TEST REPORT

Application No.:	SZEM1912021376CR
Applicant:	SKULLCANDY, INC.
Address of Applicant:	6301 N Landmark Dr Park City UT 84098, Utah United States of America
Manufacturer:	SKULLCANDY, INC.
Address of Manufacturer:	6301 N Landmark Dr Park City UT 84098, Utah United States of America
Equipment Under Test (EUT):	
EUT Name:	Push Ultra
Model No.:	S2BDW
Trade mark:	Skullcandy
FCC ID:	Y22-S2BDW
Standard(s) :	47 CFR Part 15, Subpart C 15.247
Date of Receipt:	2019-12-18
Date of Test:	2020-01-07 to 2020-03-05
Date of Issue:	2020-04-10
Test Result:	**Pass***

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

Keny Xu
EMC Laboratory Manager

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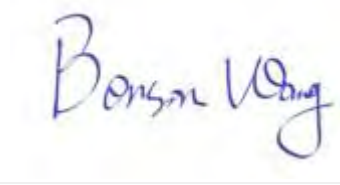
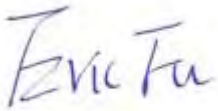
Revision Record				
Version	**Chapter**	**Date**	**Modifier**	**Remark**
01		2020-04-10		Original

Authorized for issue by:				
				
		Benson Wang /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
Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.247(a)(1),(g),(h)	Pass

Radio Spectrum Matter Part				
Item	**Standard**	**Method**	**Requirement**	**Result**
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.5	47 CFR Part 15, Subpart C 15.247(b)(1)	Pass
20dB Bandwidth	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.7	47 CFR Part 15, Subpart C 15.247(a)(1)	Pass
Carrier Frequencies Separation	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.2	47 CFR Part 15, Subpart C 15.247a(1)	Pass
Hopping Channel Number	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.3	47 CFR Part 15, Subpart C 15.247a(1)(iii)	Pass
Dwell Time	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.4	47 CFR Part 15, Subpart C 15.247a(1)(iii)	Pass
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.6	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.8	47 CFR Part 15, Subpart C 15.247(d)	Pass
Radiated Emissions which fall in the restricted bands	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	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass

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3 Contents

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4 General Information

4.1 Details of E.U.T.

Power Supply:	Left earbuds: Li-Ion Polymer Battery 3.7V 50mAh (Charge by travel case) Right earbuds: Li-Ion Polymer Battery 3.7V 50mAh (Charge by travel case) travel case with backup battery: Li-Ion Polymer Battery 3.7V 700mAh (Charged by type-C port or wireless charging pad)
Cable:	Type-c cable: 26.5cm unshielded
Bluetooth Version:	V5.0 Dual mode
Operation Frequency:	2402MHz to 2480MHz
Spectrum Spread Technology:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, π/4DQPSK, 8DPSK
Number of Channels:	79
Channel Spacing:	1MHz
Antenna Type:	Integral Antenna
Antenna Gain:	Left earbuds: 1.33dBi; Right earbuds: 0.64dBi

4.2 Description of Support Units

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

Item	Measurement Uncertainty
Radio Frequency	± 7.25 x 10^{-8}
RF conducted power	± 0.75dB
Conducted Spurious emissions	± 0.75dB
RF Radiated power	± 4.5dB (Below 1GHz)
	± 4.8dB (Above 1GHz)
Radiated Spurious emission test	± 4.5dB (Below 1GHz)
	± 4.8dB (Above 1GHz)
Temperature test	± 1°C
Humidity test	± 3%
Supply voltages	± 1.5%
Time	± 3%

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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, 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

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. 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: CN1178

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

Designation Number: CN1178. Test Firm Registration Number: 406779.

• Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

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5 Equipment List

Conducted Peak Output Power					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2019-07-11	2020-07-10
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27
Electric Field Probe	WANDEL & GOLTERMANN	EMR-20	EMC0907	2019-05-21	2020-05-20
EMF Tester	Narda	ELT-400	SZE039-4	2019-07-08	2020-07-07

20dB Bandwidth					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2019-07-11	2020-07-10
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27
Electric Field Probe	WANDEL & GOLTERMANN	EMR-20	EMC0907	2019-05-21	2020-05-20
EMF Tester	Narda	ELT-400	SZE039-4	2019-07-08	2020-07-07

Carrier Frequencies Separation					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23

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Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2019-07-11	2020-07-10
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27
Electric Field Probe	WANDEL & GOLTERMANN	EMR-20	EMC0907	2019-05-21	2020-05-20
EMF Tester	Narda	ELT-400	SZE039-4	2019-07-08	2020-07-07

Hopping Channel Number					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2019-07-11	2020-07-10
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27
Electric Field Probe	WANDEL & GOLTERMANN	EMR-20	EMC0907	2019-05-21	2020-05-20
EMF Tester	Narda	ELT-400	SZE039-4	2019-07-08	2020-07-07

Dwell Time					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2019-07-11	2020-07-10
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27

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Electric Field Probe	WANDEL & GOLTERMANN	EMR-20	EMC0907	2019-05-21	2020-05-20
EMF Tester	Narda	ELT-400	SZE039-4	2019-07-08	2020-07-07

Conducted Band Edges Measurement					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2019-07-11	2020-07-10
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27
Electric Field Probe	WANDEL & GOLTERMANN	EMR-20	EMC0907	2019-05-21	2020-05-20
EMF Tester	Narda	ELT-400	SZE039-4	2019-07-08	2020-07-07

Conducted Spurious Emissions					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2019-07-11	2020-07-10
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27
Electric Field Probe	WANDEL & GOLTERMANN	EMR-20	EMC0907	2019-05-21	2020-05-20
EMF Tester	Narda	ELT-400	SZE039-4	2019-07-08	2020-07-07

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Radiated Emissions and Radiated Emissions which fall in the restricted bands					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2019-07-11	2020-07-10
EXA Spectrum Analyzer	AgilentTechnologies Inc	N9010A	SEM004-12	2019-04-12	2020-04-11
Horn Antenna	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2019-09-24	2020-09-23
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2020-04-01	2021-03-31
Pre-amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020-04-01	2021-03-31
DC Power Supply	Zhao Xin	KXN-6020D	SEM011-08	2019-09-24	2020-09-23
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21

Radiated Emissions (30MHz-1GHz)					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2017-08-05	2020-08-04
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2019-07-11	2020-07-10
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-15	2019-12-16	2020-12-15
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2017-06-27	2020-06-26
Pre-amplifier	Agilent Technologies	8447D	SEM005-01	2020-04-01	2021-03-31

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General used equipment					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2019-09-26	2020-09-25
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2019-09-26	2020-09-25
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2019-09-26	2020-09-25
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2020-04-07	2021-04-06

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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 earbuds: 1.33dBi; Right earbuds: 0.64dBi.

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)

6.2.2 Conclusion

Standard Requirement:

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

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

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

Compliance for section 15.247(a)(1): According to Technical Specification, the pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized with nine ones.

> Number of shift register stages: 9

> Length of pseudo-random sequence: 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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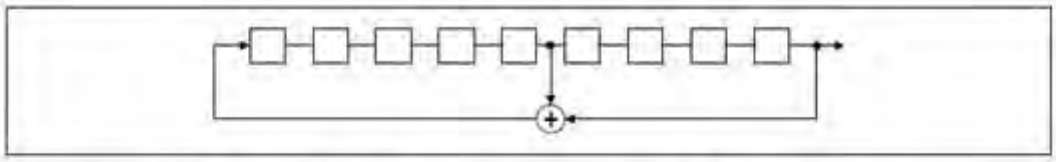
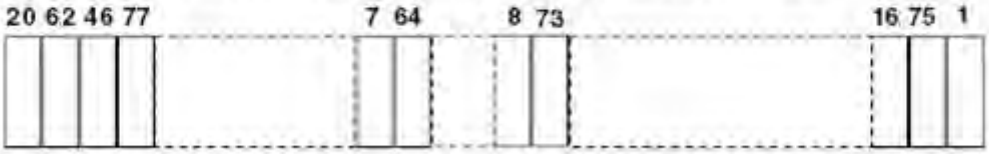


Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:



Each frequency used equally on the average by each transmitter.

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

Compliance for section 15.247(g): According to Technical Specification, the system transmits the packet with the pseudorandom hopping frequency with a continuous data and the short burst transmission from the Bluetooth system is also transmitted under the frequency hopping system with the pseudorandom hopping frequency system.

Compliance for section 15.247(h): According to Technical specification, the system incorporates with an adaptive system to detect other user within the spectrum band so that it individually and independently to avoid hopping on the occupied channels.

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

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7 Radio Spectrum Matter Test Results

7.1 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(1)
Test Method: ANSI C63.10 (2013) Section 7.8.5
Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for ≥50 hopping channels
	0.25 for 25≤ 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

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 27.7 °C Humidity: 46 % RH Atmospheric Pressure: 1020 mbar

Pretest these modes to find the worst case: c:TX_non-Hop mode(Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

h:TX_non-Hop mode(Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

The worst case for final test: c:TX_non-Hop mode(Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

h:TX_non-Hop mode(Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation, π/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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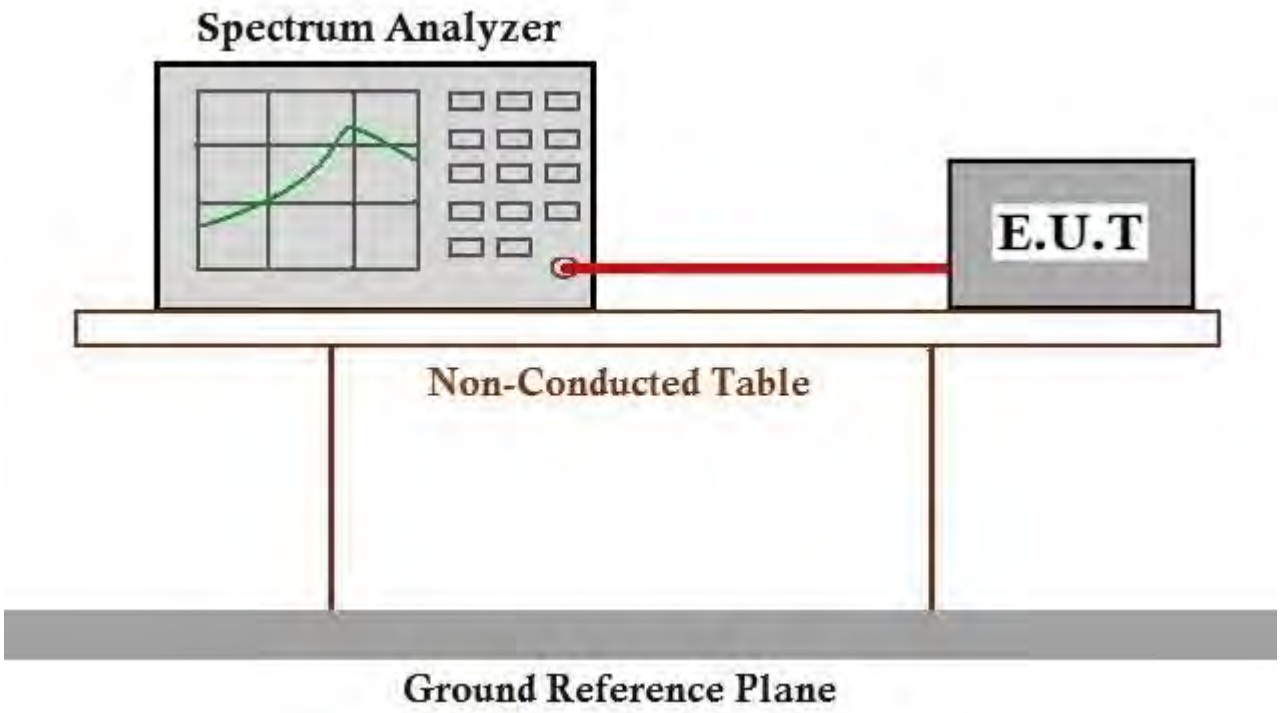
7.1.2 Test Setup Diagram



7.1.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247

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7.2 20dB Bandwidth

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

Test Method: ANSI C63.10 (2013) Section 7.8.7

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 27.7 °C Humidity: 46 % RH Atmospheric Pressure: 1020 mbar

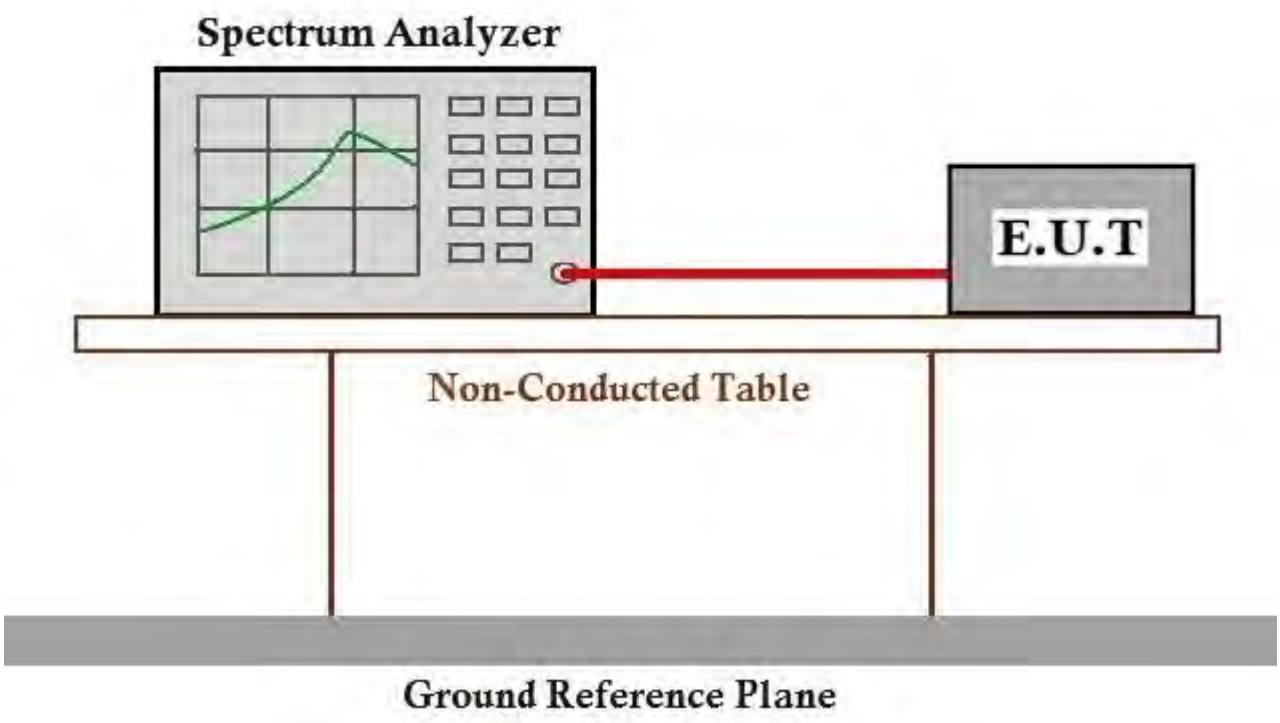
Pretest these modes to find the worst case: c:TX_non-Hop mode(Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

h:TX_non-Hop mode(Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

The worst case for final test: c:TX_non-Hop mode(Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

h:TX_non-Hop mode(Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

7.2.2 Test Setup Diagram



7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247

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7.3 Carrier Frequencies Separation

Test Requirement	47 CFR Part 15, Subpart C 15.247a(1)
Test Method:	ANSI C63.10 (2013) Section 7.8.2
Limit:	For GFSK: Hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Other than GFSK: 2/3 of the 20dB bandwidth base on the transmission power is less than 0.125W

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 27.7 °C Humidity: 45.9 % RH Atmospheric Pressure: 1020 mbar

Pretest these modes to find the worst case:	b:TX_Hop mode(Left earbuds)_Keep the EUT in frequency hopping mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. g:TX_Hop mode(Right earbuds)_Keep the EUT in frequency hopping mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
The worst case for final test:	b:TX_Hop mode(Left earbuds)_Keep the EUT in frequency hopping mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. g:TX_Hop mode(Right earbuds)_Keep the EUT in frequency hopping mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

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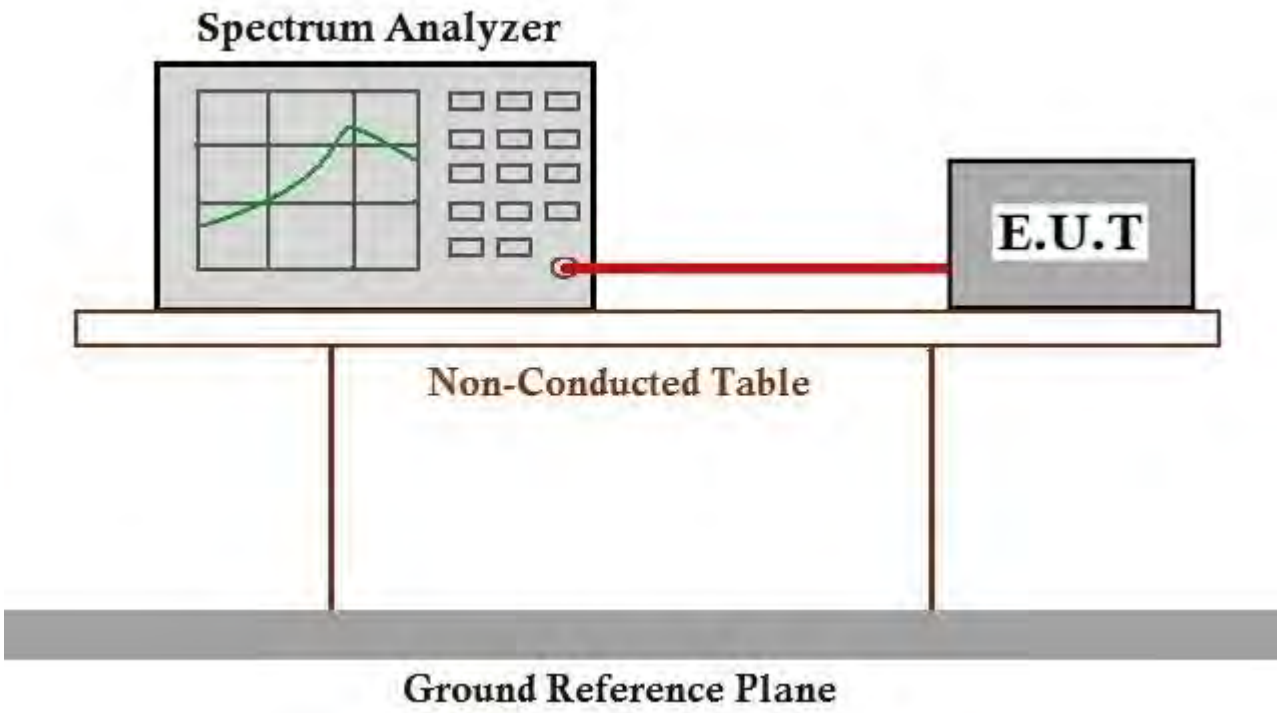
7.3.2 Test Setup Diagram



7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247

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7.4 Hopping Channel Number

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1)(iii)
Test Method: ANSI C63.10 (2013) Section 7.8.3
Limit:

Frequency range(MHz)	Number of hopping channels (minimum)
902-928	50 for 20dB bandwidth <250kHz
	25 for 20dB bandwidth ≥250kHz
2400-2483.5	15
5725-5850	75

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 27.7 °C Humidity: 45.9 % RH Atmospheric Pressure: 1020 mbar

Pretest these modes to find the worst case: b:TX_Hop mode(Left earbuds)_Keep the EUT in frequency hopping mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

g:TX_Hop mode(Right earbuds)_Keep the EUT in frequency hopping mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

The worst case for final test: b:TX_Hop mode(Left earbuds)_Keep the EUT in frequency hopping mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

g:TX_Hop mode(Right earbuds)_Keep the EUT in frequency hopping mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

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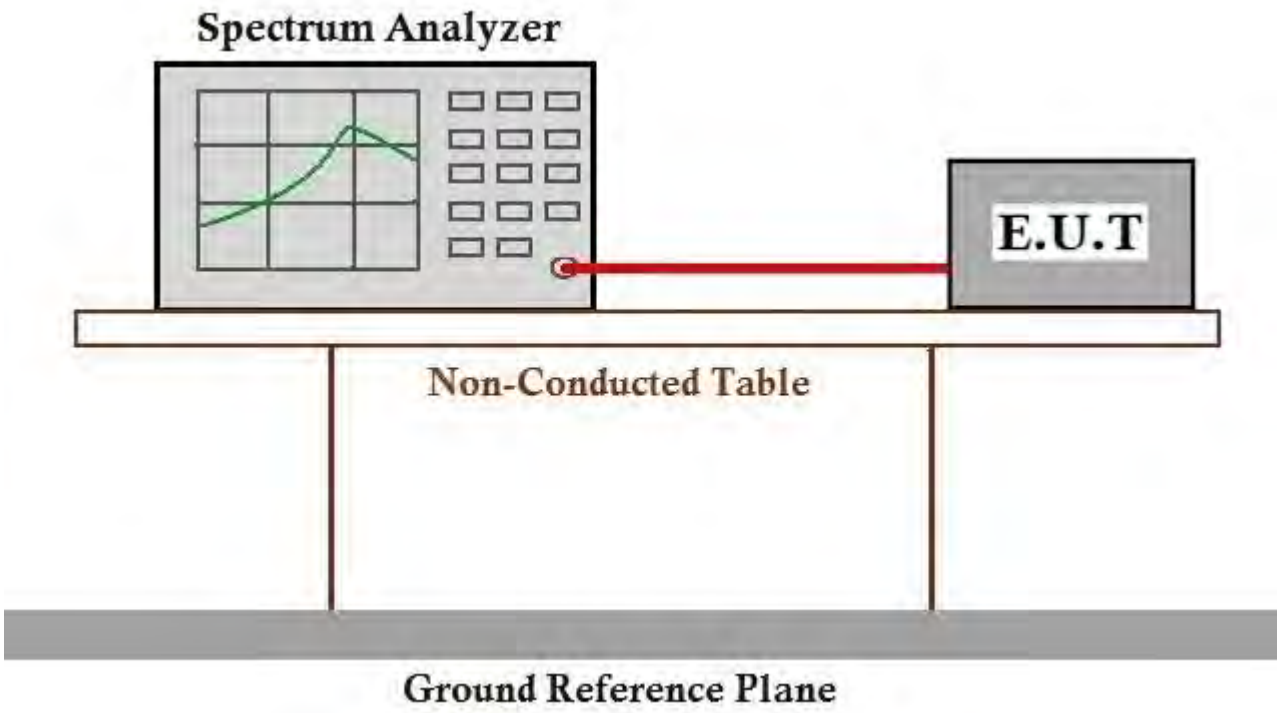
7.4.2 Test Setup Diagram



7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247

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7.5 Dwell Time

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1)(iii)
Test Method: ANSI C63.10 (2013) Section 7.8.4
Limit:

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

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 27.7 °C Humidity: 45.9 % RH Atmospheric Pressure: 1020 mbar

Pretest these modes to find the worst case: b:TX_Hop mode(Left earbuds)_Keep the EUT in frequency hopping mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

g:TX_Hop mode(Right earbuds)_Keep the EUT in frequency hopping mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

The worst case for final test: b:TX_Hop mode(Left earbuds)_Keep the EUT in frequency hopping mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

g:TX_Hop mode(Right earbuds)_Keep the EUT in frequency hopping mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

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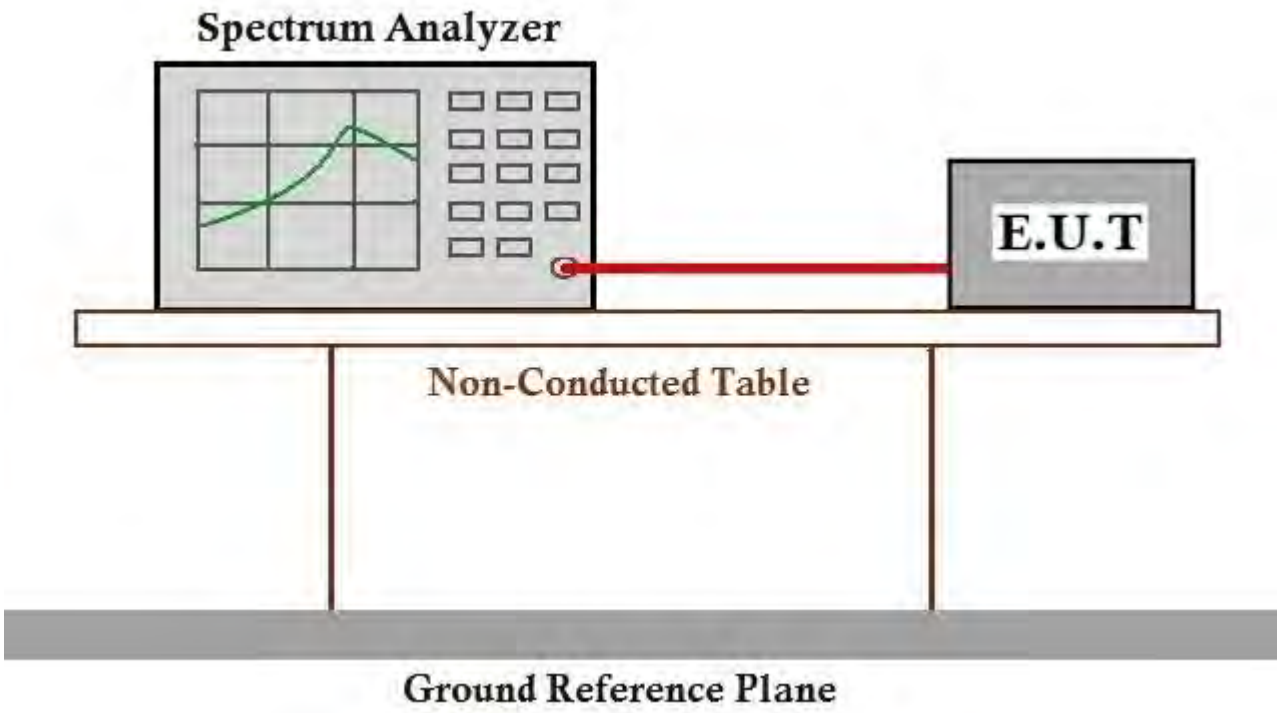
7.5.2 Test Setup Diagram



7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247

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7.6 Conducted Band Edges Measurement

Test Requirement	47 CFR Part 15, Subpart C 15.247(d)
Test Method:	ANSI C63.10 (2013) Section 7.8.6
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 27.7 °C Humidity: 45.9 % RH Atmospheric Pressure: 1020 mbar

Pretest these modes to find the worst case:	b:TX_Hop mode(Left earbuds)_Keep the EUT in frequency hopping mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. c:TX_non-Hop mode(Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. g:TX_Hop mode(Right earbuds)_Keep the EUT in frequency hopping mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. h:TX_non-Hop mode(Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
The worst case for final test:	b:TX_Hop mode(Left earbuds)_Keep the EUT in frequency hopping mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. c:TX_non-Hop mode(Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. g:TX_Hop mode(Right earbuds)_Keep the EUT in frequency hopping mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. h:TX_non-Hop mode(Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation, π/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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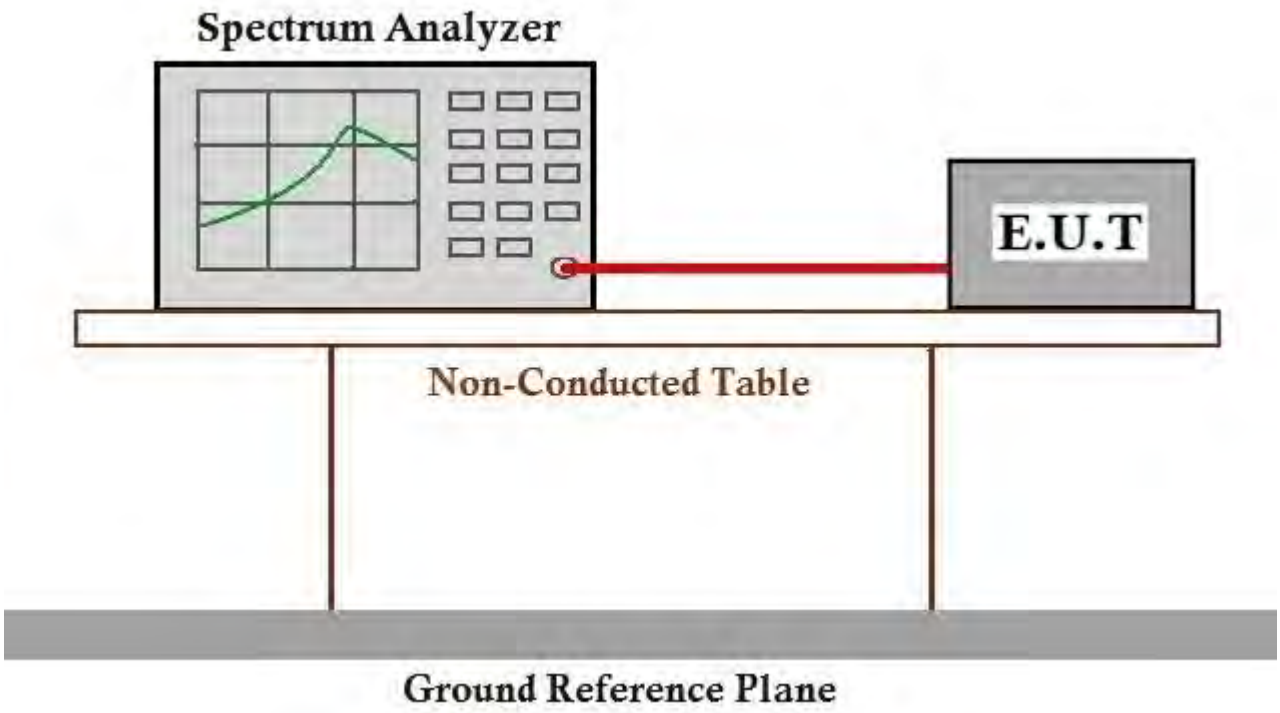
7.6.2 Test Setup Diagram



7.6.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247

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7.7 Conducted Spurious Emissions

Test Requirement	47 CFR Part 15, Subpart C 15.247(d)
Test Method:	ANSI C63.10 (2013) Section 7.8.8
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 27.7 °C Humidity: 45.9 % RH Atmospheric Pressure: 1020 mbar

Pretest these modes to find the worst case:	c:TX_non-Hop mode(Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. h:TX_non-Hop mode(Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
The worst case for final test:	c:TX_non-Hop mode(Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. h:TX_non-Hop mode(Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation, π/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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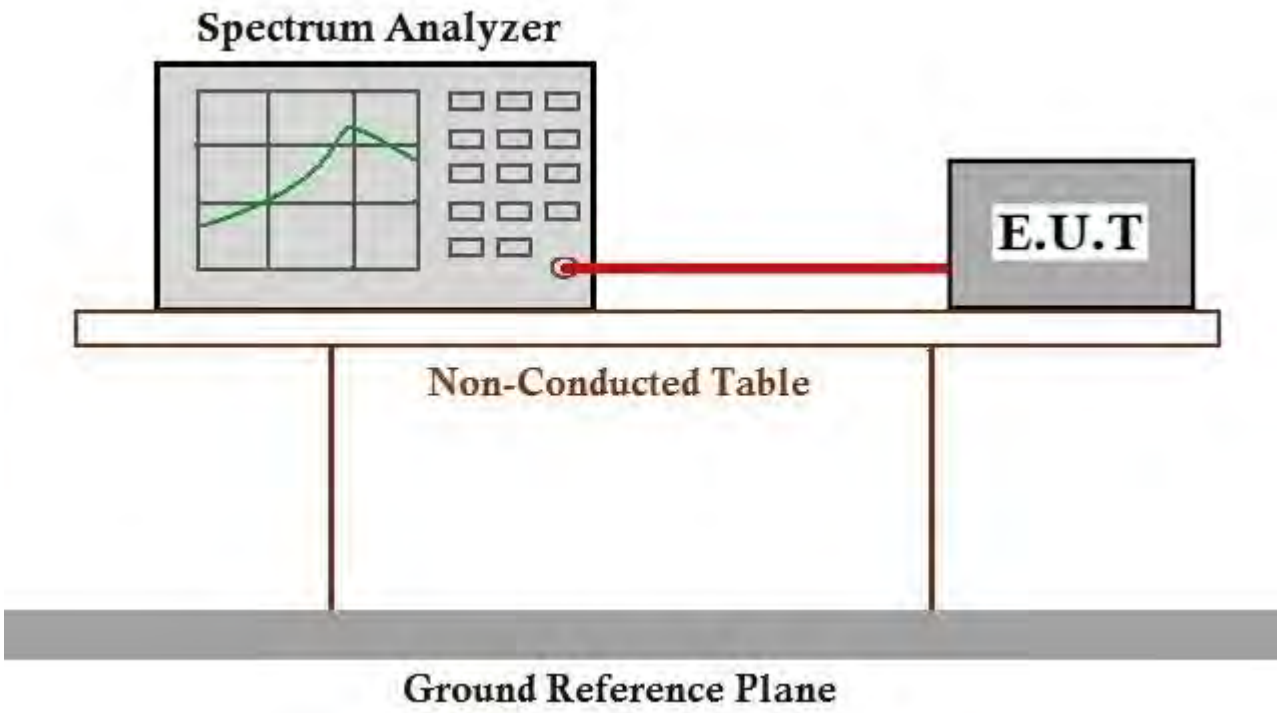
7.7.2 Test Setup Diagram



7.7.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247

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7.8 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method: ANSI C63.10 (2013) Section 6.10.5
Measurement Distance: 3m
Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3
Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.		

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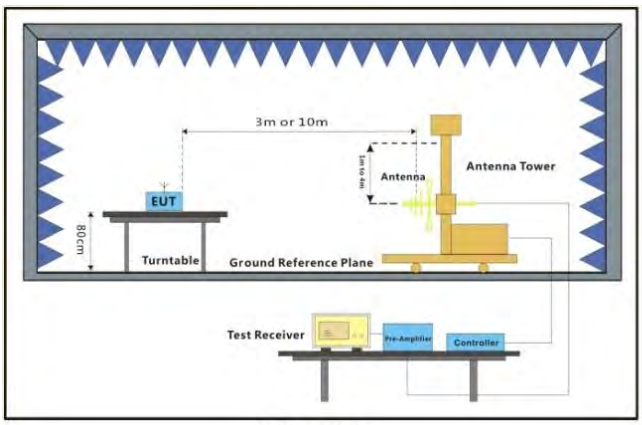
7.8.1 E.U.T. Operation

Operating Environment:

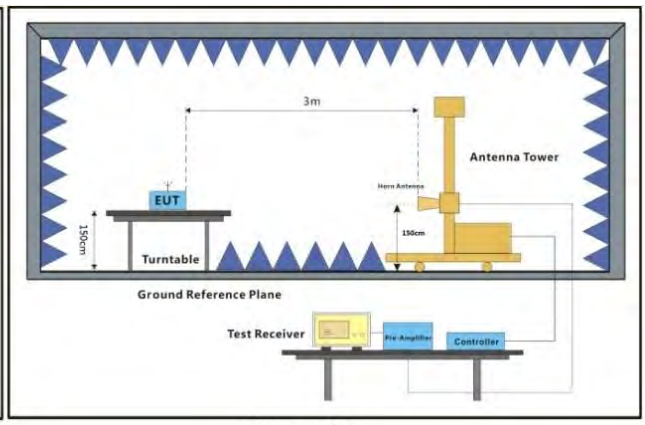
Temperature: 23.5 °C Humidity: 56.3 % RH Atmospheric Pressure: 1020 mbar

Pretest these modes to find the worst case:	c:TX_non-Hop mode(Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
	h:TX_non-Hop mode(Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
The worst case for final test:	c:TX_non-Hop mode(Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
	h:TX_non-Hop mode(Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

7.8.2 Test Setup Diagram



30MHz-1GHz



Above 1GHz

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7.8.3 Measurement Procedure and Data

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

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

c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

h. Test the EUT in the lowest channel, the middle channel, the Highest channel.

i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

j. Repeat above procedures until all frequencies measured was complete.

