

Report No.: SZEM201101218903
Page: 1 of 74

TEST REPORT

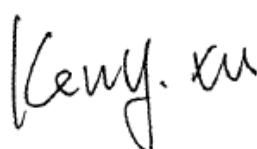
Application No.: SZEM2011012189CR
Applicant: Jwipc Technology Co., Ltd.
Address of Applicant: 13/F, Building B, Haisong Edifice, Tairan 9th Road, Futian District, Shenzhen, China
Manufacturer: Jwipc Technology Co., Ltd.
Address of Manufacturer: 13/F, Building B, Haisong Edifice, Tairan 9th Road, Futian District, Shenzhen, China
Factory: Dongguan Scd Technology Co., Ltd.
Address of Factory: No.1 The 2nd Street, Huihuang Industrial Zone, Xiekeng Village, Qingxi Town, Dongguan, 523000 Guangdong, China

Equipment Under Test (EUT):

EUT Name: OPS PC MODULE
Model No.: H064, S064, TEY21*, S0*****, TEY21*-***** (*=A-Z, 0-9, character or blank) ♣
♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
FCC ID: 2AYLN-S064
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2020-11-27
Date of Test: 2020-12-04 to 2020-12-21
Date of Issue: 2020-12-26

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



Keny. Xu
EMC Laboratory Manager



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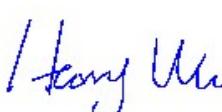
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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2020-12-26		Original

Authorized for issue by:			
		 _____ Harry Wu/Project Engineer	
		 _____ Eric Fu/Reviewer	

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2 Test Summary

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

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Minimum 6dB Bandwidth	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Power Spectrum Density	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.13.3.2	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 11.11	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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Declaration of EUT Family Grouping:

Model No.: H064, S064, TEY21*, S0*****, TEY21*-***** (*=A-Z, 0-9, character or blank)

Only the model S064 was tested. According to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference on model No, memory capacity and hard disk capacity.

Object / part No.	Manufacturer/trademark	Type / model
PCB	CHUAN YI COMPUTER(SHENZHEN)CO LTD	Interchangeable
Alt.	Interchangeable	Interchangeable
Fan motor	Shenzhen Yongyihao Electronic Co., LTD.	YY6010L05B
Button Battery	Yichang POWER GLORY BATTERY TECH(HK)CO LTD	CR2032
CPU	INTEL	i5-10210U
CPU	INTEL	i3-10110U
CPU	INTEL	i7-10510U
Memory	Kingston	DDR4-SODIMM
Alt.	Samsung	DDR4-SODIMM
Alt.	Foresee	DDR4-SODIMM
Alt.	TIGO	DDR4-SODIMM
SSD	Kingston	SSD
Alt.	Samsung	SSD
Alt.	Phison	SSD
Alt.	Foresee	SSD

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4 General Information

4.1 Details of E.U.T.

Rated voltage:	Input:DC19.0V, 4.74A
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.0 BLE
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Data Rate:	1Mb/s, 2Mb/s
Antenna Type:	Dipole Antenna
Antenna Gain:	Antenna 1&2: 5dBi

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
AC/DC Adapter	FUJIA	FJ-SW20171205000	--

4.3 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
Minimum 6dB Bandwidth	± 3%
Power Spectrum Density	± 2.84dB
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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4.4 Test Location

All tests were performed at:

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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 Emissions at Mains Terminals (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2019-06-13	2022-06-12
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2020-03-24	2021-03-23
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2020-07-10	2021-07-09
LISN	Rohde&Schwarz	ENV216	SEM007-01	2020-09-23	2021-09-22
LISN	ETS-LINDGREN	3816/2	SEM007-02	2020-04-01	2021-03-31

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	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

Minimum 6dB 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	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

Power Spectrum Density					
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

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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

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

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

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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 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
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020-04-01	2021-03-31

Radiated Spurious 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
MXE EMI Receiver	Agilent Technologies	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
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

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

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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)

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 antennas dipole Antennas. The best case gain of the antennas are 5dBi.

Antenna location: Refer to External photos.



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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)(3)

Test Method: ANSI C63.10 (2013) Section 11.9.1

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: 26.5 °C Humidity: 50.2 % RH Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mb/s)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	03	TX mode(2Mb/s)_Keep the EUT in continuously transmitting mode with GFSK modulation.

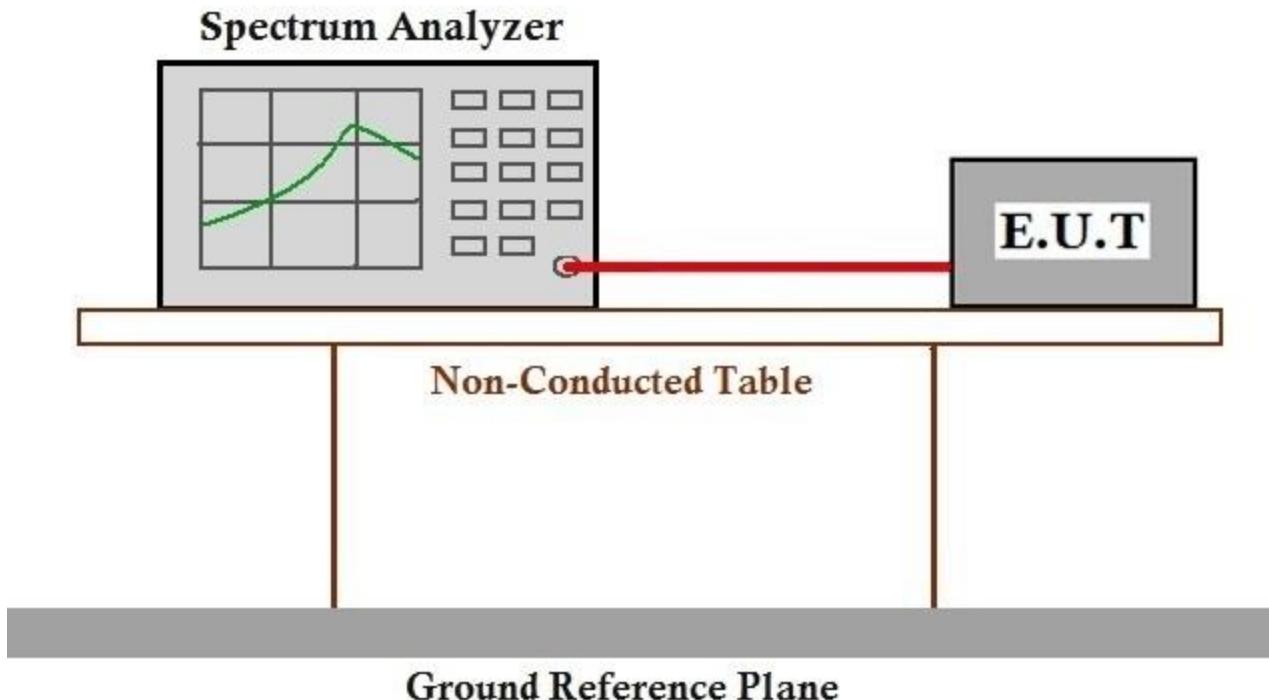
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7.1.3 Test Setup Diagram**7.1.4 Measurement Procedure and Data**

Please Refer To Appendix For Details



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7.2 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)
Test Method: ANSI C63.10 (2013) Section 11.8.1
Limit: ≥500 kHz

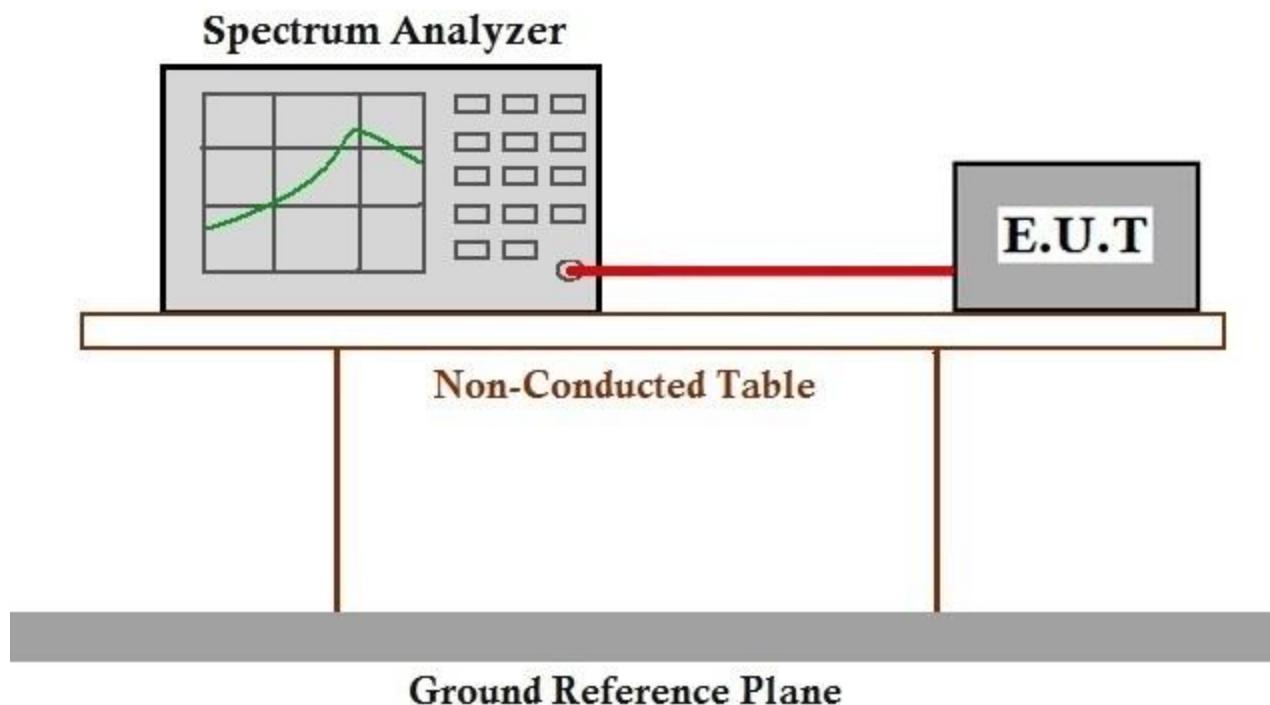
7.2.1 E.U.T. Operation

Operating Environment:
Temperature: 26.5 °C Humidity: 50.3 % RH Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mb/s)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	03	TX mode(2Mb/s)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data



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7.3 Power Spectrum Density

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

Test Method: ANSI C63.10 (2013) Section 11.10.2

Limit:

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

7.3.1 E.U.T. Operation

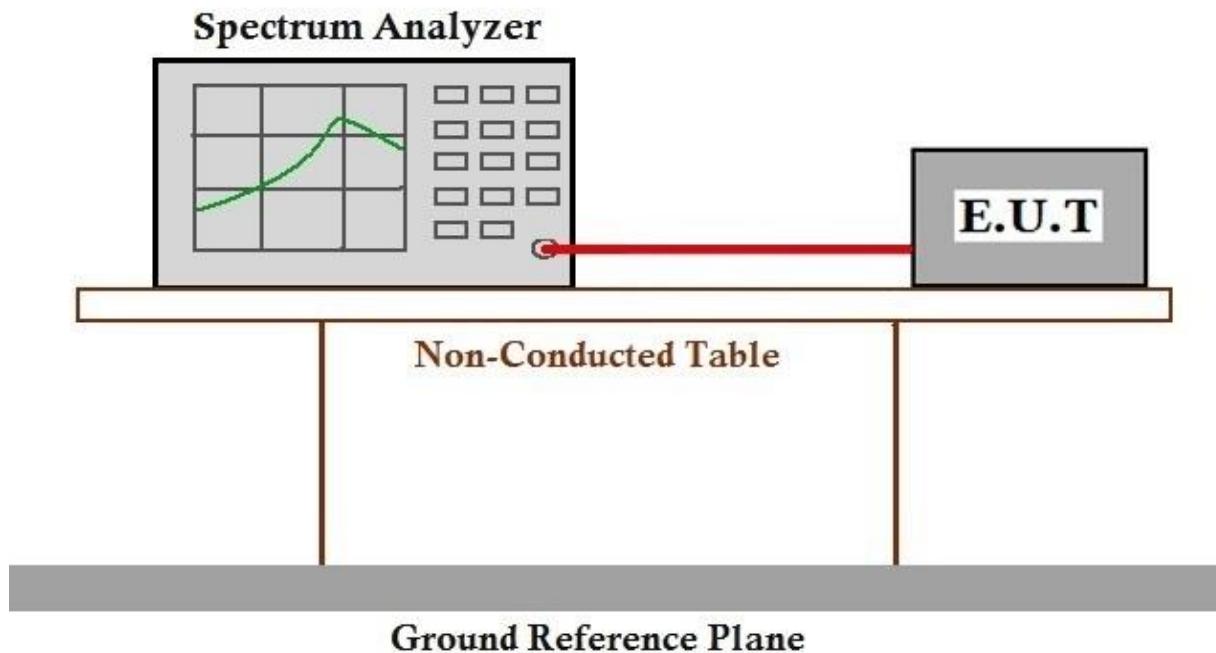
Operating Environment:

Temperature: 26.5 °C Humidity: 50.5 % RH Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mb/s)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	03	TX mode(2Mb/s)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data



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7.4 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
Test Method: ANSI C63.10 (2013) Section 11.13.3.2

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)).

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 26.5 °C Humidity: 50.5 % RH Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mb/s)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	03	TX mode(2Mb/s)_Keep the EUT in continuously transmitting mode with GFSK modulation.

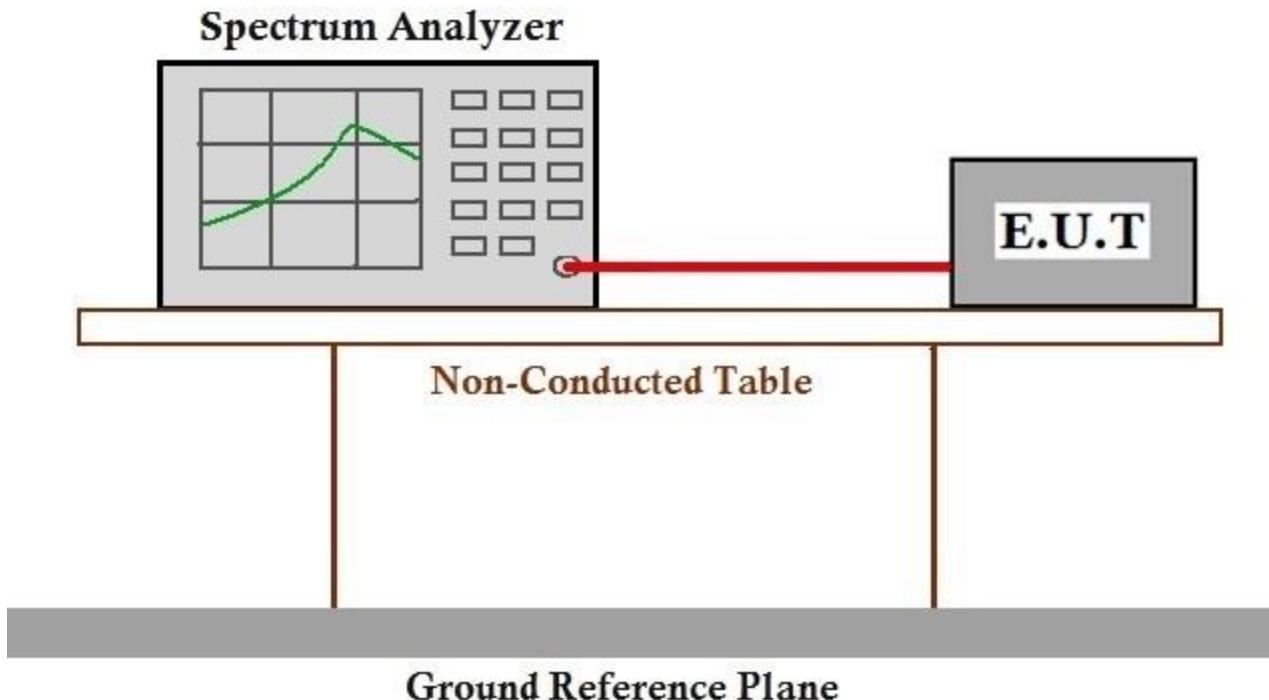


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7.4.3 Test Setup Diagram**7.4.4 Measurement Procedure and Data**

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7.5 Conducted Spurious Emissions

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

Test Method: ANSI C63.10 (2013) Section 11.11

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)).

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 26.5 °C Humidity: 50.6 % RH Atmospheric Pressure: 1010 mbar

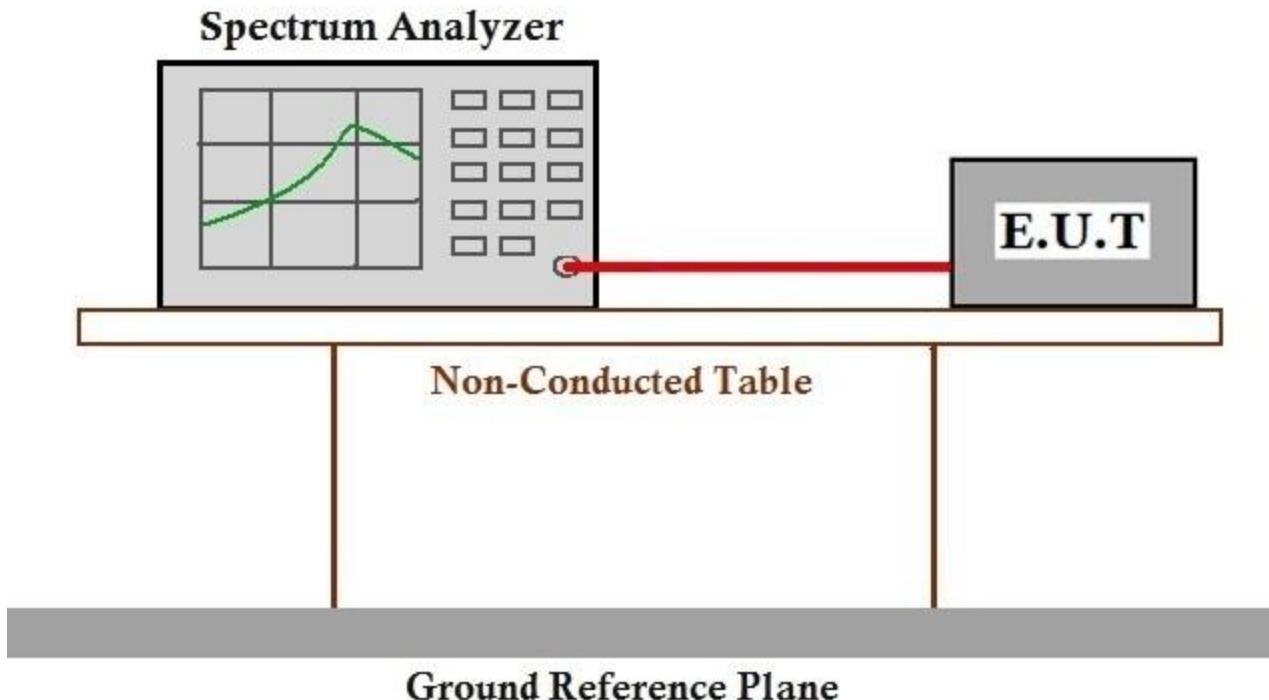
7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mb/s)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	03	TX mode(2Mb/s)_Keep the EUT in continuously transmitting mode with GFSK modulation.



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

Please Refer To Appendix For Details

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7.6 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.

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 22.9 °C

Humidity: 56.0 % RH

Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

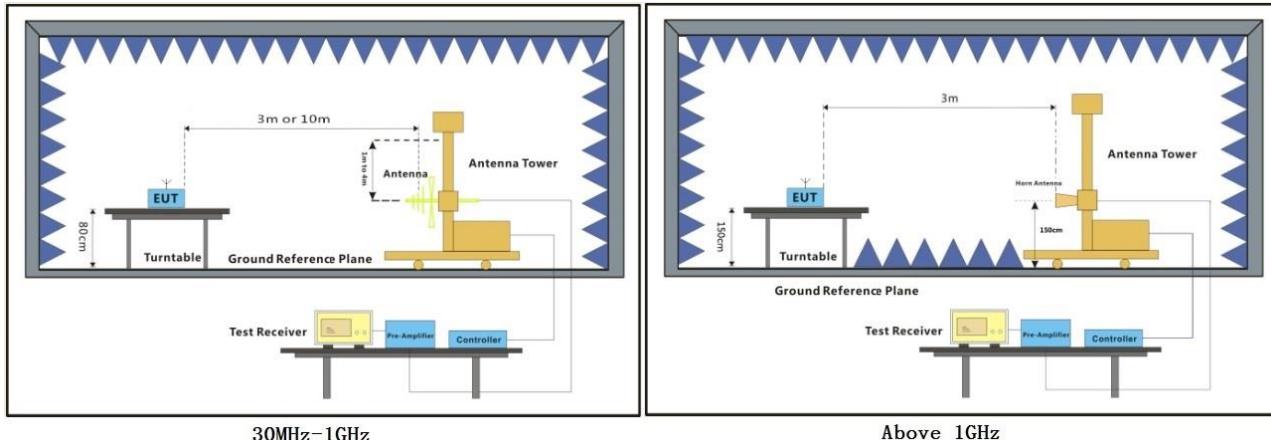
Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mb/s)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	03	TX mode(2Mb/s)_Keep the EUT in continuously transmitting mode with GFSK modulation.

