



TEST REPORT

Application No.: SZEM2012012652CR
Applicant: KanDao Technology Co., Ltd.
Address of Applicant: 201 Sino-Steel building, Maqueling Industrial District, Maling Area, Yuehai Street, Nanshan, Shenzhen
Manufacturer: KanDao Technology Co., Ltd.
Address of Manufacturer: 201 Sino-Steel building, Maqueling Industrial District, Maling Area, Yuehai Street, Nanshan, Shenzhen
Factory: SKY LIGHT ELECTRONIC (SHENZHEN) LIMITED
Address of Factory: 1F-2F OF NO.9, 1F-5F OF NO.8, ANTUOSHAN HIGH-TECH. INDUSTRIAL PARK, SHAER COMMUNITY, SHAJING STREET, BAO'AN DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE

Equipment Under Test (EUT):

EUT Name: Kandao Meeting Pro 360 Conferencing Camera
Model No.: MT0822
Trade Mark: KanDao
FCC ID: 2ATPV-KDMT
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2020-12-10
Date of Test: 2020-12-14 to 2020-12-25
Date of Issue: 2020-12-25

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

Keny Xu
EMC Laboratory Manager



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Inspection & Testing Services Laboratory

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2020-12-25		Original

Authorized for issue by:			
		Damon Su	
		<hr/> Damon Su/Project Engineer	
		Eric Fu	
		<hr/> Eric Fu/Reviewer	



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

Emission Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass

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4 General Information

4.1 Details of E.U.T.

Rated voltage:	AC 120V
Test voltage:	AC 120V
Power adapter:	Adapter1 Model No: ASSA112w-P60W20 Input: AC 100-240V 50/60Hz 1.5A Output: DC 5V 3A or 9V 3A or 12V 3A or 15V 3A or 20V 3A Adapter2 Model No.: P0571-BZ Input: AC 100-240V 50/60Hz 1.5A PD Output: 60W(5V 3A, 9V 3A, 12V 3A, 15V 3A, 20V 3A)
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V4.2 Dual mode
Modulation Type:	GFSK, pi/4DQPSK, 8DPSK
Number of Channels:	79
Channel Spacing:	1MHz
Spectrum Spread Technology:	Frequency Hopping Spread Spectrum(FHSS)
Antenna Type:	PIFA Antenna
Antenna Gain:	3dBi

Remark: The EUT with 2 adapters, Conducted Emissions at AC Power Line (150kHz-30MHz), Radiated Spurious Emissions(below 1GHz) do fully tested, and Radiated Spurious Emissions(Above 1GHz) pre-scan 2 adapters, only record the worst case.

4.2 Cable

Cable	Length	Shielding	Core
HDMI Cable	1.0m	Shielded	With-Core
Type-C Cable	3.0m	Shielded	Non-Core

4.3 Description of Support Units

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



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4.4 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.0dB (150kHz to 30MHz)
Conducted Peak Output Power	± 0.75dB
20dB Bandwidth	± 3%
Carrier Frequencies Separation	± 7.25 x 10-8
Hopping Channel Number	± 7.25 x 10-8
Dwell Time	± 0.37%
Conducted Band Edges Measurement	± 0.75dB
Conducted Spurious Emissions	± 0.75dB
Radiated Emissions which fall in the restricted bands	± 4.5dB (Below 1GHz);± 4.8dB (Above 1GHz)
Radiated Spurious Emissions	± 4.5dB (Below 1GHz);± 4.8dB (Above 1GHz)

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cispr} (CISPR Uncertainty), so the test results

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

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4.5 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.

4.6 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.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None

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Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2020-05-21	2021-05-20

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	FSU43	SEM004-08	2020-04-01	2021-03-31
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2020-05-21	2021-05-20

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	FSU43	SEM004-08	2020-04-01	2021-03-31
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2020-05-21	2021-05-20

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	FSU43	SEM004-08	2020-04-01	2021-03-31
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2020-05-21	2021-05-20

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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	FSU43	SEM004-08	2020-04-01	2021-03-31
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2020-05-21	2021-05-20

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
EXA Signal Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2020-09-23	2021-09-22
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09
Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2020-11-14	2023-11-13
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020-04-01	2021-03-31

Radiated Spurious Emissions

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
EXA Signal Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2020-09-23	2021-09-22
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09
Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2020-11-14	2023-11-13

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Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020-04-01	2021-03-31
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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	2020-07-19	2023-07-18
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2020-07-10	2021-07-09
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-15	2020-11-02	2021-11-01
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-02	2019-05-24	2022-05-23
Pre-amplifier	Agilent Technologies	8447D	SEM005-01	2020-04-01	2021-03-31

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2020-09-15	2021-09-14
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2020-09-15	2021-09-14
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2020-04-07	2021-04-06



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)

Limit:

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 3dBi.

Antenna location: Refer to Internal photos.



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6.2 Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence

6.2.1 Test Requirement:

47 CFR Part 15, Subpart C 15.247(a)(1),(g),(h)

Limit:

Standard Requirement:

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

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

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

Compliance for section 15.247(a)(1):

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

- > Number of shift register stages: 9
- > Length of pseudo-random sequence: $2^9 - 1 = 511$ bits
- > Longest sequence of zeros: 8 (non-inverted signal)

Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:

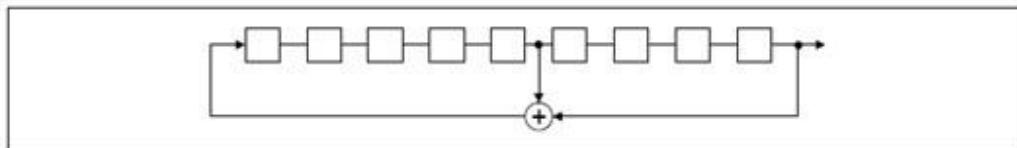


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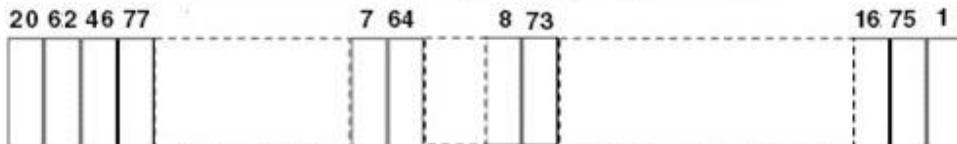
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*Linear Feedback Shift Register for Generation of the PRBS sequence*

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 coordinate 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 $25 \leq$ hopping channels < 50
	1 for digital modulation
2400-2483.5	1 for ≥ 75 non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 26.8 °C Humidity: 26.8 % RH Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, p/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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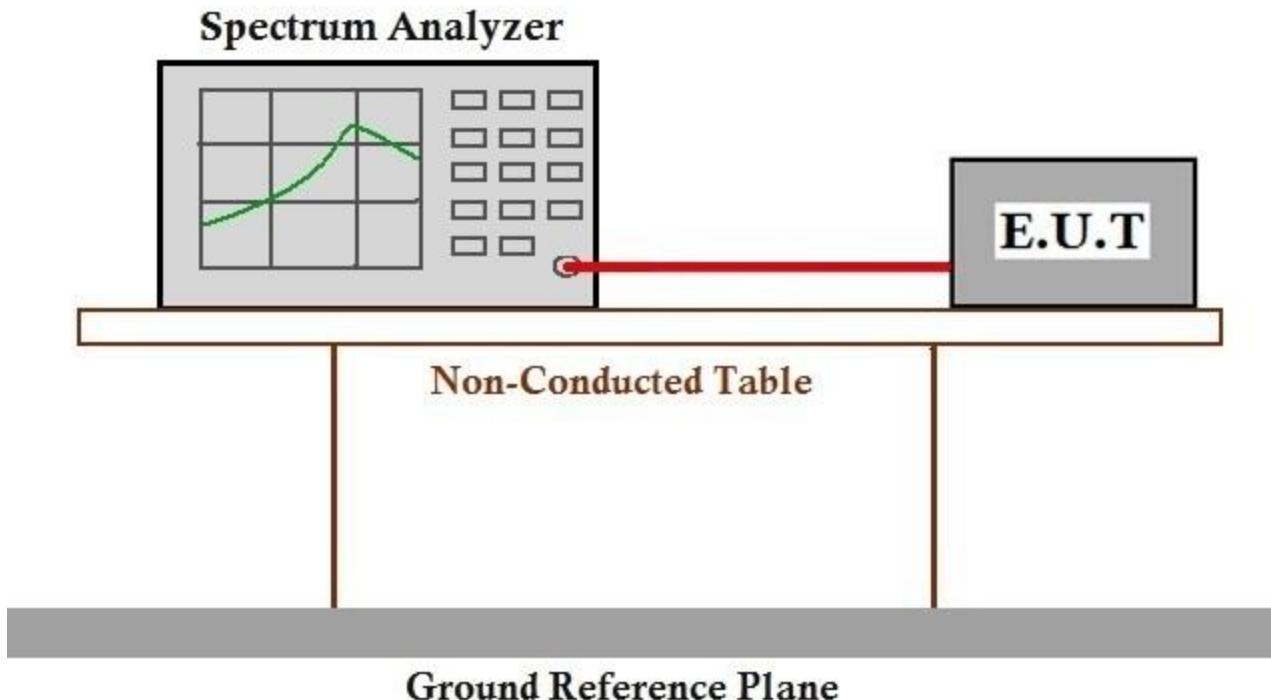
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7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

Please Refer To Appendix For Details

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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

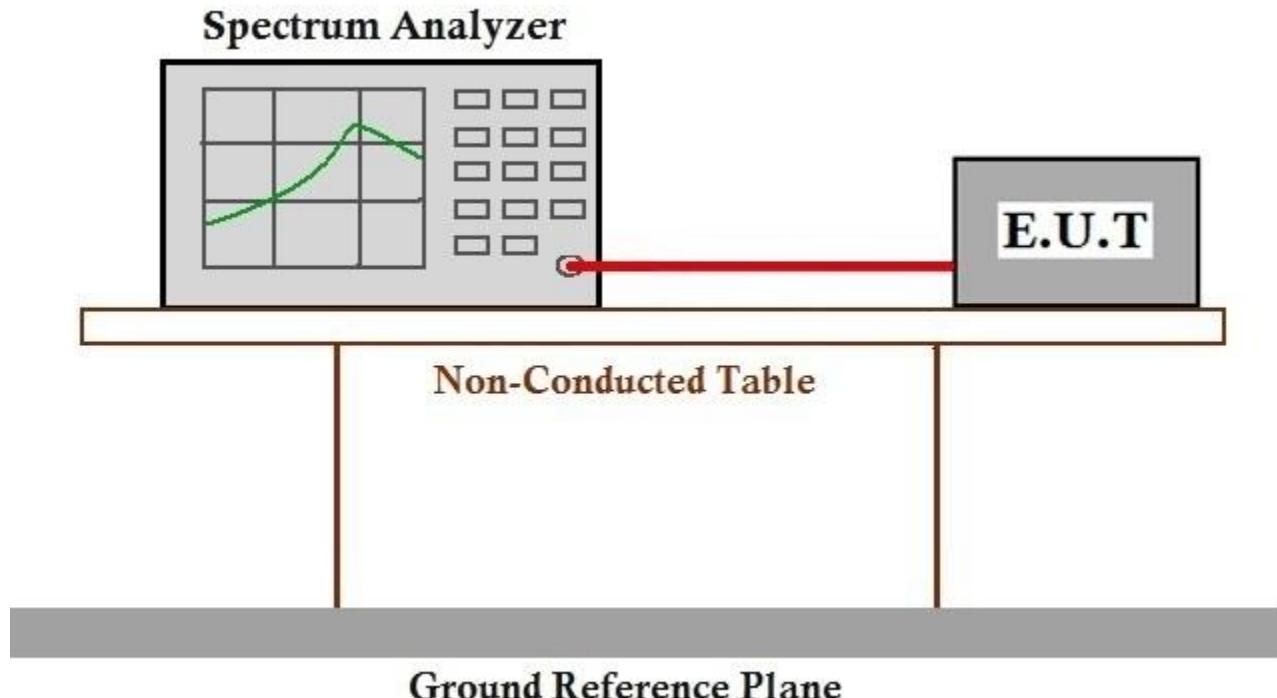
Operating Environment:

Temperature: 26.8 °C Humidity: 26.8 % RH Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

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

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

Please Refer To Appendix For Details



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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:

2/3 of the 20dB bandwidth base on the transmission power is less than 0.125W.

7.3.1 E.U.T. Operation

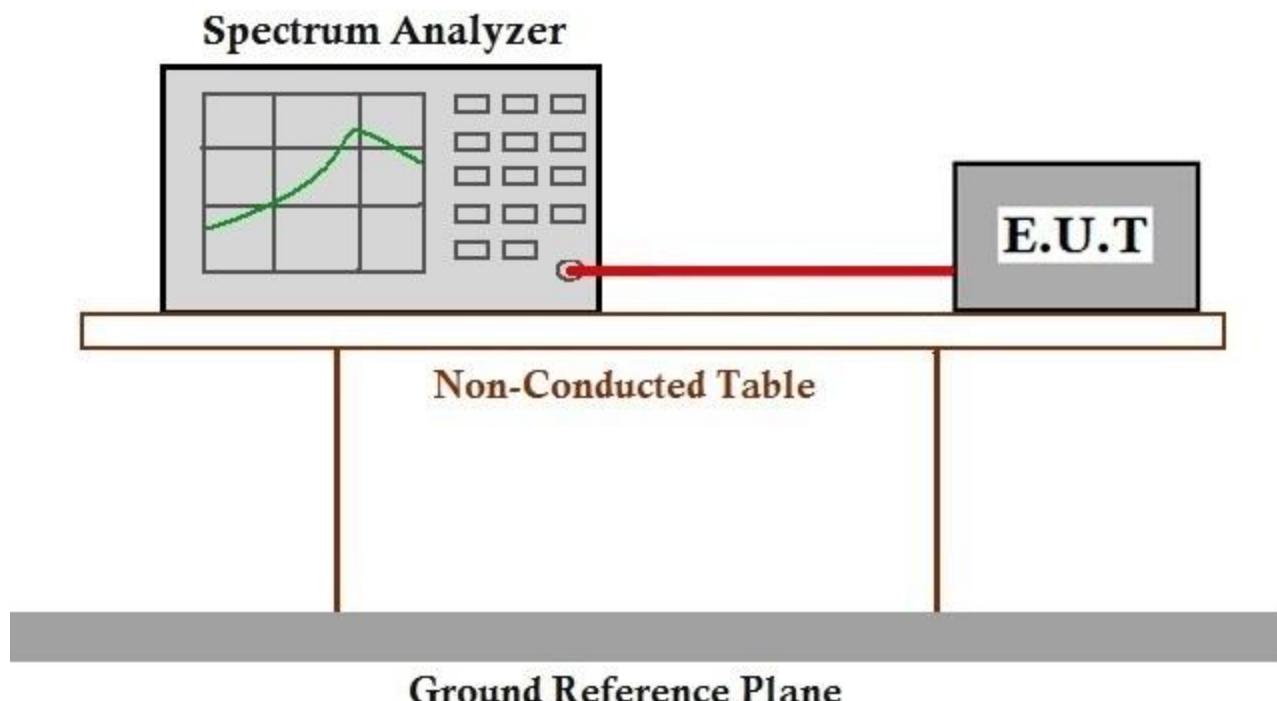
Operating Environment:

Temperature: 26.8 °C Humidity: 26.8 % RH Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

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

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

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7.4 Hopping Channel Number

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

Test Method: ANSI C63.10 (2013) Section 7.8.3

Limit:

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

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 26.8 °C Humidity: 26.8 % RH Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

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

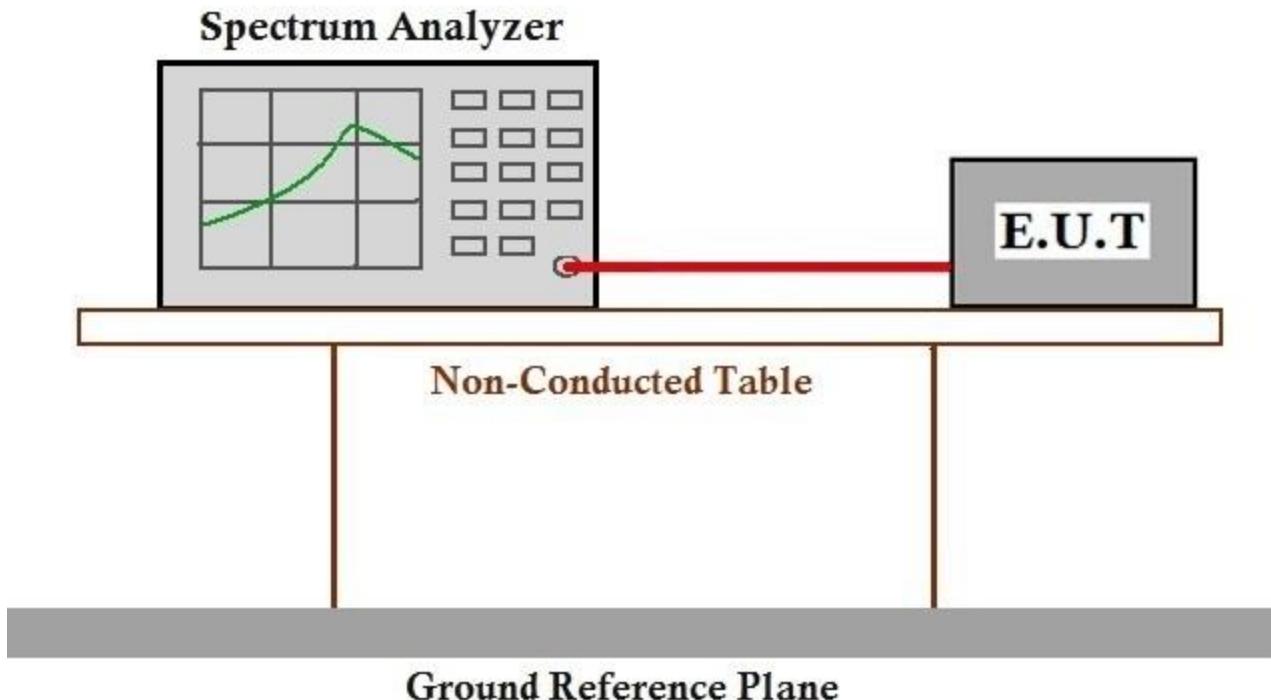
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7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

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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: 26.8 °C Humidity: 26.8 % RH Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

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

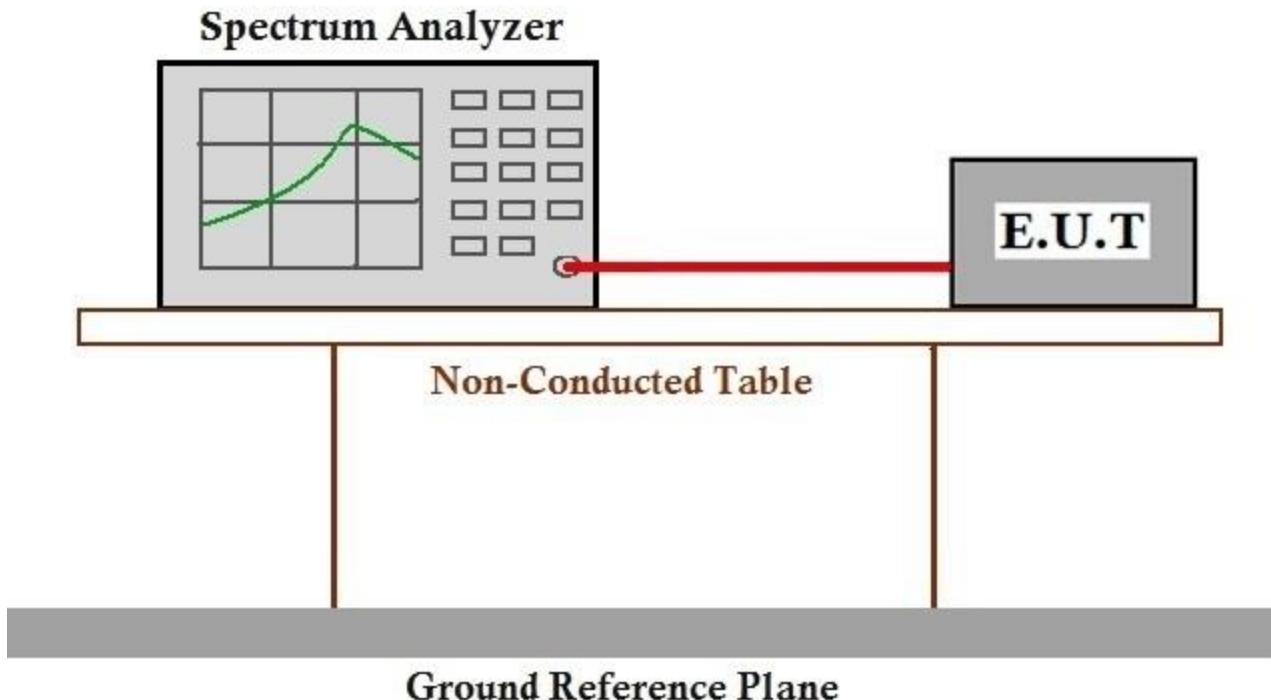


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7.5.3 Test Setup Diagram**7.5.4 Measurement Procedure and Data**

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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: 26.8 °C Humidity: 26.8 % RH Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

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



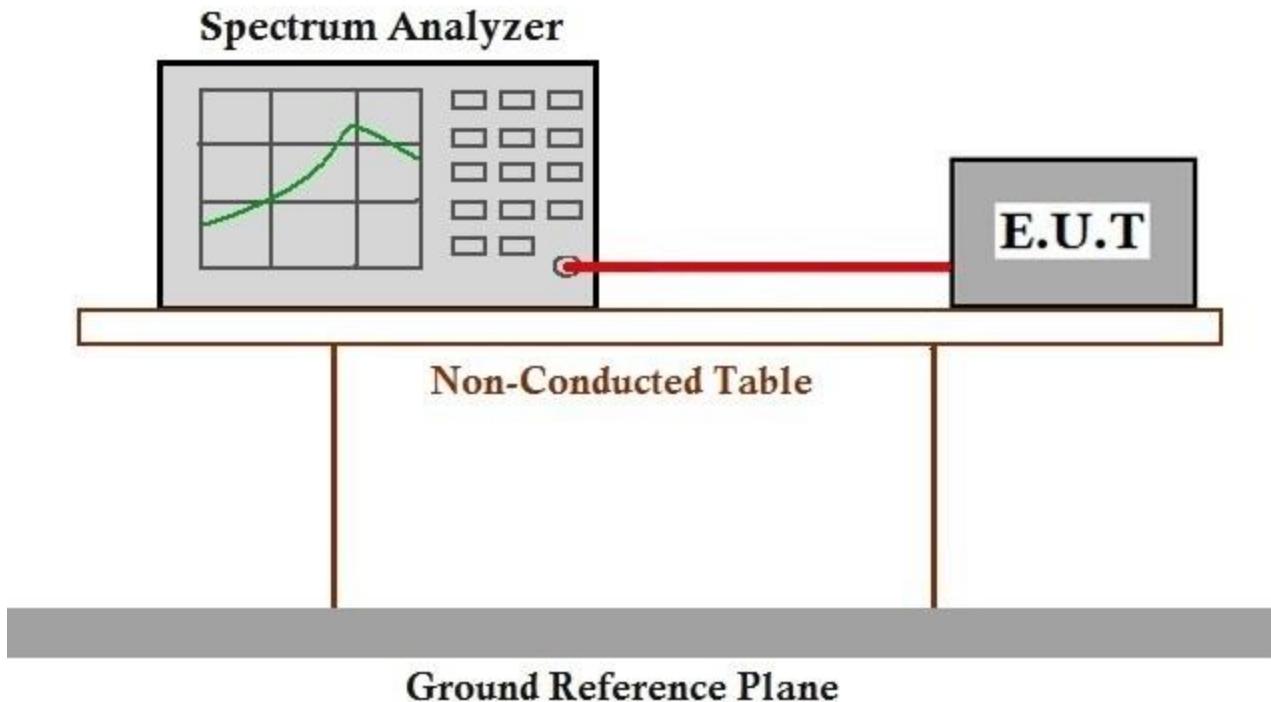
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7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer To Appendix For Details

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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: 26.8 °C Humidity: 26.8 % RH Atmospheric Pressure: 1010 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, p/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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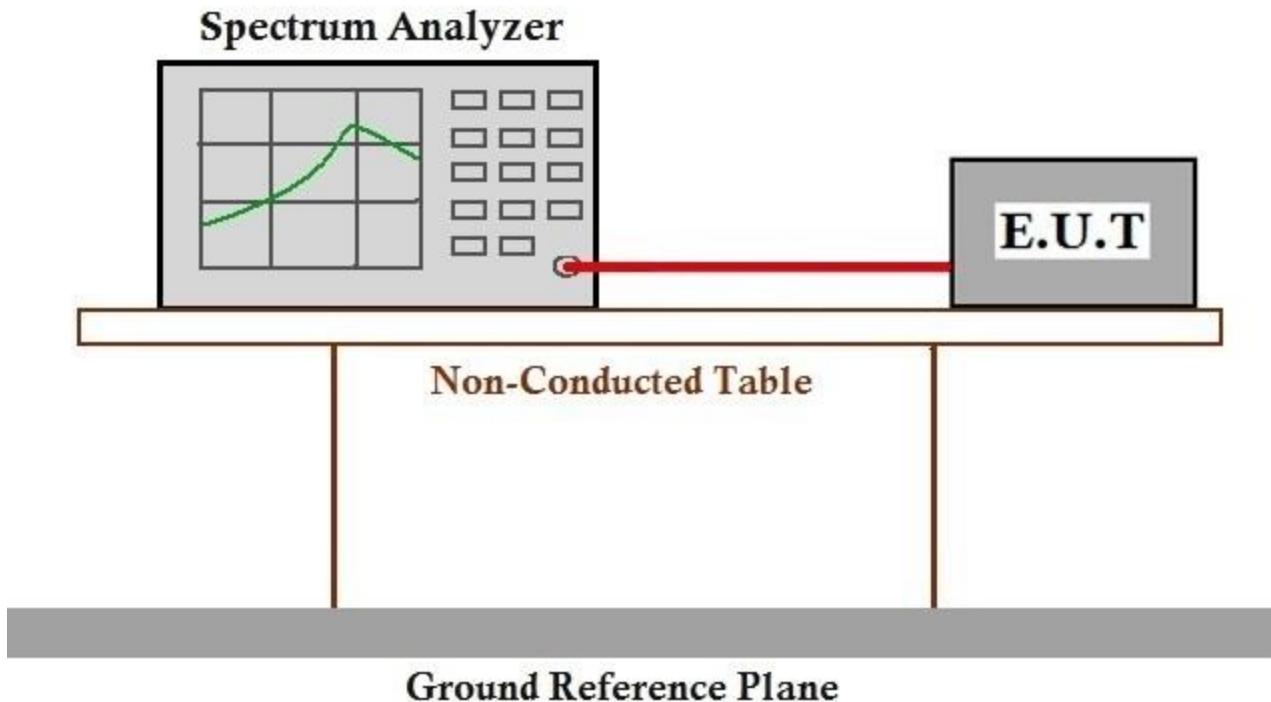
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7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer To Appendix For Details

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7.8 Radiated Emissions which fall in the restricted bands

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

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 25.1 °C Humidity: 45.3 % RH Atmospheric Pressure: 1010 mbar

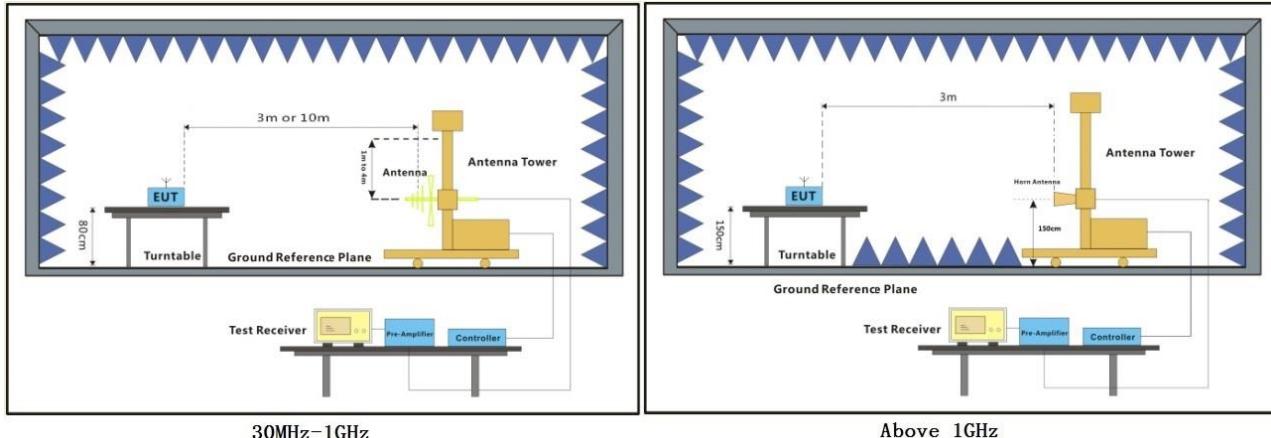
7.8.2 Test Mode Description

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



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7.8.3 Test Setup Diagram**7.8.4 Measurement Procedure and Data**

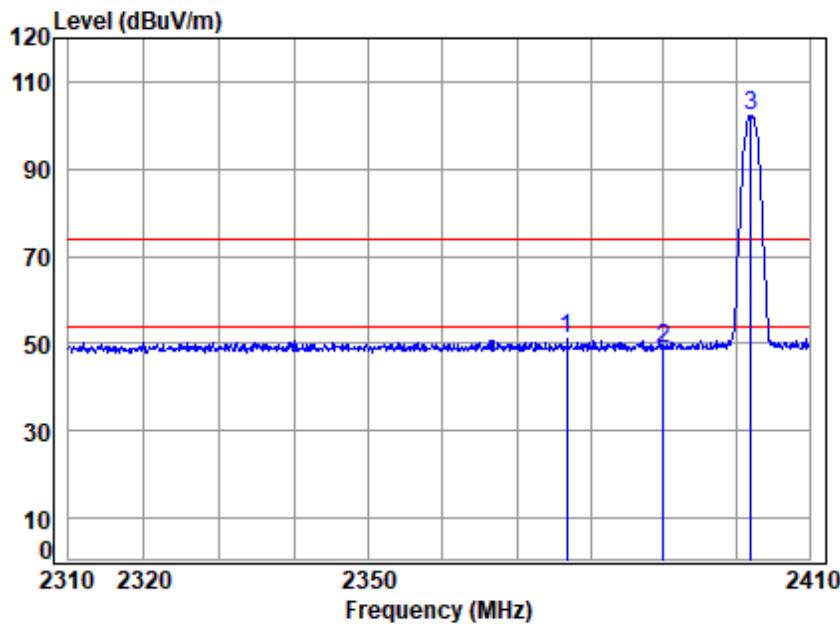
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 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.



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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 12652CR
Mode : 2402 Band edge
Note : BT

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2376.833	4.32	28.50	40.41	58.90	51.31	74.00	-22.69 peak
2 2390.000	4.34	28.52	40.42	56.23	48.67	74.00	-25.33 peak
3 * 2402.000	4.36	28.54	40.43	109.64	102.11	74.00	28.11 peak

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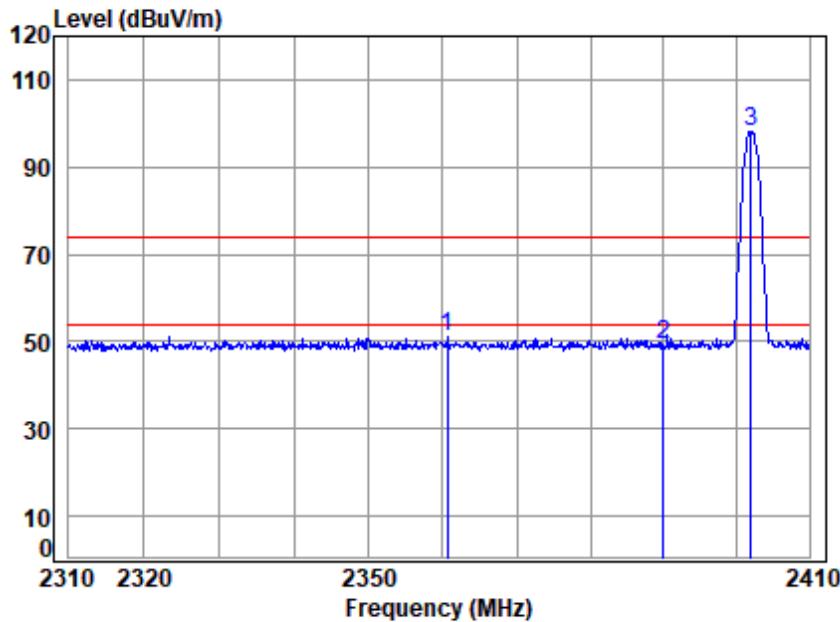
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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 12652CR
Mode : 2402 Band edge
Note : BT

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2360.571	4.30	28.47	40.40	58.85	51.22	74.00	-22.78 peak
2 2390.000	4.34	28.52	40.42	56.63	49.07	74.00	-24.93 peak
3 * 2402.000	4.36	28.54	40.43	105.55	98.02	74.00	24.02 peak

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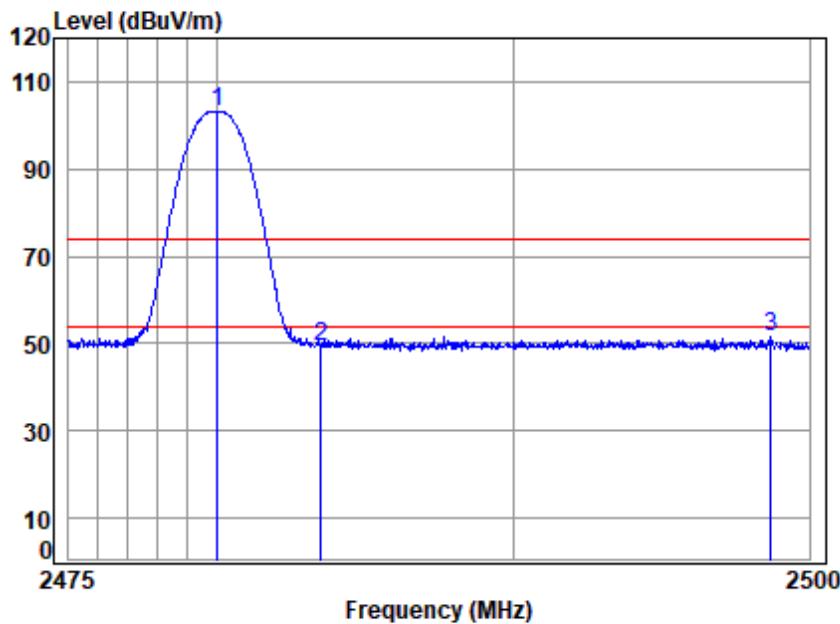
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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 12652CR
Mode : 2480 Band edge
Note : BT

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 * 2480.000	4.49	28.67	40.47	110.47	103.16	74.00	29.16 peak
2 2483.500	4.49	28.67	40.47	56.48	49.17	74.00	-24.83 peak
3 2498.694	4.52	28.70	40.47	58.94	51.69	74.00	-22.31 peak

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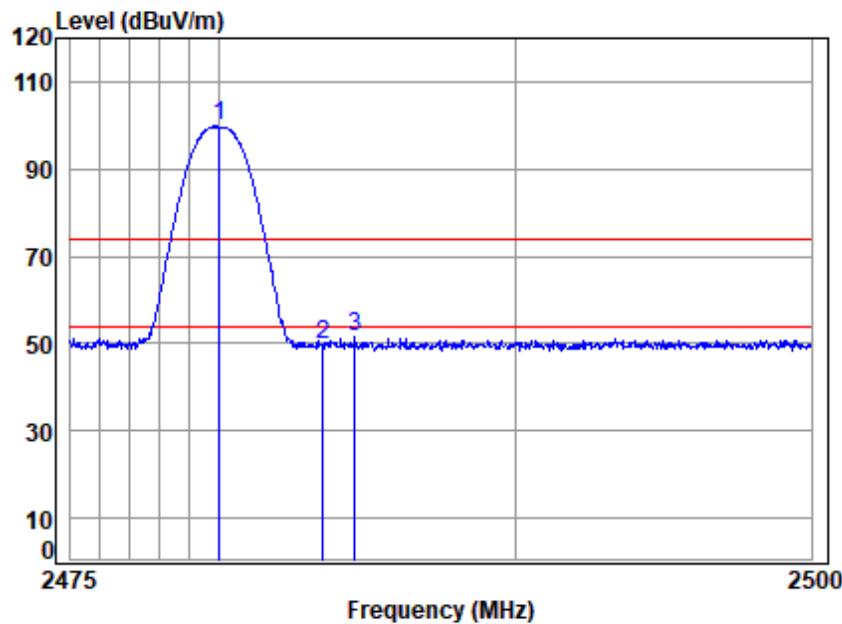
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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 12652CR
Mode : 2480 Band edge
Note : BT

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 * 2480.000	4.49	28.67	40.47	107.06	99.75	74.00	25.75 peak
2 2483.500	4.49	28.67	40.47	57.19	49.88	74.00	-24.12 peak
3 2484.570	4.50	28.68	40.47	58.87	51.58	74.00	-22.42 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.