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

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

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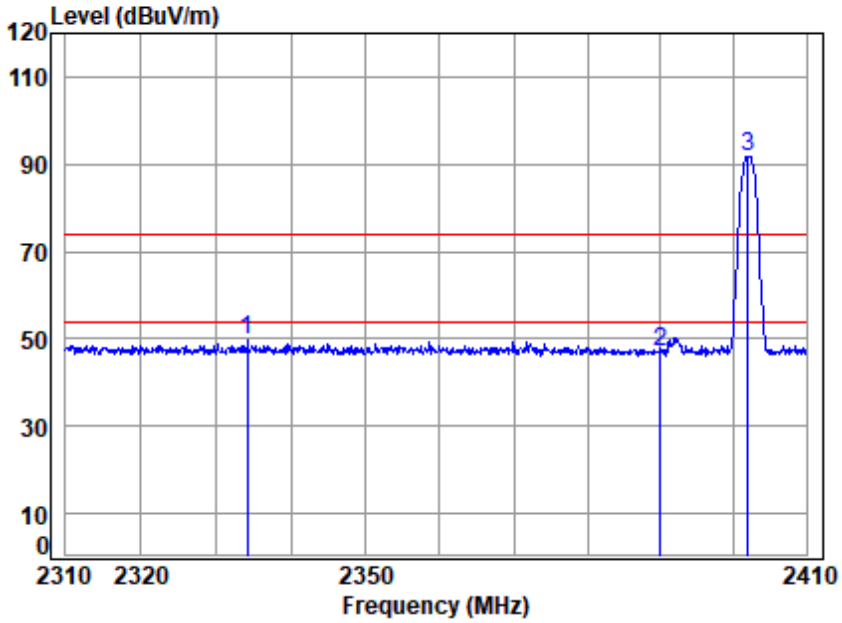
Mode:c; Polarization:Horizontal; Modulation:GFSK; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 21376CR/21377CR
Mode : 2402 Band edge
Note : BT

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2334.208	4.06	28.42	40.95	58.16	49.69	74.00	-24.31	peak
2	2390.000	3.69	28.52	40.97	55.56	46.80	74.00	-27.20	peak
3 *	2402.000	3.63	28.54	40.98	100.69	91.88	74.00	17.88	peak

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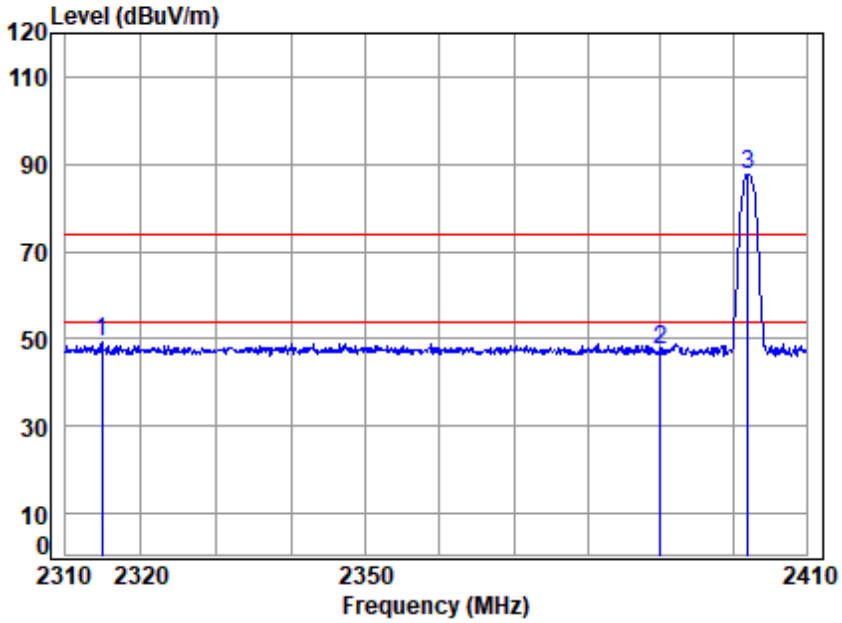
Mode:c; Polarization:Vertical; Modulation:GFSK; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 21376CR/21377CR
Mode : 2402 Band edge
Note : BT

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2314.802	4.19	28.39	40.94	57.64	49.28	74.00	-24.72	peak
2	2390.000	3.69	28.52	40.97	56.42	47.66	74.00	-26.34	peak
3 *	2402.000	3.63	28.54	40.98	96.39	87.58	74.00	13.58	peak

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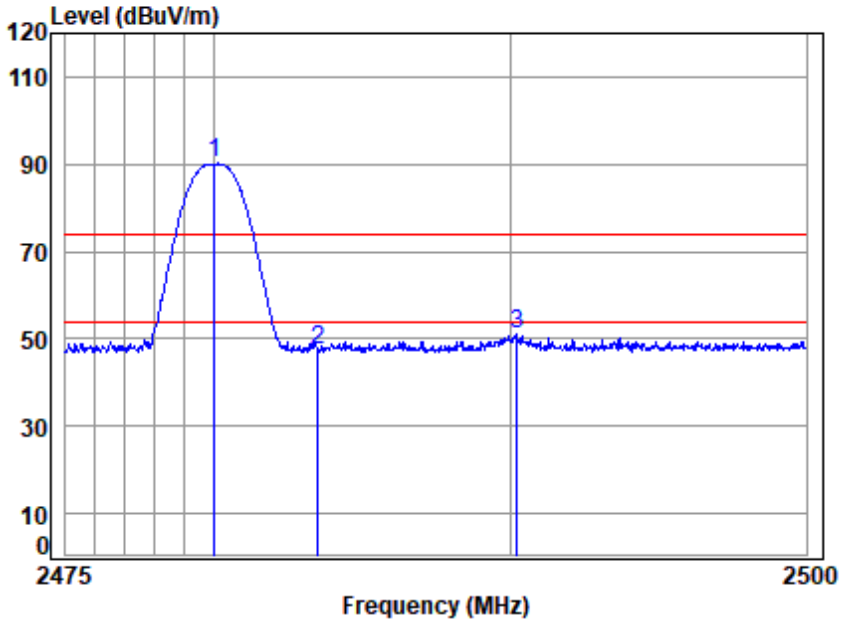
Mode:c; Polarization:Horizontal; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 21376CR/21377CR
Mode : 2480 Band edge
Note : BT

		Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	*	2480.000	3.99	28.67	41.01	98.47	90.12	74.00	16.12	peak
2		2483.500	4.01	28.67	41.01	55.59	47.26	74.00	-26.74	peak
3		2490.220	4.04	28.68	41.01	59.53	51.24	74.00	-22.76	peak

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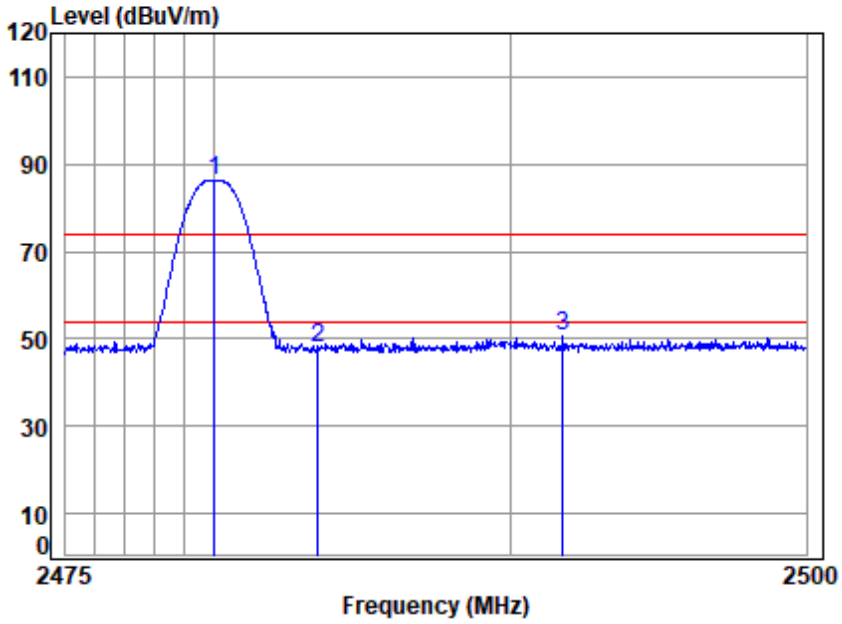
Mode:c; Polarization:Vertical; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 21376CR/21377CR
Mode : 2480 Band edge
Note : BT

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 *	2480.000	3.99	28.67	41.01	94.74	86.39	74.00	12.39	peak
2	2483.500	4.01	28.67	41.01	56.36	48.03	74.00	-25.97	peak
3	2491.747	4.04	28.69	41.01	58.95	50.67	74.00	-23.33	peak

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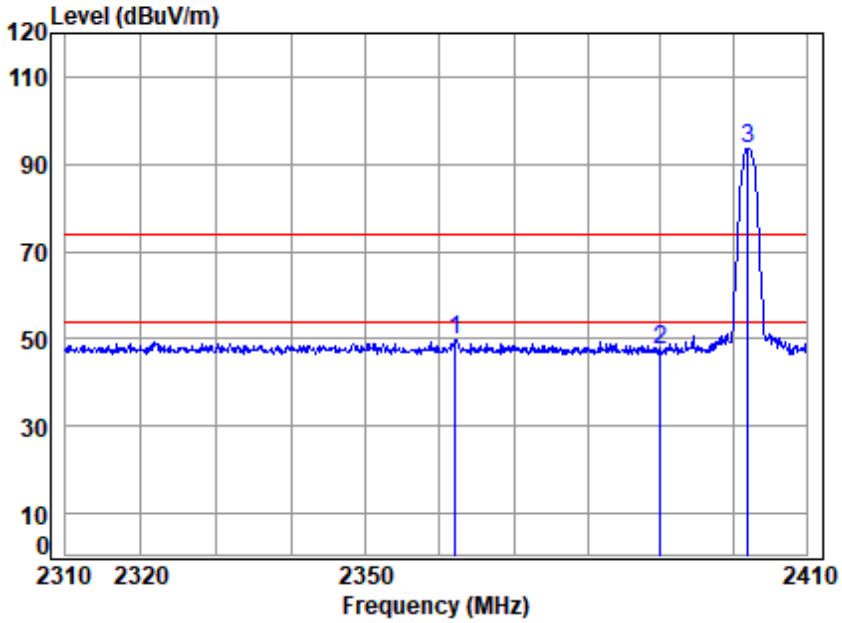
Mode:h; Polarization:Horizontal; Modulation:GFSK; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 21376CR/21377CR
Mode : 2402 Band edge
Note : BT

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2362.072	3.87	28.47	40.96	58.18	49.56	74.00	-24.44	peak
2	2390.000	3.69	28.52	40.97	56.17	47.41	74.00	-26.59	peak
3 *	2402.000	3.63	28.54	40.98	102.27	93.46	74.00	19.46	peak

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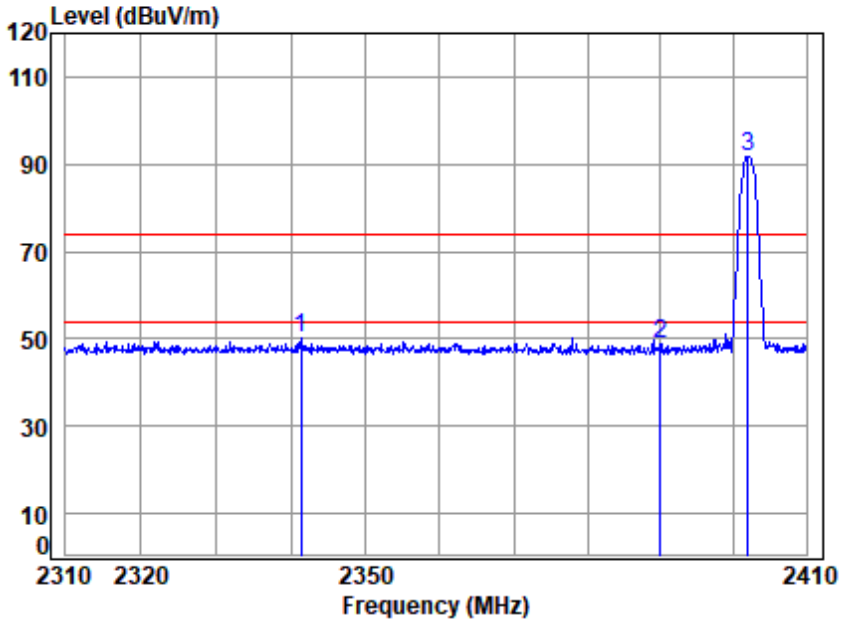
Mode:h; Polarization:Vertical; Modulation:GFSK; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 21376CR/21377CR
Mode : 2402 Band edge
Note : BT

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2341.342	4.01	28.44	40.95	58.57	50.07	74.00	-23.93	peak
2	2390.000	3.69	28.52	40.97	57.43	48.67	74.00	-25.33	peak
3 *	2402.000	3.63	28.54	40.98	100.47	91.66	74.00	17.66	peak

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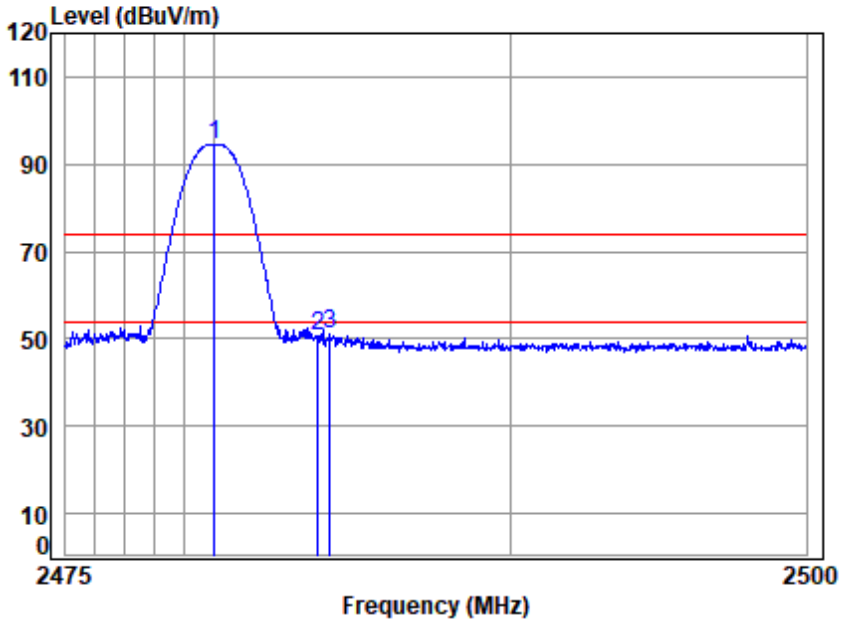
Mode:h; Polarization:Horizontal; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 21376CR/21377CR
Mode : 2480 Band edge
Note : BT

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 *	2480.000	3.99	28.67	41.01	102.82	94.47	74.00	20.47	peak
2	2483.500	4.01	28.67	41.01	59.17	50.84	74.00	-23.16	peak
3	2483.896	4.01	28.67	41.01	59.55	51.22	74.00	-22.78	peak

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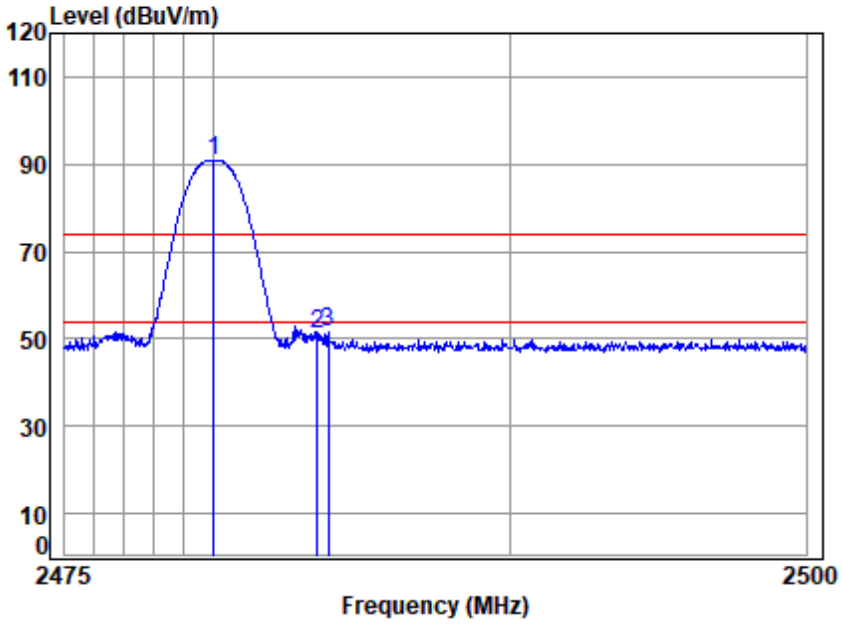
Mode:h; Polarization:Vertical; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 21376CR/21377CR
Mode : 2480 Band edge
Note : BT

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 *	2480.000	3.99	28.67	41.01	99.18	90.83	74.00	16.83	peak
2	2483.500	4.01	28.67	41.01	59.65	51.32	74.00	-22.68	peak
3	2483.846	4.01	28.67	41.01	60.11	51.78	74.00	-22.22	peak

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7.9 Radiated Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method: ANSI C63.10 (2013) Section 6.4,6.5,6.6
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.		

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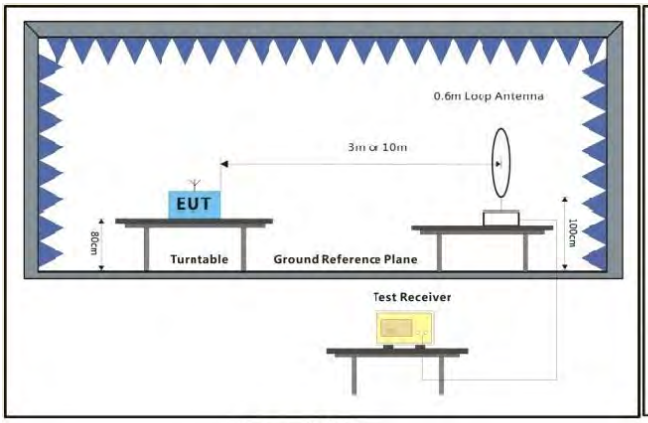
7.9.1 E.U.T. Operation

Operating Environment:

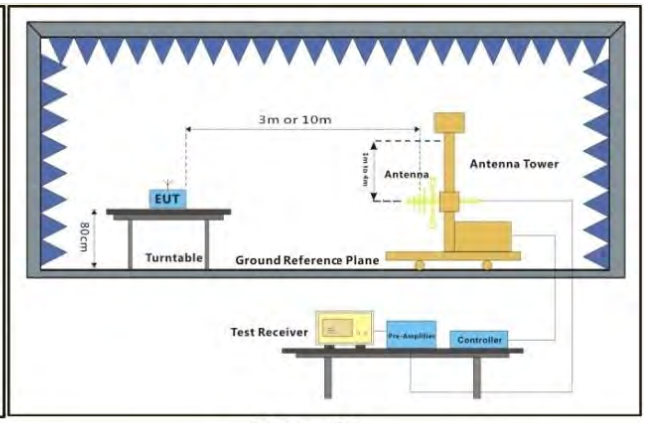
Temperature: 25 °C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar

Pretest these modes to find the worst case:	c:TX_non-Hop mode(Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
	h:TX_non-Hop mode(Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
The worst case for final test:	c:TX_non-Hop mode(Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
	h:TX_non-Hop mode(Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

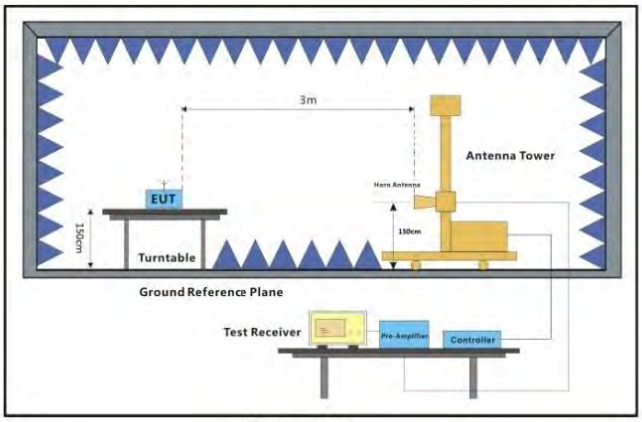
7.9.2 Test Setup Diagram



Below 30MHz



30MHz-1GHz



Above 1GHz

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7.9.3 Measurement Procedure and Data

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

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

c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

h. Test the EUT in the lowest channel, the middle channel, the Highest channel.

i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

j. Repeat above procedures until all frequencies measured was complete.

Remark:

1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.

2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and 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.

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

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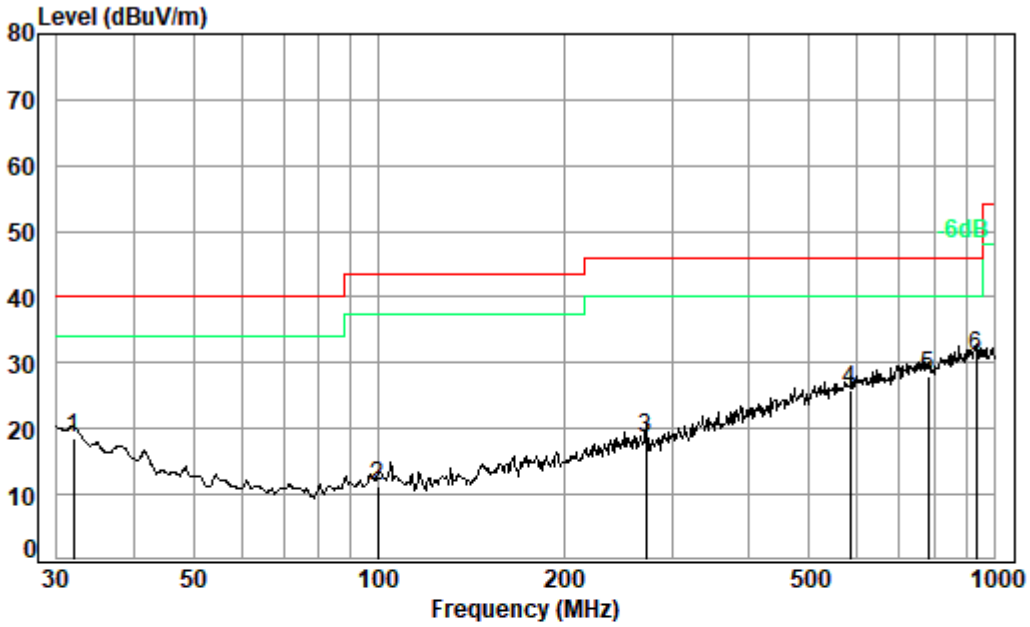
Radiated emission below 1GHz

Mode:c; Polarization:Horizontal



Condition: 3m HORIZONTAL
Job No. : 21376CR
Test mode: c

	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	31.95	0.60	21.40	27.72	24.30	18.58	40.00	-21.42	QP
2	99.88	1.20	13.99	27.64	23.82	11.37	43.50	-32.13	QP
3	272.28	1.78	18.91	26.96	24.91	18.64	46.00	-27.36	QP
4	584.79	2.69	26.32	28.12	25.05	25.94	46.00	-20.06	QP
5	782.35	3.15	28.40	27.75	24.29	28.09	46.00	-17.91	QP
6 pp	935.55	3.64	29.98	27.15	24.46	30.93	46.00	-15.07	QP

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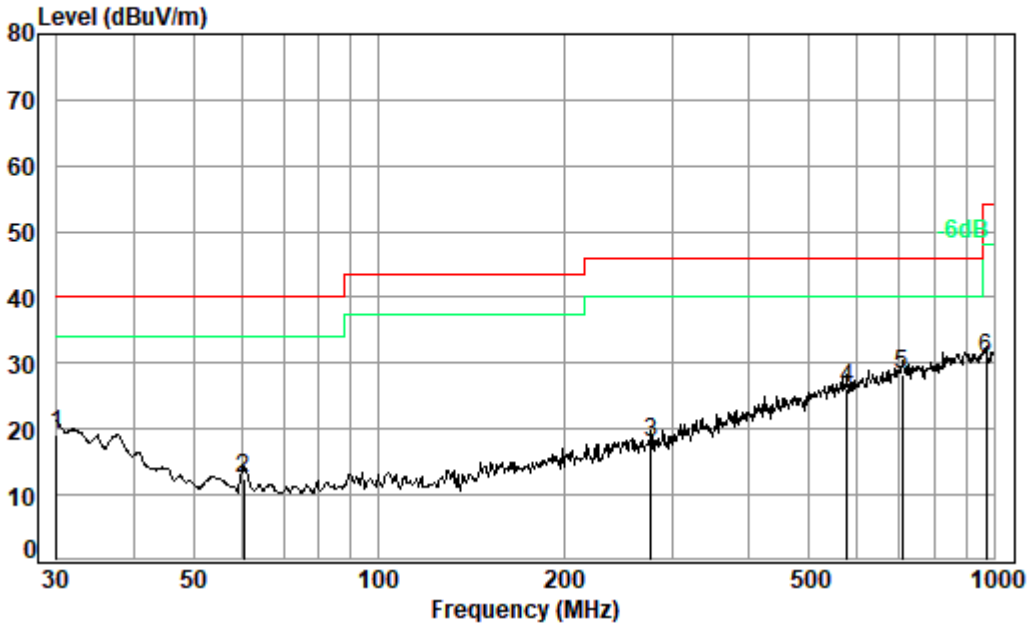
Mode:c; Polarization:Vertical



Condition: 3m VERTICAL
Job No. : 21376CR
Test mode: c

	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	30.00	0.60	22.50	27.73	23.93	19.30	40.00	-20.70	QP
2	60.28	0.80	13.19	27.68	26.04	12.35	40.00	-27.65	QP
3	277.09	1.80	18.84	26.94	24.19	17.89	46.00	-28.11	QP
4	576.64	2.68	26.16	28.10	25.41	26.15	46.00	-19.85	QP
5 pp	709.18	2.93	27.96	27.91	25.39	28.37	46.00	-17.63	QP
6	972.34	3.67	30.17	27.01	23.77	30.60	54.00	-23.40	QP

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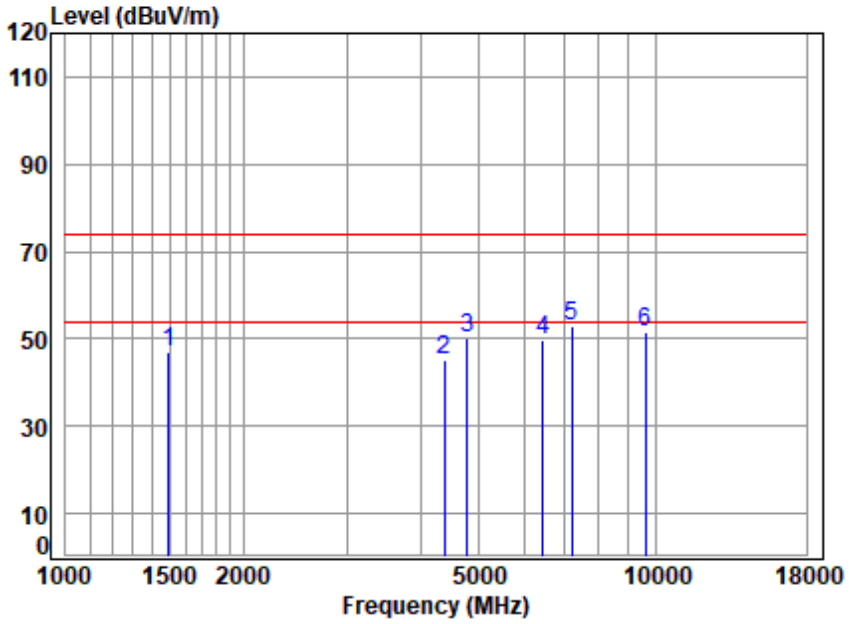
Above 1GHz

Mode:c; Polarization:Horizontal; Modulation:GFSK; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 21376CR/21377CR
Mode : 2402 TX SE
Note : BT

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1494.455	2.96	25.78	40.50	58.79	47.03	74.00	-26.97	peak
2	4392.376	6.66	33.42	42.47	47.71	45.32	74.00	-28.68	peak
3	4804.000	6.80	33.97	42.77	52.29	50.29	74.00	-23.71	peak
4	6451.353	7.54	35.55	41.98	48.81	49.92	74.00	-24.08	peak
5	7206.000	8.44	36.07	41.58	50.20	53.13	74.00	-20.87	peak
6	9608.000	9.17	37.67	38.57	43.10	51.37	74.00	-22.63	peak

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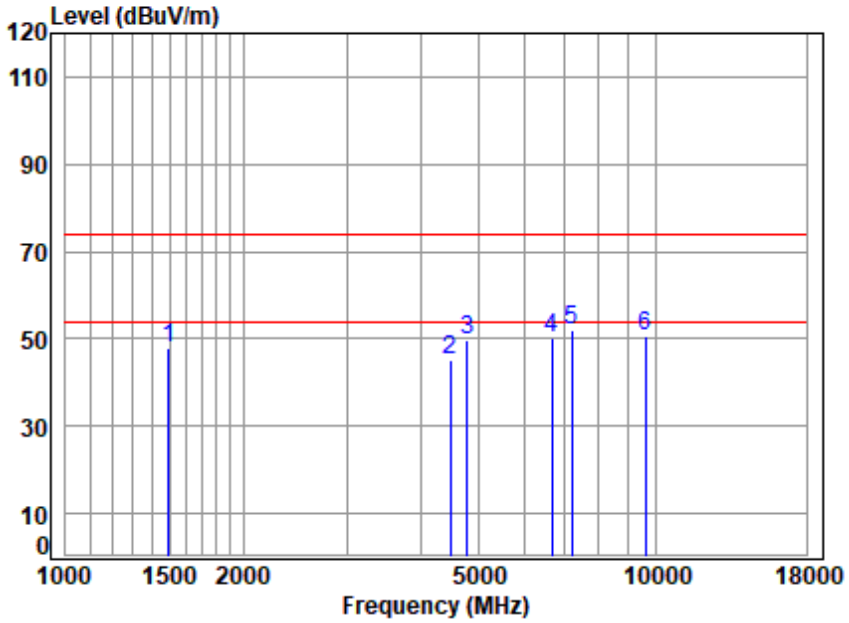
Mode:c; Polarization:Vertical; Modulation:GFSK; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 21376CR/21377CR
Mode : 2402 TX SE
Note : BT

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1494.455	2.96	25.78	40.50	59.85	48.09	74.00	-25.91	peak
2	4495.125	6.39	33.59	42.55	47.73	45.16	74.00	-28.84	peak
3	4804.000	6.80	33.97	42.77	51.60	49.60	74.00	-24.40	peak
4	6679.040	8.27	35.71	41.85	47.98	50.11	74.00	-23.89	peak
5	7206.000	8.44	36.07	41.58	49.21	52.14	74.00	-21.86	peak
6	9608.000	9.17	37.67	38.57	42.53	50.80	74.00	-23.20	peak

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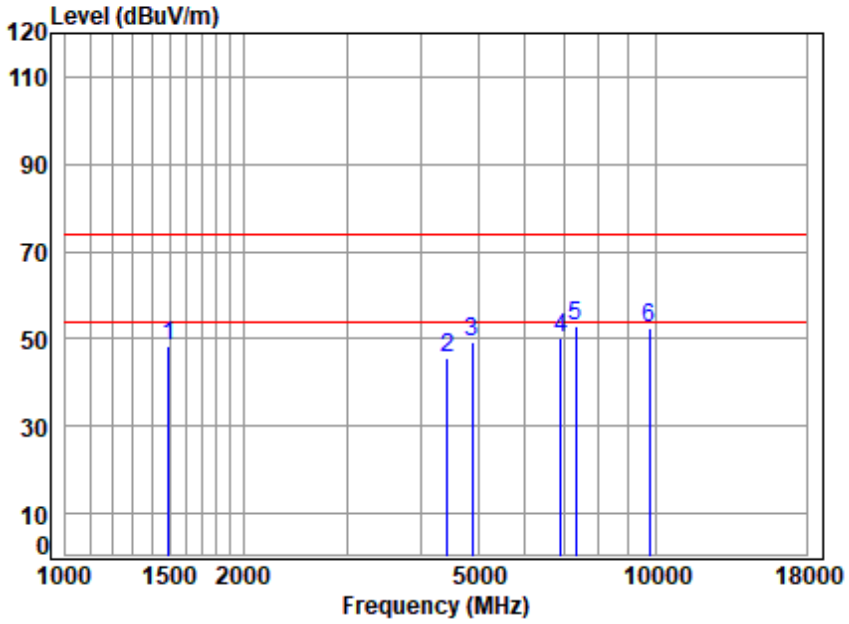
Mode:c; Polarization:Horizontal; Modulation:GFSK; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 21376CR/21377CR
Mode : 2441 TX SE
Note : BT

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1494.455	2.96	25.78	40.50	60.29	48.53	74.00	-25.47	peak
2	4430.628	6.59	33.48	42.50	48.11	45.68	74.00	-28.32	peak
3	4882.000	7.03	34.06	42.82	51.09	49.36	74.00	-24.64	peak
4	6914.763	7.83	35.85	41.73	48.32	50.27	74.00	-23.73	peak
5	7323.000	8.36	36.16	41.52	50.13	53.13	74.00	-20.87	peak
6	9764.000	9.30	37.76	38.34	43.82	52.54	74.00	-21.46	peak

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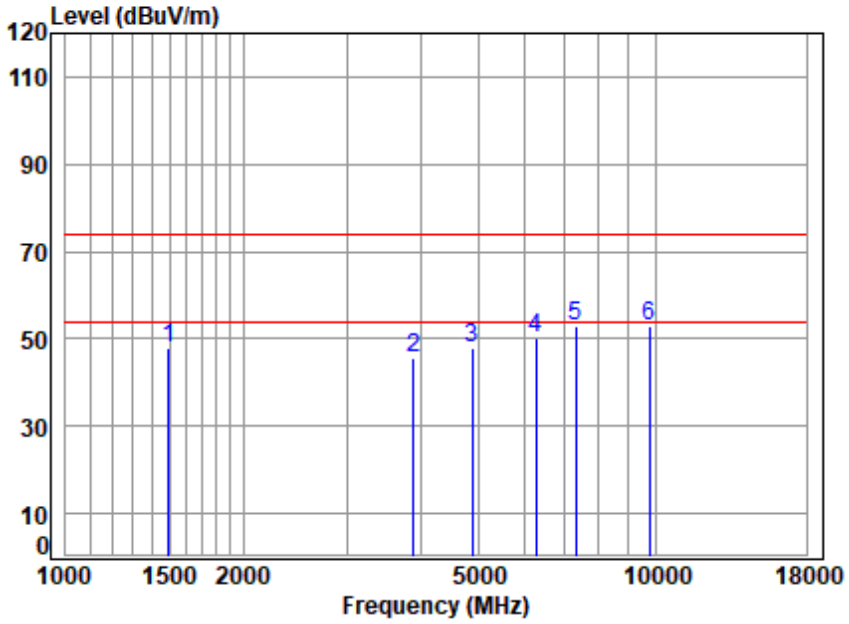
Mode:c; Polarization:Vertical; Modulation:GFSK; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 21376CR/21377CR
Mode : 2441 TX SE
Note : BT

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1494.455	2.96	25.78	40.50	59.47	47.71	74.00	-26.29	peak
2	3890.255	6.11	32.49	42.06	48.92	45.46	74.00	-28.54	peak
3	4882.000	7.03	34.06	42.82	49.83	48.10	74.00	-25.90	peak
4	6267.553	7.35	35.37	42.08	49.52	50.16	74.00	-23.84	peak
5	7323.000	8.36	36.16	41.52	50.04	53.04	74.00	-20.96	peak
6	9764.000	9.30	37.76	38.34	44.35	53.07	74.00	-20.93	peak

