

Report No.: SZCR210402053902

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TEST REPORT

Application No.: SZCR2104020539AT

Applicant: UBTECH ROBOTICS CORP LTD

Address of Applicant: 16th and 22nd Floor, Block C1, Nanshan I Park, No.1001 Xueyuan Road,

Nanshan District, Shenzhen City, China

Manufacturer: UBTECH ROBOTICS CORP LTD

Address of Manufacturer: 16th and 22ND Floor, block C1 Nanshan I Park, NO.1001 Xueyuan Road,

Nanshan District, Shenzhen City, 518055, P.R.CHINA

Factory: UBTECH ROBOTICS CORP LTD BAOAN BRANCH

Address of Factory: 1-2Floor, Block B, Huilongda Industry Park, Shilongzai, Shiyan Street,

Baoan District, Shenzhen City, P.R.CHINA

Equipment Under Test (EUT):

EUT Name: ADIBOT-A
Model No.: ADAA201
Trade Mark: UBTECH

FCC ID: 2AHJX-ADAA201

Standard(s): 47 CFR Part 15, Subpart C 15.247

Date of Receipt: 2021-04-16

Date of Test: 2021-04-18 to 2021-06-05

Date of Issue: 2021-06-10

Test Result: Pass*

Keny Xu EMC Laboratory Manager



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



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	Revision Record						
Version	Chapter	Date	Modifier	Remark			
01		2021-06-10		Original			

Authorized for issue by:		
	(eo_li	
	Leo Li/Project Engineer	_
	Exic Fu	
	Eric Fu/Reviewer	_



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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		ANSI C63.10 (2013) Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass	
Minimum 6dB Bandwidth		ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass	
Power Spectrum Density		ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass	
Conducted Band Edges Measurement		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		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass	
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass	
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass	

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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General Information

4.1 Details of E.U.T.

Power supply:	DC 29V from adapter input AC 120V/60Hz
	Lithium Ion Battery: 25.6V 100Ah rechargeable battery which charged by adapter
Cable(s):	AC cable: 145cm unshielded
	DC cable:90cm shielded
Bluetooth Version:	V5.0 LE (LB-LINK module)
Data Rate:	1Mb/s & 2Mb/s
Operation Frequency:	2402MHz to 2480MHz
Modulation Type:	GFSK
Channel Spacing:	2MHz
Number of Channels:	40
Antenna Type:	Dipole Antenna(ANT2)
Antenna Gain:	2dBi
Bluetooth Version:	V5.1 LE (ABLUE module)
Data Rate:	1Mb/s & 2Mb/s
Operation Frequency:	2402MHz to 2480MHz
Modulation Type:	GFSK
Channel Spacing:	2MHz
Number of Channels:	40
Antenna Type:	FPC Antenna
Antenna Gain:	5.1dBi

4.2 Description of Support Units

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



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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 Below 1GHz	± 4.5dB
Radiated Spurious Emissions Above 1GHz	± 4.8dB

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:

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

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

FCC –Designation Number: 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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Equipment List

Conducted Emissions at AC Power Line (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	2021-03-24	2022-03-23	
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	2021-03-24	2022-03-25	

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	2021-03-23	2022-03-22
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2021-03-24	2022-03-23
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	2021-04-08	2022-04-07

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	2021-03-23	2022-03-22	
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2021-03-24	2022-03-23	
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	2021-04-08	2022-04-07	



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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	2021-03-23	2022-03-22	
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2021-03-24	2022-03-23	
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	2021-04-08	2022-04-07	

Conducted Band Edges Measurement					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	DC Power Supply Rohde & Schwarz		SEM011-04	2021-03-23	2022-03-22
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2021-03-24	2022-03-23
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	2021-04-08	2022-04-07

Conducted Spurious Emissions					
Equipment Manufacturer Model No Inventory No Cal Date					Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	wer Supply Rohde & Schwarz		SEM011-04	2021-03-23	2022-03-22
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2021-03-24	2022-03-23
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	2021-04-08	2022-04-07



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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	2021-03-26	2024-03-25
EXA Signal Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2021-02-01	2022-01-31
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2021-04-14	2024-04-13
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	2021-03-24	2022-03-23

Radiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	I FIS-IINDGBEN		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	2021-03-24	2022-03-23
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

Radiated Spurious Emissions Above 1GHz					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2021-03-26	2024-03-25
EXA Signal Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2021-02-01	2022-01-31
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2021-04-14	2024-04-13
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



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General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	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	2021-03-30	2022-03-29



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Radio Spectrum Technical Requirement 6

6.1 Antenna Requirement

6.1.1 Test Requirement:

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

6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

The use of a permanently attached antenna or of an antenna that use an unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

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.

This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site.

However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

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 5.1dBi for ABLUE module and 2dBi for LB-LINK module.

Antenna location: Refer to page 9, page 10 and page 11 of the internal photos and page 9 of the external photos.



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Radio Spectrum Matter Test Results 7

7.1 Conducted Peak Output Power

47 CFR Part 15, Subpart C 15.247(b)(3) Test Requirement Test Method: ANSI C63.10 (2013) Section 11.9.1

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
	1 for ≥50 hopping channels
902-928	0.25 for 25≤ hopping channels <50
	1 for digital modulation
	1 for ≥75 non-overlapping hopping channels
2400-2483.5	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: 20.7 °C Humidity: 51.6 % RH Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

7.1.2 Test IV	iouc bc.	Sonption
Pre-scan / Final test	Mode Code	Description
Pre-scan	01	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.(LB-LINK)
Final test	02	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.(LB-LINK)
Pre-scan	03	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.(ABLUE)
Pre-scan	04	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.(ABLUE)
Final test	05	Charge + TX mode(1Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.(ABLUE)
Final test	06	Charge + TX mode(2Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.(ABLUE)



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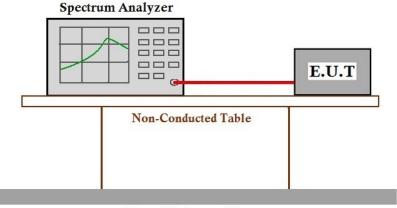
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7.1.3 Test Setup Diagram



Ground Reference Plane

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

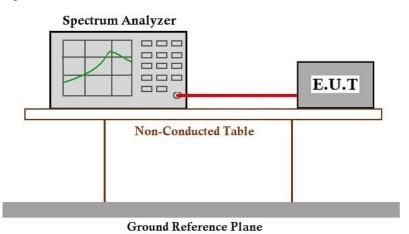
Operating Environment:

Temperature: 20.5 °C Humidity: 53.4 % RH Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

	· · · · · · · · · · · · · · · · · · ·					
Pre-scan / Final test	Mode Code	Description				
Final test	01	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.(LB-LINK)				
Final test	03	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.(ABLUE)				
Final test	04	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.(ABLUE)				

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 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

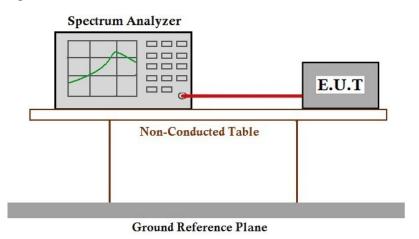
Operating Environment:

Temperature: 20.5 °C Humidity: 53.3 % RH Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description		
Final test	01	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.(LB-LINK)		
Final test	03	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.(ABLUE)		
Final test	04	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.(ABLUE)		

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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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: 20.5 °C Humidity: 52.7 % RH Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

1.4.2 163t W	loue De	scription
Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.(LB-LINK)
Final test	03	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.(ABLUE)
Final test	04	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.(ABLUE)



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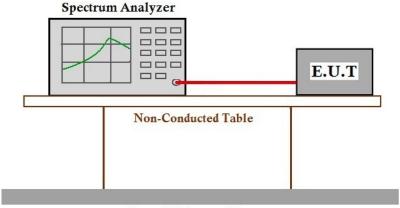
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7.4.3 Test Setup Diagram



Ground Reference Plane

7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details





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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: 20.5 °C Humidity: 53.1 % RH Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

1.3.2 TEST IV	ioue Des	scription
Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.(LB-LINK)
Final test	03	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.(ABLUE)
Final test	04	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.(ABLUE)



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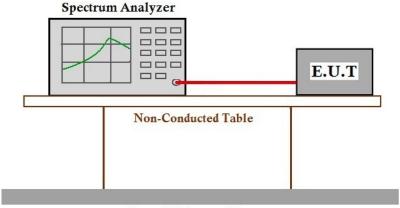
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7.5.3 Test Setup Diagram



Ground Reference Plane

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

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.