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7.6.3 Test Setup Diagram**7.6.4 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

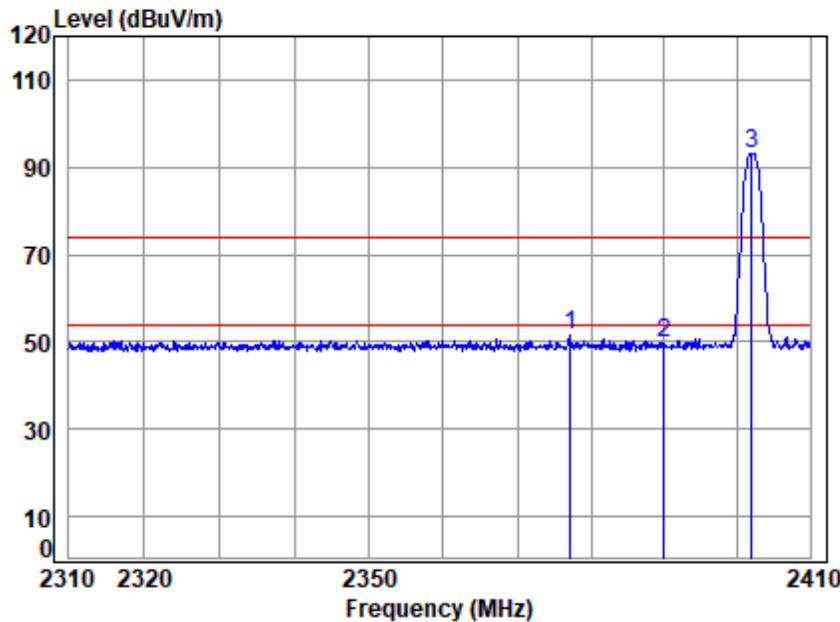
Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level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



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



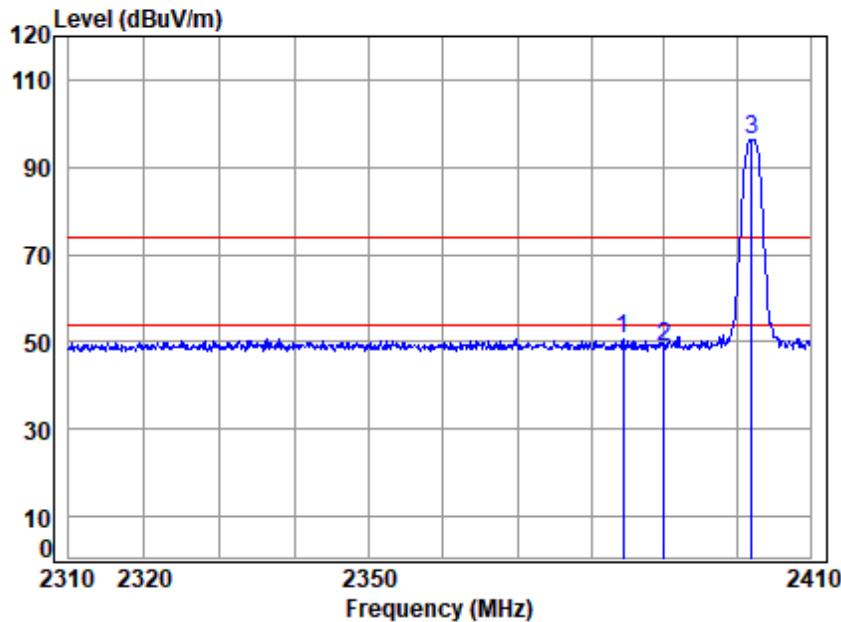
Site : chamber
Condition: 3m HORIZONTAL
Job No : 12189CR
Mode : 2402 Band edge
Note : BLE 1M

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1 2377.236	4.32	28.50	40.41	58.99	51.40	74.00	-22.60 peak
2 2390.000	4.34	28.52	40.42	57.13	49.57	74.00	-24.43 peak
3 * 2402.000	4.36	28.54	40.43	100.48	92.95	74.00	18.95 peak

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



Site : chamber

Condition: 3m VERTICAL

Job No : 12189CR

Mode : 2402 Band edge

Note : BLE 1M

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line Level	Over Limit	Over Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2384.399	4.34	28.51	40.42	58.16	50.59	74.00	-23.41 peak
2	2390.000	4.34	28.52	40.42	56.40	48.84	74.00	-25.16 peak
3 *	2402.000	4.36	28.54	40.43	103.72	96.19	74.00	22.19 peak

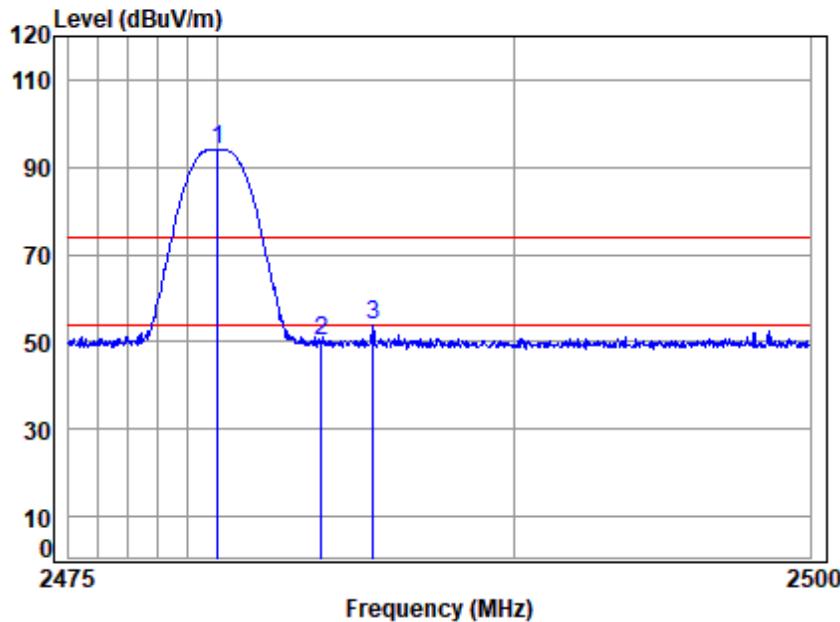
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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 12189CR
Mode : 2480 Band edge
Note : BLE 1M

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	101.30	93.99	74.00	19.99 peak
2 2483.500	4.49	28.67	40.47	57.66	50.35	74.00	-23.65 peak
3 2485.245	4.50	28.68	40.47	61.25	53.96	74.00	-20.04 peak

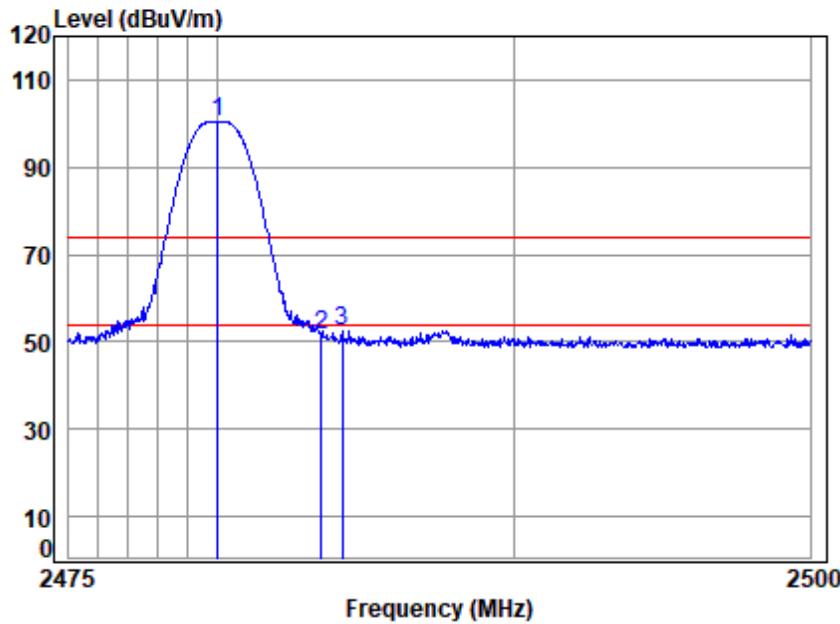
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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 12189CR

Mode : 2480 Band edge

Note : BLE 1M

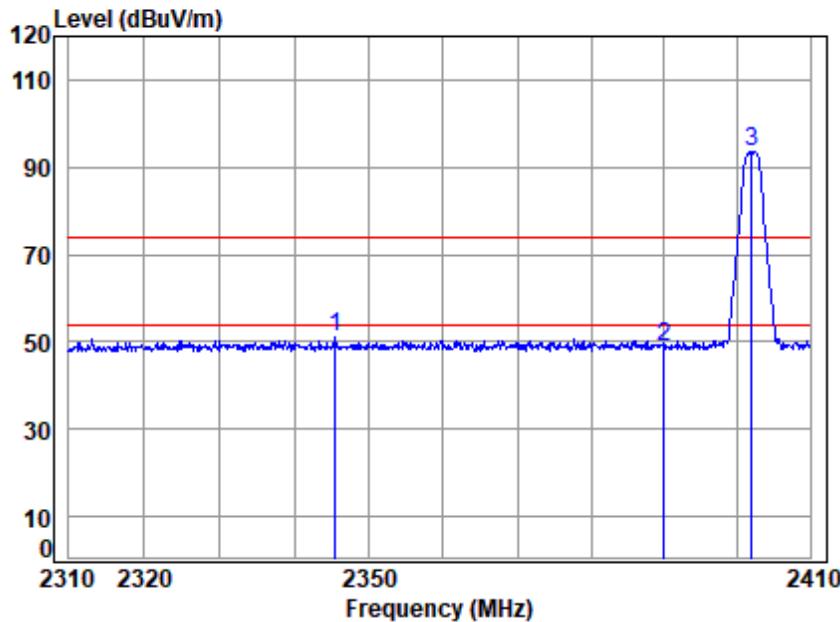
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m		dB	dBuV	dBuV/m	dB
1 * 2480.000	4.49	28.67	40.47	107.74	100.43	74.00	26.43 peak
2 2483.500	4.49	28.67	40.47	59.07	51.76	74.00	-22.24 peak
3 2484.196	4.50	28.67	40.47	59.74	52.44	74.00	-21.56 peak



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Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 12189CR
Mode : 2402 Band edge
Note : BLE 2M

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
				dB	dBuV	dBuV/m	dBuV/m	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 2345.413	4.27	28.44	40.40	58.57	50.88	74.00	-23.12	peak
2 2390.000	4.34	28.52	40.42	56.53	48.97	74.00	-25.03	peak
3 * 2402.000	4.36	28.54	40.43	100.94	93.41	74.00	19.41	peak

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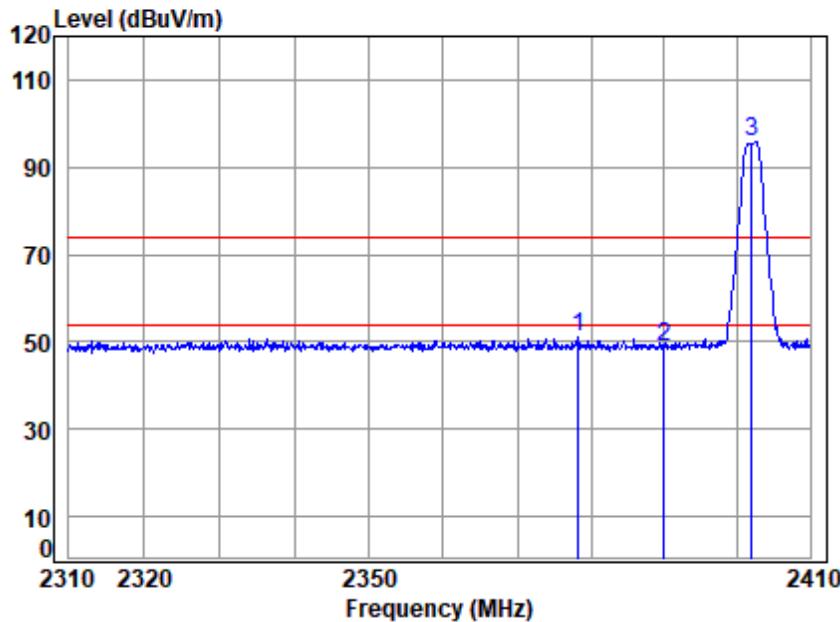
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Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 12189CR

Mode : 2402 Band edge

Note : BLE 2M

		Cable Freq	Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Level	Over Limit	Over Remark
		MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	dB
1	2378.243	4.33	28.50	40.41	58.67	51.09	74.00	74.00	-22.91	peak
2	2390.000	4.34	28.52	40.42	56.60	49.04	74.00	74.00	-24.96	peak
3 *	2402.000	4.36	28.54	40.43	103.30	95.77	74.00	74.00	21.77	peak

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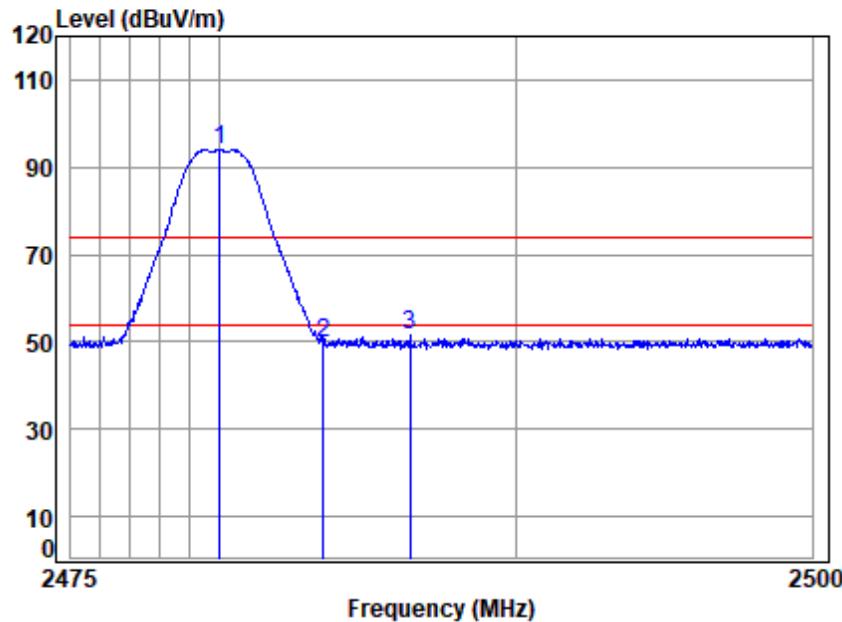
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Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 12189CR
Mode : 2480 Band edge
Note : BLE 2M

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	101.21	93.90	74.00	19.90 peak
2 2483.500	4.49	28.67	40.47	56.92	49.61	74.00	-24.39 peak
3 2486.419	4.50	28.68	40.47	58.71	51.42	74.00	-22.58 peak

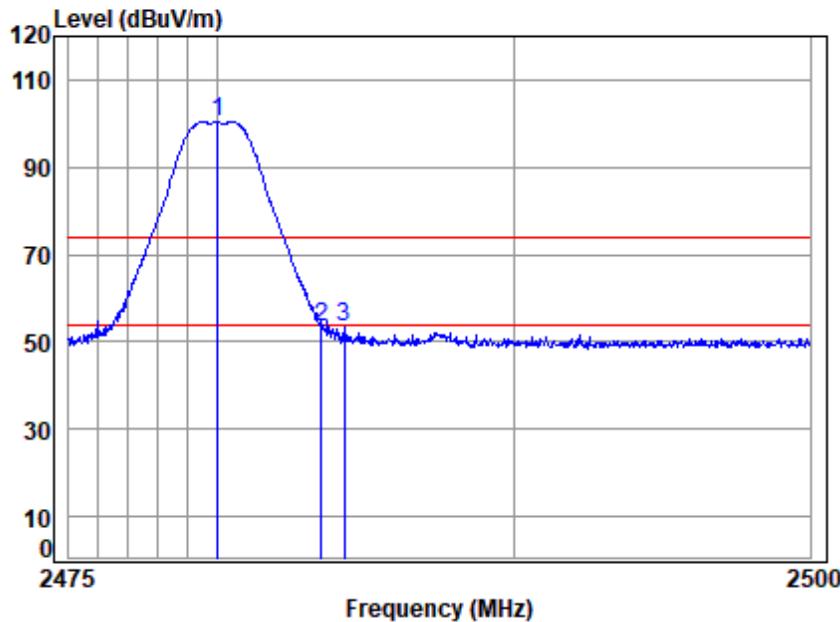
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Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 12189CR
Mode : 2480 Band edge
Note : BLE 2M

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	107.74	100.43	74.00	26.43 peak
2 2483.500	4.49	28.67	40.47	60.78	53.47	74.00	-20.53 peak
3 2484.271	4.50	28.67	40.47	60.46	53.16	74.00	-20.84 peak

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7.7 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.

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Humidity: 56.8 % RH Atmospheric Pressure: 1010 mbar

7.7.2 Test Mode Description

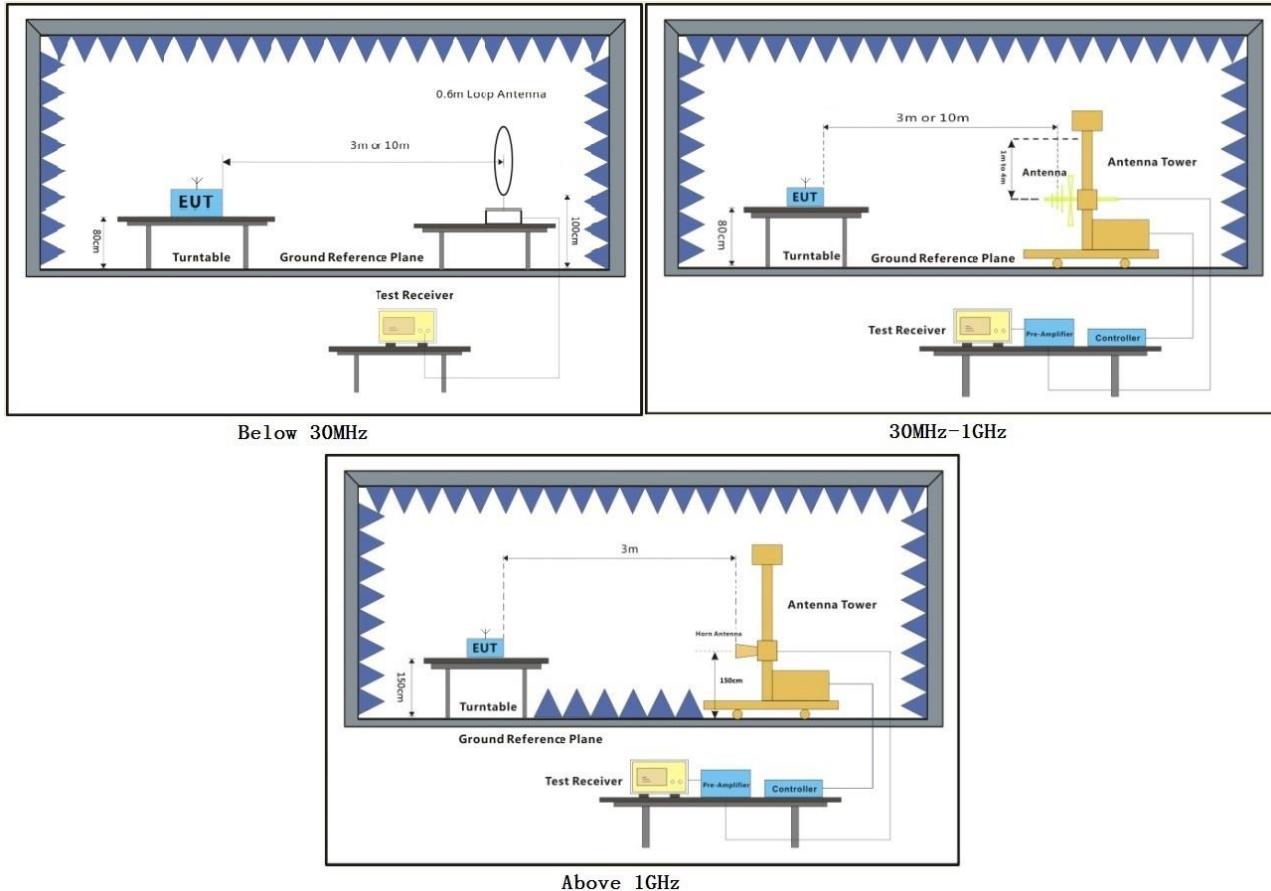
Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mb/s)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	03	TX mode(2Mb/s)_Keep the EUT in continuously transmitting mode with GFSK modulation.

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7.7.3 Test Setup Diagram

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7.7.4 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.

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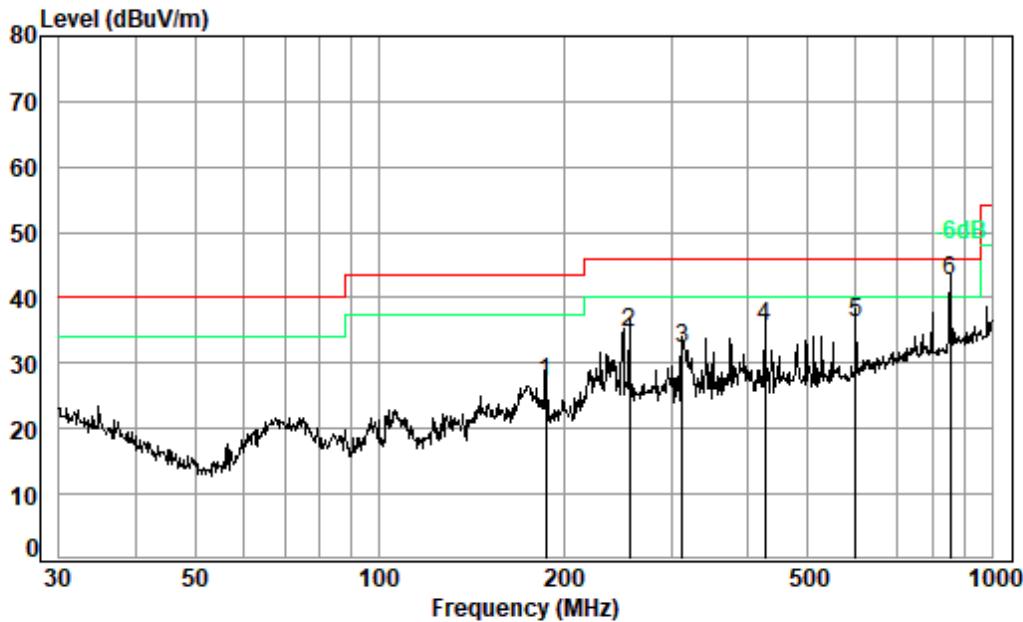


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Below 1GHz(Worst case)

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



Condition: 3m HORIZONTAL

Job No. : 12189CR

Test Mode: 02

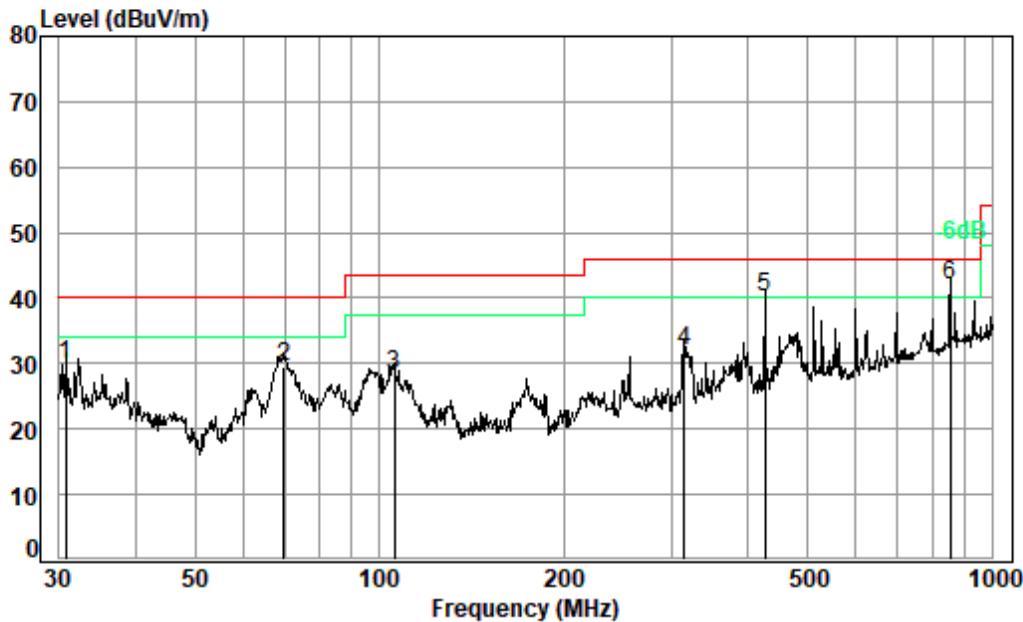
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Level	Level	Line	
1	187.10	1.19	15.47	27.19	37.50	26.97	43.50 -16.53 QP
2	256.52	1.69	18.13	26.98	41.91	34.75	46.00 -11.25 QP
3	312.18	2.04	19.49	26.94	37.50	32.09	46.00 -13.91 QP
4	426.52	2.36	22.13	27.51	38.46	35.44	46.00 -10.56 QP
5	599.32	2.70	25.79	28.13	35.96	36.32	46.00 -9.68 QP
6 pp	854.02	3.41	28.19	27.42	38.46	42.64	46.00 -3.36 QP