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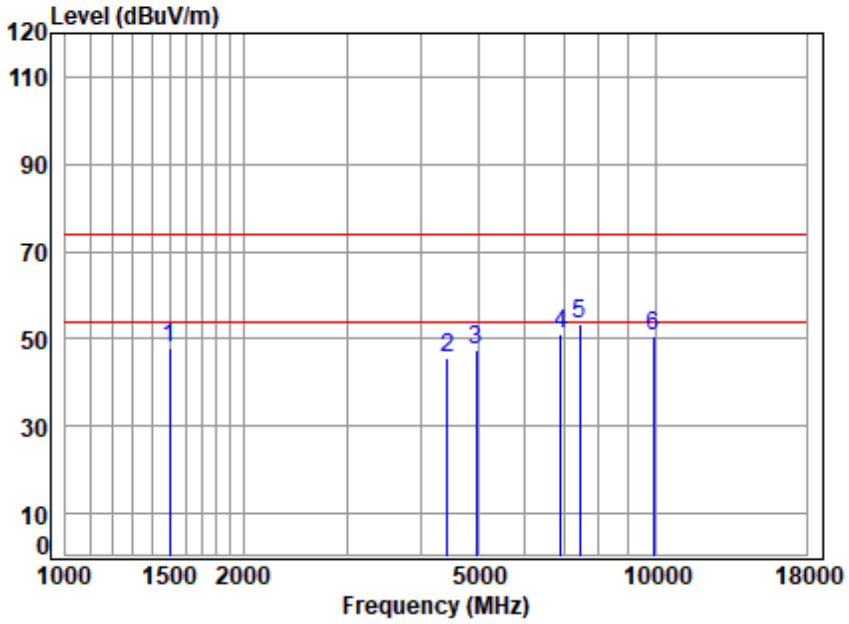
Mode:c; Polarization:Horizontal; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 21376CR/21377CR
Mode : 2480 TX SE
Note : BT

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1498.781	2.98	25.80	40.51	59.61	47.88	74.00	-26.12	peak
2	4443.453	6.55	33.50	42.51	47.93	45.47	74.00	-28.53	peak
3	4960.000	7.02	34.15	42.87	49.30	47.60	74.00	-26.40	peak
4	6914.763	7.83	35.85	41.73	49.08	51.03	74.00	-22.97	peak
5	7440.000	8.10	36.25	41.46	50.40	53.29	74.00	-20.71	peak
6	9920.000	8.96	37.85	38.12	42.09	50.78	74.00	-23.22	peak

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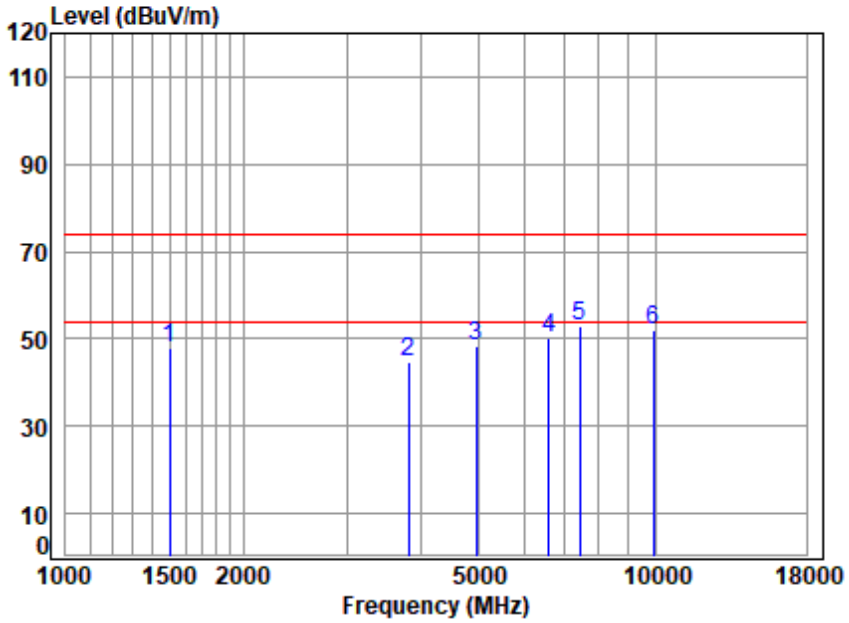
Mode:c; Polarization:Vertical; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 21376CR/21377CR
Mode : 2480 TX SE
Note : BT

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1498.781	2.98	25.80	40.51	59.84	48.11	74.00	-25.89	peak
2	3812.336	6.89	32.34	42.00	47.66	44.89	74.00	-29.11	peak
3	4960.000	7.02	34.15	42.87	50.27	48.57	74.00	-25.43	peak
4	6602.265	8.00	35.66	41.89	48.34	50.11	74.00	-23.89	peak
5	7440.000	8.10	36.25	41.46	50.08	52.97	74.00	-21.03	peak
6	9920.000	8.96	37.85	38.12	43.28	51.97	74.00	-22.03	peak

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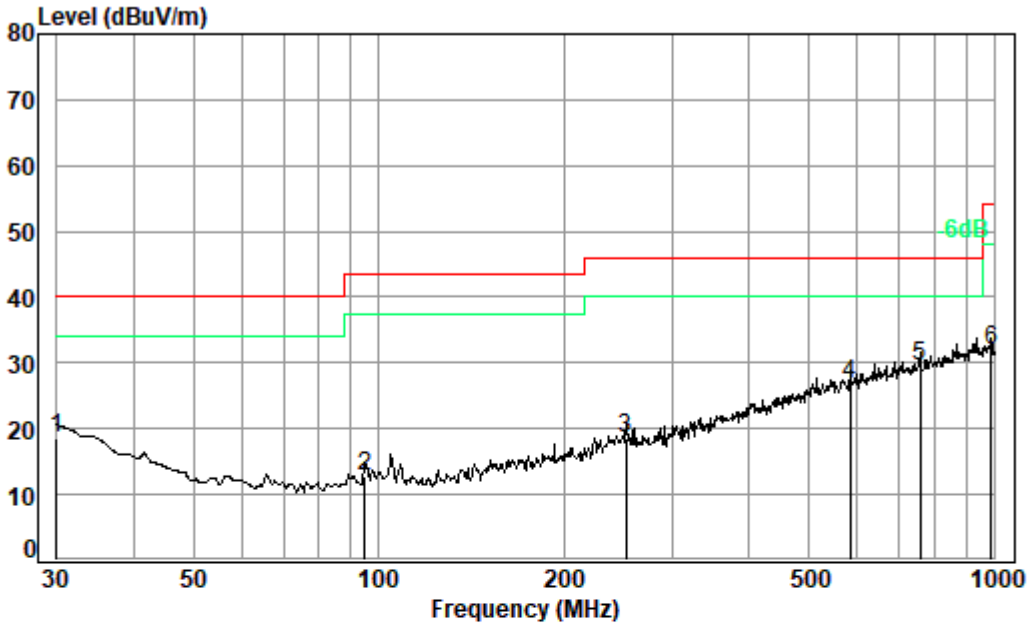
Mode:h; Polarization:Horizontal



Condition: 3m HORIZONTAL
Job No. : 21376CR
Test mode: h

	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	30.00	0.60	22.50	27.73	23.33	18.70	40.00	-21.30	QP
2	95.09	1.15	13.57	27.64	25.84	12.92	43.50	-30.58	QP
3	252.06	1.68	18.98	27.01	24.91	18.56	46.00	-27.44	QP
4	582.74	2.68	26.28	28.12	26.07	26.91	46.00	-19.09	QP
5 pp	758.04	3.08	28.26	27.80	26.11	29.65	46.00	-16.35	QP
6	989.54	3.69	30.25	26.95	24.84	31.83	54.00	-22.17	QP

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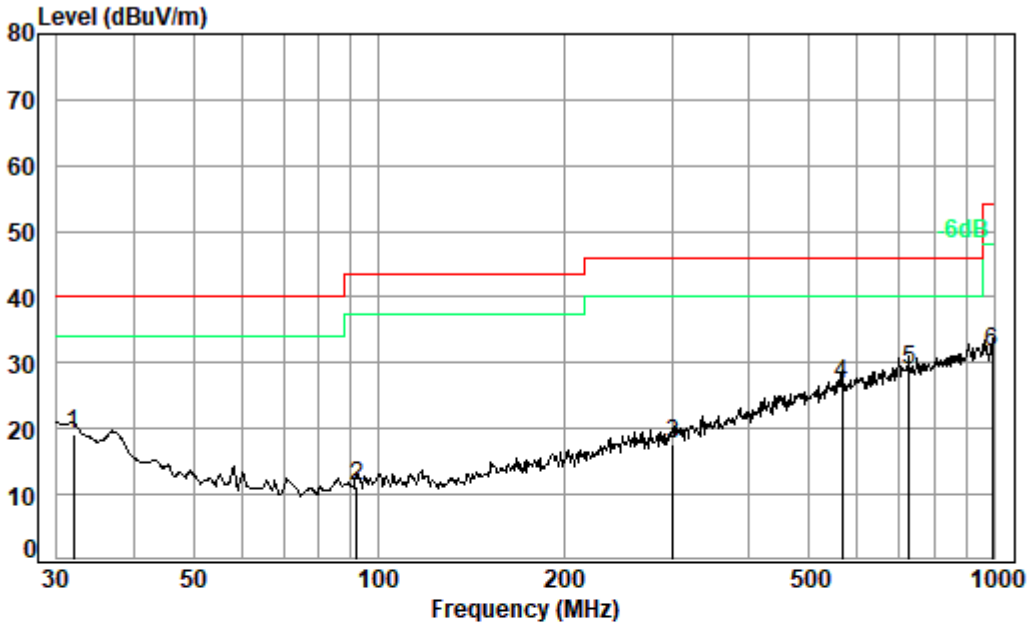
Mode:h; Polarization:Vertical



Condition: 3m VERTICAL
Job No. : 21376CR
Test mode: h

	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	31.95	0.60	21.40	27.72	24.84	19.12	40.00	-20.88	QP
2	92.14	1.12	13.30	27.65	24.43	11.20	43.50	-32.30	QP
3	300.37	1.90	19.61	26.89	23.03	17.65	46.00	-28.35	QP
4	566.62	2.67	25.97	28.06	26.24	26.82	46.00	-19.18	QP
5 pp	726.81	2.99	28.07	27.87	25.80	28.99	46.00	-17.01	QP
6	993.01	3.69	30.27	26.94	24.76	31.78	54.00	-22.22	QP

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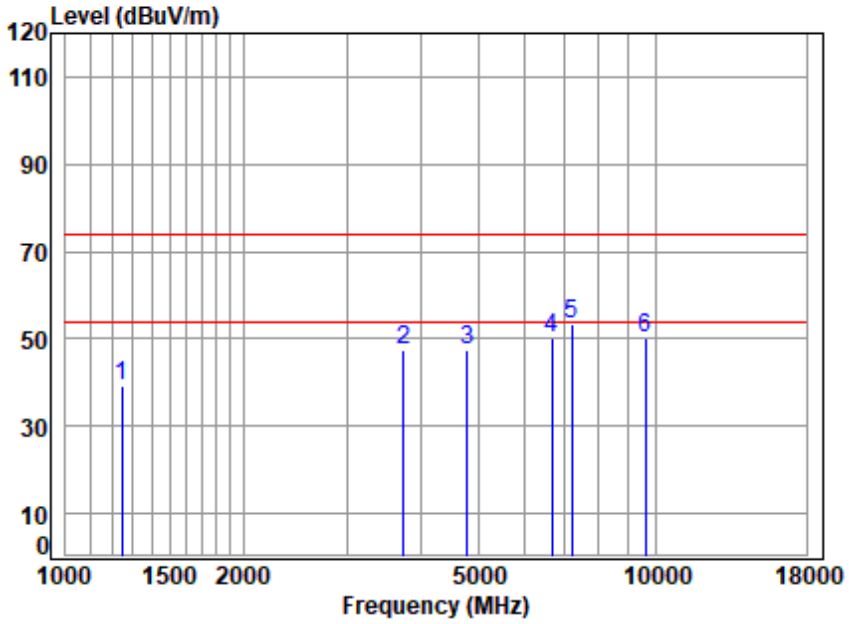
Mode:h; Polarization:Horizontal; Modulation:GFSK; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 21376CR/21377CR
Mode : 2402 TX SE
Note : BT

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1245.663	2.76	24.79	40.32	51.81	39.04	74.00	-34.96	peak
2	3746.792	6.11	32.21	41.94	50.88	47.26	74.00	-26.74	peak
3	4804.000	6.80	33.97	42.77	49.33	47.33	74.00	-26.67	peak
4	6679.040	8.27	35.71	41.85	48.15	50.28	74.00	-23.72	peak
5	7206.000	8.44	36.07	41.58	50.29	53.22	74.00	-20.78	peak
6	9608.000	9.17	37.67	38.57	42.02	50.29	74.00	-23.71	peak

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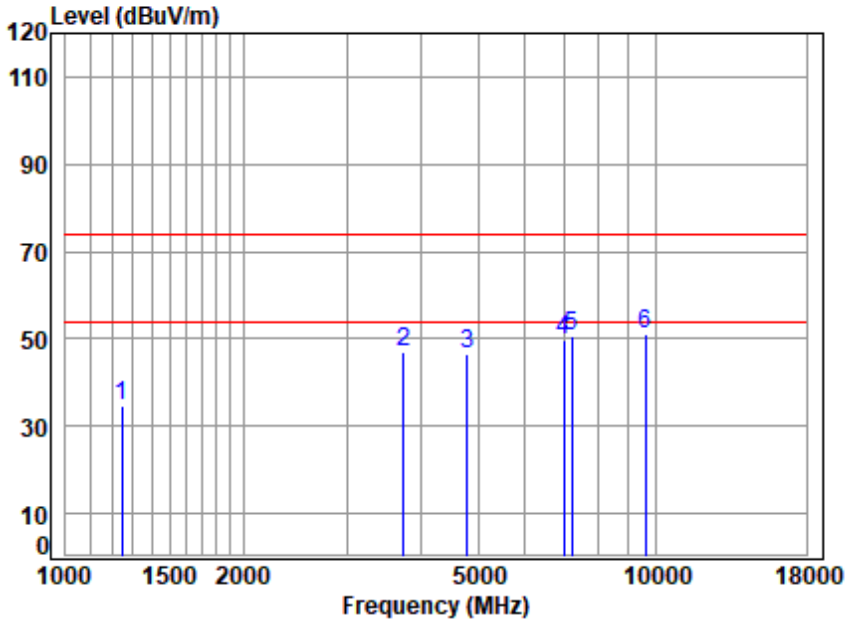
Mode:h; Polarization:Vertical; Modulation:GFSK; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 21376CR/21377CR
Mode : 2402 TX SE
Note : BT

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1245.663	2.76	24.79	40.32	47.44	34.67	74.00	-39.33	peak
2	3735.978	5.92	32.19	41.93	50.95	47.13	74.00	-26.87	peak
3	4804.000	6.80	33.97	42.77	48.74	46.74	74.00	-27.26	peak
4	6995.172	7.81	35.90	41.69	47.76	49.78	74.00	-24.22	peak
5	7206.000	8.44	36.07	41.58	47.49	50.42	74.00	-23.58	peak
6	9608.000	9.17	37.67	38.57	42.76	51.03	74.00	-22.97	peak

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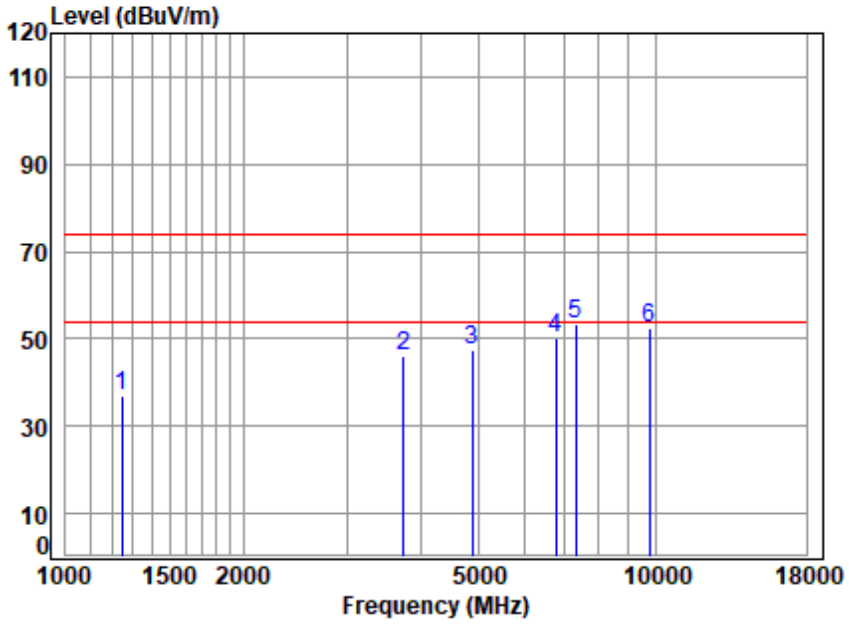
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Mode:h; Polarization:Horizontal; Modulation:GFSK; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 21376CR/21377CR
Mode : 2441 TX SE
Note : BT

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1245.663	2.76	24.79	40.32	49.72	36.95	74.00	-37.05	peak
2	3735.978	5.92	32.19	41.93	50.07	46.25	74.00	-27.75	peak
3	4882.000	7.03	34.06	42.82	49.24	47.51	74.00	-26.49	peak
4	6776.265	8.07	35.77	41.80	48.19	50.23	74.00	-23.77	peak
5	7323.000	8.36	36.16	41.52	50.56	53.56	74.00	-20.44	peak
6	9764.000	9.30	37.76	38.34	43.63	52.35	74.00	-21.65	peak

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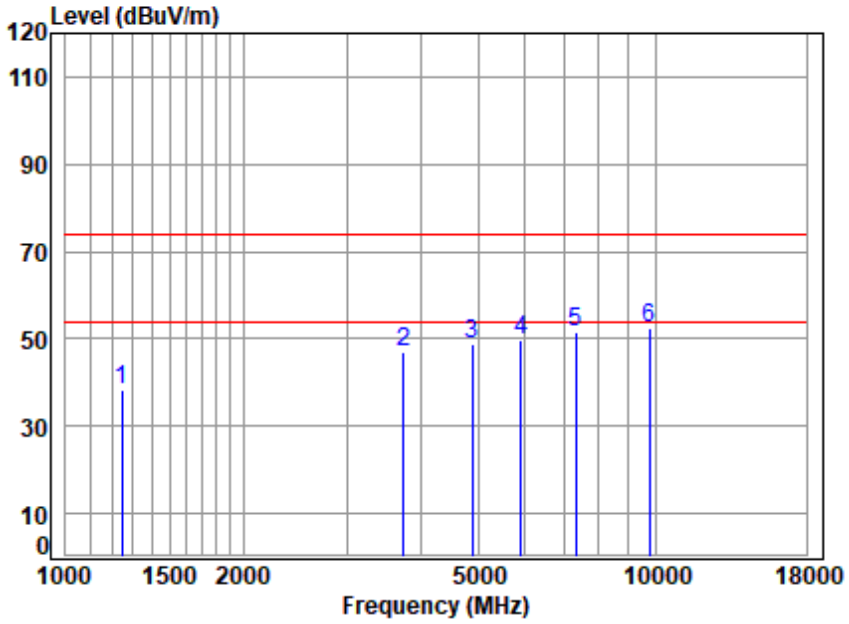
Mode:h; Polarization:Vertical; Modulation:GFSK; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 21376CR/21377CR
Mode : 2441 TX SE
Note : BT

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1245.663	2.76	24.79	40.32	50.99	38.22	74.00	-35.78	peak
2	3735.978	5.92	32.19	41.93	50.89	47.07	74.00	-26.93	peak
3	4882.000	7.03	34.06	42.82	50.41	48.68	74.00	-25.32	peak
4	5915.516	7.14	35.02	42.29	49.79	49.66	74.00	-24.34	peak
5	7323.000	8.36	36.16	41.52	48.63	51.63	74.00	-22.37	peak
6	9764.000	9.30	37.76	38.34	43.89	52.61	74.00	-21.39	peak

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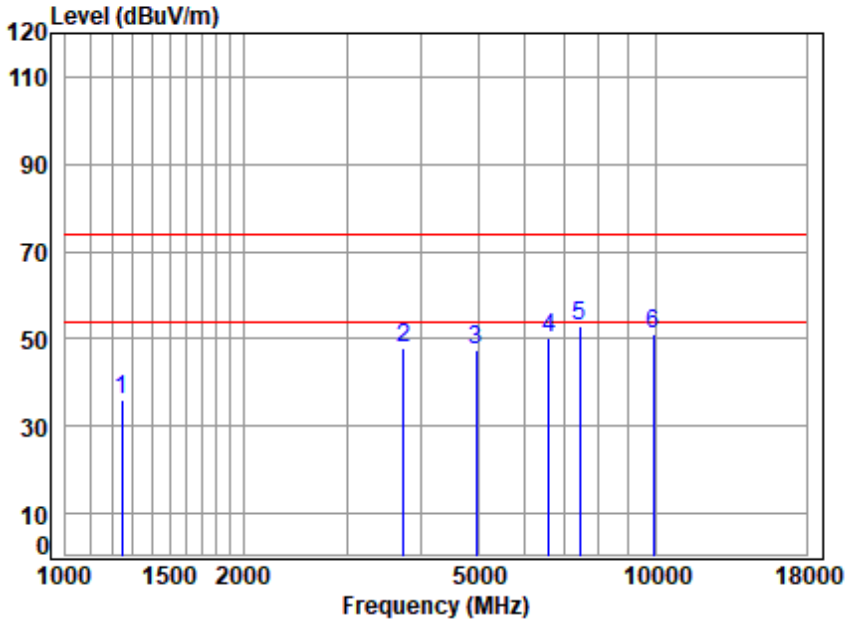
Mode:h; Polarization:Horizontal; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m Horizontal
Job No : 21376CR/21377CR
Mode : 2480 TX SE
Note : BT

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1245.663	2.76	24.79	40.32	48.94	36.17	74.00	-37.83	peak
2	3735.978	5.92	32.19	41.93	51.80	47.98	74.00	-26.02	peak
3	4960.000	7.02	34.15	42.87	49.35	47.65	74.00	-26.35	peak
4	6602.265	8.00	35.66	41.89	48.43	50.20	74.00	-23.80	peak
5	7440.000	8.10	36.25	41.46	50.22	53.11	74.00	-20.89	peak
6	9920.000	8.96	37.85	38.12	42.40	51.09	74.00	-22.91	peak

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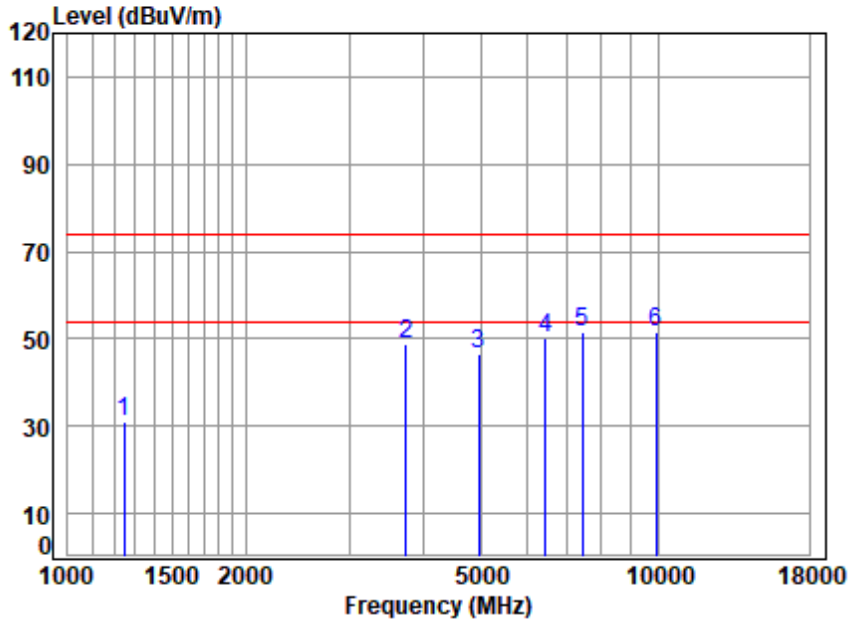
Mode:h; Polarization:Vertical; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 21376CR/21377CR
Mode : 2480 TX SE
Note : BT

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1245.663	2.76	24.79	40.32	43.96	31.19	74.00	-42.81	peak
2	3746.792	6.11	32.21	41.94	52.30	48.68	74.00	-25.32	peak
3	4960.000	7.02	34.15	42.87	48.44	46.74	74.00	-27.26	peak
4	6451.353	7.54	35.55	41.98	48.99	50.10	74.00	-23.90	peak
5	7440.000	8.10	36.25	41.46	48.81	51.70	74.00	-22.30	peak
6	9920.000	8.96	37.85	38.12	42.71	51.40	74.00	-22.60	peak

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8 Photographs

8.1 Test Setup

Please refer to setup photos.

8.2 EUT Constructional Details (EUT Photos)

Please Refer to external and internal photos for details.

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9 Appendix

9.1 Appendix 15.247-Left earbuds:

1. Bandwidth

1.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	20dB Bandwidth Test Result (MHz)	Verdict
GFSK	2402	SISO	1	0.960	PASS
	2441	SISO	1	0.961	PASS
	2480	SISO	1	0.961	PASS
Pi/4DQPSK	2402	SISO	1	1.337	PASS
	2441	SISO	1	1.351	PASS
	2480	SISO	1	1.333	PASS
8DPSK	2402	SISO	1	1.312	PASS
	2441	SISO	1	1.314	PASS
	2480	SISO	1	1.311	PASS

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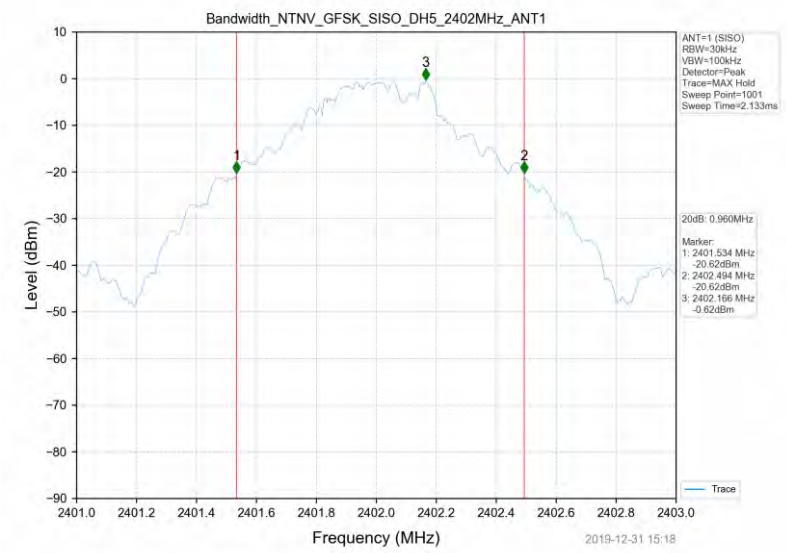
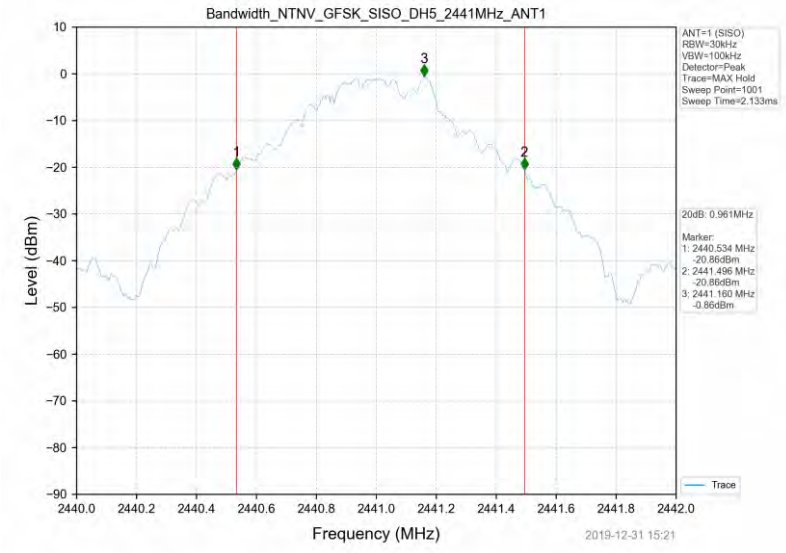
1.2 Test Graph - 20dB Bandwidth

GFSK_2402MHz_DH5_SISO_ANT1



GFSK_2441MHz_DH5_SISO_ANT1



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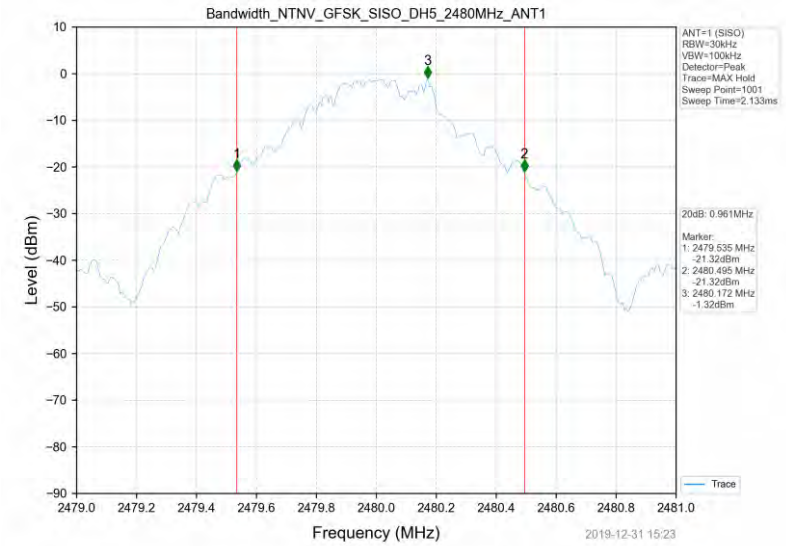
GFSK_2480MHz_DH5_SISO_ANT1

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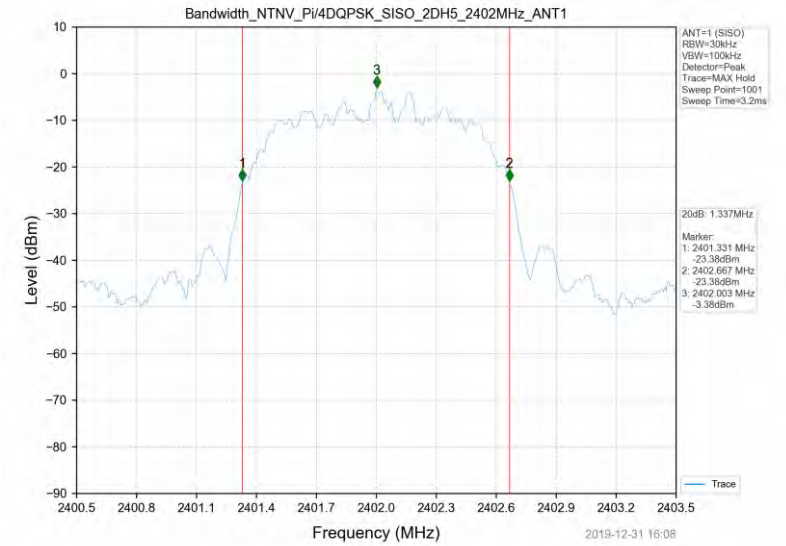

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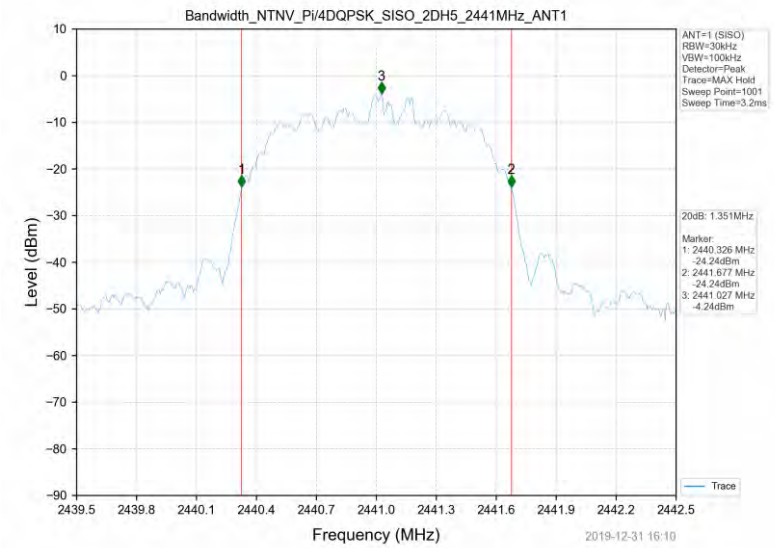
Pi/4DQPSK_2441MHz_2DH5_SISO_ANT1


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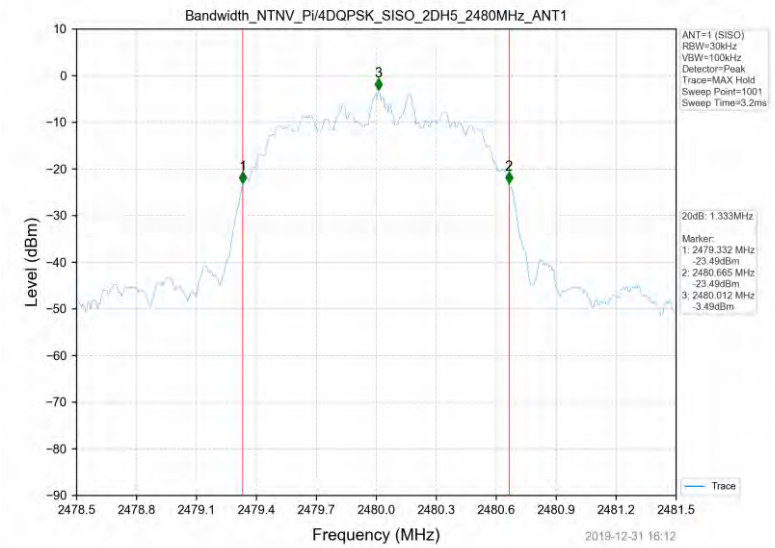

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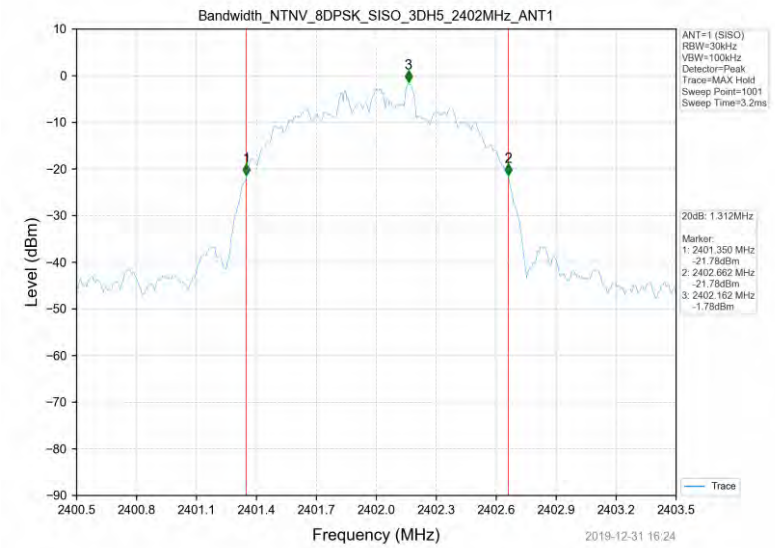
8DPSK_2402MHz_3DH5_SISO_ANT1


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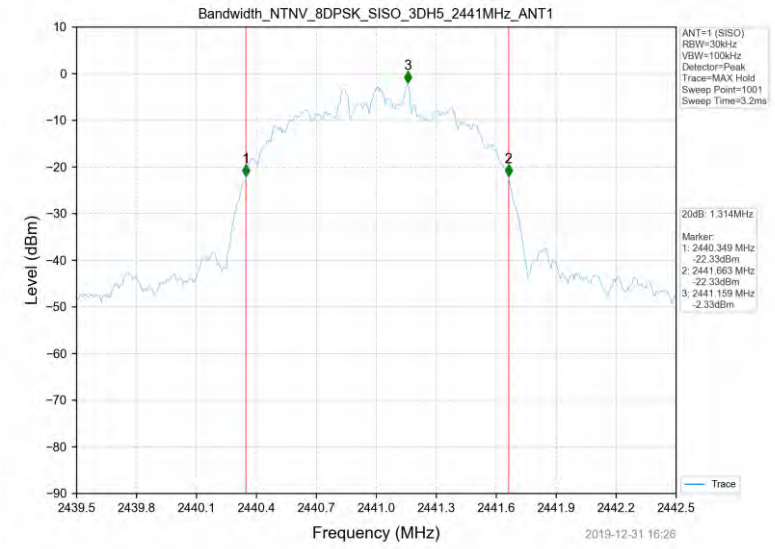