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 25.5 °C

Humidity: 51.3 % RH

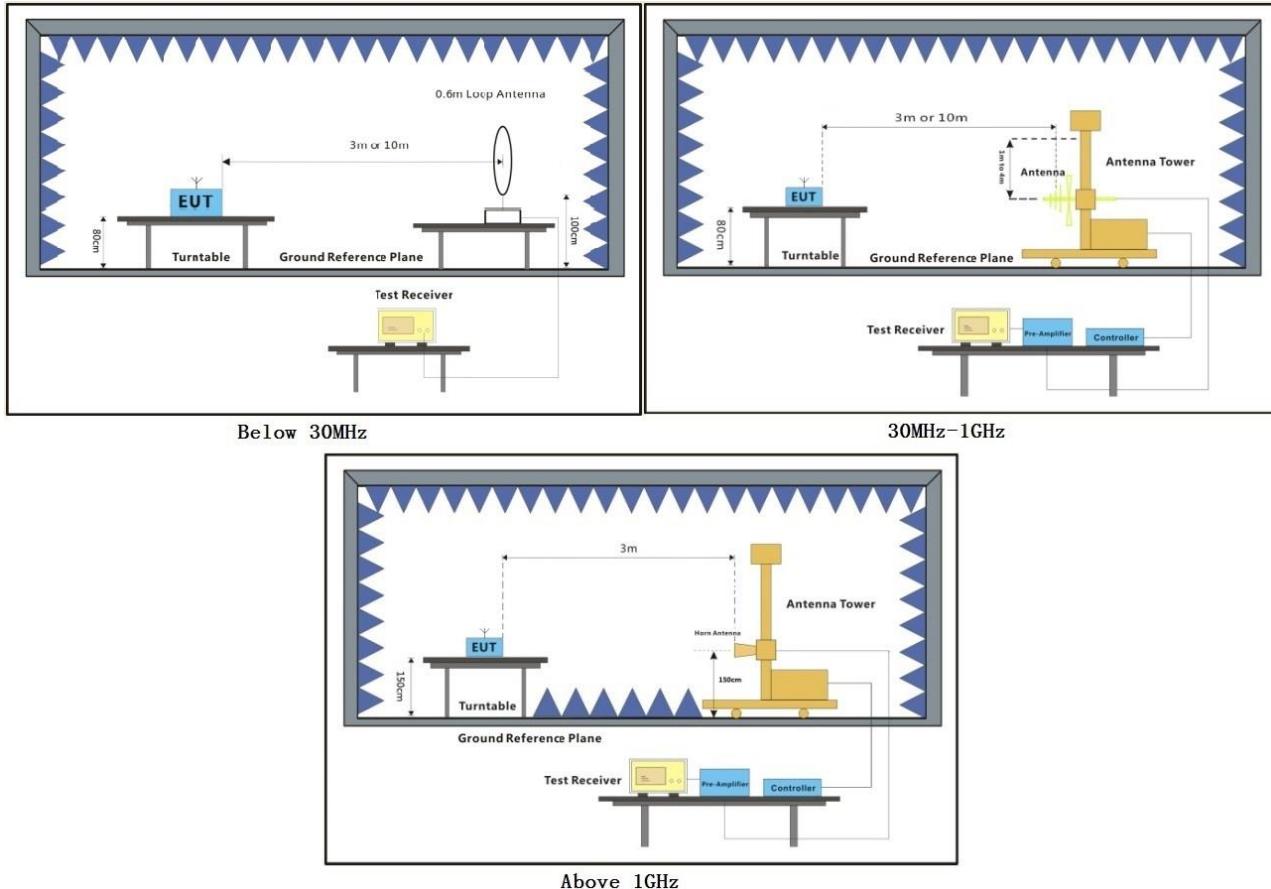
Atmospheric Pressure: 1010 mbar

7.9.2 Test Mode Description

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



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7.9.3 Test Setup Diagram

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7.9.4 Measurement Procedure and Data

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

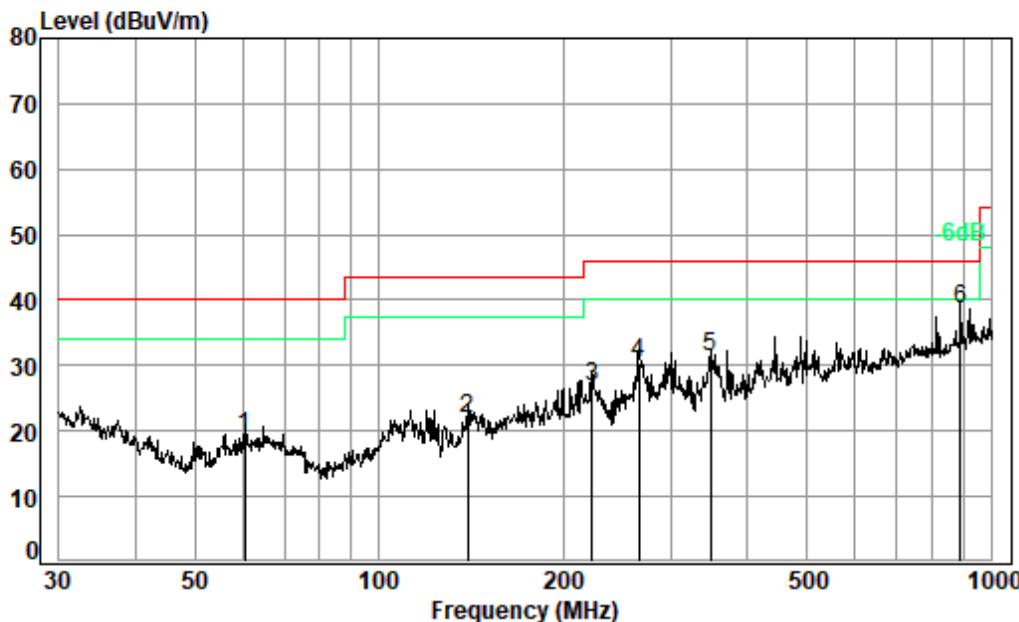
Remark:

- 1) 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.



Adapter1

Test Mode: 00; Polarity: Horizontal



Condition: 3m HORIZONTAL

Job No. : 12652CR

Test Mode: 00

: 1# adapter

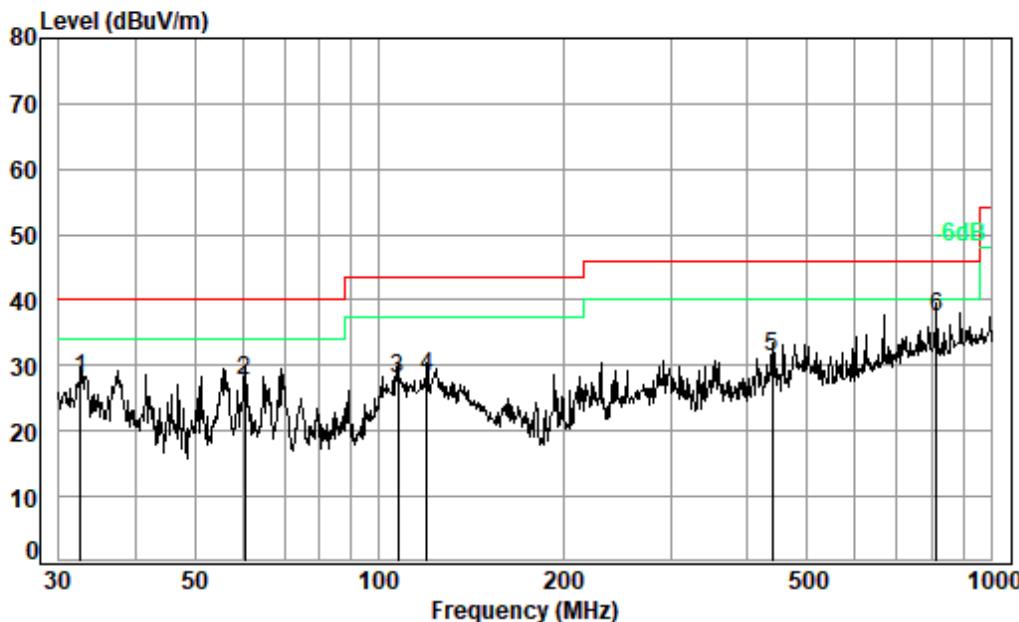
	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit

	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	60.28	0.80	12.83	27.66	33.09	19.06	40.00	-20.94 QP
2	139.85	1.15	13.39	27.38	34.79	21.95	43.50	-21.55 QP
3	222.95	1.41	16.95	27.07	35.58	26.87	46.00	-19.13 QP
4	265.68	1.76	18.39	26.95	37.24	30.44	46.00	-15.56 QP
5	348.03	2.15	20.88	27.14	35.56	31.45	46.00	-14.55 QP
6 pp	890.73	3.48	28.99	27.21	33.38	38.64	46.00	-7.36 QP

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Test Mode: 00; Polarity: Vertical



Condition: 3m VERTICAL

Job No. : 12652CR

Test Mode: 00

: 1# adapter

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit

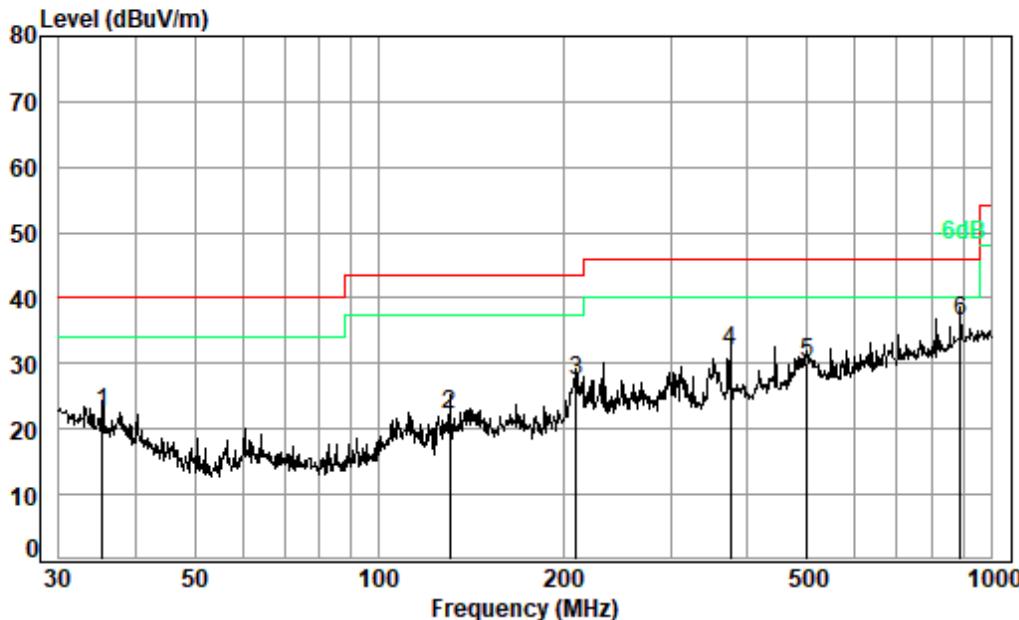
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	32.52	0.63	21.34	27.73	33.63	27.87	40.00	-12.13 QP
2	60.28	0.80	12.83	27.66	41.82	27.79	40.00	-12.21 QP
3	107.51	1.11	13.77	27.56	40.66	27.98	43.50	-15.52 QP
4	119.86	1.13	13.01	27.49	41.65	28.30	43.50	-15.20 QP
5	438.66	2.38	22.29	27.56	34.28	31.39	46.00	-14.61 QP
6 pp	815.97	3.33	27.94	27.64	33.76	37.39	46.00	-8.61 QP

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Adapter2

Test Mode: 00; Polarity: Horizontal



Condition: 3m HORIZONTAL

Job No. : 12652CR

Test Mode: 00

: 2# adapter

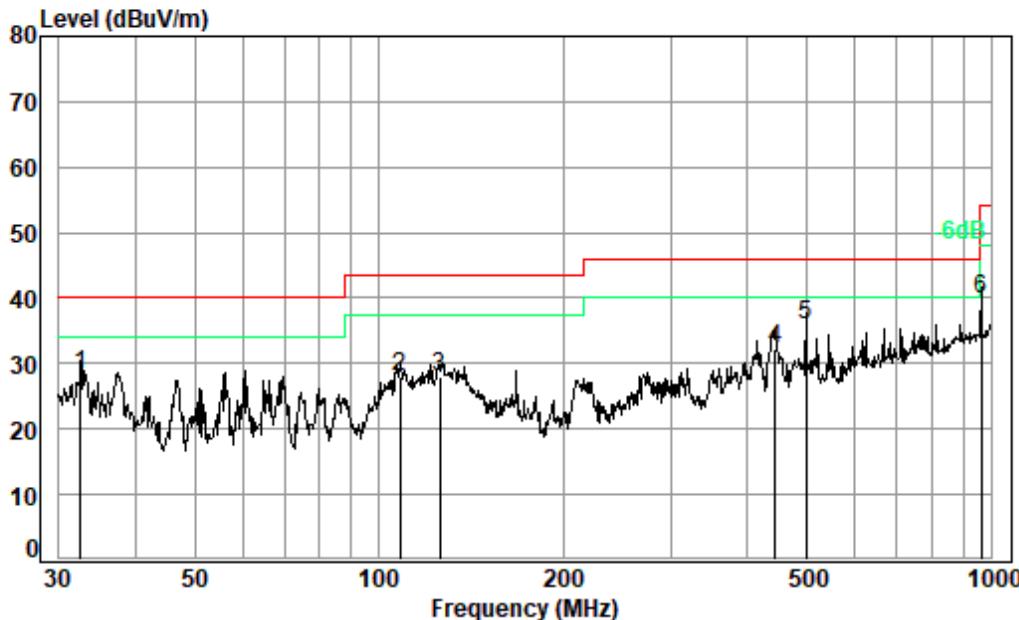
	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Over Line	Over Limit	Remark
--	---------------	-------------	------------------	---------------	----------------	--------------	---------------	--------

	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	35.38	0.66	20.07	27.72	29.46	22.47	40.00	-17.53 QP
2	130.38	1.14	12.54	27.43	36.04	22.29	43.50	-21.21 QP
3	210.05	1.30	15.31	27.11	37.81	27.31	43.50	-16.19 QP
4	374.62	2.23	22.20	27.27	34.73	31.89	46.00	-14.11 QP
5	501.18	2.50	24.12	27.80	31.18	30.00	46.00	-16.00 QP
6 pp	890.73	3.48	28.99	27.21	31.33	36.59	46.00	-9.41 QP

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Test Mode: 00; Polarity: Vertical



Condition: 3m VERTICAL

Job No. : 12652CR

Test Mode: 00

: 2# adapter

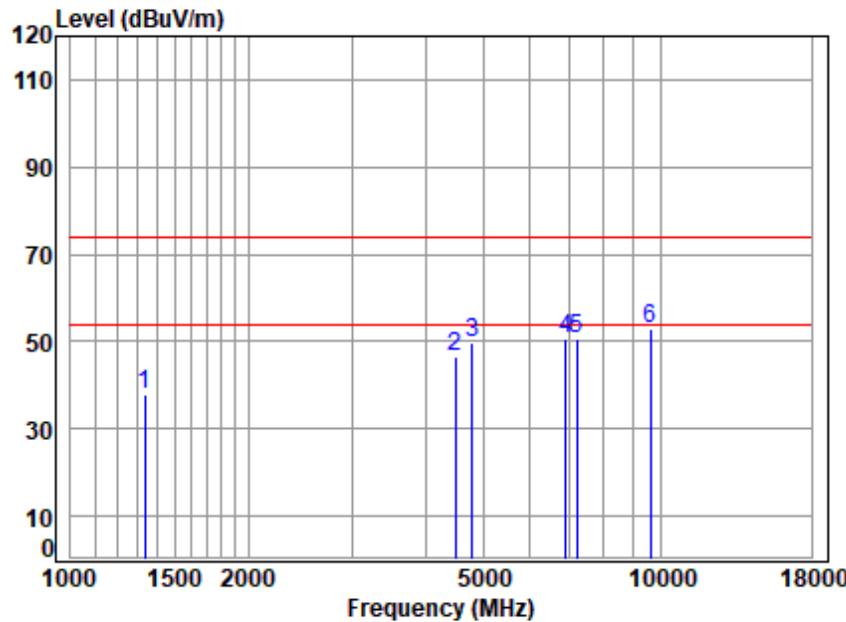
	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit

	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	32.52	0.63	21.34	27.73	34.05	28.29	40.00	-11.71 QP
2	108.27	1.11	13.75	27.56	40.75	28.05	43.50	-15.45 QP
3	125.89	1.13	12.70	27.45	41.55	27.93	43.50	-15.57 QP
4	444.85	2.40	22.54	27.59	34.96	32.31	46.00	-13.69 QP
5 pp	499.42	2.50	24.11	27.80	36.98	35.79	46.00	-10.21 QP
6	965.54	3.57	29.50	26.83	33.58	39.82	54.00	-14.18 QP

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 12652CR
Mode : 2402 TX RSE
Note : BT

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1335.141	3.00	25.17	39.85	49.74	38.06	74.00	-35.94 peak
2 4482.150	6.74	33.57	41.86	48.12	46.57	74.00	-27.43 peak
3 4804.000	7.10	33.97	42.14	50.87	49.80	74.00	-24.20 peak
4 6894.806	8.49	35.84	41.77	48.01	50.57	74.00	-23.43 peak
5 7206.000	8.74	36.07	41.50	47.16	50.47	74.00	-23.53 peak
6 9608.000	10.81	37.67	37.76	42.27	52.99	74.00	-21.01 peak

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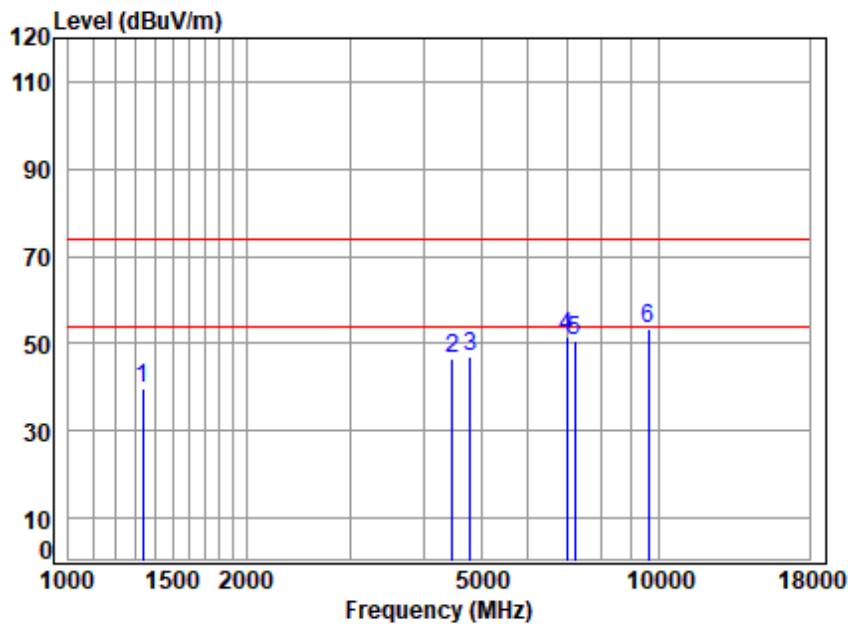
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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 12652CR
Mode : 2402 TX RSE
Note : BT

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1335.141	3.00	25.17	39.85	51.37	39.69	74.00	-34.31 peak
2 4469.214	6.73	33.55	41.85	48.32	46.75	74.00	-27.25 peak
3 4804.000	7.10	33.97	42.14	48.00	46.93	74.00	-27.07 peak
4 6995.172	8.54	35.90	41.70	48.69	51.43	74.00	-22.57 peak
5 7206.000	8.74	36.07	41.50	47.49	50.80	74.00	-23.20 peak
6 9608.000	10.81	37.67	37.76	42.48	53.20	74.00	-20.80 peak

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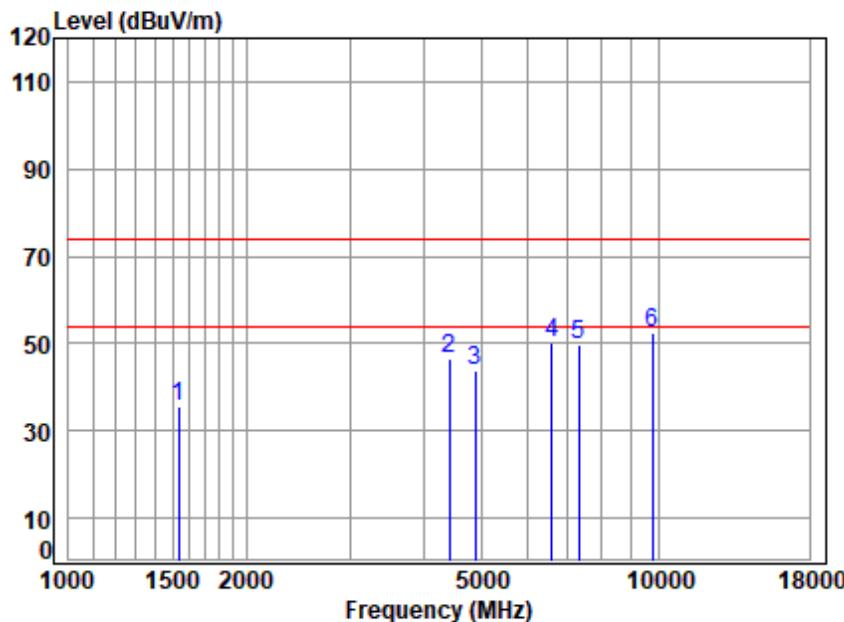
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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 12652CR
Mode : 2441 TX RSE
Note : BT

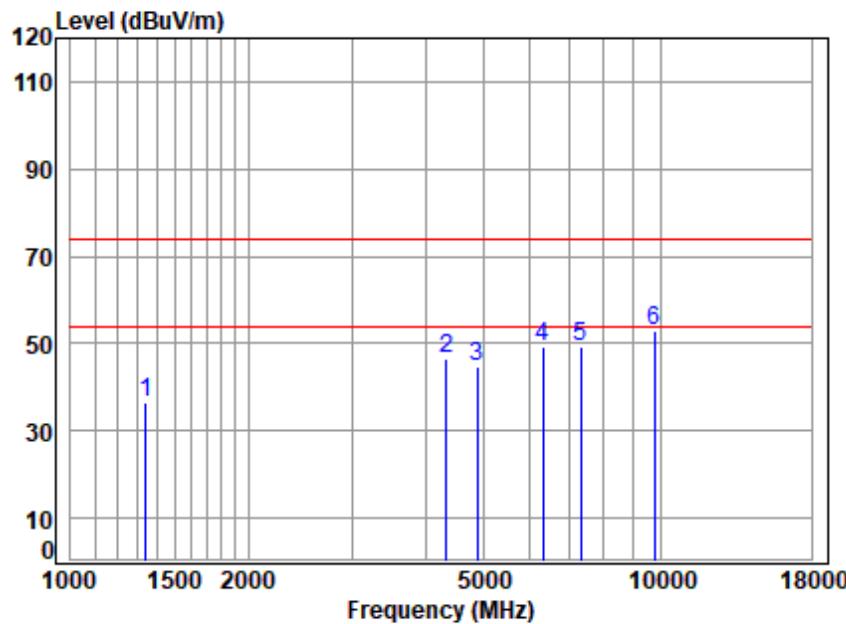
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1533.841	3.29	25.96	39.97	46.43	35.71	74.00	-38.29 peak
2 4417.841	6.68	33.46	41.80	48.10	46.44	74.00	-27.56 peak
3 4882.000	7.18	34.06	42.20	44.89	43.93	74.00	-30.07 peak
4 6583.209	8.32	35.65	41.98	48.08	50.07	74.00	-23.93 peak
5 7323.000	8.85	36.16	41.40	46.20	49.81	74.00	-24.19 peak
6 9764.000	10.76	37.76	37.50	41.56	52.58	74.00	-21.42 peak

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



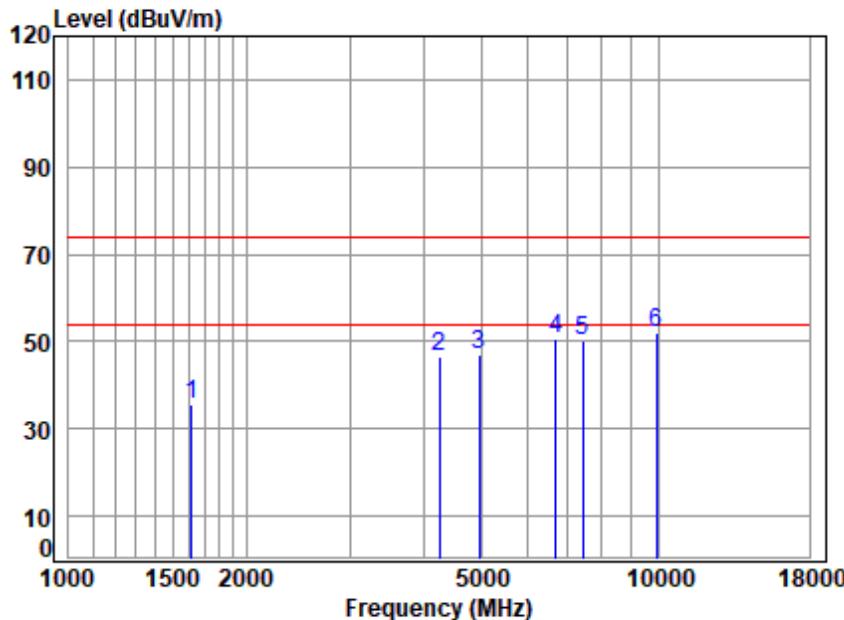
Site : chamber
Condition: 3m VERTICAL
Job No : 12652CR
Mode : 2441 TX RSE
Note : BT

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1339.006	3.01	25.18	39.85	47.97	36.31	74.00	-37.69 peak
2 4329.354	6.60	33.30	41.72	48.48	46.66	74.00	-27.34 peak
3 4882.000	7.18	34.06	42.20	45.69	44.73	74.00	-29.27 peak
4 6322.136	8.27	35.43	42.16	47.78	49.32	74.00	-24.68 peak
5 7323.000	8.85	36.16	41.40	45.72	49.33	74.00	-24.67 peak
6 9764.000	10.76	37.76	37.50	41.75	52.77	74.00	-21.23 peak

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



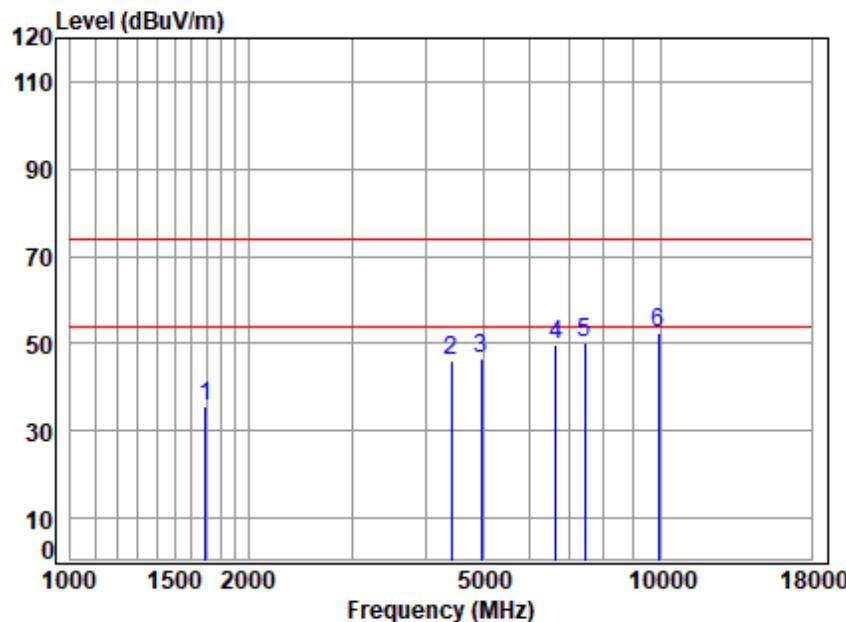
Site : chamber
Condition: 3m HORIZONTAL
Job No : 12652CR
Mode : 2480 TX RSE
Note : BT

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1615.754	3.36	26.32	40.02	46.13	35.79	74.00	-38.21 peak
2 4242.641	6.52	33.15	41.64	48.40	46.43	74.00	-27.57 peak
3 4960.000	7.26	34.15	42.27	47.67	46.81	74.00	-27.19 peak
4 6698.373	8.39	35.72	41.90	48.21	50.42	74.00	-23.58 peak
5 7440.000	8.96	36.25	41.29	46.37	50.29	74.00	-23.71 peak
6 9920.000	10.71	37.85	37.23	40.53	51.86	74.00	-22.14 peak

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



Site : chamber
Condition: 3m VERTICAL
Job No : 12652CR
Mode : 2480 TX RSE
Note : BT

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1692.231	3.42	26.64	40.06	45.56	35.56	74.00	-38.44 peak
2 4417.841	6.68	33.46	41.80	47.96	46.30	74.00	-27.70 peak
3 4960.000	7.26	34.15	42.27	47.49	46.63	74.00	-27.37 peak
4 6640.542	8.36	35.69	41.94	47.56	49.67	74.00	-24.33 peak
5 7440.000	8.96	36.25	41.29	46.12	50.04	74.00	-23.96 peak
6 9920.000	10.71	37.85	37.23	41.06	52.39	74.00	-21.61 peak

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8 Emission Test Results

8.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement: 47 CFR Part 15, Subpart C 15.207

Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Frequency of emission(MHz)	Conducted limit(dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

8.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C

Humidity: 46.1 % RH

Atmospheric Pressure: 1010 mbar

8.1.2 Test Mode Description

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

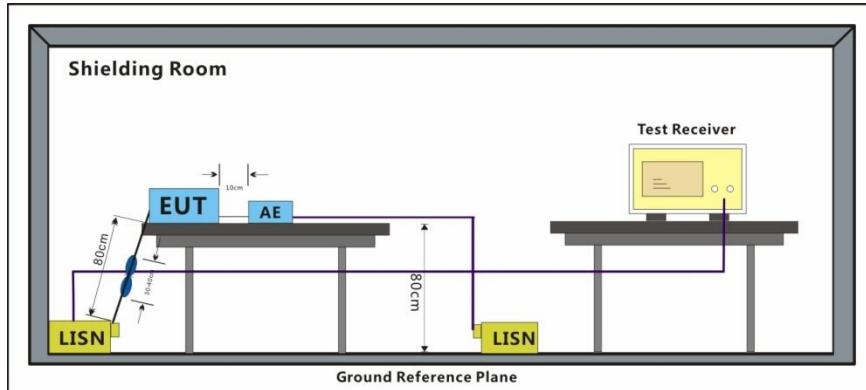
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8.1.3 Test Setup Diagram**8.1.4 Measurement Procedure and Data**

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

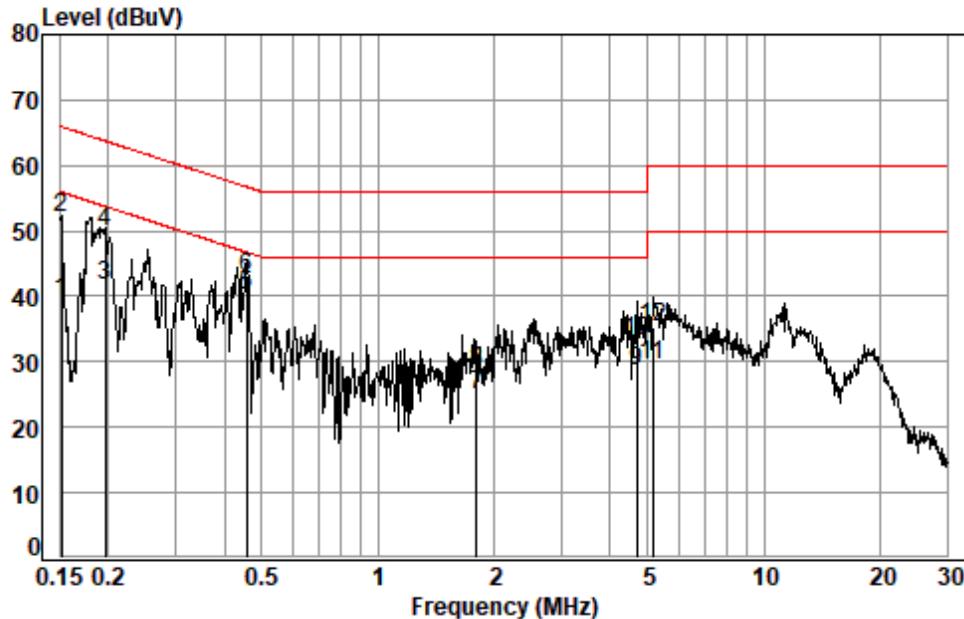
Remark: LISN=Read Level+ Cable Loss+ LISN Factor

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Adapter1

Test Mode: 00



Site : Shielding Room

Condition: Line

Job No. : 12652CR

Test mode: 00

Adapter : #1

Freq	Cable	LISN	Read	Limit		Over	Remark
	MHz	Loss	Factor	Level	Level	Line	
1	0.1516	0.03	9.70	29.55	39.28	55.91	-16.63 Average
2	0.1516	0.03	9.70	42.43	52.16	65.91	-13.75 QP
3	0.1965	0.04	9.72	31.81	41.57	53.76	-12.19 Average
4	0.1965	0.04	9.72	40.04	49.80	63.76	-13.96 QP
5	0.4564	0.07	9.77	30.35	40.19	46.76	-6.57 Average
6	0.4564	0.07	9.77	33.00	42.84	56.76	-13.92 QP
7	1.8000	0.12	9.81	14.89	24.82	46.00	-21.18 Average
8	1.8000	0.12	9.81	18.78	28.71	56.00	-27.29 QP
9	4.6964	0.16	9.92	18.63	28.71	46.00	-17.29 Average
10	4.6964	0.16	9.92	23.11	33.19	56.00	-22.81 QP
11	5.1663	0.16	9.94	19.49	29.59	50.00	-20.41 Average
12	5.1663	0.16	9.94	25.27	35.37	60.00	-24.63 QP

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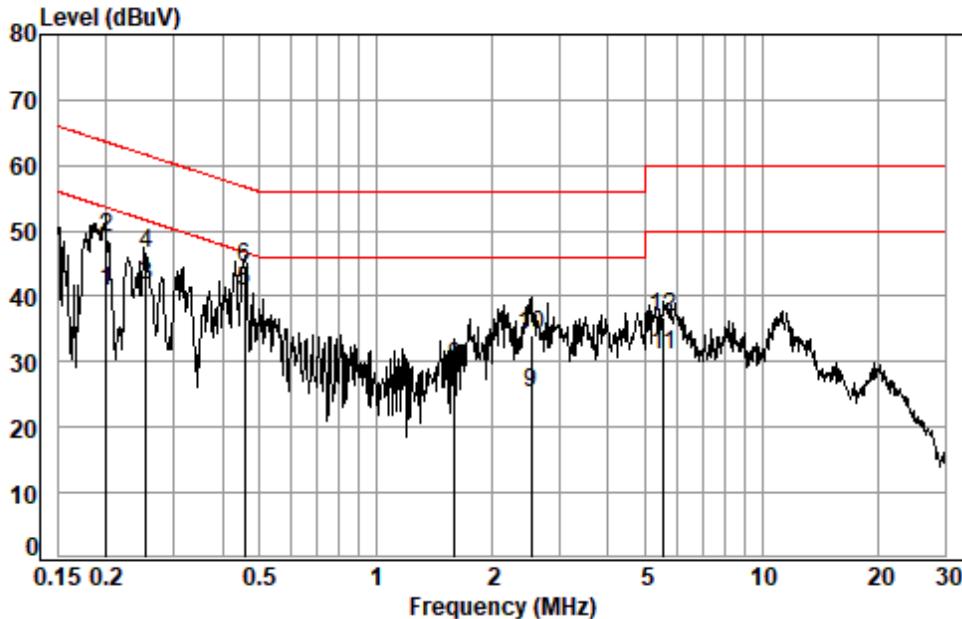
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Test Mode: 00



Site : Shielding Room

Condition: Neutral

Job No. : 12652CR

Test mode: 00

Adapter : #1

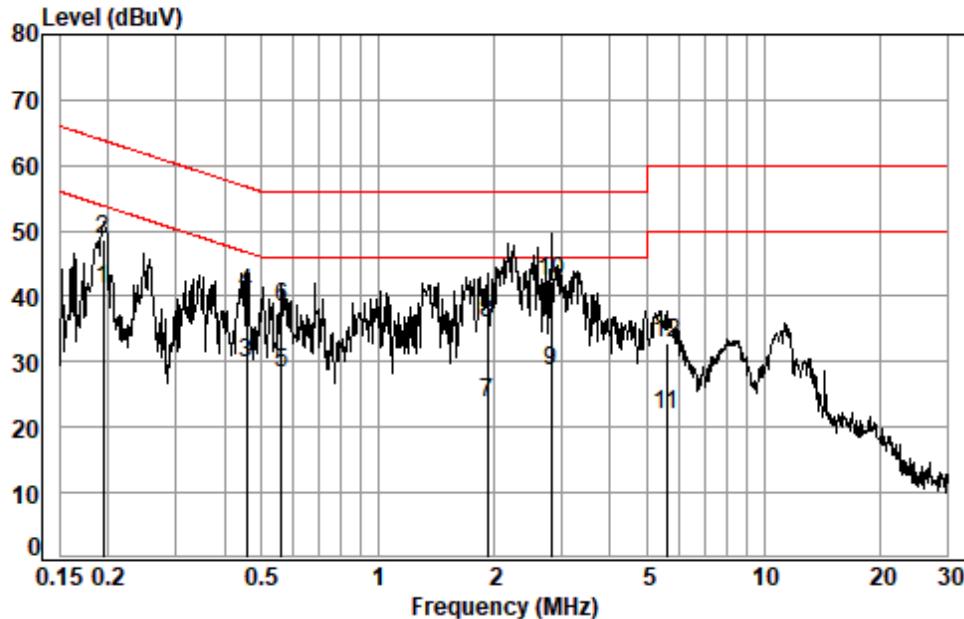
Freq	Cable	LISN	Read	Limit		Over	Remark
	MHz	Loss	Factor	Level	Level	Line	
1	0.1997	0.04	9.72	31.02	40.78	53.62	-12.84 Average
2	0.1997	0.04	9.72	39.14	48.90	63.62	-14.72 QP
3	0.2535	0.05	9.73	31.91	41.69	51.64	-9.95 Average
4	0.2535	0.05	9.73	36.90	46.68	61.64	-14.96 QP
5	0.4564	0.07	9.76	31.07	40.90	46.76	-5.86 Average
6	0.4564	0.07	9.76	34.66	44.49	56.76	-12.27 QP
7	1.6020	0.12	9.79	17.19	27.10	46.00	-18.90 Average
8	1.6020	0.12	9.79	19.18	29.09	56.00	-26.91 QP
9	2.5266	0.13	9.82	15.22	25.17	46.00	-20.83 Average
10	2.5266	0.13	9.82	24.19	34.14	56.00	-21.86 QP
11	5.5641	0.16	9.96	21.03	31.15	50.00	-18.85 Average
12	5.5641	0.16	9.96	26.61	36.73	60.00	-23.27 QP

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Adapter2

Test Mode: 00



Site : Shielding Room

Condition: Line

Job No. : 12652CR

Test mode: 00

Adapter : #2

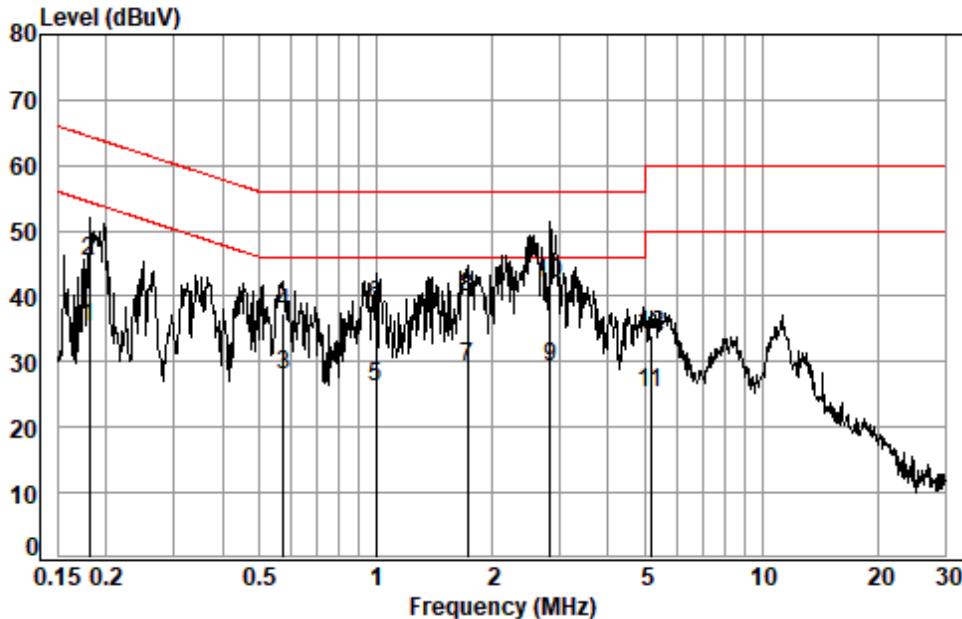
Freq	Cable	LISN	Read	Limit		Over	Remark
	Loss	Factor	Level	Level	Line	Limit	
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.1945	0.04	9.72	31.41	41.17	53.84	-12.67 Average
2	0.1945	0.04	9.72	38.92	48.68	63.84	-15.16 QP
3	0.4564	0.07	9.77	20.04	29.88	46.76	-16.88 Average
4	0.4564	0.07	9.77	30.74	40.58	56.76	-16.18 QP
5	0.5641	0.08	9.77	18.43	28.28	46.00	-17.72 Average
6	0.5641	0.08	9.77	28.40	38.25	56.00	-17.75 QP
7	1.9182	0.12	9.81	13.86	23.79	46.00	-22.21 Average
8	1.9182	0.12	9.81	26.03	35.96	56.00	-20.04 QP
9	2.8091	0.14	9.83	18.62	28.59	46.00	-17.41 Average
10	2.8091	0.14	9.83	32.32	42.29	56.00	-13.71 QP
11	5.5936	0.16	9.96	11.80	21.92	50.00	-28.08 Average
12	5.5936	0.16	9.96	22.70	32.82	60.00	-27.18 QP



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Test Mode: 00



Site : Shielding Room

Condition: Neutral

Job No. : 12652CR

Test mode: 00

Adapter : #2

Freq	Cable	LISN	Read	Limit	Over	Remark	
	Freq	Loss	Factor				
	MHz	dB	dB	dBuV	dBuV	dBuV	dB
1	0.1815	0.03	9.72	25.69	35.44	54.42	-18.98 Average
2	0.1815	0.03	9.72	35.62	45.37	64.42	-19.05 QP
3	0.5762	0.08	9.77	18.13	27.98	46.00	-18.02 Average
4	0.5762	0.08	9.77	27.67	37.52	56.00	-18.48 QP
5	0.9997	0.10	9.78	16.23	26.11	46.00	-19.89 Average
6	0.9997	0.10	9.78	28.69	38.57	56.00	-17.43 QP
7	1.7253	0.12	9.80	19.19	29.11	46.00	-16.89 Average
8	1.7253	0.12	9.80	29.85	39.77	56.00	-16.23 QP
9	2.8240	0.14	9.83	19.21	29.18	46.00	-16.82 Average
10	2.8240	0.14	9.83	32.08	42.05	56.00	-13.95 QP
11	5.1663	0.16	9.94	15.07	25.17	50.00	-24.83 Average
12	5.1663	0.16	9.94	24.01	34.11	60.00	-25.89 QP

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9 Test Setup Photo

Please refer to setup photos.