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 54.8 % RH Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

71012 10011		
Pre-scan / Final test	Mode Code	Description
Pre-scan	01	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.(LB-LINK)
Final test	02	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.(LB-LINK)
Pre-scan	03	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.(ABLUE)
Pre-scan	04	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.(ABLUE)
Final test	05	Charge + TX mode(1Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.(ABLUE)
Final test	06	Charge + TX mode(2Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.(ABLUE)



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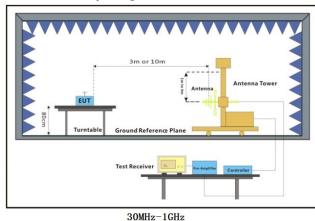
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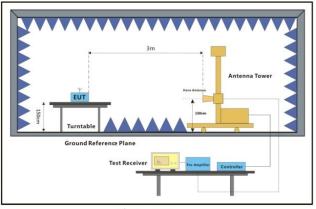


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7.6.3 Test Setup Diagram





Above 1GHz

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.
- i. 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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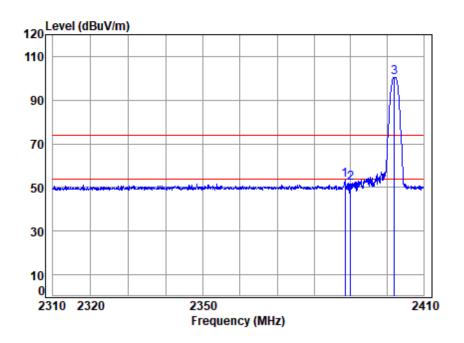
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Test Mode: 02; Polarity: Horizontal; Modulation: GFSK; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT

Mode : 2402 Band edge

Note : BLE 1M

	Freq		Ant Factor						Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2388.445	4.34	28.87	40.42	60.47	53.26	74.00	-20.74	Peak
2	2390.000	4.34	28.88	40.42	59.01	51.81	74.00	-22.19	peak
3	. 2402.000	4.36	28.90	40.43	107.54	100.37	74.00	26.37	peak



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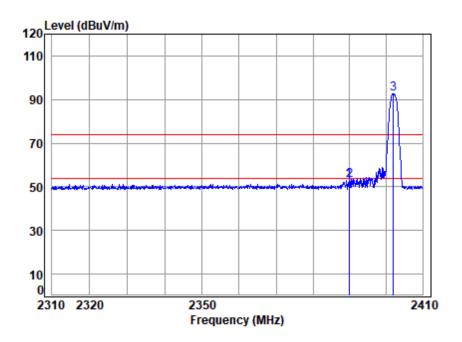
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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 2402 Band edge

 RLF 1M Note

OLC										
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2389.761	4.34	28.88	40.42	60.29	53.09	74.00	-20.91	peak	
2	2390.000	4.34	28.88	40.42	60.23	53.03	74.00	-20.97	peak	
3	2/02 000	4 36	28 90	10 13	99 62	92 /5	7/ 00	12 /5	neak	



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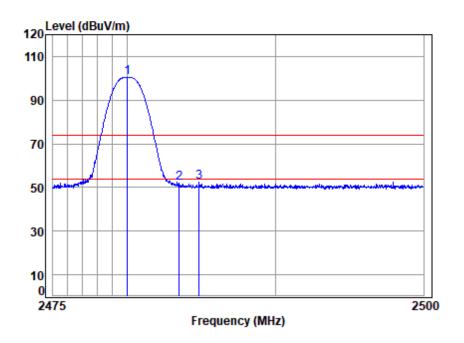
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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT

Mode : 2480 Band edge

Note : BLE 1M

	Freq		Ant Factor						Remark	
	MHz	dB	dB/m	——dB	dBuV	dBuV/m	dBuV/m	——dB		-
1.	2480.000	4.49	29.06	40.47	107.27	100.35	74.00	26.35	peak	
2	2483.500	4.49	29.07	40.47	59.12	52.21	74.00	-21.79	peak	
3	2484.845	4.50	29.07	40.47	59.39	52.49	74.00	-21.51	peak	



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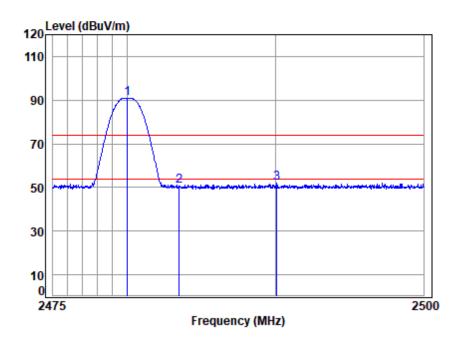
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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 2480 Band edge

Note : BLE 1M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1.	2480.000	4.49	29.06	40.47	97.81	90.89	74.00	16.89	peak
2	2483.500	4.49	29.07	40.47	57.36	50.45	74.00	-23.55	peak
3	2490.070	4.50	29.08	40.47	59.02	52.13	74.00	-21.87	peak



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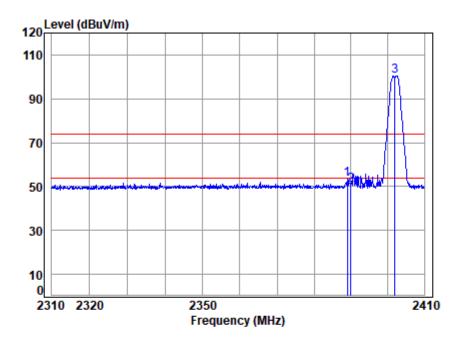
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Test Mode: 02; Polarity: Horizontal; Modulation: GFSK; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT

Mode : 2402 Band edge

Note : BLE 2M

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2388.951	4.34	28.88	40.42	60.41	53.21	74.00	-20.79	Peak	
2	2390.000	4.34	28.88	40.42	57.76	50.56	74.00	-23.44	peak	
3.	2402.000	4.36	28.90	40.43	107.57	100.40	74.00	26.40	peak	



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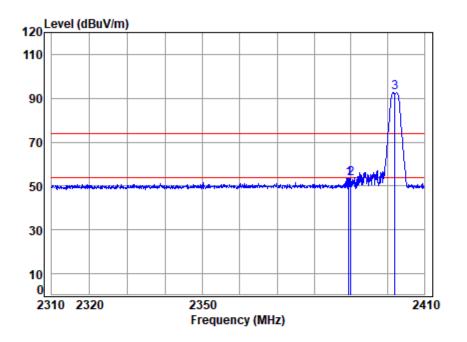
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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 20539AT Job No

Mode : 2402 Band edge

Note : BLF 2M

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2389.356	4.34	28.88	40.42	60.81	53.61	74.00	-20.39	Peak	
2	2390.000	4.34	28.88	40.42	60.56	53.36	74.00	-20.64	peak	
3	2402 000	4 36	28 90	40 43	99 88	92 71	74 99	18 71	neak	



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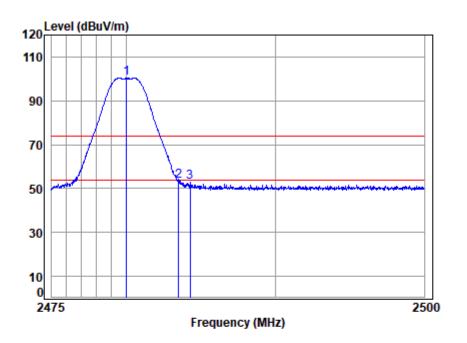
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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT

Mode : 2480 Band edge

Note : BLE 2M

> 1 2 3

-			Preamp					
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
. 2480.000	4.49	29.06	40.47	107.27	100.35	74.00	26.35	peak
2483.500	4.49	29.07	40.47	60.13	53.22	74.00	-20.78	peak
2484 271	4 50	29 07	40 47	59 60	52 70	74 00	-21 30	neak



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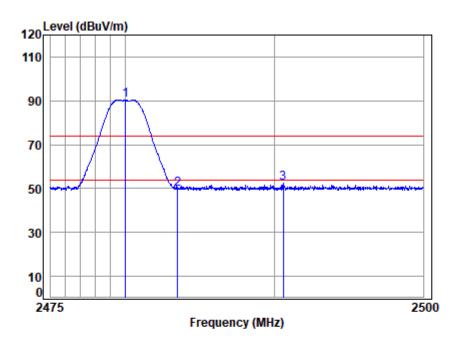
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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber Condition: 3m VERTICAL Job No : 20539AT

Mode : 2480 Band edge

Note : BLE 2M

> 2 3

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2480.000 2483.500								•
2490 571								•



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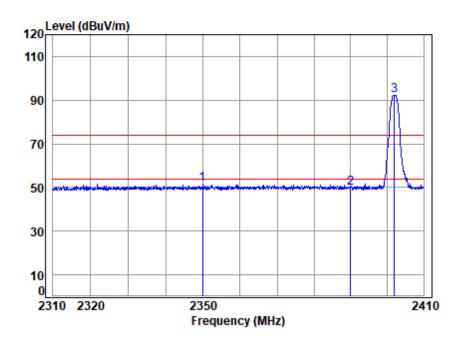
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Report No.: SZCR210402053902

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Test Mode: 05; Polarity: Horizontal; Modulation: GFSK; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT

Mode : 2402 Band edge

Note : BLE 1M

> 1 2 3

	Cable	Ant	Preamp	Read		Limit	0ver	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2349.890	4.28	28.79	40.40	58.89	51.56	74.00	-22.44	peak
2390.000								•
. 2402.000								•



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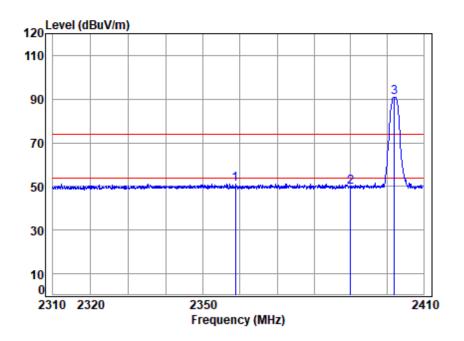
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Report No.: SZCR210402053902

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Test Mode: 05; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 2402 Band edge