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



Condition: 3m VERTICAL

Job No. : 12189CR

Test Mode: 02

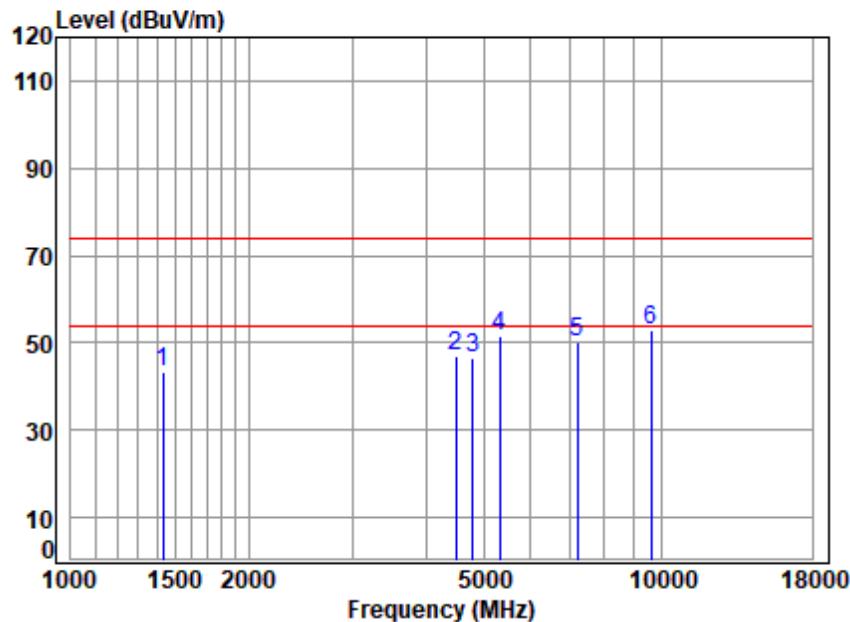
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Level	Level	Line	
1	30.75	0.61	22.43	27.73	34.36	29.67	40.00 -10.33 QP
2	69.84	0.80	12.69	27.65	43.63	29.47	40.00 -10.53 QP
3	106.01	1.11	13.82	27.57	40.79	28.15	43.50 -15.35 QP
4	314.38	2.05	19.58	26.96	37.16	31.83	46.00 -14.17 QP
5	426.52	2.36	22.13	27.51	43.25	40.23	46.00 -5.77 QP
6 pp	854.02	3.41	28.19	27.42	37.92	42.10	46.00 -3.90 QP



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



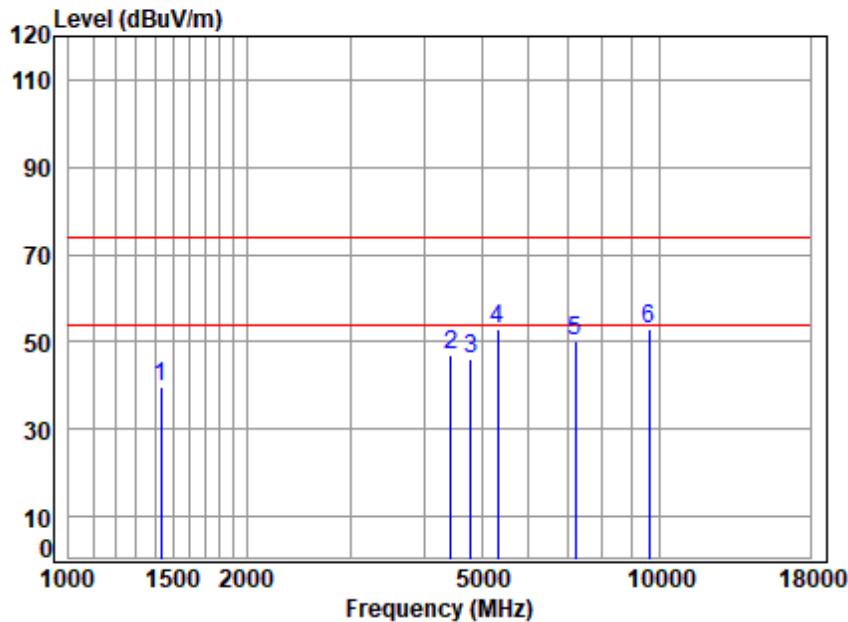
Site : chamber
Condition: 3m HORIZONTAL
Job No : 12189CR
Mode : 2402 TX SE
Note : BLE 1M

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								MHz	dB
1	1431.047	3.16	25.54	39.91	54.38	43.17	74.00	-30.83	peak
2	4482.150	6.74	33.57	41.86	48.53	46.98	74.00	-27.02	peak
3	4804.000	7.10	33.97	42.14	47.46	46.39	74.00	-27.61	peak
4	5330.928	7.89	34.47	42.34	51.55	51.57	74.00	-22.43	peak
5	7206.000	8.74	36.07	41.50	46.96	50.27	74.00	-23.73	peak
6	9608.000	10.81	37.67	37.76	42.07	52.79	74.00	-21.21	peak

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



Site : chamber
Condition: 3m VERTICAL
Job No : 12189CR
Mode : 2402 TX SE
Note : BLE 1M

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1431.047	3.16	25.54	39.91	50.87	39.66	74.00	-34.34 peak
2 4430.628	6.70	33.48	41.81	48.62	46.99	74.00	-27.01 peak
3 4804.000	7.10	33.97	42.14	47.33	46.26	74.00	-27.74 peak
4 5330.928	7.89	34.47	42.34	52.69	52.71	74.00	-21.29 peak
5 7206.000	8.74	36.07	41.50	46.71	50.02	74.00	-23.98 peak
6 9608.000	10.81	37.67	37.76	42.32	53.04	74.00	-20.96 peak

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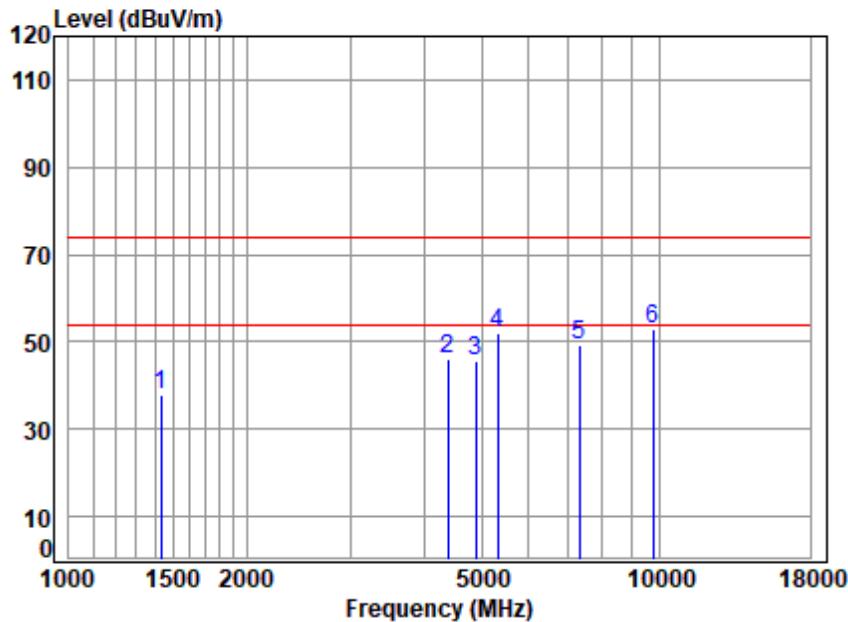


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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:middle



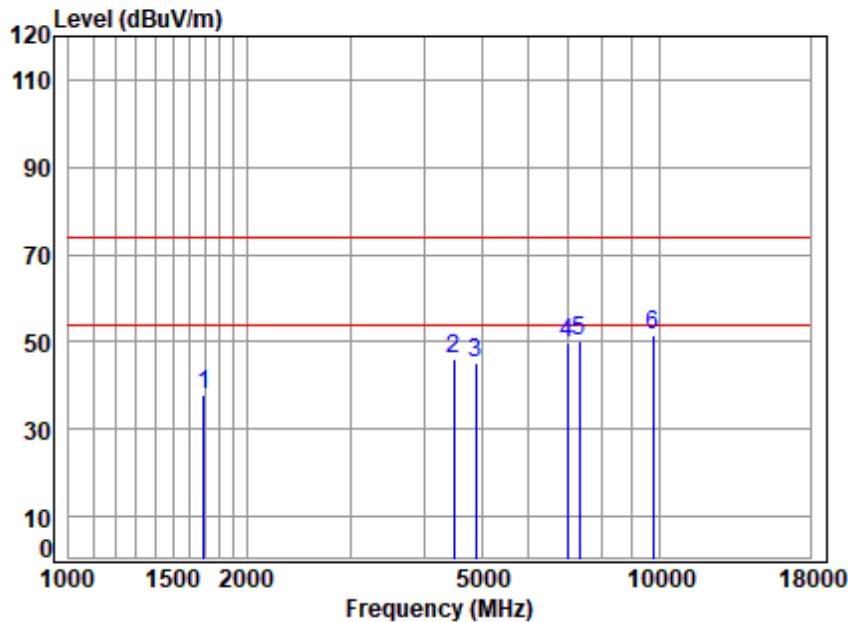
Site : chamber
Condition: 3m HORIZONTAL
Job No : 12189CR
Mode : 2402 TX SE
Note : BLE 1M

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1431.047	3.16	25.54	39.91	49.24	38.03	74.00	-35.97 peak
2 4392.376	6.66	33.42	41.78	47.99	46.29	74.00	-27.71 peak
3 4880.000	7.18	34.06	42.20	46.56	45.60	74.00	-28.40 peak
4 5330.928	7.89	34.47	42.34	52.00	52.02	74.00	-21.98 peak
5 7320.000	8.84	36.16	41.40	45.81	49.41	74.00	-24.59 peak
6 9760.000	10.76	37.76	37.50	42.11	53.13	74.00	-20.87 peak

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



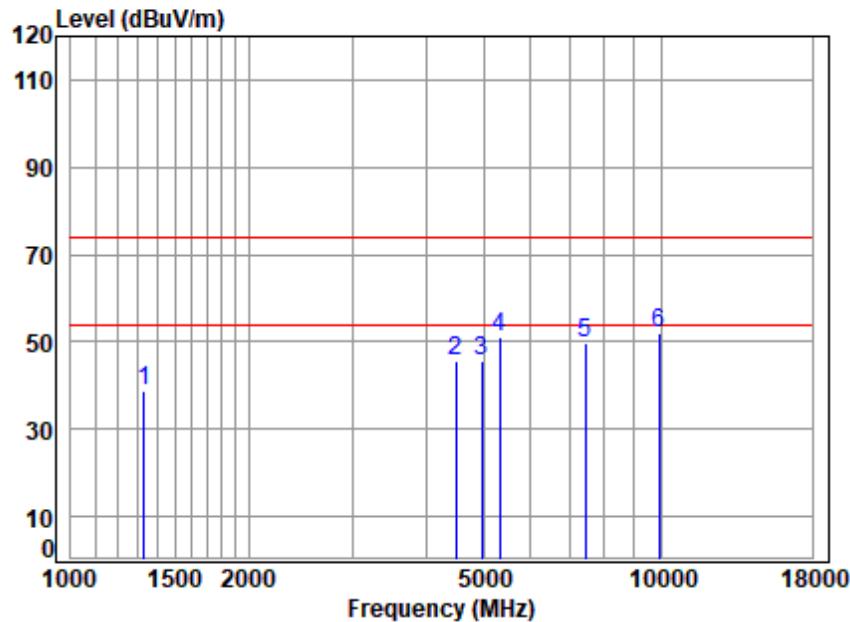
Site : chamber
Condition: 3m VERTICAL
Job No : 12189CR
Mode : 2402 TX SE
Note : BLE 1M

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1692.231	3.42	26.64	40.06	47.79	37.79	74.00	-36.21 peak
2 4482.150	6.74	33.57	41.86	47.48	45.93	74.00	-28.07 peak
3 4880.000	7.18	34.06	42.20	46.02	45.06	74.00	-28.94 peak
4 6974.982	8.53	35.89	41.72	47.22	49.92	74.00	-24.08 peak
5 7320.000	8.84	36.16	41.40	46.42	50.02	74.00	-23.98 peak
6 9760.000	10.76	37.76	37.50	40.73	51.75	74.00	-22.25 peak

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 12189CR
Mode : 2402 TX SE
Note : BLE 1M

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1331.288	3.00	25.15	39.85	50.59	38.89	74.00	-35.11 peak
2 4482.150	6.74	33.57	41.86	47.40	45.85	74.00	-28.15 peak
3 4960.000	7.26	34.15	42.27	46.41	45.55	74.00	-28.45 peak
4 5330.928	7.89	34.47	42.34	51.26	51.28	74.00	-22.72 peak
5 7440.000	8.96	36.25	41.29	45.89	49.81	74.00	-24.19 peak
6 9920.000	10.71	37.85	37.23	40.66	51.99	74.00	-22.01 peak

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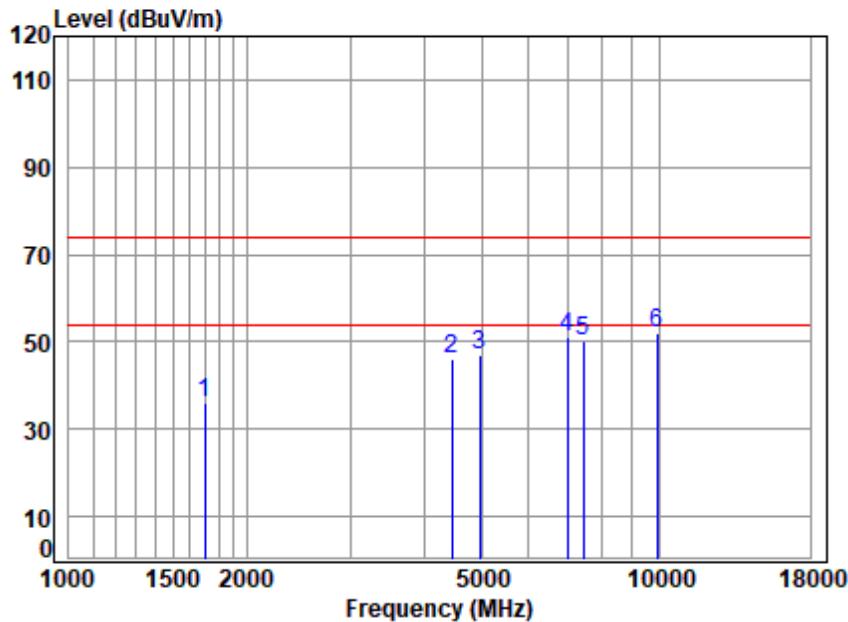
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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:High



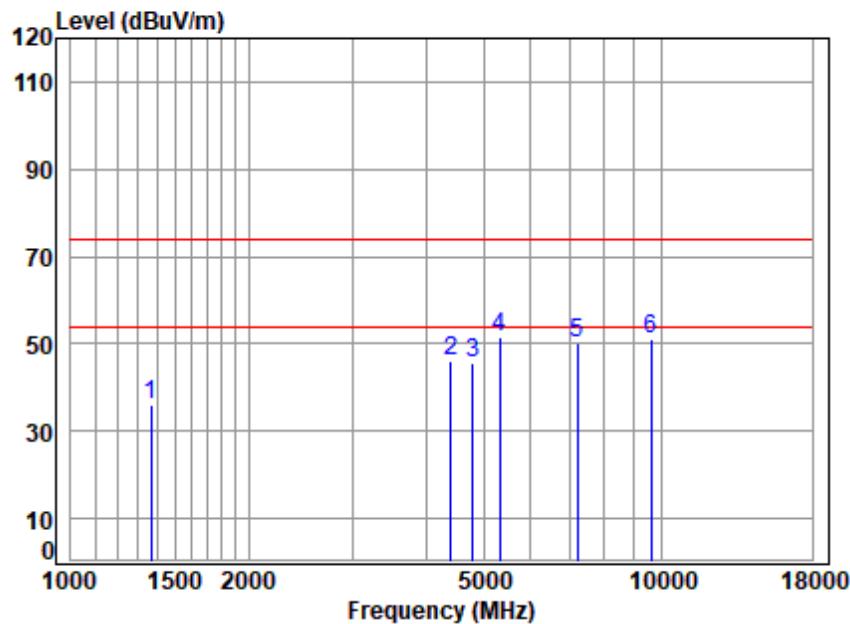
Site : chamber
Condition: 3m VERTICAL
Job No : 12189CR
Mode : 2402 TX SE
Note : BLE 1M

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Level	Line Limit	Over Limit	Remark
				Level				
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 1697.129	3.43	26.66	40.06	45.91	35.94	74.00	-38.06	peak
2 4456.315	6.72	33.53	41.84	47.70	46.11	74.00	-27.89	peak
3 4960.000	7.26	34.15	42.27	47.68	46.82	74.00	-27.18	peak
4 6974.982	8.53	35.89	41.72	48.24	50.94	74.00	-23.06	peak
5 7440.000	8.96	36.25	41.29	46.21	50.13	74.00	-23.87	peak
6 9920.000	10.71	37.85	37.23	40.88	52.21	74.00	-21.79	peak

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Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:Low



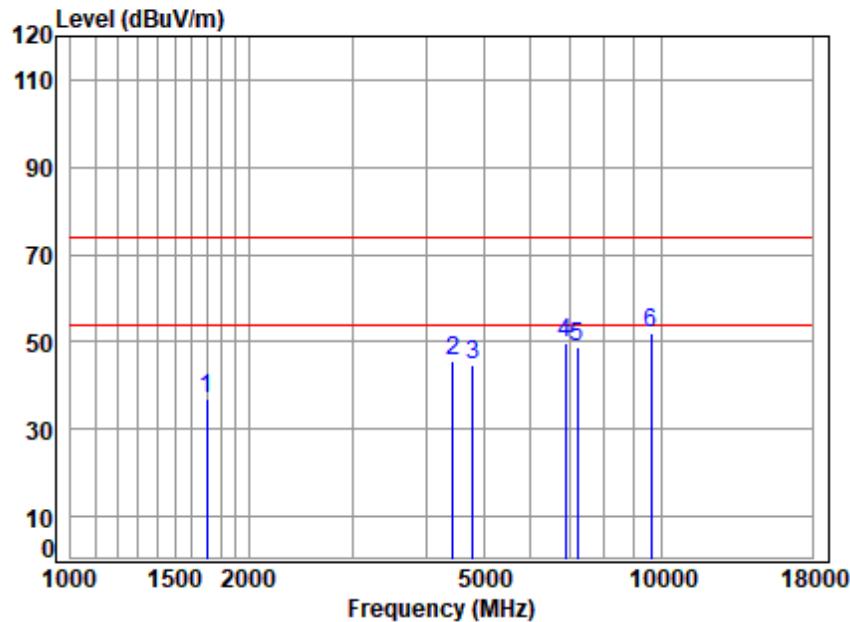
Site : chamber
Condition: 3m HORIZONTAL
Job No : 12189CR
Mode : 2402 TX SE
Note : BLE 2M

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1366.374	3.05	25.29	39.87	47.76	36.23	74.00	-37.77 peak
2 4405.090	6.67	33.44	41.79	47.89	46.21	74.00	-27.79 peak
3 4804.000	7.10	33.97	42.14	46.49	45.42	74.00	-28.58 peak
4 5330.928	7.89	34.47	42.34	51.39	51.41	74.00	-22.59 peak
5 7206.000	8.74	36.07	41.50	46.77	50.08	74.00	-23.92 peak
6 9608.000	10.81	37.67	37.76	40.46	51.18	74.00	-22.82 peak

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Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:Low



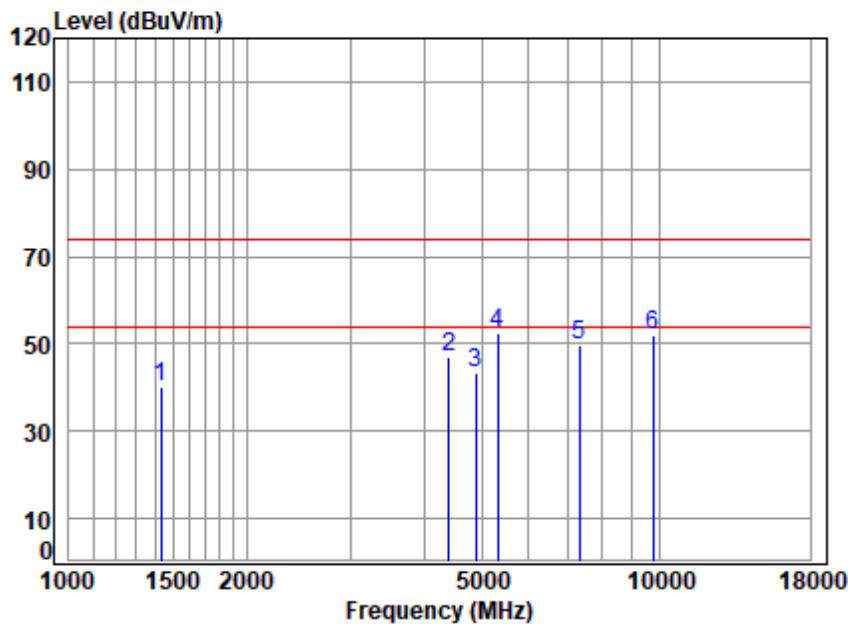
Site : chamber
Condition: 3m VERTICAL
Job No : 12189CR
Mode : 2402 TX SE
Note : BLE 2M

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1697.129	3.43	26.66	40.06	47.04	37.07	74.00	-36.93 peak
2 4430.628	6.70	33.48	41.81	47.05	45.42	74.00	-28.58 peak
3 4804.000	7.10	33.97	42.14	45.83	44.76	74.00	-29.24 peak
4 6874.906	8.48	35.83	41.78	46.99	49.52	74.00	-24.48 peak
5 7206.000	8.74	36.07	41.50	45.41	48.72	74.00	-25.28 peak
6 9608.000	10.81	37.67	37.76	41.20	51.92	74.00	-22.08 peak

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Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:middle



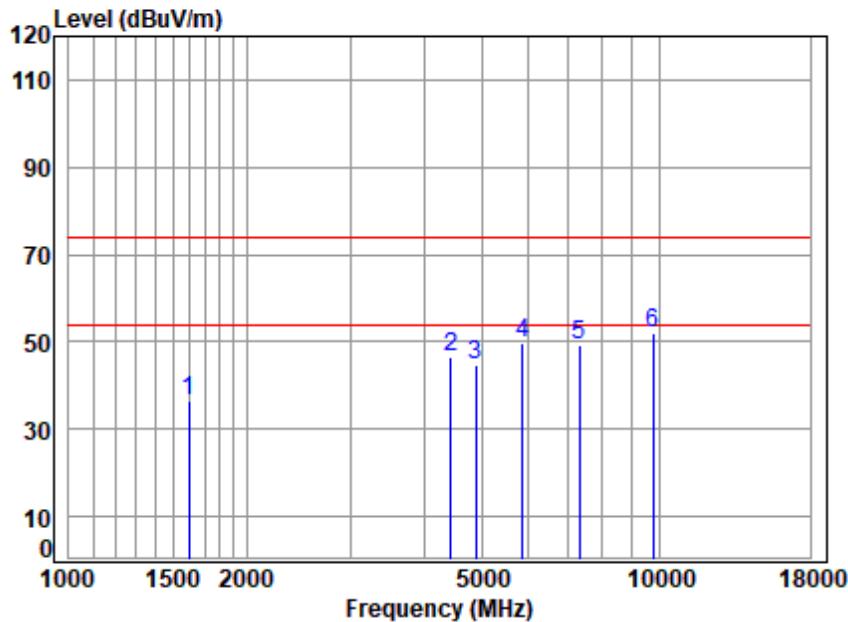
Site : chamber
Condition: 3m HORIZONTAL
Job No : 12189CR
Mode : 2402 TX SE
Note : BLE 2M

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1 1435.189	3.16	25.56	39.91	51.45	40.26	74.00	-33.74 peak
2 4405.090	6.67	33.44	41.79	48.53	46.85	74.00	-27.15 peak
3 4880.000	7.18	34.06	42.20	44.28	43.32	74.00	-30.68 peak
4 5330.928	7.89	34.47	42.34	52.65	52.67	74.00	-21.33 peak
5 7320.000	8.84	36.16	41.40	46.28	49.88	74.00	-24.12 peak
6 9760.000	10.76	37.76	37.50	40.90	51.92	74.00	-22.08 peak

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Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:middle



