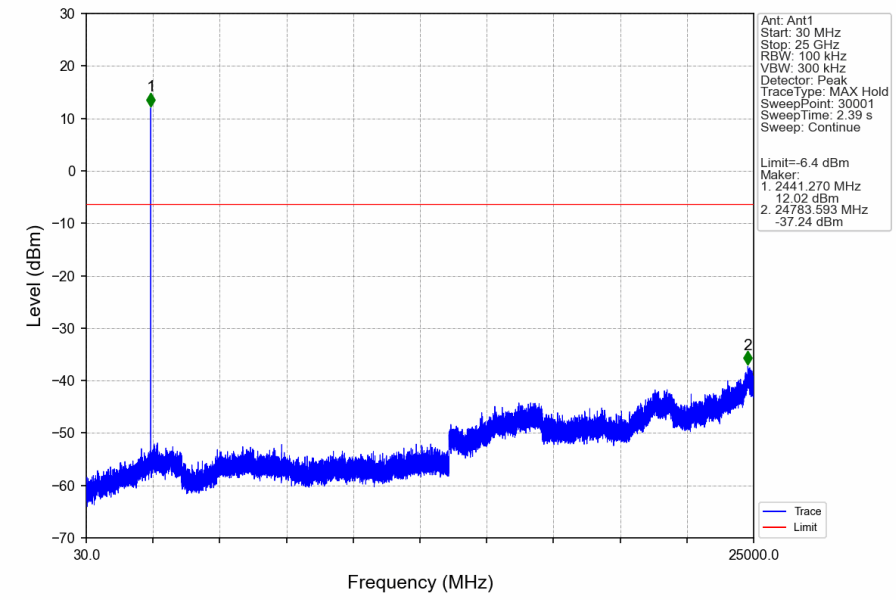
GFSK_DH5_MCH_2441MHz_Ant1_NTNV



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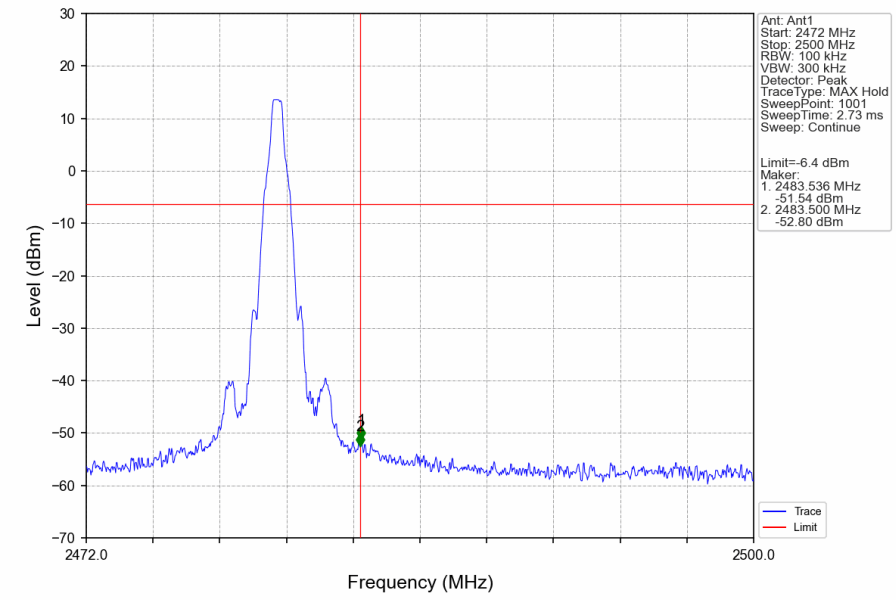

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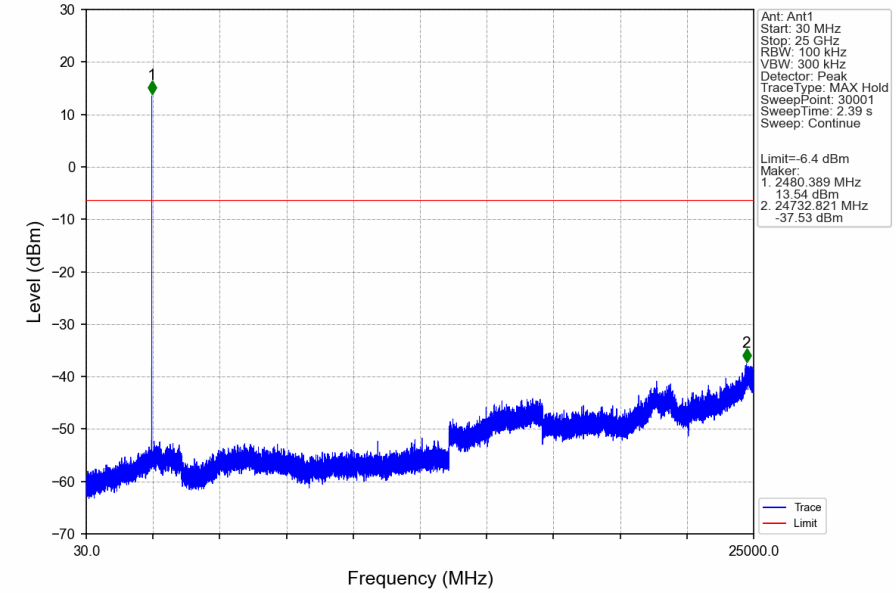