Note : BLE 1M

> 1 2

Fnoa			Preamp					Domonie	
	L055	-actor	Factor		revei	Line		Kemark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
2358.771	4.29	28.81	40.40	58.60	51.30	74.00	-22.70	peak	
2390.000	4.34	28.88	40.42	56.84	49.64	74.00	-24.36	peak	
2402 000	4 36	28 90	40 43	98 97	90 90	74 00	16 90	neak	



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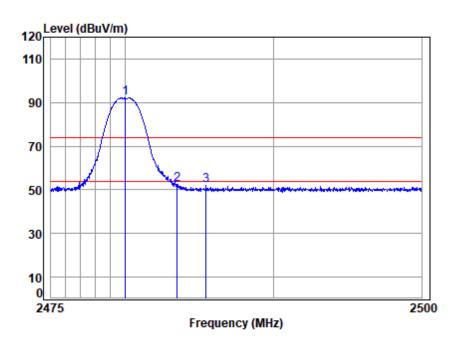
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Test Mode: 05; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT

Mode : 2480 Band edge

Note : BLE 1M

		Freq			Preamp Factor					Remark
	•	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		2480.000	4.49	29.06	40.47	98.90	91.98	74.00	17.98	peak
2		2483.500	4.49	29.07	40.47	59.35	52.44	74.00	-21.56	peak
3		2485.444	4.50	29.07	40.47	58.76	51.86	74.00	-22.14	peak



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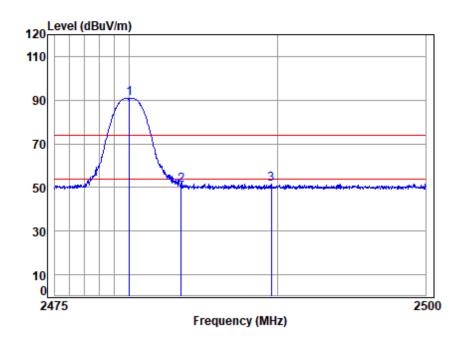
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Report No.: SZCR210402053902

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Test Mode: 05; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 2480 Band edge

Note : BLE 1M

> 1 2 3

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	2480.000	4.49	29.06	40.47	97.67	90.75	74.00	16.75	peak	
2	2483.500	4.49	29.07	40.47	57.89	50.98	74.00	-23.02	peak	
	2489 570	4 50	29 08	40 47	58 52	51 63	74 00	-22 37	neak	



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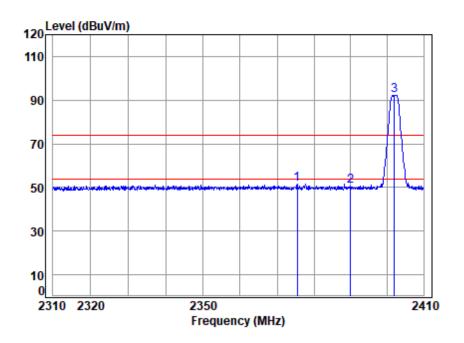
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Test Mode: 06; Polarity: Horizontal; Modulation: GFSK; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL

: 20539AT Job No

Mode : 2402 Band edge

Note : BLE 2M

> 1 2

Enoa			Preamp Factor					Romank	
						LINE		Kelliark	_
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
2375.423	4.32	28.85	40.41	58.69	51.45	74.00	-22.55	peak	
2390.000	4.34	28.88	40.42	57.66	50.46	74.00	-23.54	peak	
2402 000	4 36	28 90	40 43	99 /11	92 24	74 00	18 2/	neak	



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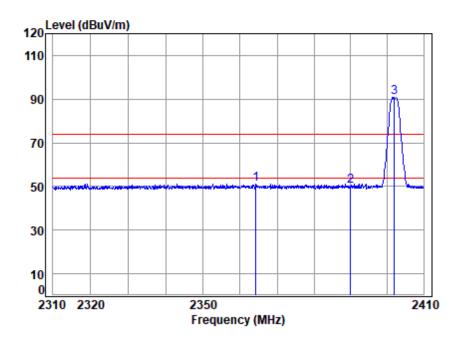
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Test Mode: 06; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 2402 Band edge

Note : BLE 2M

> 1 2

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2364.275 2390.000								•
2/02 000	4 36	28 90	10 13	97 9/	90 77	7/ 00	16 77	neak



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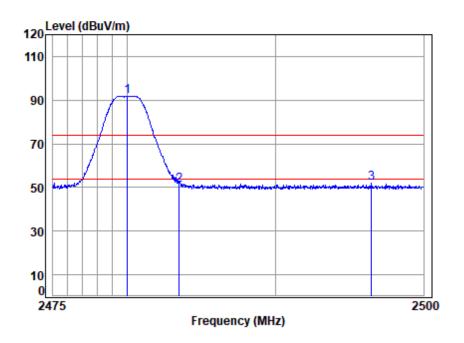
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Test Mode: 06; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT

Mode : 2480 Band edge

Note : BLE 2M

> 1 2 3

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2480.000								•
2483.500	4.49	29.07	40.47	58.10	51.19	74.00	-22.81	peak
2496.460	4.51	29.09	40.47	58.91	52.04	74.00	-21.96	peak



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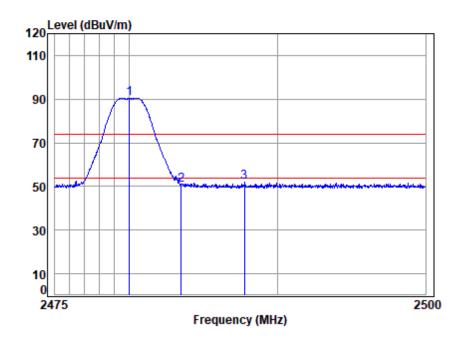
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Test Mode: 06; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 2480 Band edge

: BLE 2M Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1.	2480.000	4.49	29.06	40.47	97.45	90.53	74.00	16.53	peak
2	2483.500	4.49	29.07	40.47	57.74	50.83	74.00	-23.17	peak
3	2487.769	4.50	29.08	40.47	58.99	52.10	74.00	-21.90	peak



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7.7 Radiated Spurious Emissions Below 1GHz

47 CFR Part 15, Subpart C 15.205 & 15.209 Test Requirement

Test Method: ANSI C63.10 (2013) Section 6.4,6.5

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
960-1000	500	3

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: Atmospheric Pressure: 1010 mbar 25.2 °C Humidity: 50.3 % RH

7.7.2 Test Mode Description

1.1.2 TESLIV	7.7.2 Test Mode Description										
Pre-scan / Final test	Mode Code	Description									
Pre-scan	01	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.(LB-LINK)									
Final test	02	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.(LB-LINK)									
Pre-scan	03	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.(ABLUE)									
Pre-scan	04	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.(ABLUE)									
Final test	05	Charge + TX mode(1Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.(ABLUE)									
Final test	06	Charge + TX mode(2Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.(ABLUE)									



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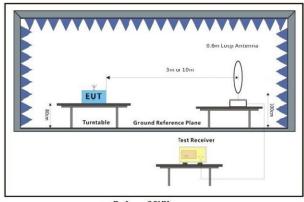
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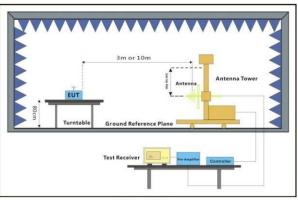


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7.7.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz

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 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. 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.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete. Remark:
- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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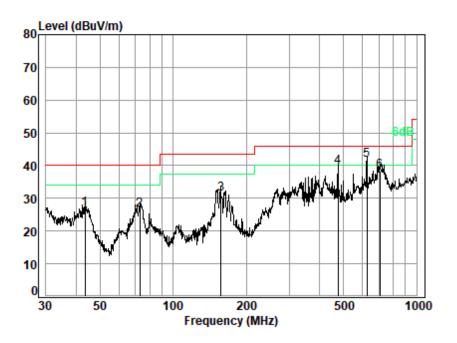
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Test Mode: 05; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

: 20539AT Job No.

Test Mode: 05

		Read	Ant	Cable	Preamp		Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
_									
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	43.51	37.27	16.49	0.70	27.70	26.76	40.00	-13.24	QP
2	72.85	40.78	12.46	0.92	27.64	26.52	40.00	-13.48	QP
3	157.01	42.32	15.20	1.17	27.31	31.38	43.50	-12.12	QP
4	475.50	40.76	23.99	2.45	27.71	39.49	46.00	-6.51	QP
5 q	625.08	40.30	26.60	2.75	28.07	41.58	46.00	-4.42	QP
6	706.70	36.15	27.24	2.93	27.90	38.42	46.00	-7.58	OP



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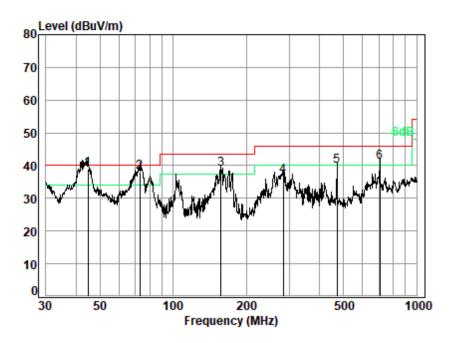
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Test Mode: 05; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

: 20539AT Job No.