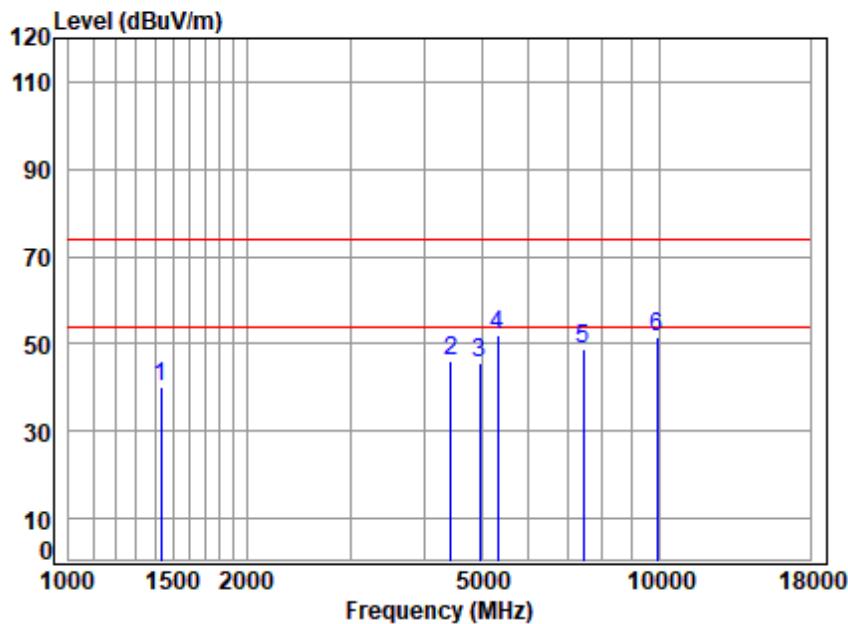
Site : chamber
Condition: 3m VERTICAL
Job No : 12189CR
Mode : 2402 TX SE
Note : BLE 2M

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1 1597.181	3.35	26.24	40.01	46.80	36.38	74.00	-37.62 peak
2 4443.453	6.71	33.50	41.82	47.92	46.31	74.00	-27.69 peak
3 4880.000	7.18	34.06	42.20	45.90	44.94	74.00	-29.06 peak
4 5864.443	8.24	34.97	42.39	48.88	49.70	74.00	-24.30 peak
5 7320.000	8.84	36.16	41.40	45.50	49.10	74.00	-24.90 peak
6 9760.000	10.76	37.76	37.50	41.22	52.24	74.00	-21.76 peak

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Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 12189CR
Mode : 2402 TX SE
Note : BLE 2M

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1431.047	3.16	25.54	39.91	51.18	39.97	74.00	-34.03 peak
2 4430.628	6.70	33.48	41.81	47.82	46.19	74.00	-27.81 peak
3 4960.000	7.26	34.15	42.27	46.62	45.76	74.00	-28.24 peak
4 5330.928	7.89	34.47	42.34	52.19	52.21	74.00	-21.79 peak
5 7440.000	8.96	36.25	41.29	44.76	48.68	74.00	-25.32 peak
6 9920.000	10.71	37.85	37.23	40.28	51.61	74.00	-22.39 peak

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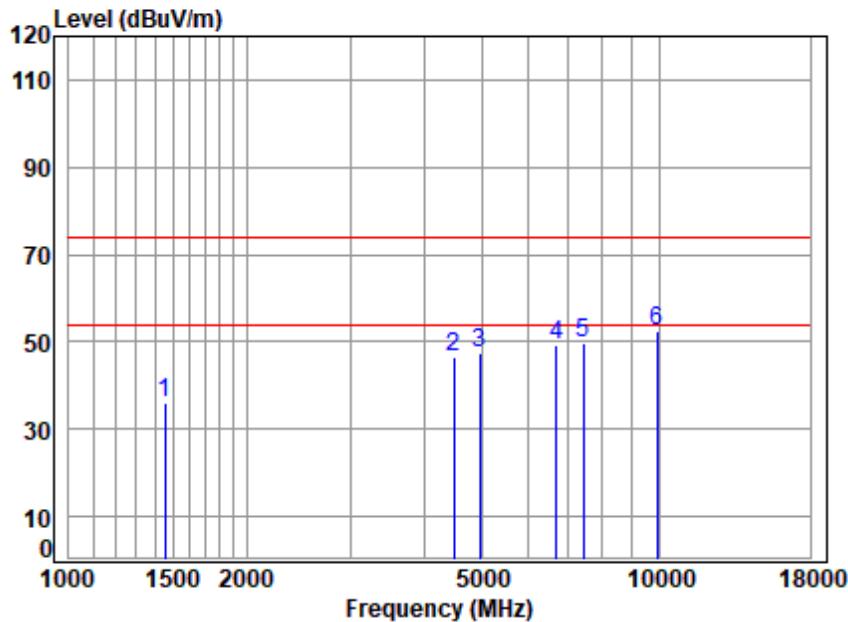


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Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 12189CR
Mode : 2402 TX SE
Note : BLE 2M

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1456.081	3.19	25.64	39.93	47.28	36.18	74.00	-37.82 peak
2 4495.125	6.76	33.59	41.87	48.22	46.70	74.00	-27.30 peak
3 4960.000	7.26	34.15	42.27	48.20	47.34	74.00	-26.66 peak
4 6698.373	8.39	35.72	41.90	47.13	49.34	74.00	-24.66 peak
5 7440.000	8.96	36.25	41.29	45.82	49.74	74.00	-24.26 peak
6 9920.000	10.71	37.85	37.23	41.11	52.44	74.00	-21.56 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 15.247, 15.207

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

Limit:

0.15M-0.5MHz 66dB(μV)-56dB(μV) quasi-peak, 56dB(μV)-46dB(μV) average

0.5M-5MHz 56dB(μV) quasi-peak, 46dB(μV) average

5M-30MHz 60dB(μV) quasi-peak, 50dB(μV) average

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

8.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Humidity: 52.9 % RH Atmospheric Pressure: 1010 mbar

8.1.2 Test Mode Description

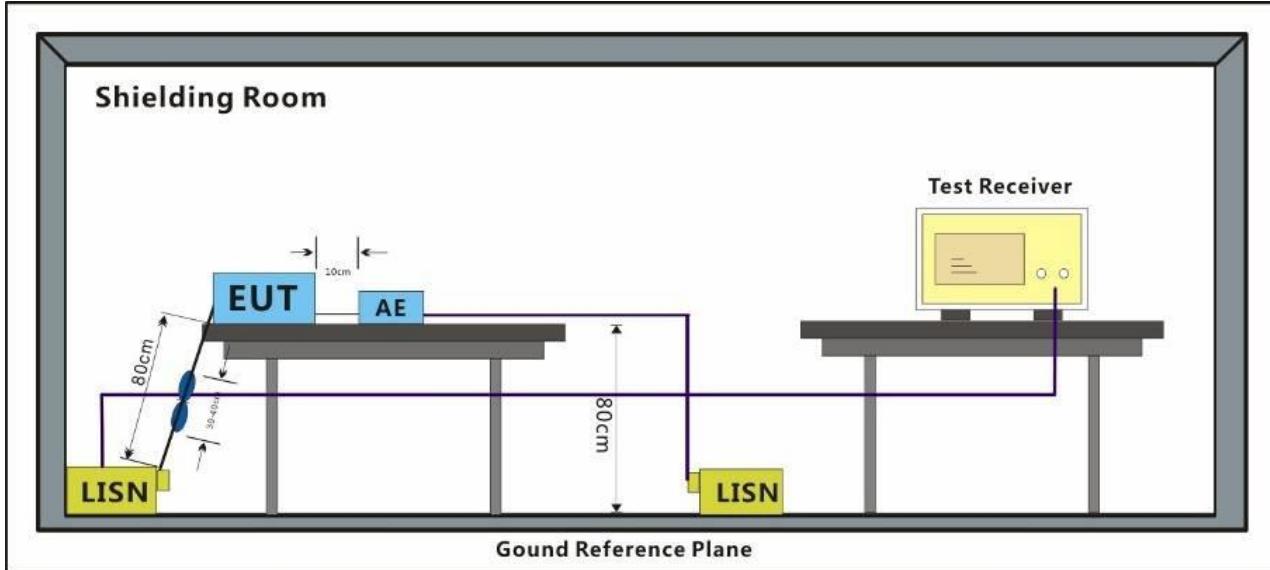
Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mb/s)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	03	TX mode(2Mb/s)_Keep the EUT in continuously transmitting mode with GFSK modulation.



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8.1.3 Test Setup Diagram



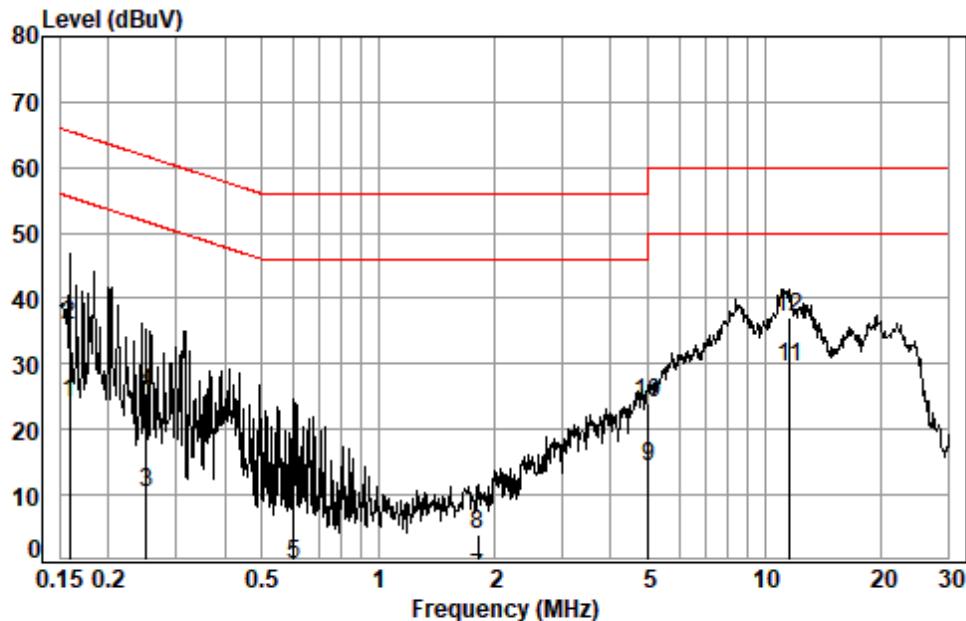
8.1.4 Measurement Procedure and Data

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

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Test Mode: 02; Line: Live line; Modulation:GFSK; Channel:Low



Site : Shielding Room

Condition: Line

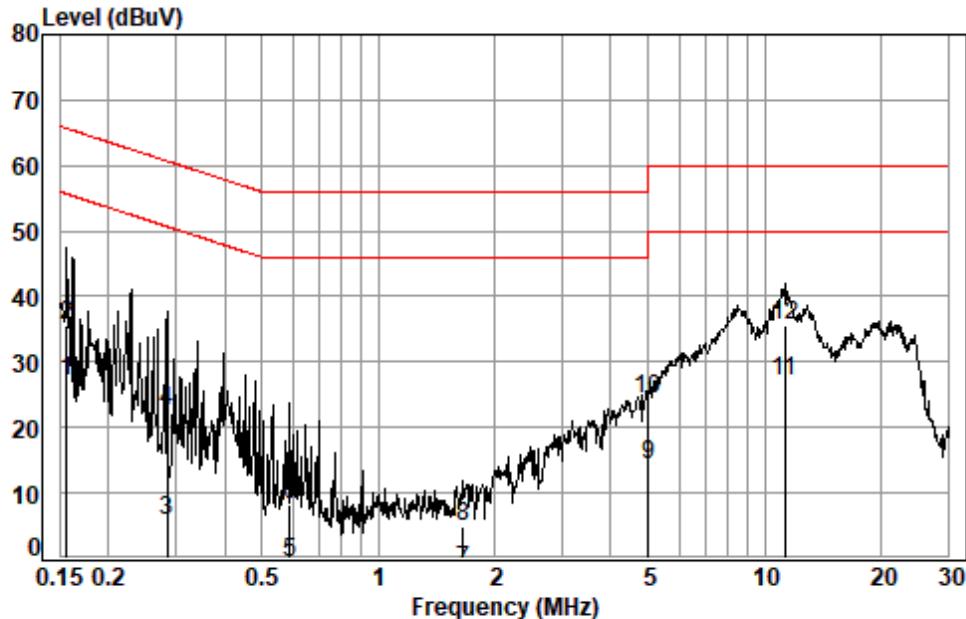
Job No. : 12189CR

Test mode: 02

Freq	Cable	LISN	Read	Limit	Over	Remark	
	Freq	Loss	Factor	Level	Level	Line	Limit
	MHz	dB	dB	dBuV	dBuV	dBuV	dB
1	0.1590	0.03	9.70	14.22	23.95	55.52	-31.57 Average
2	0.1590	0.03	9.70	26.15	35.88	65.52	-29.64 QP
3	0.2508	0.05	9.74	0.58	10.37	51.73	-41.36 Average
4	0.2508	0.05	9.74	15.66	25.45	61.73	-36.28 QP
5	0.6043	0.08	9.77	-10.42	-0.57	46.00	-46.57 Average
6	0.6043	0.08	9.77	0.35	10.20	56.00	-45.80 QP
7	1.8096	0.12	9.81	-12.61	-2.68	46.00	-48.68 Average
8	1.8096	0.12	9.81	-6.00	3.93	56.00	-52.07 QP
9	5.0046	0.16	9.93	4.07	14.16	50.00	-35.84 Average
10	5.0046	0.16	9.93	14.05	24.14	60.00	-35.86 QP
11	11.6208	0.16	10.31	19.15	29.62	50.00	-20.38 Average
12	11.6208	0.16	10.31	26.59	37.06	60.00	-22.94 QP



Test Mode: 02; Line: Neutral Line; Modulation:GFSK; Channel:Low



Site : Shielding Room

Condition: Neutral

Job No. : 12189CR

Test mode: 02

Freq	Cable	LISN	Read	Limit	Over	Remark	
	Freq	Loss	Factor	Level	Level	Line	Limit
	MHz	dB	dB	dBuV	dBuV	dBuV	dB
1	0.1565	0.03	9.71	17.46	27.20	55.65	-28.45 Average
2	0.1565	0.03	9.71	25.76	35.50	65.65	-30.15 QP
3	0.2848	0.05	9.74	-3.87	5.92	50.68	-44.76 Average
4	0.2848	0.05	9.74	12.80	22.59	60.68	-38.09 QP
5	0.5916	0.08	9.77	-10.60	-0.75	46.00	-46.75 Average
6	0.5916	0.08	9.77	-1.70	8.15	56.00	-47.85 QP
7	1.6625	0.12	9.80	-11.72	-1.80	46.00	-47.80 Average
8	1.6625	0.12	9.80	-4.99	4.93	56.00	-51.07 QP
9	5.0046	0.16	9.93	4.32	14.41	50.00	-35.59 Average
10	5.0046	0.16	9.93	14.29	24.38	60.00	-35.62 QP
11	11.3170	0.16	10.30	16.71	27.17	50.00	-22.83 Average
12	11.3170	0.16	10.30	25.06	35.52	60.00	-24.48 QP

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9 Test Setup Photo

Refer to Setup Photos

10 EUT Constructional Details (EUT Photos)

Refer to EUT external and internal photos

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11 Appendix

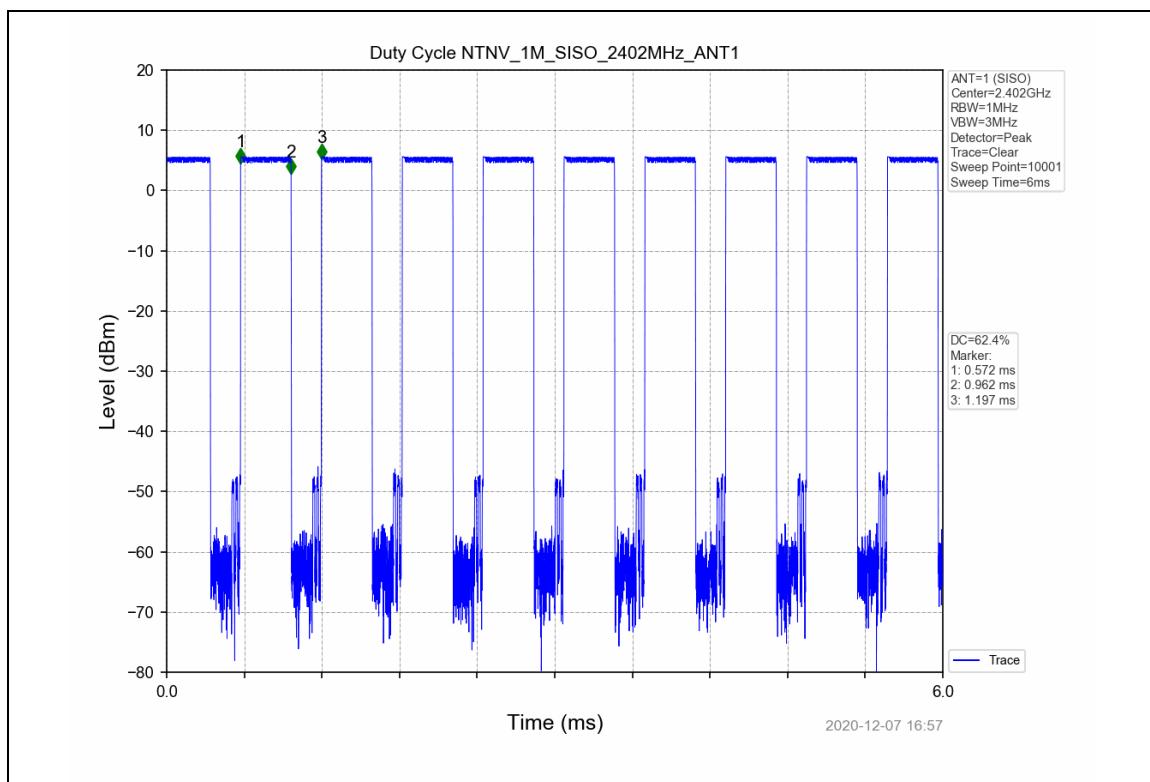
Appendix for 15.247

1. Duty Cycle

1.1 Test Result

Test Mode	Channel Frequency(MHz)	TX Type	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
1M	2402	SISO	1	0.390	0.625	62.40	2.05
	2440	SISO	1	0.390	0.625	62.40	2.05
	2480	SISO	1	0.390	0.625	62.40	2.05
2M	2402	SISO	1	0.206	0.625	32.96	4.82
	2440	SISO	1	0.207	0.625	33.12	4.80
	2480	SISO	1	0.206	0.625	32.96	4.82