10 EUT Constructional Details (EUT Photos)

Please Refer to external and internal photos for details.



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11 Appendix

Appendix for 15.247

1. Bandwidth

1.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	20dB Bandwidth	Verdict
				Test Result (MHz)	
GFSK	2402	SISO	1	1.032	PASS
	2441	SISO	1	1.034	PASS
	2480	SISO	1	1.028	PASS
Pi/4DQPSK	2402	SISO	1	1.306	PASS
	2441	SISO	1	1.284	PASS
	2480	SISO	1	1.316	PASS
8DPSK	2402	SISO	1	1.313	PASS
	2441	SISO	1	1.293	PASS
	2480	SISO	1	1.296	PASS

Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
GFSK	2402	SISO	1	0.912	Only for Report Use
	2441	SISO	1	0.887	Only for Report Use
	2480	SISO	1	0.896	Only for Report Use
Pi/4DQPSK	2402	SISO	1	1.170	Only for Report Use
	2441	SISO	1	1.170	Only for Report Use
	2480	SISO	1	1.171	Only for Report Use
8DPSK	2402	SISO	1	1.189	Only for Report Use
	2441	SISO	1	1.170	Only for Report Use
	2480	SISO	1	1.177	Only for Report Use

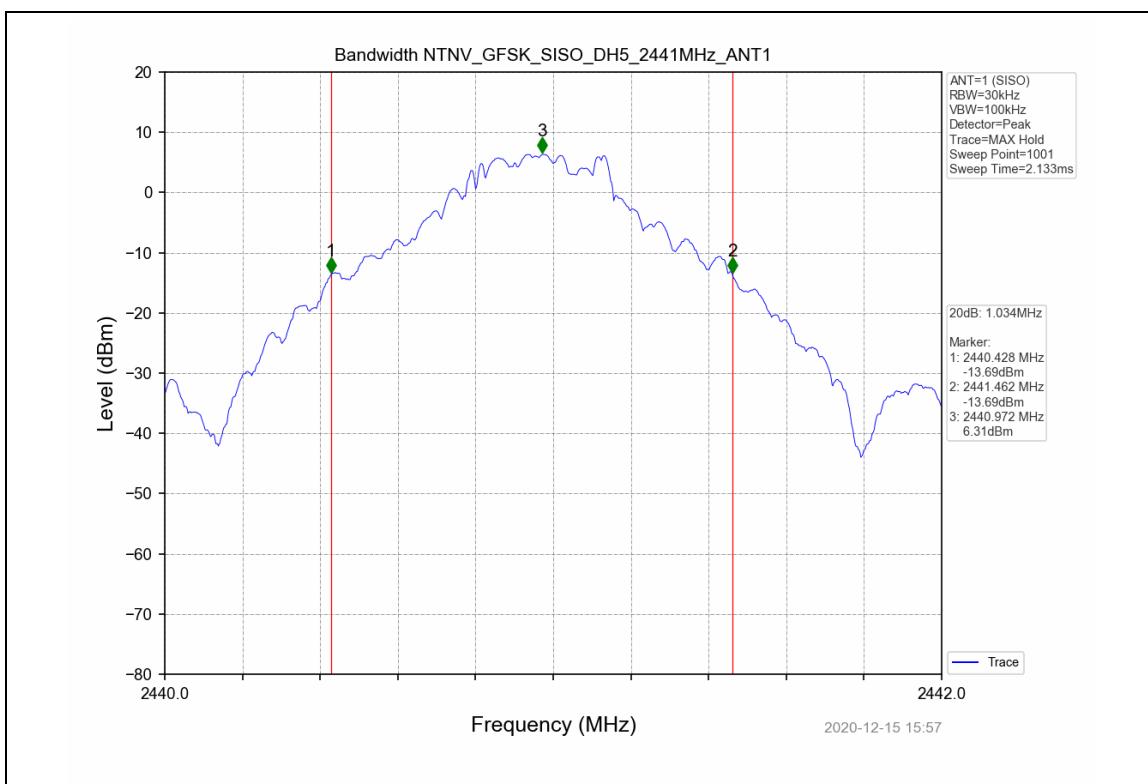
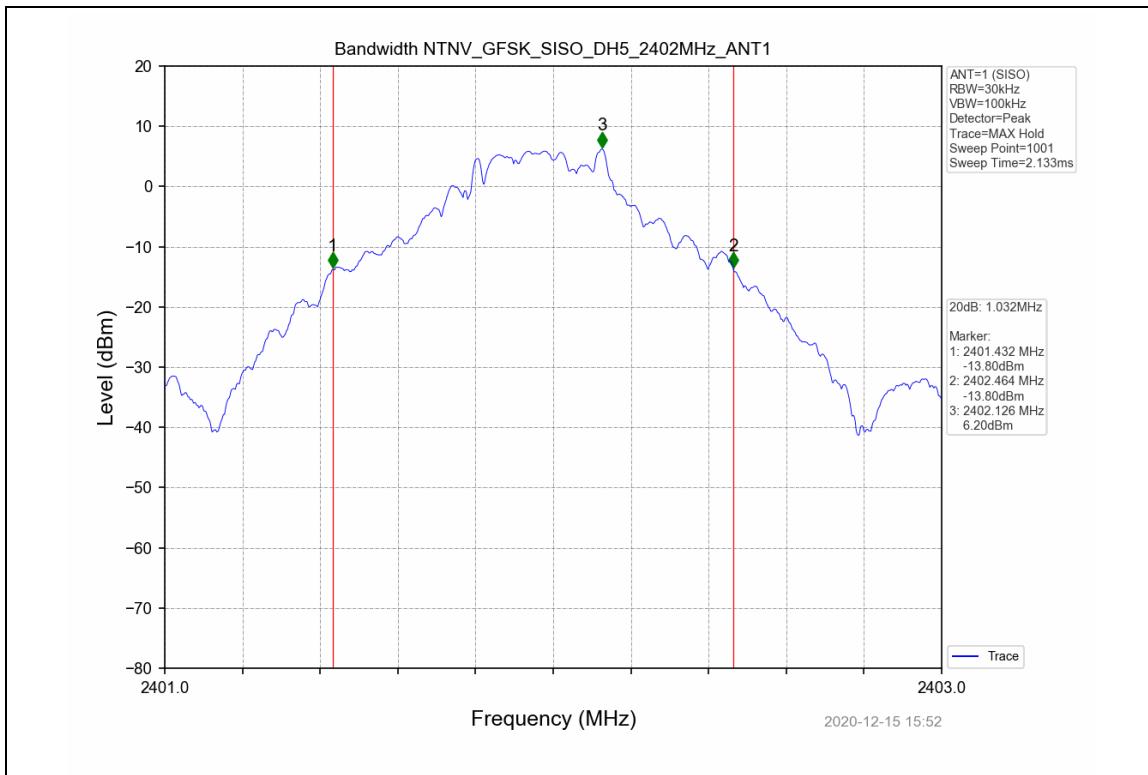
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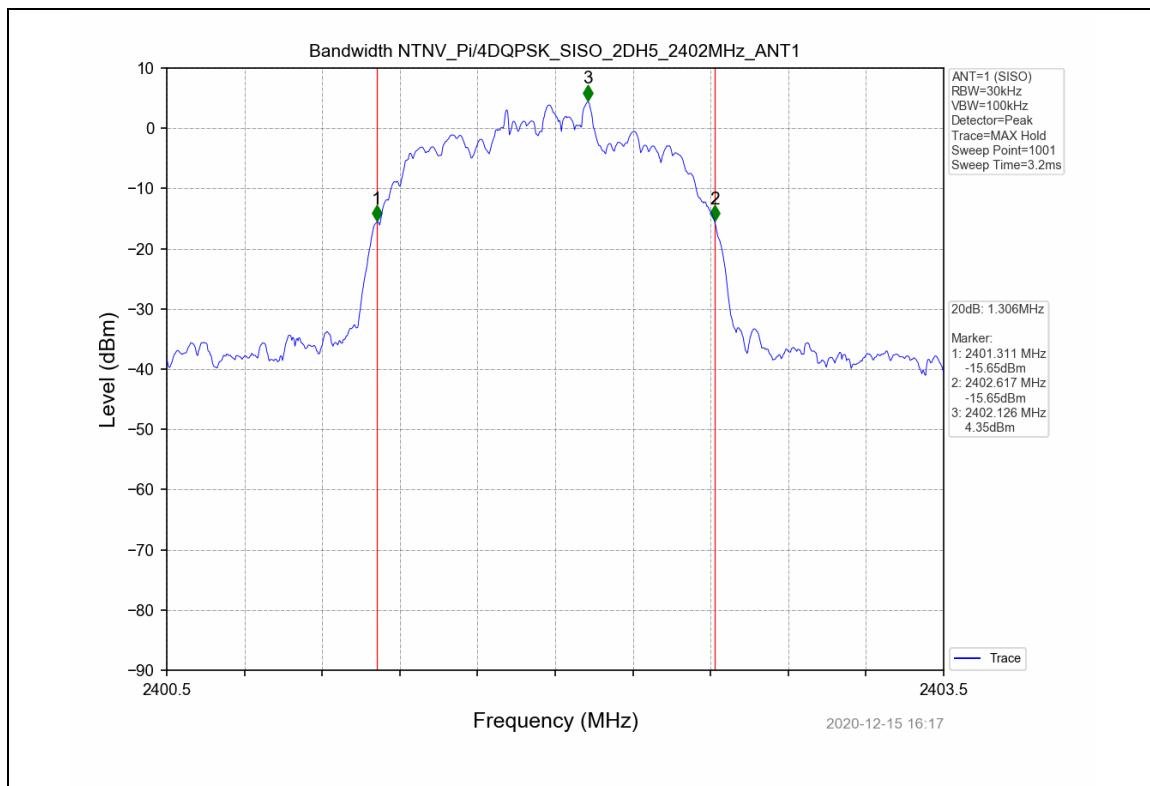
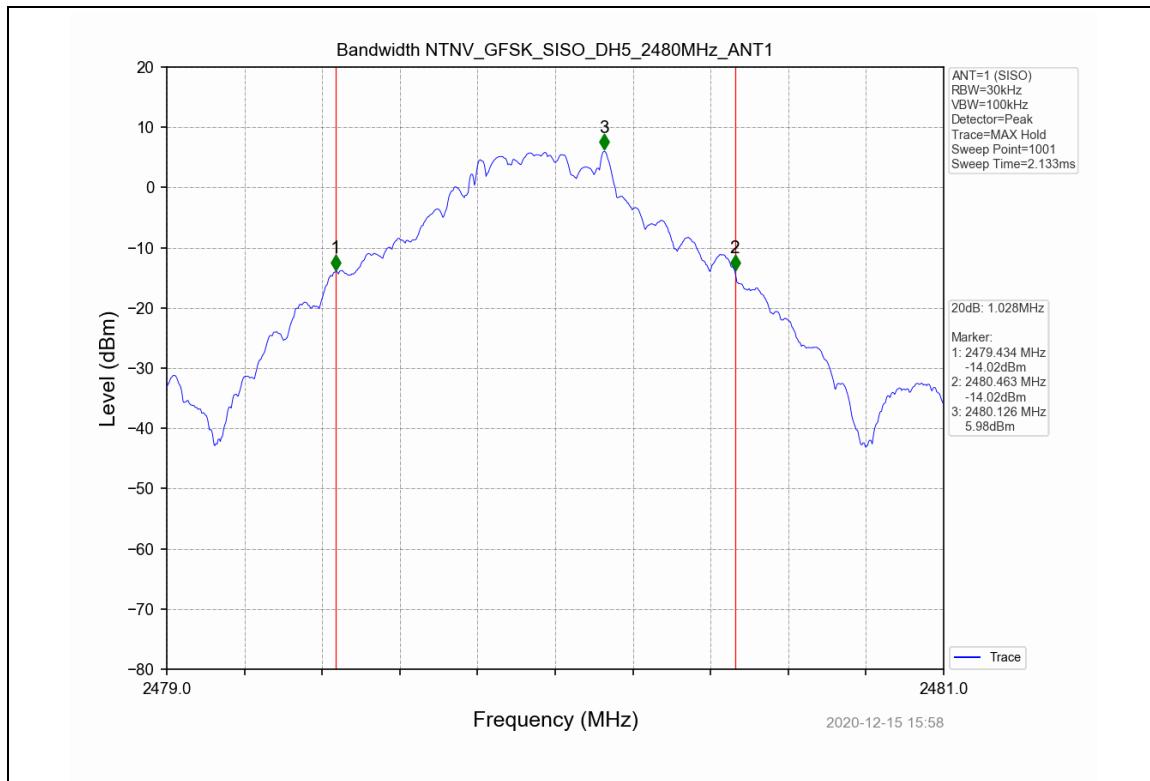
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1.2 Test Graph - 20dB Bandwidth

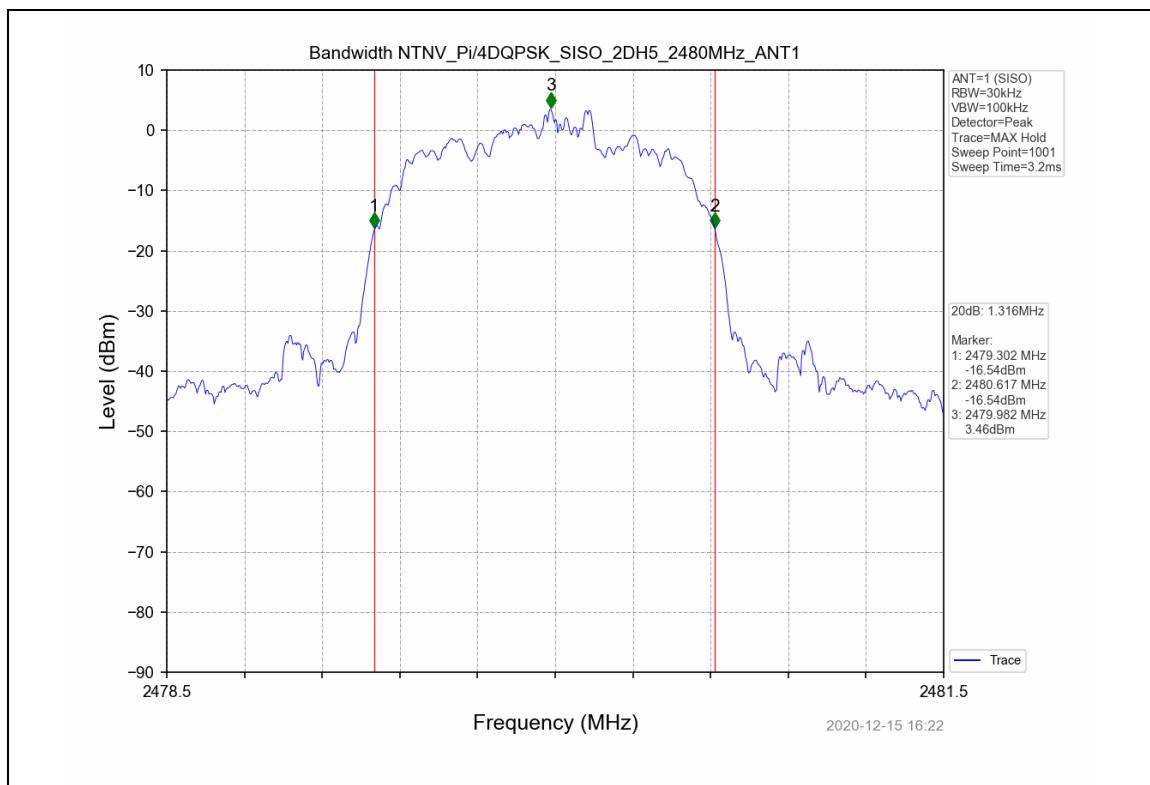
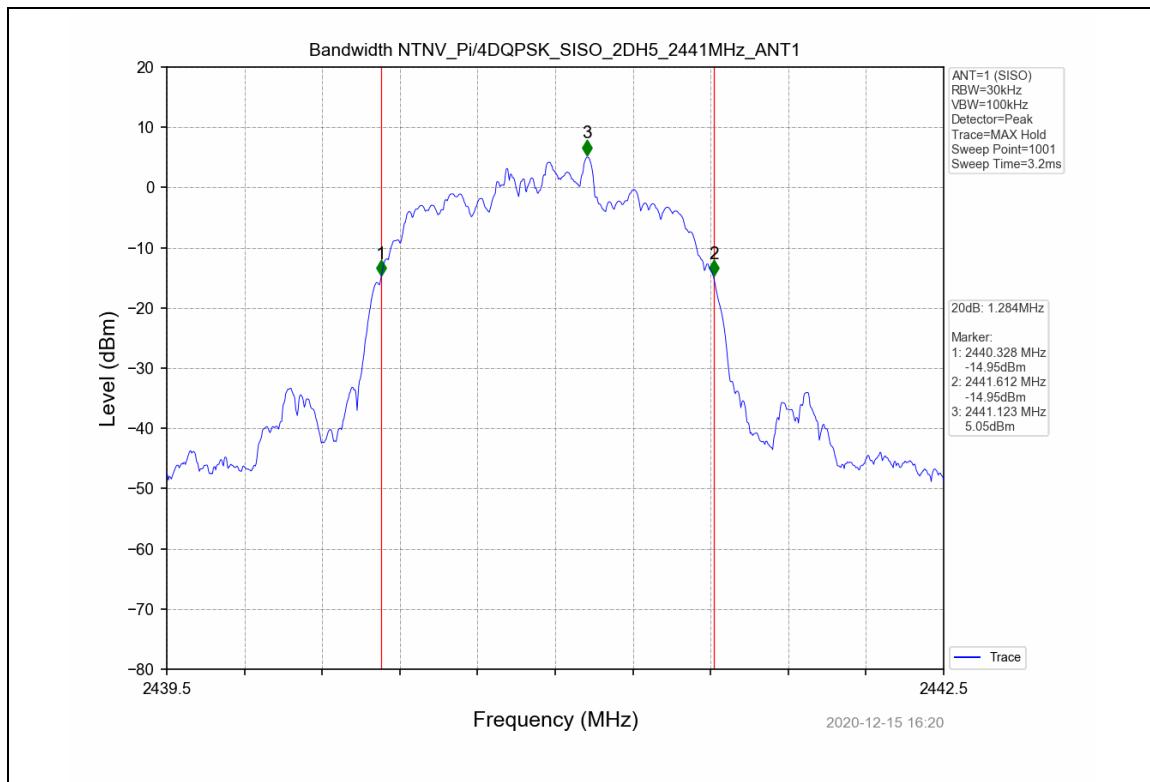
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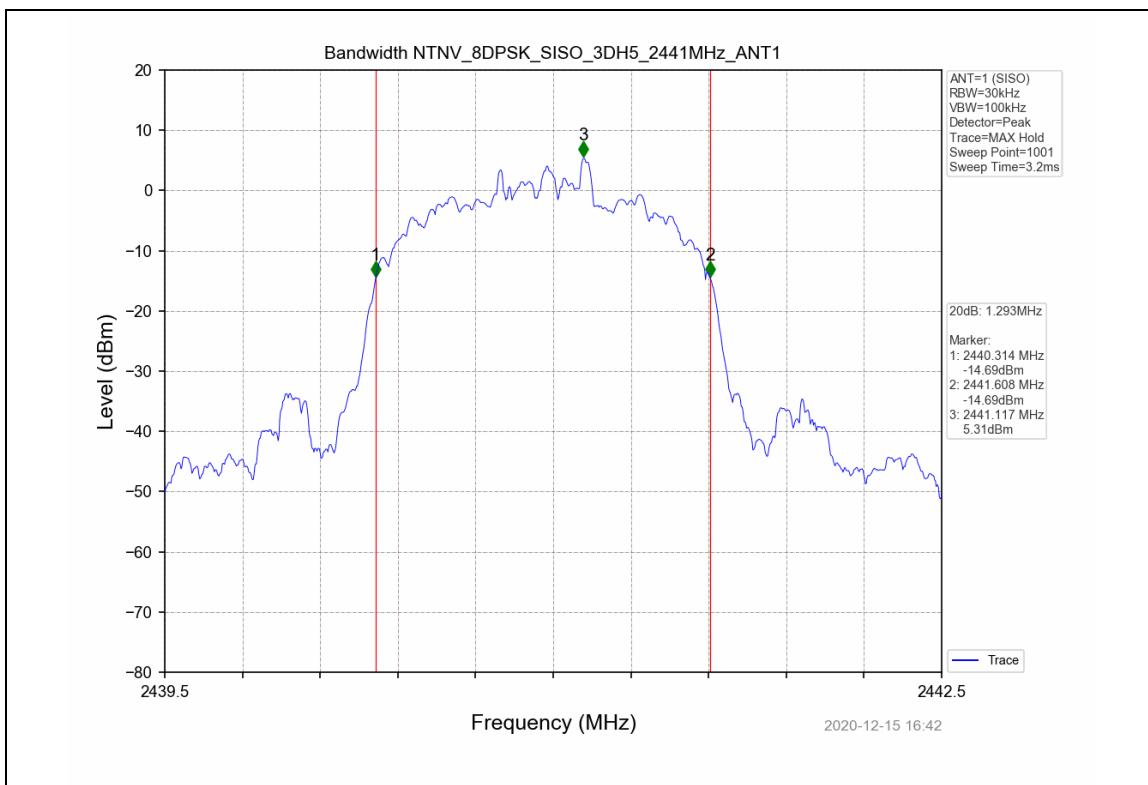
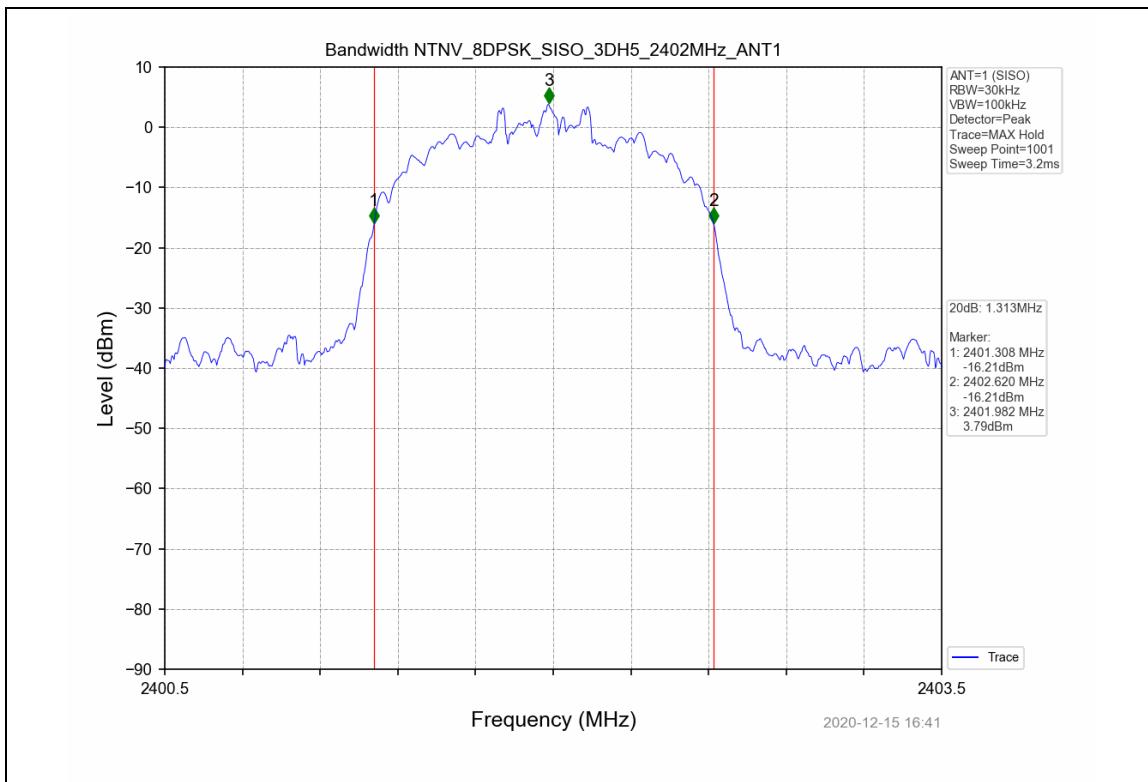
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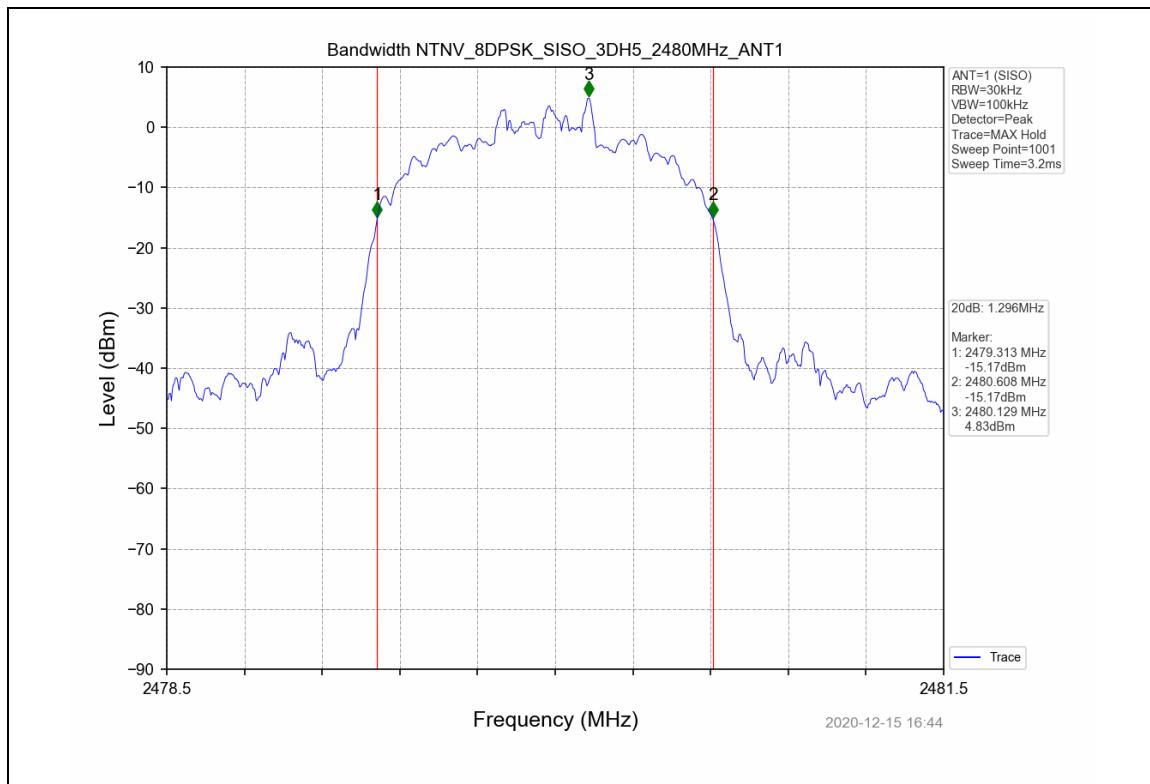
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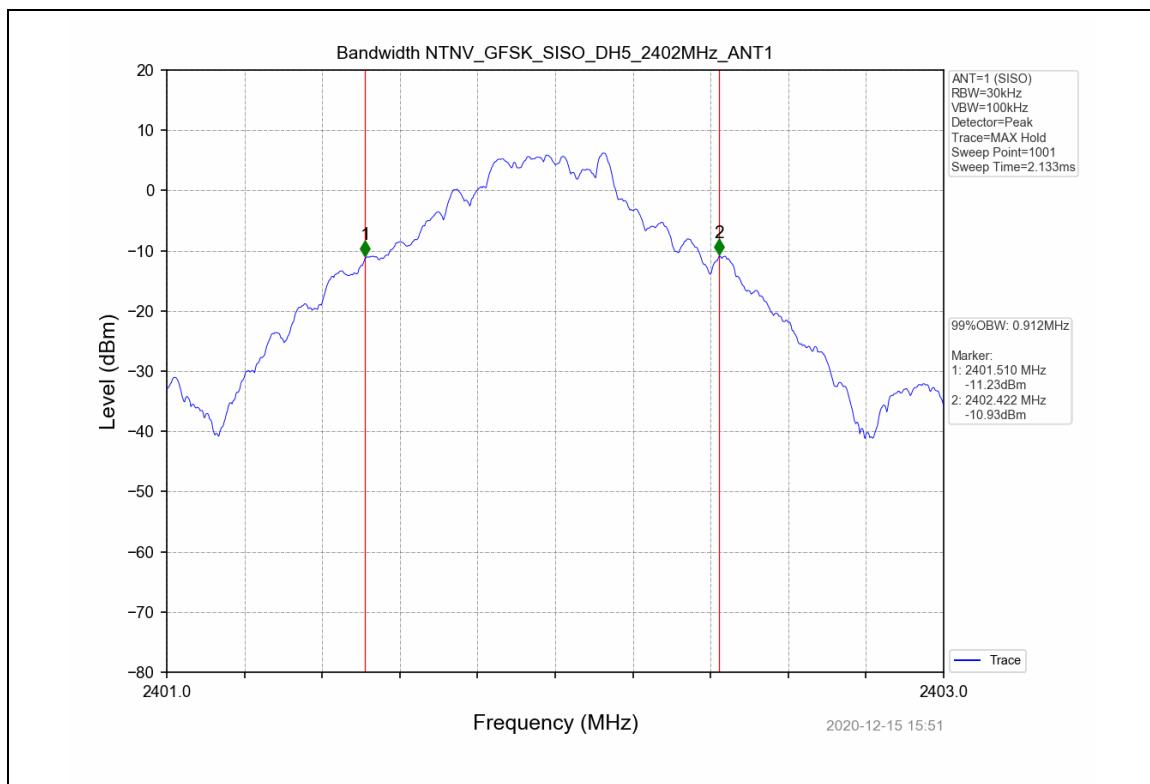


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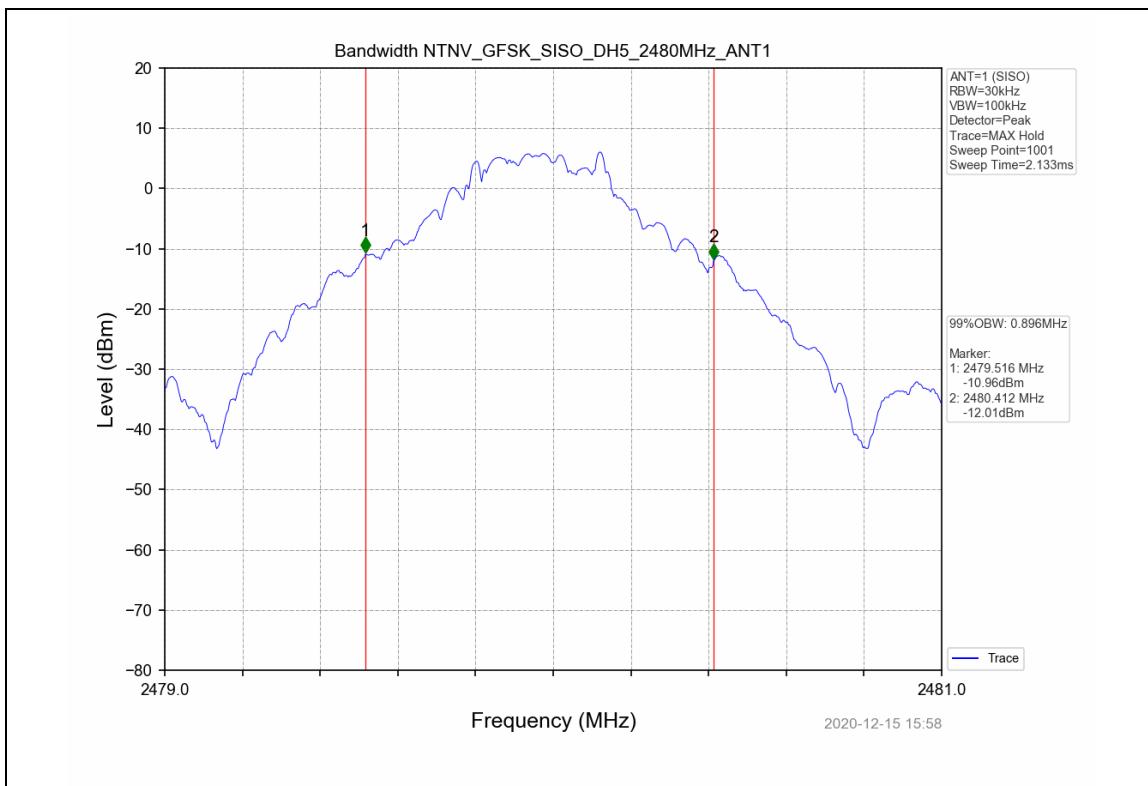
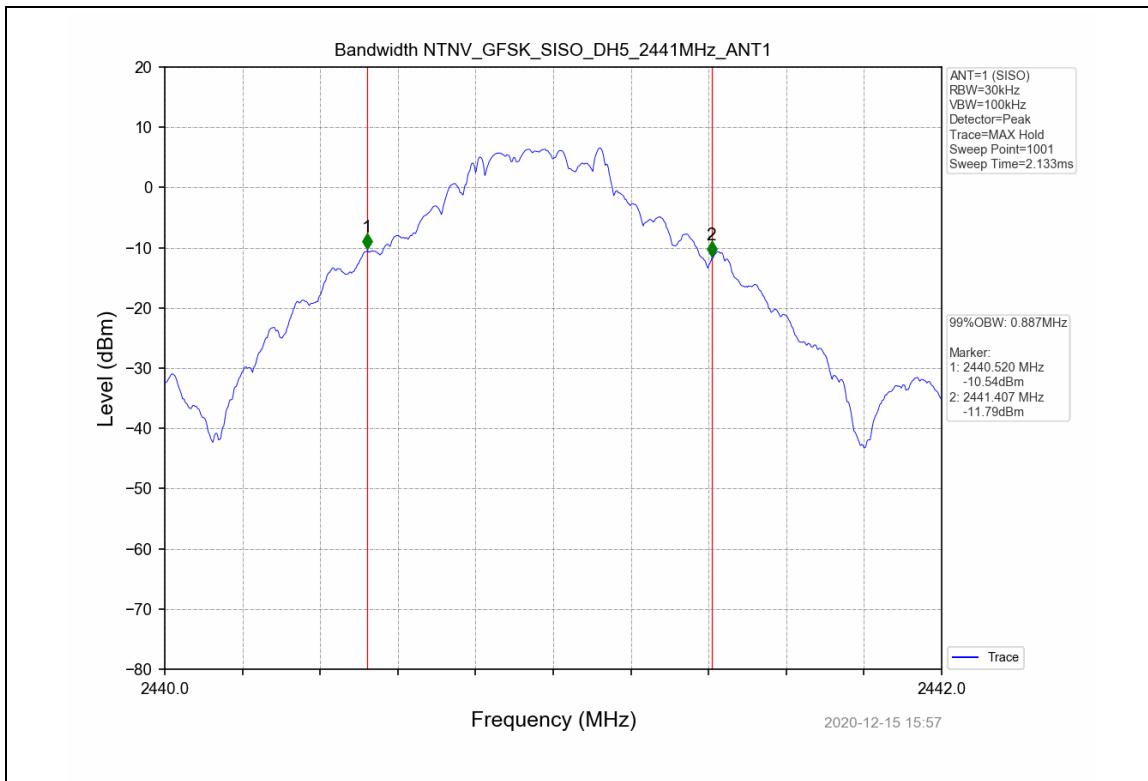