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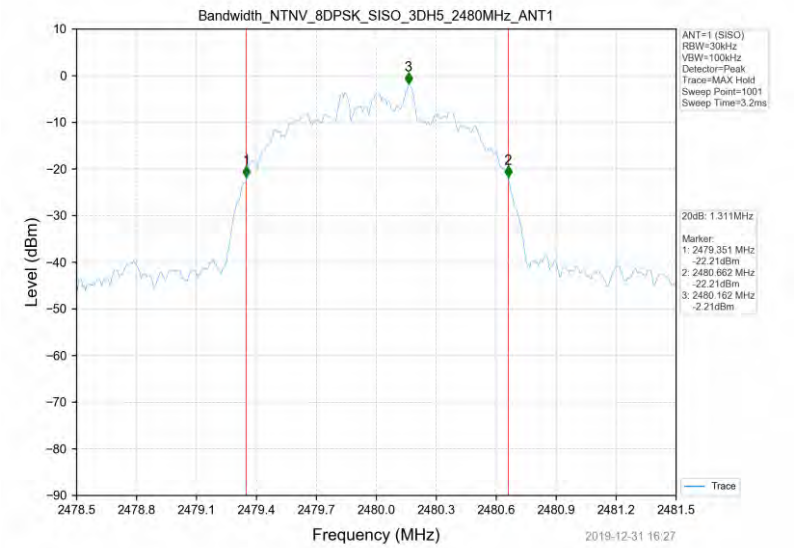
8DPSK_2480MHz_3DH5_SISO_ANT1


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2. Maximum Conducted Output Power

2.1 Test Result

Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
GFSK	2402	SISO	1.34	30	PASS
	2441	SISO	1.14	30	PASS
	2480	SISO	1.31	30	PASS
Pi/4DQPSK	2402	SISO	1.71	20.97	PASS
	2441	SISO	1.35	20.97	PASS
	2480	SISO	0.94	20.97	PASS
8DPSK	2402	SISO	1.69	20.97	PASS
	2441	SISO	1.66	20.97	PASS
	2480	SISO	1.71	20.97	PASS

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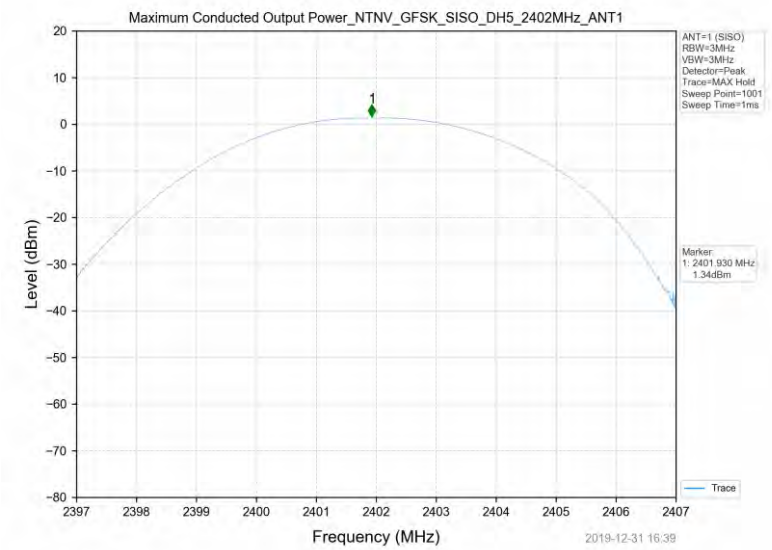
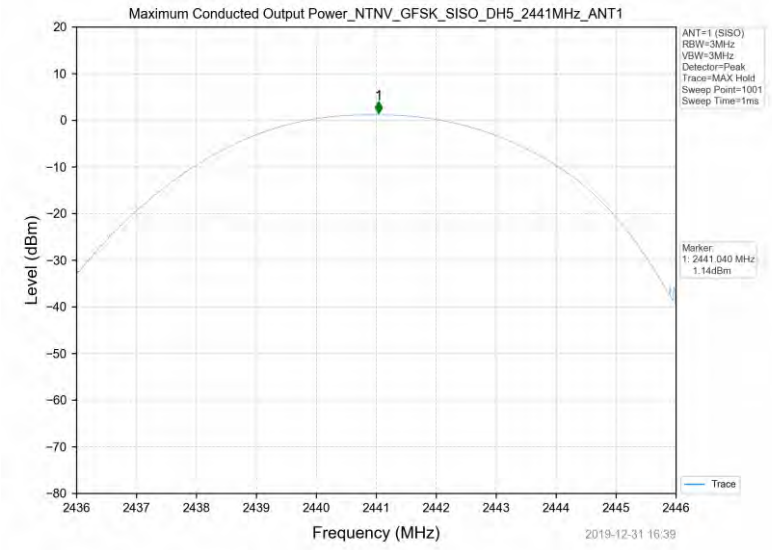
2.2 Test Graph

GFSK_2402MHz_DH5_SISO_ANT1



GFSK_2441MHz_DH5_SISO_ANT1



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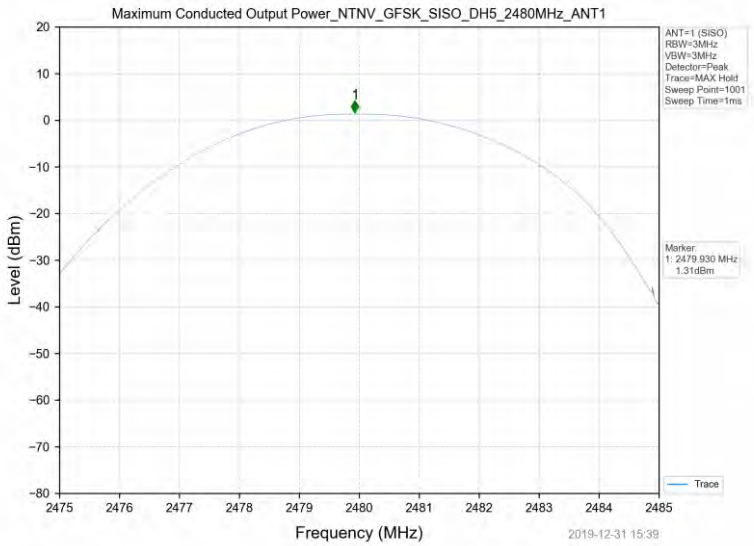
GFSK_2480MHz_DH5_SISO_ANT1


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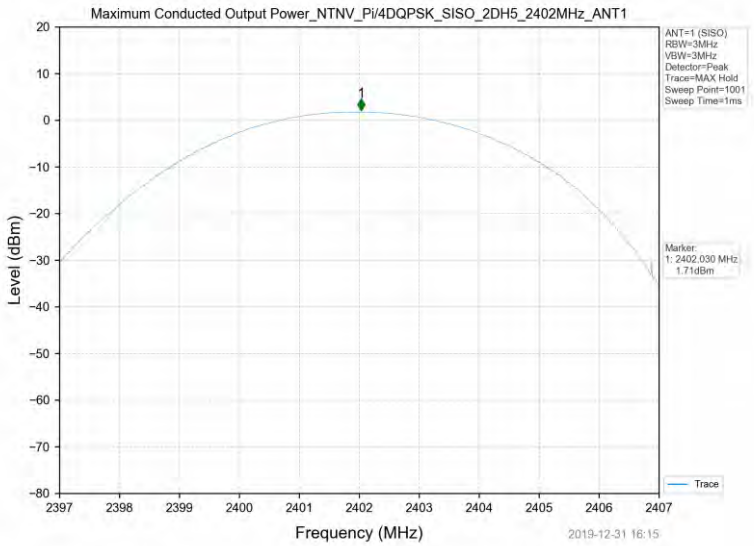

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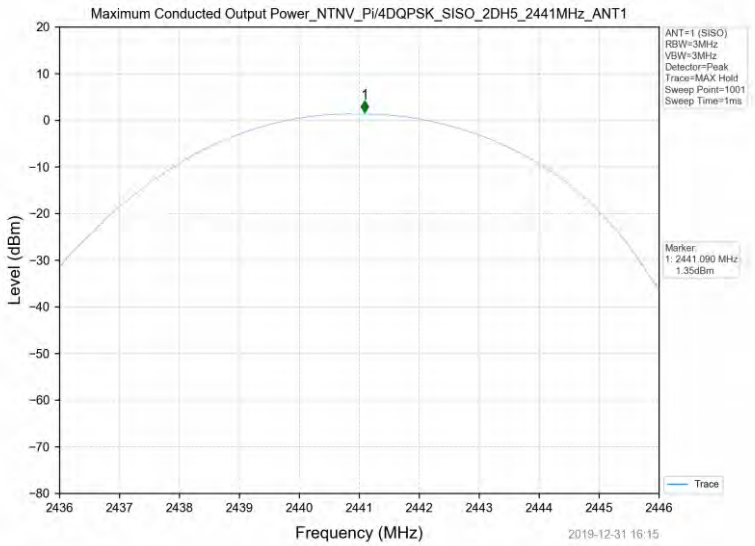
Pi/4DQPSK_2441MHz_2DH5_SISO_ANT1


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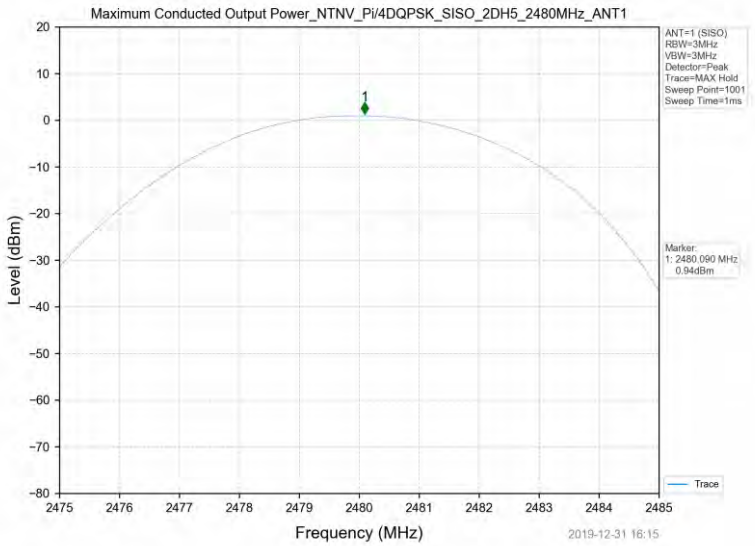

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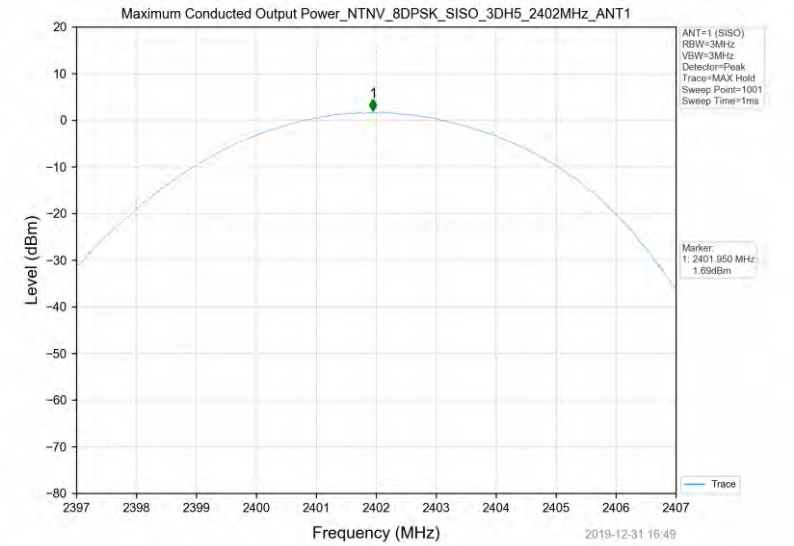

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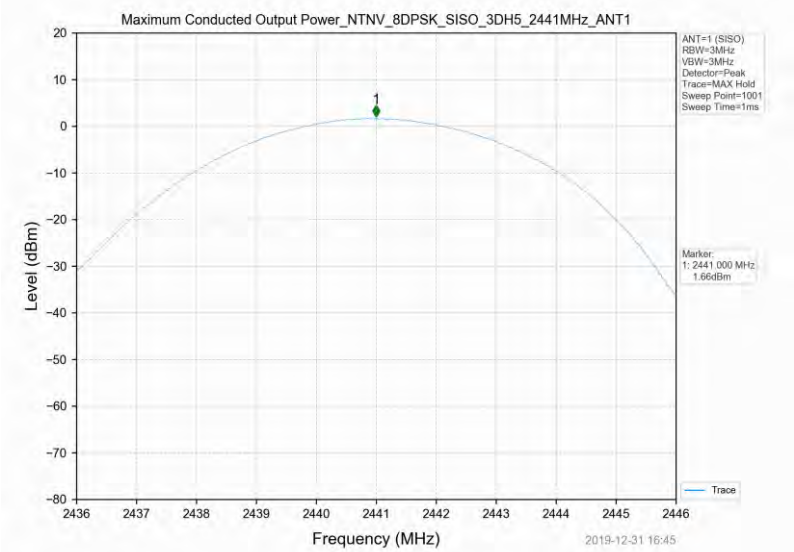

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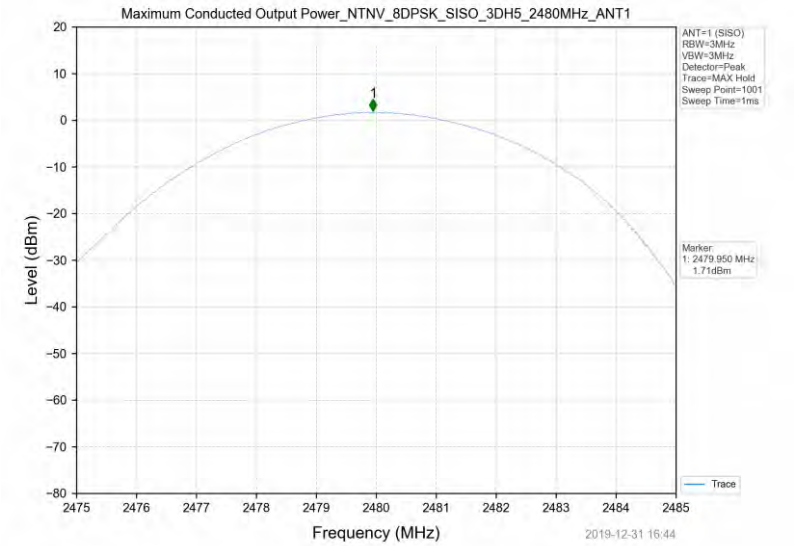
8DPSK_2480MHz_3DH5_SISO_ANT1


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3. Carrier frequency separation

3.1 Test Result

Test Mode	TX Type	ANT No.	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limits (MHz)	Verdict
GFSK	SISO	1	0.999	0.961	≥0.961	PASS
Pi/4DQPSK	SISO	1	0.999	1.351	≥0.901	PASS
8DPSK	SISO	1	0.999	1.314	≥0.876	PASS

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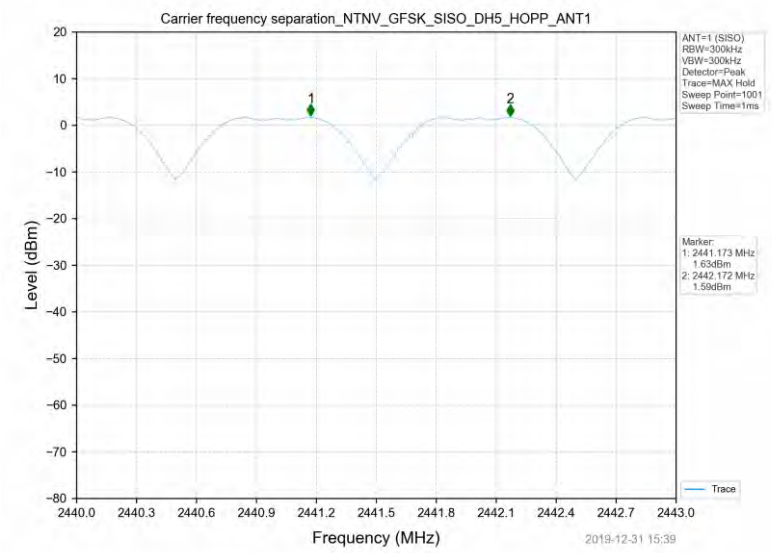
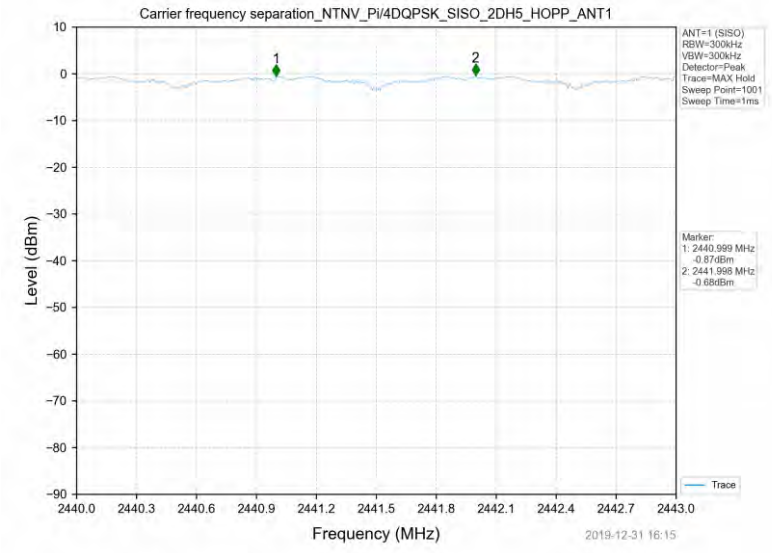
3.2 Test Graph

GFSK_Hopping_DH5_SISO_ANT1



Pi/4DQPSK_Hopping_2DH5_SISO_ANT1



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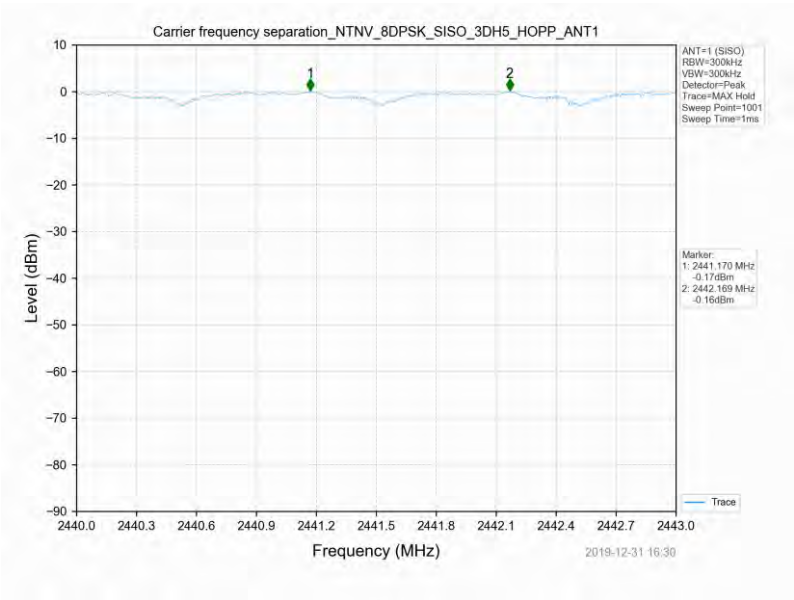

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Member of the SGS Group (SGS SA)

4. Number of hopping frequencies

4.1 Test Result

Test Mode	TX Type	ANT No.	Num of Hopping Frequencies	Limits	Verdict
GFSK	SISO	1	79	≥15	PASS
Pi/4DQPSK	SISO	1	79	≥15	PASS
8DPSK	SISO	1	79	≥15	PASS

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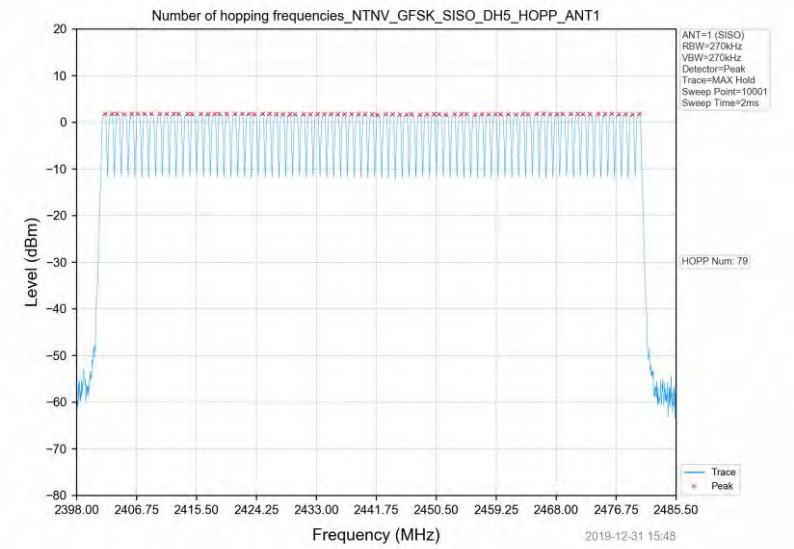
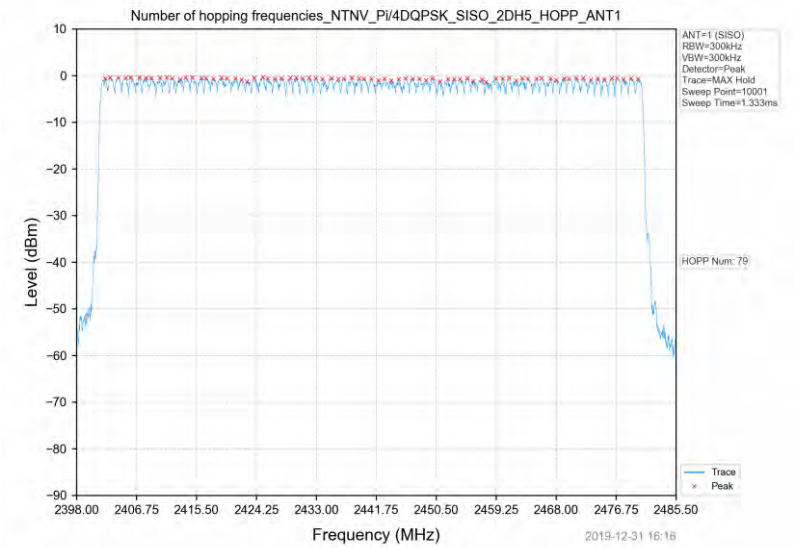
4.2 Test Graph

GFSK_Hopping_DH5_SISO_ANT1

Pi/4DQPSK_Hopping_2DH5_SISO_ANT1


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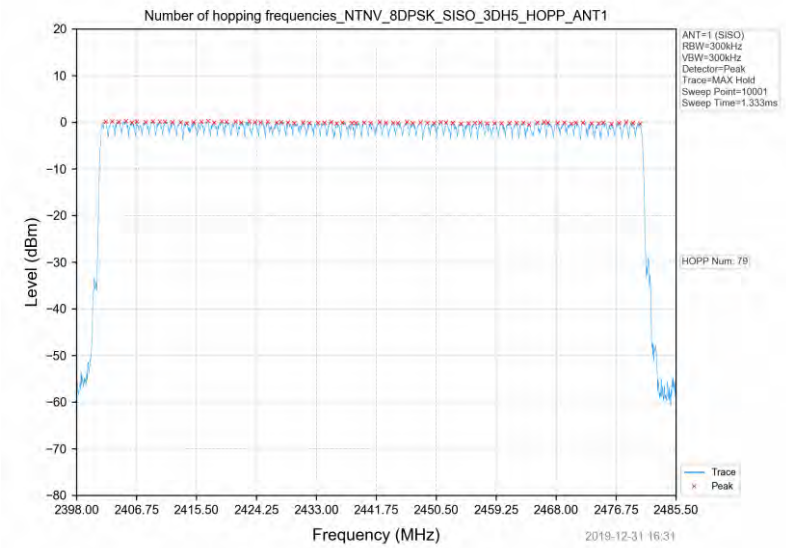
8DPSK_Hopping_3DH5_SISO_ANT1


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5. Time of occupancy (dwell time)

5.1 Test Result

Test Mode	Packet Type	TX Type	ANT No.	Duration of Single Pulse (ms)	Obeservation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limits (ms)	Verdict
GFSK	DH1	SISO	1	0.388	31.6	320	124.160	≤400	PASS
	DH3	SISO	1	1.644	31.6	160	263.040	≤400	PASS
	DH5	SISO	1	2.892	31.6	107	309.444	≤400	PASS
Pi/4DQPSK	2DH1	SISO	1	0.398	31.6	320	127.360	≤400	PASS
	2DH3	SISO	1	1.650	31.6	160	264.000	≤400	PASS
	2DH5	SISO	1	2.899	31.6	107	310.193	≤400	PASS
8DPSK	3DH1	SISO	1	0.226	31.6	321	72.546	≤400	PASS
	3DH3	SISO	1	1.649	31.6	160	263.840	≤400	PASS
	3DH5	SISO	1	2.899	31.6	107	310.193	≤400	PASS

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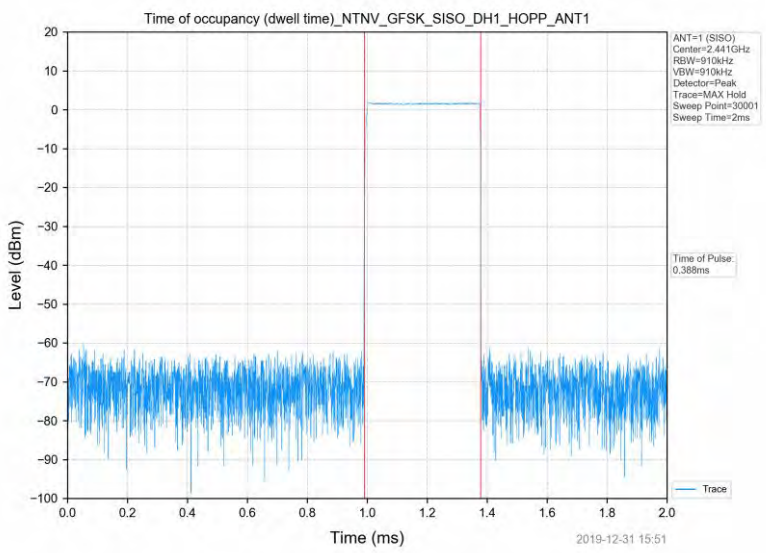
5.2 Test Graph

GFSK_Hopping_DH1_SISO_ANT1



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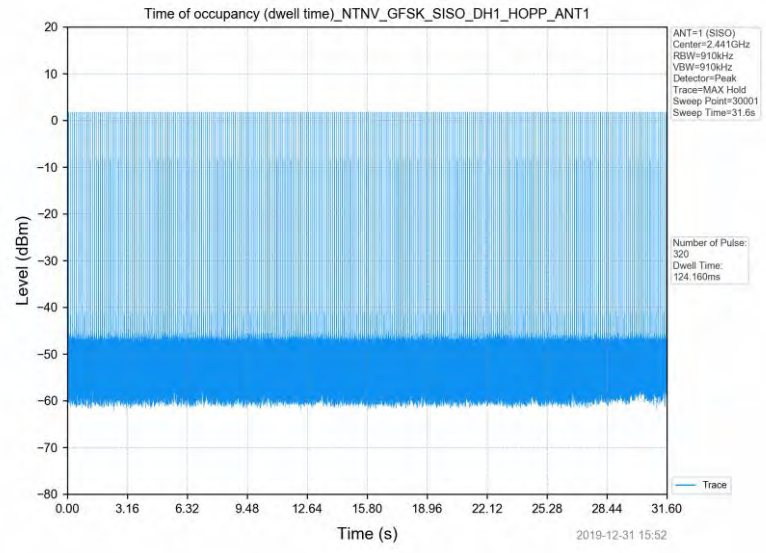

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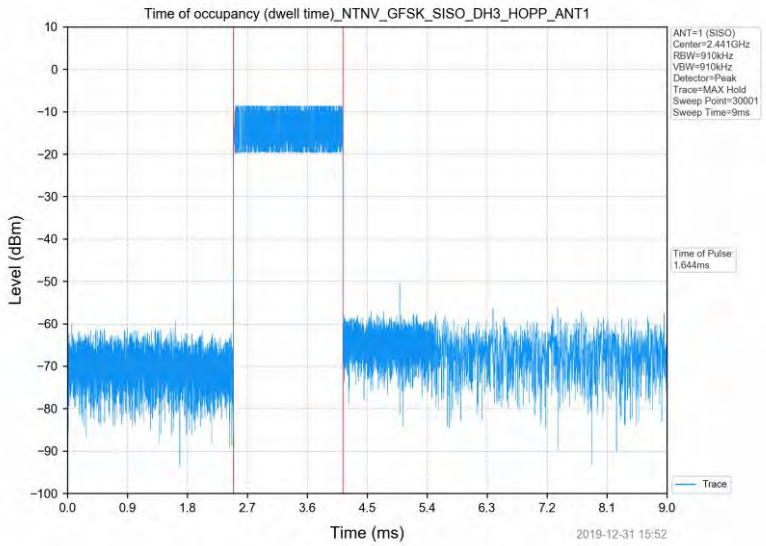

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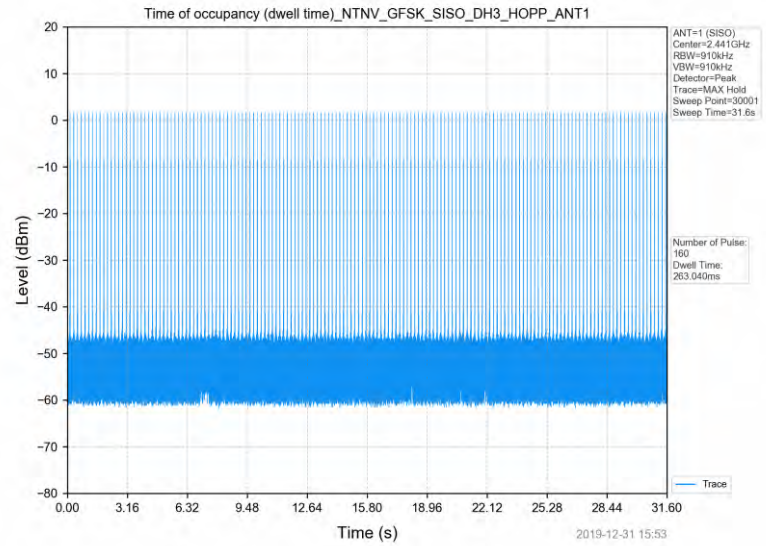

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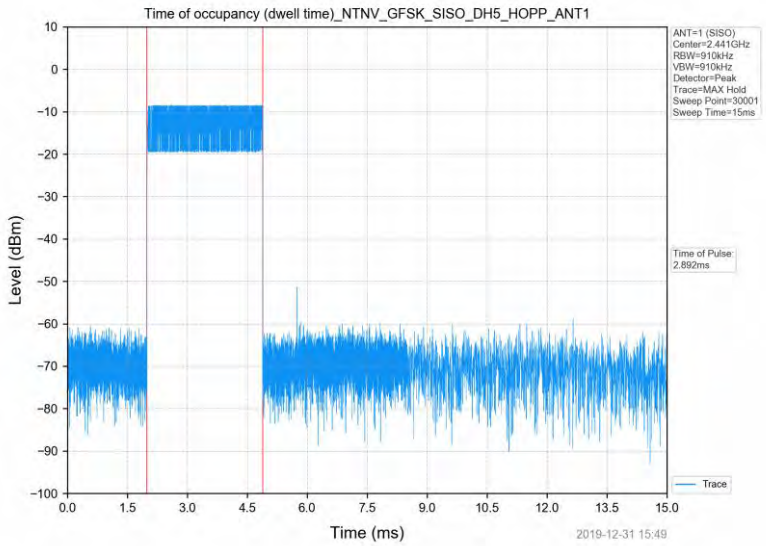
GFSK_Hopping_DH5_SISO_ANT1


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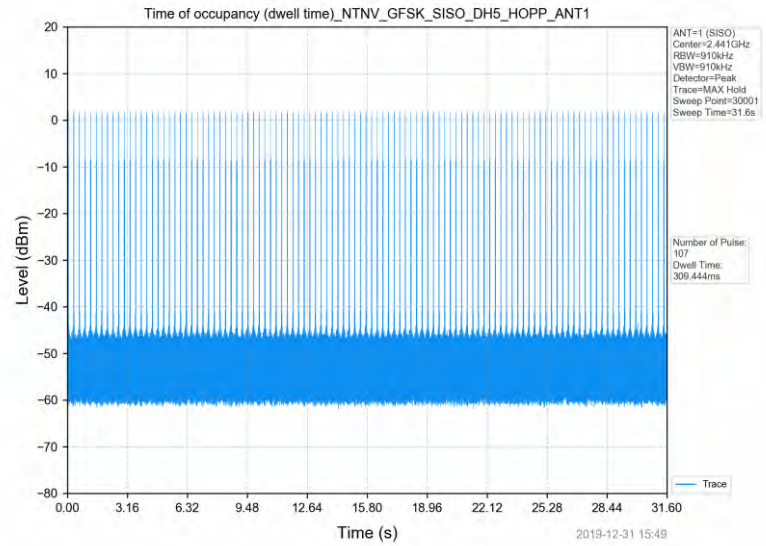

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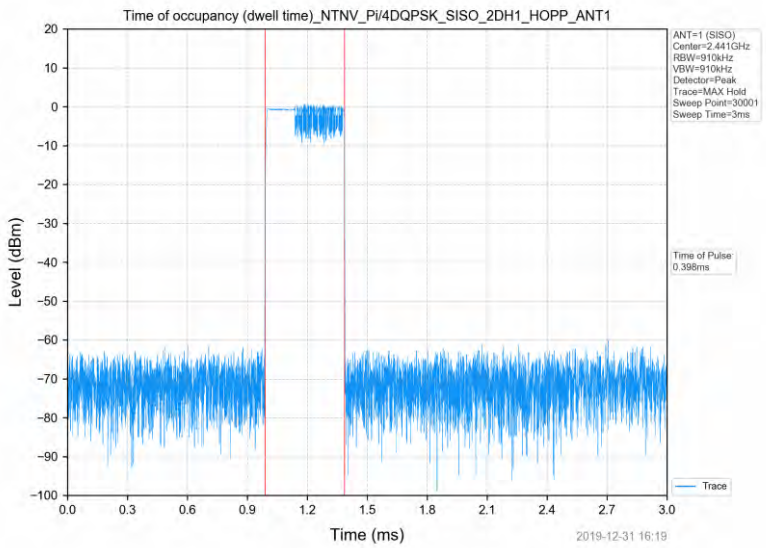

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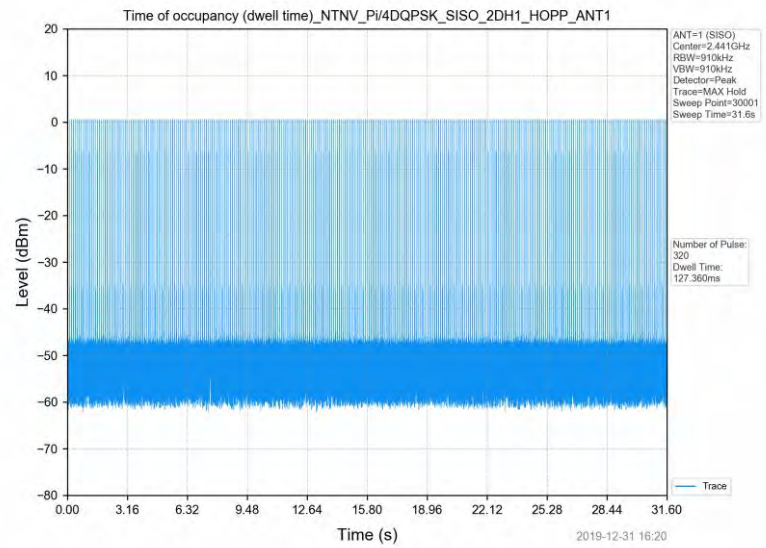