1.2 Test Graph



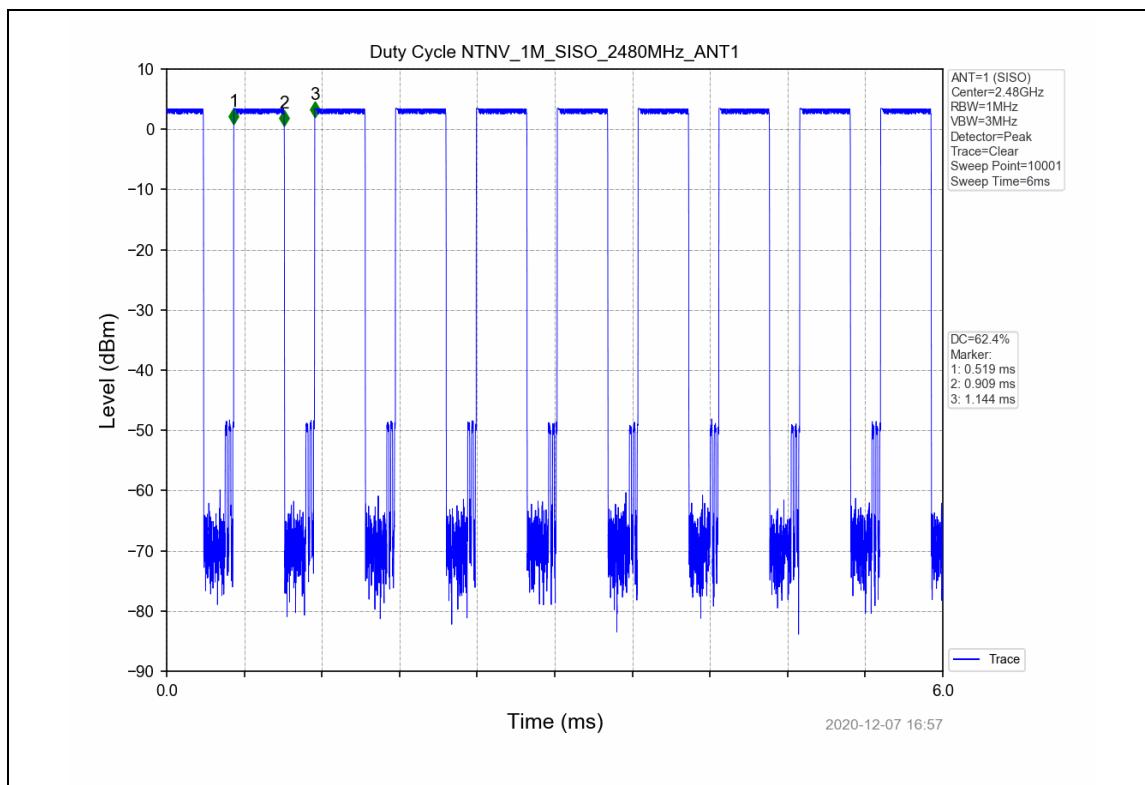
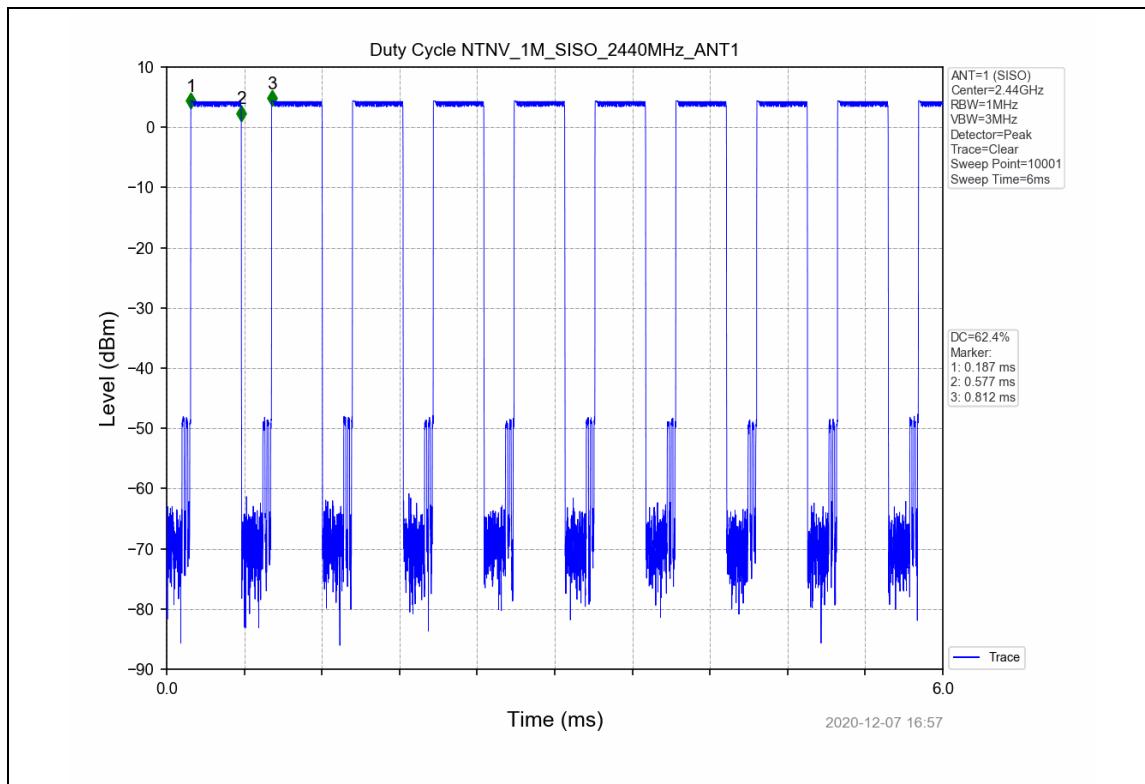
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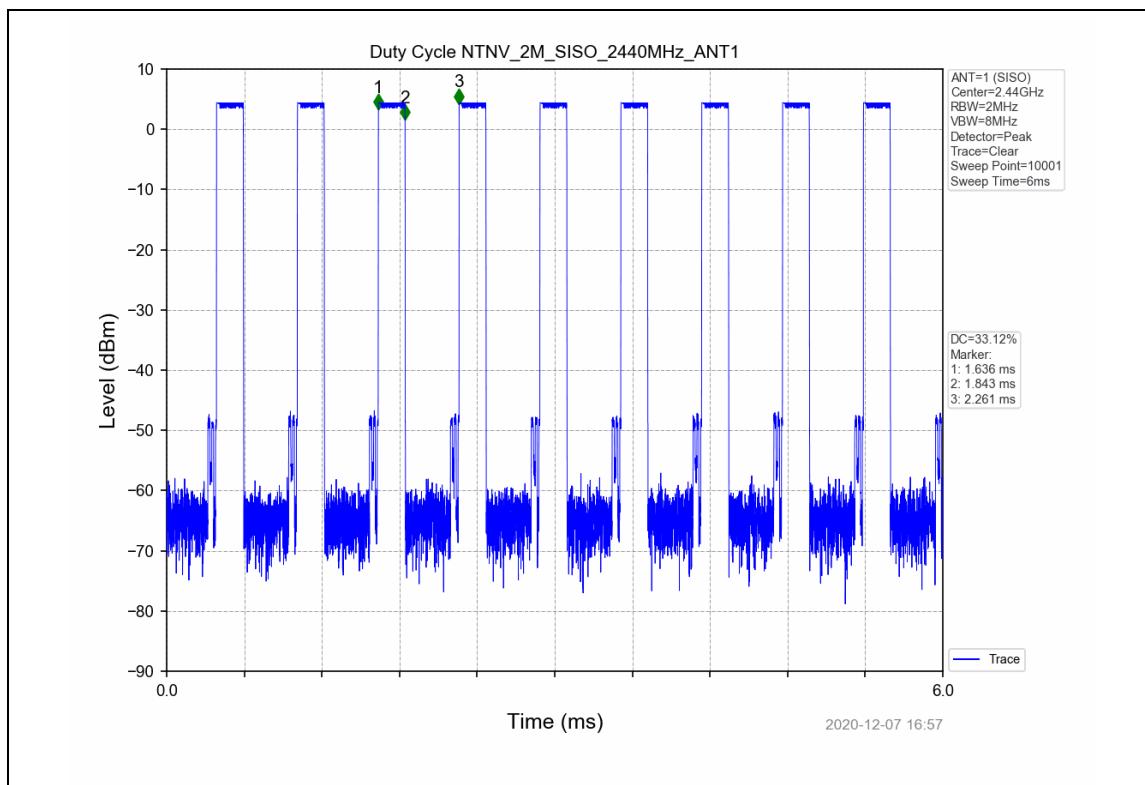
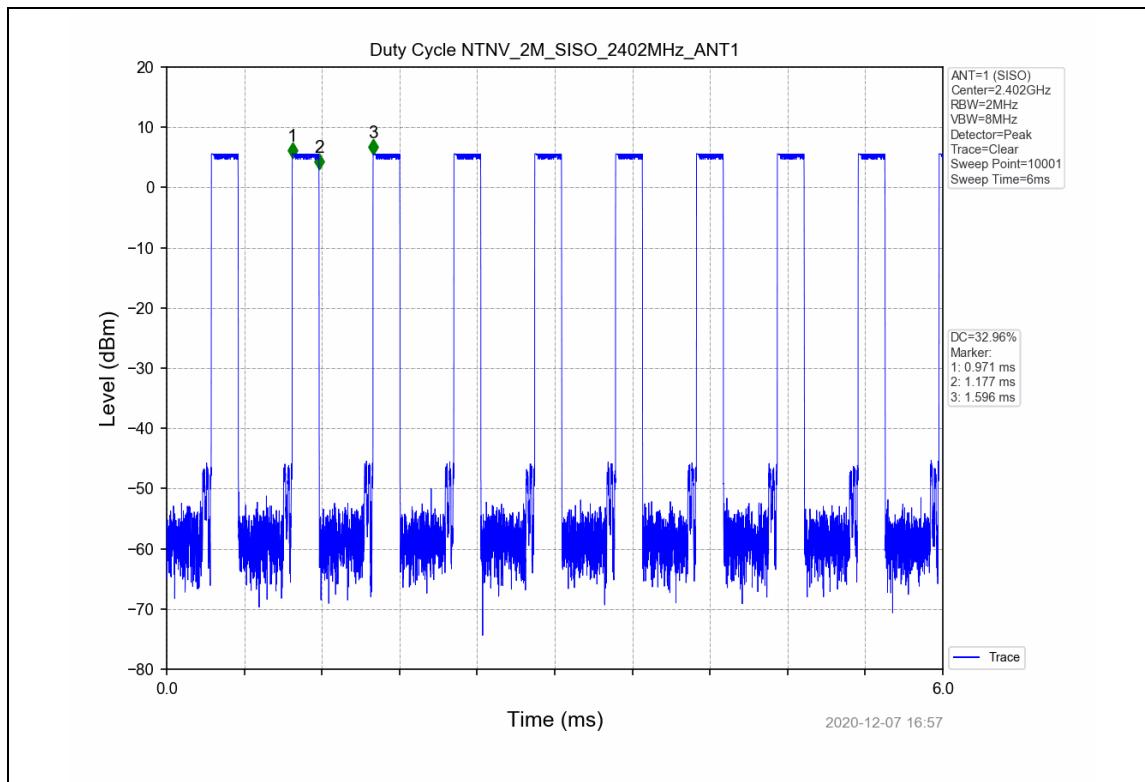
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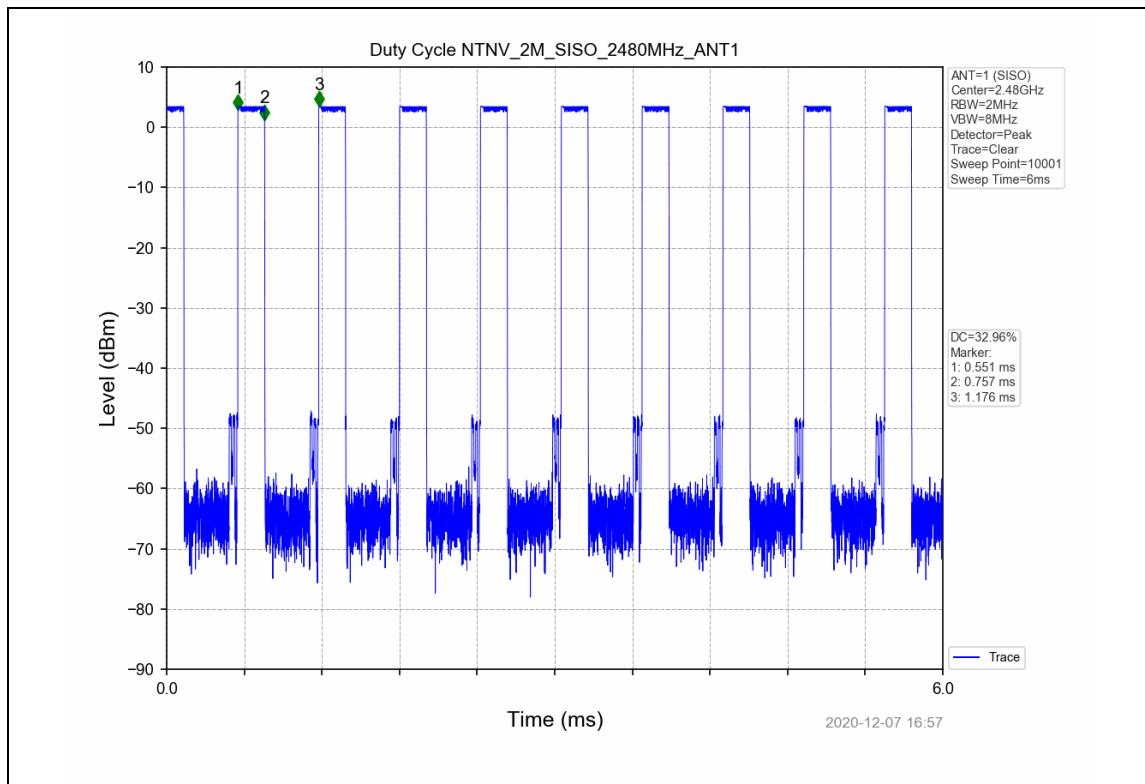
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2. Bandwidth

2.1 Test Result

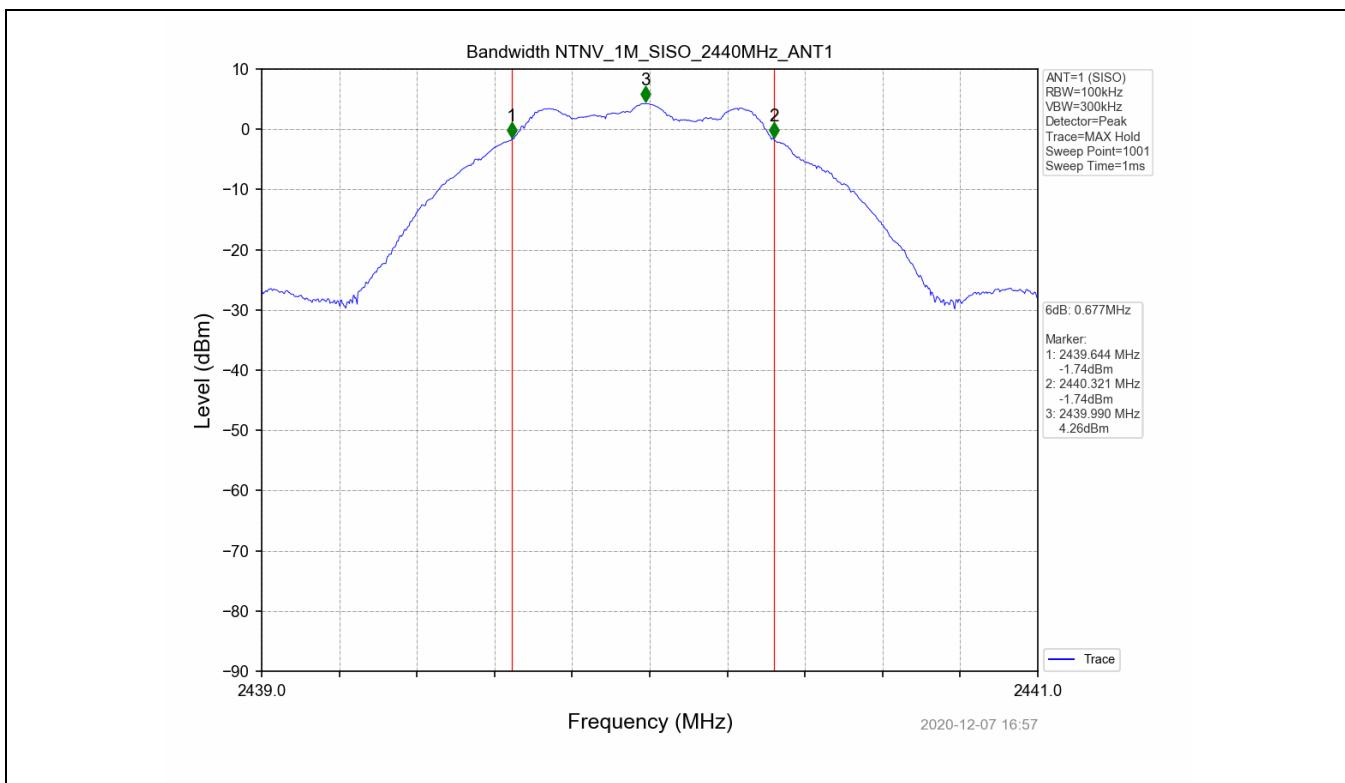
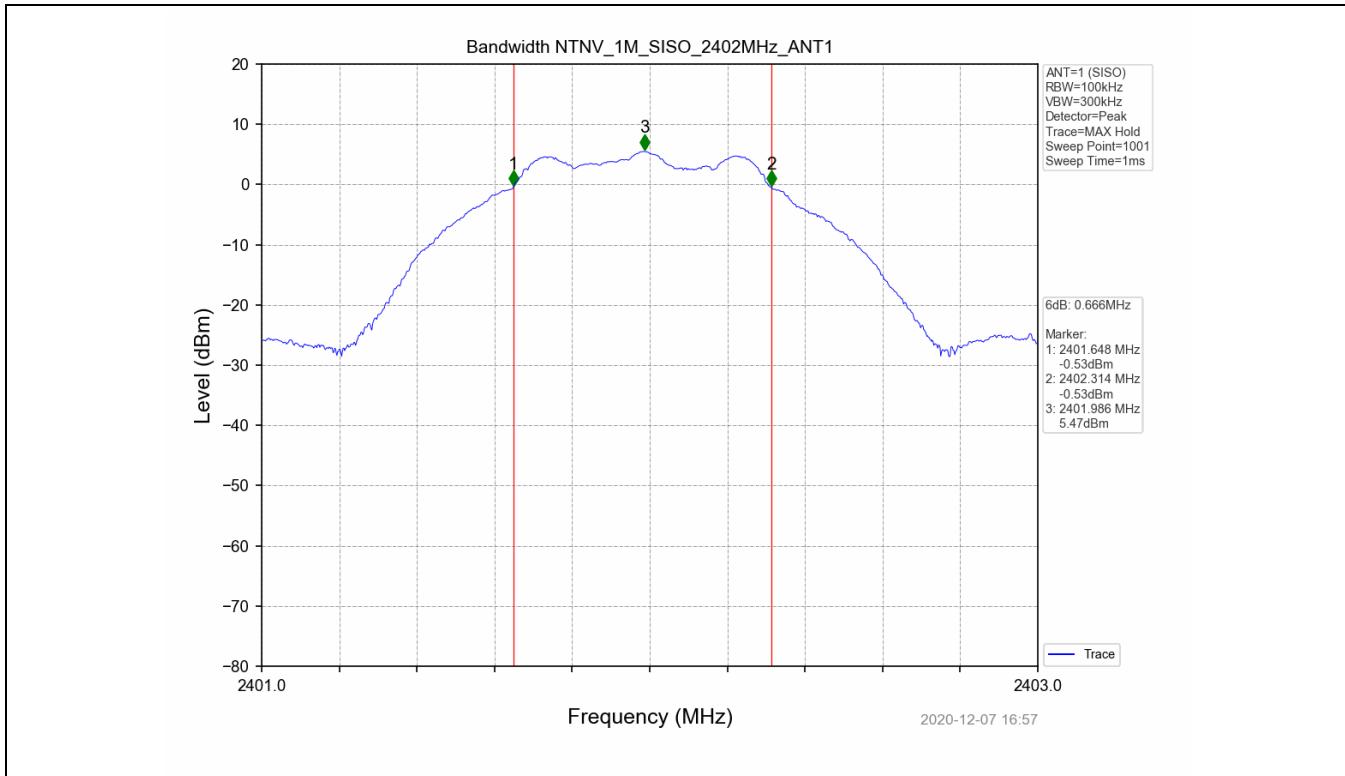
Test Mode	Frequency (MHz)	TX Type	ANT No.	6dB Bandwidth	Verdict
				Test Result (MHz)	
1M	2402	SISO	1	0.666	PASS
	2440	SISO	1	0.677	PASS
	2480	SISO	1	0.679	PASS
2M	2402	SISO	1	1.123	PASS
	2440	SISO	1	1.121	PASS
	2480	SISO	1	1.130	PASS

2.2 Test Graph - 6dB Bandwidth



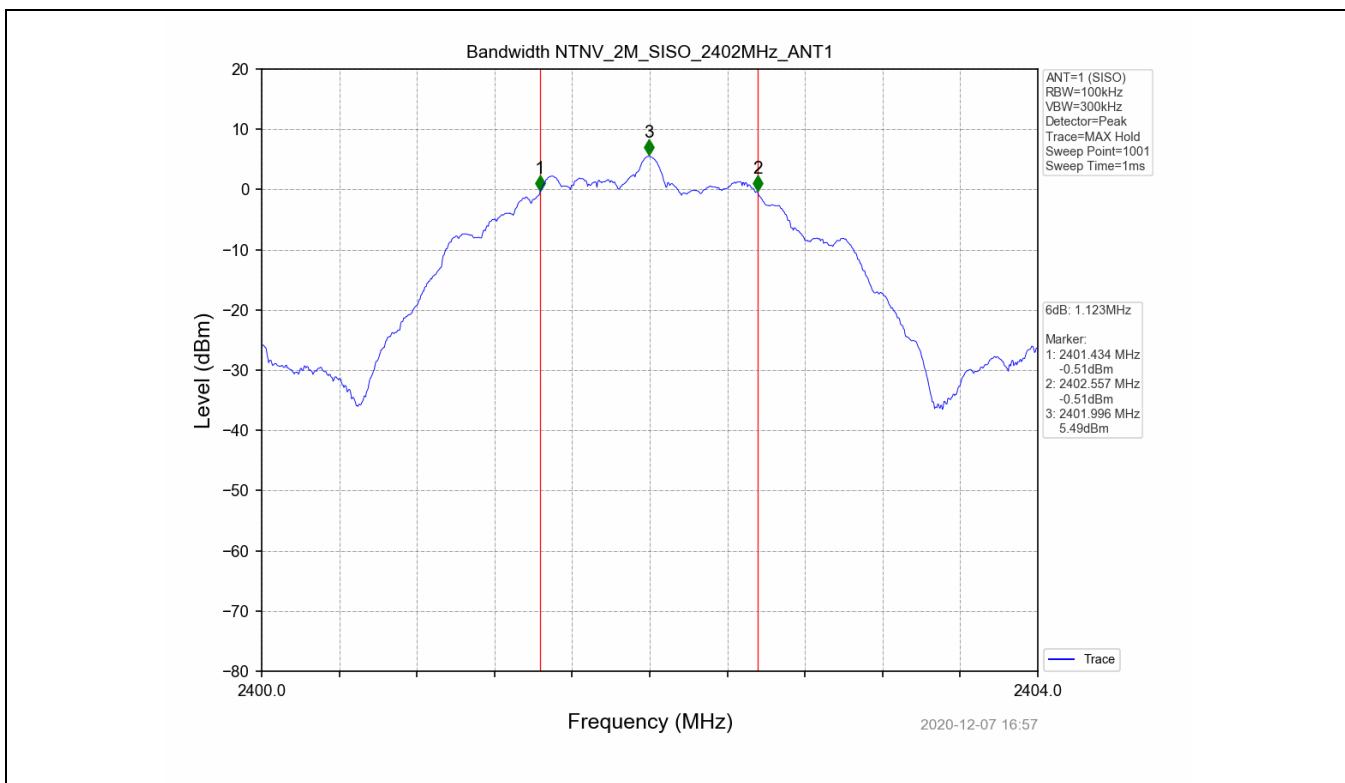
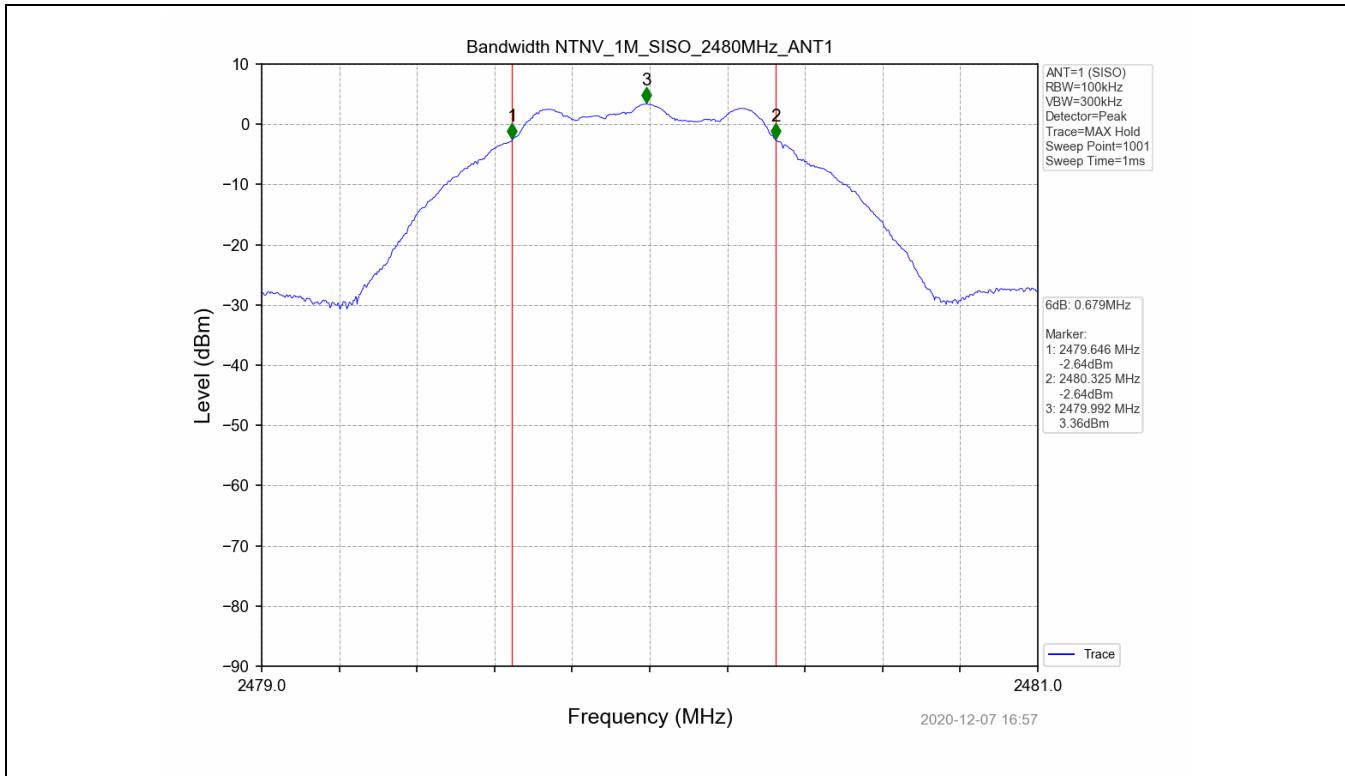
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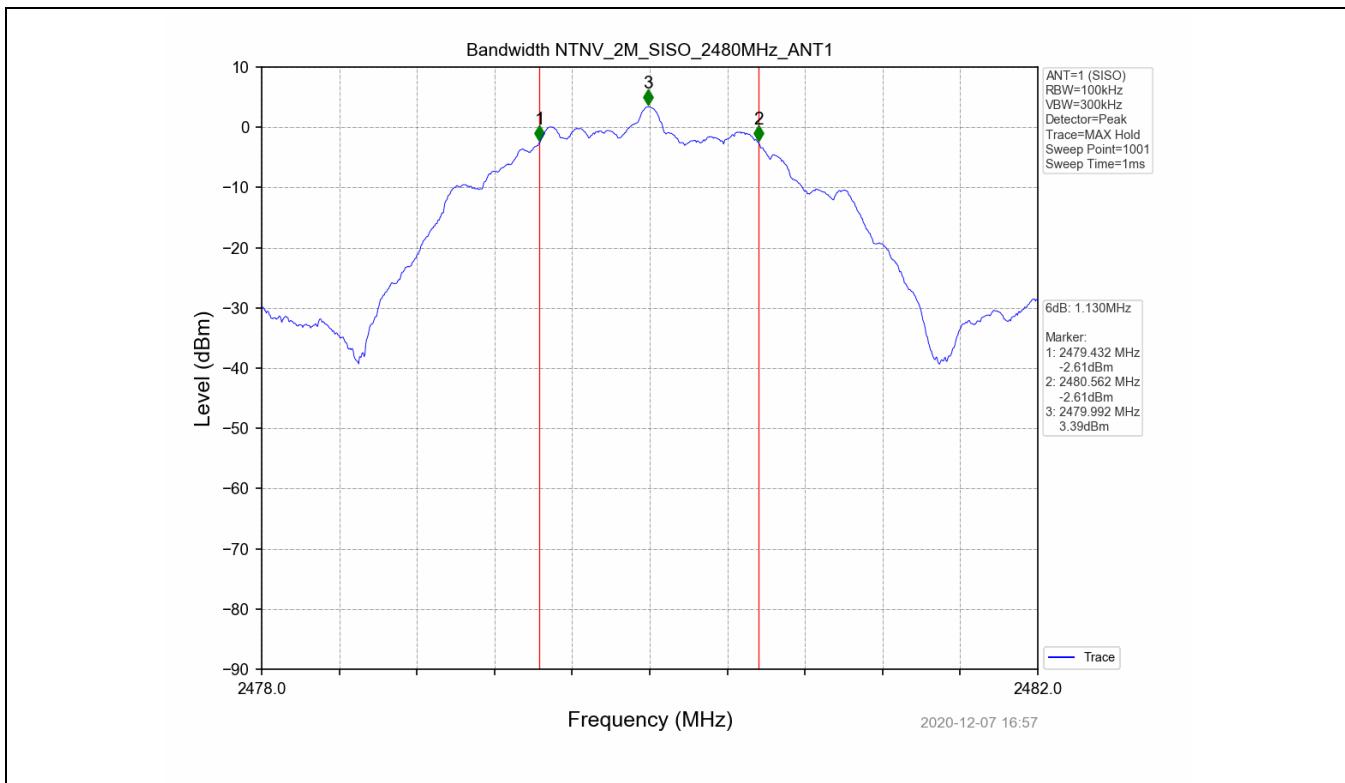
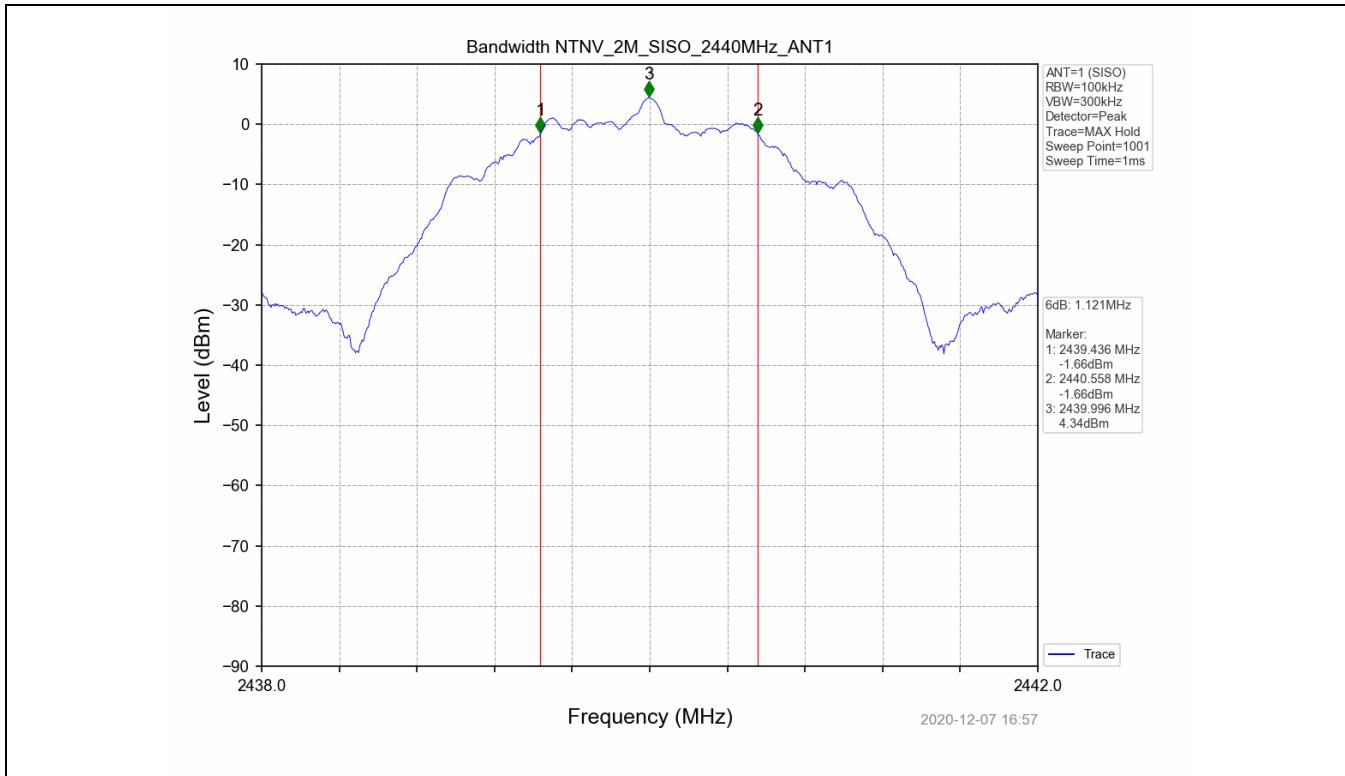
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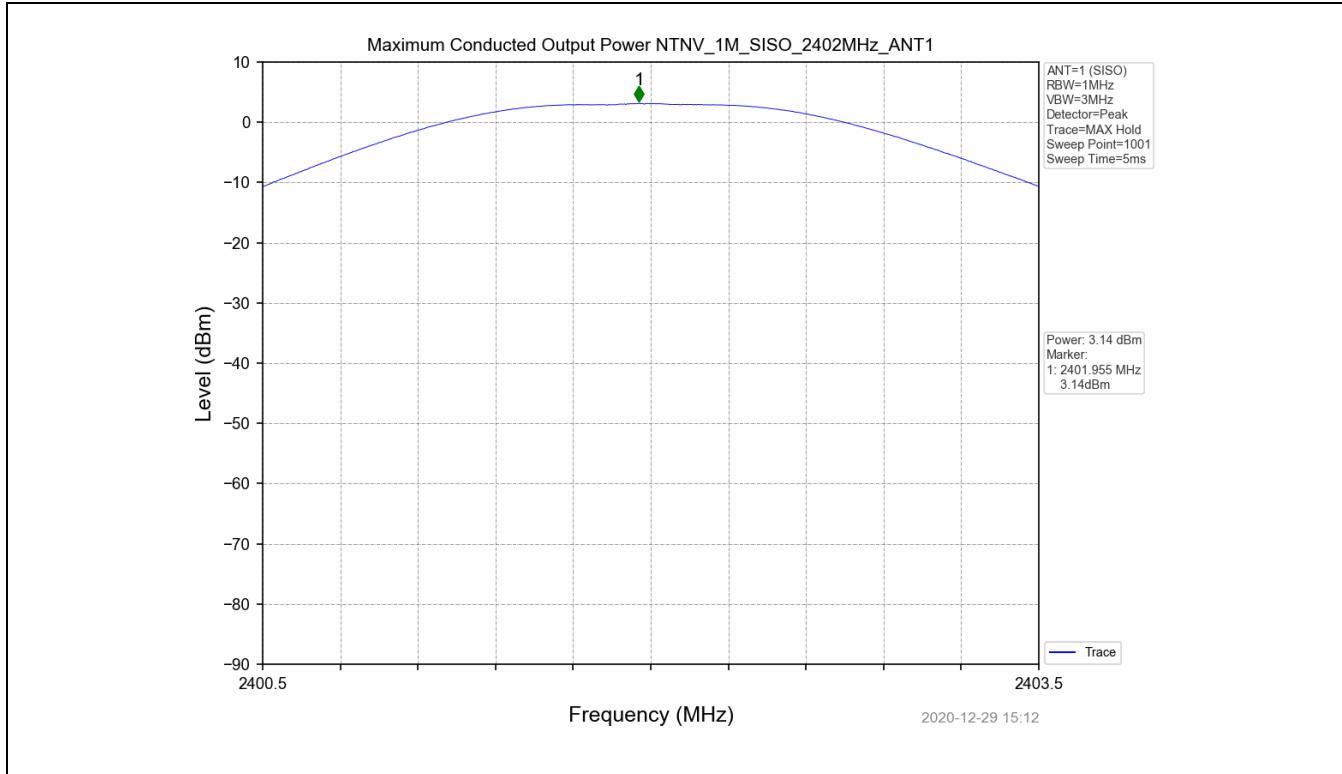
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3. Maximum Conducted Output Power