1.3 Test Graph - 99% Occupied Bandwidth



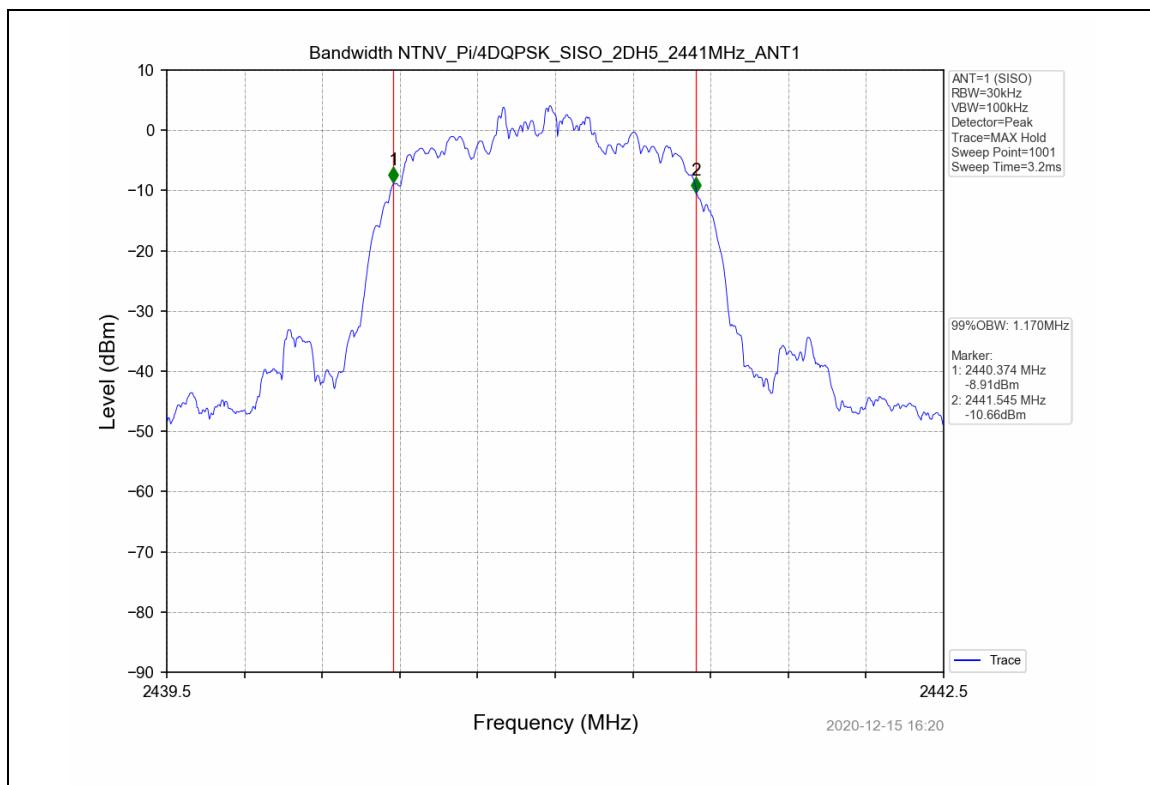
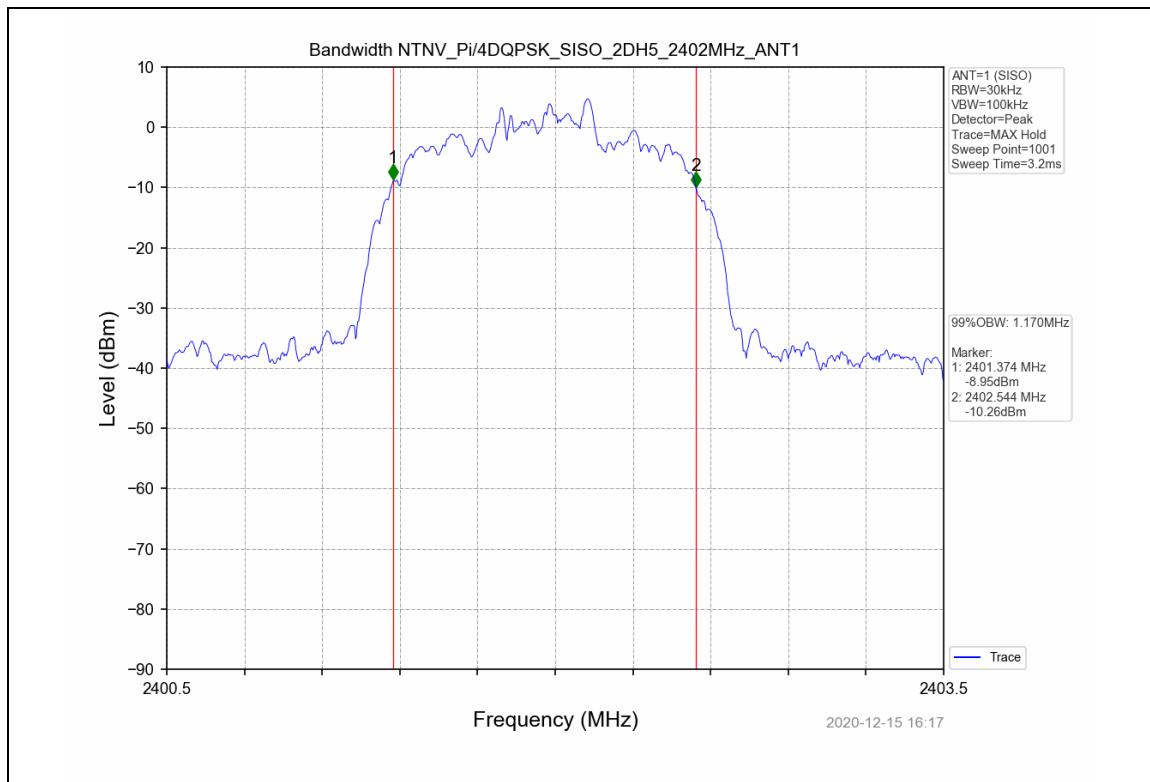
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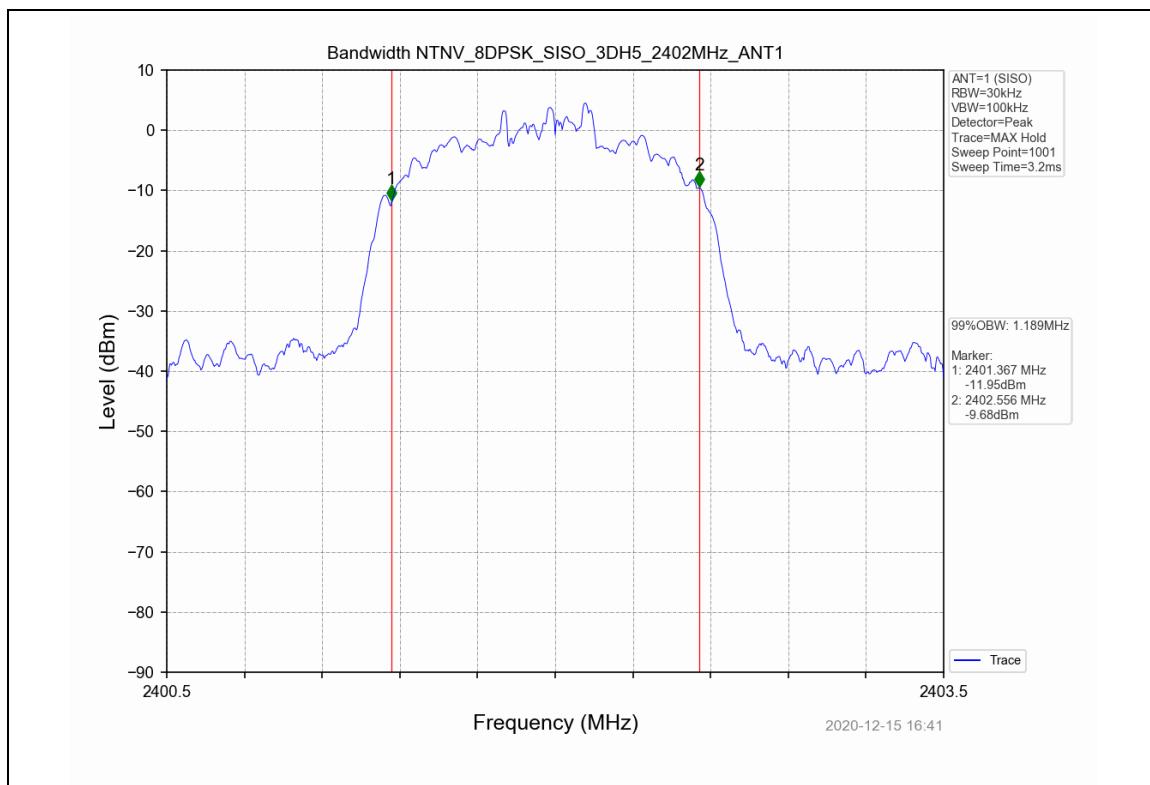
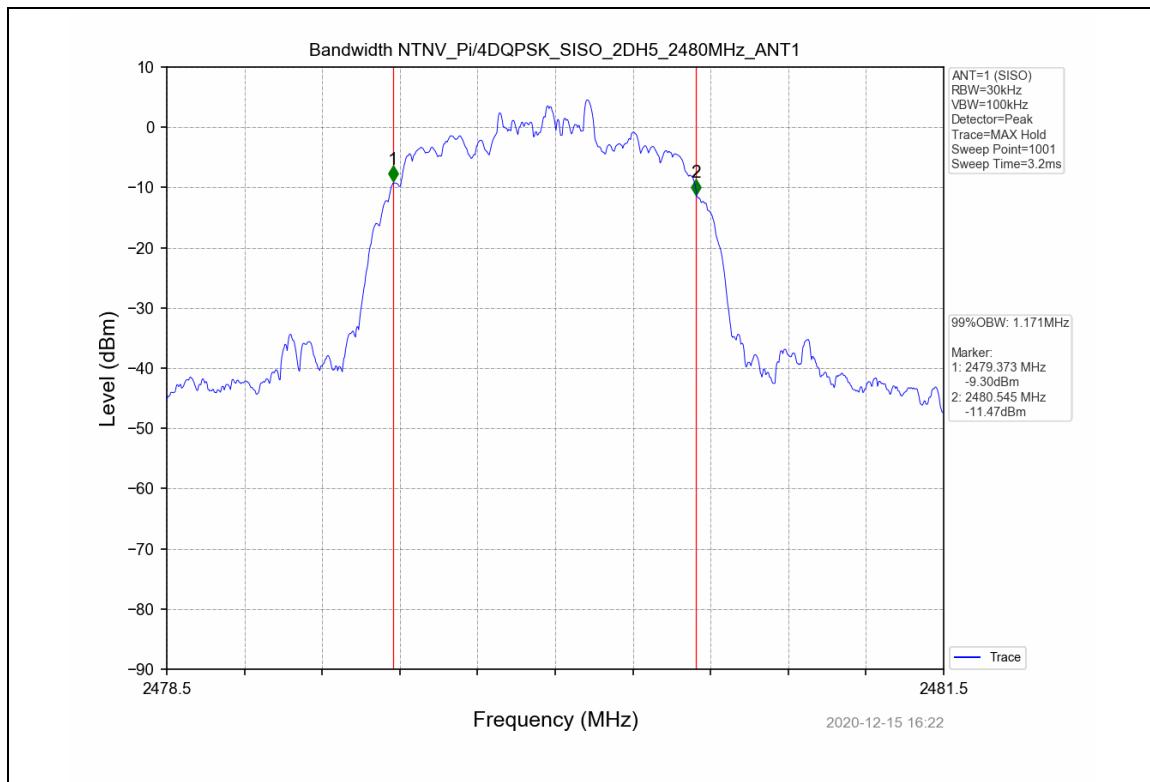
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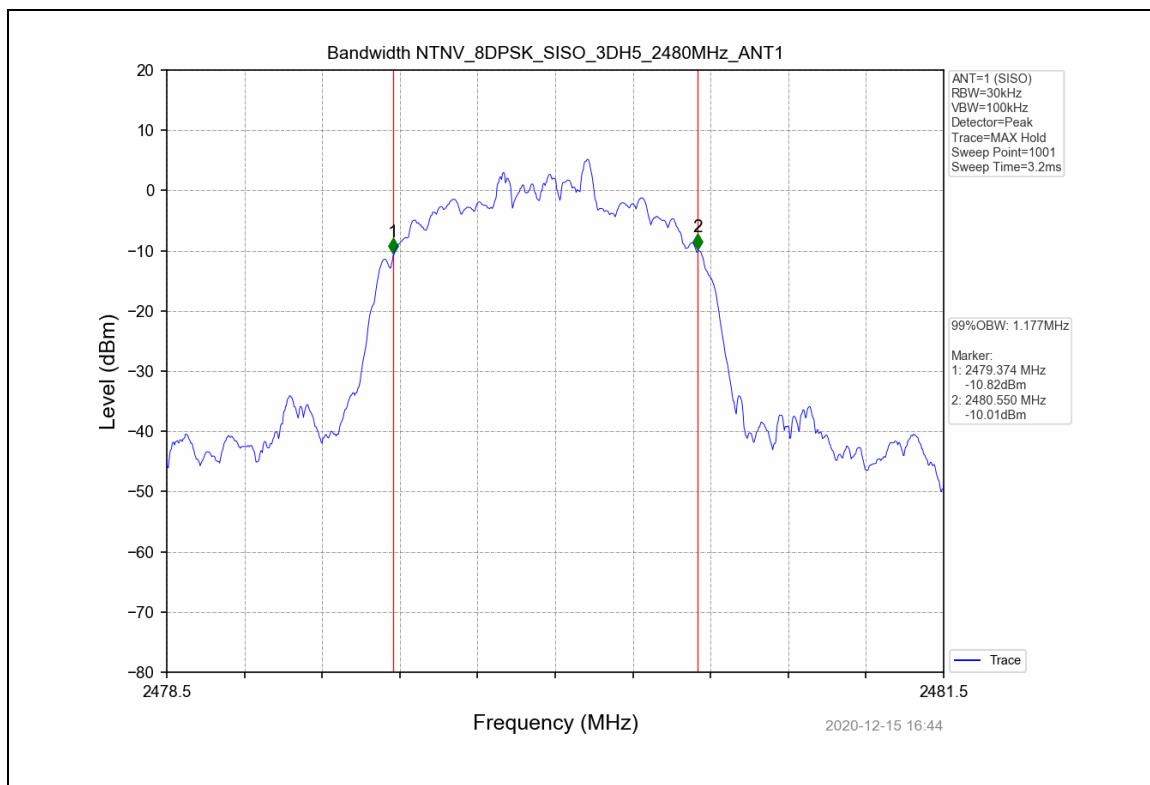
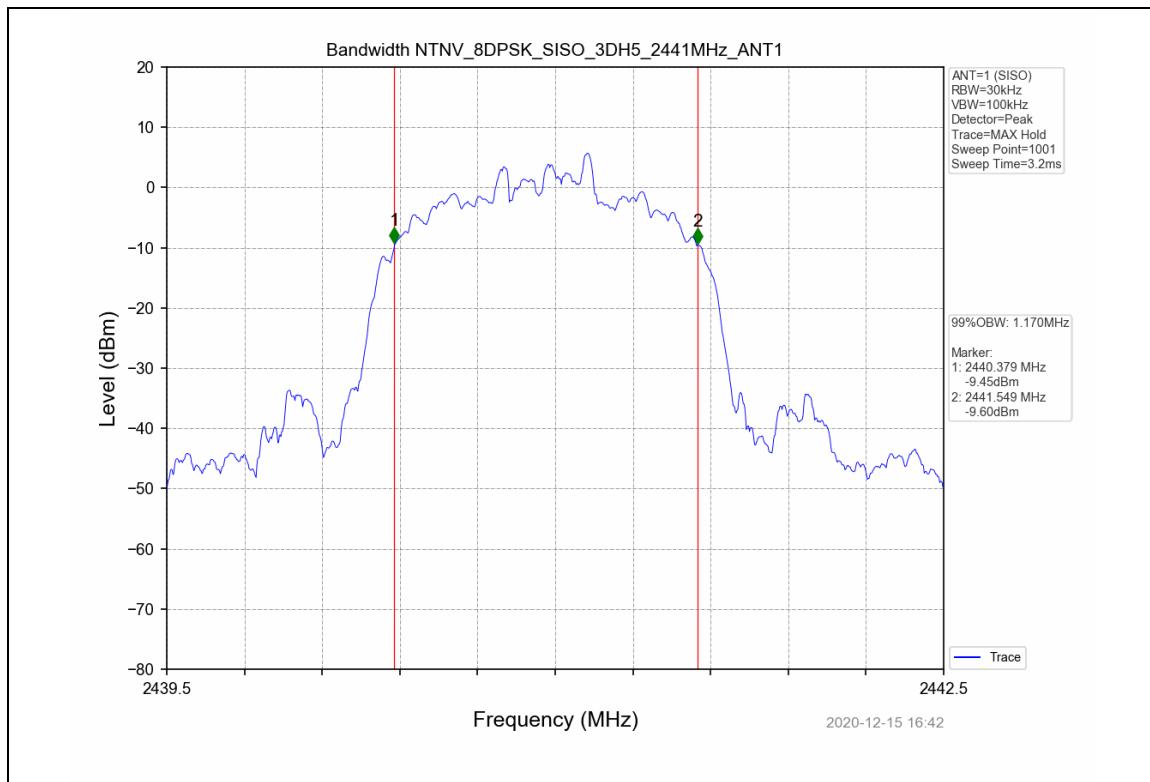
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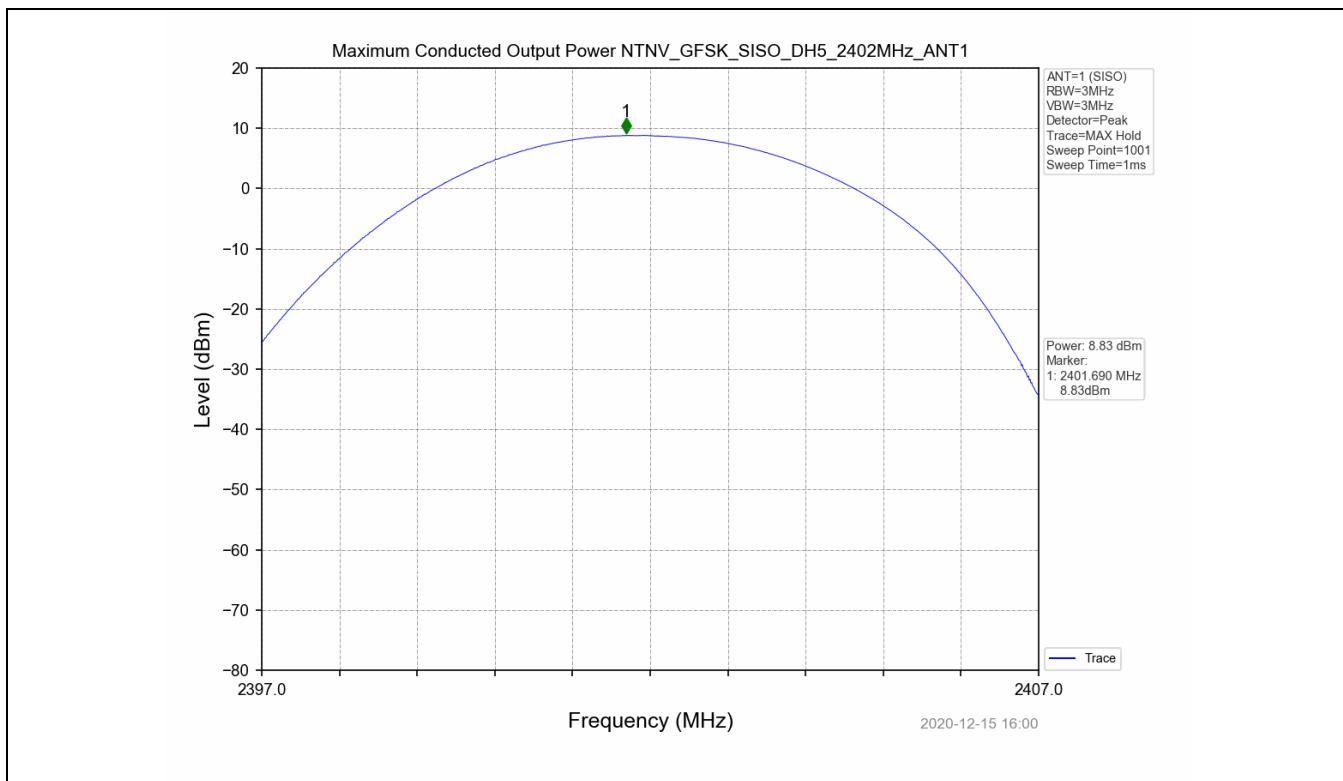
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2. Maximum Conducted Output Power

2.1 Test Result

Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
GFSK	2402	SISO	8.83	20.97	PASS
	2441	SISO	9.12	20.97	PASS
	2480	SISO	8.64	20.97	PASS
Pi/4DQPSK	2402	SISO	8.60	20.97	PASS
	2441	SISO	8.87	20.97	PASS
	2480	SISO	8.42	20.97	PASS
8DPSK	2402	SISO	8.65	20.97	PASS
	2441	SISO	9.09	20.97	PASS
	2480	SISO	8.55	20.97	PASS

2.2 Test Graph



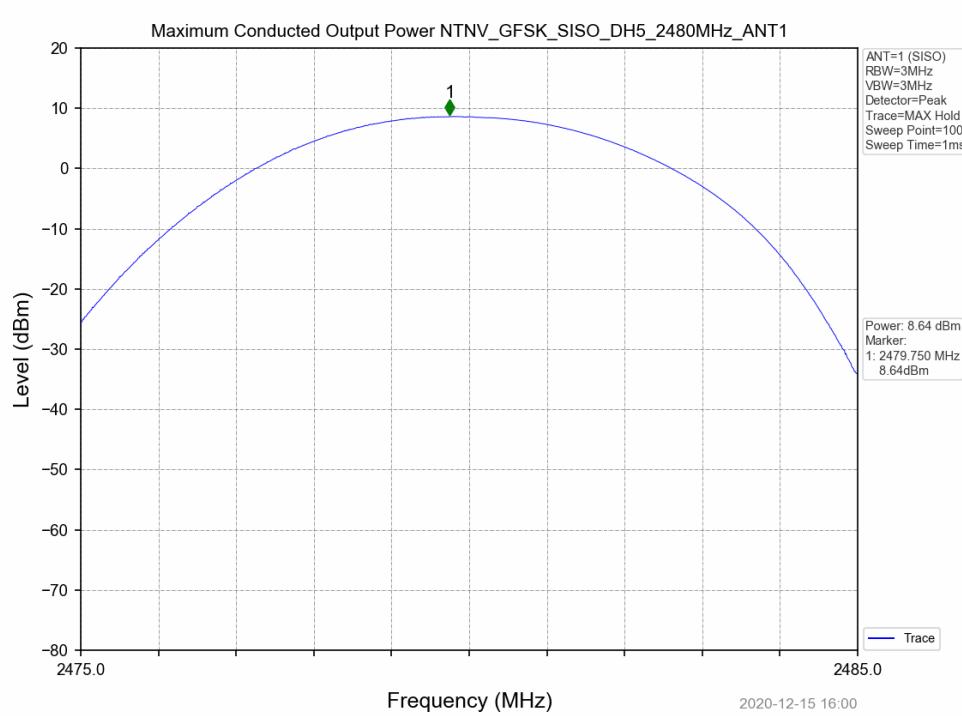
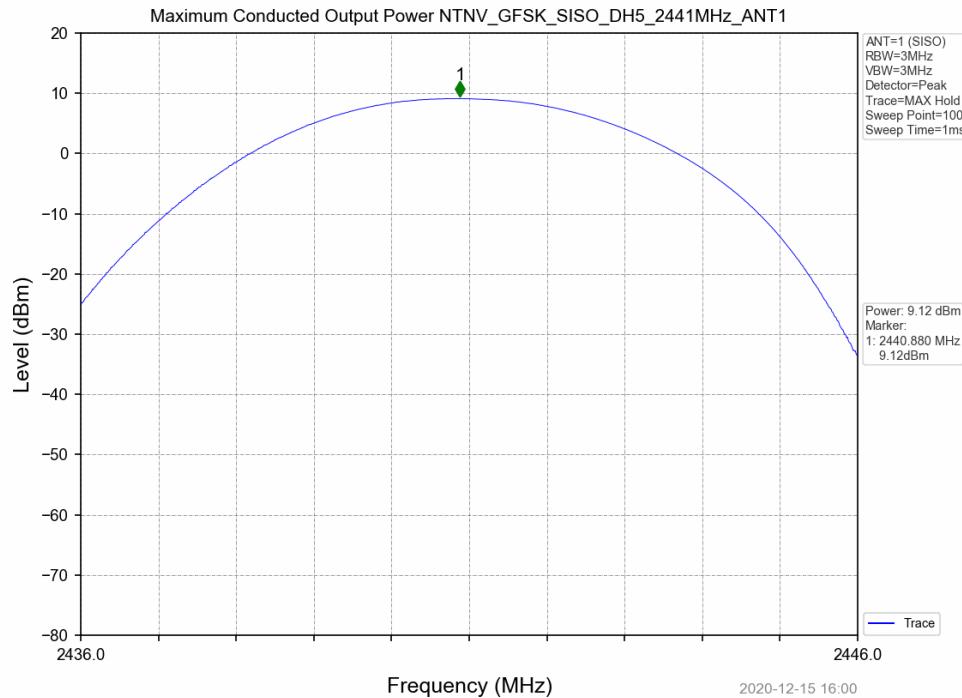
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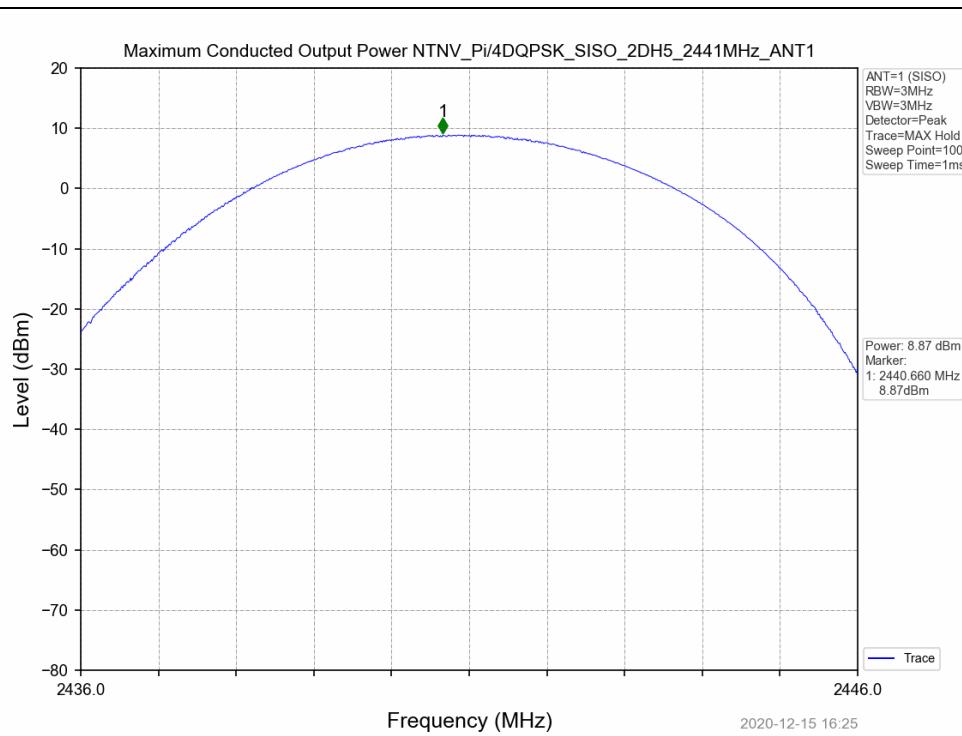
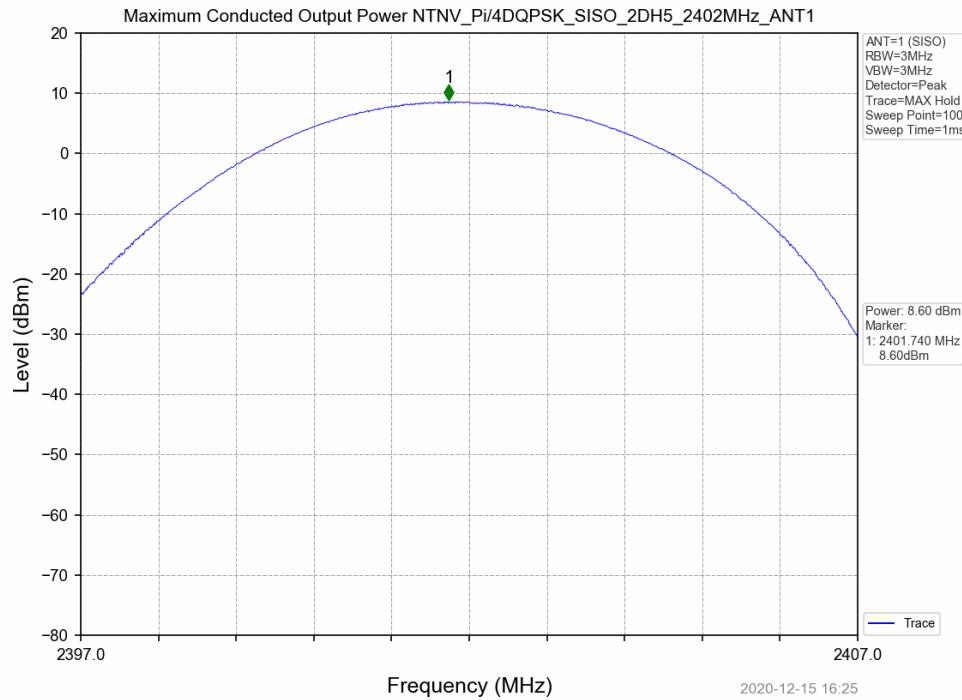
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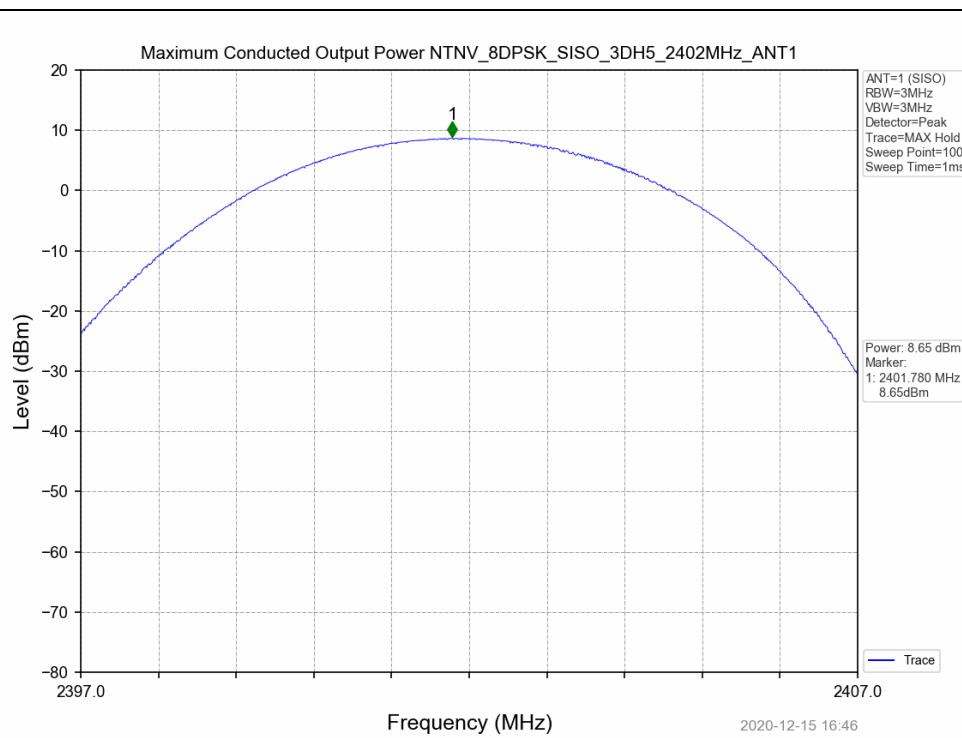
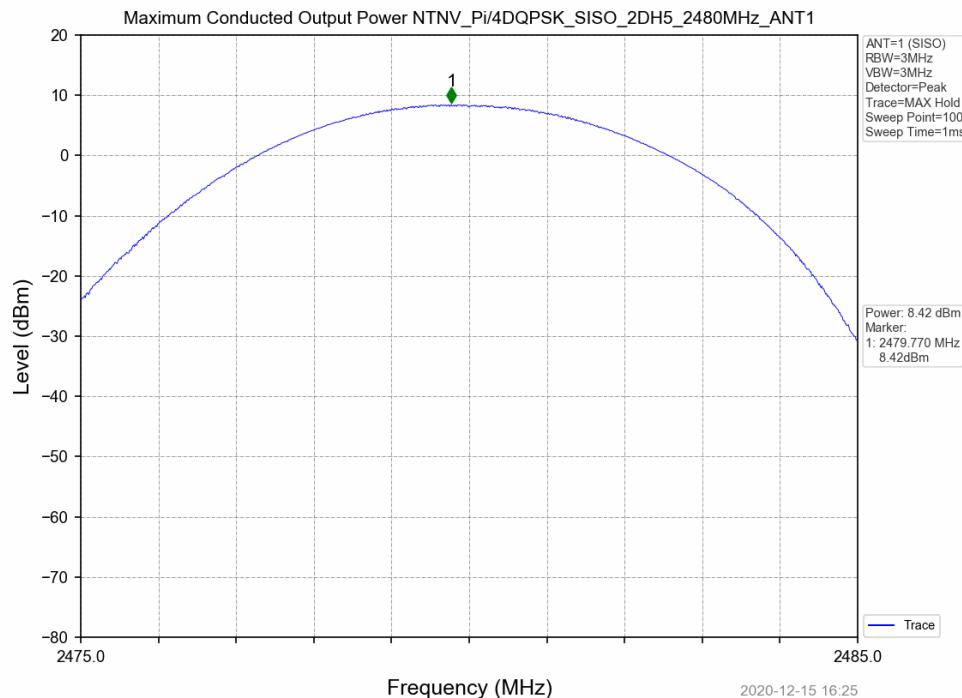
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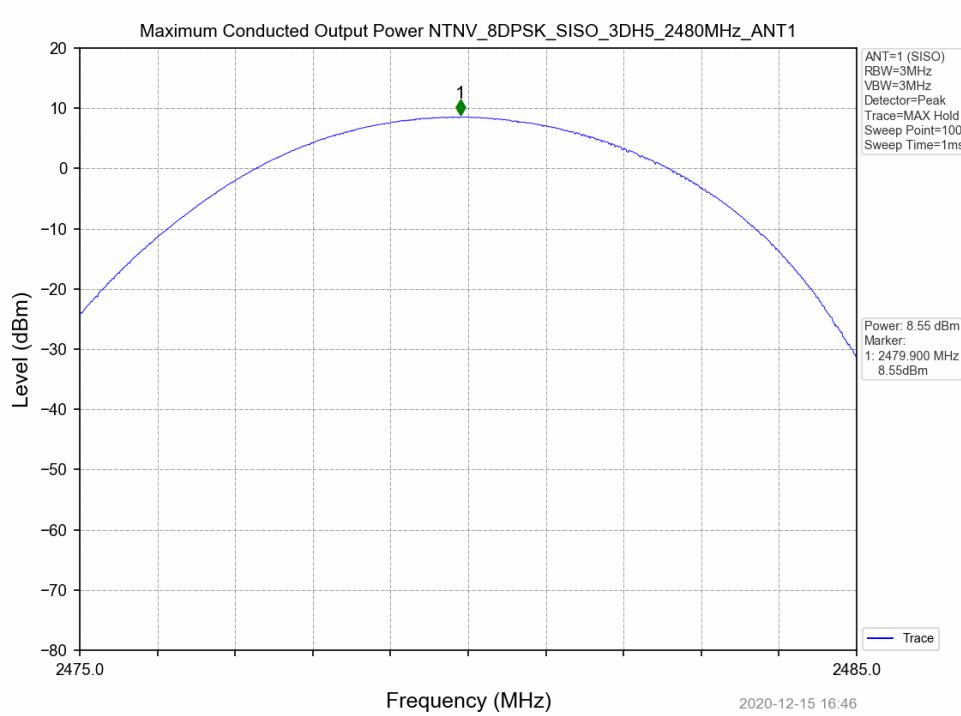
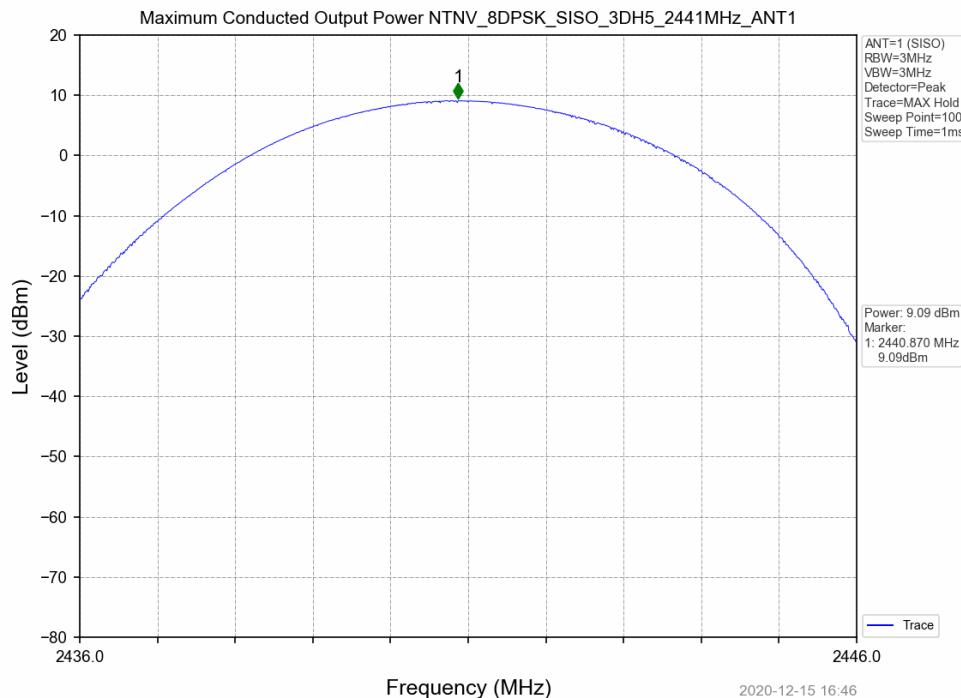
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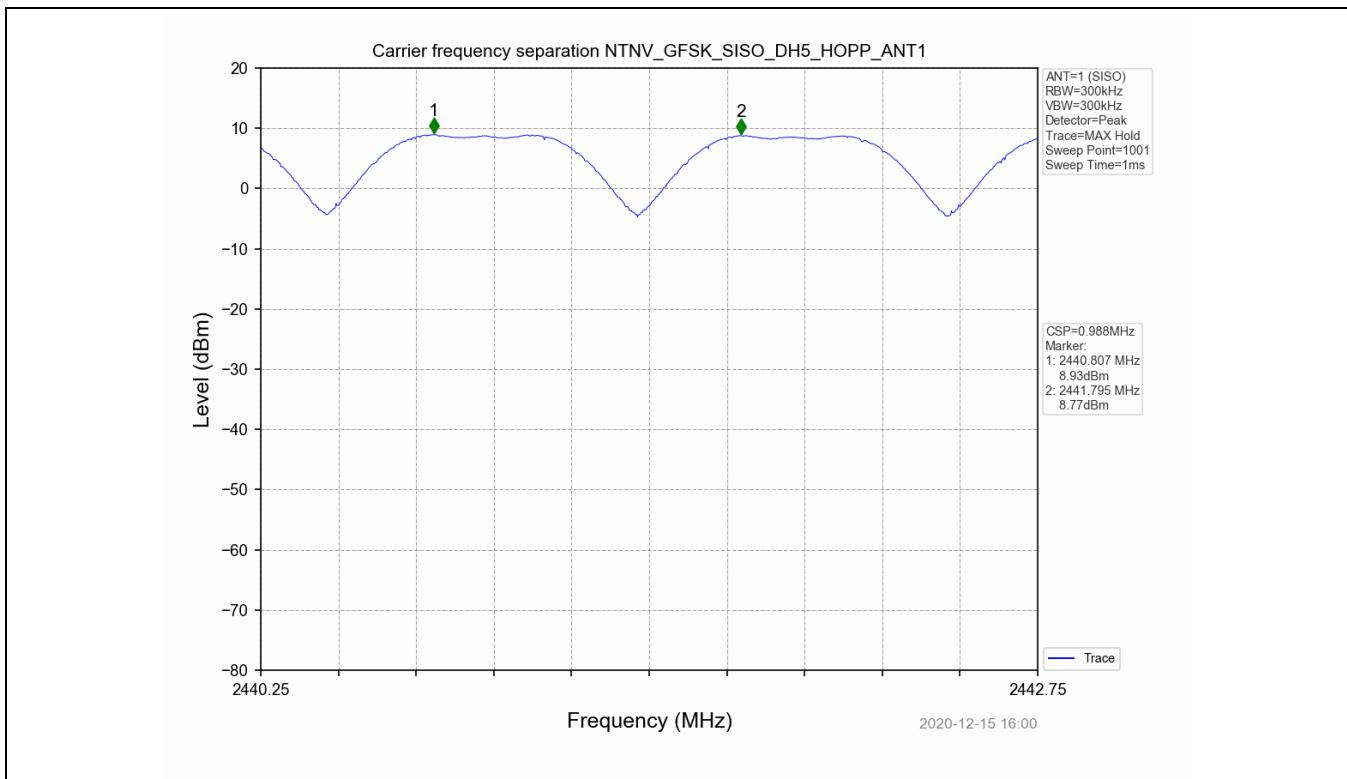
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3. Carrier frequency separation