Test Mode: 05

	louc. Os								
		Read	Ant	Cable	Preamp		Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
_	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 q	44.74	49.96	15.97	0.70	27.69	38.94	40.00	-1.06	QP
2	73.10	52.41	12.44	0.93	27.64	38.14	40.00	-1.86	QP
3	157.01	49.91	15.20	1.17	27.31	38.97	43.50	-4.53	QP
4	282.99	43.34	18.37	1.88	26.91	36.68	46.00	-9.32	QP
5	472.18	41.25	23.75	2.45	27.69	39.76	46.00	-6.24	QP
6	706.70	38.65	27.24	2.93	27.90	40.92	46.00	-5.08	OP



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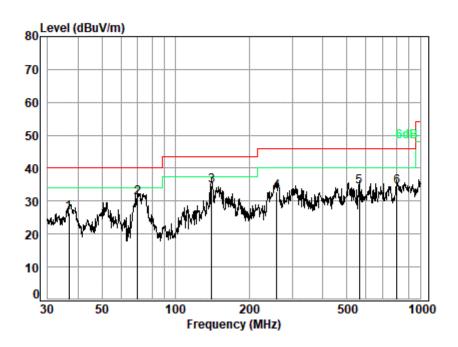
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Test Mode: 06; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 20539AT

Test Mode: 06

	Freq	Ant Factor		Preamp Factor					
_	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	36.64	19.54	0.67	27.49	33.69	26.41	40.00	-13.59	QP
2	70.09	12.69	0.80	27.43	44.98	31.04	40.00	-8.96	QP
3 q	140.34	13.45	1.15	27.18	47.30	34.72	43.50	-8.78	QP
4	259.23	18.11	1.71	26.79	39.69	32.72	46.00	-13.28	QP
5	562.66	25.00	2.63	27.79	34.47	34.31	46.00	-11.69	QP
6	804.60	27.77	3.31	27.47	30.75	34.36	46.00	-11.64	OP



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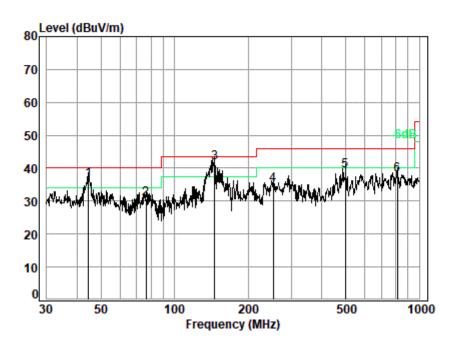
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Test Mode: 06; Polarity: Vertical



Site : chamber Condition: 3m VERTICAL

Job No. : 20539AT

Test Mode: 06

	Freq	Ant Factor	Cable Loss						Remark
_	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	44.59	16.02	0.70	27.47	47.28	36.53	40.00	-3.47	QP
2	76.51	12.37	1.07	27.42	44.73	30.75	40.00	-9.25	QP
3 q	145.86	14.17	1.15	27.16	53.47	41.63	43.50	-1.87	QP
4	252.95	18.17	1.66	26.81	41.99	35.01	46.00	-10.99	QP
5	499.42	24.11	2.50	27.58	40.36	39.39	46.00	-6.61	QP
6	813.11	27.90	3.33	27.43	34.22	38.02	46.00	-7.98	QP



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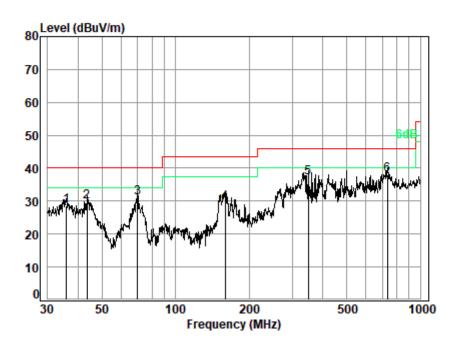
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Test Mode: 02; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

734.49 27.86

Job No. : 20539AT

Test Mode: 02 : 1M

1

2

3

4

5

6 q

Ant Cable Preamp Limit 0ver Read Freq Factor Loss Factor Level Level Line Limit Remark MHz dB/m dB dB dBuV dBuV/m dBuV/m dB 28.60 40.00 -11.40 QP 35.75 19.85 35.58 0.66 27.49 43.51 16.49 0.70 27.47 40.04 29.76 40.00 -10.24 QP 70.09 12.69 0.80 27.43 44.88 30.94 40.00 -9.06 QP 43.50 -14.05 QP 159.23 15.35 1.17 27.10 40.03 29.45 2.15 26.96 41.14 37.21 348.03 20.88 46.00 -8.79 QP



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3.04 27.62 34.83 38.11 46.00 -7.89 QP

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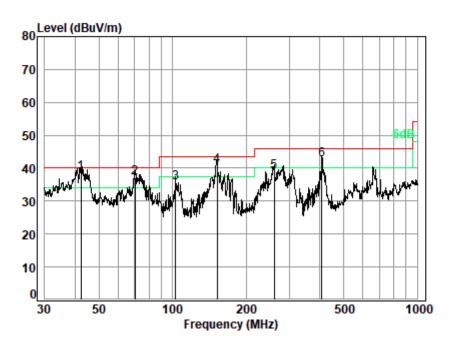
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Report No.: SZCR210402053902

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Test Mode: 02; Polarity: Vertical



Site : chamber Condition: 3m VERTICAL

Job No. : 20539AT

Test Mode: 02 : 1M

2

3

4

5

Ant Cable Preamp Read Limit 0ver Freq Factor Loss Factor Level Level Line Limit Remark MHz dB/m dB dB dBuV dBuV/m dBuV/m dB 17.22 0.70 27.47 48.12 38.57 40.00 42.30 -1.43 QP 1 q 70.34 12.67 0.81 27.43 51.09 37.14 40.00 -2.86 QP 103.08 13.90 1.10 27.38 47.94 35.56 43.50 -7.94 QP 51.94 40.82 43.50 152.13 14.85 1.16 27.13 -2.68 QP 260.14 18.11 1.72 26.79 45.89 38.93 46.00 -7.07 QP 2.32 27.23 45.97 42.68 46.00 407.51 21.62 -3.32 QP



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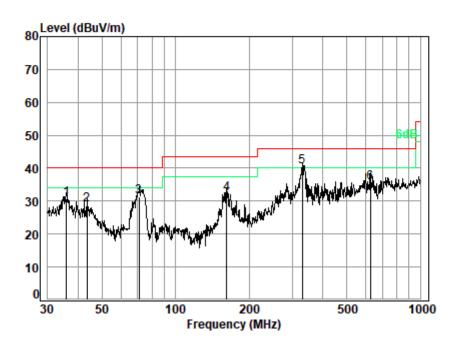
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Test Mode: 02; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 20539AT

Test Mode: 02

: 2M

		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
_									
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
	25.75	40.05	0.66	07.40	37.50	20.60	40.00	0.40	00
1	35./5	19.85	0.66	27.49	37.58	30.60	40.00	-9.40	QР
2	43.51	16.49	0.70	27.47	39.04	28.76	40.00	-11.24	QP
3	71.08	12.59	0.85	27.43	45.27	31.28	40.00	-8.72	QP
4	162.04	15.44	1.17	27.09	42.68	32.20	43.50	-11.30	QP
5 q	330.19	20.20	2.10	26.87	44.88	40.31	46.00	-5.69	QP
6	625.08	26.60	2.75	27.84	34.07	35.58	46.00	-10.42	QP



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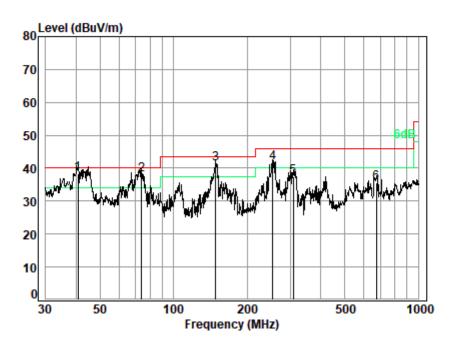
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Test Mode: 02; Polarity: Vertical



Site : chamber Condition: 3m VERTICAL

Job No. : 20539AT

Test Mode: 02 : 2M

2

3

4

5

Ant Cable Preamp Read Limit 0ver Freq Factor Loss Factor Level Level Line Limit Remark MHz dB/m dB dB dBuV dBuV/m dBuV/m dB 40.70 17.79 0.70 27.48 47.44 38.45 40.00 -1.55 QP 1 q 73.88 12.41 0.96 27.43 51.98 37.92 40.00 -2.08 QP 148.96 14.57 1.16 27.15 52.67 41.25 43.50 -2.25 QP 46.00 253.84 18.16 1.67 26.81 48.63 41.65 -4.35 QP 308.91 2.03 26.75 42.79 37.44 46.00 -8.56 QP 19.37 2.85 27.74 33.34 35.58 46.00 -10.42 QP 672.84 27.13



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7.8 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.6

Measurement Distance: 3m

Limit:

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

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 54.9 % RH Atmospheric Pressure: 1010 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	01	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.(LB-LINK)
Final test	02	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.(LB-LINK)
Pre-scan	03	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.(ABLUE)
Pre-scan	04	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.(ABLUE)
Final test	05	Charge + TX mode(1Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.(ABLUE)
Final test	06	Charge + TX mode(2Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.(ABLUE)