3.1 Test Result

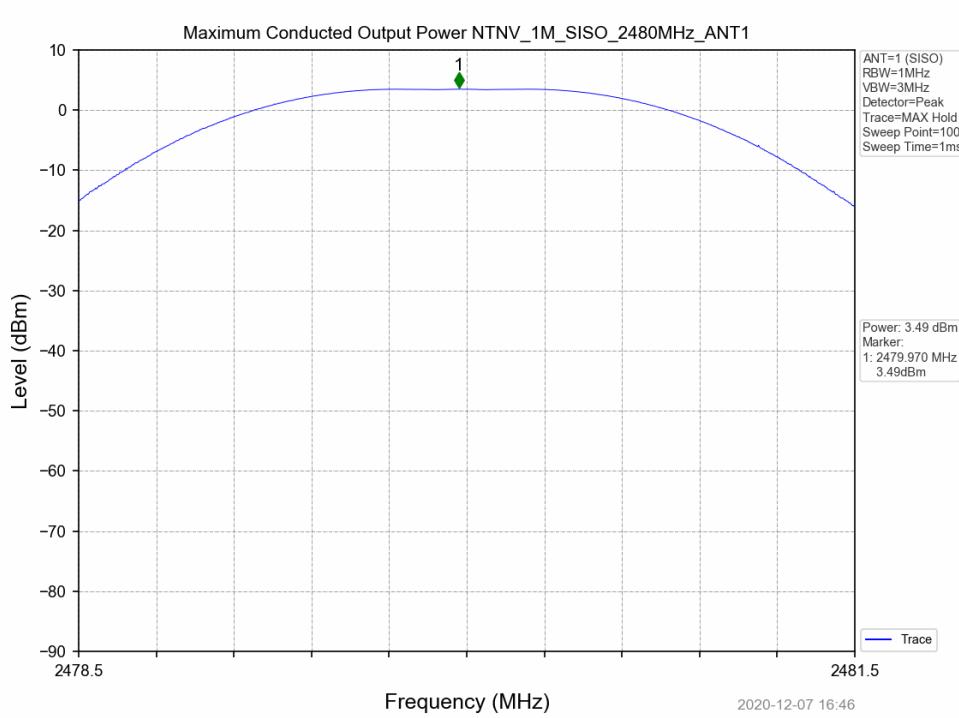
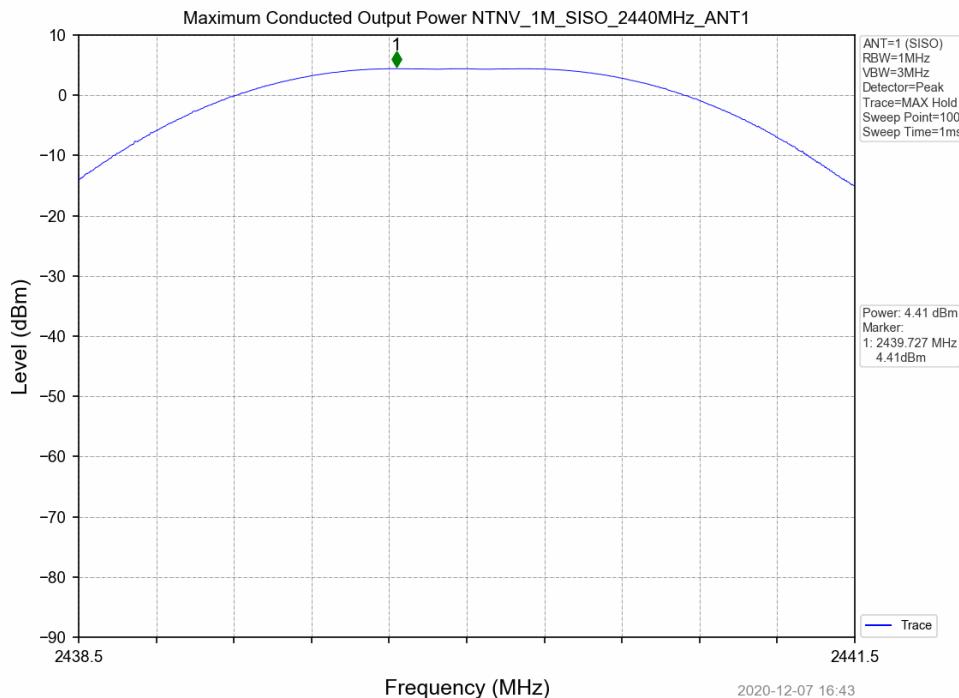
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
1M	2402	SISO	3.14	30	PASS
	2440	SISO	4.41	30	PASS
	2480	SISO	3.49	30	PASS
2M	2402	SISO	5.62	30	PASS
	2440	SISO	4.44	30	PASS
	2480	SISO	3.51	30	PASS

3.2 Test Graph



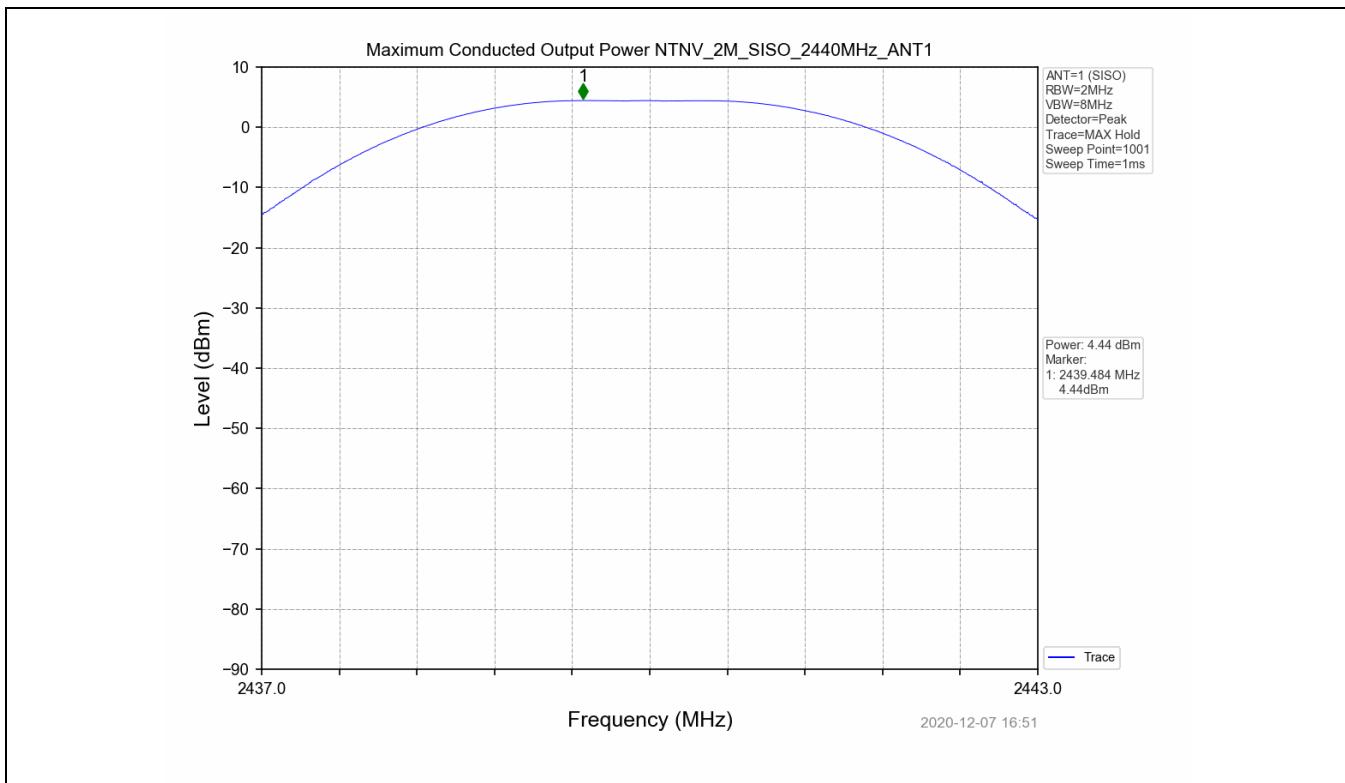
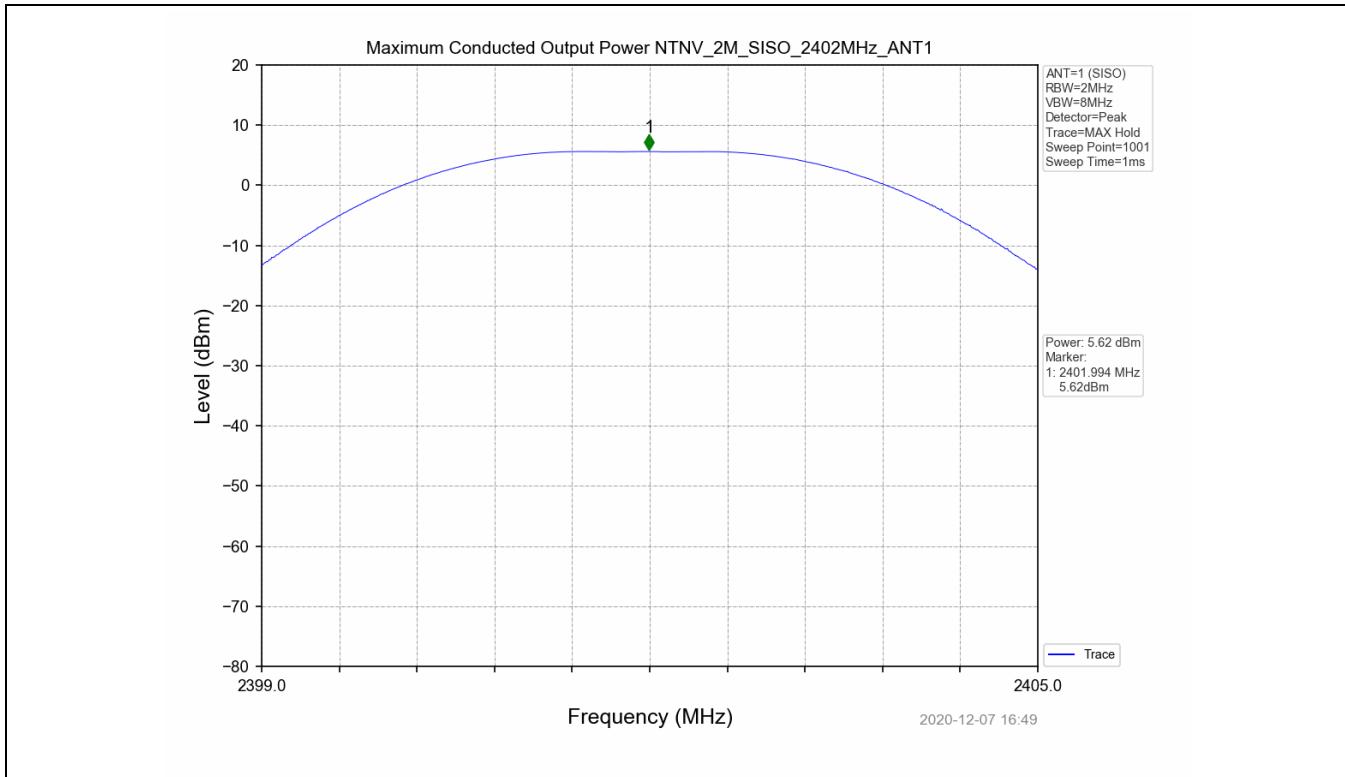
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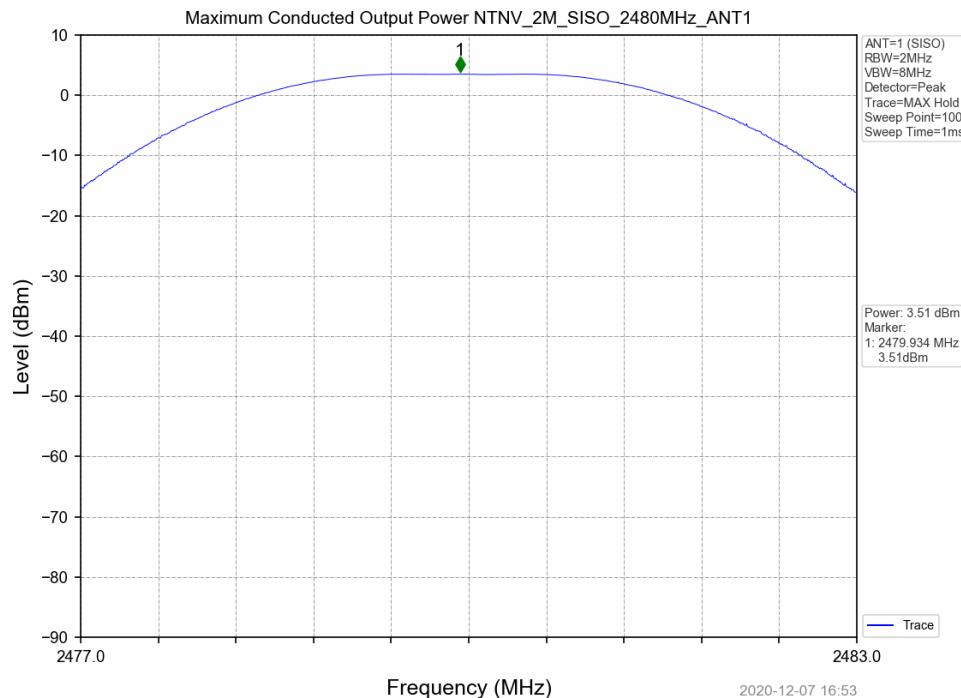


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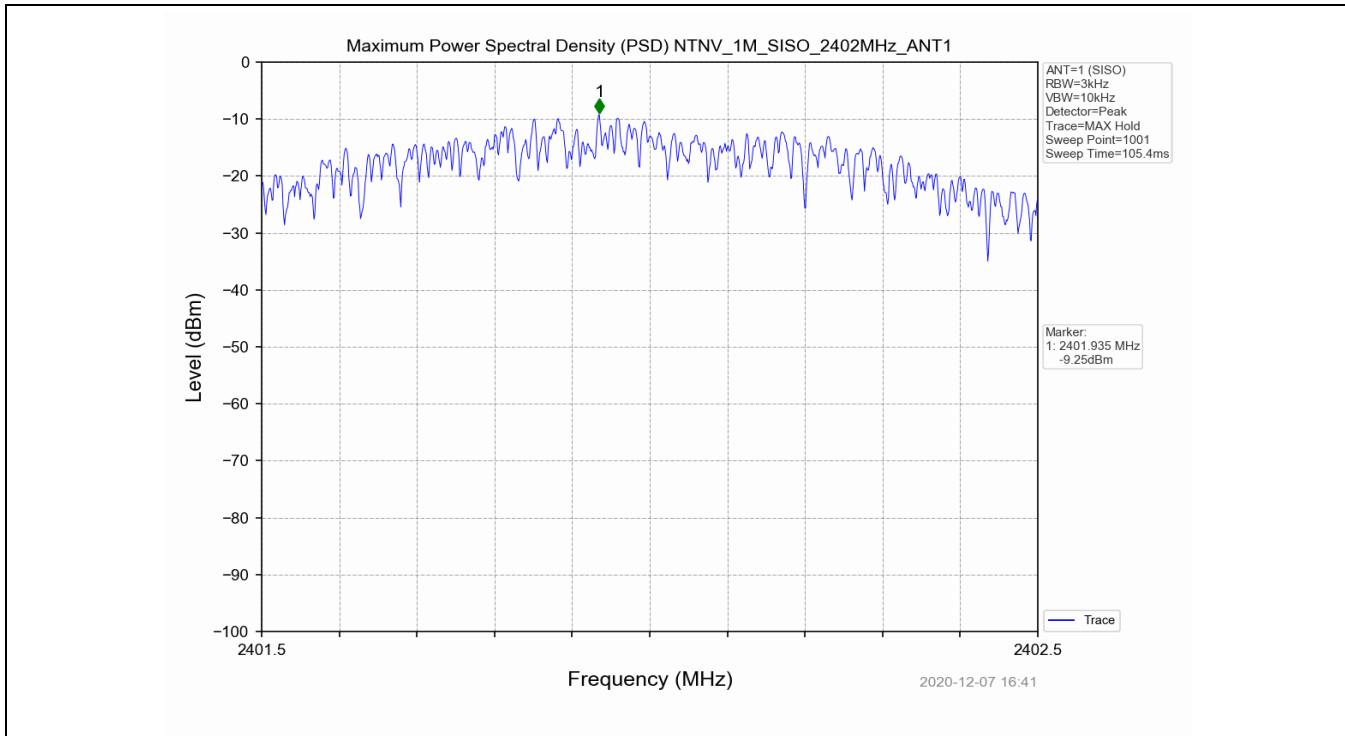
4. Maximum Power Spectral Density (PSD)