3.1 Test Result

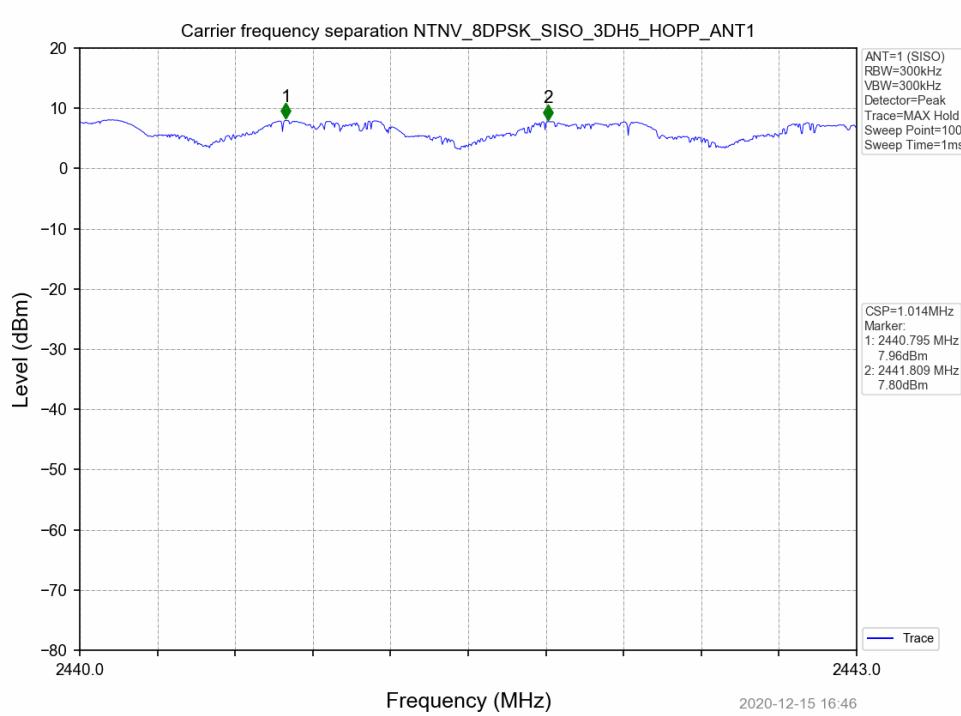
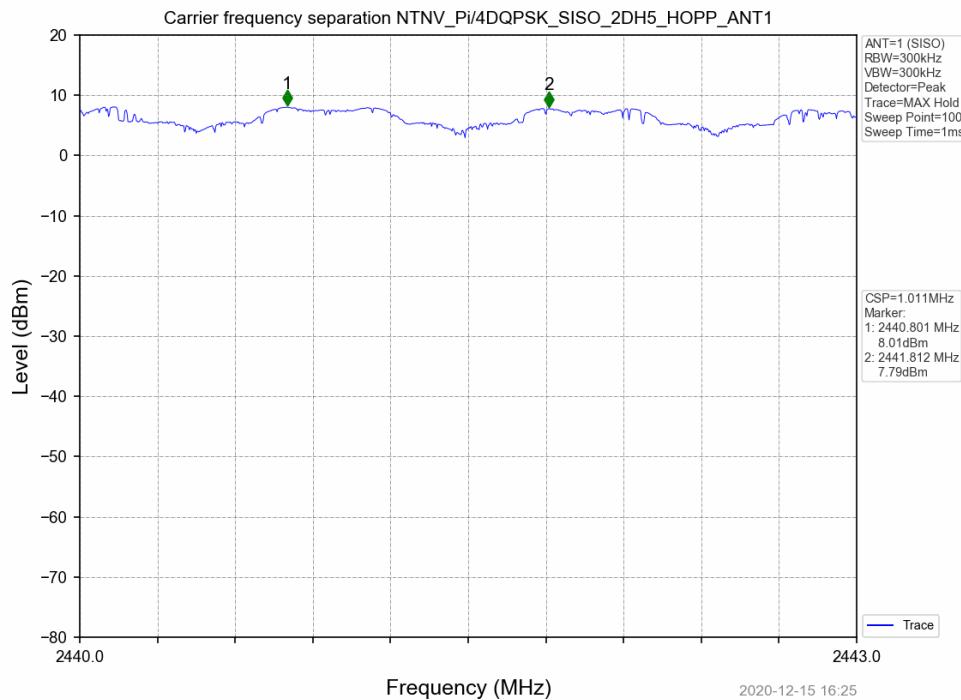
Test Mode	TX Type	ANT No.	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limits (MHz)	Verdict
GFSK	SISO	1	0.988	1.034	≥0.689	PASS
Pi/4DQPSK	SISO	1	1.011	1.316	≥0.877	PASS
8DPSK	SISO	1	1.014	1.313	≥0.875	PASS

3.2 Test Graph



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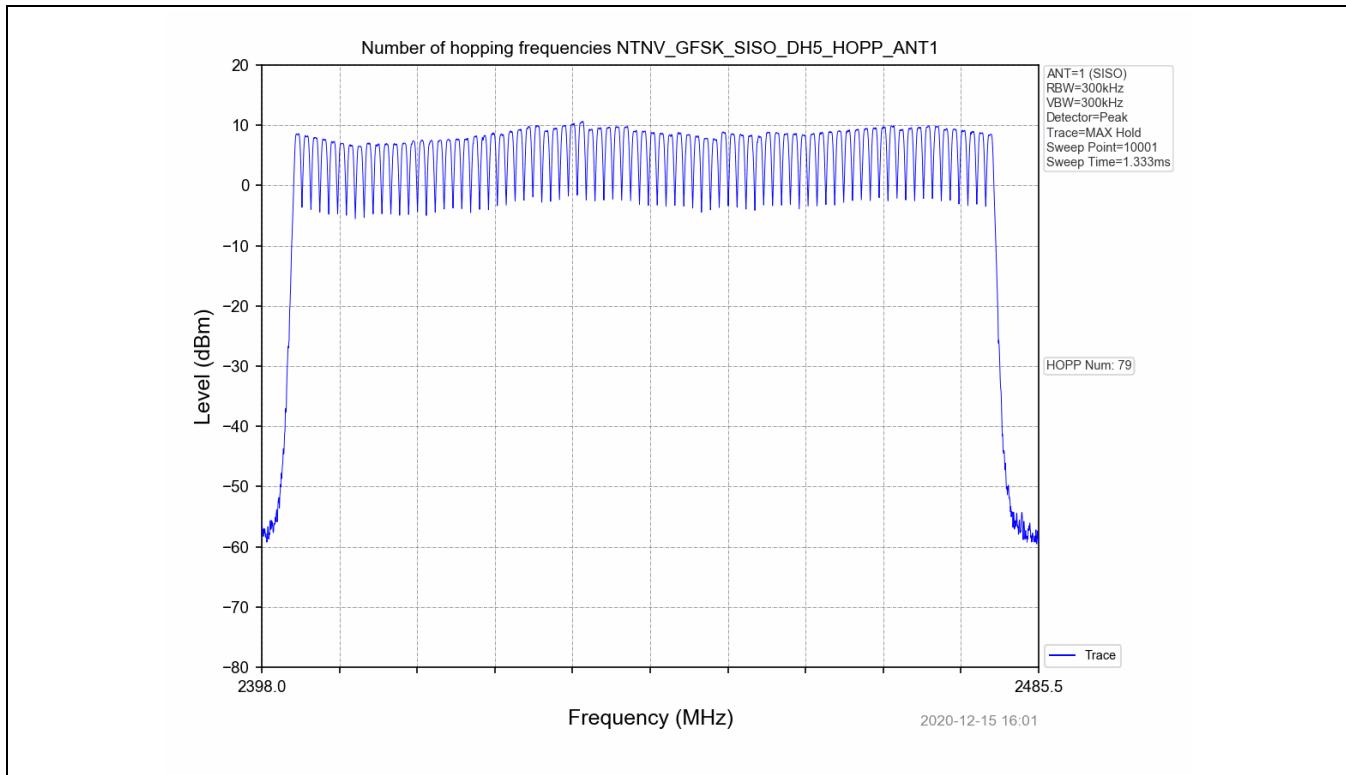
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4. Number of hopping frequencies

4.1 Test Result

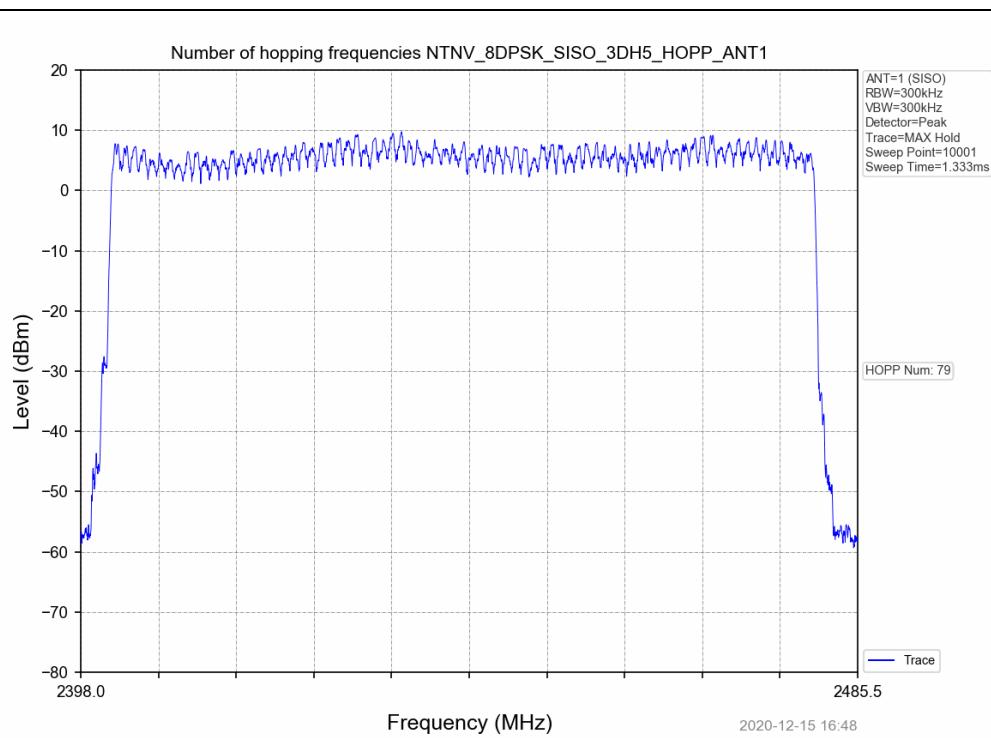
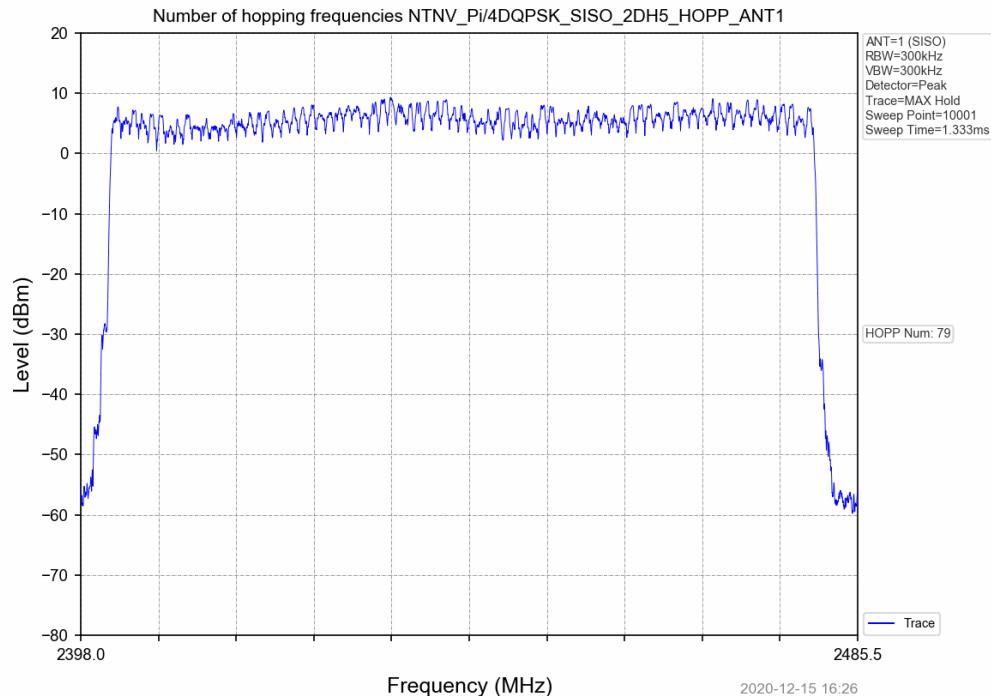
Test Mode	TX Type	ANT No.	Num of Hopping Frequencies	Limits	Verdict
GFSK	SISO	1	79	≥15	PASS
Pi/4DQPSK	SISO	1	79	≥15	PASS
8DPSK	SISO	1	79	≥15	PASS

4.2 Test Graph



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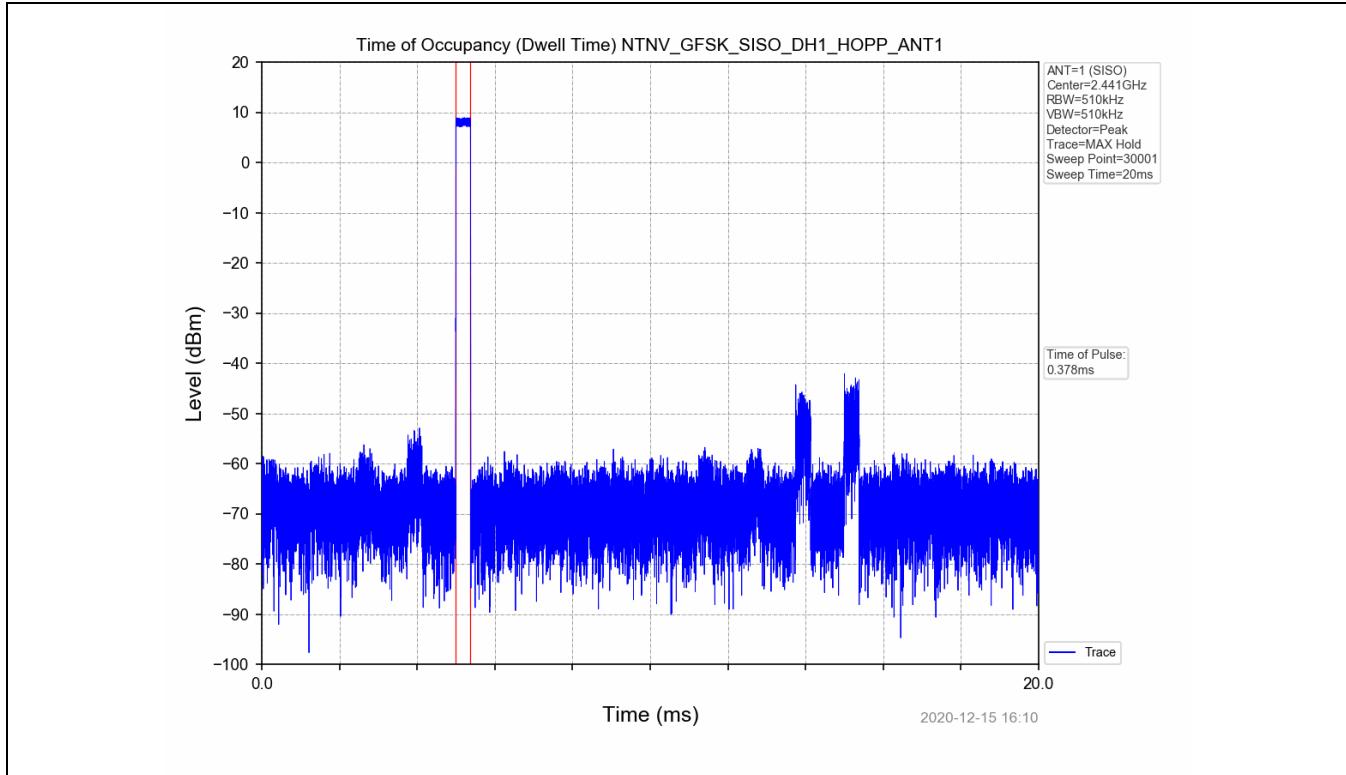
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5. Time of Occupancy (Dwell Time)

5.1 Test Result

Test Mode	Packet Type	TX Type	ANT No.	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limits (ms)	Verdict
GFSK	DH1	SISO	1	0.378	31.6	320	120.960	≤400	PASS
	DH3	SISO	1	1.634	31.6	160	261.440	≤400	PASS
	DH5	SISO	1	2.881	31.6	113	325.553	≤400	PASS
Pi/4DQ PSK	2DH1	SISO	1	0.387	31.6	320	123.840	≤400	PASS
	2DH3	SISO	1	1.639	31.6	160	262.240	≤400	PASS
	2DH5	SISO	1	2.802	31.6	108	302.616	≤400	PASS
8DPSK	3DH1	SISO	1	0.387	31.6	320	123.840	≤400	PASS
	3DH3	SISO	1	1.637	31.6	158	258.646	≤400	PASS
	3DH5	SISO	1	2.889	31.6	115	332.235	≤400	PASS

5.2 Test Graph



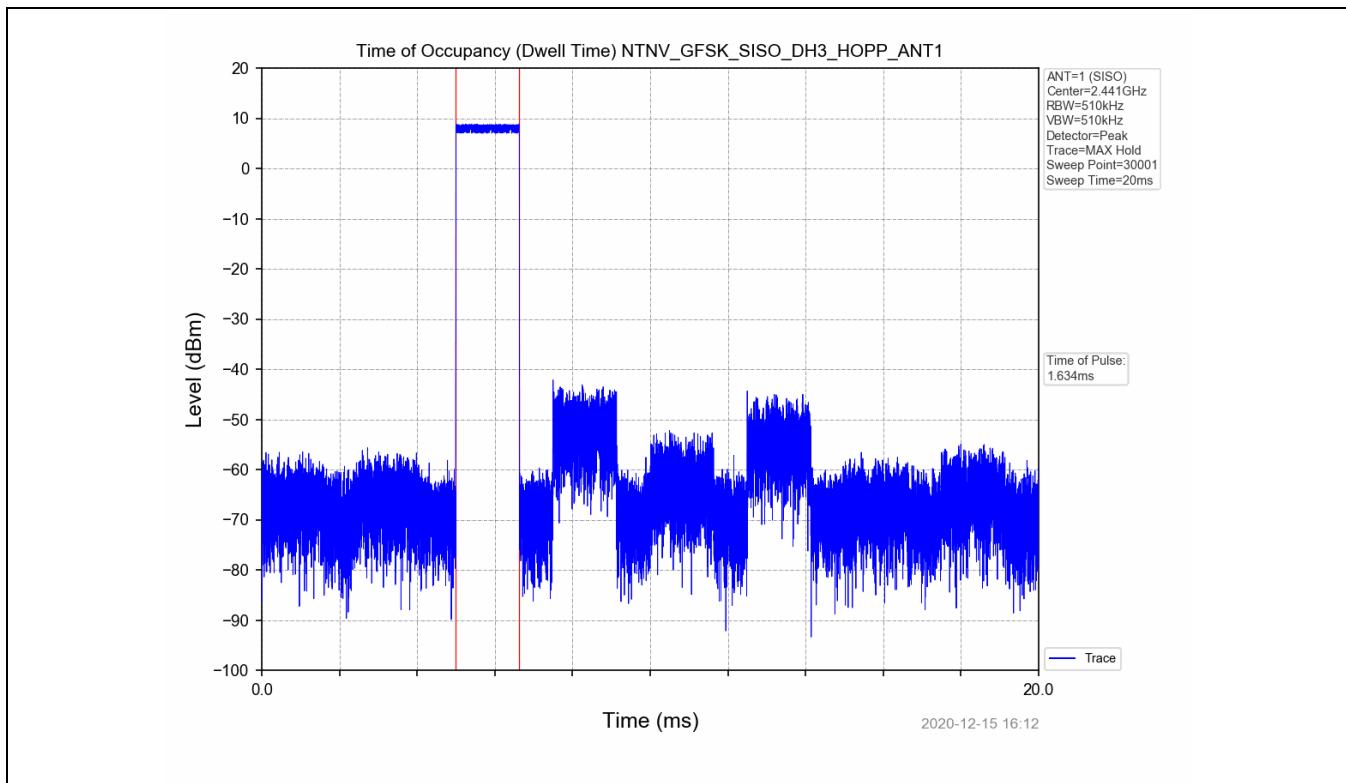
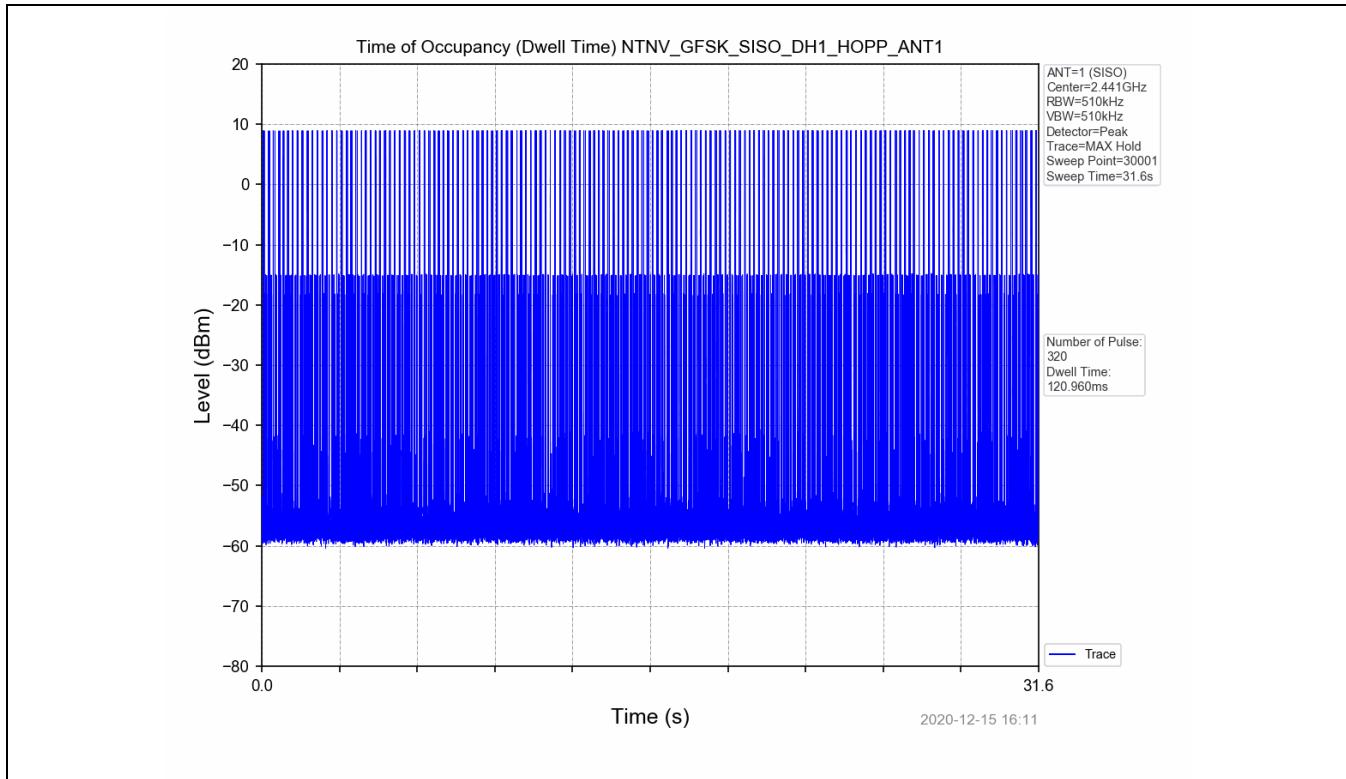
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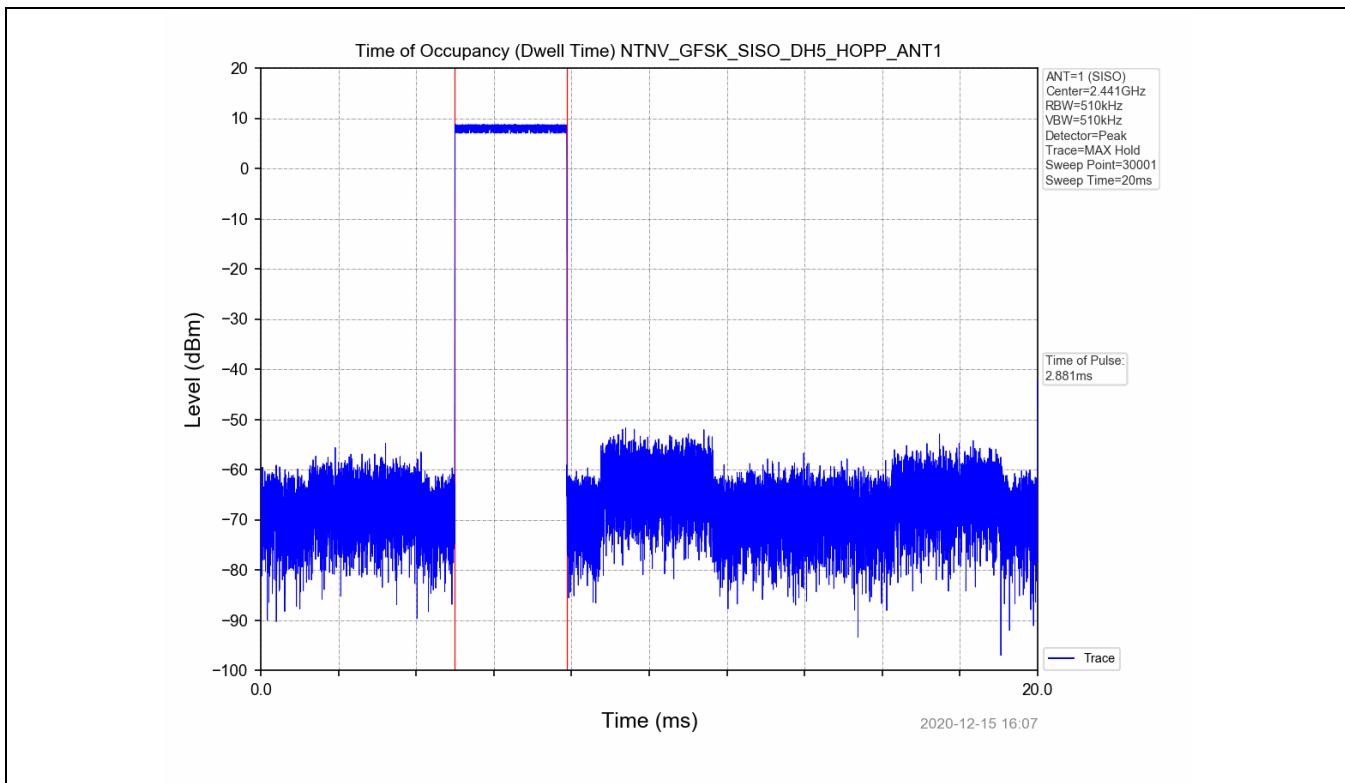
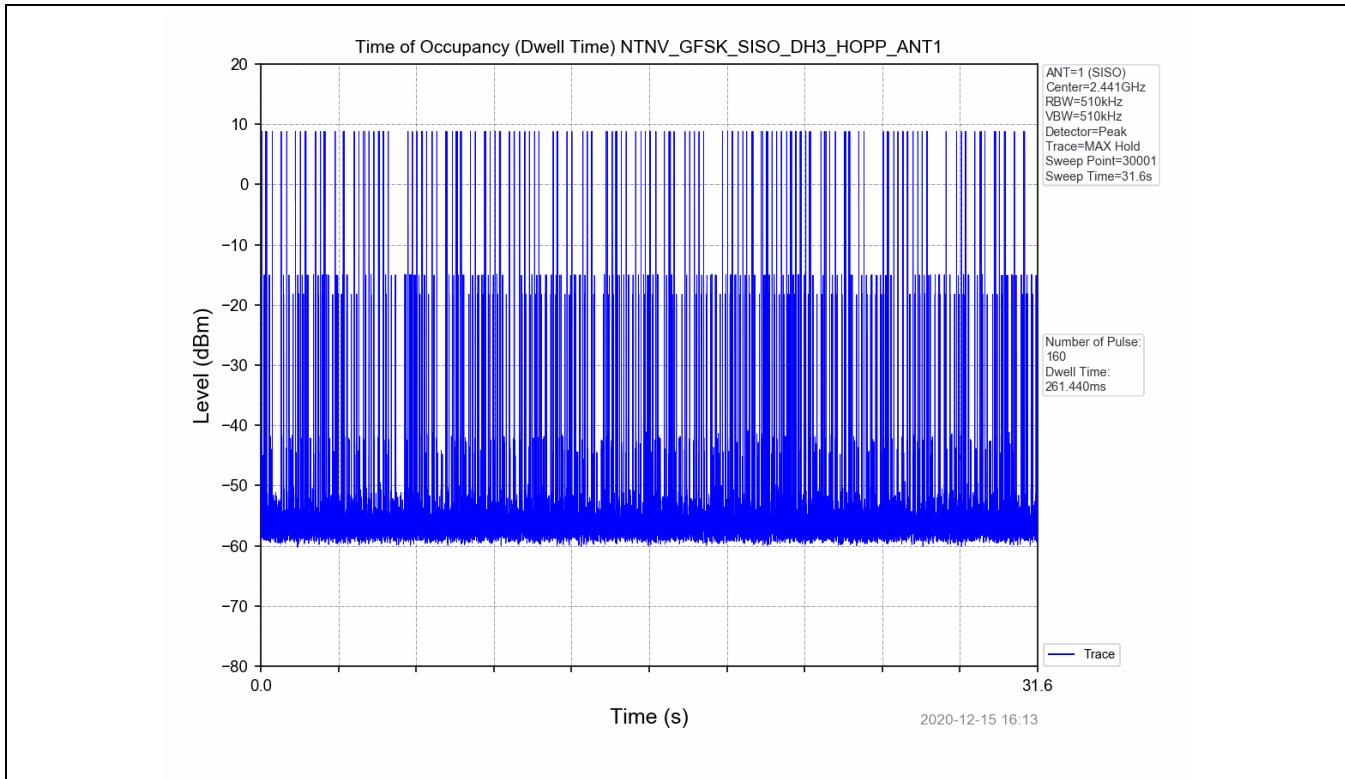
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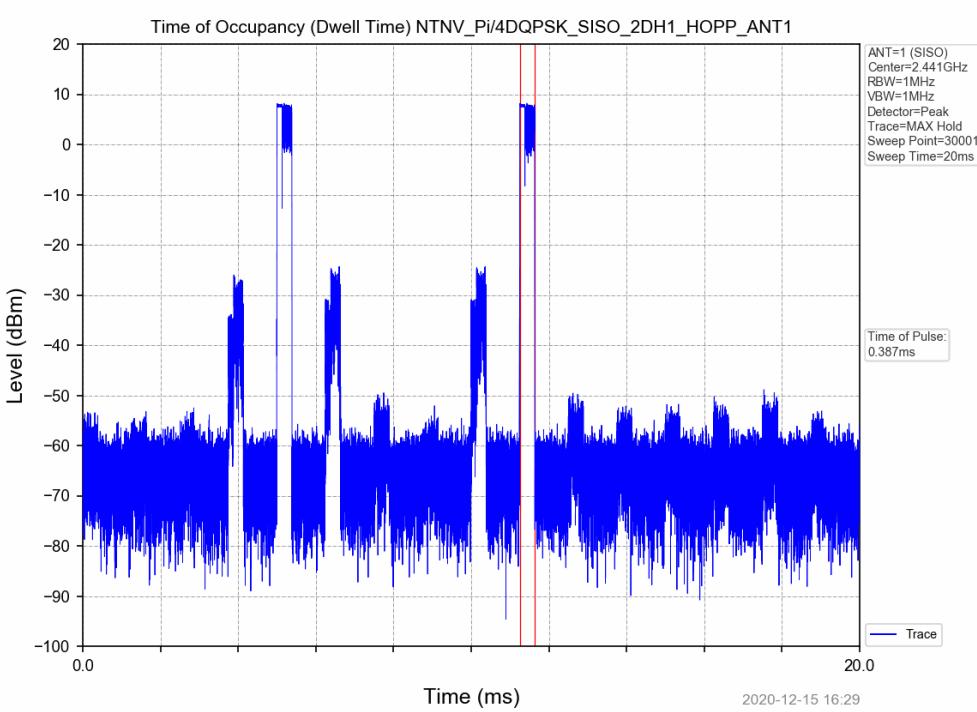
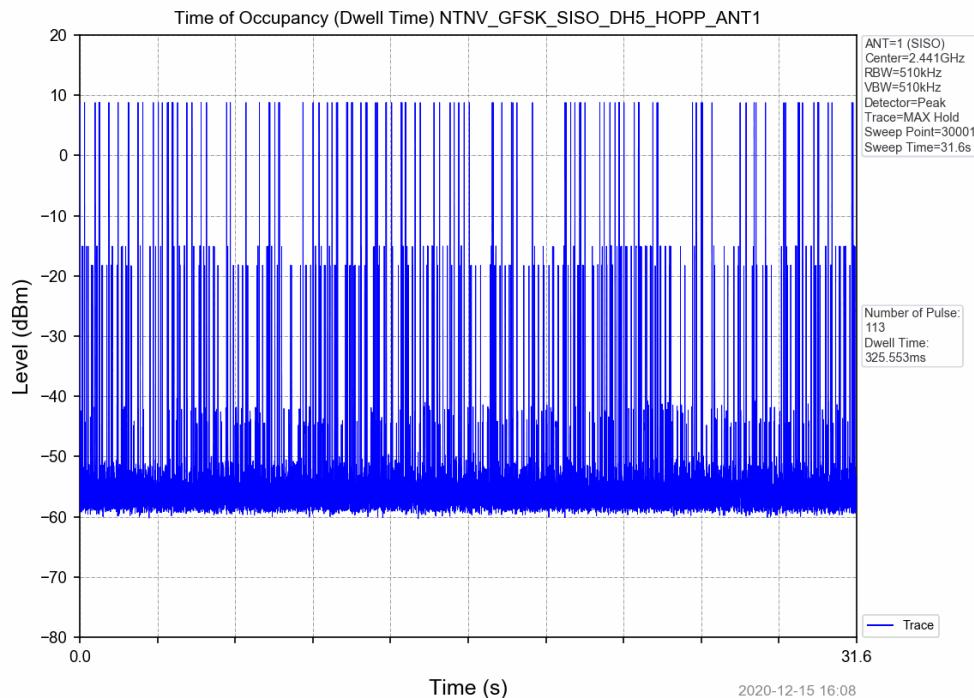