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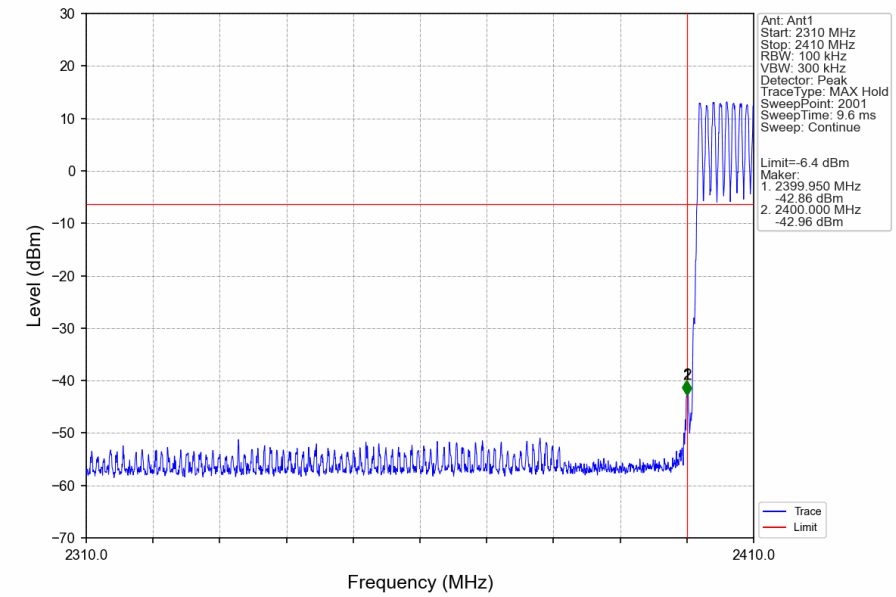

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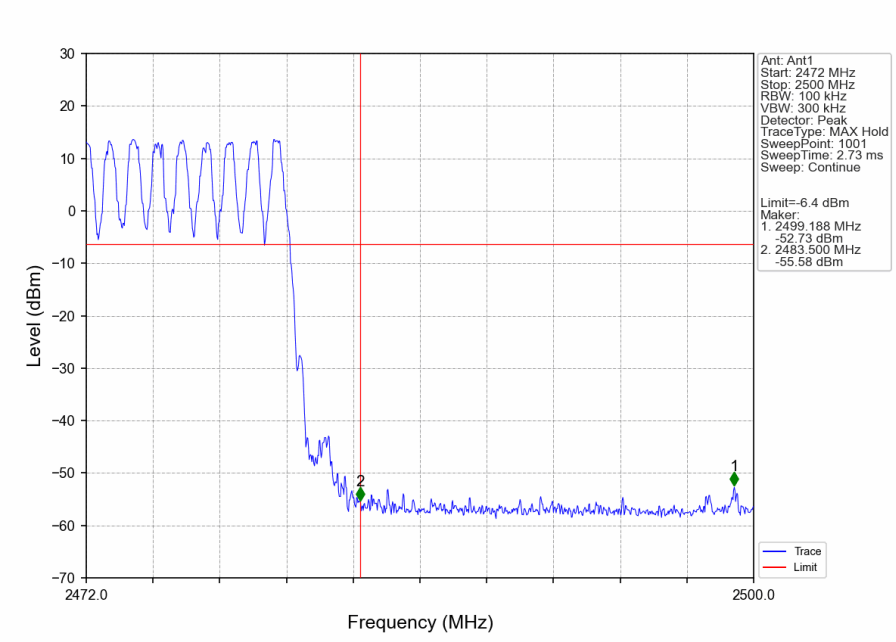
GFSK_DH5_HOPP_Ant1_NTNV