4.1 Test Result

Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/3KHz)	Limits (dBm/3kHz)	Verdict
			Ant 1		
1M	2402	SISO	-9.25	≤8	PASS
	2440	SISO	-11.09	≤8	PASS
	2480	SISO	-12.27	≤8	PASS
2M	2402	SISO	-11.93	≤8	PASS
	2440	SISO	-13.42	≤8	PASS
	2480	SISO	-14.42	≤8	PASS

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4.2 Test Graph

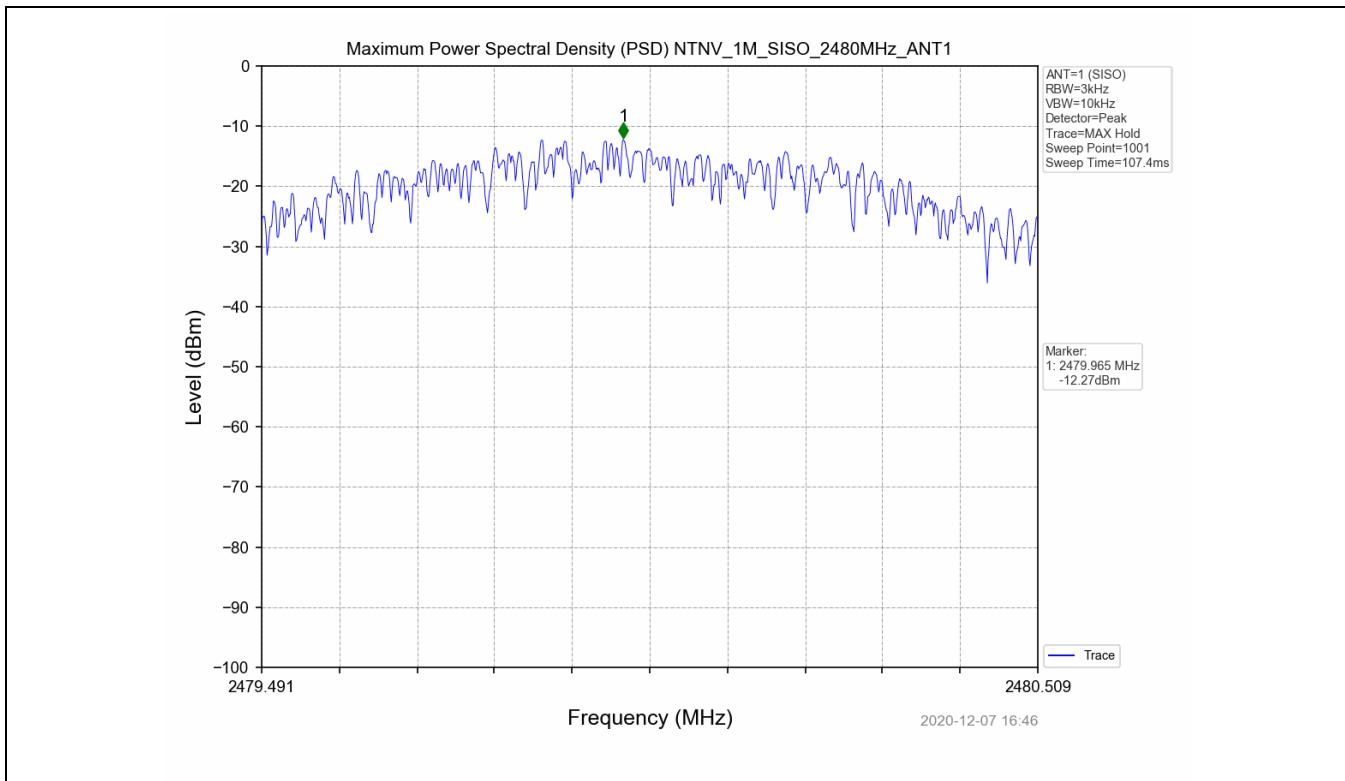
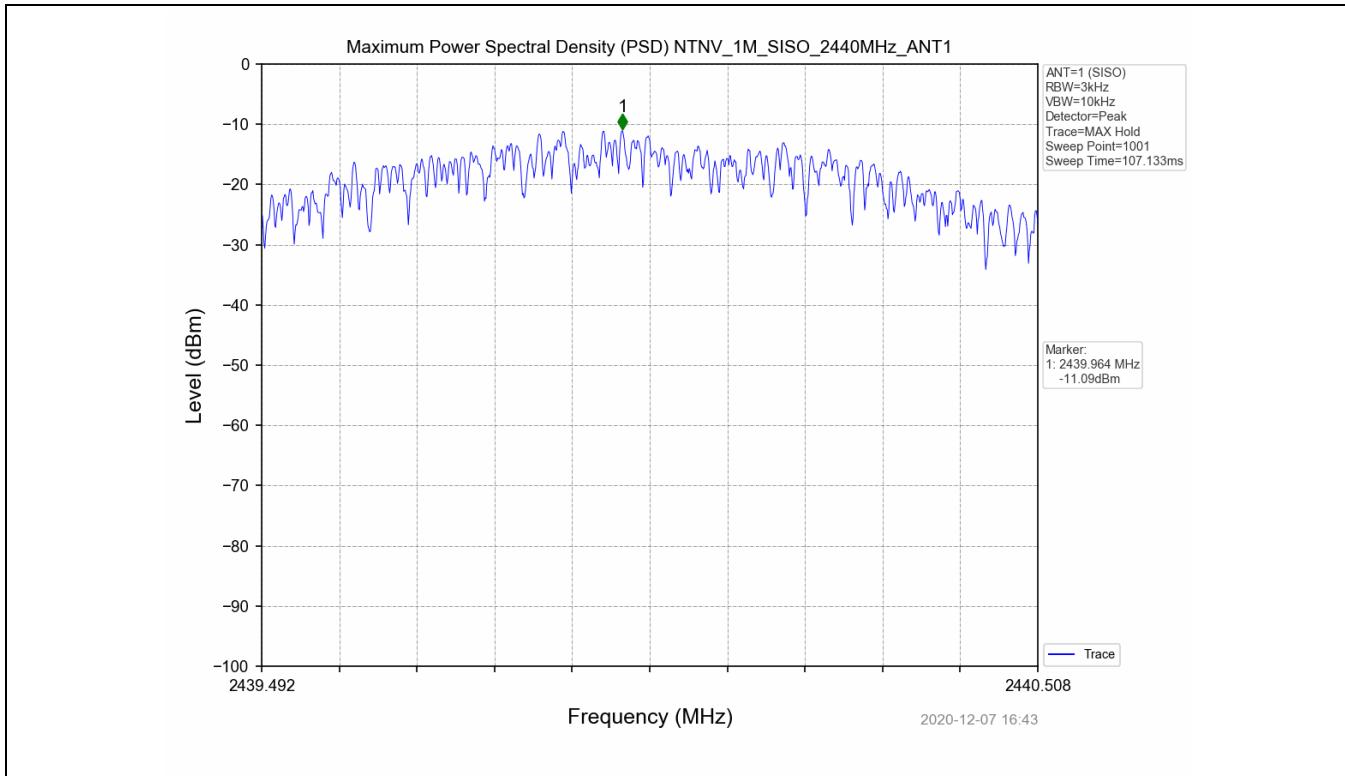
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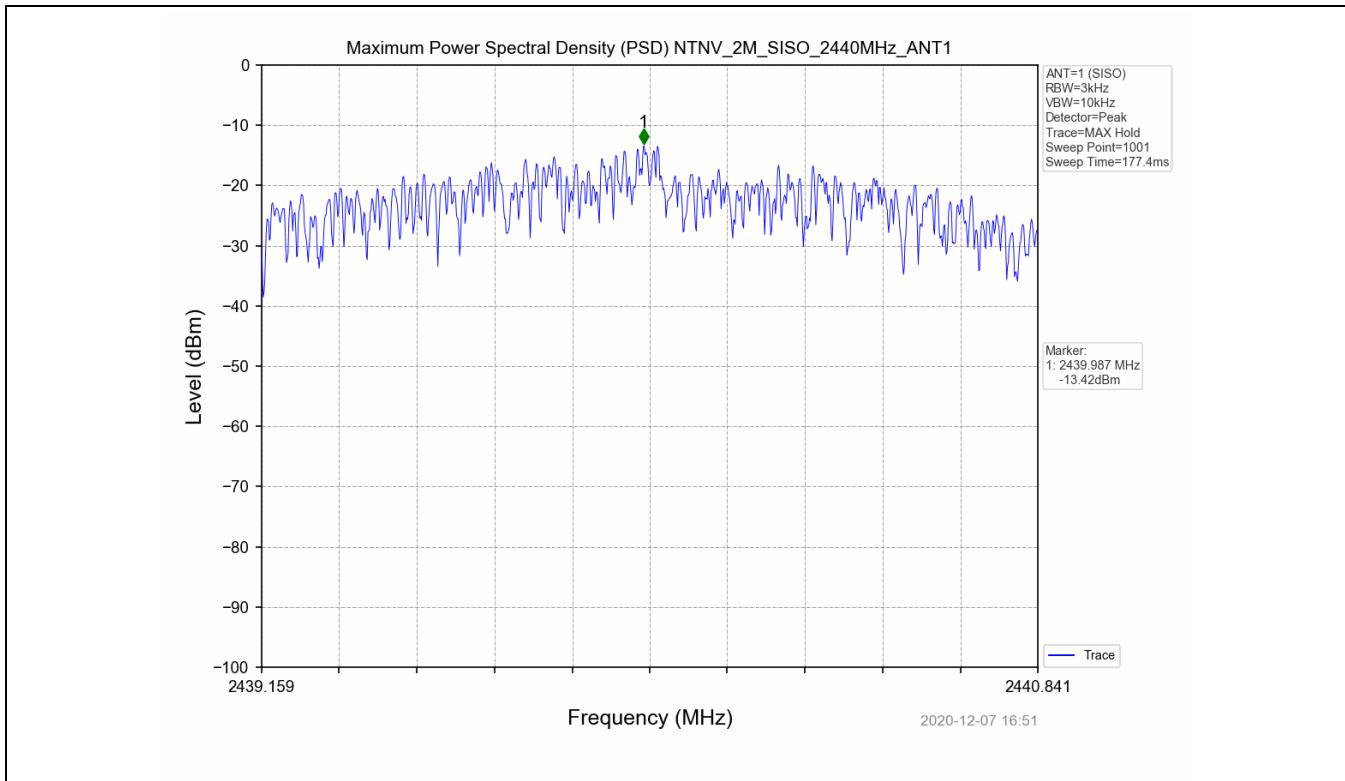
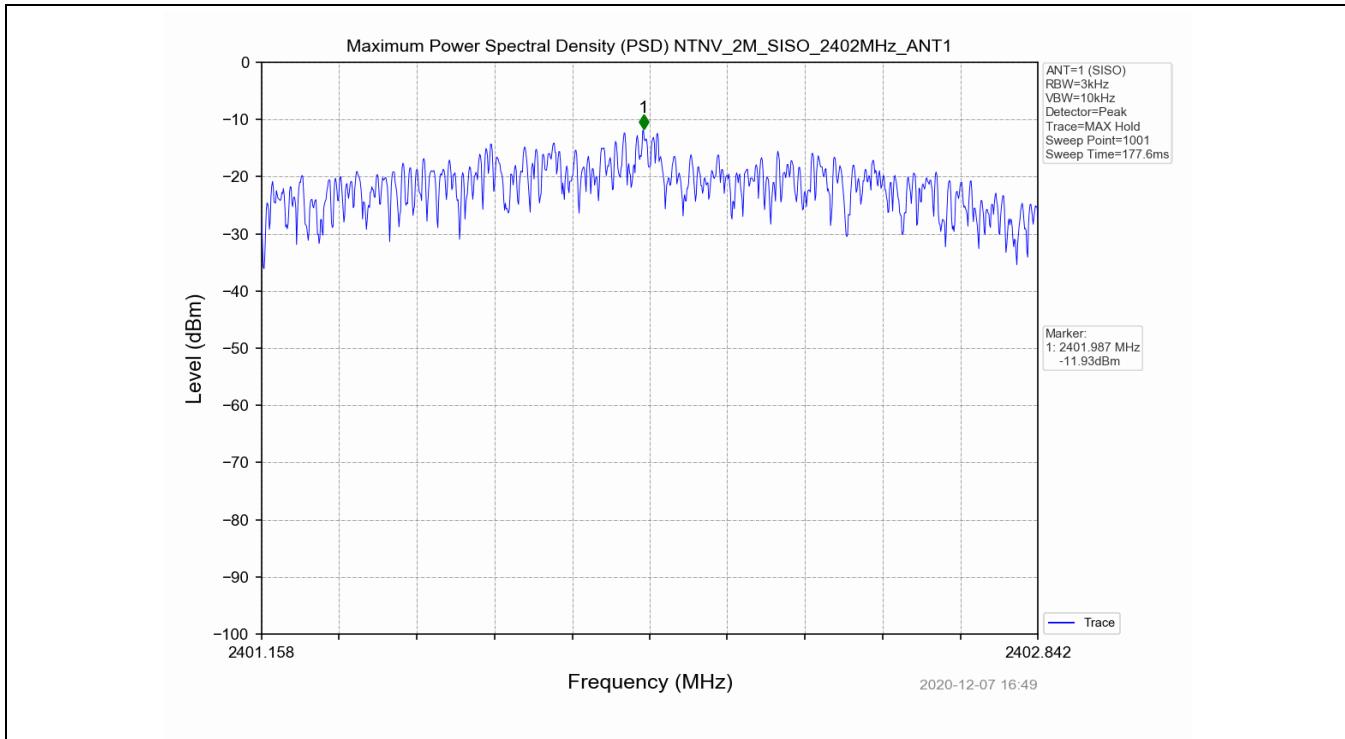
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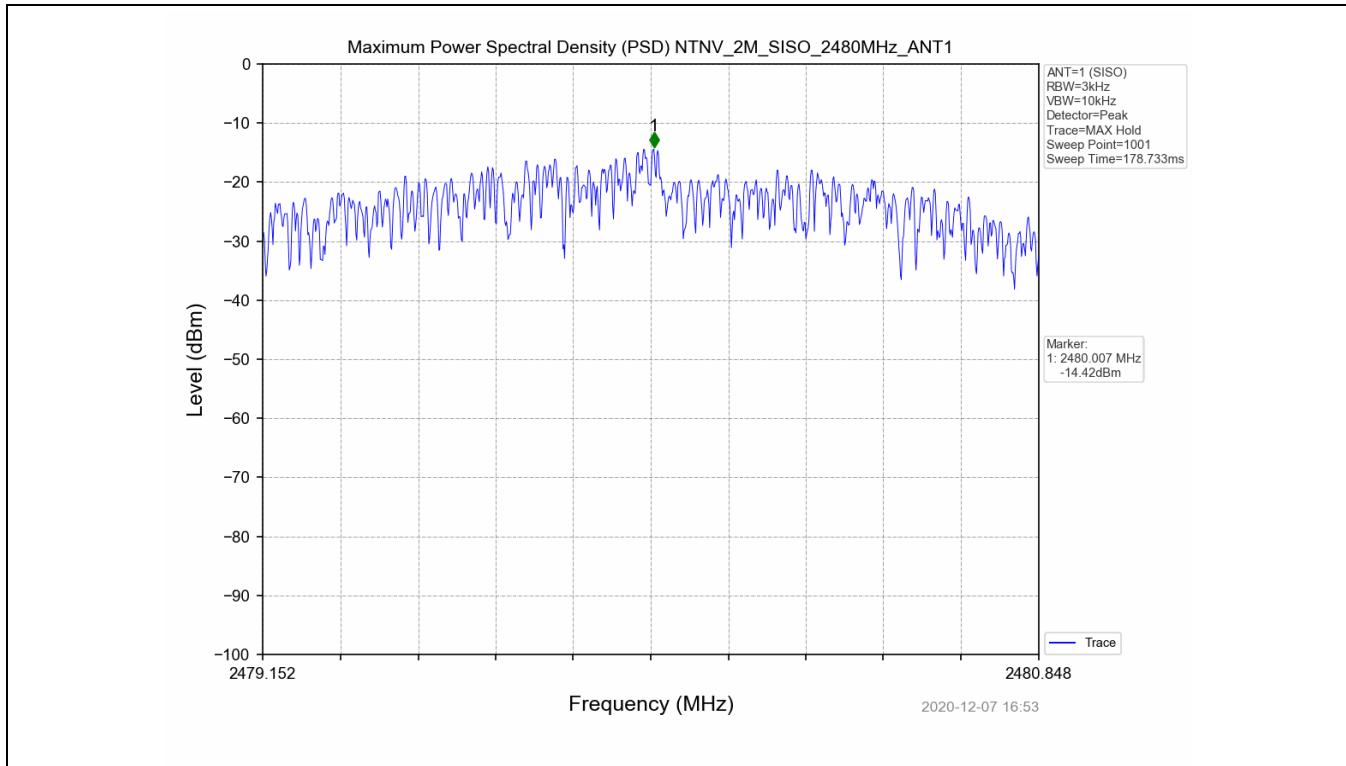
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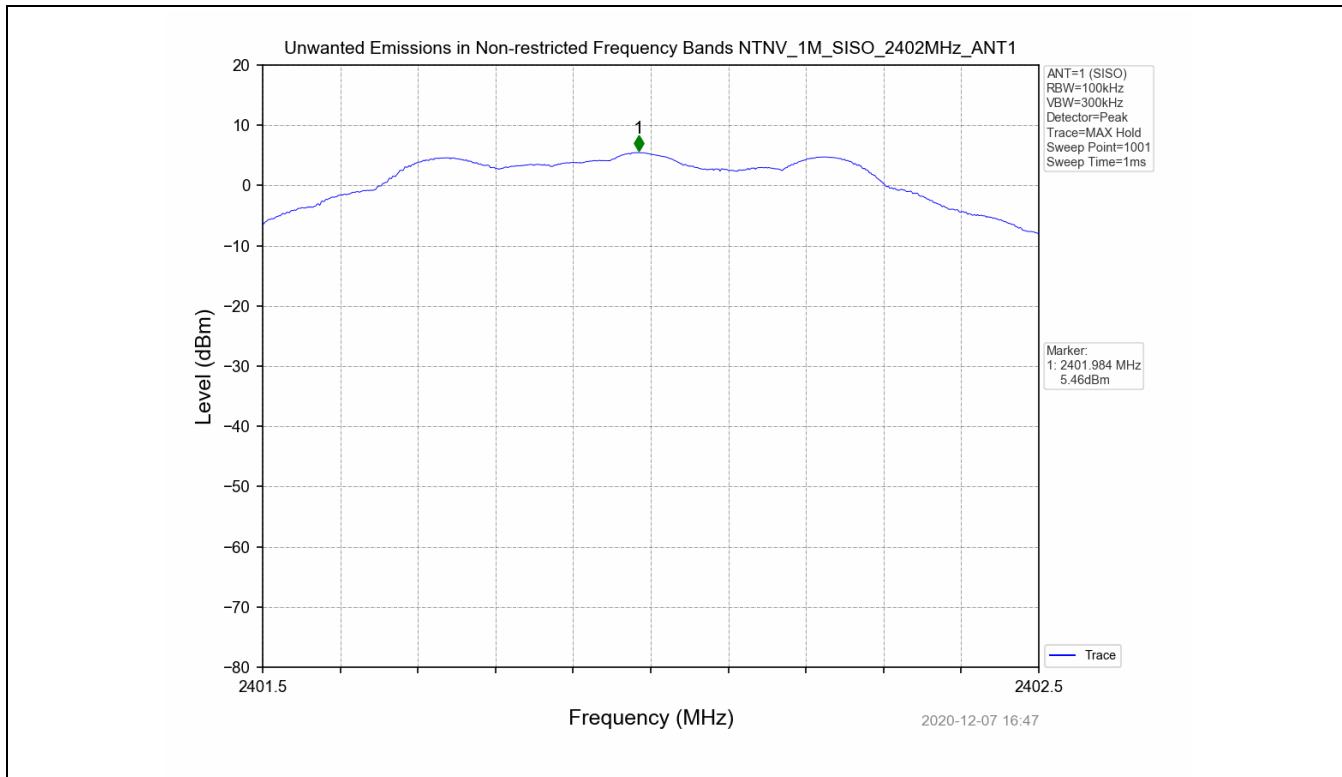
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5. Unwanted Emissions in Non-restricted Frequency Bands

5.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
1M	2402	SISO	1	Refer to test graph	-14.54	PASS
	2440	SISO	1	Refer to test graph	-14.54	PASS
	2480	SISO	1	Refer to test graph	-14.54	PASS
2M	2402	SISO	1	Refer to test graph	-14.54	PASS
	2440	SISO	1	Refer to test graph	-14.54	PASS
	2480	SISO	1	Refer to test graph	-14.54	PASS