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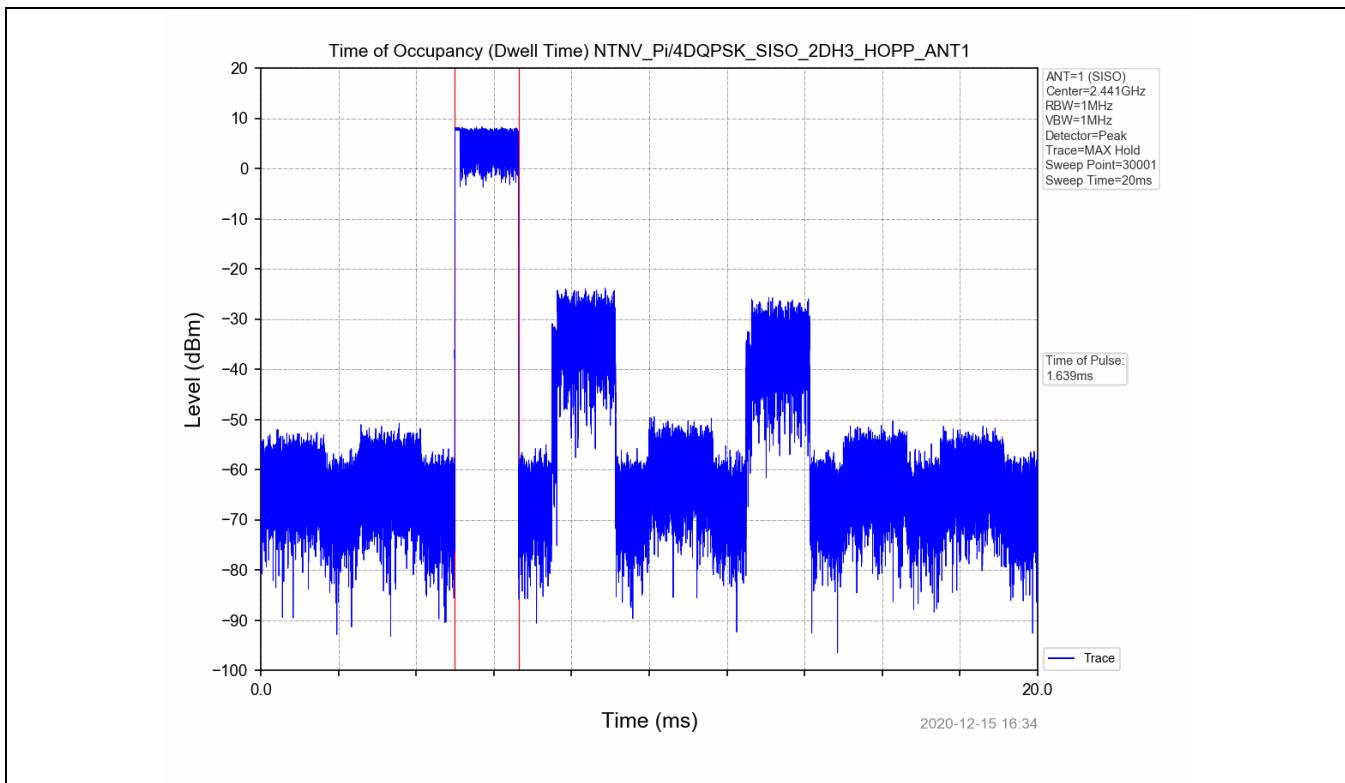
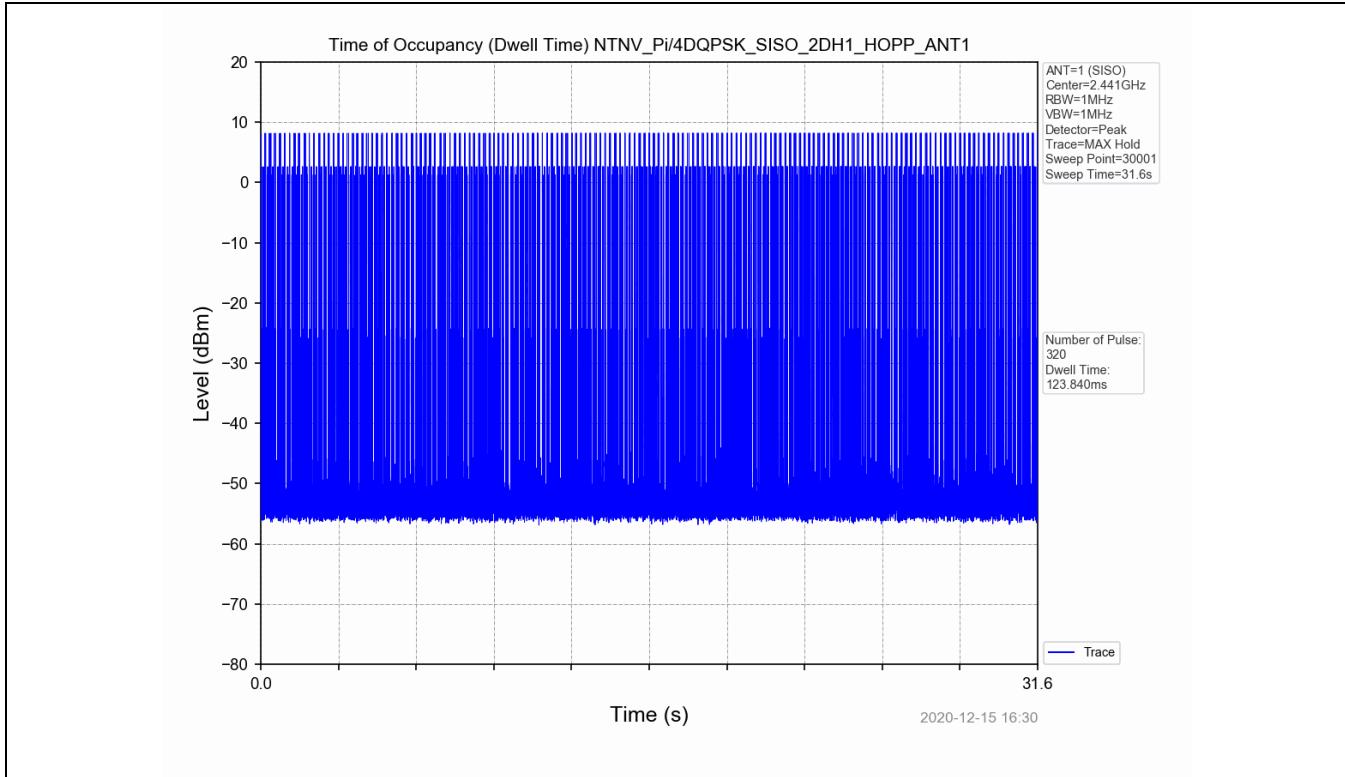






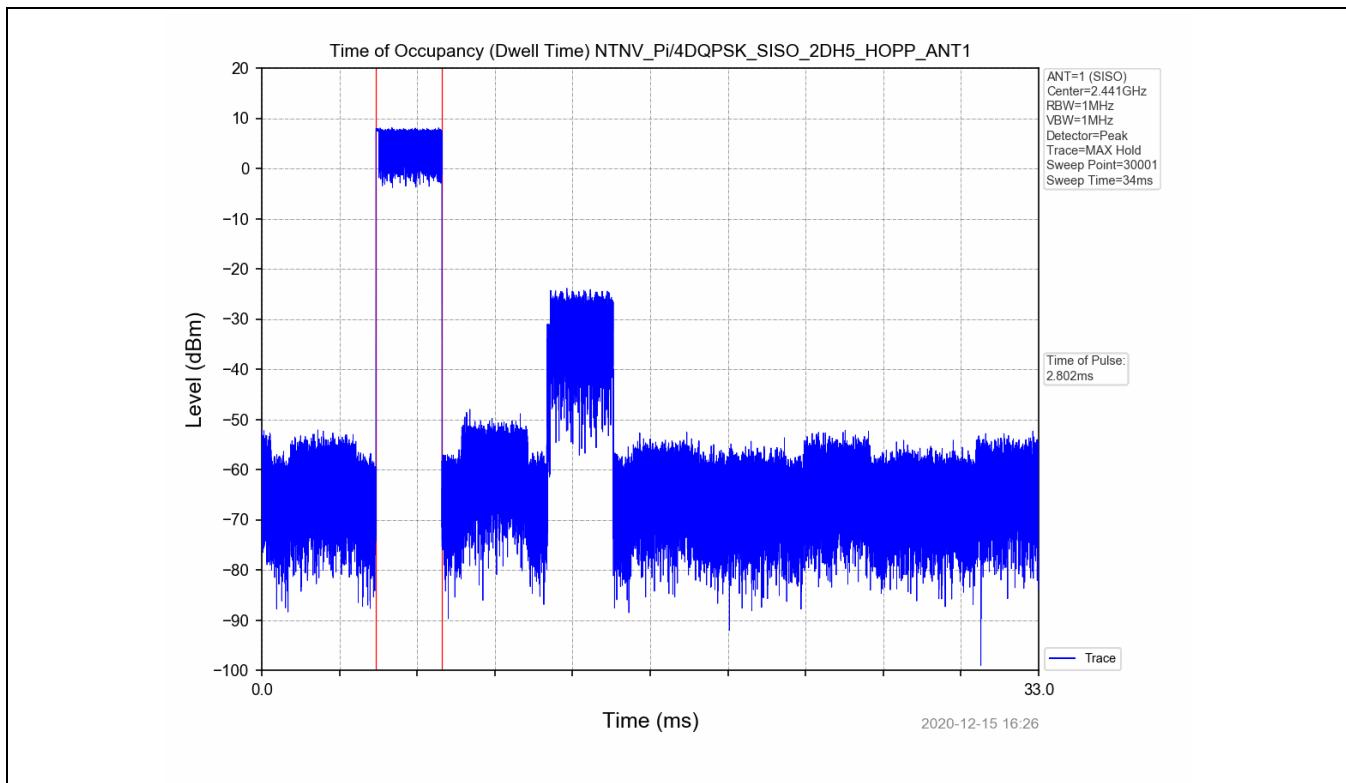
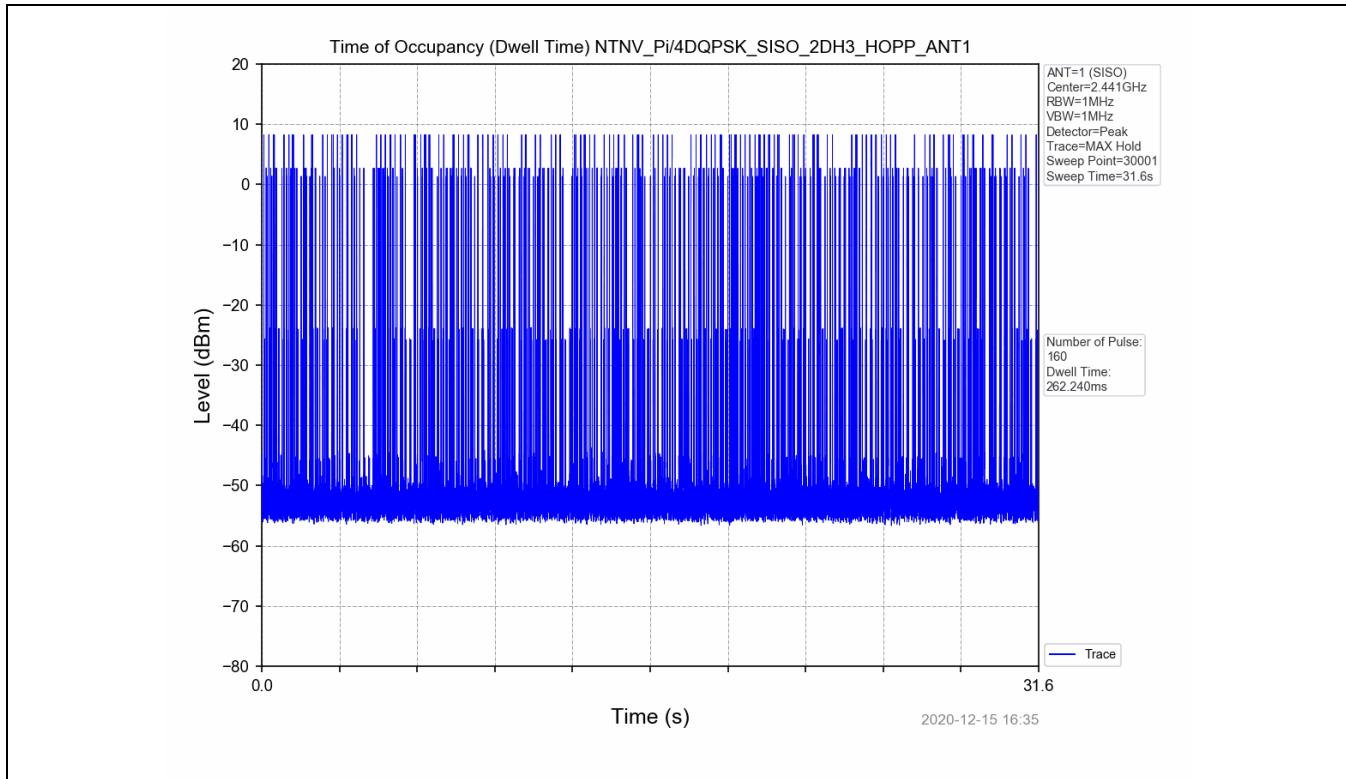
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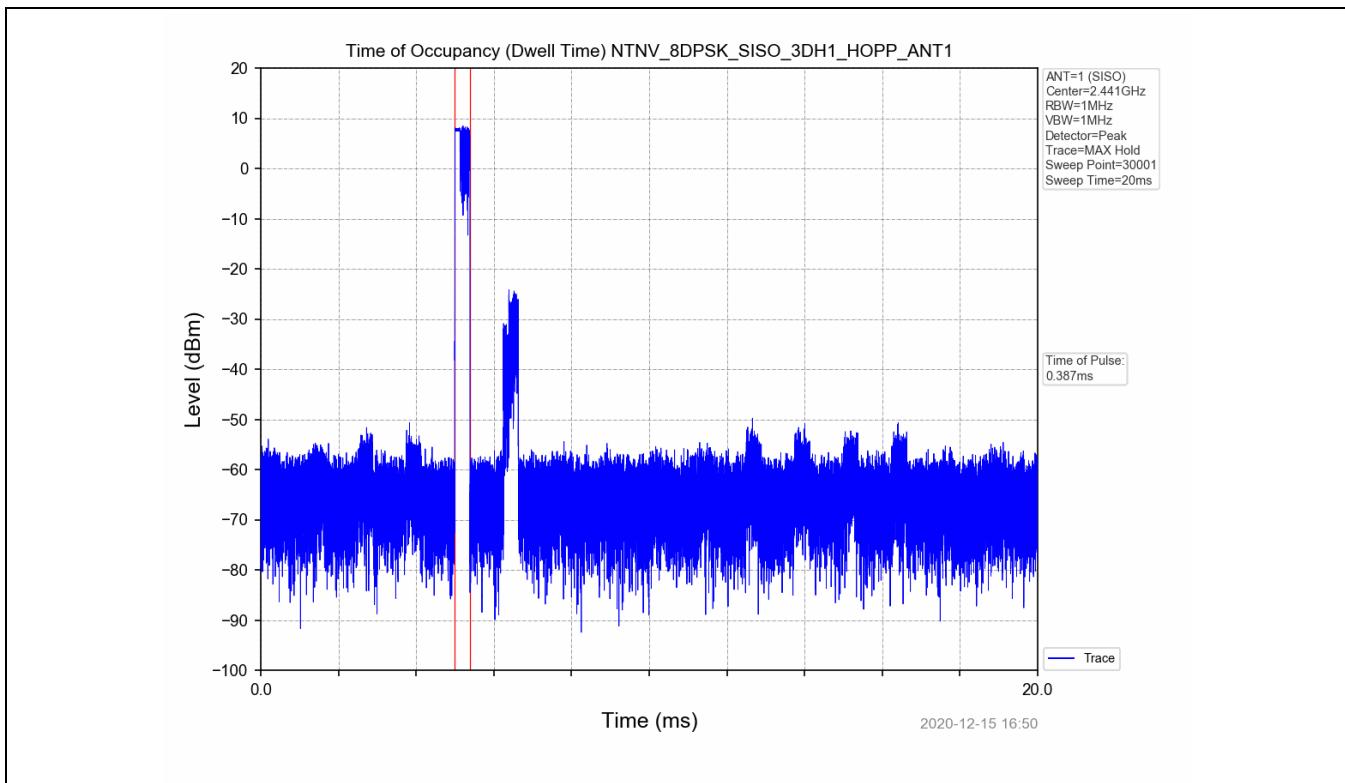
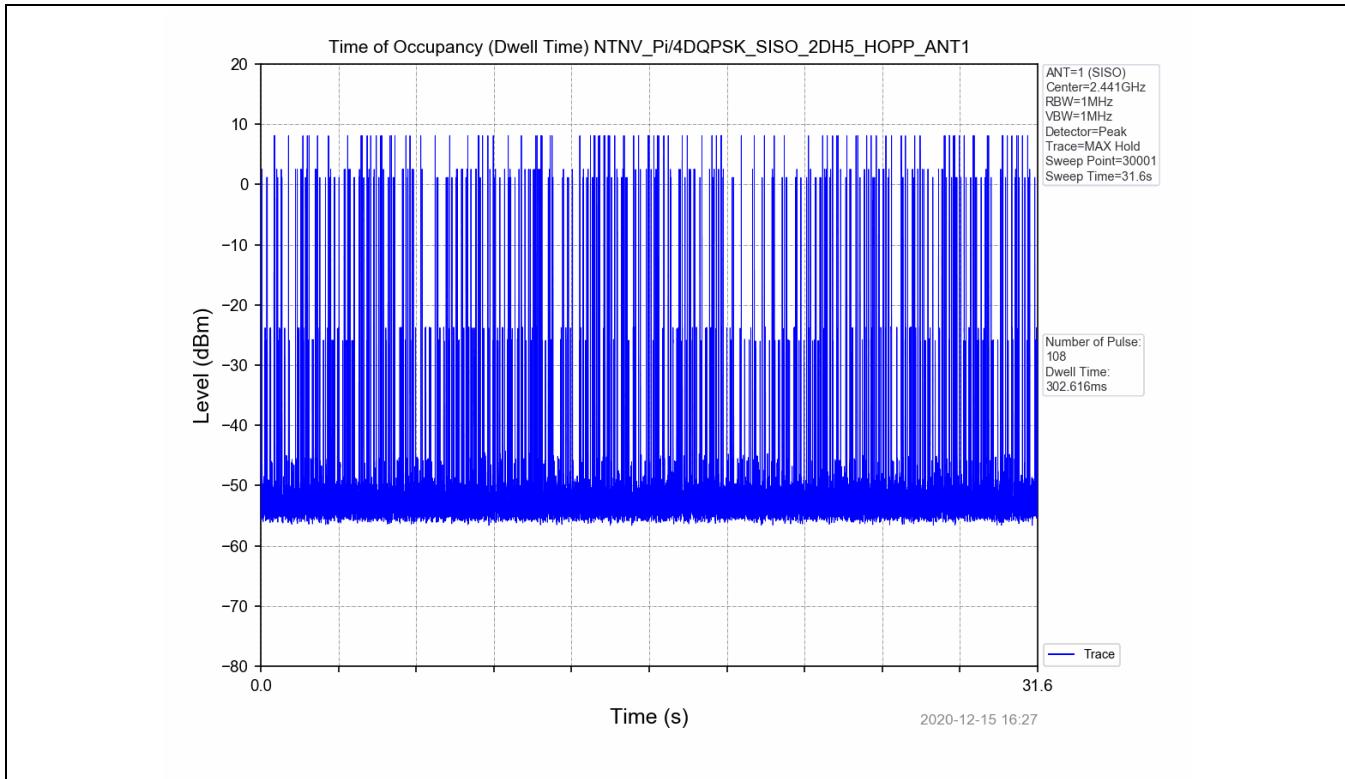
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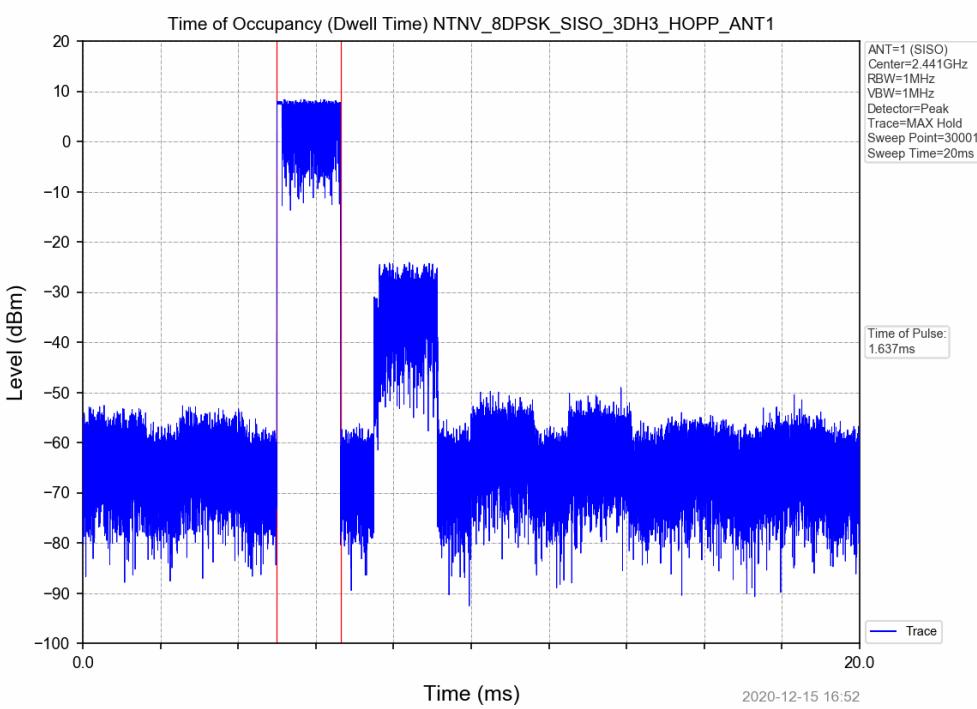
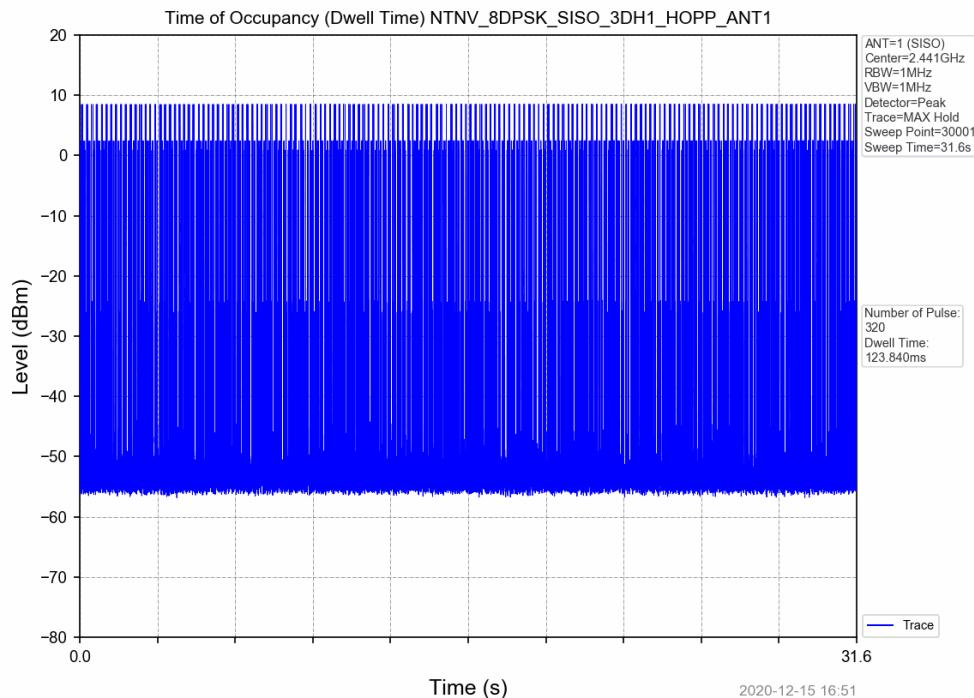
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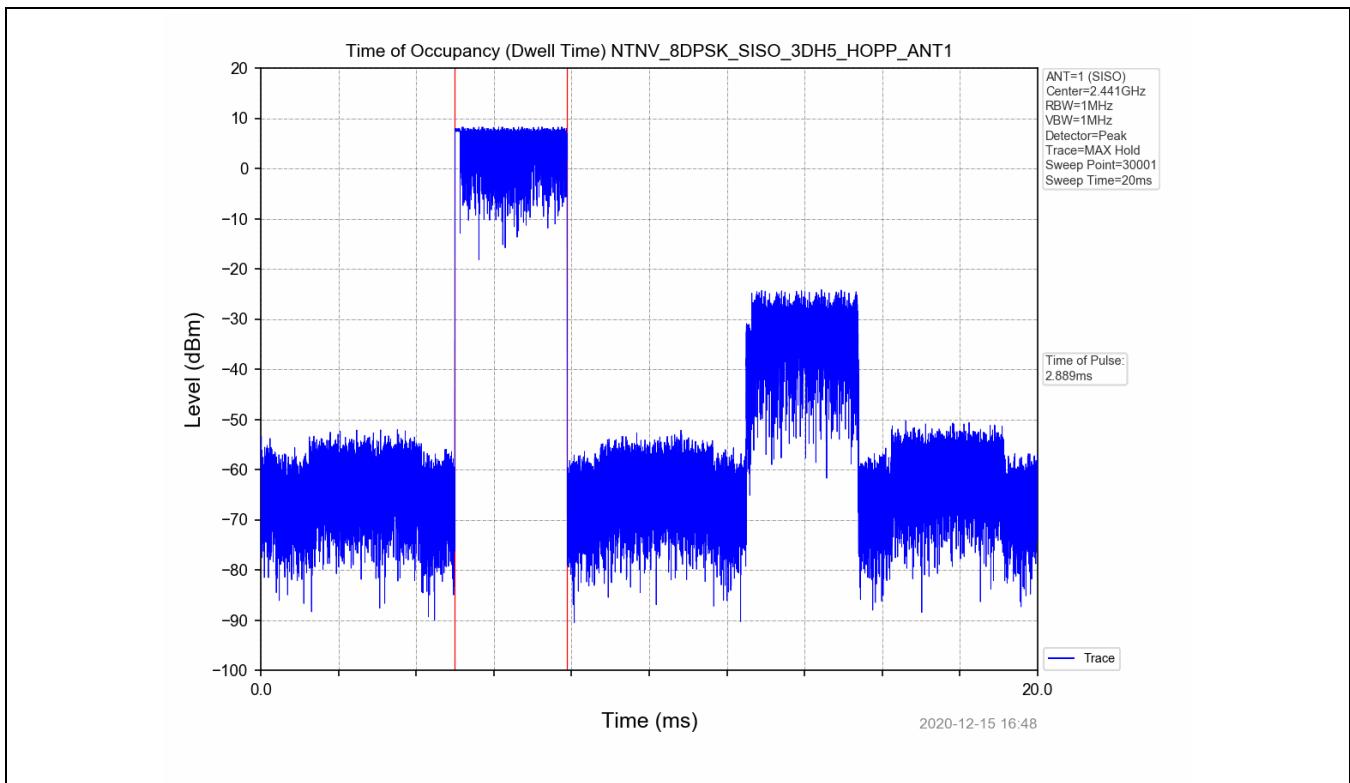
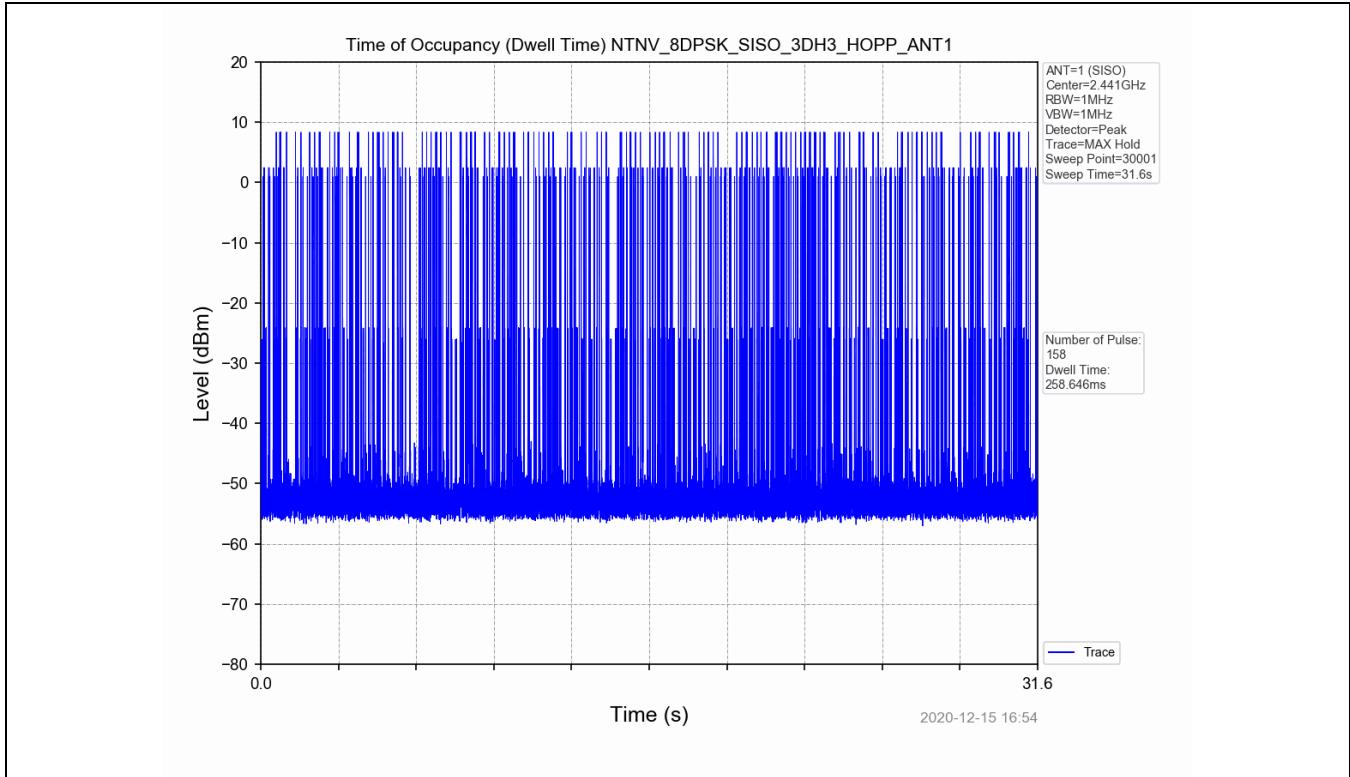
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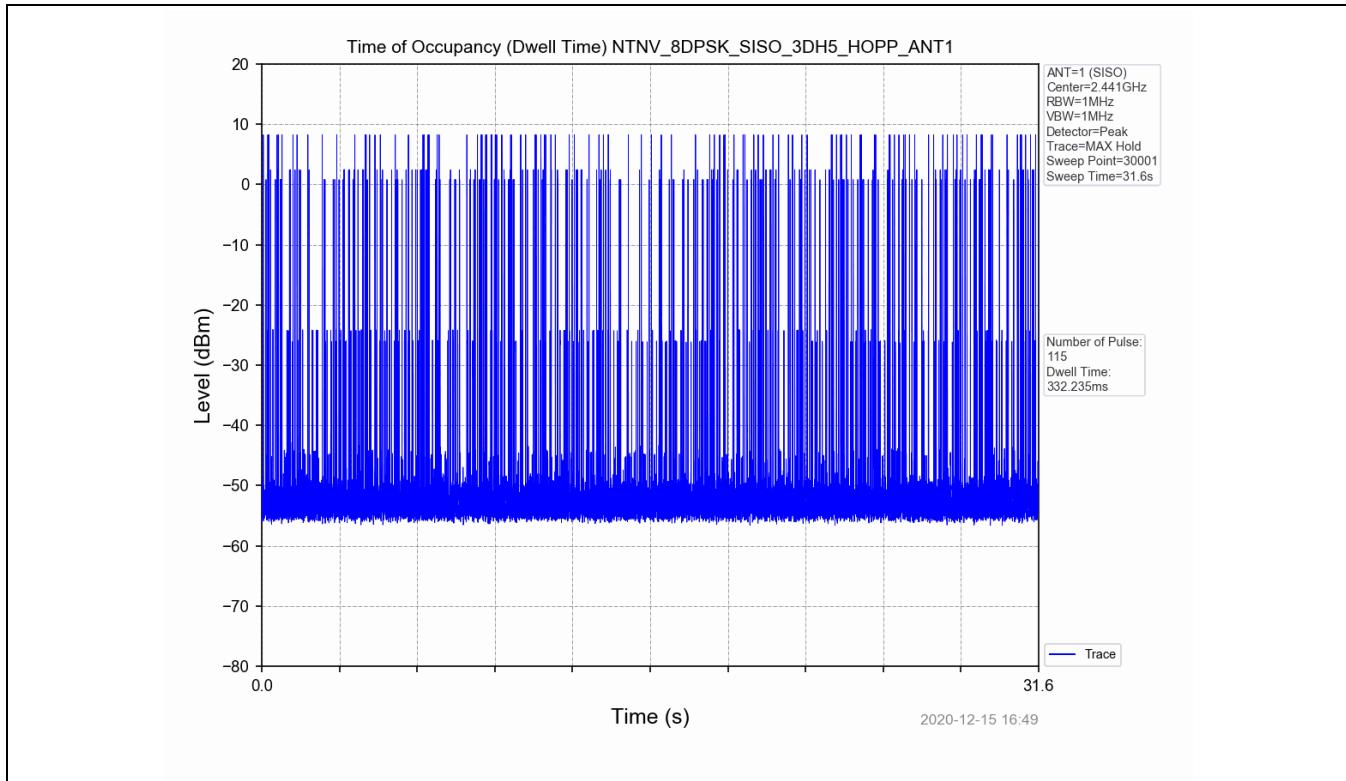
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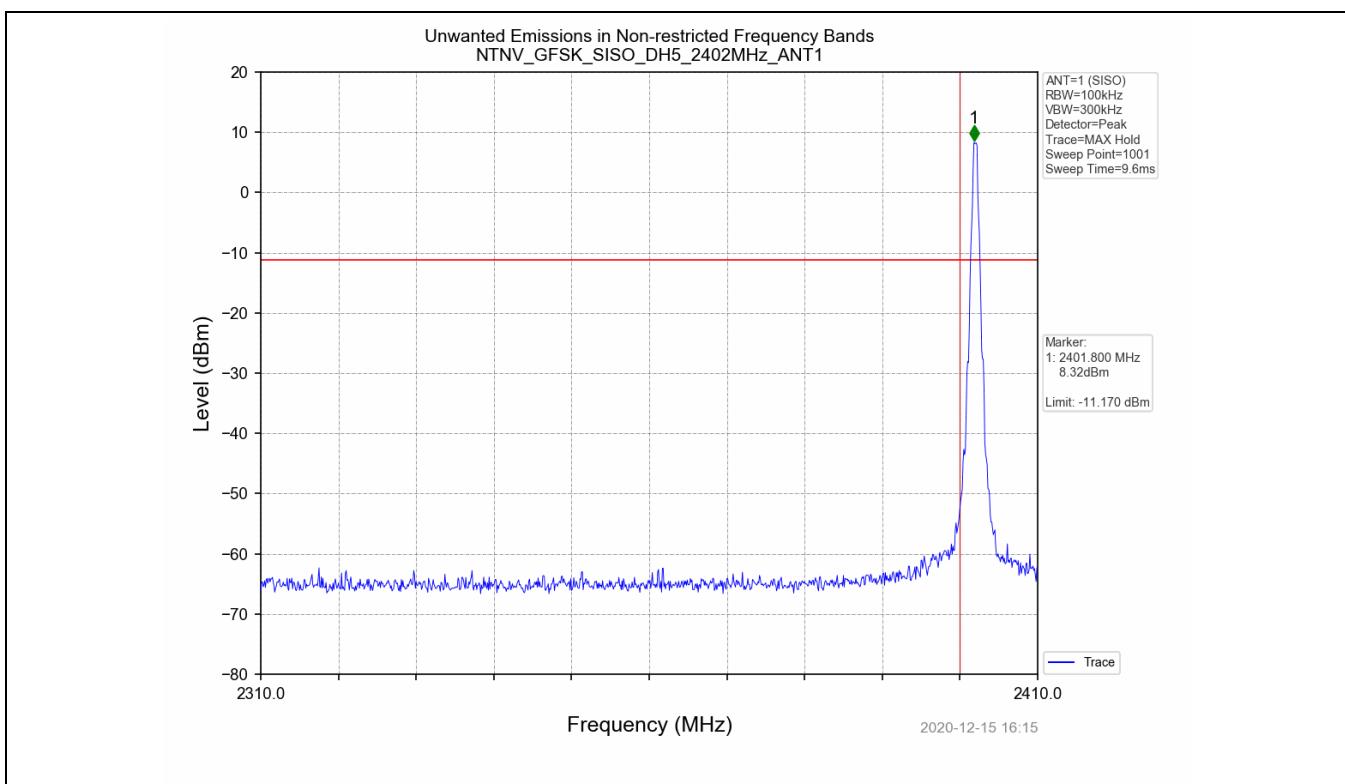
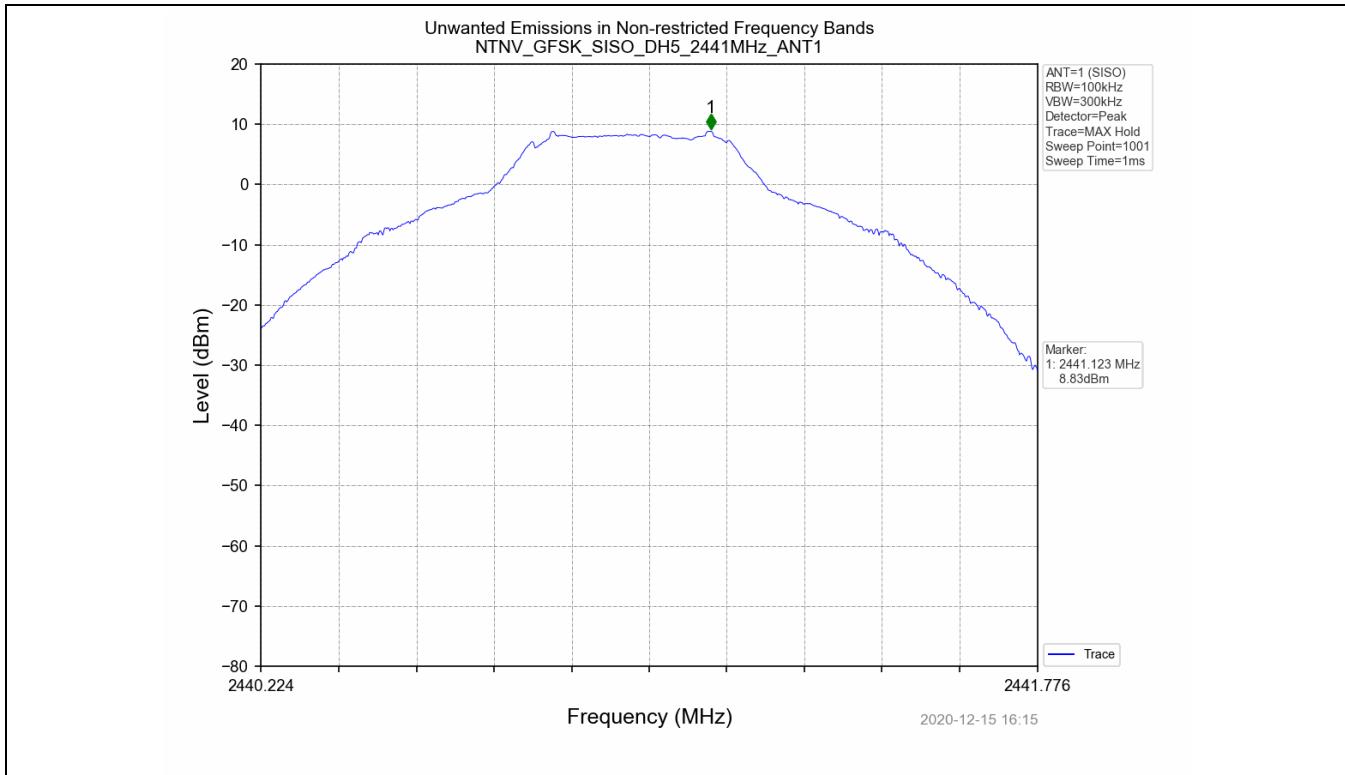
6. Unwanted Emissions in Non-restricted Frequency Bands