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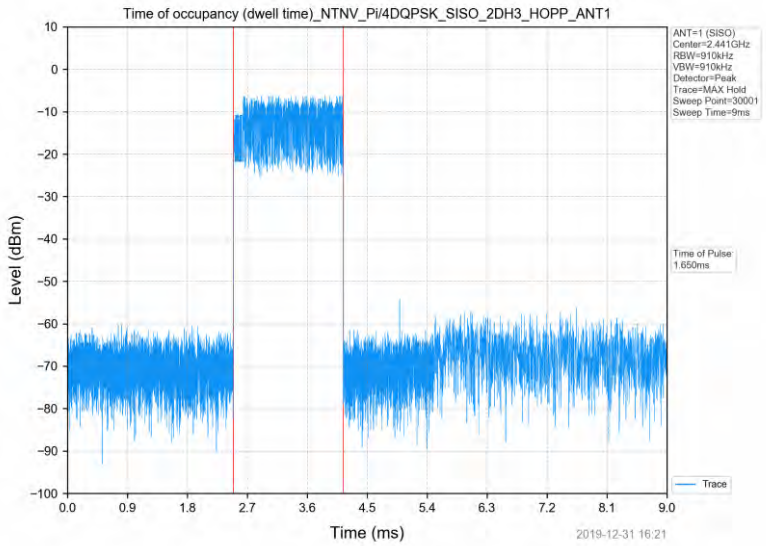

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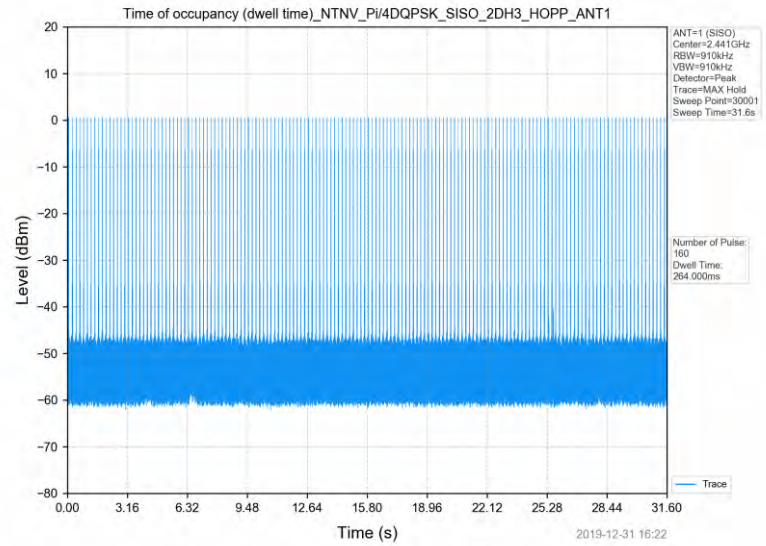

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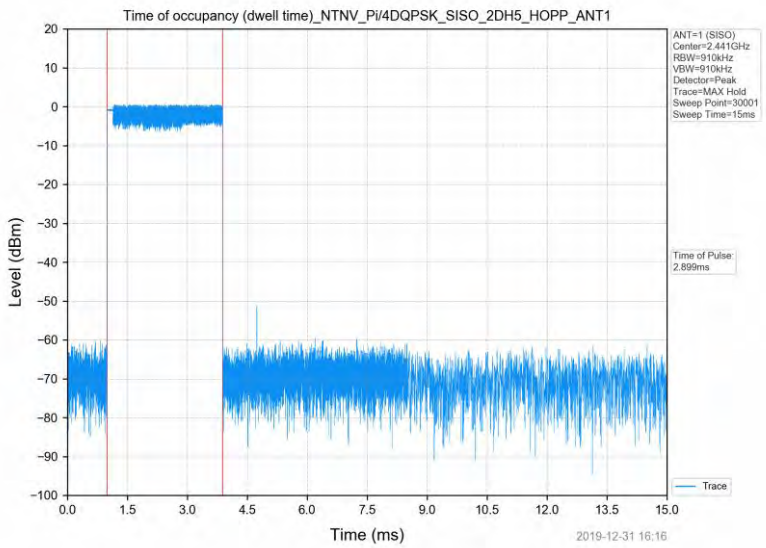

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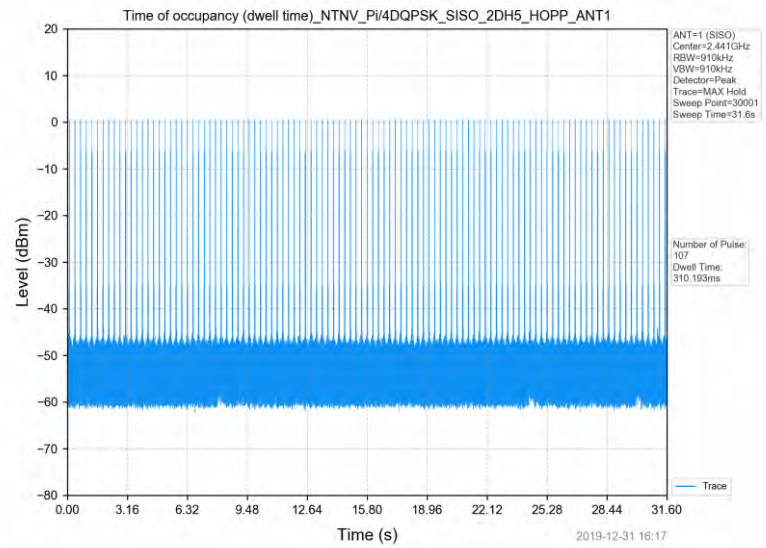

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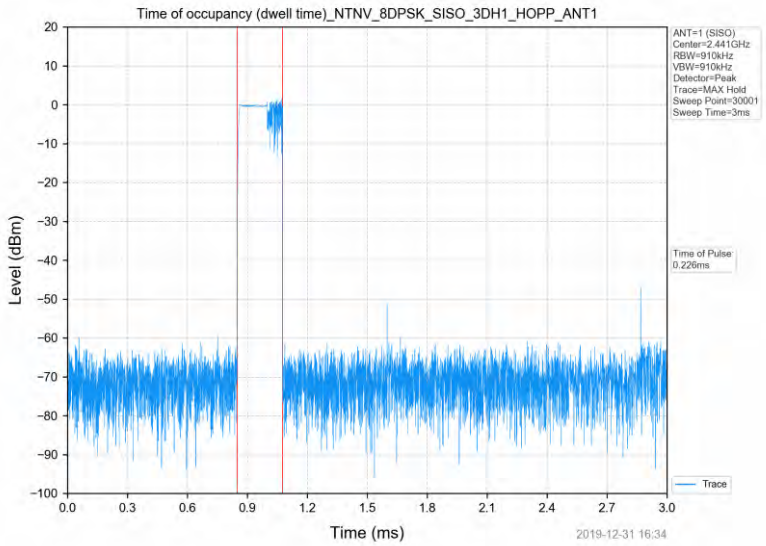

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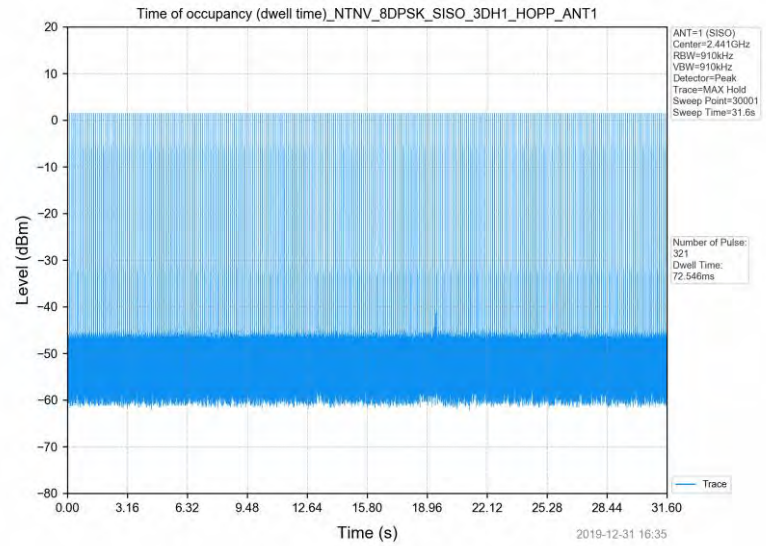

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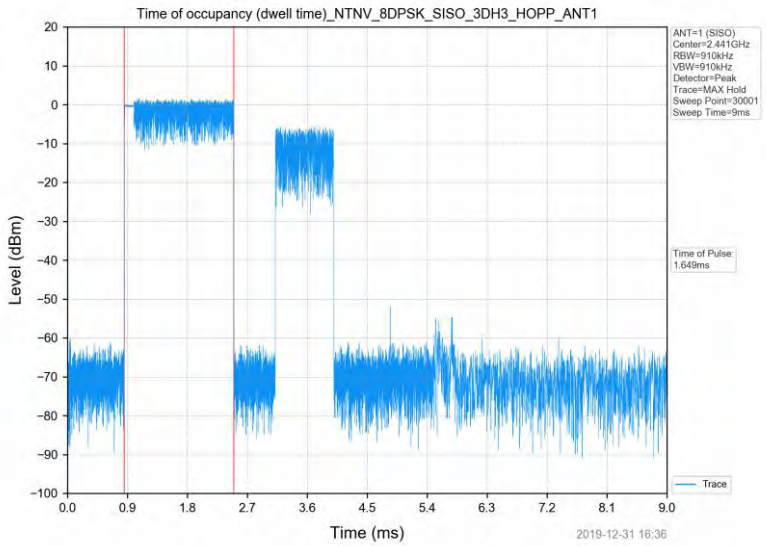

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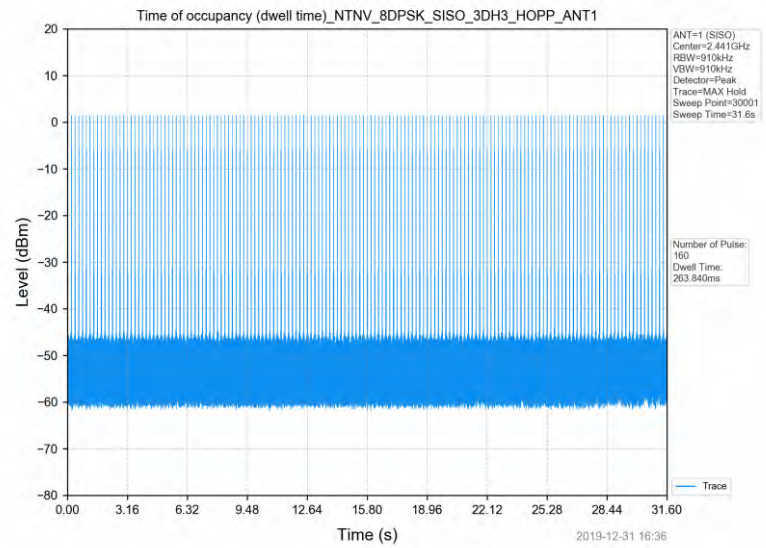

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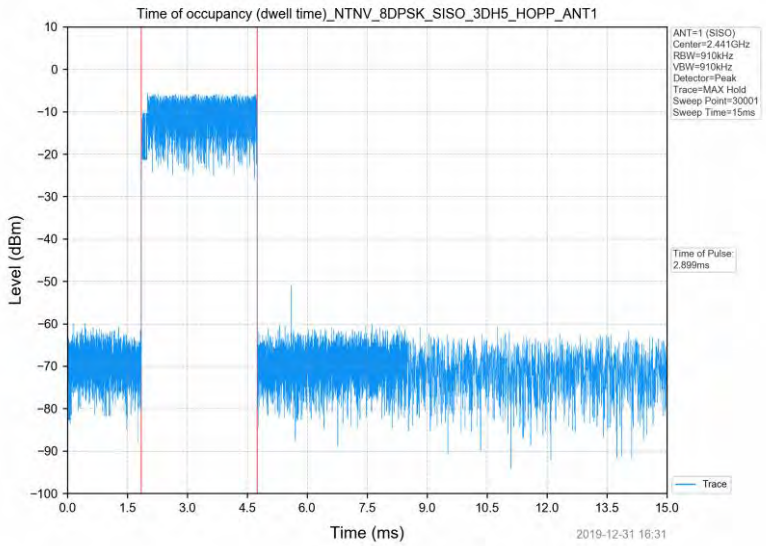
8DPSK_Hopping_3DH5_SISO_ANT1


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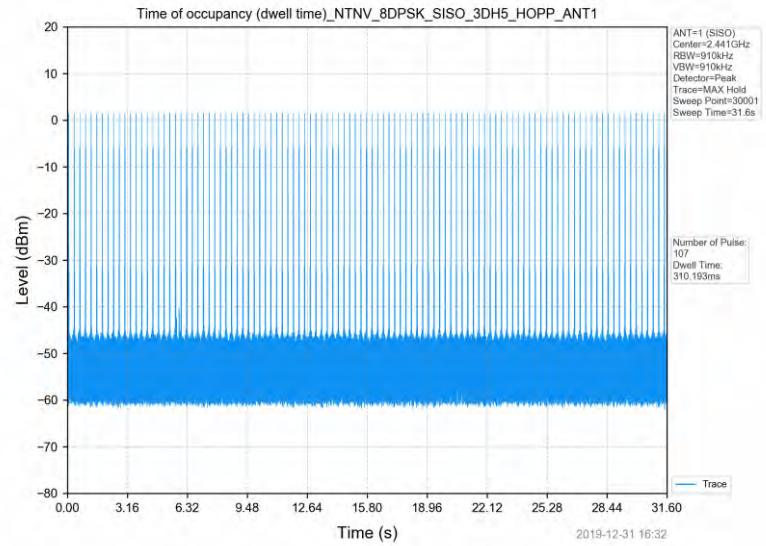

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6. Unwanted Emissions in Non-restricted Frequency Bands

6.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
GFSK	2402	SISO	1	Refer to test graph	-18.33	PASS
	2441	SISO	1	Refer to test graph	-18.33	PASS
	2480	SISO	1	Refer to test graph	-18.33	PASS
	Hopping	SISO	1	Refer to test graph	-18.33	PASS
Pi/4DQPSK	2402	SISO	1	Refer to test graph	-20.82	PASS
	2441	SISO	1	Refer to test graph	-20.82	PASS
	2480	SISO	1	Refer to test graph	-20.82	PASS
	Hopping	SISO	1	Refer to test graph	-20.82	PASS
8DPSK	2402	SISO	1	Refer to test graph	-20.08	PASS
	2441	SISO	1	Refer to test graph	-20.08	PASS
	2480	SISO	1	Refer to test graph	-20.08	PASS
	Hopping	SISO	1	Refer to test graph	-20.08	PASS

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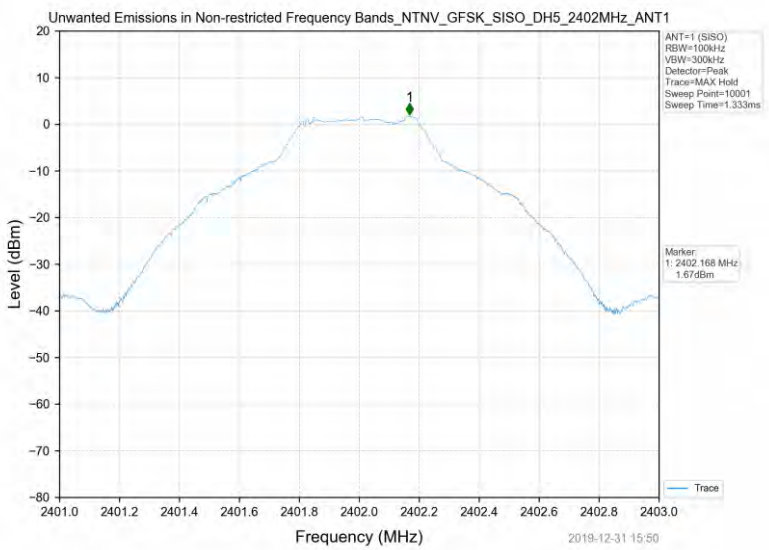
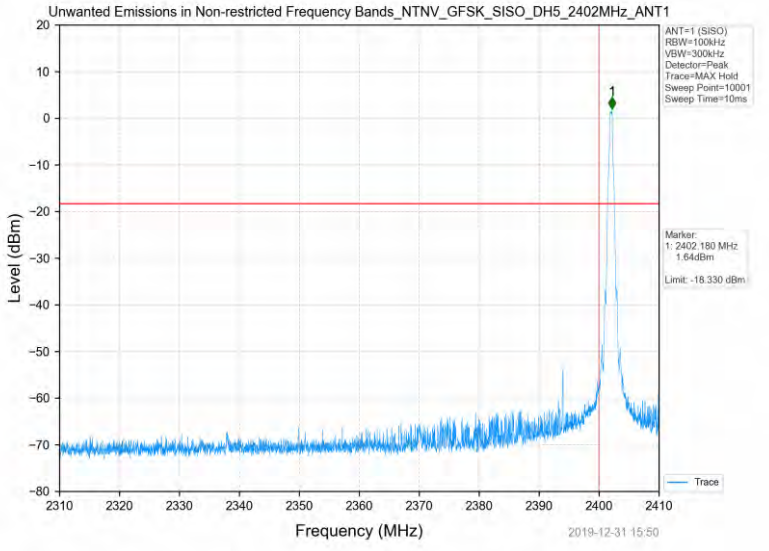
6.2 Test Graph

GFSK_DH5_SISO_ANT1_REF



GFSK_2402MHz_DH5_SISO_ANT1



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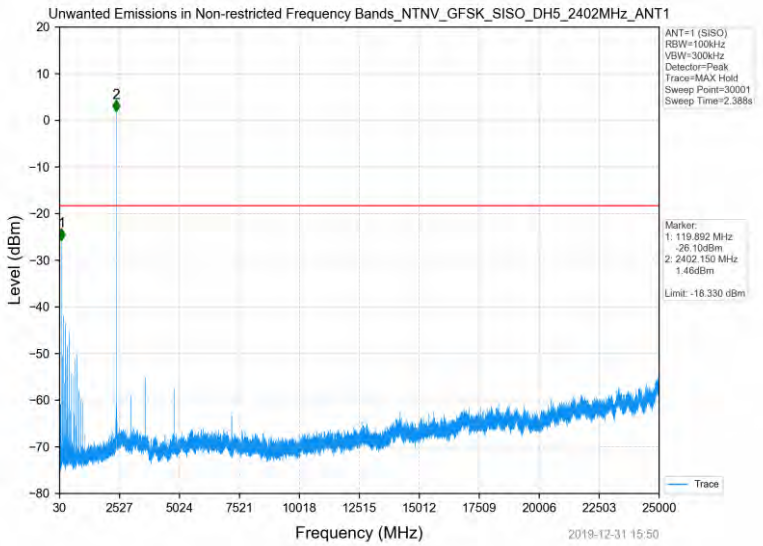

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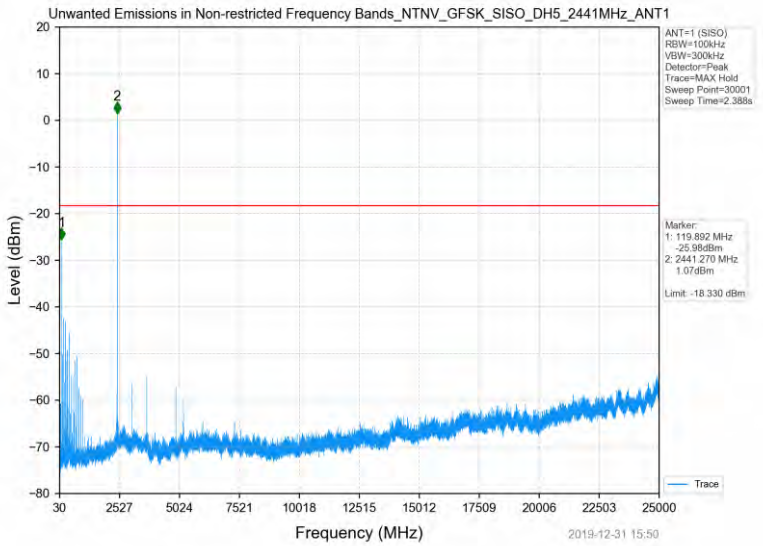

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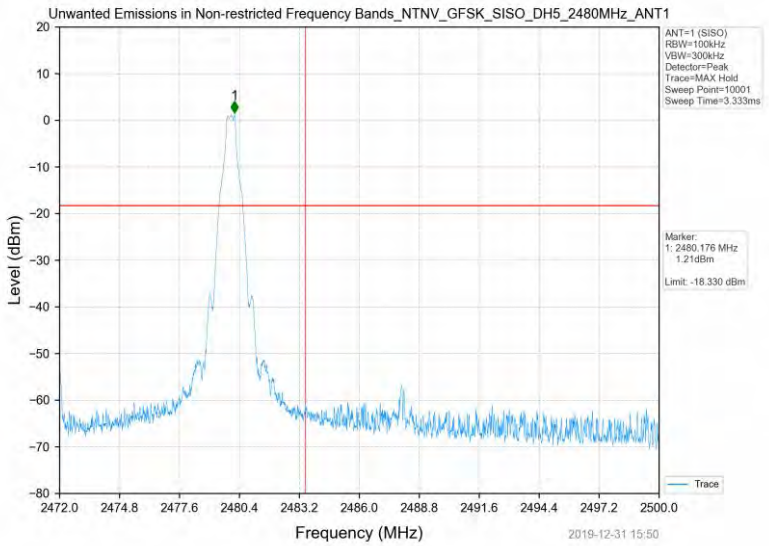
GFSK_2480MHz_DH5_SISO_ANT1


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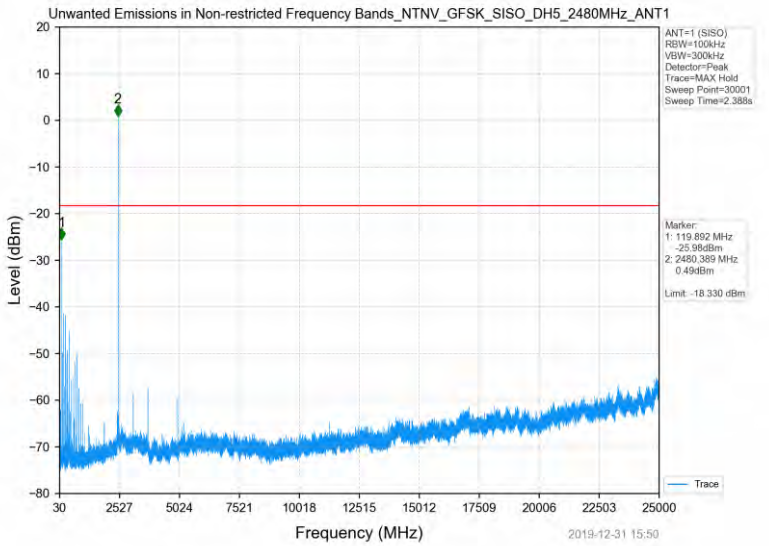

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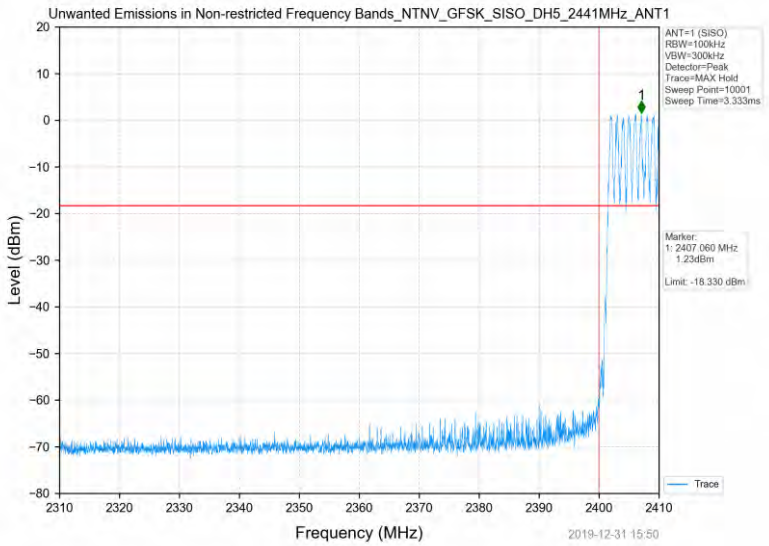

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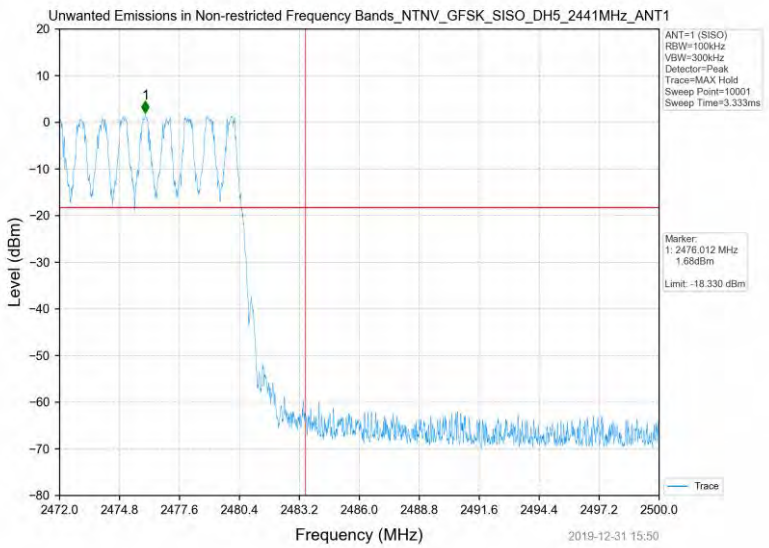

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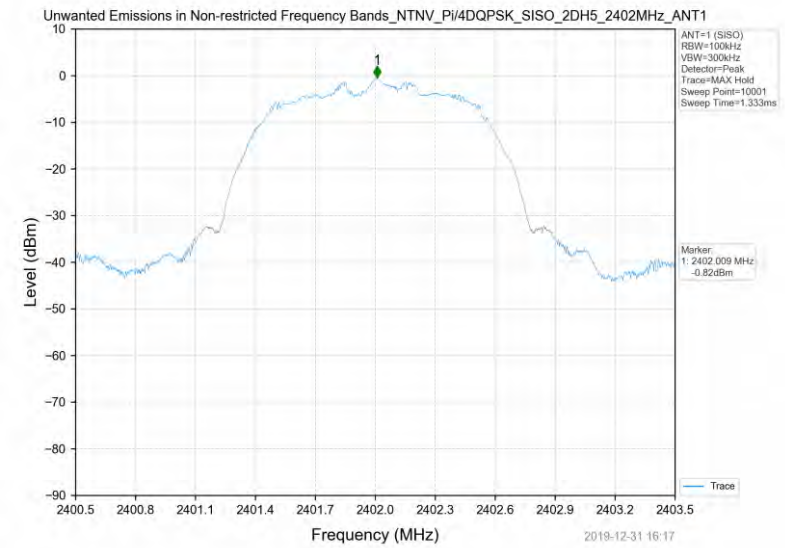

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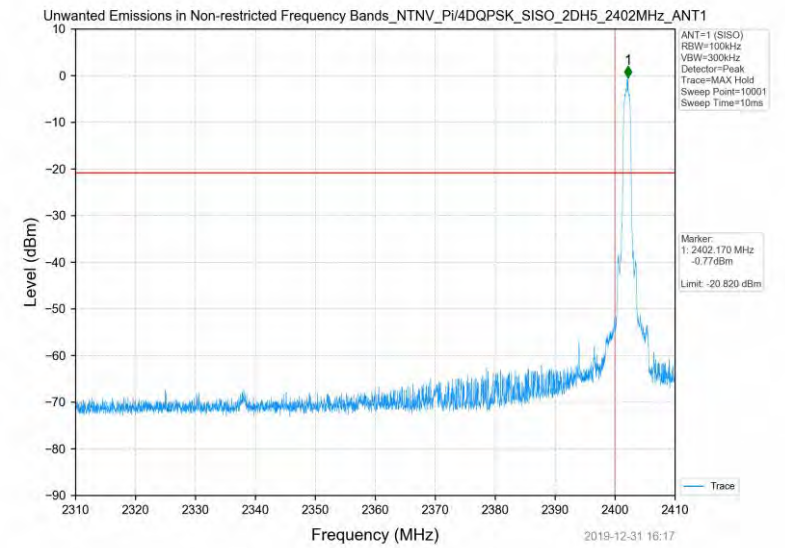

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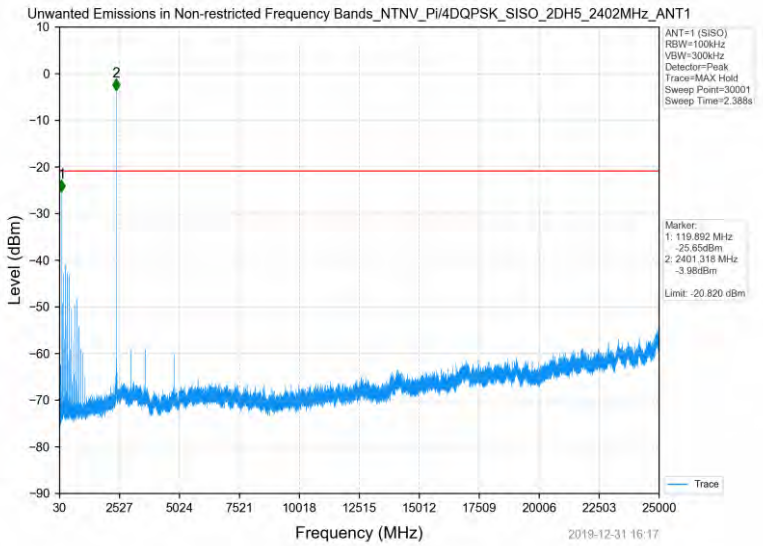

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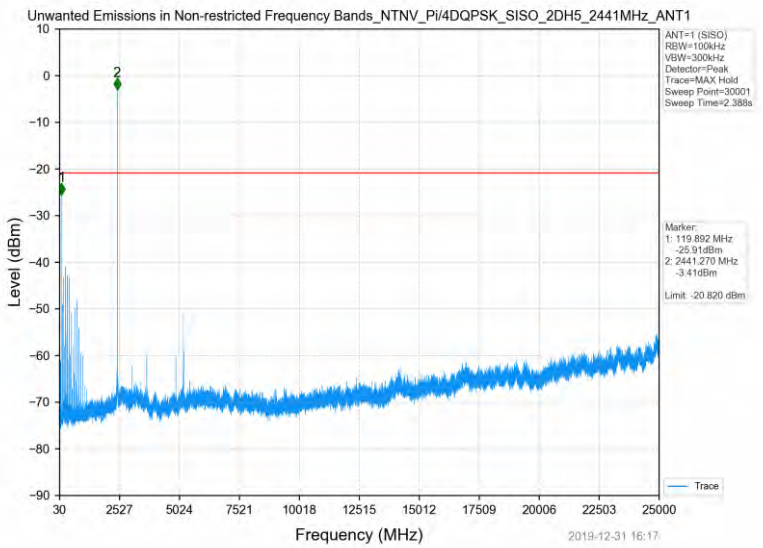

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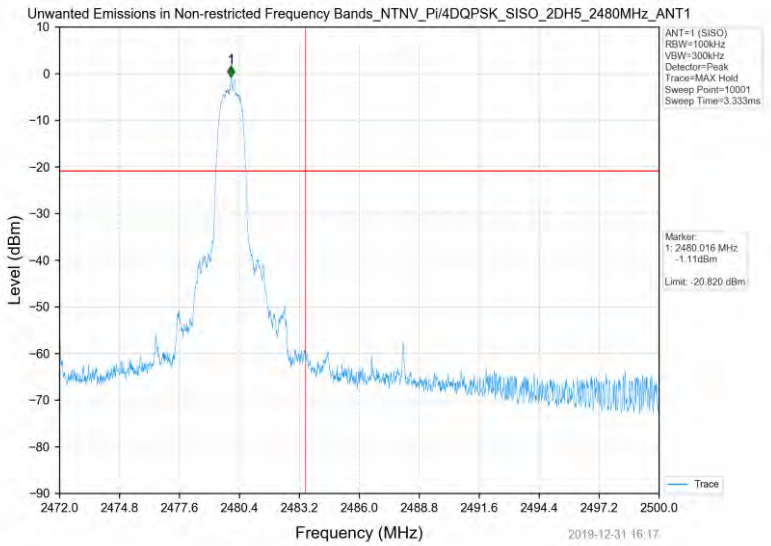

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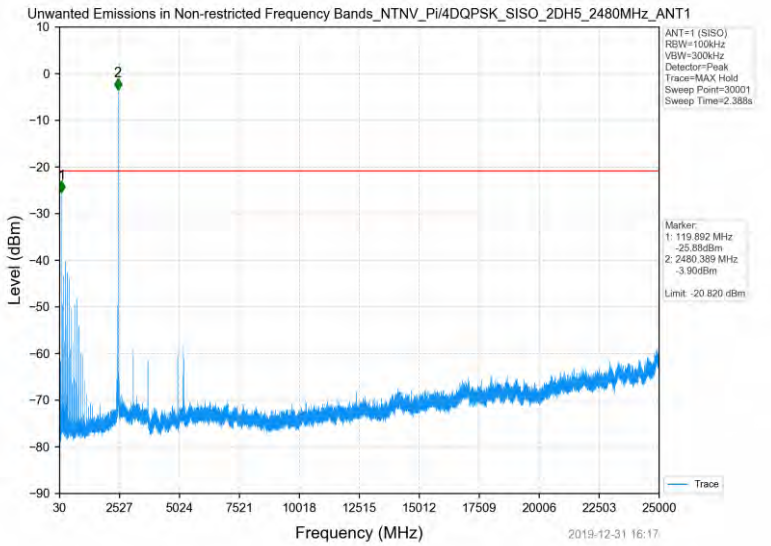

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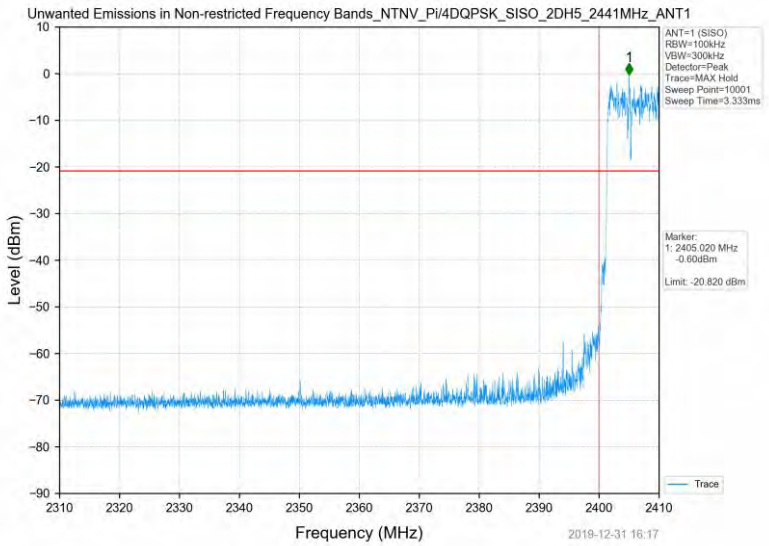

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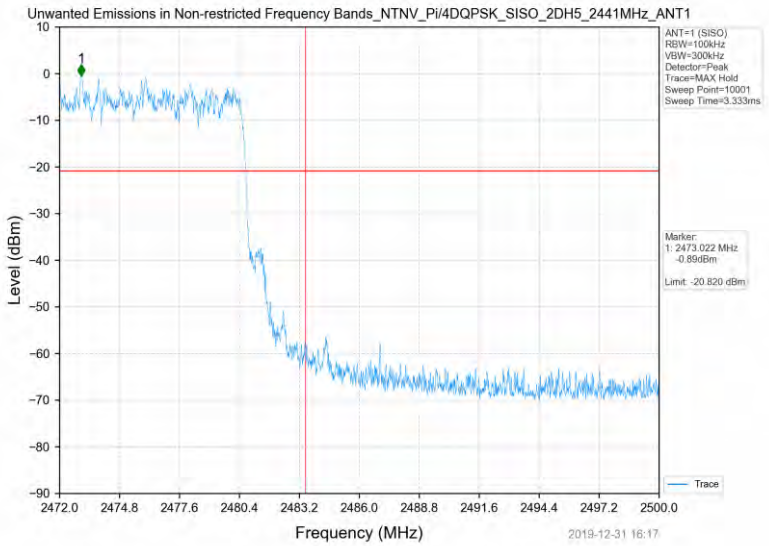