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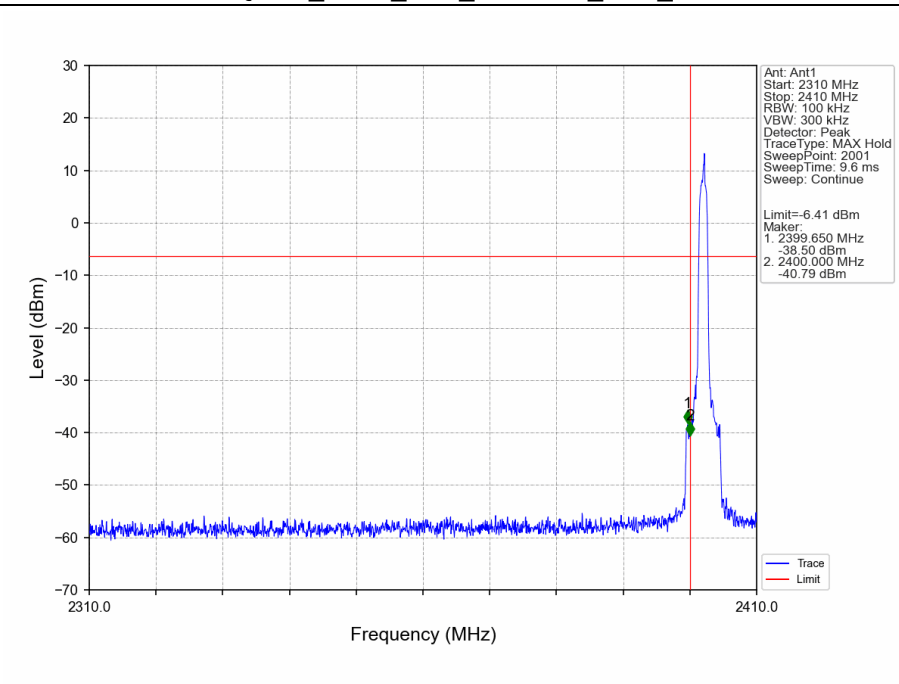

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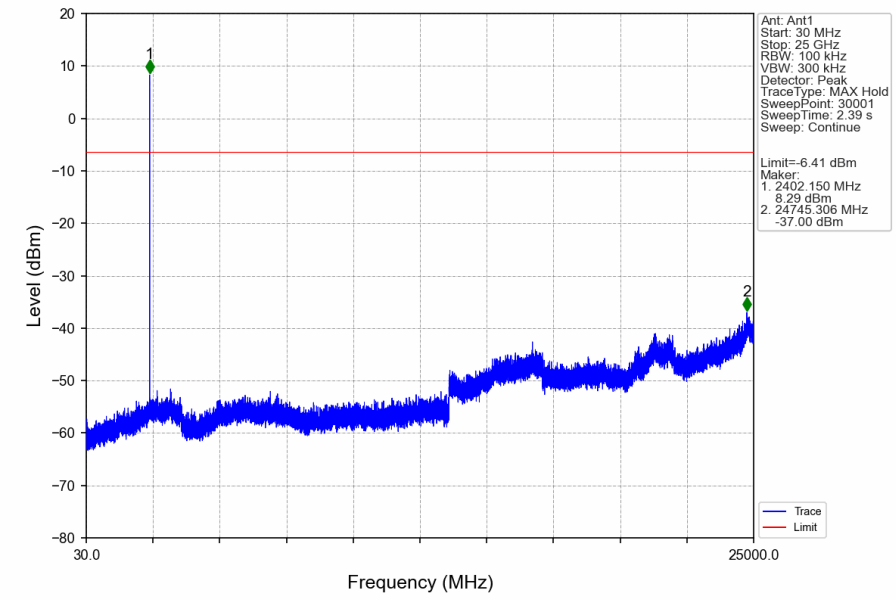
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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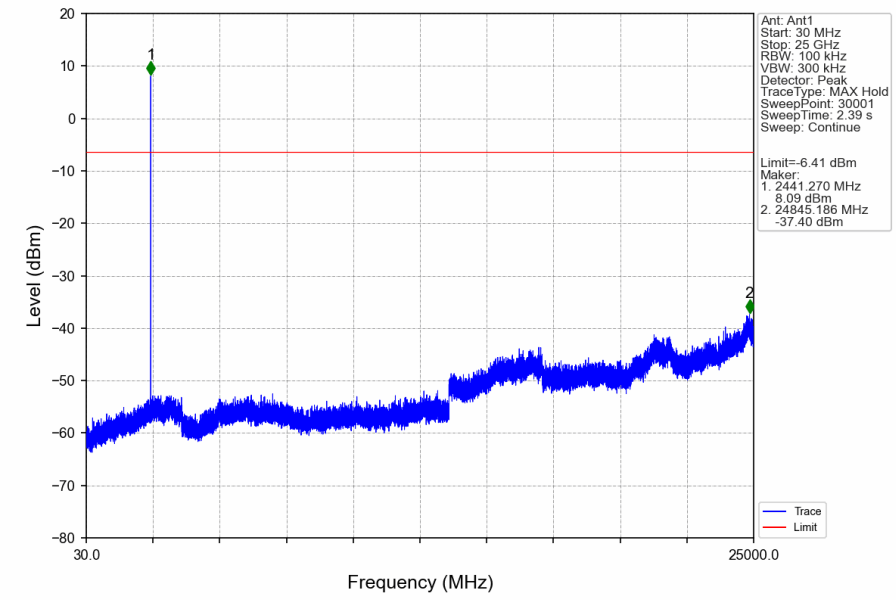