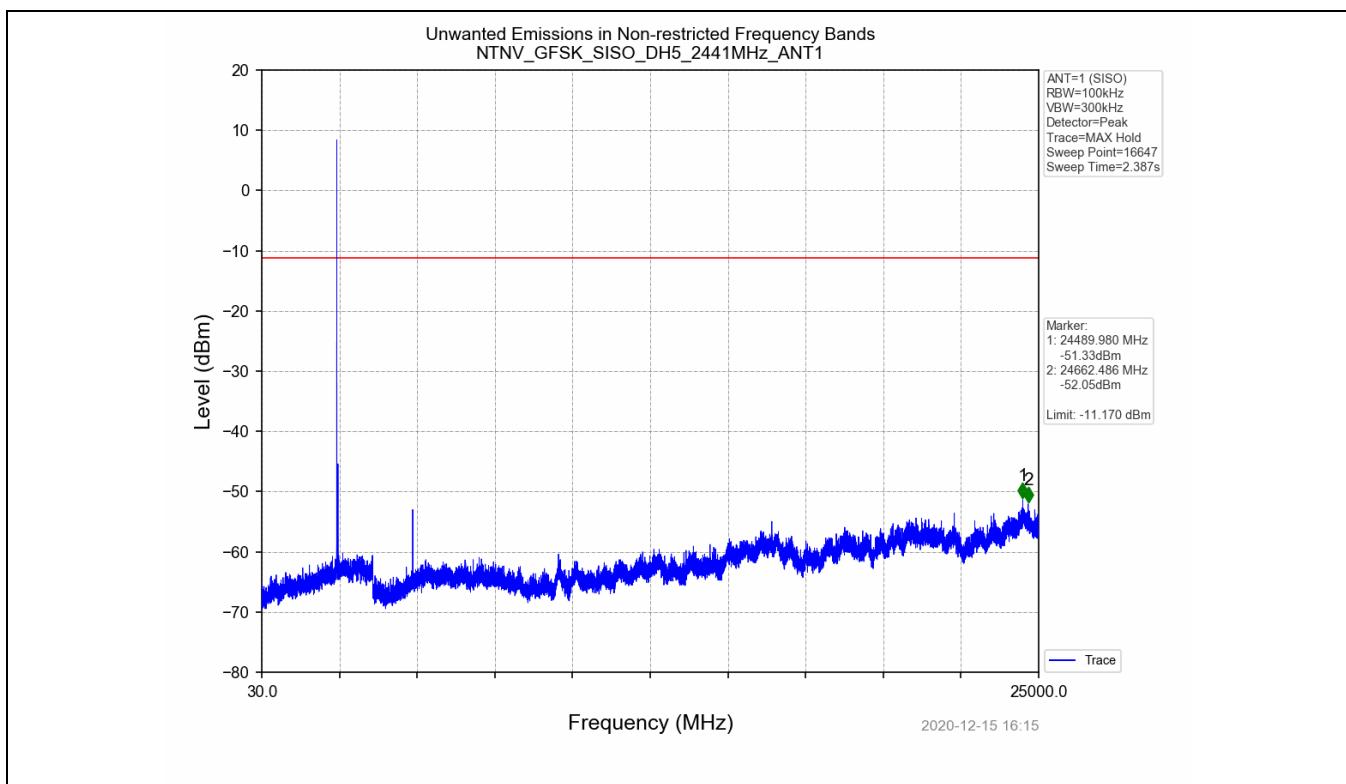
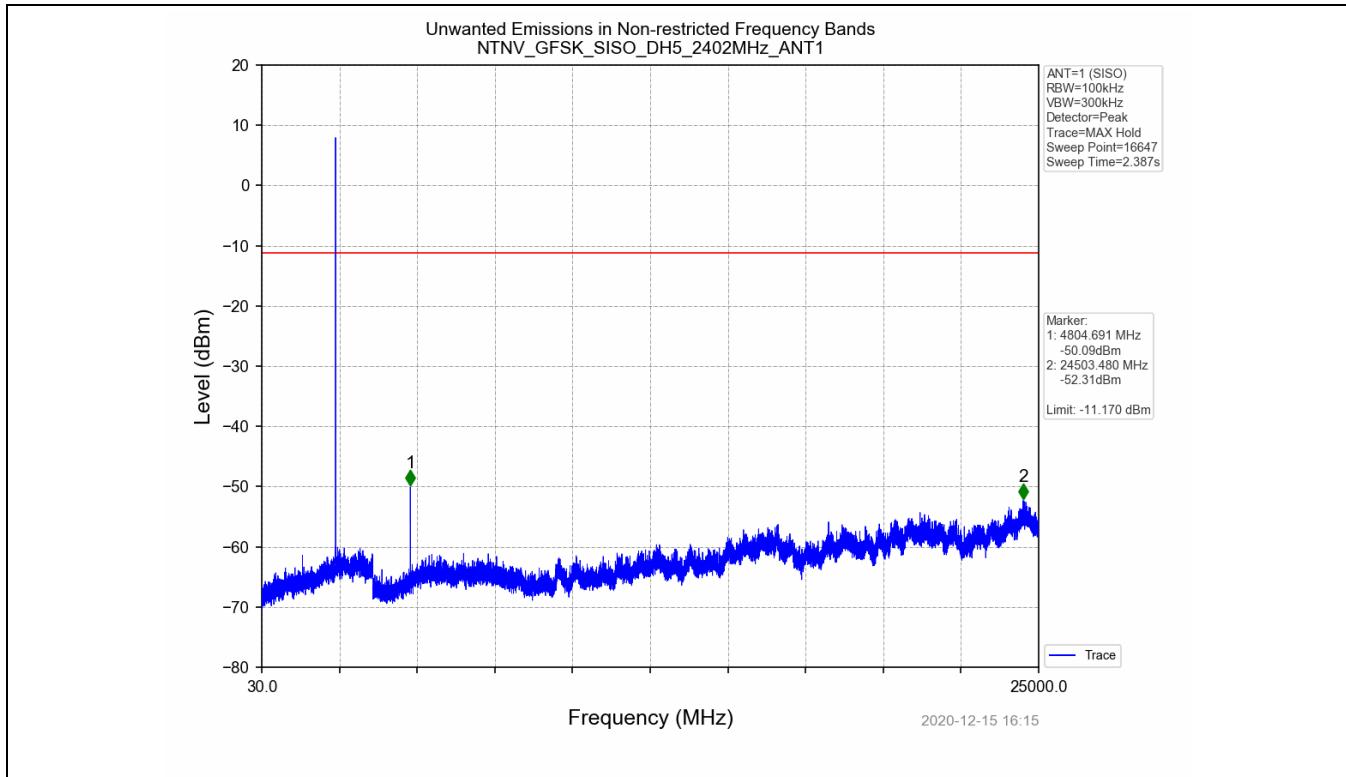
6.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
GFSK	2402	SISO	1	Refer to test graph	-11.17	PASS
	2441	SISO	1	Refer to test graph	-11.17	PASS
	2480	SISO	1	Refer to test graph	-11.17	PASS
	Hopping	SISO	1	Refer to test graph	-11.17	PASS
Pi/4DQPSK	2402	SISO	1	Refer to test graph	-12.11	PASS
	2441	SISO	1	Refer to test graph	-12.11	PASS
	2480	SISO	1	Refer to test graph	-12.11	PASS
	Hopping	SISO	1	Refer to test graph	-12.11	PASS
8DPSK	2402	SISO	1	Refer to test graph	-12.19	PASS
	2441	SISO	1	Refer to test graph	-12.19	PASS
	2480	SISO	1	Refer to test graph	-12.19	PASS
	Hopping	SISO	1	Refer to test graph	-12.19	PASS

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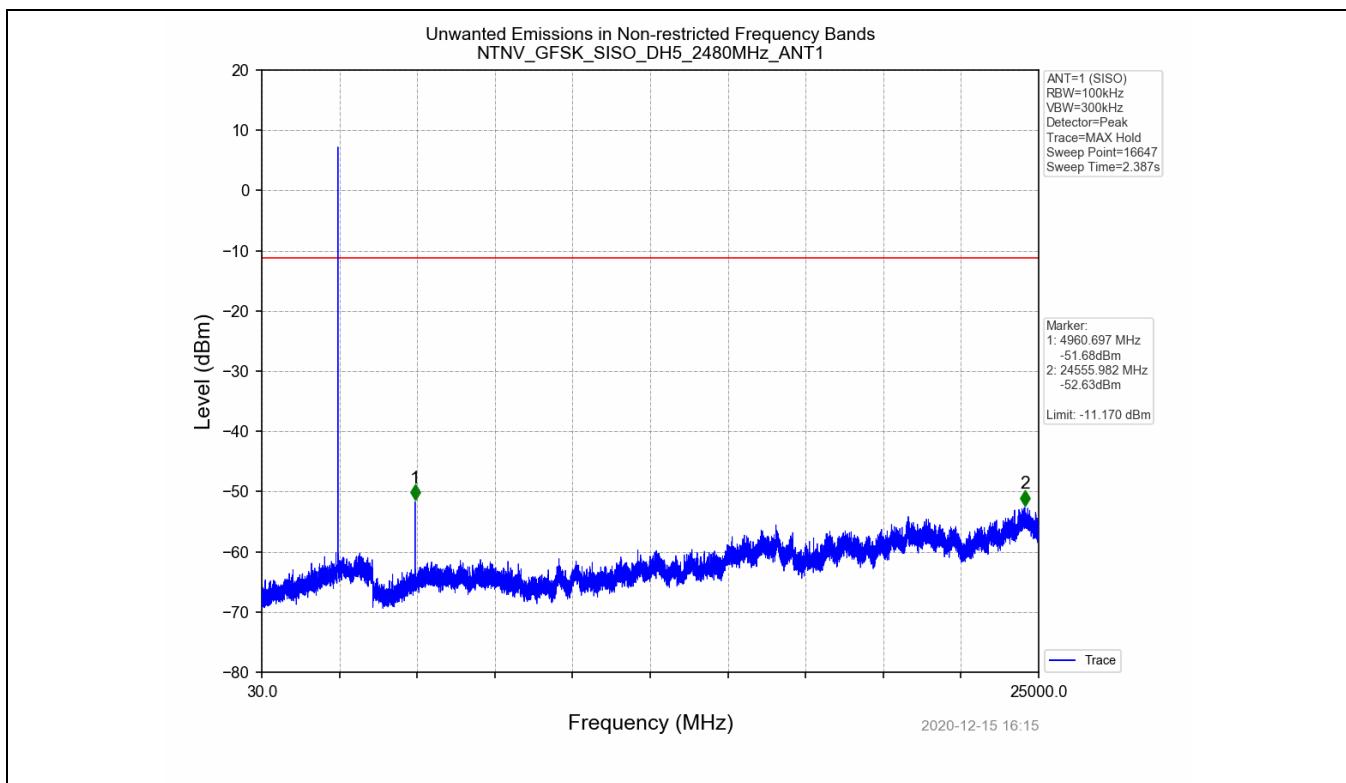
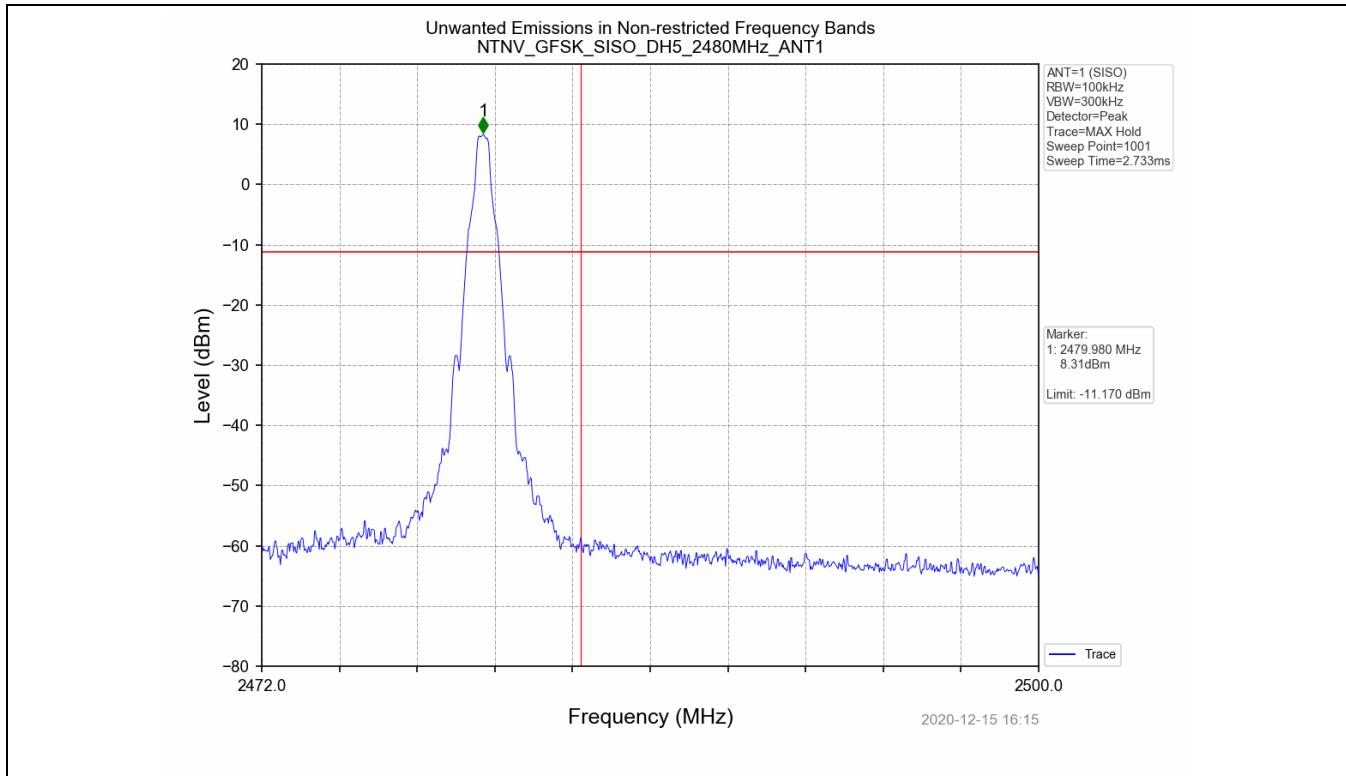
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6.2 Test Graph