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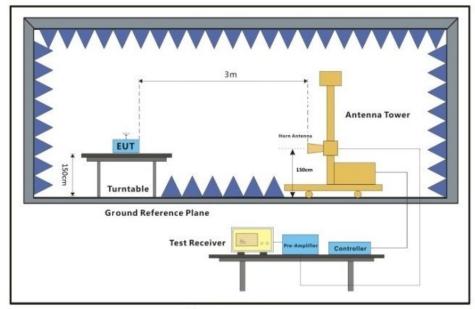
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7.8.3 Test Setup Diagram



Above 1GHz



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7.8.4 Measurement Procedure and Data

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

- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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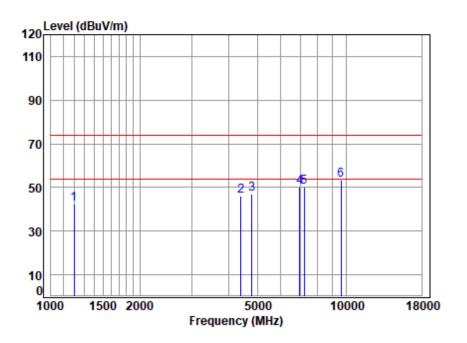
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Test Mode: 02; Polarity: Horizontal; Modulation: GFSK; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT

Mode : 2402 TX RSE

Note : BLE 1M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1196.264	2.76	25.09	39.76	54.27	42.36	74.00	-31.64	peak
2	4405.090	6.67	32.93	41.79	48.37	46.18	74.00	-27.82	peak
3	4804.000	7.10	33.62	42.14	48.52	47.10	74.00	-26.90	peak
4	6954.852	8.52	35.42	41.73	47.79	50.00	74.00	-24.00	peak
5	7206.000	8.74	35.67	41.50	47.21	50.12	74.00	-23.88	peak
6	9608.000	10.81	37.34	37.76	43.20	53.59	74.00	-20.41	peak



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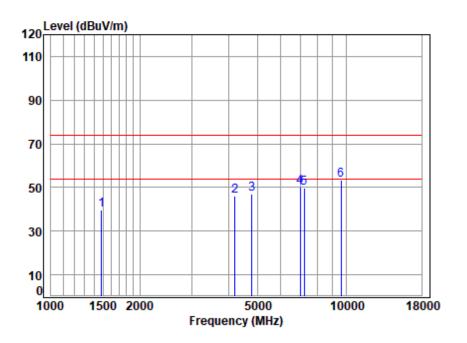
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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 2402 TX RSE

Note : BLE 1M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1485.841	3.24	25.67	39.94	50.81	39.78	74.00	-34.22	peak
2	4193.872	6.47	32.76	41.59	48.36	46.00	74.00	-28.00	peak
3	4804.000	7.10	33.62	42.14	48.41	46.99	74.00	-27.01	peak
4	6995.172	8.54	35.49	41.70	47.73	50.06	74.00	-23.94	peak
5	7206.000	8.74	35.67	41.50	46.89	49.80	74.00	-24.20	peak
6	9608.000	10.81	37.34	37.76	43.12	53.51	74.00	-20.49	peak



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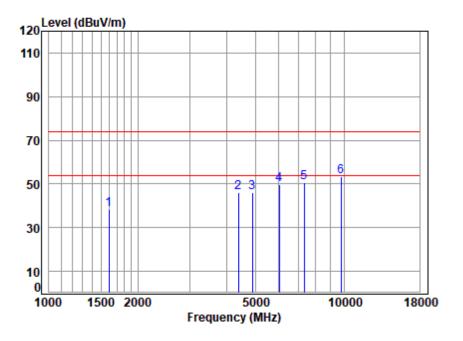
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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT

Mode : 2440 TX RSE

Note : BLE 1M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1597.181	3.35	26.20	40.01	49.00	38.54	74.00	-35.46	peak
2	4379.699	6.65	32.91	41.77	48.42	46.21	74.00	-27.79	peak
3	4880.000	7.18	33.77	42.20	47.29	46.04	74.00	-27.96	peak
4	6036.421	8.26	34.60	42.37	49.30	49.79	74.00	-24.21	peak
5	7320.000	8.84	35.76	41.40	47.52	50.72	74.00	-23.28	peak
6	9760.000	10.76	37.41	37.50	42.60	53.27	74.00	-20.73	peak



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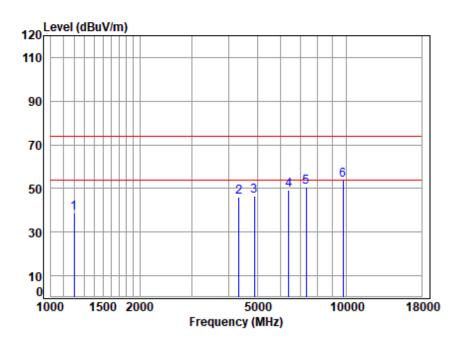
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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT : 2440 TX RSE Mode

: BLE 1M Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1199.726	2.76	25.09	39.76	50.81	38.90	74.00	-35.10	peak
2	4329.354	6.60	32.87	41.72	48.28	46.03	74.00	-27.97	peak
3	4880.000	7.18	33.77	42.20	47.89	46.64	74.00	-27.36	peak
4	6395.654	8.28	34.60	42.11	48.45	49.22	74.00	-24.78	peak
5	7320.000	8.84	35.76	41.40	47.39	50.59	74.00	-23.41	peak
6	9760.000	10.76	37.41	37.50	42.97	53.64	74.00	-20.36	peak



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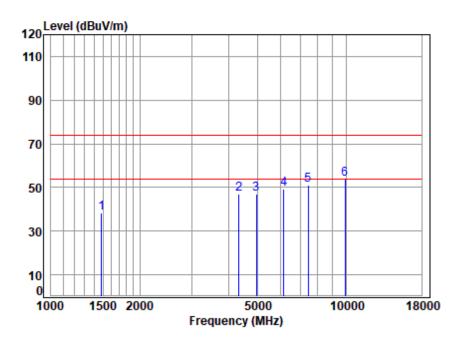
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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT

Mode : 2480 TX RSE

Note : BLE 1M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1485.841	3.24	25.67	39.94	49.42	38.39	74.00	-35.61	peak
2	4341.886	6.61	32.88	41.73	49.23	46.99	74.00	-27.01	peak
3	4960.000	7.26	33.92	42.27	48.02	46.93	74.00	-27.07	peak
4	6142.019	8.27	34.60	42.29	48.92	49.50	74.00	-24.50	peak
5	7440.000	8.96	35.85	41.29	47.81	51.33	74.00	-22.67	peak
6	9920.000	10.71	37.47	37.23	42.90	53.85	74.00	-20.15	peak



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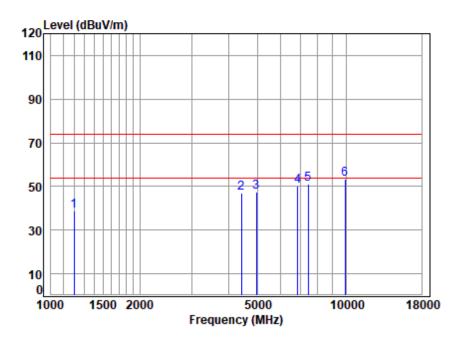
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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT Mode : 2480 TX SE

Note : BLE 1M

	Freq			Preamp Factor		Level			Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1199.726	2.76	25.09	39.76	50.80	38.89	74.00	-35.11	peak
2	4417.841	6.68	32.94	41.80	49.06	46.88	74.00	-27.12	peak
3	4960.000	7.26	33.92	42.27	48.37	47.28	74.00	-26.72	peak
4	6855.063	8.47	35.25	41.80	48.11	50.03	74.00	-23.97	peak
5	7440.000	8.96	35.85	41.29	47.68	51.20	74.00	-22.80	peak
6	9920.000	10.71	37.47	37.23	42.40	53.35	74.00	-20.65	peak



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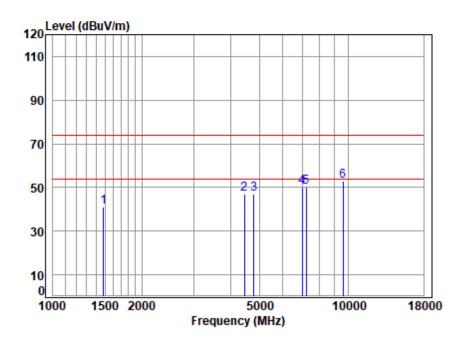
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Test Mode: 02; Polarity: Horizontal; Modulation: GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT

Mode : 2402 TX RSE

Note : BLE 2M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
						-ID- 3//	-ID- 3//		
	MHz	dB	ab/m	dB	abuv	abuv/m	abuv/m	dB	
1	1485.841	3.24	25.67	39.94	52.15	41.12	74.00	-32.88	peak
2	4456.315	6.72	32.97	41.84	49.05	46.90	74.00	-27.10	peak
3	4804.000	7.10	33.62	42.14	48.51	47.09	74.00	-26.91	peak
4	6974.982	8.53	35.46	41.72	47.83	50.10	74.00	-23.90	peak
5	7206.000	8.74	35.67	41.50	47.19	50.10	74.00	-23.90	peak
6	9608.000	10.81	37.34	37.76	42.71	53.10	74.00	-20.90	peak