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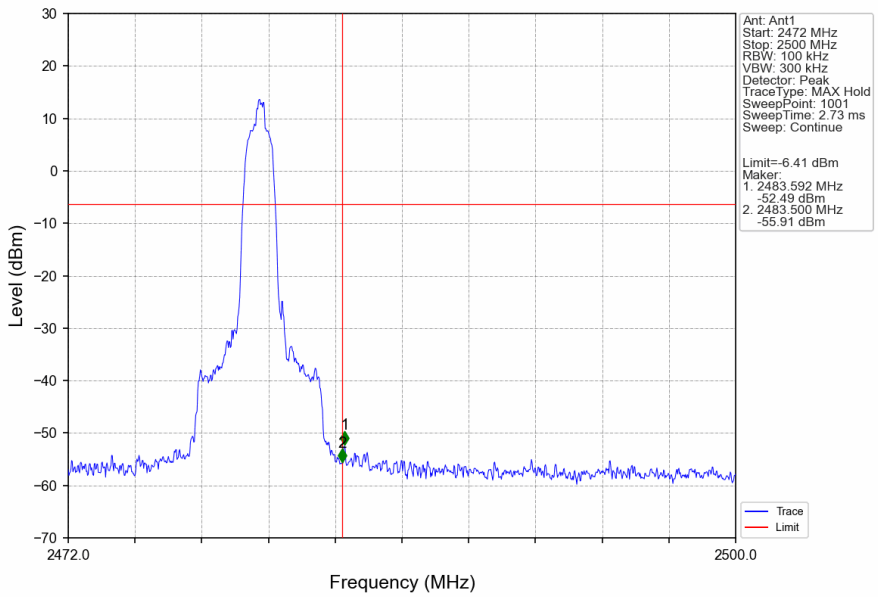

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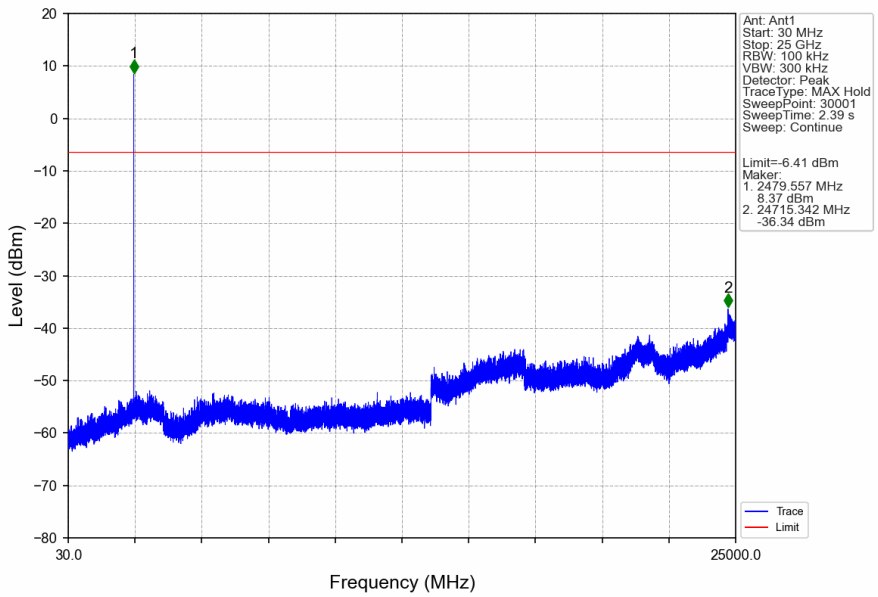

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