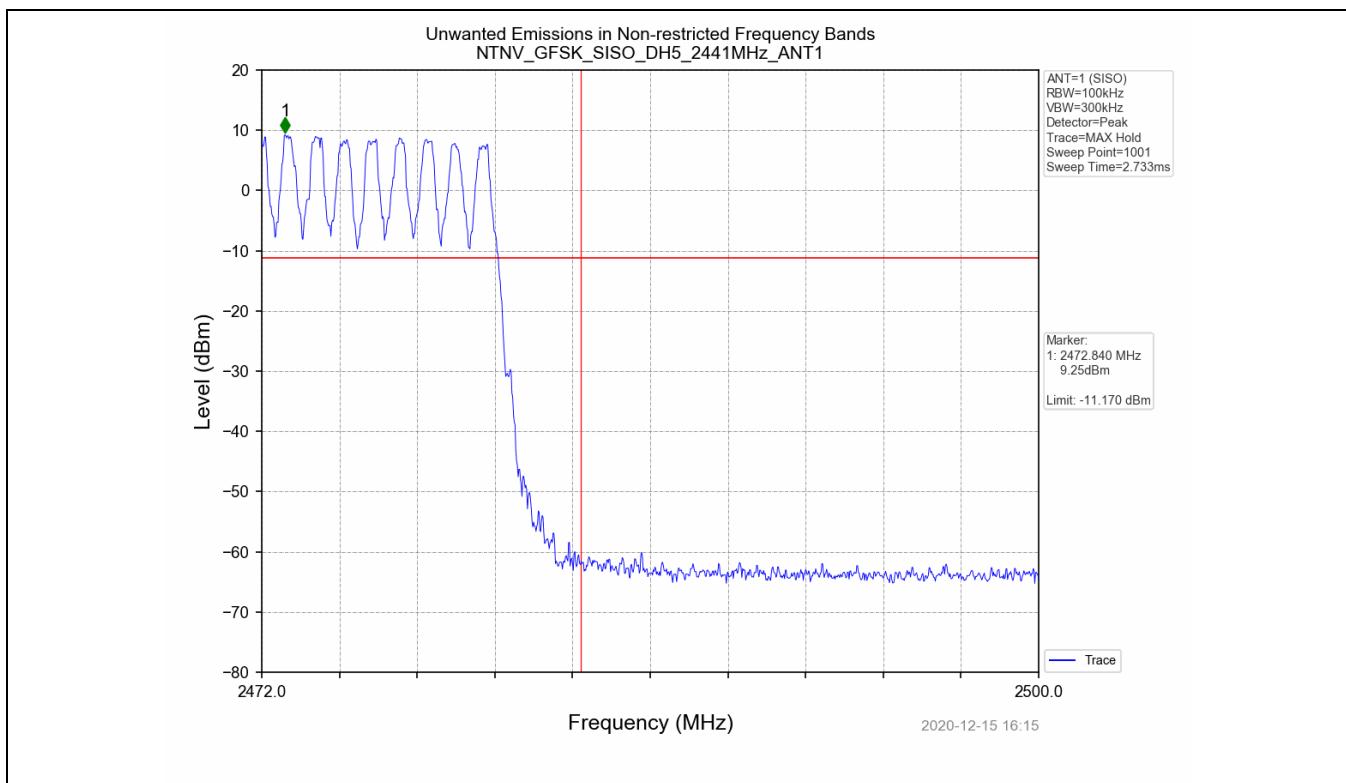
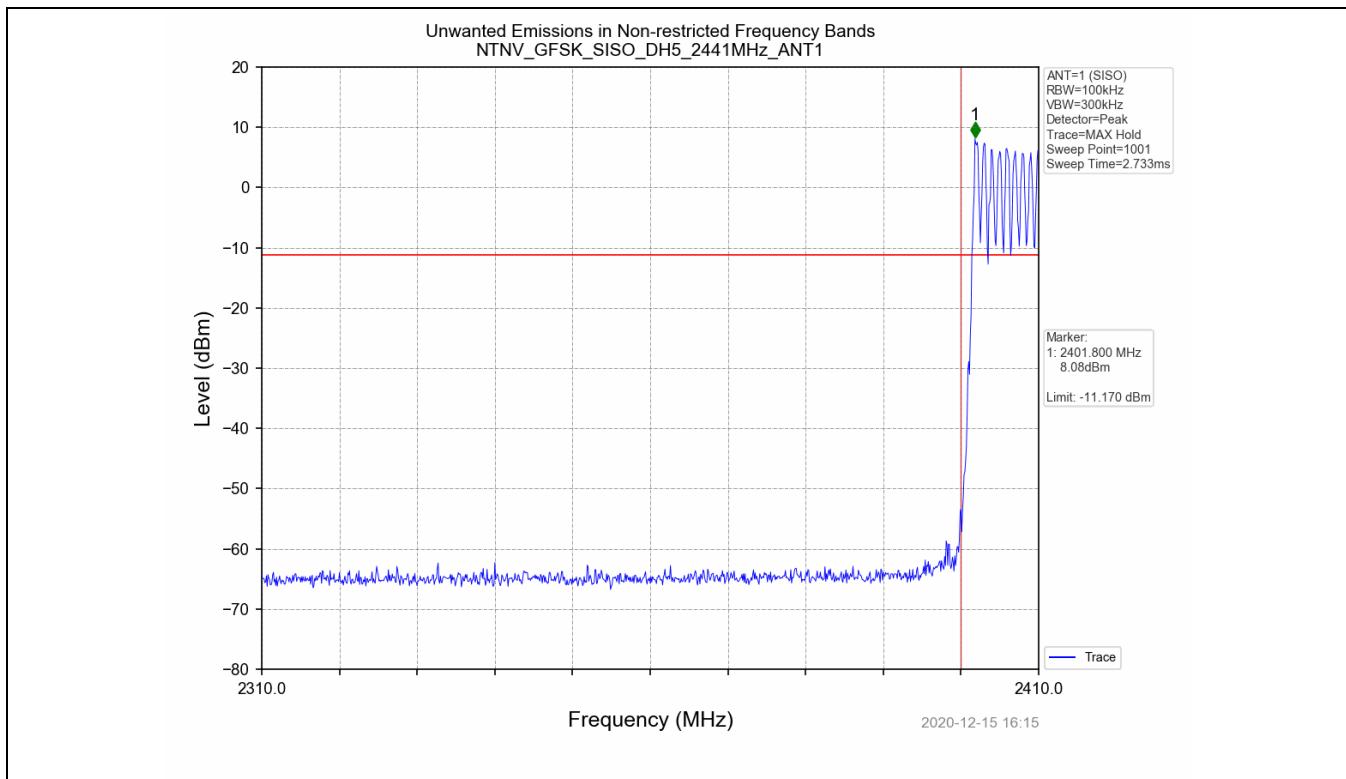
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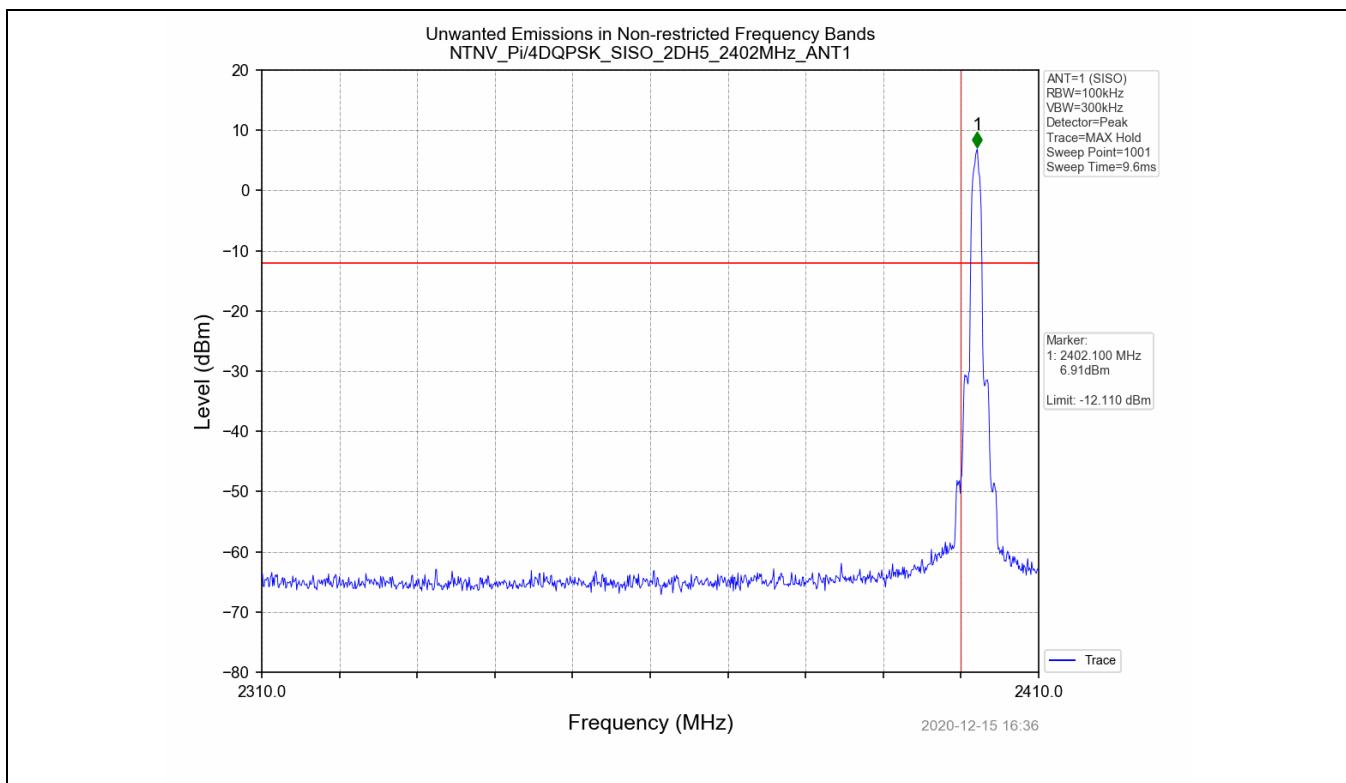
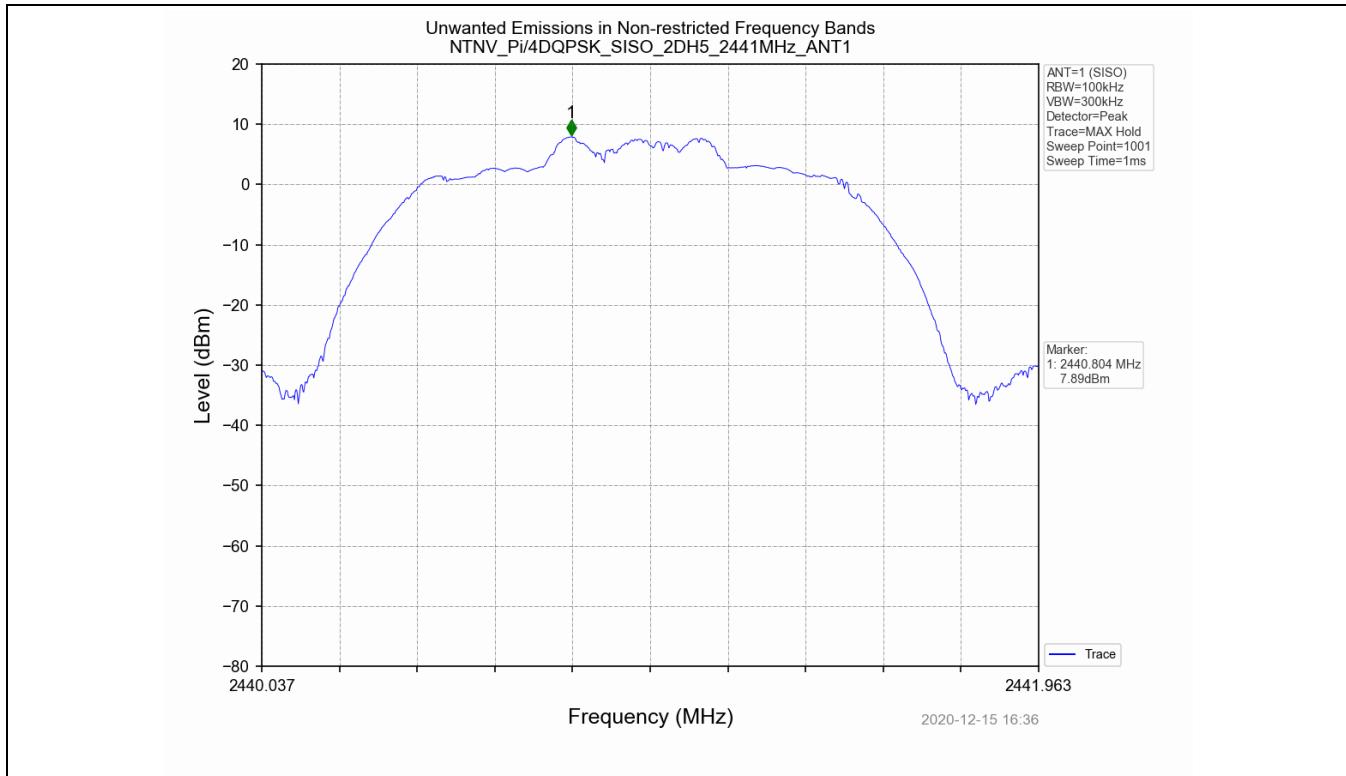
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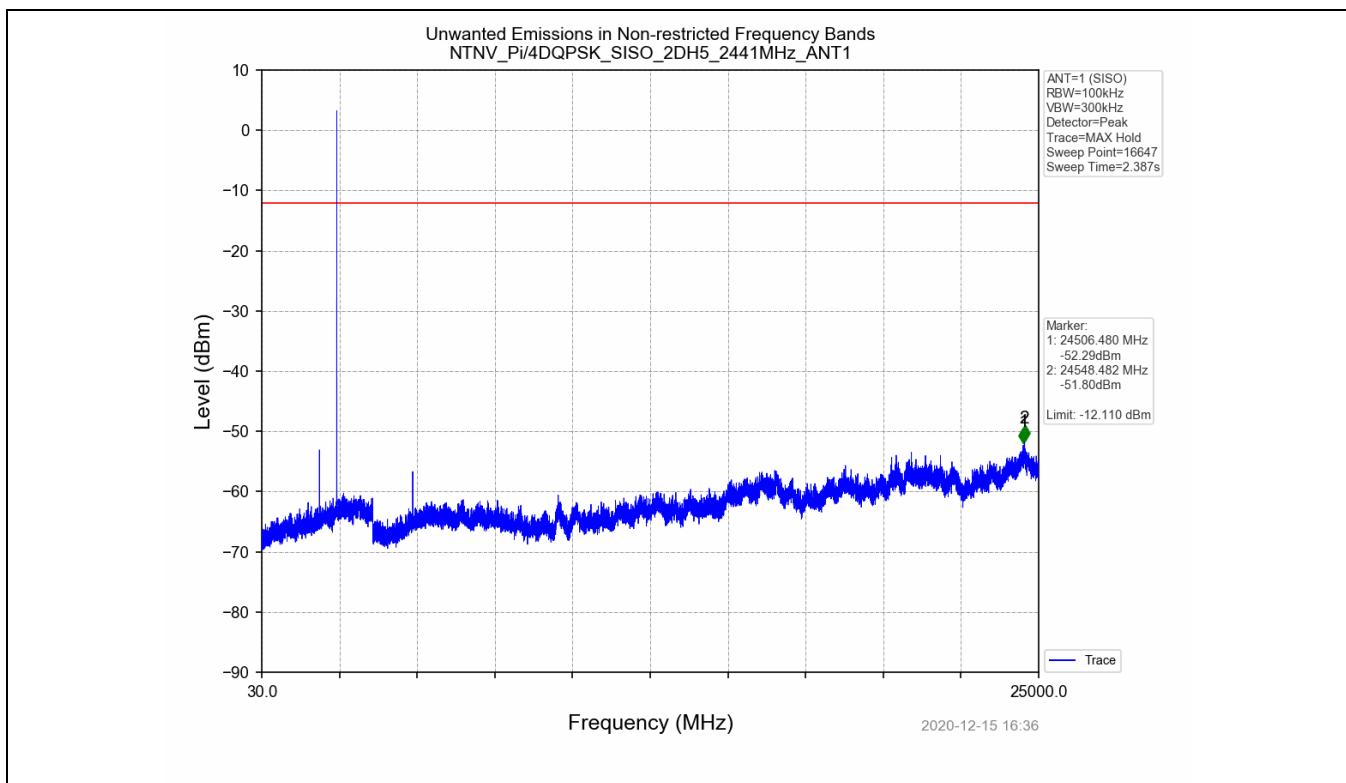
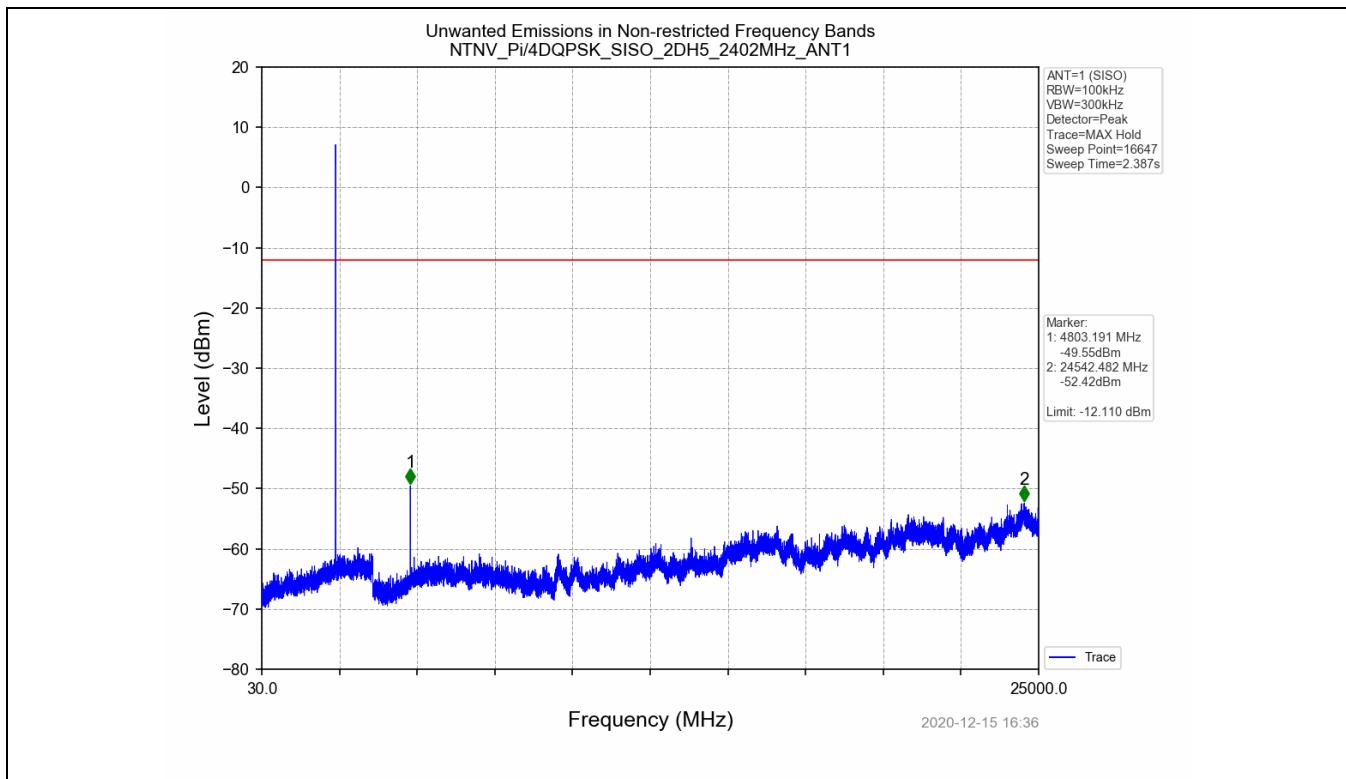
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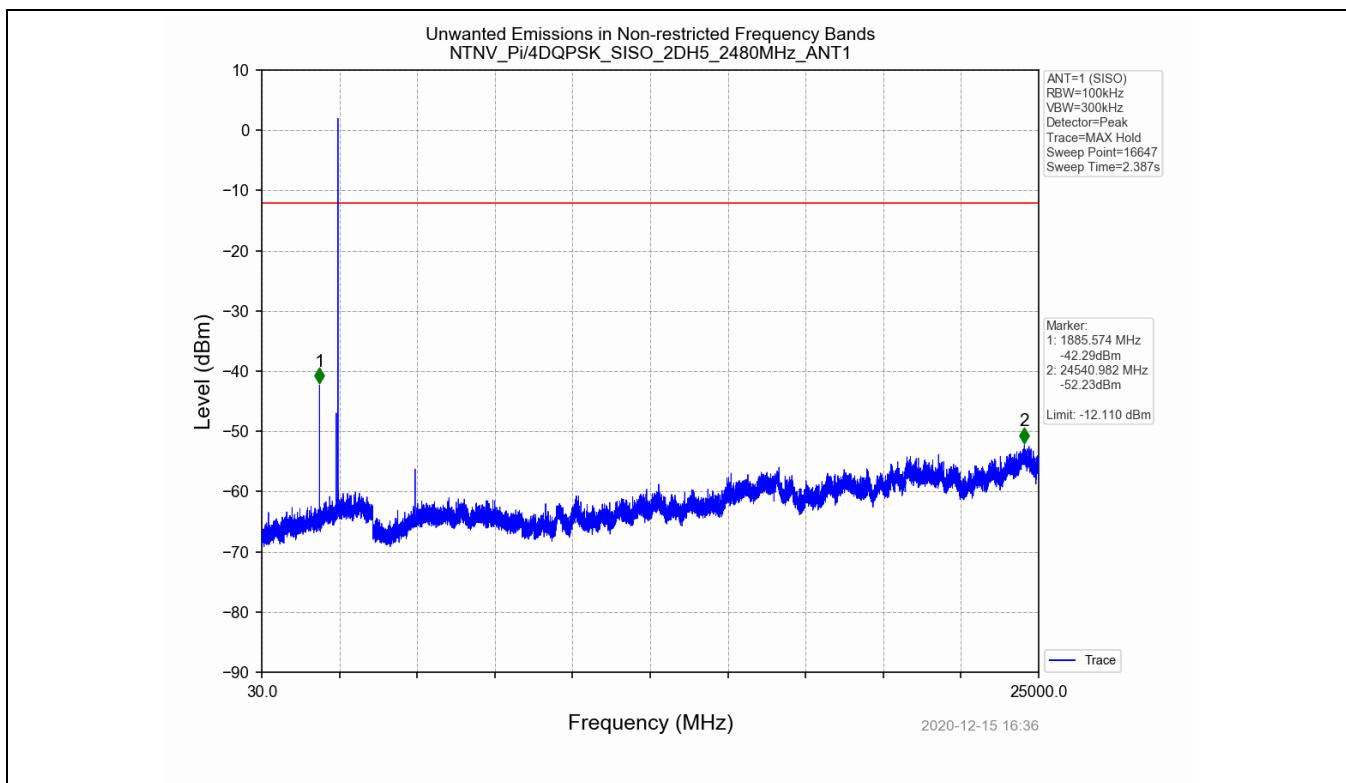
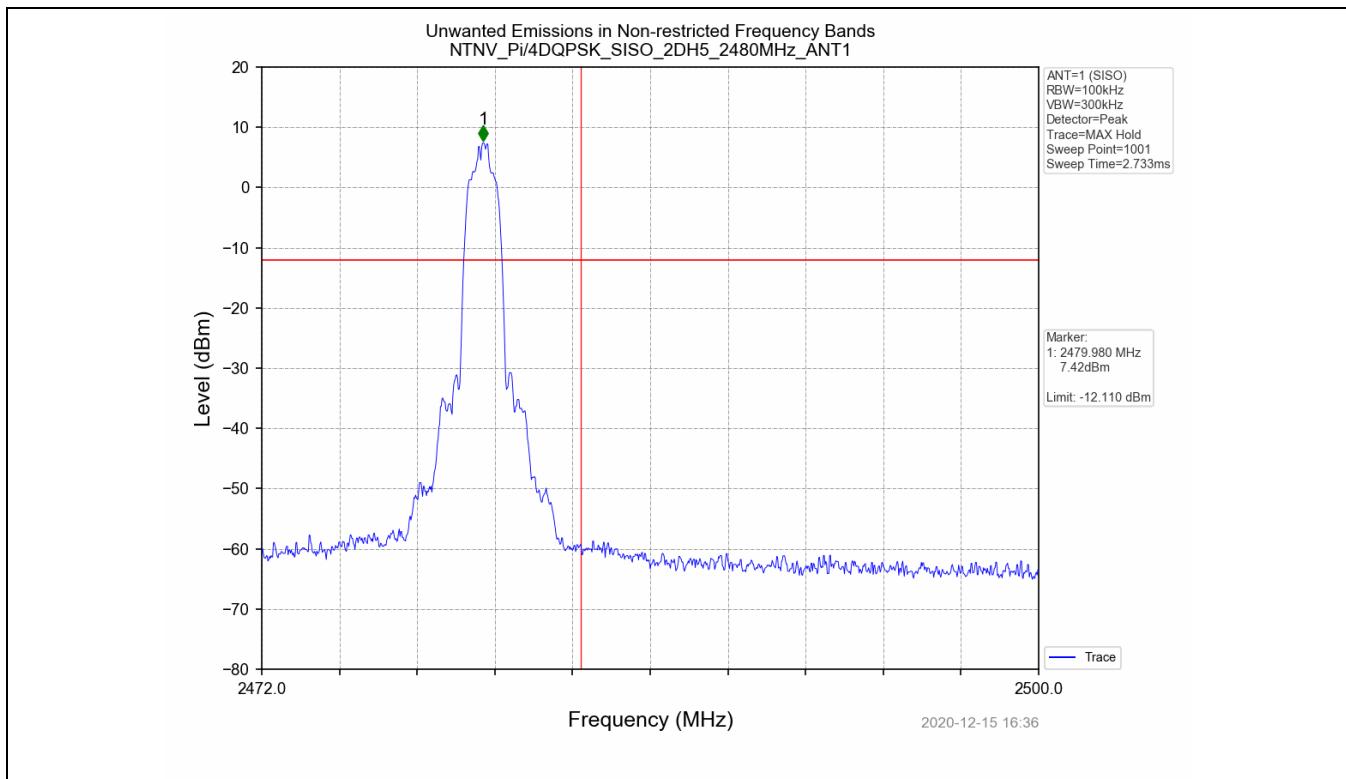
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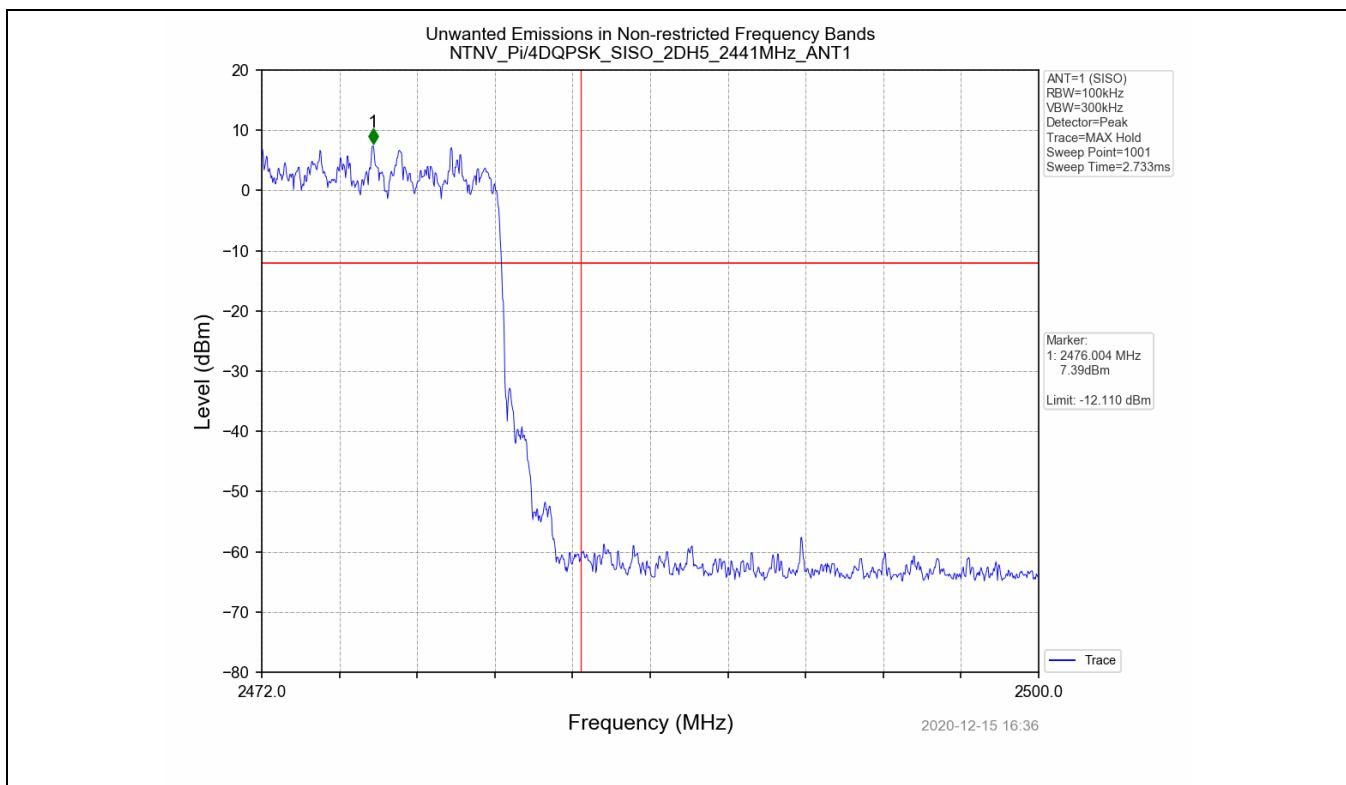
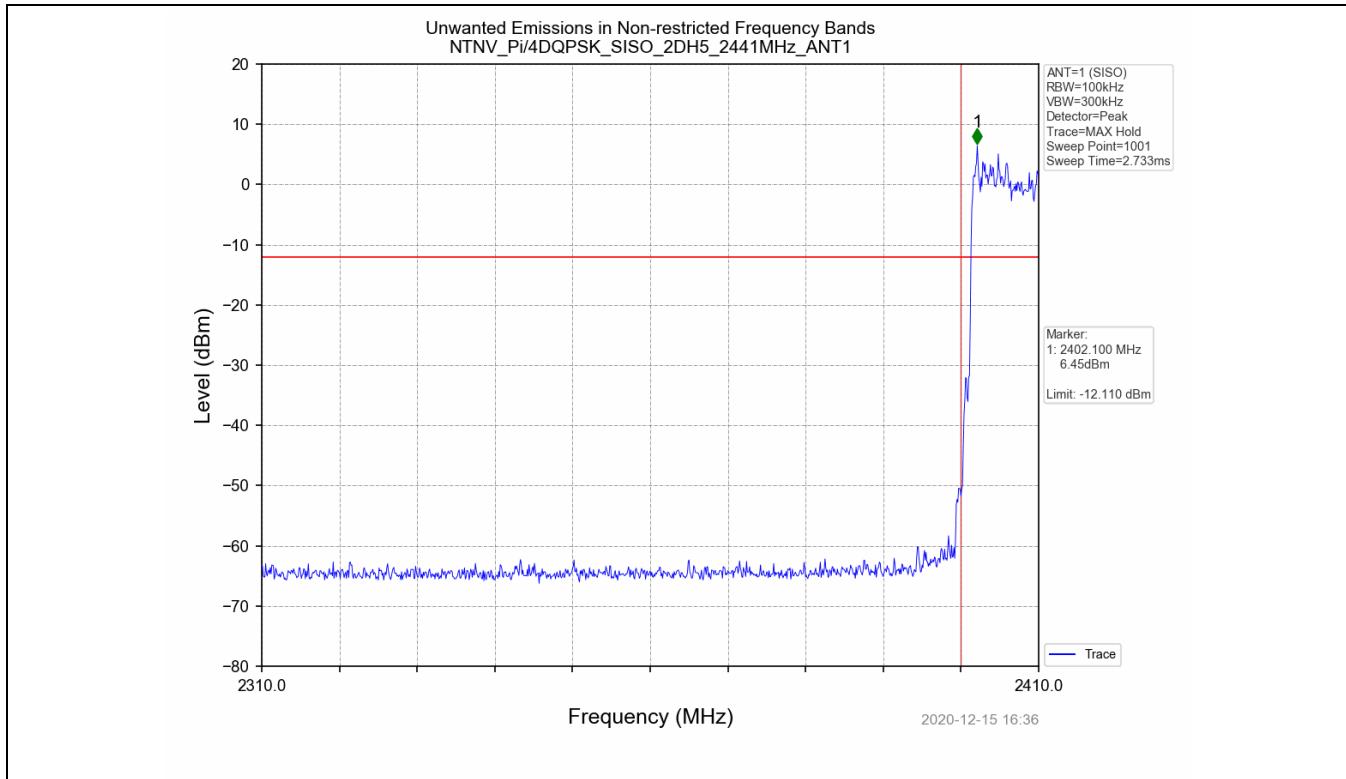
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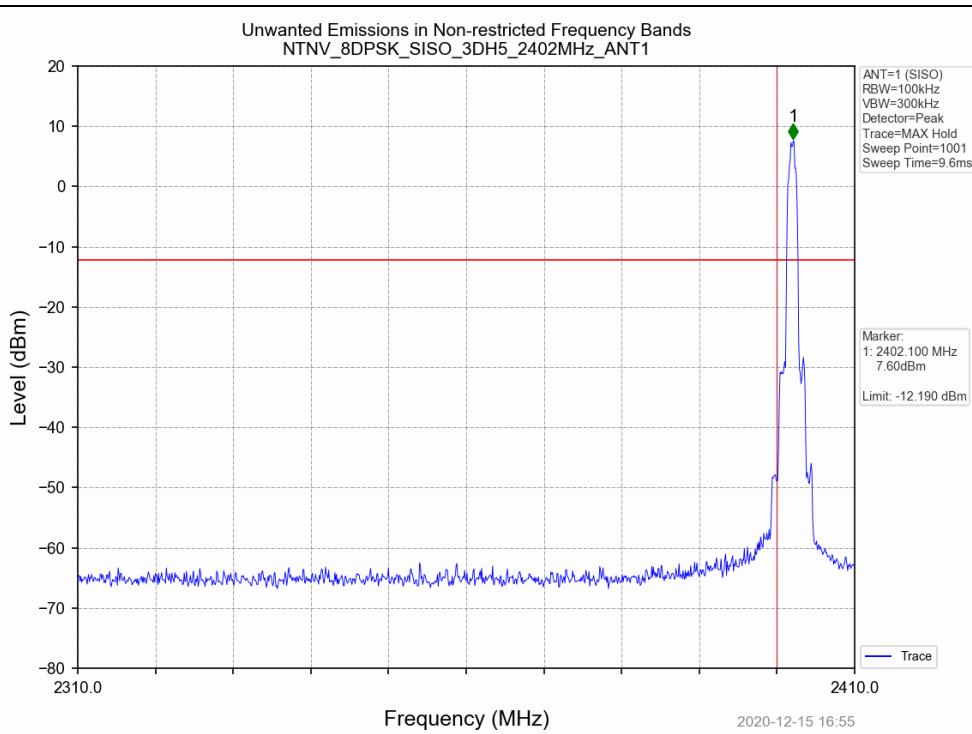
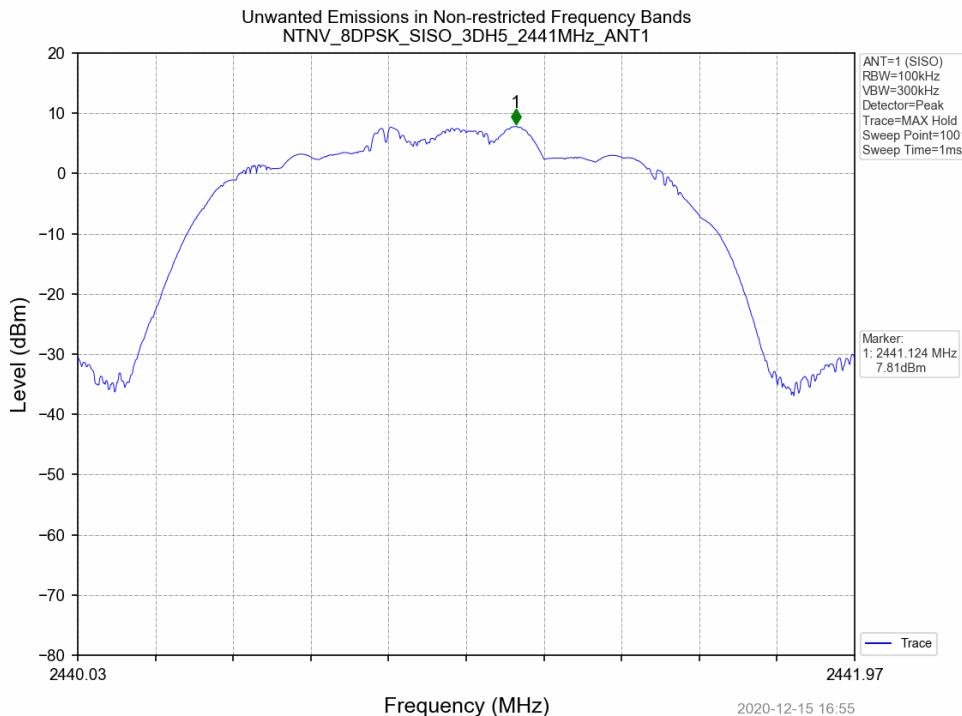
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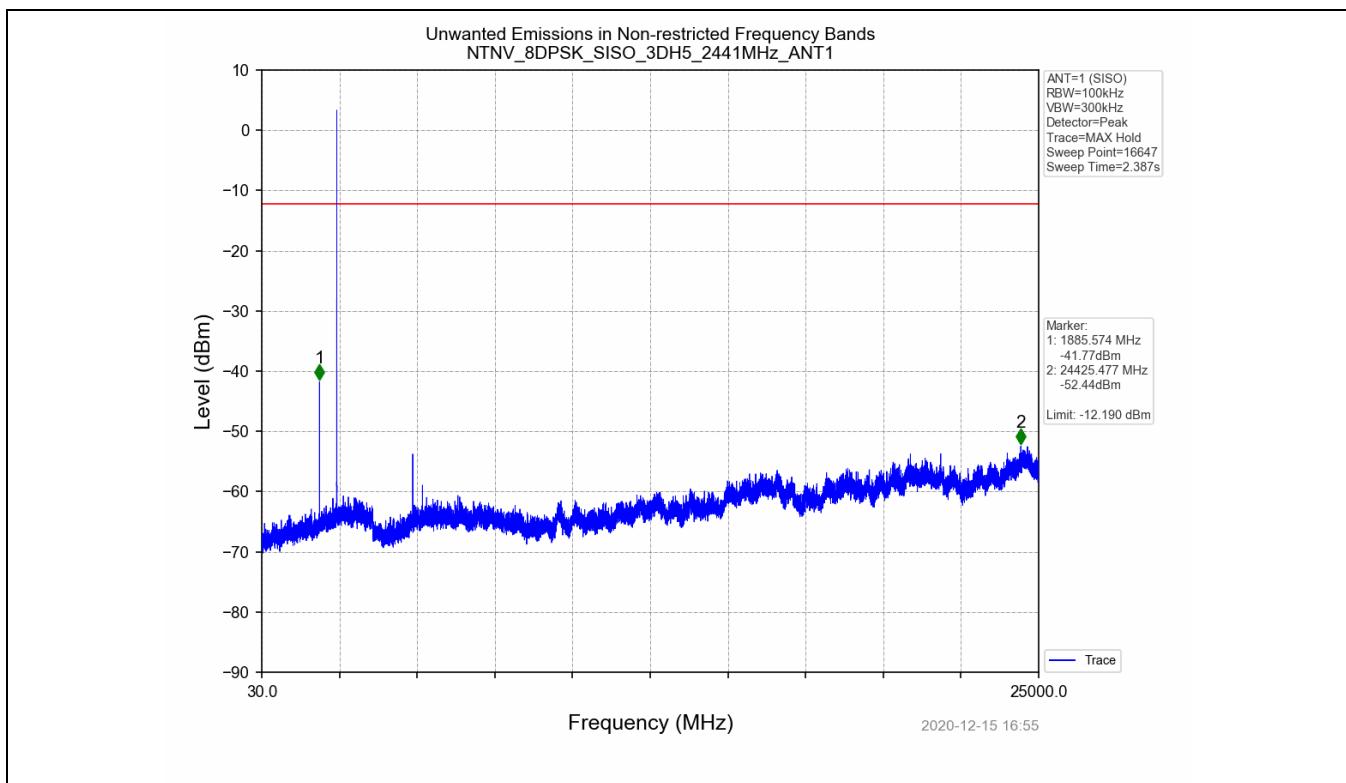
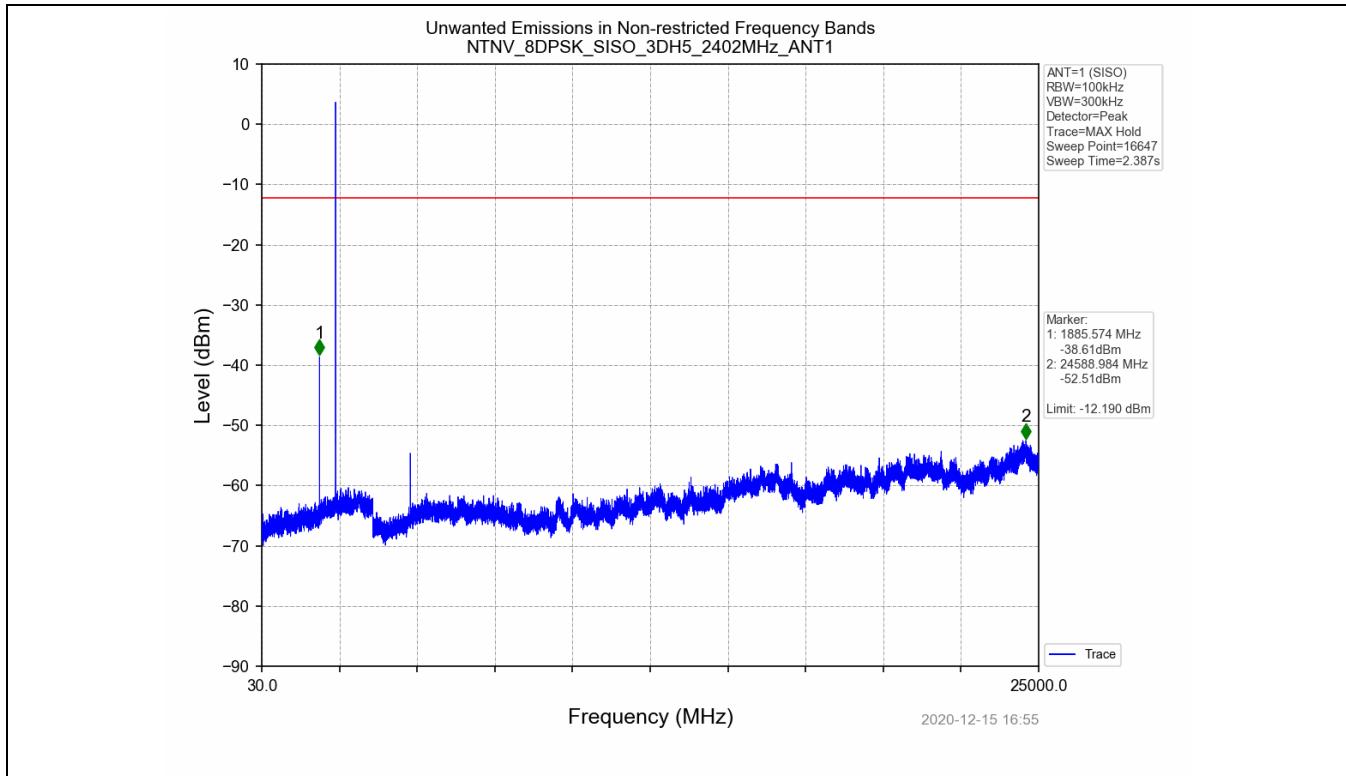
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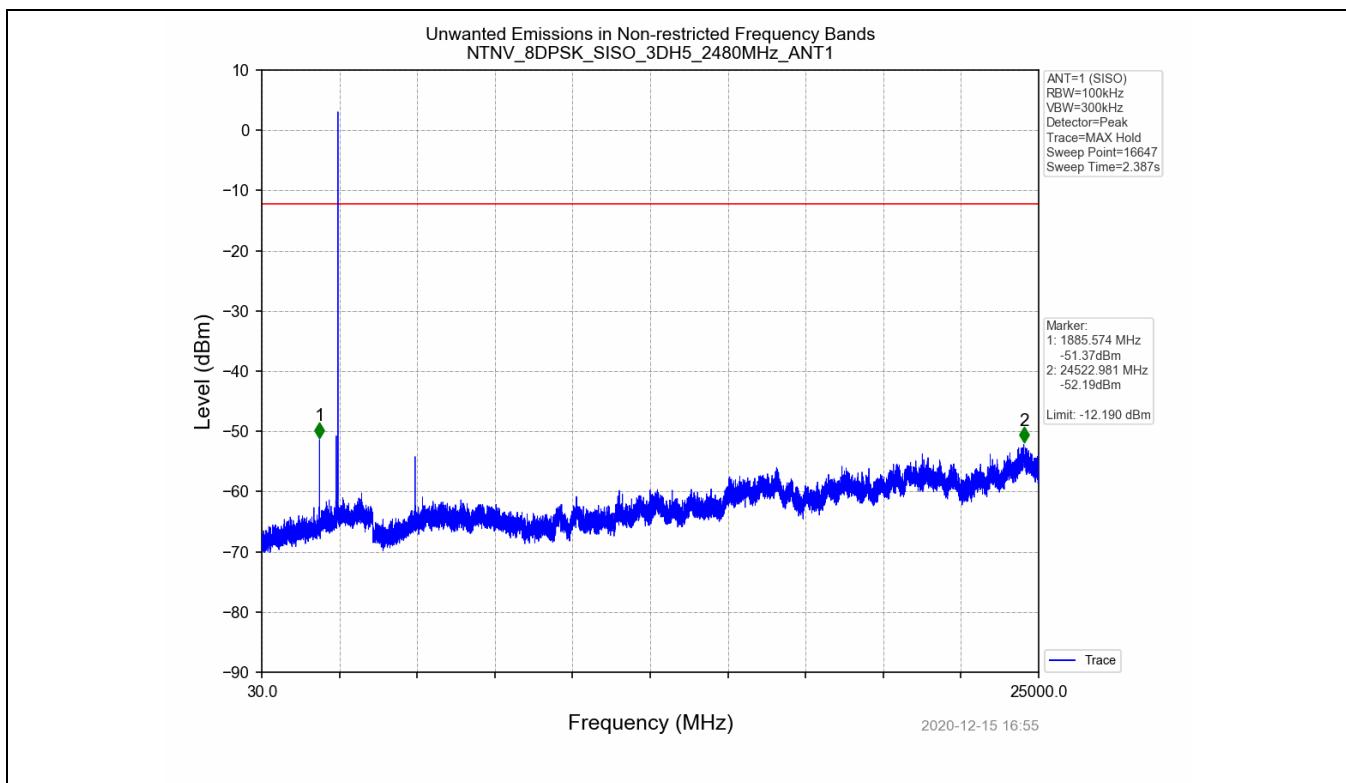
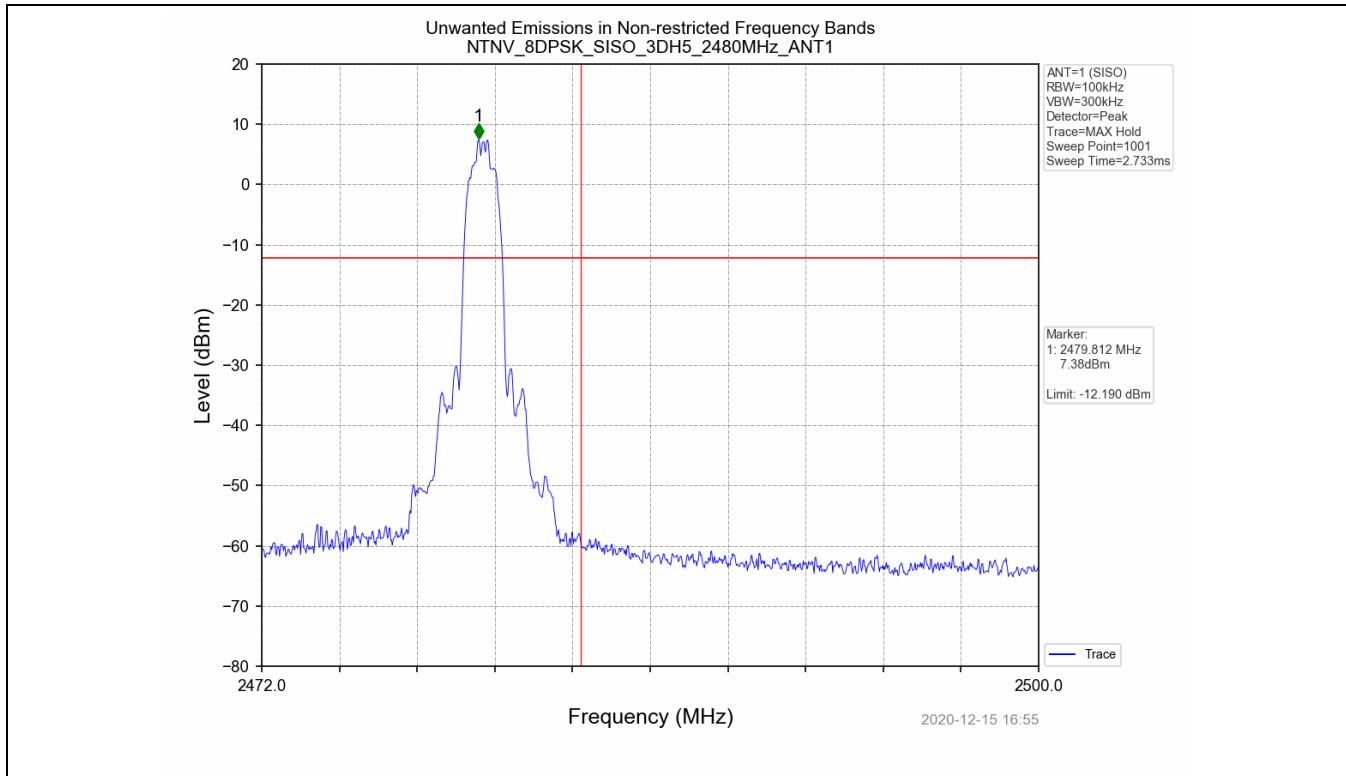
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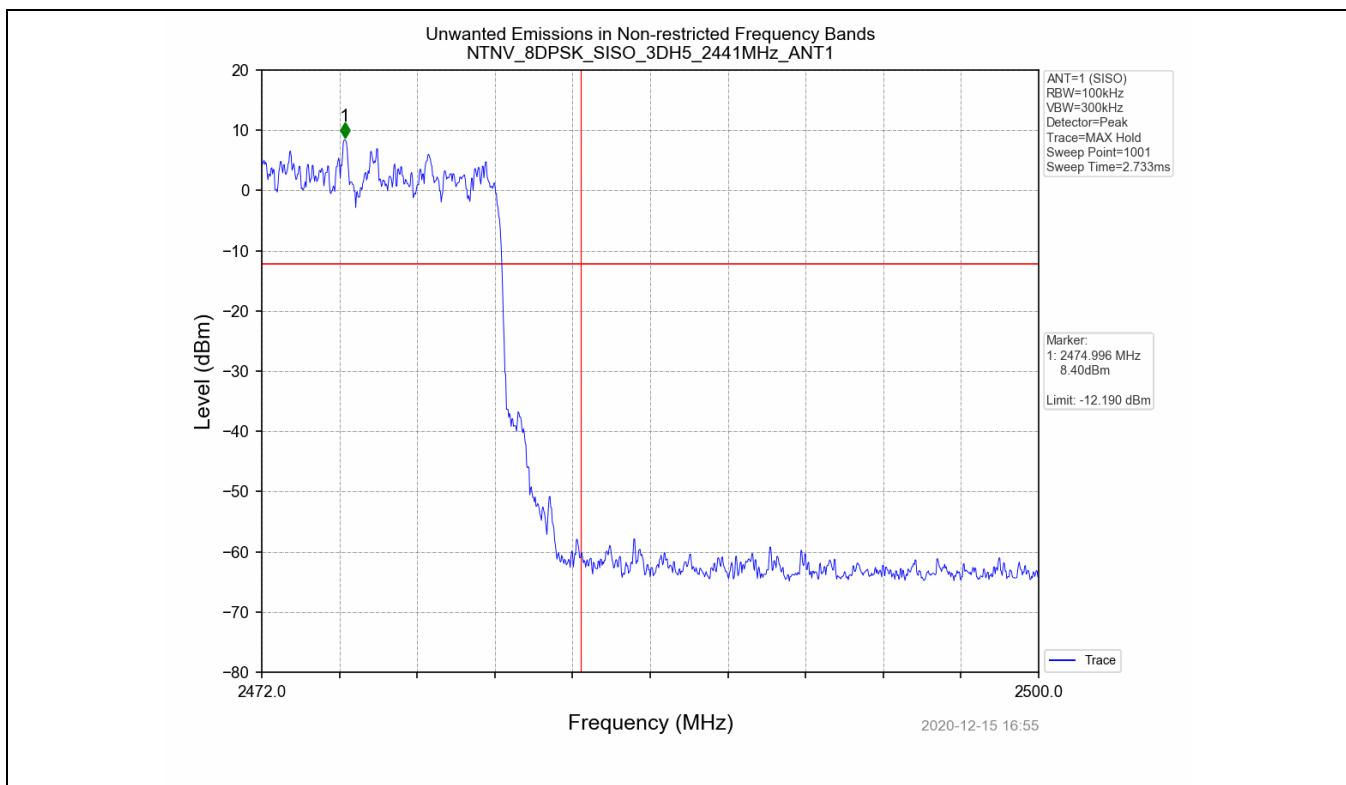
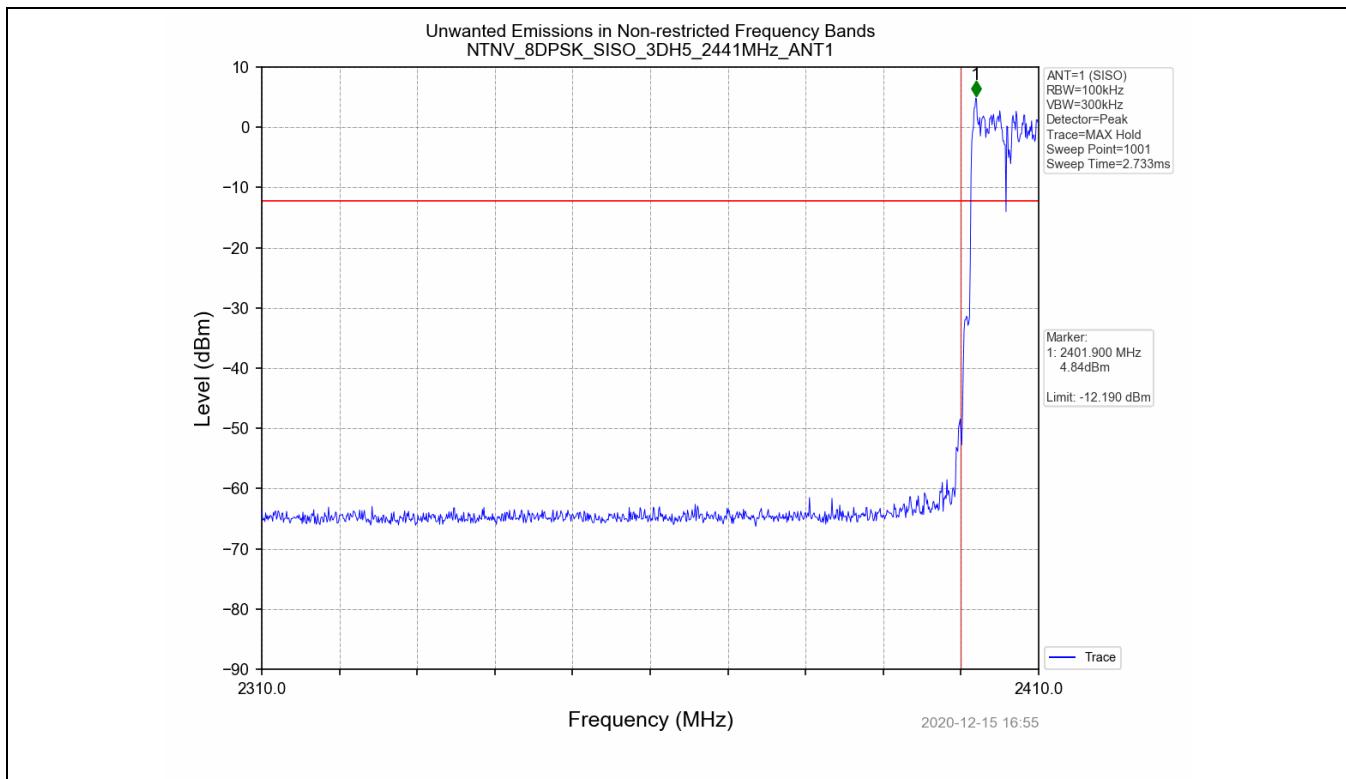




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- End of the Report -



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