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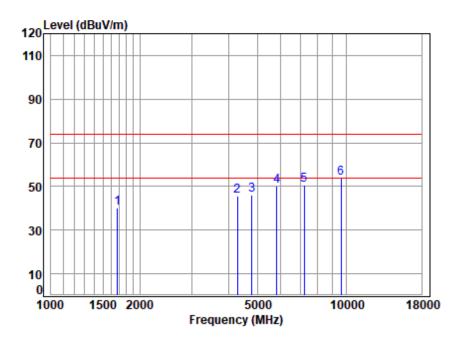
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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 2402 TX RSE

Note : BLE 2M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1677.621	3.41	26.59	40.05	50.27	40.22	/4.00	-33./8	peak
2	4291.977	6.57	32.84	41.68	47.88	45.61	74.00	-28.39	peak
3	4804.000	7.10	33.62	42.14	47.61	46.19	74.00	-27.81	peak
4	5813.812	8.23	34.46	42.38	49.75	50.06	74.00	-23.94	peak
5	7206.000	8.74	35.67	41.50	47.59	50.50	74.00	-23.50	peak
6	9608.000	10.81	37.34	37.76	43.24	53.63	74.00	-20.37	peak



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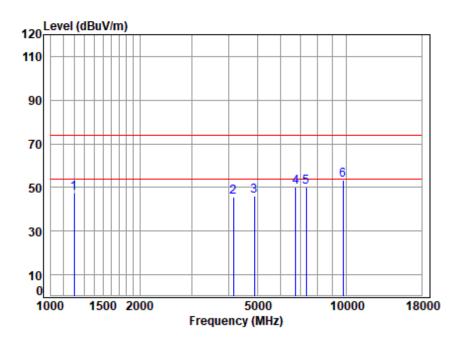
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Test Mode: 02; Polarity: Horizontal; Modulation: GFSK; Channel: middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT

Mode : 2440 TX RSE

Note : BLE 2M

0.0										
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	1199.726	2.76	25.09	39.76	59.22	47.31	74.00	-26.69	peak	
2	4145.664	6.43	32.72	41.54	48.24	45.85	74.00	-28.15	peak	
3	4880.000	7.18	33.77	42.20	47.33	46.08	74.00	-27.92	peak	
4	6756.708	8.42	35.07	41.86	48.69	50.32	74.00	-23.68	peak	
5	7320.000	8.84	35.76	41.40	46.78	49.98	74.00	-24.02	peak	
6	9760.000	10.76	37.41	37.50	42.80	53.47	74.00	-20.53	neak	



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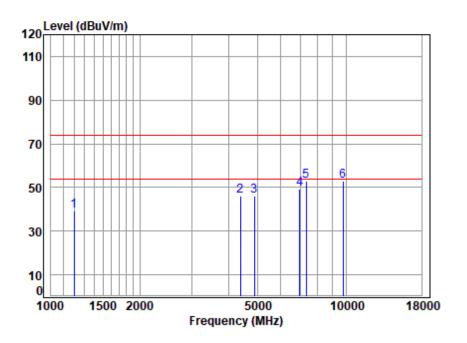
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Report No.: SZCR210402053902

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



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 2440 TX RSE

Note : BLE 2M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1199.726	2.76	25.09	39.76	51.37	39.46	74.00	-34.54	peak
2	4379.699	6.65	32.91	41.77	48.51	46.30	74.00	-27.70	peak
3	4880.000	7.18	33.77	42.20	47.50	46.25	74.00	-27.75	peak
4	6954.852	8.52	35.42	41.73	47.24	49.45	74.00	-24.55	peak
5	7320.000	8.84	35.76	41.40	49.64	52.84	74.00	-21.16	peak
6	9760.000	10.76	37.41	37.50	42.33	53.00	74.00	-21.00	peak



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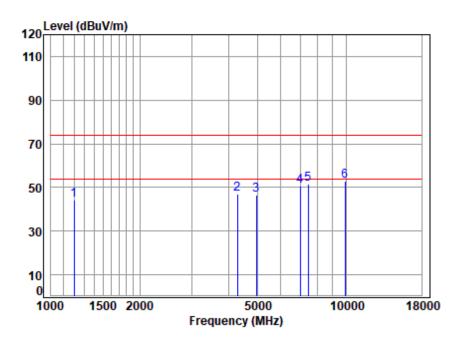
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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT

Mode : 2480 TX RSE

Note : BLE 2M

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	1196.264	2.76	25.09	39.76	56.08	44.17	74.00	-29.83	peak	
2	4291.977	6.57	32.84	41.68	49.18	46.91	74.00	-27.09	peak	
3	4960.000	7.26	33.92	42.27	47.75	46.66	74.00	-27.34	peak	
4	6995.172	8.54	35.49	41.70	48.20	50.53	74.00	-23.47	peak	
5	7440.000	8.96	35.85	41.29	48.24	51.76	74.00	-22.24	peak	
6	9920 000	10 71	37 47	37 23	42 00	52 95	74 99	-21 05	neak	



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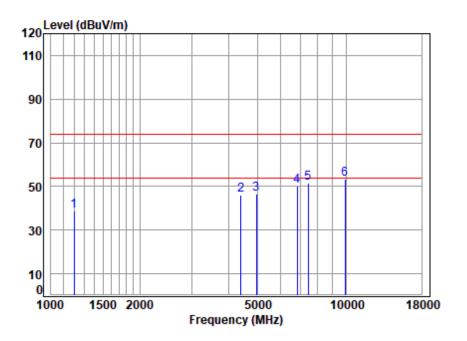
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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 2480 TX RSE

Note : BLE 2M

0.0										
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	1196.264	2.76	25.09	39.76	50.86	38.95	74.00	-35.05	peak	
2	4405.090	6.67	32.93	41.79	48.17	45.98	74.00	-28.02	peak	
3	4960.000	7.26	33.92	42.27	47.45	46.36	74.00	-27.64	peak	
4	6835.278	8.46	35.21	41.81	48.33	50.19	74.00	-23.81	peak	
5	7440.000	8.96	35.85	41.29	48.24	51.76	74.00	-22.24	peak	
6	9920.000	10.71	37.47	37.23	42.38	53.33	74.00	-20.67	neak	



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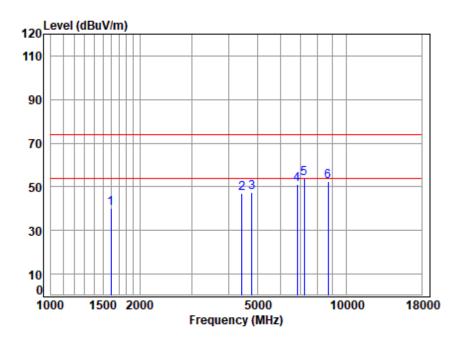
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Test Mode: 05; Polarity: Horizontal; Modulation: GFSK; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL

: 20539AT Job No Mode : 2402 TX SE Note : BLE 1M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1597.181	3.35	26.20	40.01	50.72	40.26	74.00	-33.74	peak
2	4443.453	6.71	32.96	41.82	49.00	46.85	74.00	-27.15	peak
3	4804.000	7.10	33.62	42.14	48.65	47.23	74.00	-26.77	peak
4	6835.278	8.46	35.21	41.81	49.20	51.06	74.00	-22.94	peak
5	7206.000	8.74	35.67	41.50	50.92	53.83	74.00	-20.17	peak
6	8688.480	10.18	36.63	39.43	44.95	52.33	74.00	-21.67	Peak



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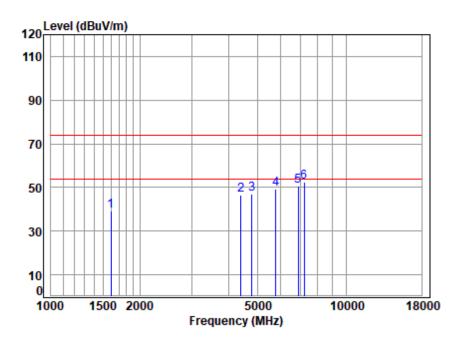
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Test Mode: 05; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT Mode : 2402 TX SE

Note : BLE 1M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1597.181	3.35	26.20	40.01	49.72	39.26	74.00	-34.74	peak
2	4405.090	6.67	32.93	41.79	48.65	46.46	74.00	-27.54	peak
3	4804.000	7.10	33.62	42.14	48.56	47.14	74.00	-26.86	peak
4	5780.300	8.23	34.43	42.38	48.88	49.16	74.00	-24.84	Peak
5	6874.906	8.48	35.28	41.78	48.83	50.81	74.00	-23.19	peak
6	7206.000	8.74	35.67	41.50	49.59	52.50	74.00	-21.50	peak



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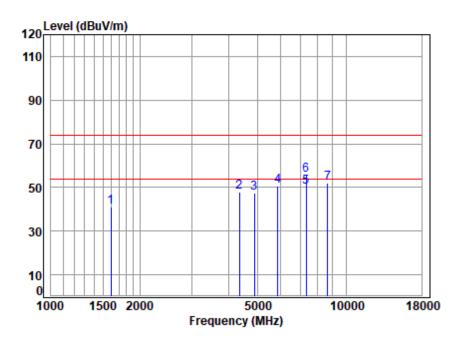
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Test Mode: 05; Polarity: Horizontal; Modulation: GFSK; Channel: middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT Mode : 2440 TX SE Note : BLE 1M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1597.181	3.35	26.20	40.01	51.67	41.21	74.00	-32.79	peak
2	4354.454	6.63	32.89	41.74	49.92	47.70	74.00	-26.30	peak
3	4880.000	7.18	33.77	42.20	48.78	47.53	74.00	-26.47	peak
4	5864.443	8.24	34.49	42.39	50.19	50.53	74.00	-23.47	peak
5	7320.000	8.85	35.76	41.39	46.77	49.99	54.00	-4.01	Average
6	7320.000	8.84	35.76	41.40	52.30	55.50	74.00	-18.50	peak
7	8638.399	10.16	36.57	39.53	44.91	52.11	74.00	-21.89	Peak