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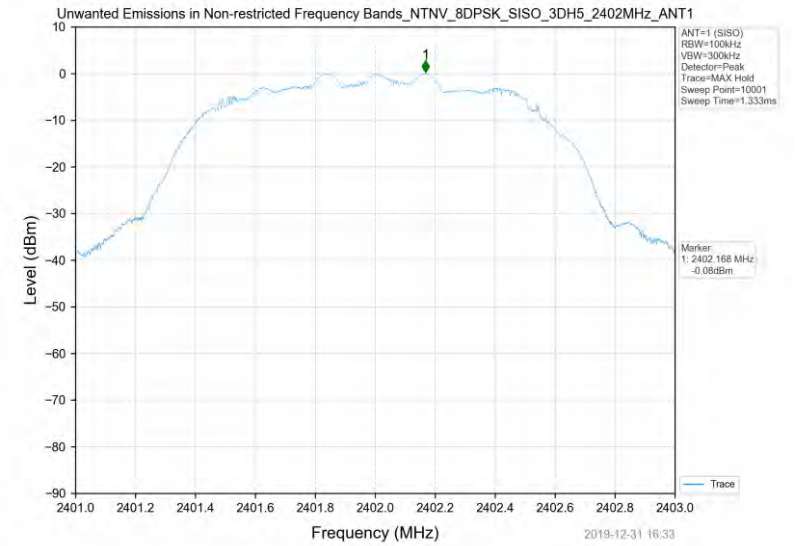

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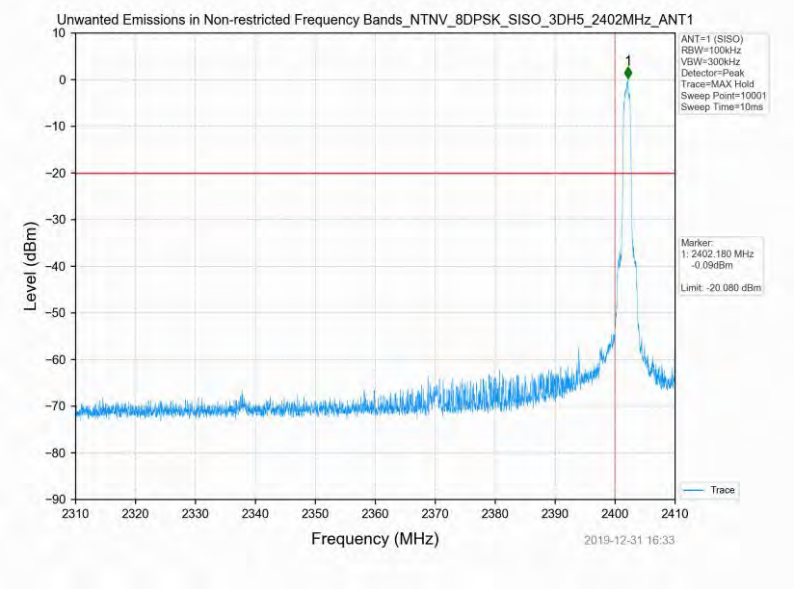

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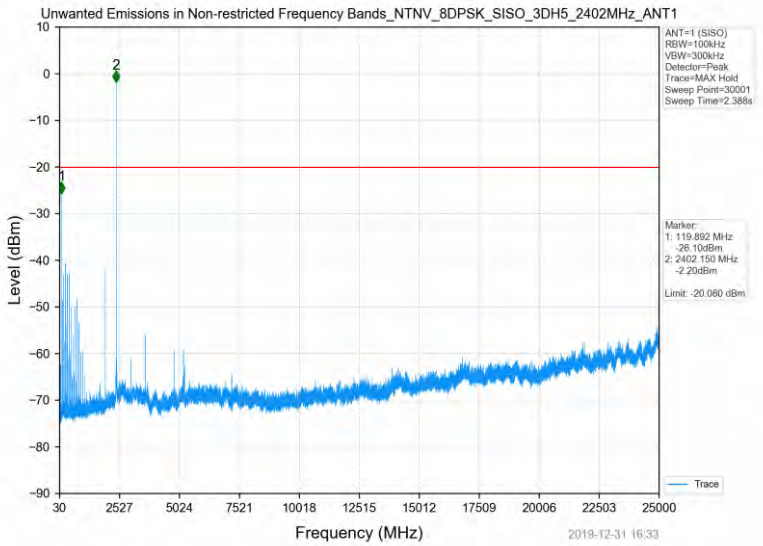

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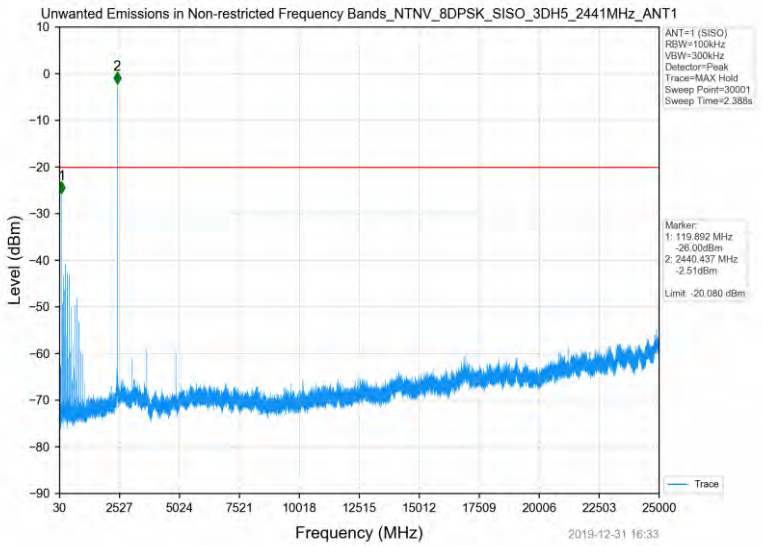

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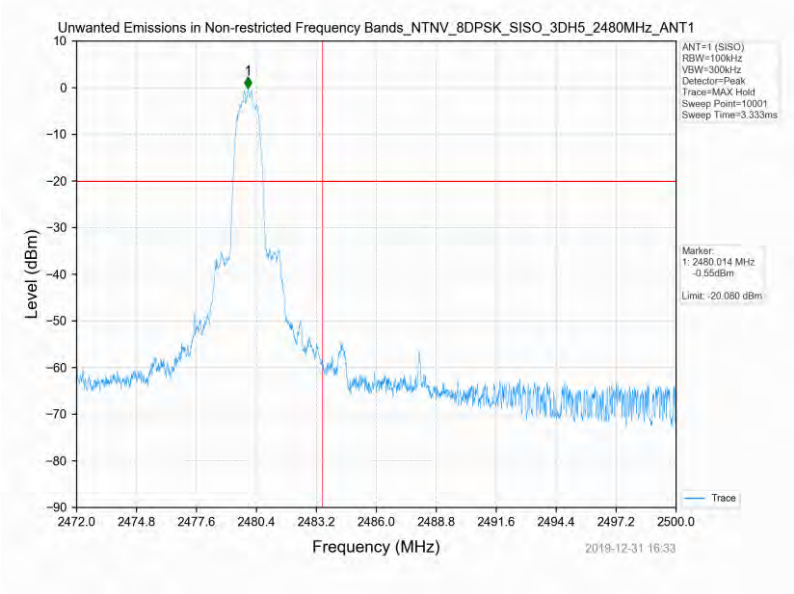

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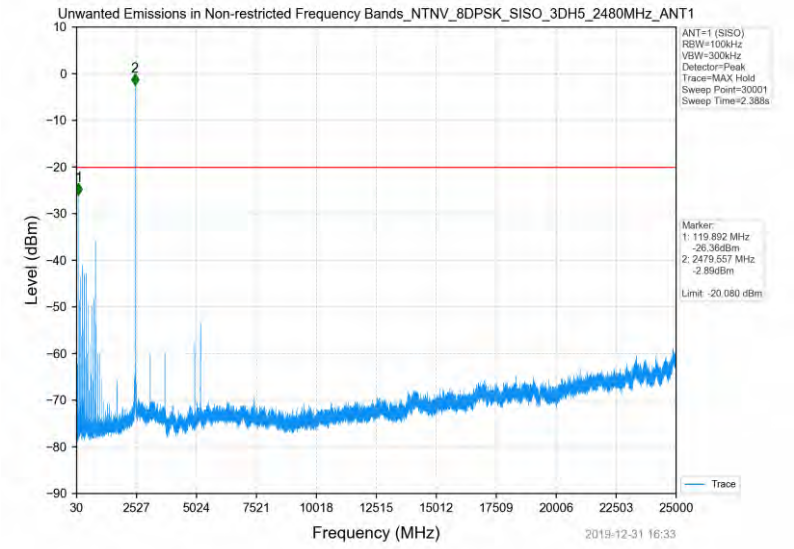

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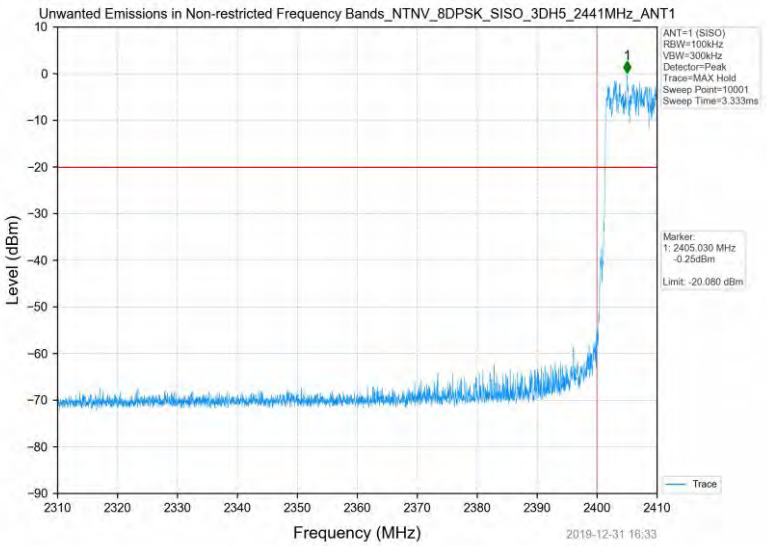

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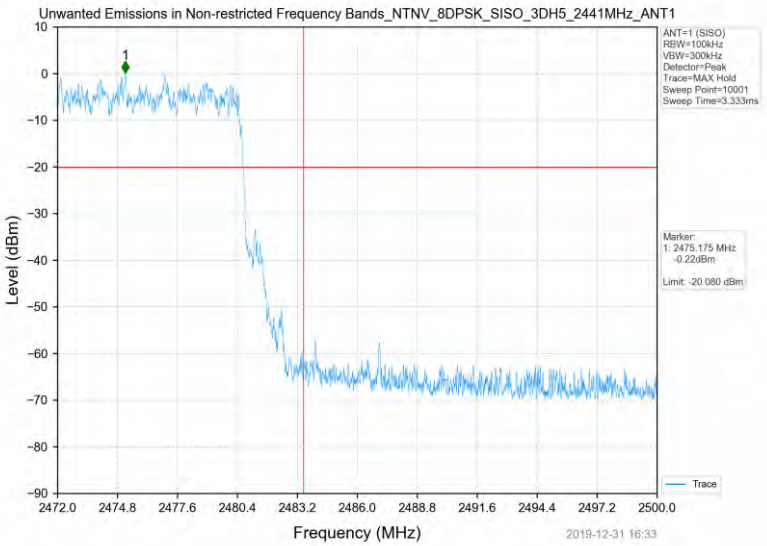

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9.2 Appendix 15.247-Right earbuds:

1. Bandwidth

1.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	20dB Bandwidth Test Result (MHz)	Verdict
GFSK	2402	SISO	1	0.962	PASS
	2441	SISO	1	0.963	PASS
	2480	SISO	1	0.962	PASS
Pi/4DQPSK	2402	SISO	1	0.695	PASS
	2441	SISO	1	1.333	PASS
	2480	SISO	1	1.350	PASS
8DPSK	2402	SISO	1	1.319	PASS
	2441	SISO	1	1.331	PASS
	2480	SISO	1	1.315	PASS

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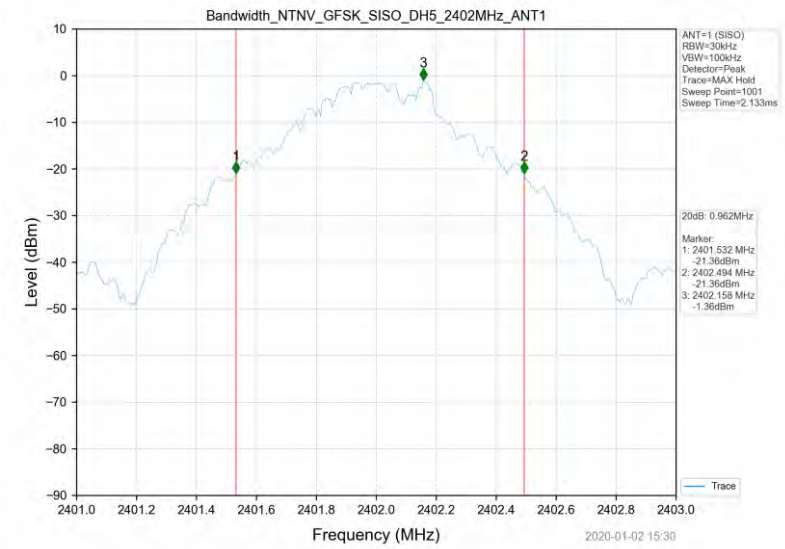
1.2 Test Graph - 20dB Bandwidth

GFSK_2402MHz_DH5_SISO_ANT1



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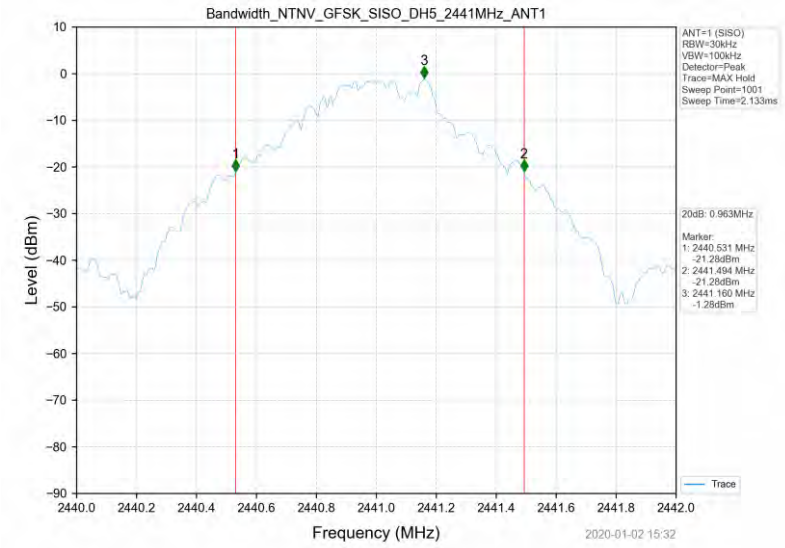

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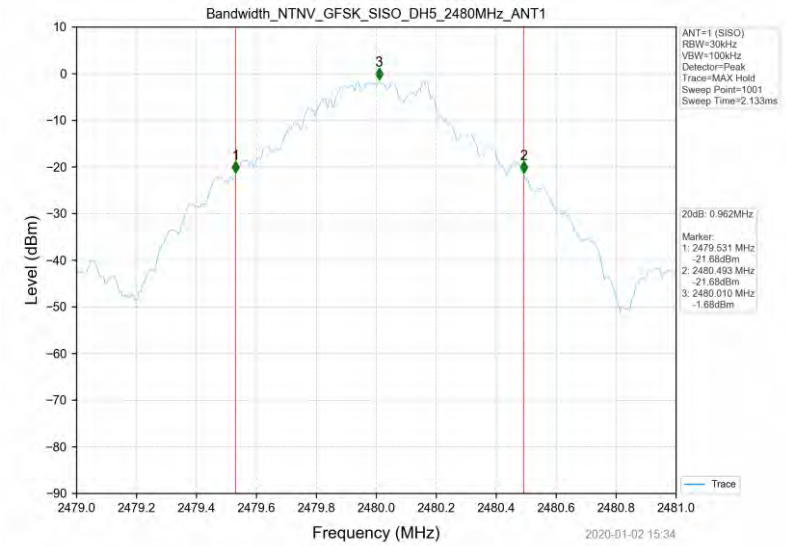
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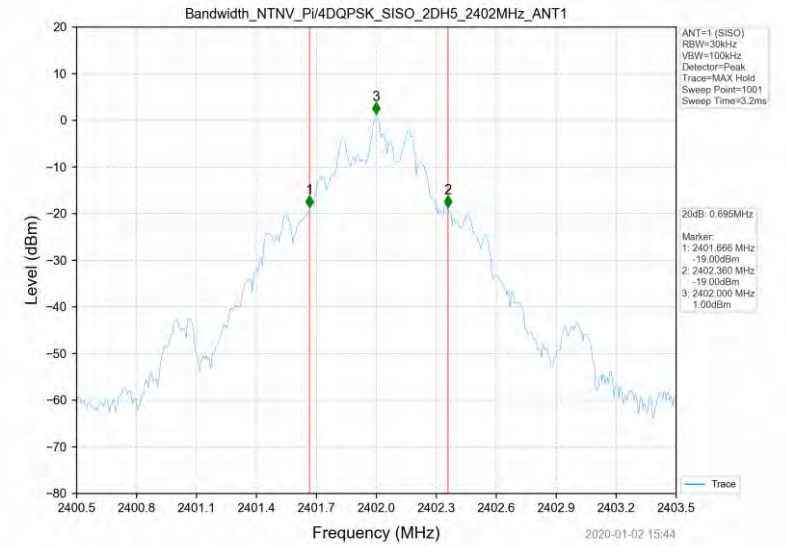

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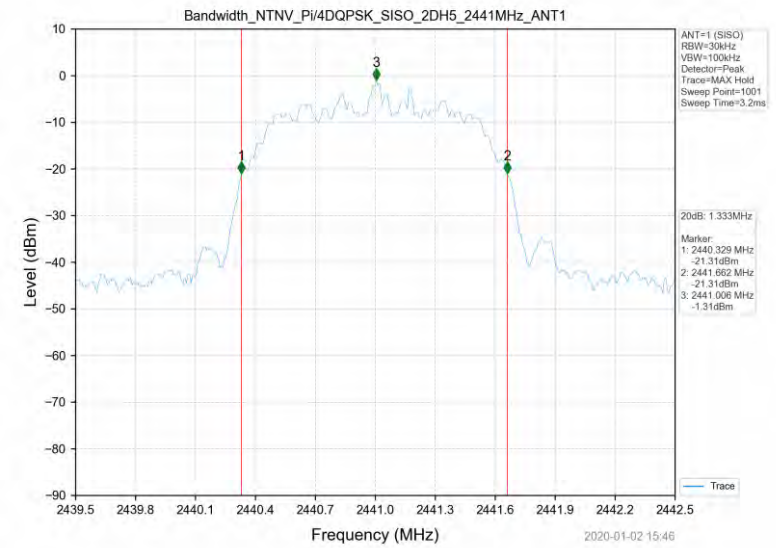

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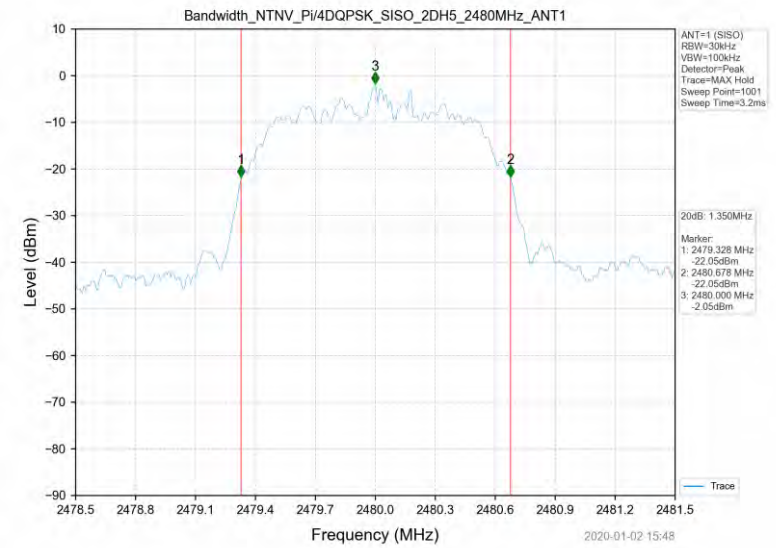

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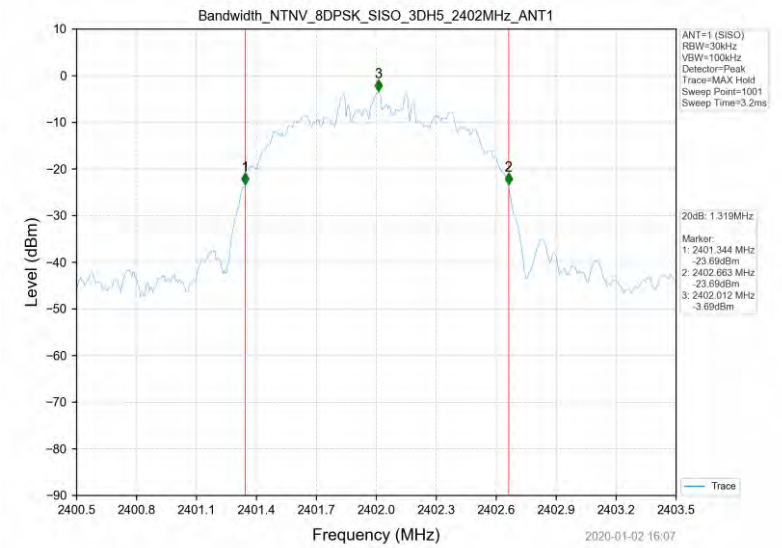

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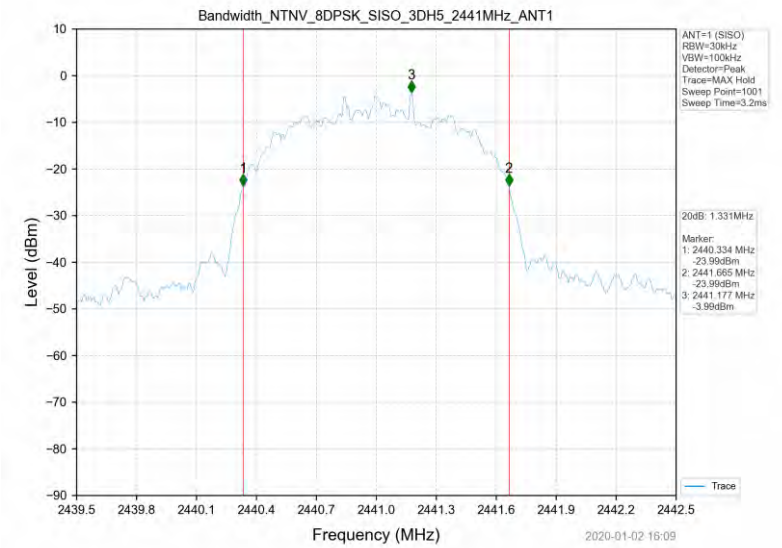

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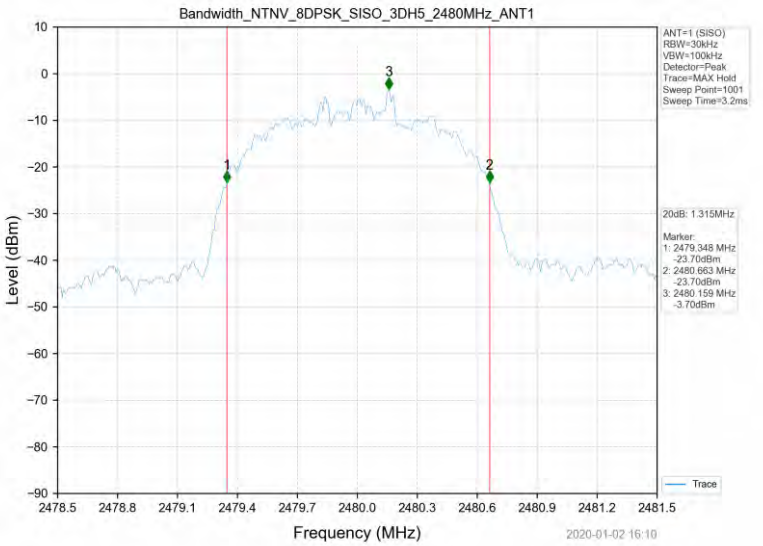
8DPSK_2480MHz_3DH5_SISO_ANT1


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2. Maximum Conducted Output Power

2.1 Test Result

Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
GFSK	2402	SISO	1.12	30	PASS
	2441	SISO	1.15	30	PASS
	2480	SISO	0.78	30	PASS
Pi/4DQPSK	2402	SISO	1.22	20.97	PASS
	2441	SISO	0.08	20.97	PASS
	2480	SISO	0.73	20.97	PASS
8DPSK	2402	SISO	0.71	20.97	PASS
	2441	SISO	1.48	20.97	PASS
	2480	SISO	0.35	20.97	PASS

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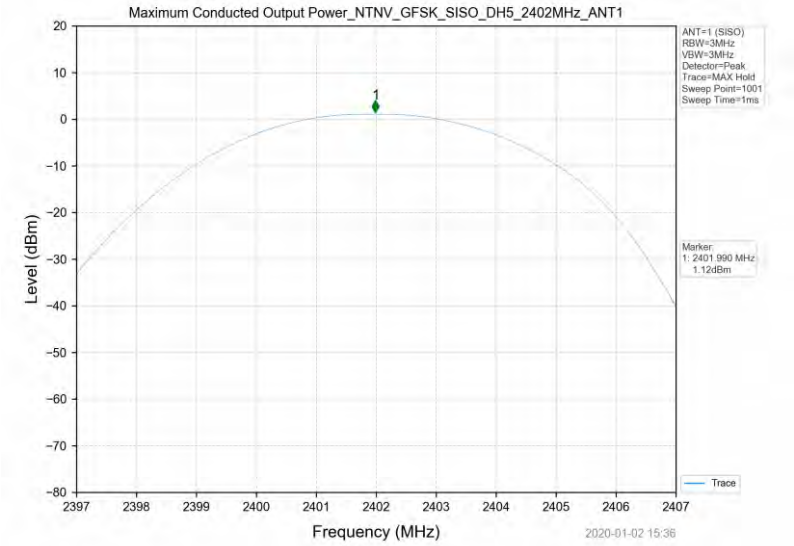
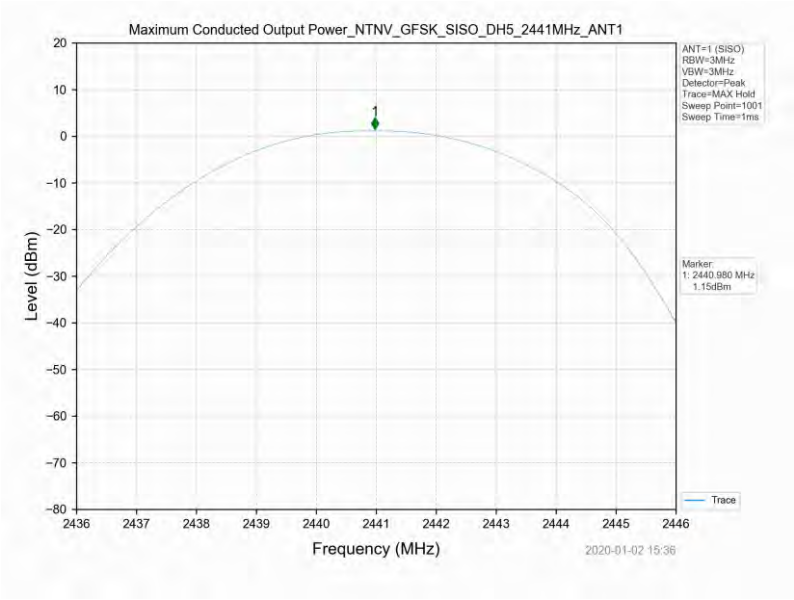
2.2 Test Graph

GFSK_2402MHz_DH5_SISO_ANT1



GFSK_2441MHz_DH5_SISO_ANT1



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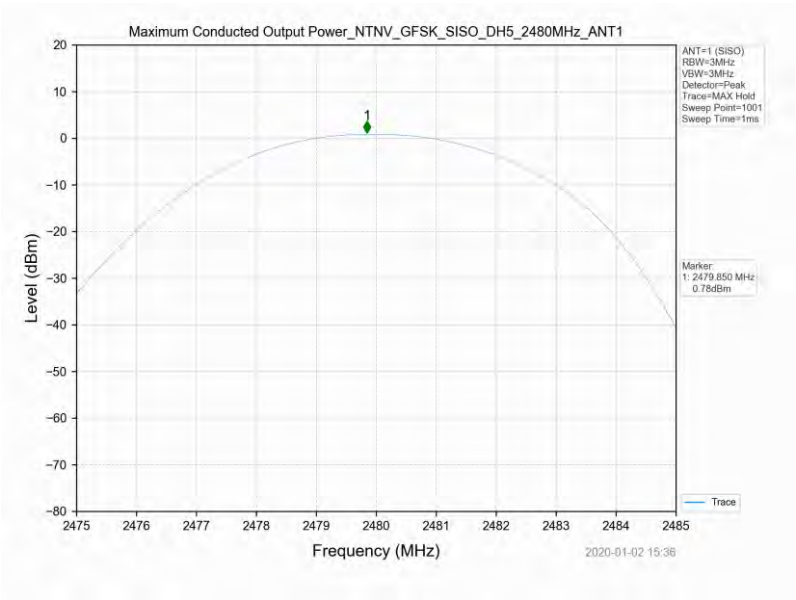
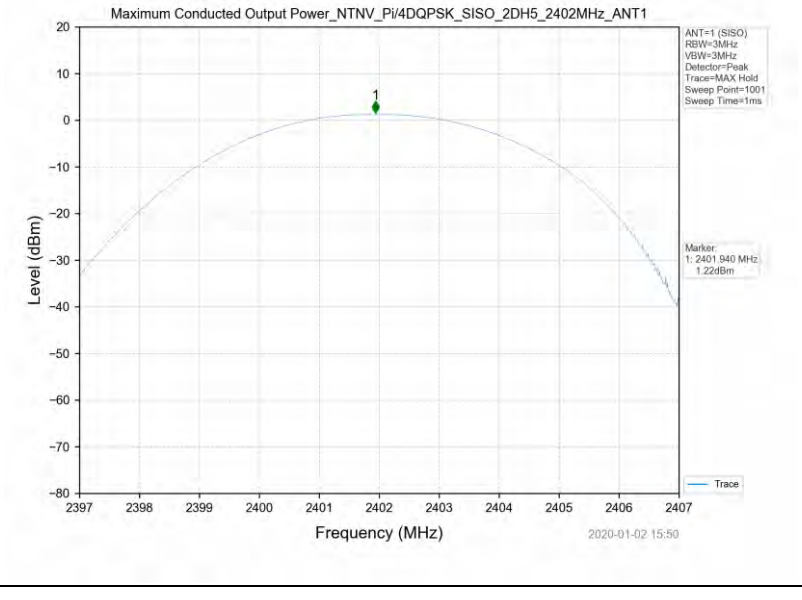
GFSK_2480MHz_DH5_SISO_ANT1


Pi/4DQPSK_2402MHz_2DH5_SISO_ANT1


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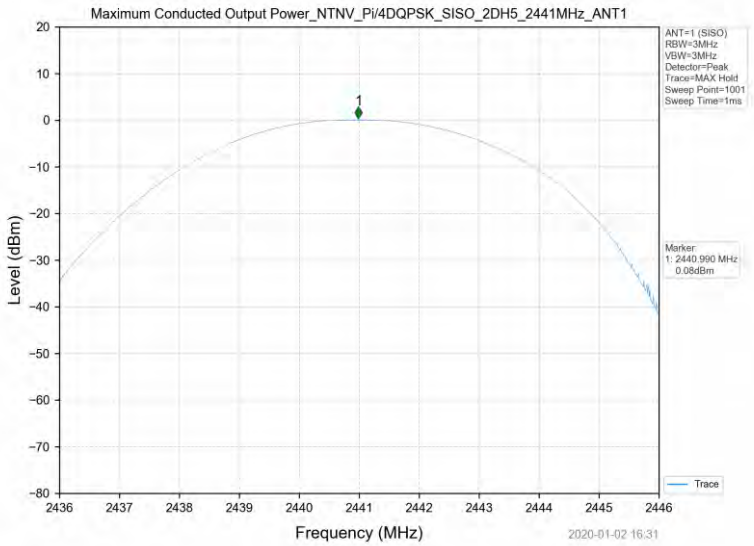
Pi/4DQPSK_2441MHz_2DH5_SISO_ANT1


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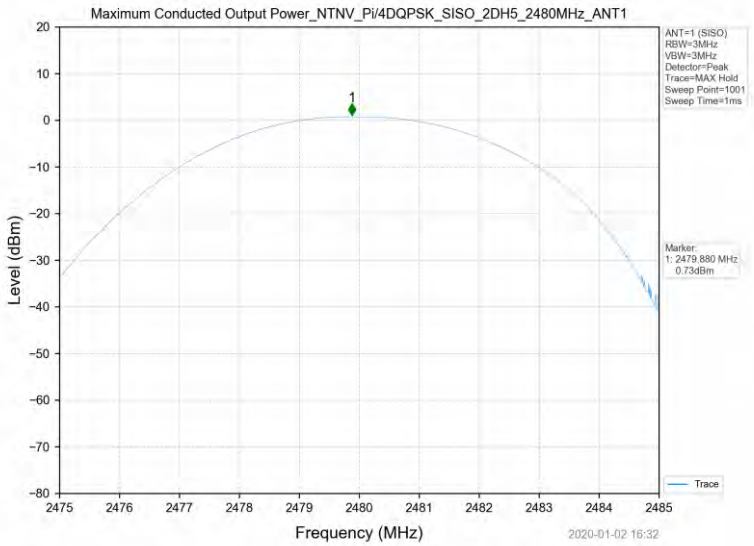

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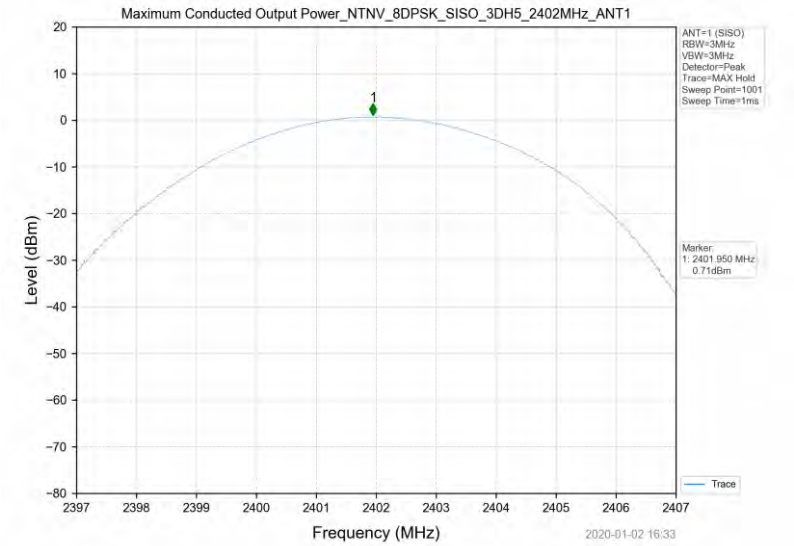