5.2 Test Graph

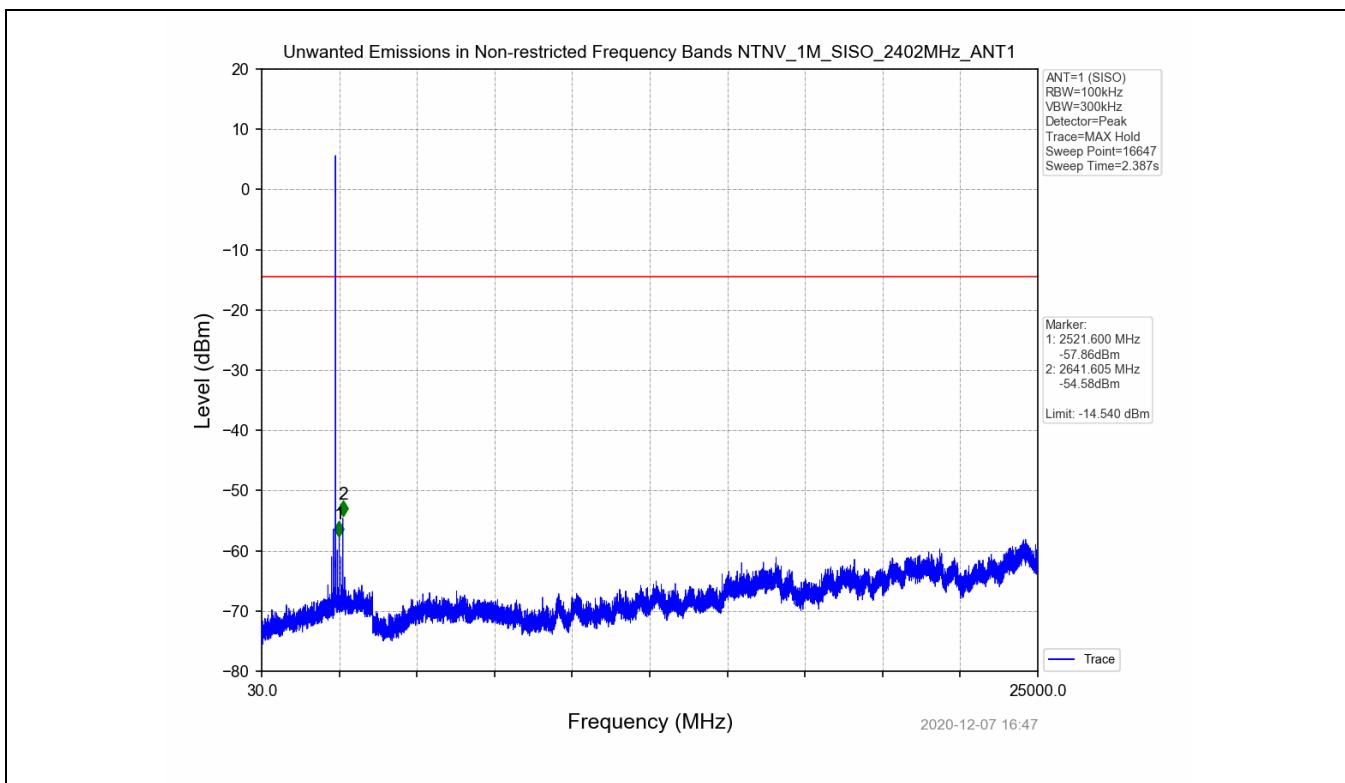
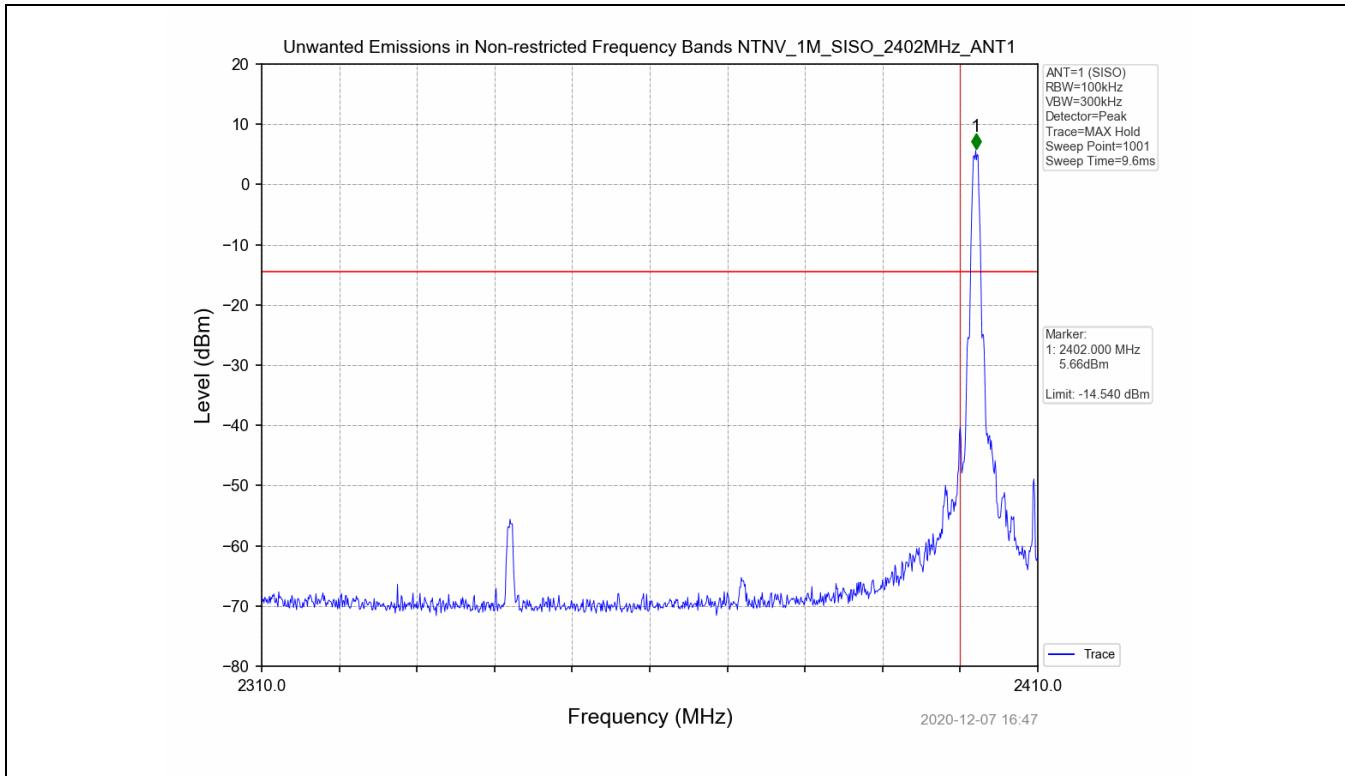


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Shenzhen Branch Inspection & Testing Services Laboratory

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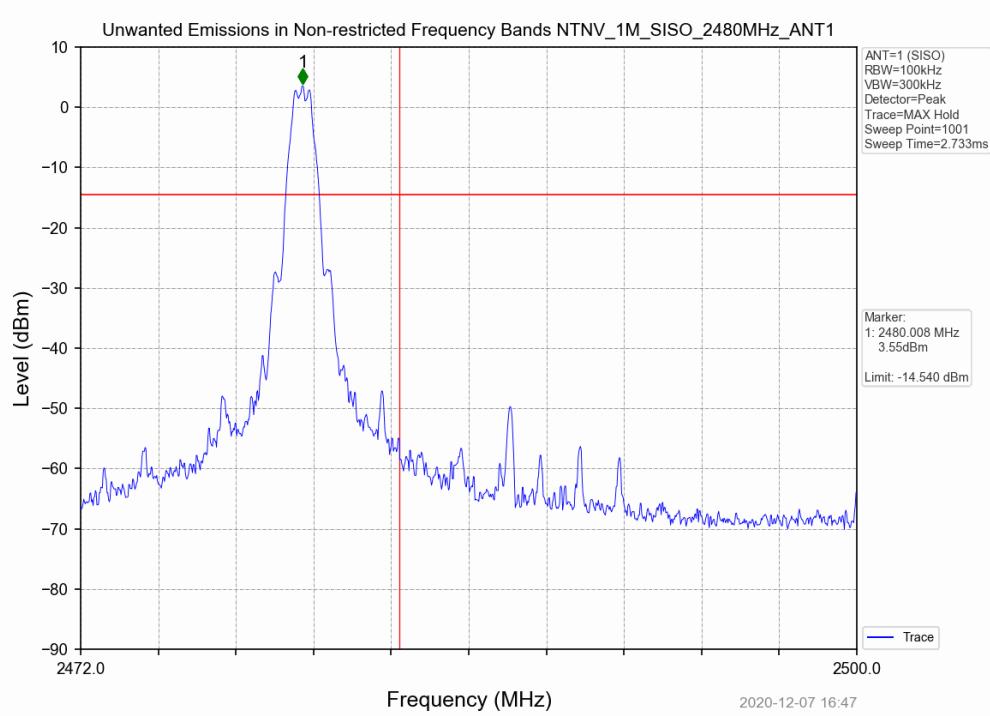
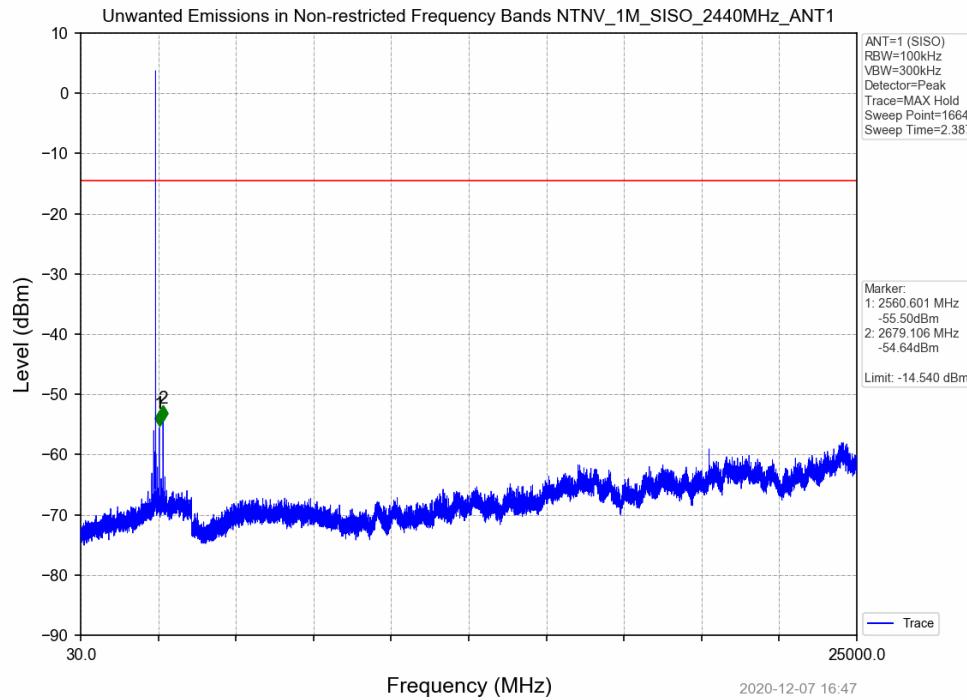
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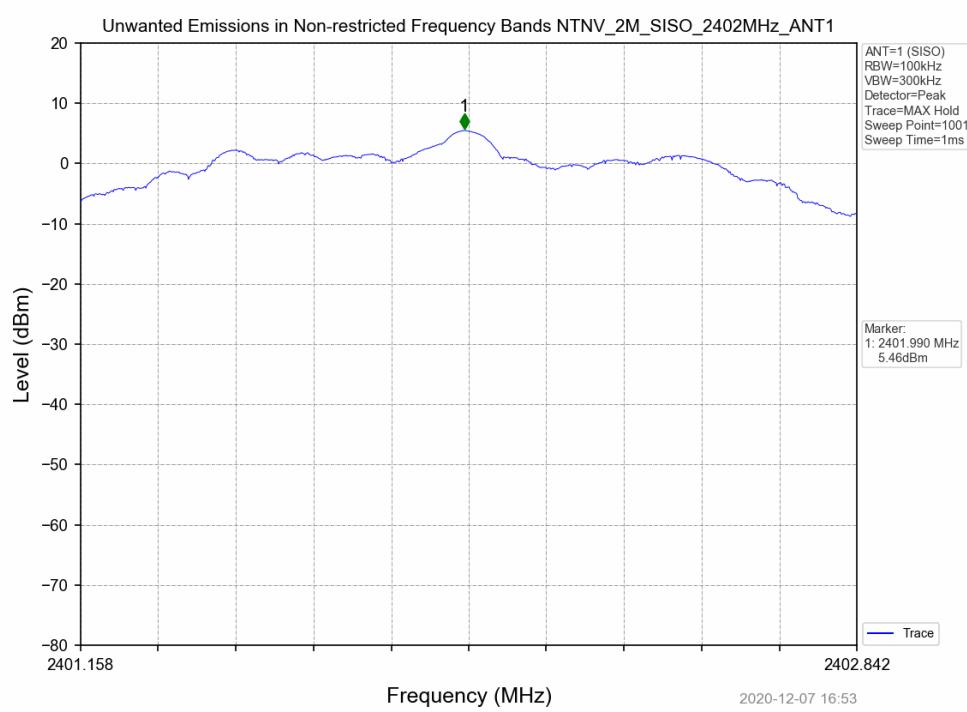
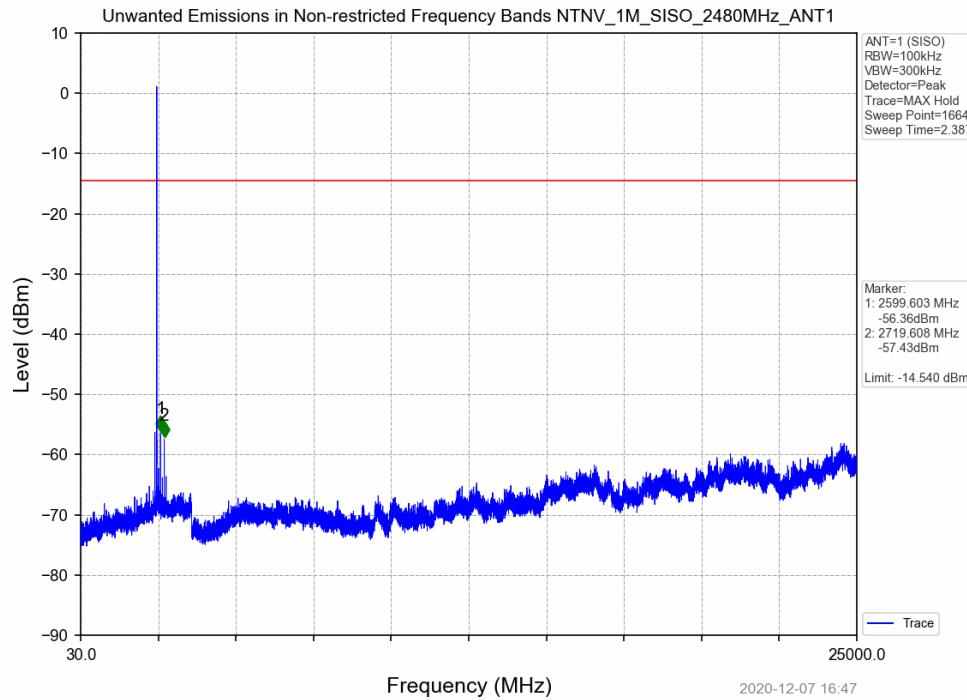
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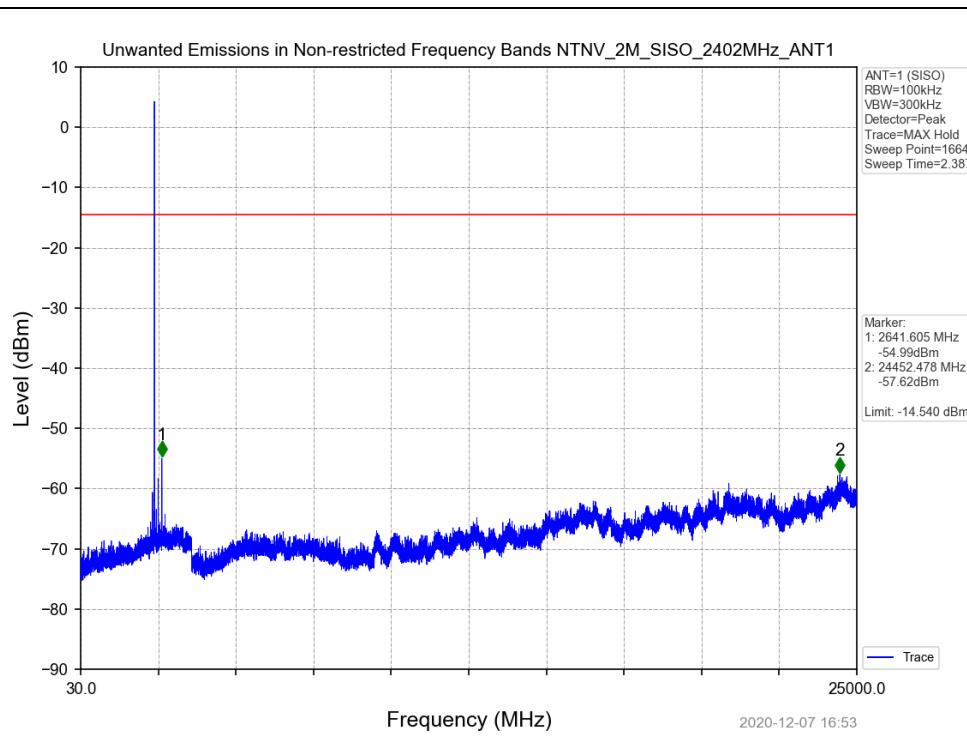
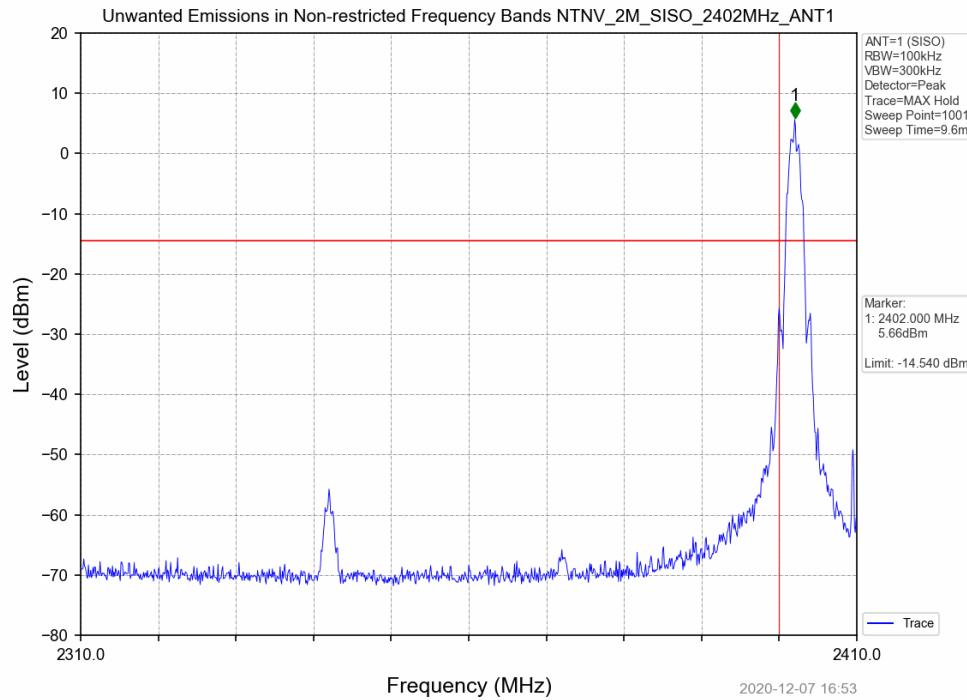
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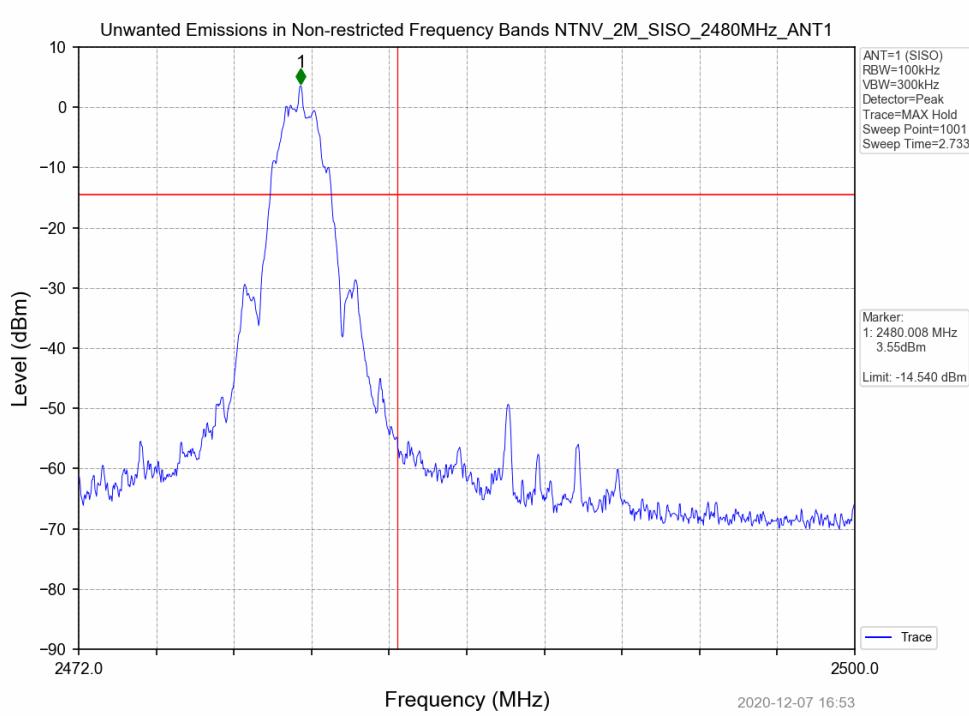
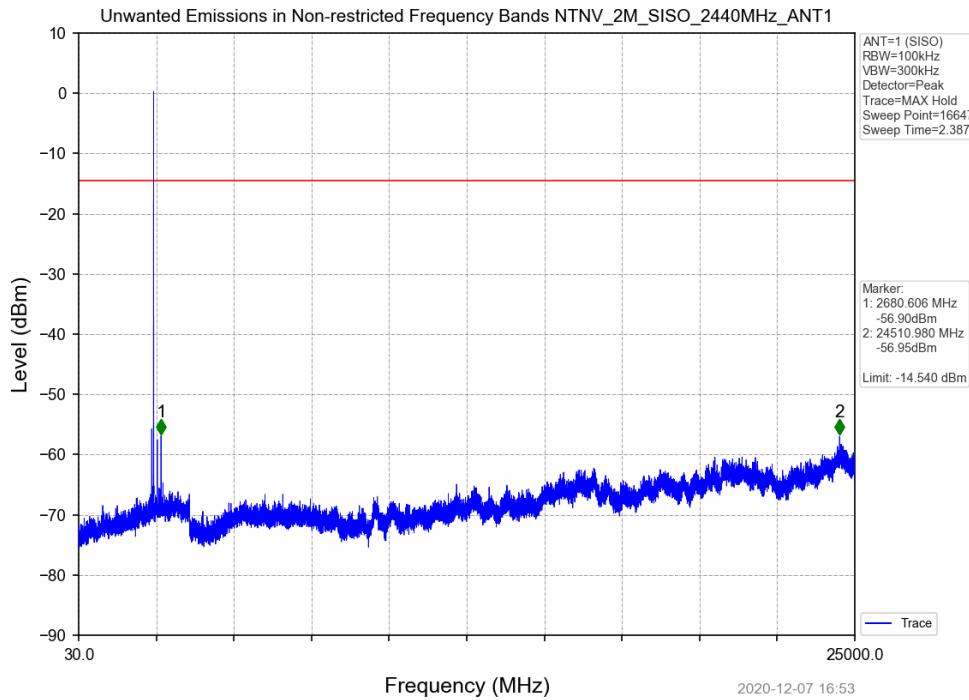
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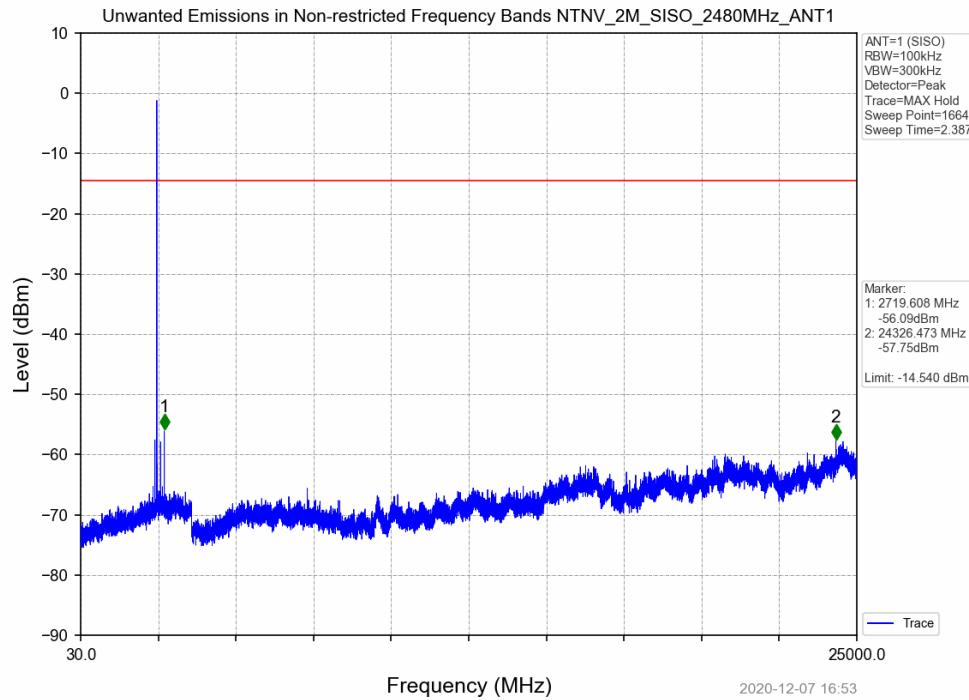
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