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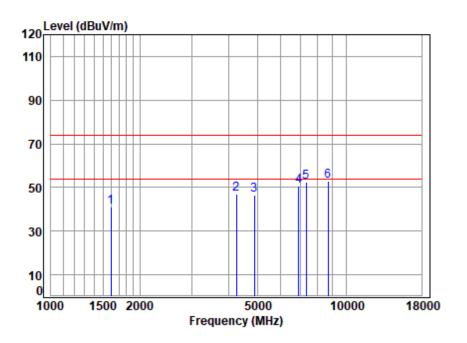
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Test Mode: 05; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT Mode : 2440 TX SE

Note : BLE 1M

_									
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	1597.181	3.35	26.20	40.01	51.38	40.92	74.00	-33.08	peak
2	4242.641	6.52	32.80	41.64	49.52	47.20	74.00	-26.80	peak
;	4880.000	7.18	33.77	42.20	47.73	46.48	74.00	-27.52	peak
Ļ	6894.806	8.49	35.32	41.77	48.51	50.55	74.00	-23.45	peak
,	7320.000	8.84	35.76	41.40	49.20	52.40	74.00	-21.60	peak
,	8688.480	10.18	36.63	39.43	45.46	52.84	74.00	-21.16	Peak



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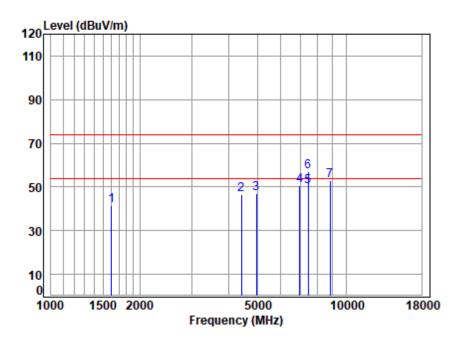
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Test Mode: 05; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT Mode : 2480 TX SE Note : BLE 1M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1601.804	3.35	26.22	40.01	52.19	41.75	74.00	-32.25	peak
2	4417.841	6.68	32.94	41.80	48.77	46.59	74.00	-27.41	peak
3	4960.000	7.26	33.92	42.27	48.04	46.95	74.00	-27.05	peak
4	6954.852	8.52	35.42	41.73	48.50	50.71	74.00	-23.29	peak
5	7440.000	8.95	35.85	41.30	46.85	50.35	54.00	-3.65	Average
6	7440.000	8.96	35.85	41.29	53.65	57.17	74.00	-16.83	peak
7	8814.957	10.23	36.78	39.19	45.19	53.01	74.00	-20.99	Peak



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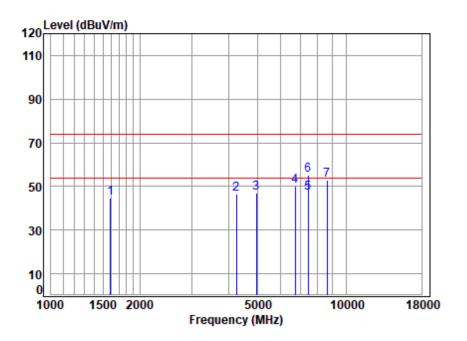
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Report No.: SZCR210402053902

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Test Mode: 05; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT Mode : 2480 TX SE

Note : BLE 1M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
_									
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	4500 574	2.24	26.40	40.00	FF 36	44.00	74.00	20.42	
1	1592.571	3.34	26.18	40.00	55.36	44.88	74.00	-29.12	peak
2	4242.641	6.52	32.80	41.64	49.06	46.74	74.00	-27.26	peak
3	4960.000	7.26	33.92	42.27	48.12	47.03	74.00	-26.97	peak
4	6717.762	8.40	35.00	41.89	48.56	50.07	74.00	-23.93	peak
5	7440.000	8.96	35.85	41.29	43.51	47.03	54.00	-6.97	Average
6	7440.000	8.96	35.85	41.29	51.58	55.10	74.00	-18.90	peak
7	8613.468	10.15	36.54	39.57	45.72	52.84	74.00	-21.16	Peak



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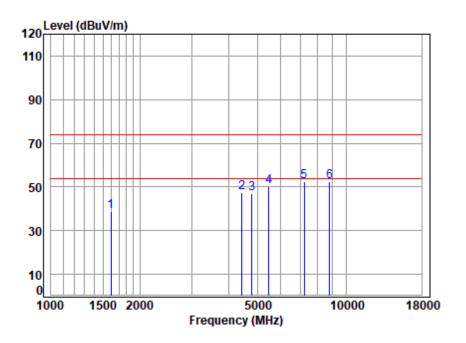
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Test Mode: 06; Polarity: Horizontal; Modulation: GFSK; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT : 2402 TX SE Mode : BLE 2M Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1597.181	3.35	26.20	40.01	49.24	38.78	74.00	-35.22	peak
2	4430.628	6.70	32.95	41.81	49.49	47.33	74.00	-26.67	peak
3	4804.000	7.10	33.62	42.14	48.39	46.97	74.00	-27.03	peak
4	5471.422	8.13	34.19	42.35	50.39	50.36	74.00	-23.64	peak
5	7206.000	8.74	35.67	41.50	49.63	52.54	74.00	-21.46	peak
6	8789.516	10.22	36.75	39.24	44.55	52.28	74.00	-21.72	Peak



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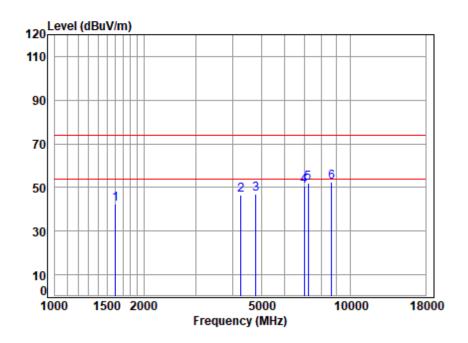
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Test Mode: 06; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT Mode : 2402 TX SE

Note : BLE 2M

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
1	1601.804	3.35	26.22	40.01	52.86	42.42	74.00	-31.58	peak
2	4267.237	6.54	32.82	41.66	48.63	46.33	74.00	-27.67	peak
3	4804.000	7.10	33.62	42.14	48.56	47.14	74.00	-26.86	peak
4	6995.172	8.54	35.49	41.70	48.20	50.53	74.00	-23.47	peak
5	7206.000	8.74	35.67	41.50	49.03	51.94	74.00	-22.06	peak
6	8663.404	10.17	36.60	39.48	45.24	52.53	74.00	-21.47	Peak



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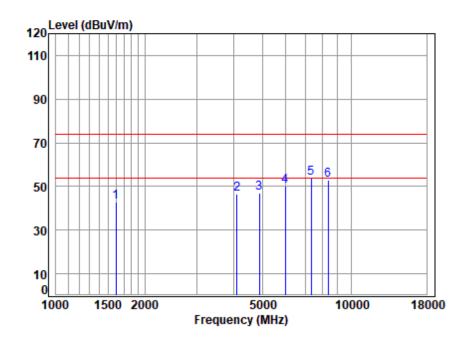
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Test Mode: 06; Polarity: Horizontal; Modulation: GFSK; Channel: middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT Mode : 2440 TX SE Note : BLE 2M

	Cable	Ant	Preamp	Read		Limit	0ver		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
									_
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1597.181	3 35	26 20	40.01	E2 21	12 75	74 00	21 25	nook	
								•	
4098.010			41.50					•	
4880.000	7.18	33.77	42.20	48.33	47.08	74.00	-26.92	peak	
5984.305	8.26	34.59	42.40	49.96	50.41	74.00	-23.59	peak	
7320.000	8.84	35.76	41.40	50.69	53.89	74.00	-20.11	peak	
8343.918	9.89	36.31	40.10	46.77	52.87	74.00	-21.13	Peak	



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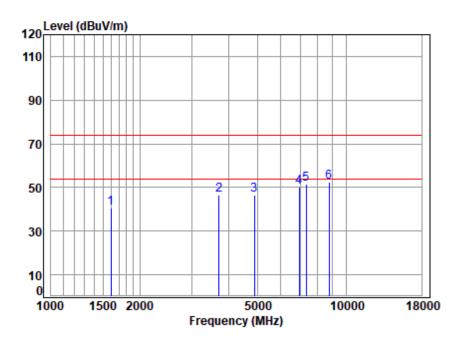
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Test Mode: 06; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT Mode : 2440 TX SE

Note : BLE 2M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1597.181	3.35	26.20	40.01	51.29	40.83	74.00	-33.17	peak
2	3703.723	5.84	32.08	41.21	49.91	46.62	74.00	-27.38	peak
3	4880.000	7.18	33.77	42.20	47.88	46.63	74.00	-27.37	peak
4	6934.778	8.51	35.39	41.74	48.14	50.30	74.00	-23.70	peak
5	7320.000	8.84	35.76	41.40	48.27	51.47	74.00	-22.53	peak
6	8738.852	10.20	36.69	39.34	44.74	52.29	74.00	-21.71	Peak