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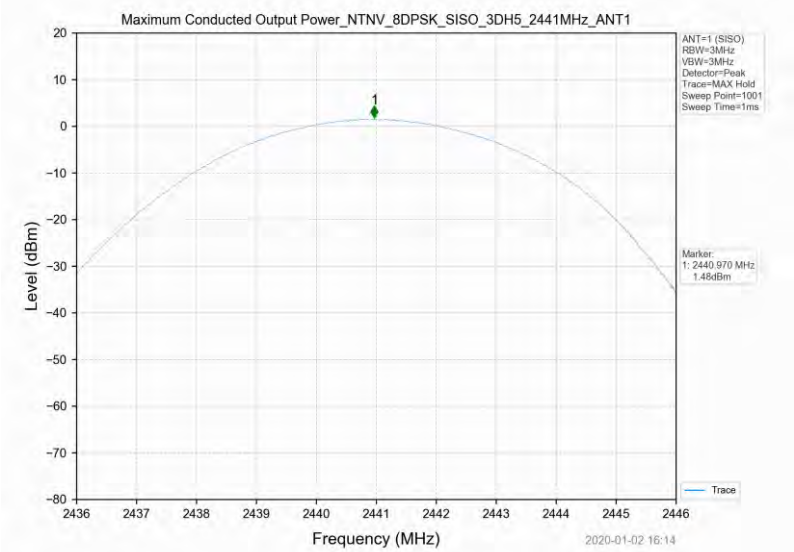

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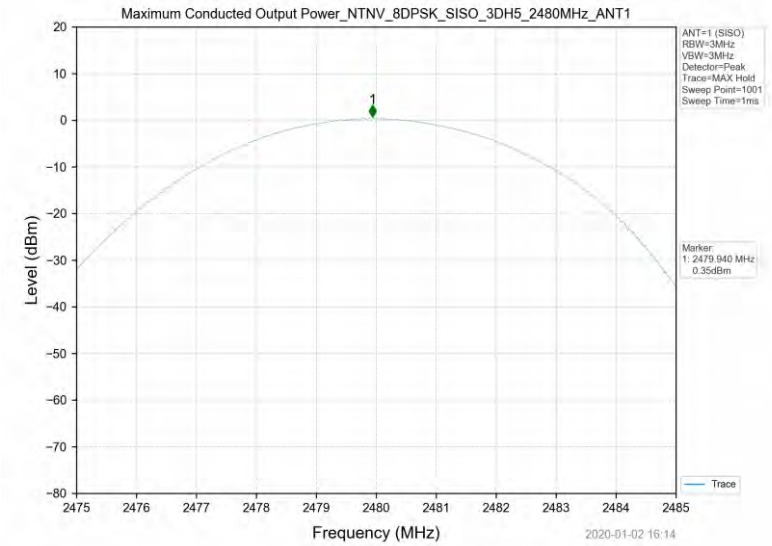
8DPSK_2480MHz_3DH5_SISO_ANT1


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3. Carrier frequency separation

3.1 Test Result

Test Mode	TX Type	ANT No.	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limits (MHz)	Verdict
GFSK	SISO	1	0.999	0.963	≥0.963	PASS
Pi/4DQPSK	SISO	1	1.002	1.350	≥0.900	PASS
8DPSK	SISO	1	0.999	1.331	≥0.887	PASS

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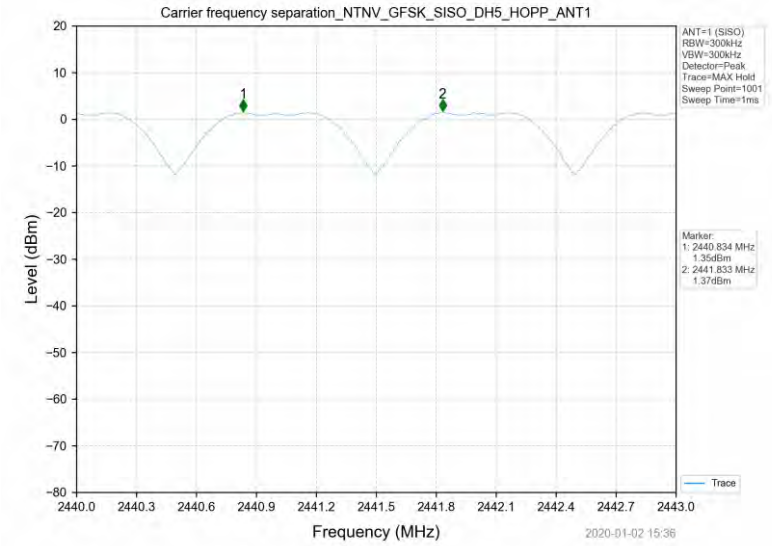
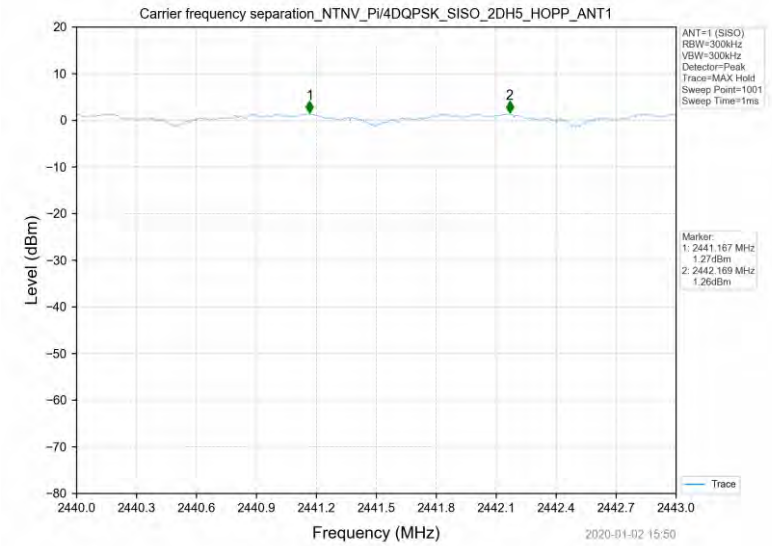
3.2 Test Graph

GFSK_Hopping_DH5_SISO_ANT1



Pi/4DQPSK_Hopping_2DH5_SISO_ANT1



8DPSK_Hopping_3DH5_SISO_ANT1

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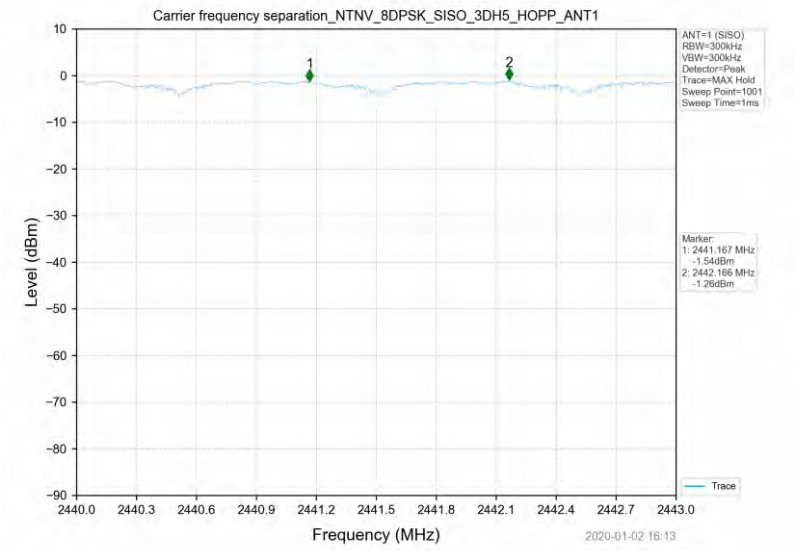

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4. Number of hopping frequencies

4.1 Test Result

Test Mode	TX Type	ANT No.	Num of Hopping Frequencies	Limits	Verdict
GFSK	SISO	1	79	≥15	PASS
Pi/4DQPSK	SISO	1	79	≥15	PASS
8DPSK	SISO	1	79	≥15	PASS

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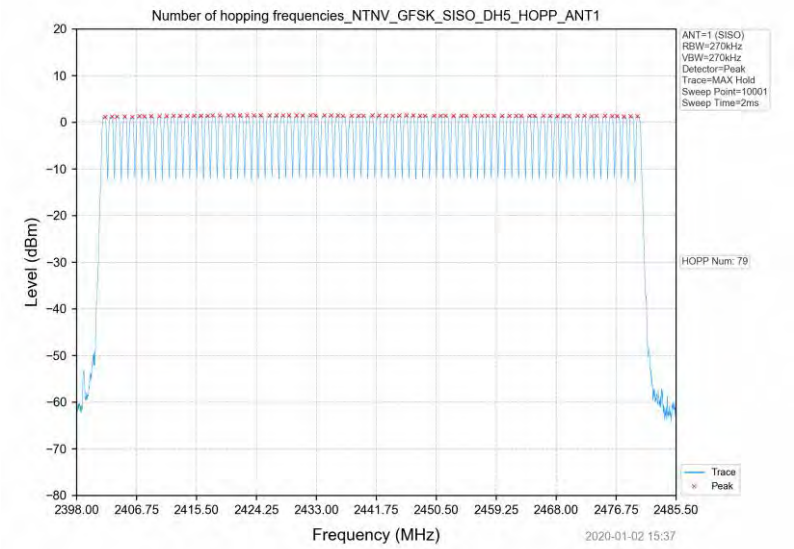
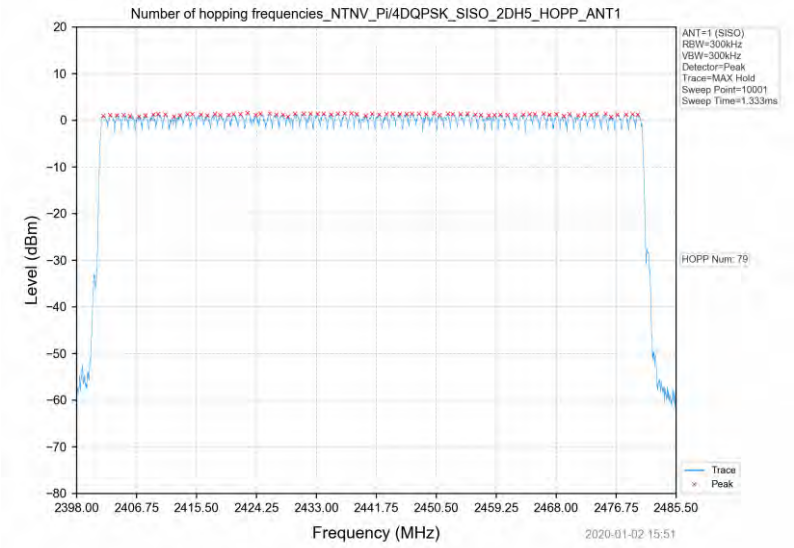
4.2 Test Graph

GFSK_Hopping_DH5_SISO_ANT1



Pi/4DQPSK_Hopping_2DH5_SISO_ANT1



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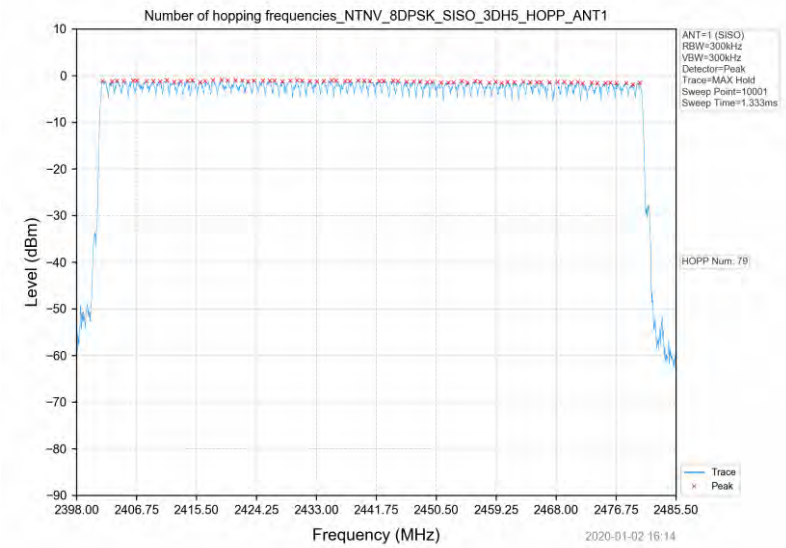
8DPSK_Hopping_3DH5_SISO_ANT1


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5. Time of occupancy (dwell time)

5.1 Test Result

Test Mode	Packet Type	TX Type	ANT No.	Duration of Single Pulse (ms)	Obeservation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limits (ms)	Verdict
GFSK	DH1	SISO	1	0.388	31.6	320	124.160	≤400	PASS
	DH3	SISO	1	1.644	31.6	160	263.040	≤400	PASS
	DH5	SISO	1	2.892	31.6	107	309.444	≤400	PASS
Pi/4DQPSK	2DH1	SISO	1	0.399	31.6	320	127.680	≤400	PASS
	2DH3	SISO	1	1.650	31.6	160	264.000	≤400	PASS
	2DH5	SISO	1	2.898	31.6	106	307.188	≤400	PASS
8DPSK	3DH1	SISO	1	0.398	31.6	320	127.360	≤400	PASS
	3DH3	SISO	1	1.648	31.6	160	263.680	≤400	PASS
	3DH5	SISO	1	2.900	31.6	107	310.300	≤400	PASS

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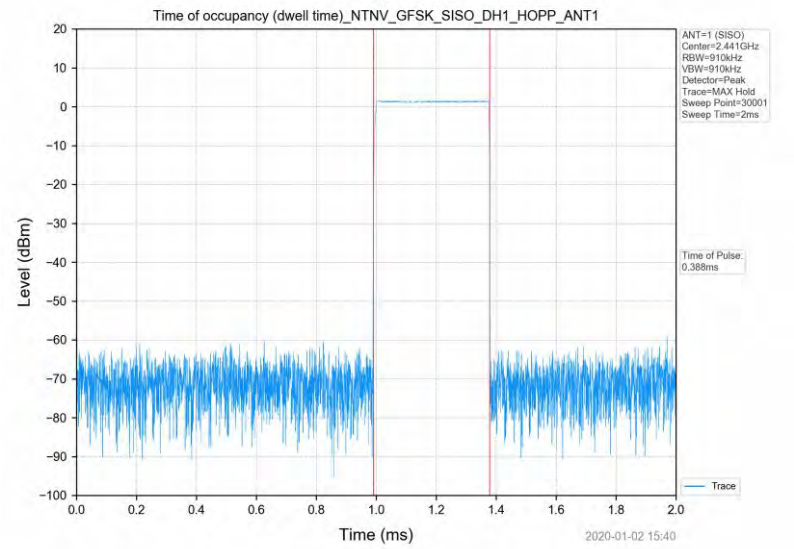
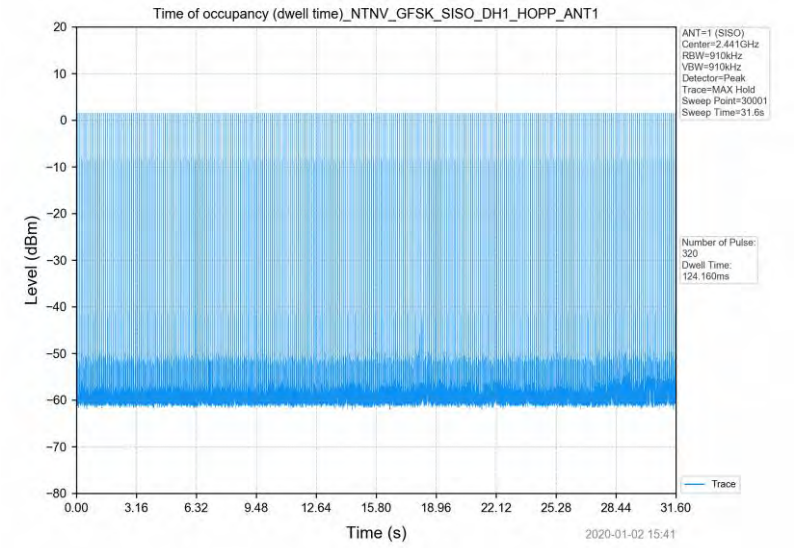
5.2 Test Graph

GFSK_Hopping_DH1_SISO_ANT1



GFSK_Hopping_DH1_SISO_ANT1



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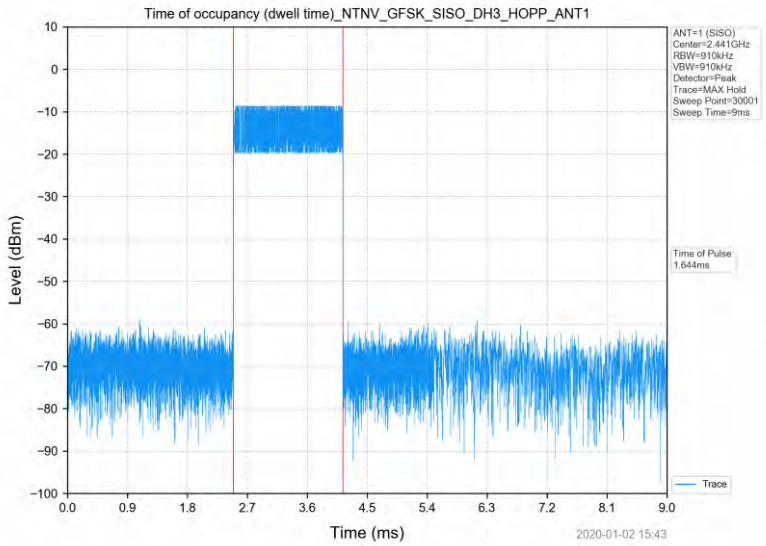
GFSK_Hopping_DH3_SISO_ANT1


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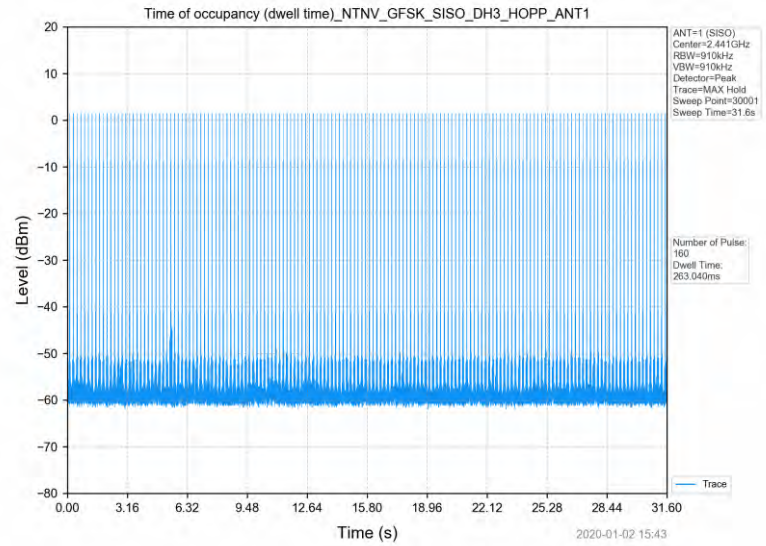

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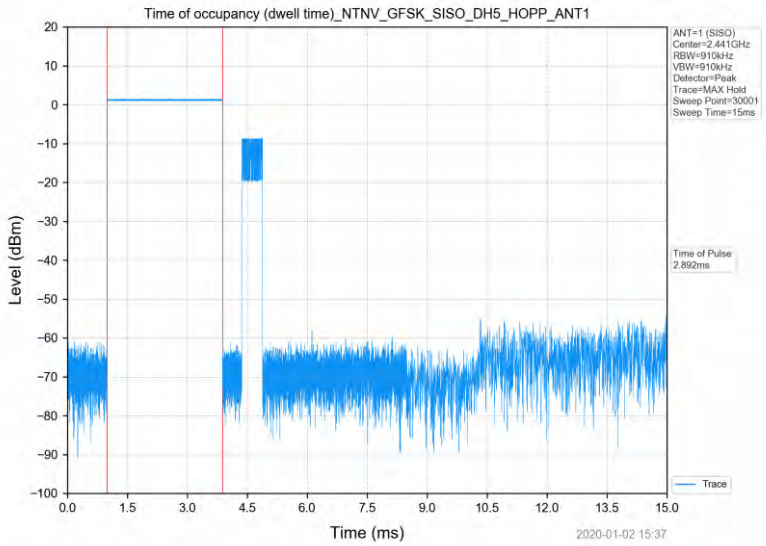
GFSK_Hopping_DH5_SISO_ANT1


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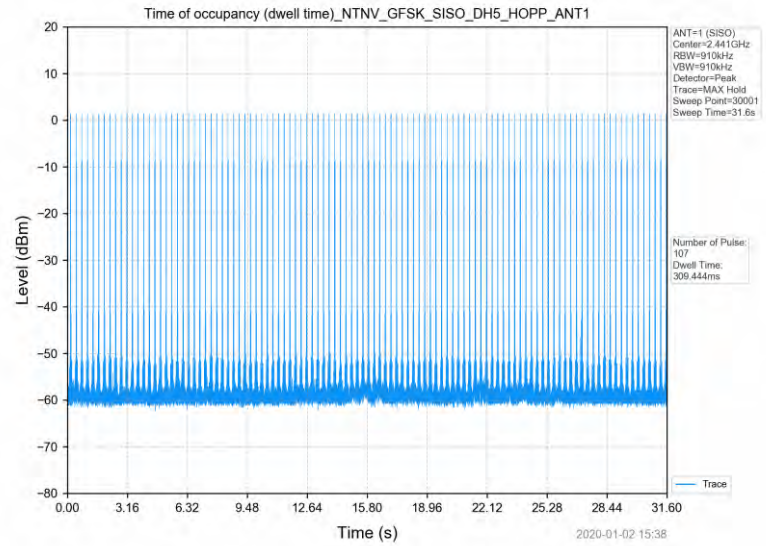

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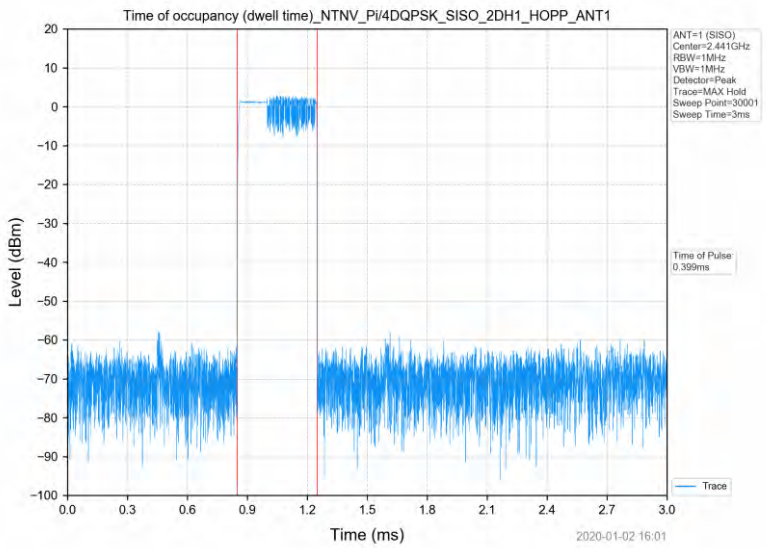

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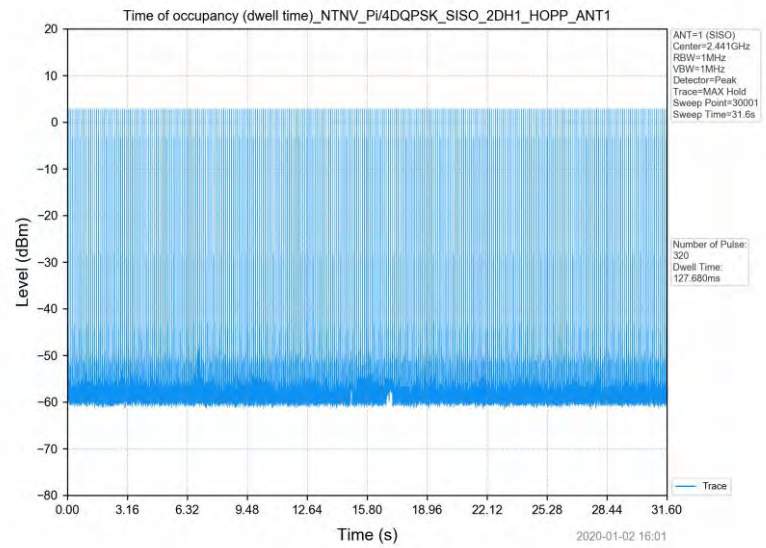

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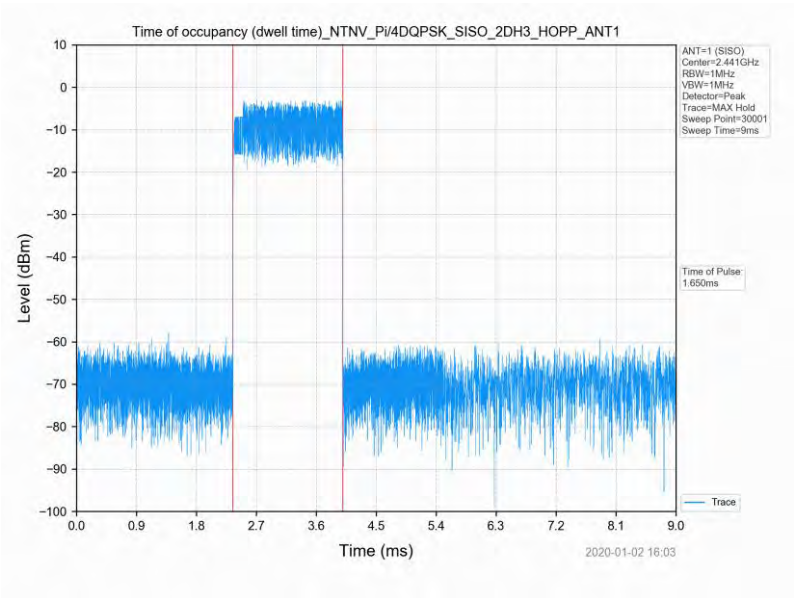
Pi/4DQPSK_Hopping_2DH3_SISO_ANT1


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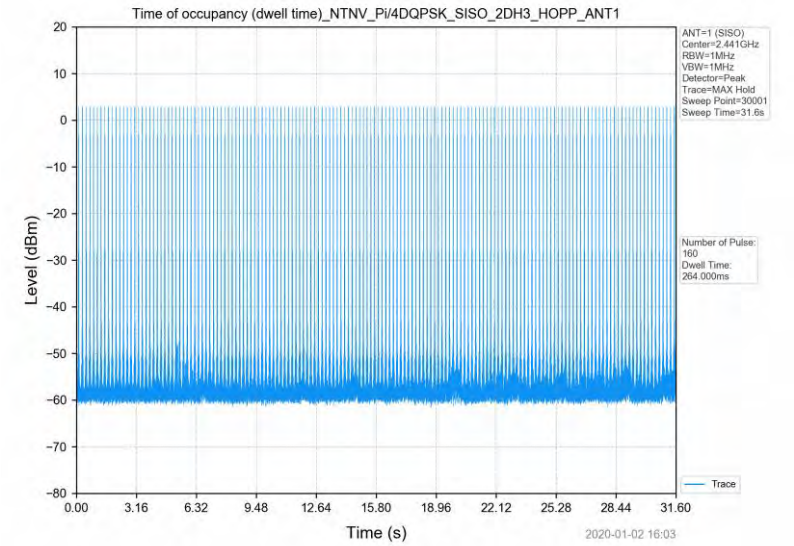

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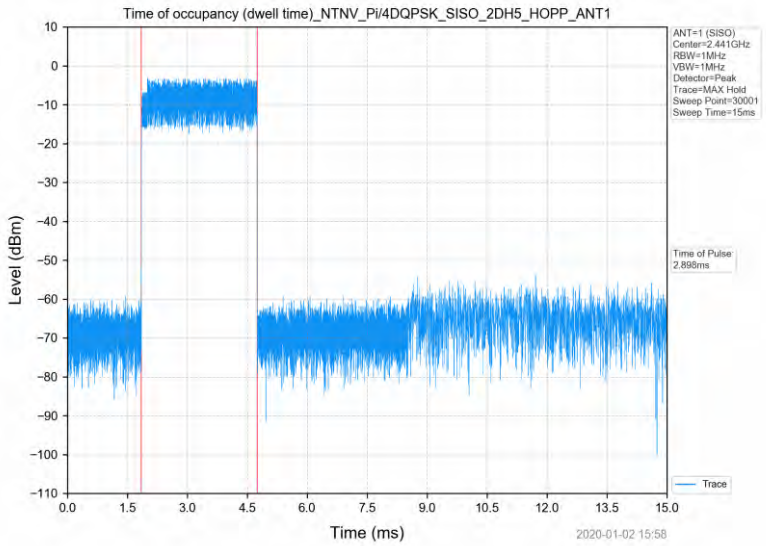

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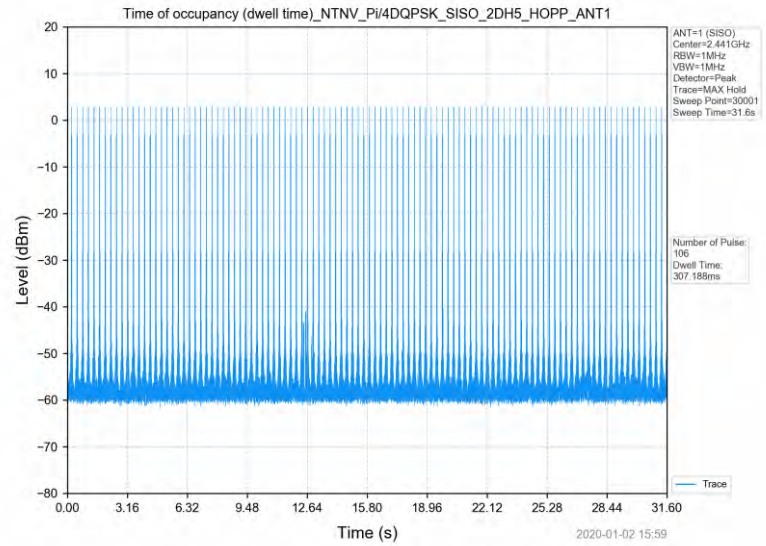

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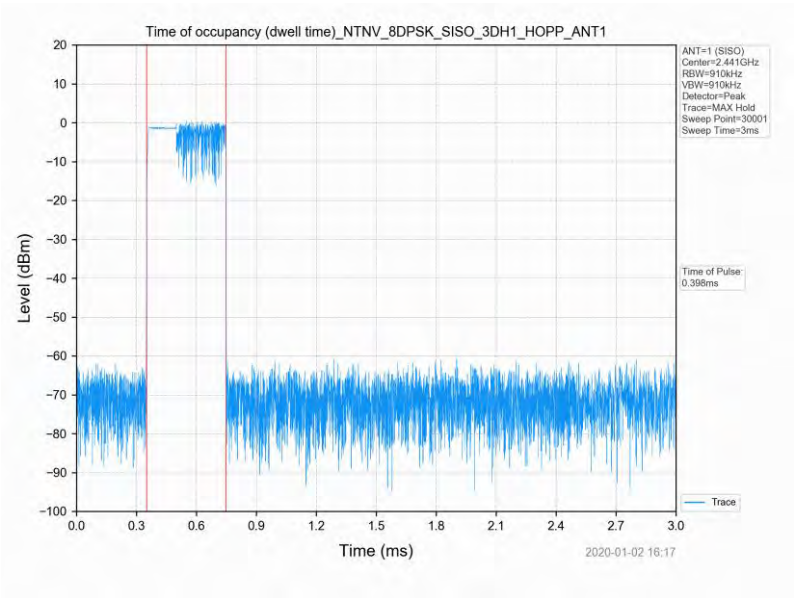
8DPSK_Hopping_3DH1_SISO_ANT1

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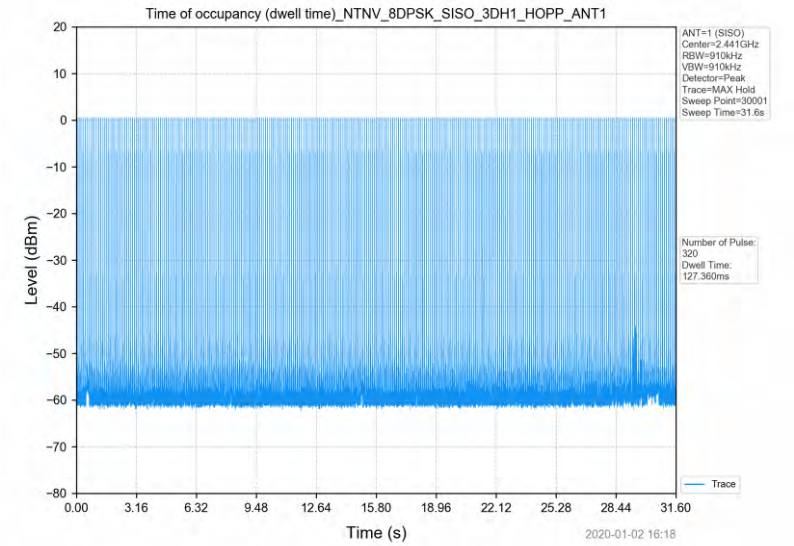

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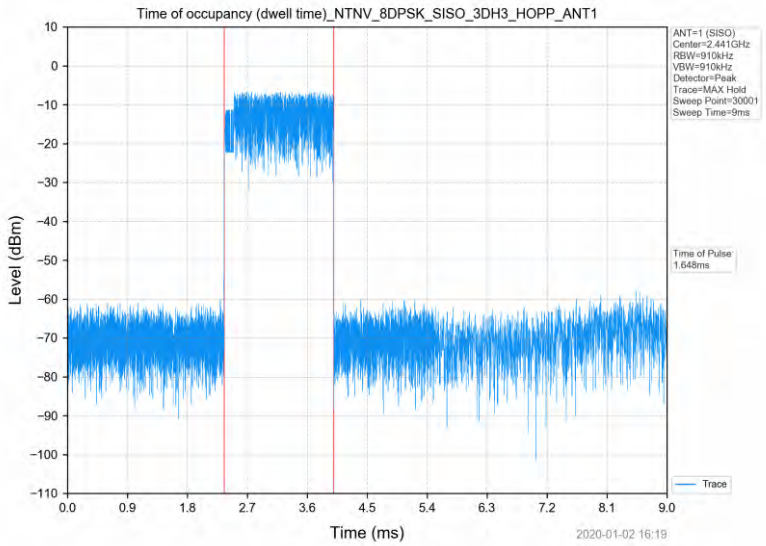
8DPSK_Hopping_3DH3_SISO_ANT1


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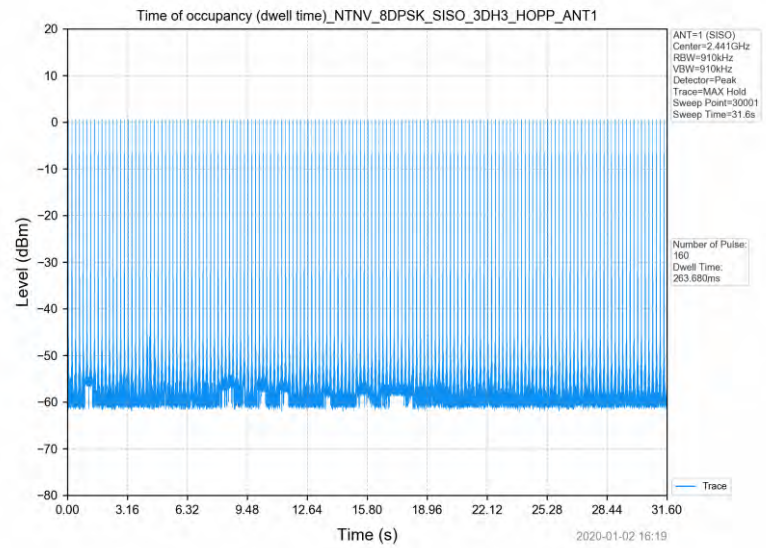

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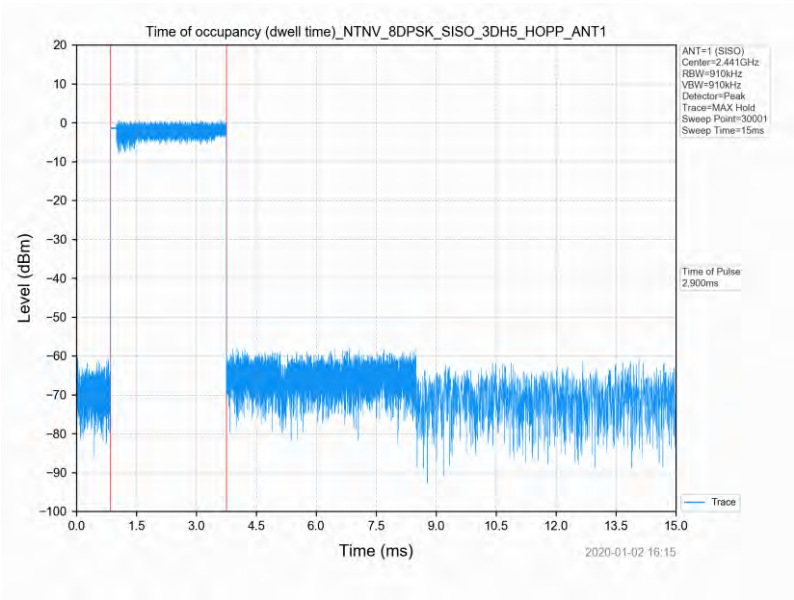

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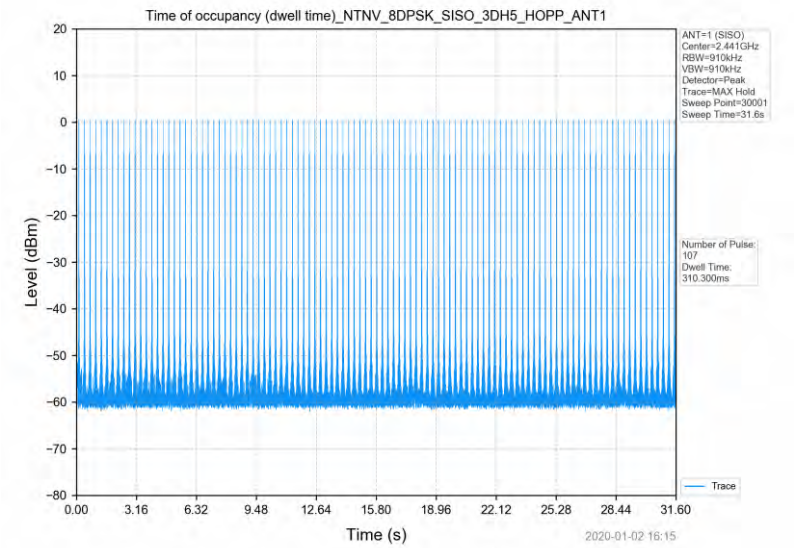

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6. Unwanted Emissions in Non-restricted Frequency Bands

6.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
GFSK	2402	SISO	1	Refer to test graph	-19.02	PASS
	2441	SISO	1	Refer to test graph	-19.02	PASS
	2480	SISO	1	Refer to test graph	-19.02	PASS
	Hopping	SISO	1	Refer to test graph	-19.02	PASS
Pi/4DQPSK	2402	SISO	1	Refer to test graph	-18.96	PASS
	2441	SISO	1	Refer to test graph	-18.96	PASS
	2480	SISO	1	Refer to test graph	-18.96	PASS
	Hopping	SISO	1	Refer to test graph	-18.96	PASS
8DPSK	2402	SISO	1	Refer to test graph	-21.24	PASS
	2441	SISO	1	Refer to test graph	-21.24	PASS
	2480	SISO	1	Refer to test graph	-21.24	PASS
	Hopping	SISO	1	Refer to test graph	-21.24	PASS

检验检测专用章 Inspection & Testing Services
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Laboratory

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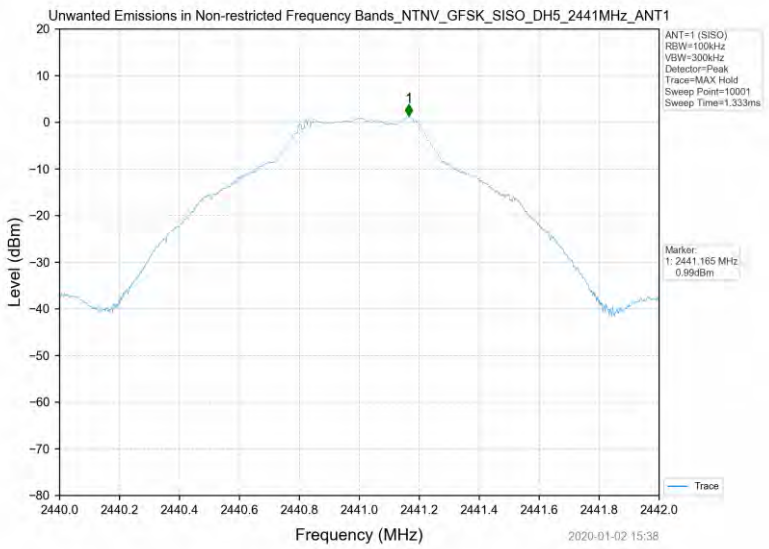
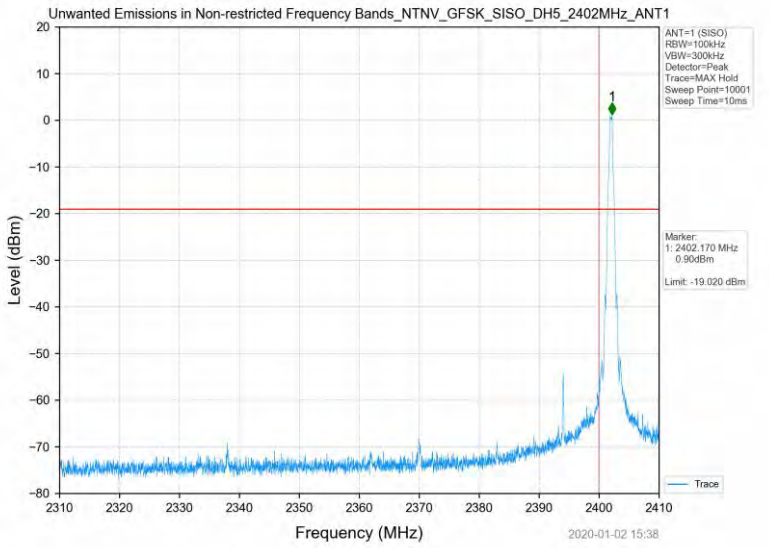
6.2 Test Graph

GFSK_DH5_SISO_ANT1_REF



GFSK_2402MHz_DH5_SISO_ANT1



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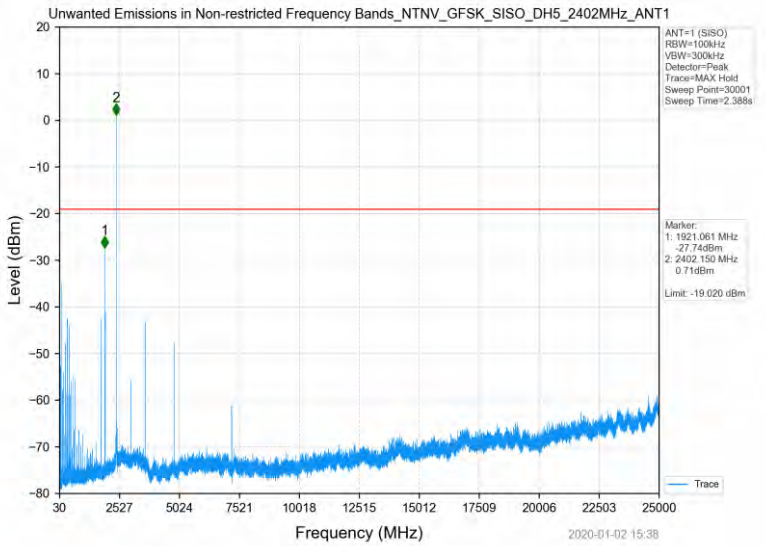
GFSK_2402MHz_DH5_SISO_ANT1


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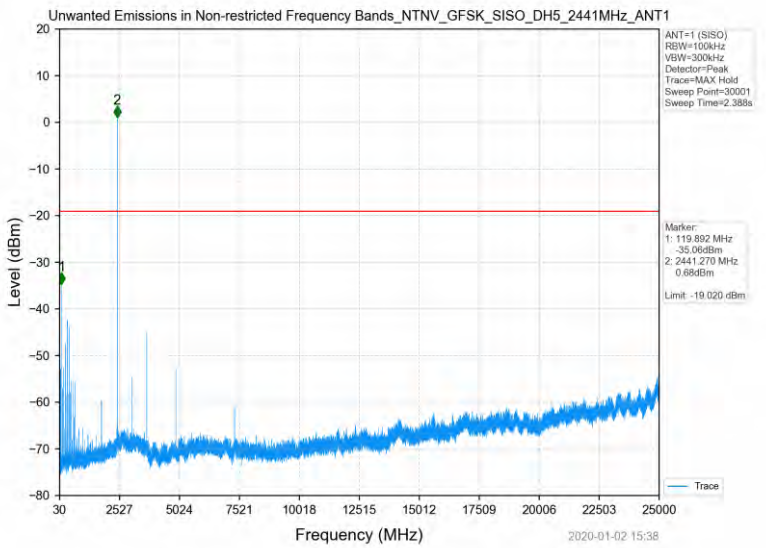

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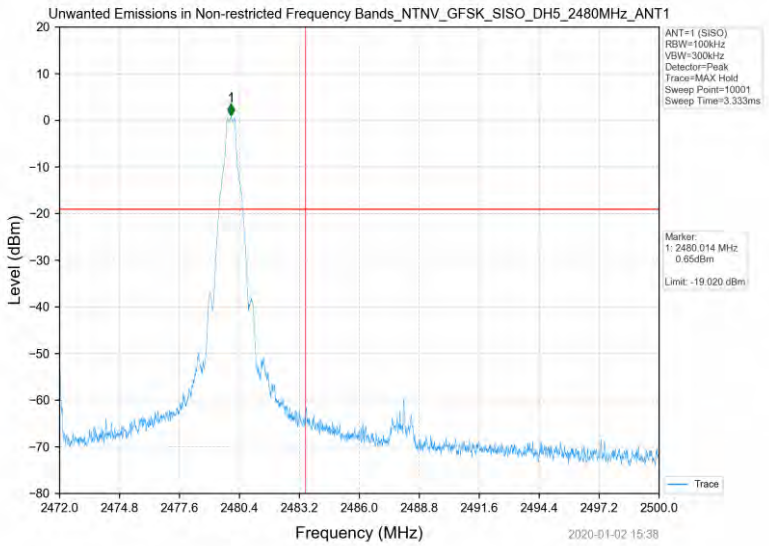
GFSK_2480MHz_DH5_SISO_ANT1


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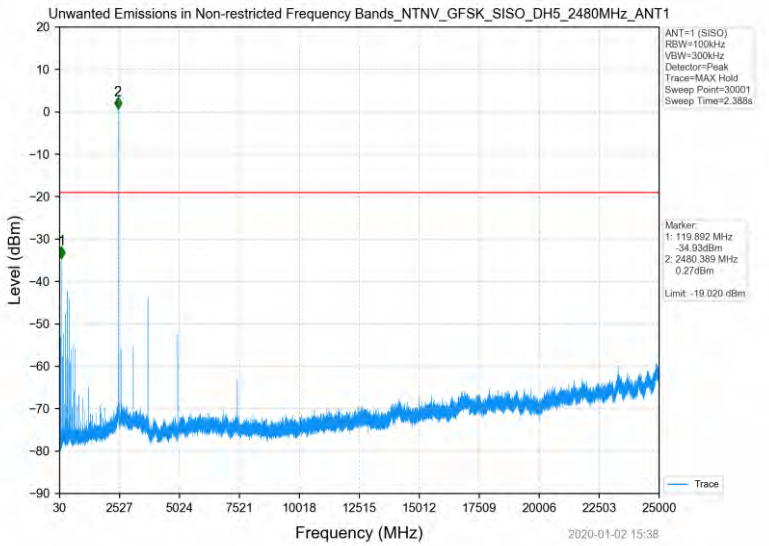

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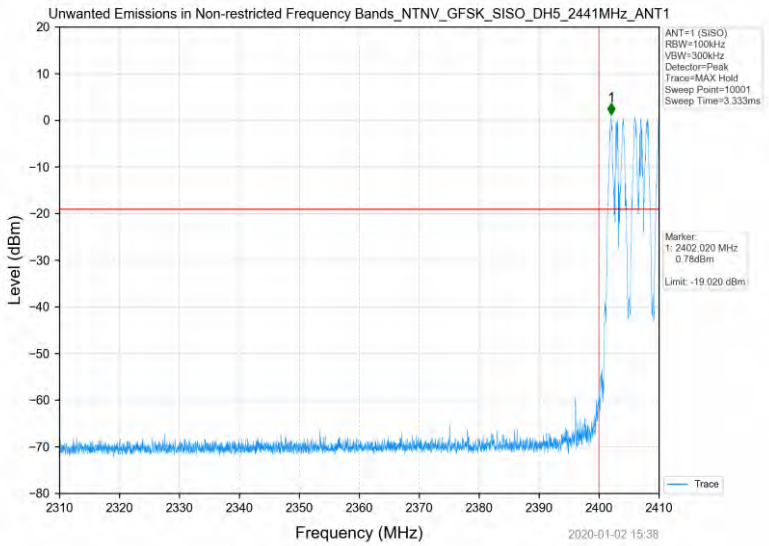

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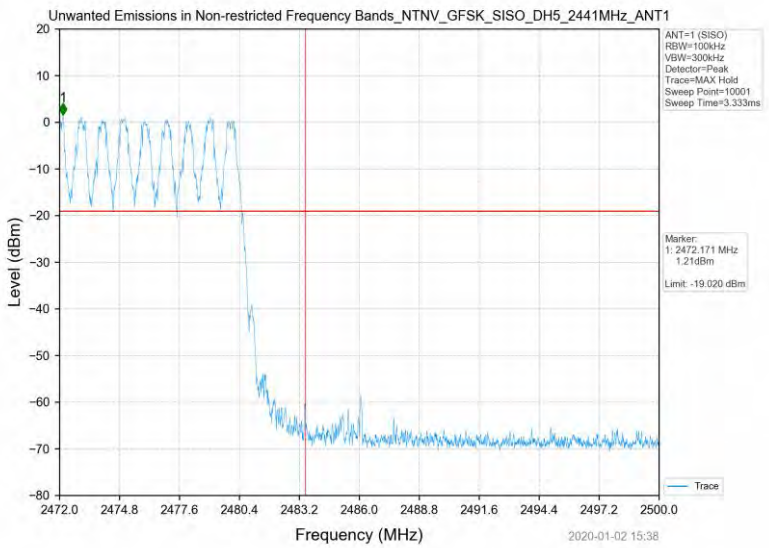

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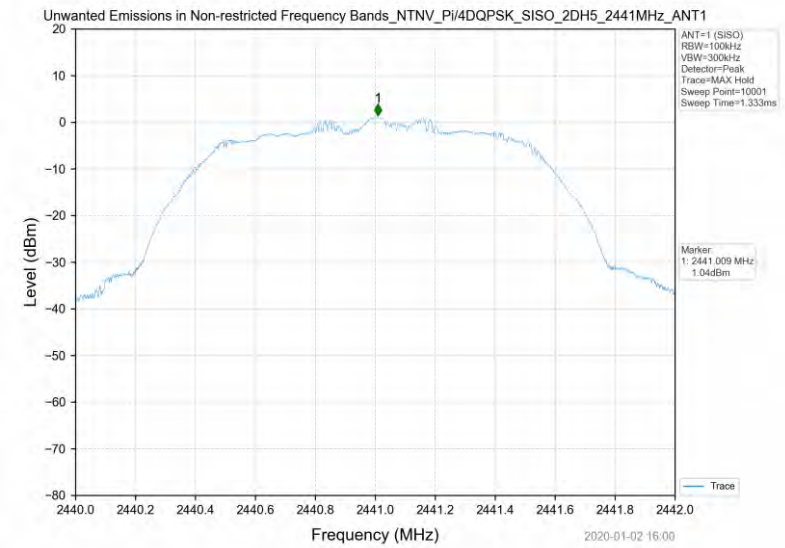

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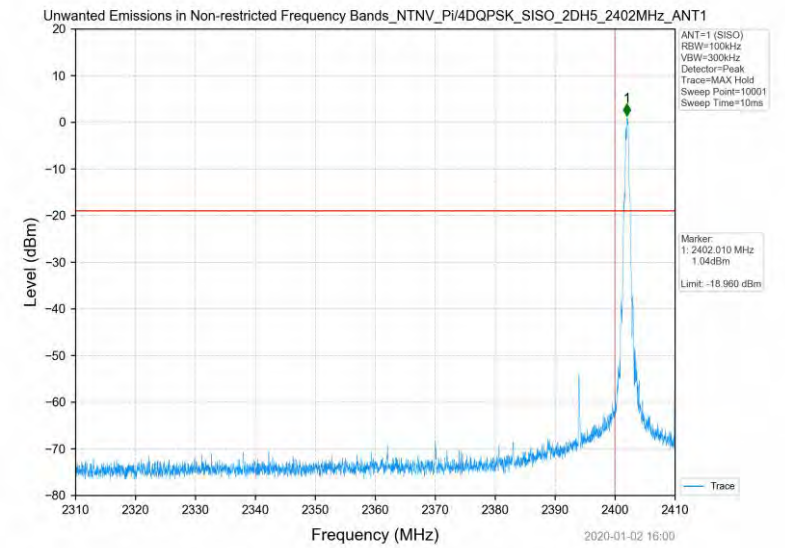

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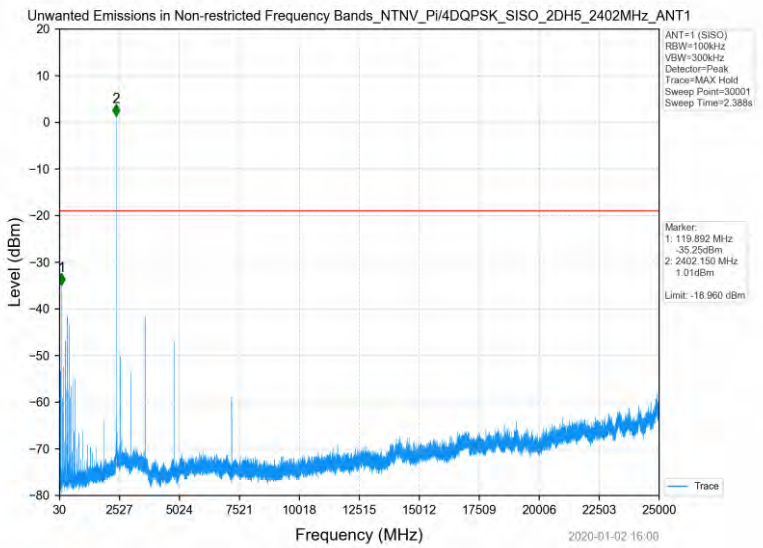

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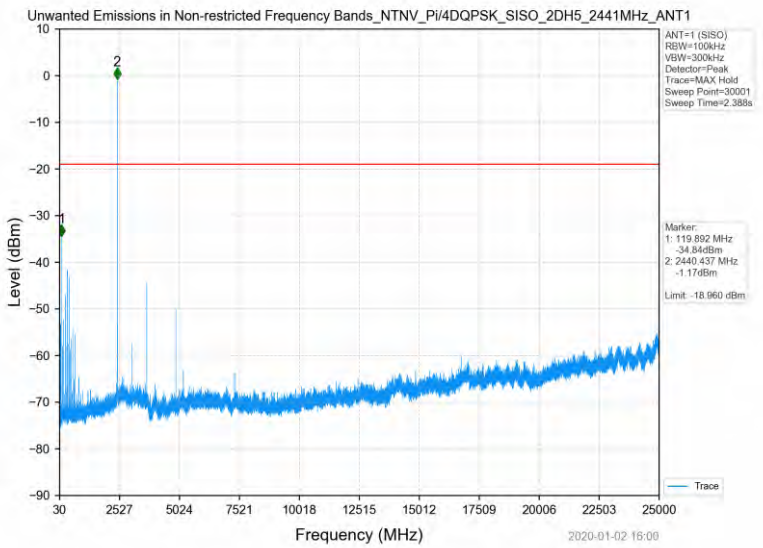

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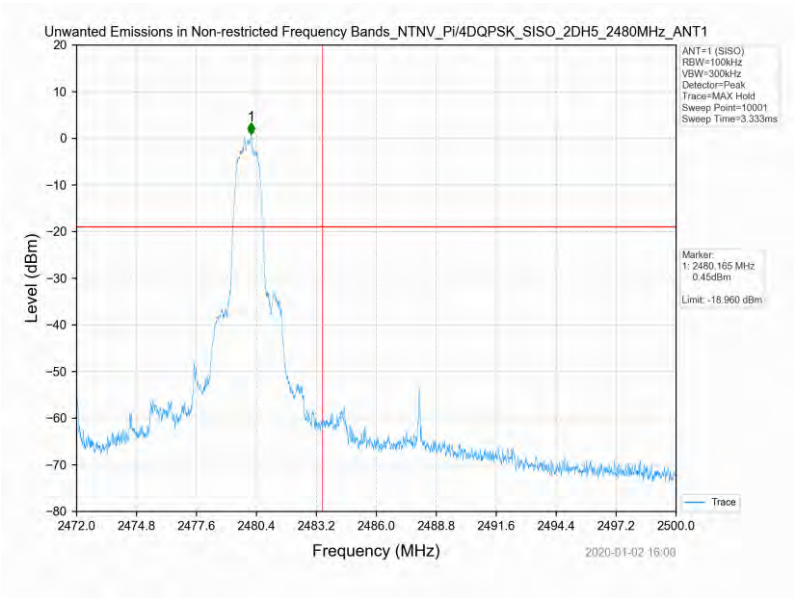

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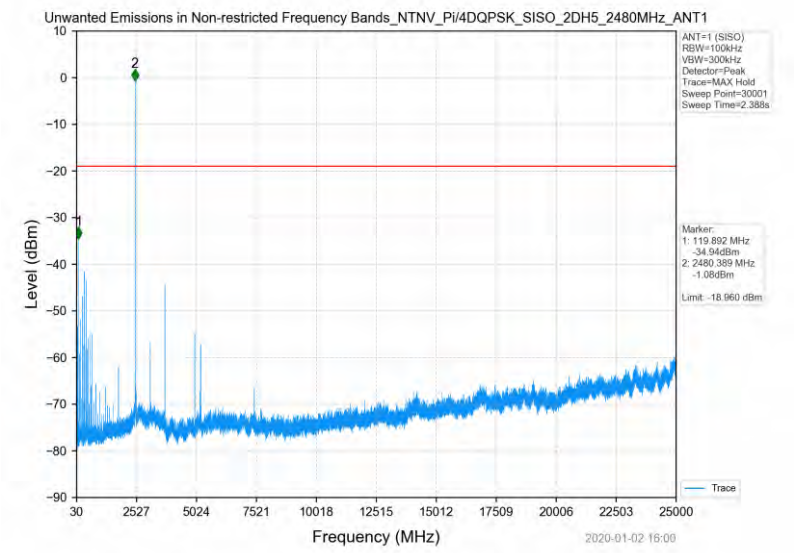

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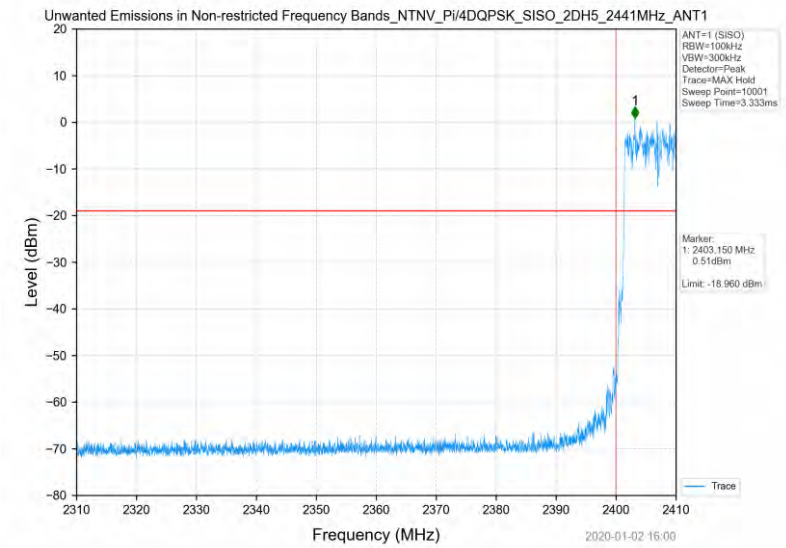

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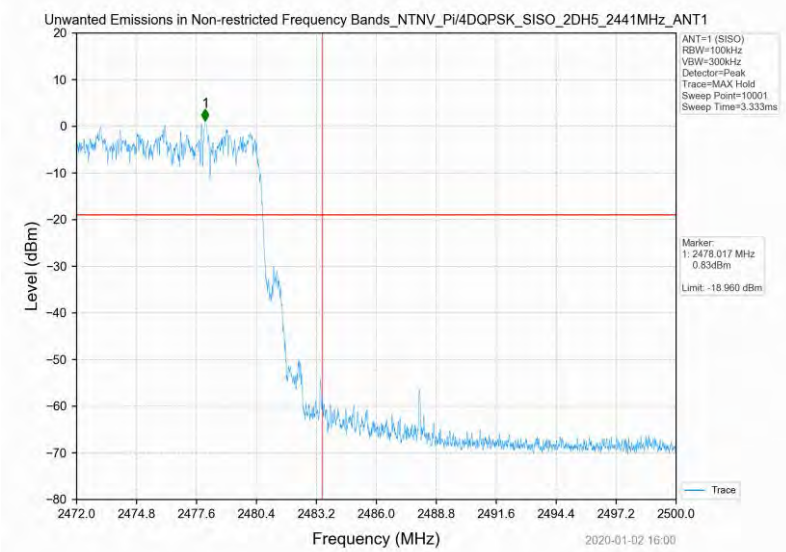

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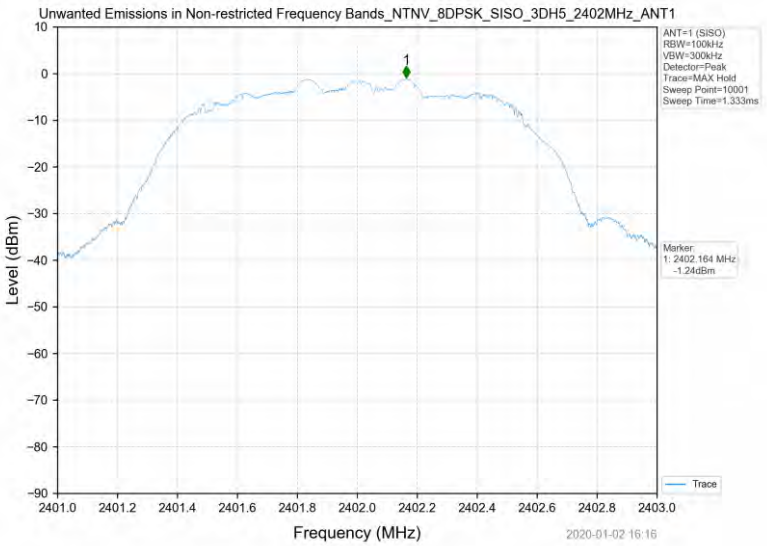

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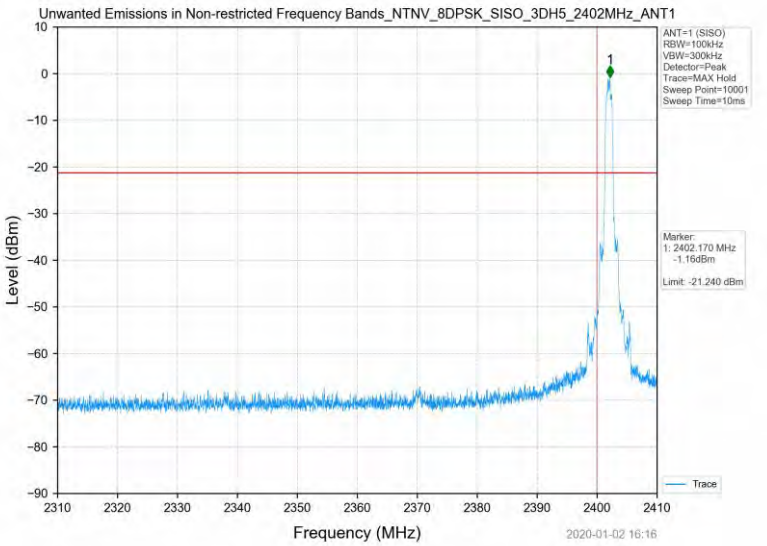

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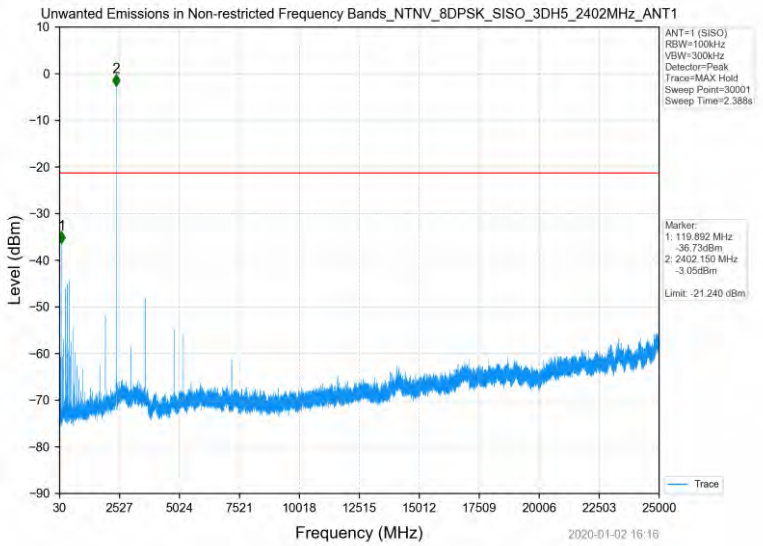

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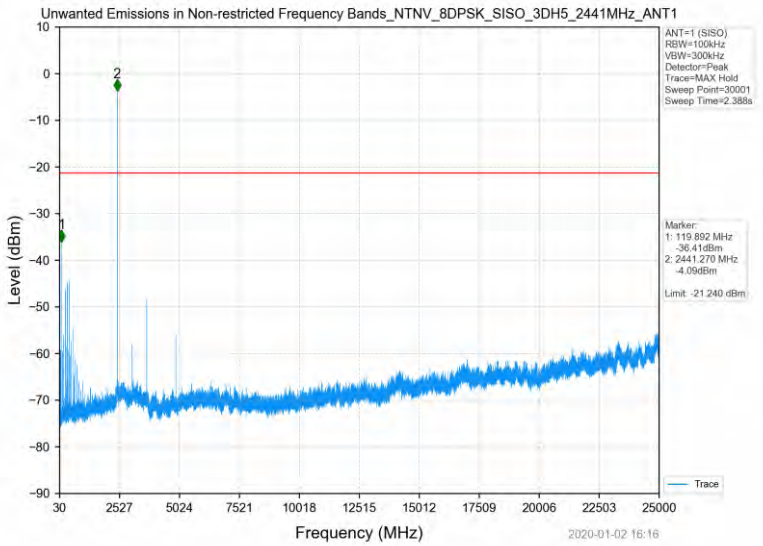

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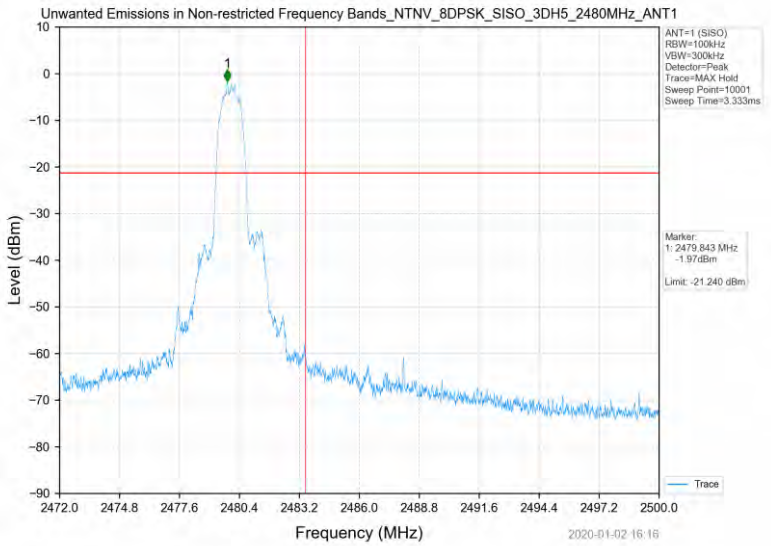

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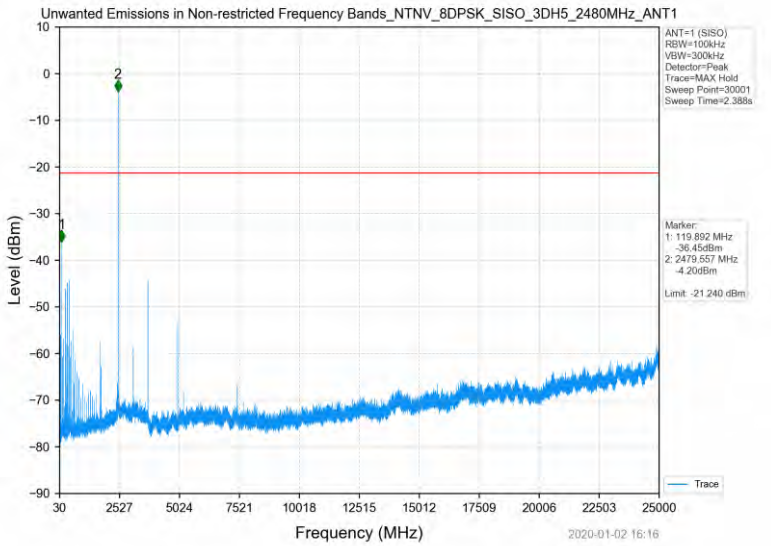

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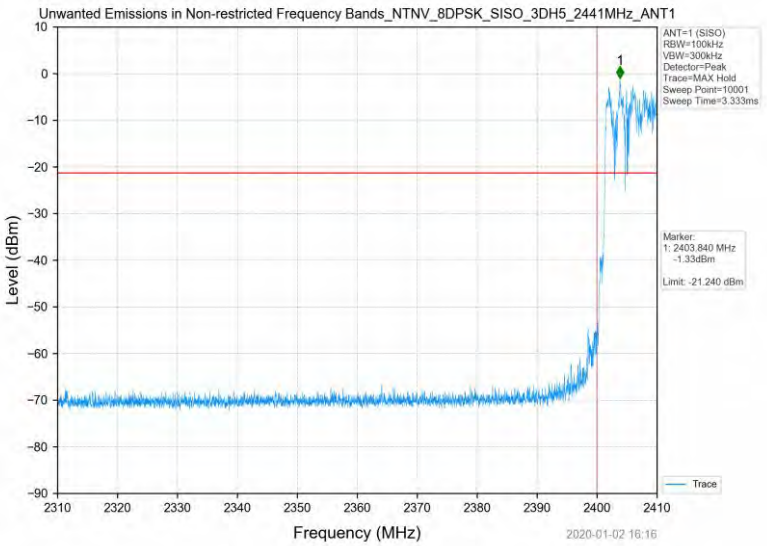

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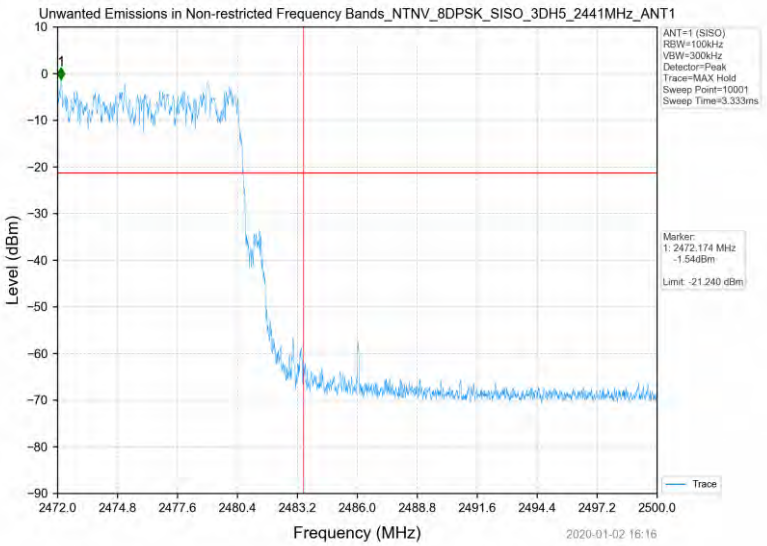

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