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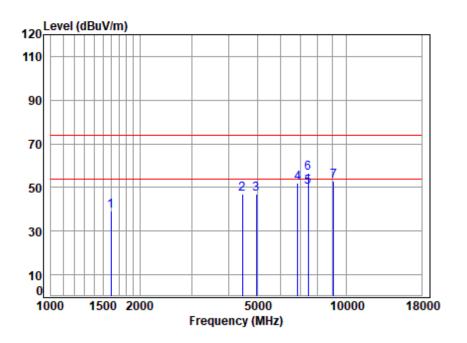
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Test Mode: 06; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT Mode : 2480 TX SE Note : BLE 2M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1597.181	3.35	26.20	40.01	49.81	39.35	74.00	-34.65	peak
2	4456.315	6.72	32.97	41.84	49.11	46.96	74.00	-27.04	peak
3	4960.000	7.26	33.92	42.27	48.26	47.17	74.00	-26.83	peak
4	6855.063	8.47	35.25	41.80	49.90	51.82	74.00	-22.18	peak
5	7440.000	8.95	35.85	41.30	46.49	49.99	54.00	-4.01	Average
6	7440.000	8.96	35.85	41.29	53.14	56.66	74.00	-17.34	peak
7	9073.460	10.38	37.05	38.71	44.04	52.76	74.00	-21.24	Peak



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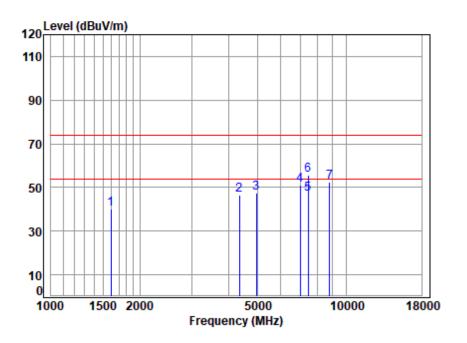
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Test Mode: 06; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT Mode : 2480 TX SE

Note : BLE 2M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1597.181	3.35	26.20	40.01	50.48	40.02	74.00	-33.98	peak
2	4354.454	6.63	32.89	41.74	48.92	46.70	74.00	-27.30	peak
3	4960.000	7.26	33.92	42.27	48.75	47.66	74.00	-26.34	peak
4	6995.172	8.54	35.49	41.70	48.82	51.15	74.00	-22.85	peak
5	7440.000	8.96	35.85	41.29	43.65	47.17	54.00	-6.83	Average
6	7440.000	8.96	35.85	41.29	51.96	55.48	74.00	-18.52	peak
7	8789.516	10.22	36.75	39.24	44.92	52.65	74.00	-21.35	Peak



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Emission Test Results 8

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

47 CFR Part 15, Subpart C 15.247 Test Requirement:

47 CFR Part 15, Subpart C 15.207

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

Limit:

Execution of emission (MHT)	Conducted	d limit(dBµV)					
Frequency of emission(MHz)	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 3	0MHz					

8.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24.0 °C Atmospheric Pressure: 1010 mbar Humidity: 59.9 % RH

8.1.2 Test Mode Description

0.1.2 1030	Mode Descrip	Alon
Pre-scan / Final test	Mode Code	Description
Final test	02	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.(LB-LINK)
Final test	05	Charge + TX mode(1Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.(ABLUE)
Final test	06	Charge + TX mode(2Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.(ABLUE)



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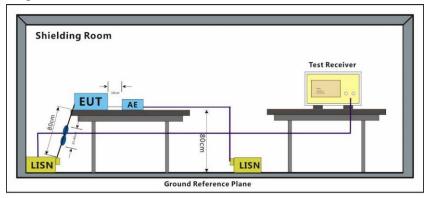
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8.1.3 Test Setup Diagram



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/50µH + 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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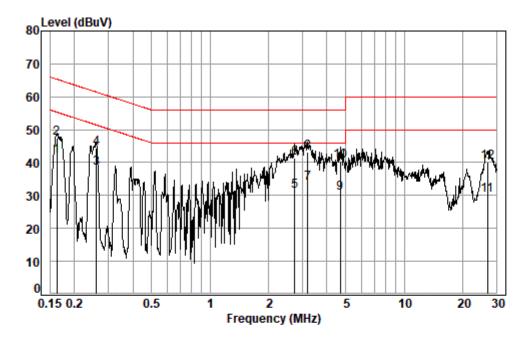
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Test Mode: 02; Line: Live line; Modulation:GFSK; Channel:Low



: Shielding Room

Condition: Line : 20539AT Job No. Test mode: 02 1M

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1624	0.03	9.63	32.19	41.85	55.34	-13.49	Average
2	0.1624	0.03	9.63	37.91	47.57	65.34	-17.77	QP
3	0.2603	0.05	9.65	28.55	38.25	51.42	-13.17	Average
4	0.2603	0.05	9.65	34.81	44.51	61.42	-16.91	QP
5	2.7356	0.14	9.70	21.45	31.29	46.00	-14.71	Average
6	2.7356	0.14	9.70	31.65	41.49	56.00	-14.51	QP
7	3.1900	0.14	9.72	23.76	33.62	46.00	-12.38	Average
8	3.1900	0.14	9.72	33.39	43.25	56.00	-12.75	QP
9	4.6964	0.16	9.76	20.95	30.87	46.00	-15.13	Average
10	4.6964	0.16	9.76	30.50	40.42	56.00	-15.58	QP
11	26.8411	0.19	9.99	19.97	30.15	50.00	-19.85	Average
12	26.8411	0.19	9.99	29.83	40.01	60.00	-19.99	QP



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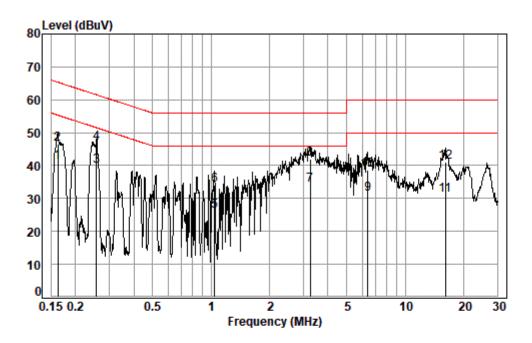
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Test Mode: 02; Line: Neutral Line; Modulation:GFSK; Channel:Low



: Shielding Room

Condition: Neutral : 20539AT Job No. Test mode: 02 1M

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1624	0.03	9.63	31.33	40.99	55.34	-14.35	Average
2	0.1624	0.03	9.63	36.92	46.58	65.34	-18.76	QP
3	0.2575	0.05	9.65	30.25	39.95	51.51	-11.56	Average
4	0.2575	0.05	9.65	37.21	46.91	61.51	-14.60	QP
5	1.0430	0.10	9.67	16.51	26.28	46.00	-19.72	Average
6	1.0430	0.10	9.67	24.40	34.17	56.00	-21.83	QP
7	3.2411	0.14	9.71	24.11	33.96	46.00	-12.04	Average
8	3.2411	0.14	9.71	32.12	41.97	56.00	-14.03	QP
9	6.4198	0.16	9.81	21.33	31.30	50.00	-18.70	Average
10	6.4198	0.16	9.81	28.76	38.73	60.00	-21.27	QP
11	16.1399	0.16	9.98	20.87	31.01	50.00	-18.99	Average
12	16.1399	0.16	9.98	30.94	41.08	60.00	-18.92	QP



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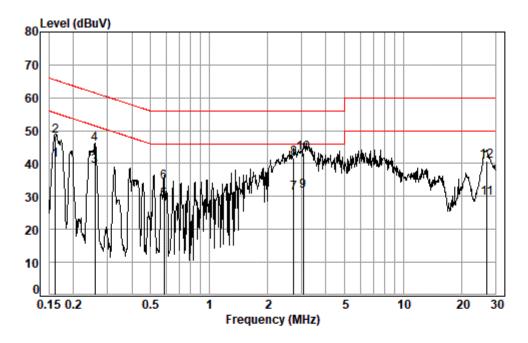
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Report No.: SZCR210402053902

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: Shielding Room

Condition: Line Job No. : 20539AT Test mode: 02 2M

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1615	0.03	9.63	31.53	41.19	55.38	-14.19	Average
2	0.1615	0.03	9.63	38.75	48.41	65.38	-16.97	QP
3	0.2589	0.05	9.65	29.48	39.18	51.47	-12.29	Average
4	0.2589	0.05	9.65	36.32	46.02	61.47	-15.45	QP
5	0.5854	0.08	9.68	19.26	29.02	46.00	-16.98	Average
6	0.5854	0.08	9.68	24.49	34.25	56.00	-21.75	QP
7	2.7356	0.14	9.70	21.22	31.06	46.00	-14.94	Average
8	2.7356	0.14	9.70	31.91	41.75	56.00	-14.25	QP
9	3.0576	0.14	9.71	21.77	31.62	46.00	-14.38	Average
10	3.0576	0.14	9.71	33.25	43.10	56.00	-12.90	QP
11	26.9837	0.19	9.99	19.18	29.36	50.00	-20.64	Average
12	26.9837	0.19	9.99	30.46	40.64	60.00	-19.36	QP



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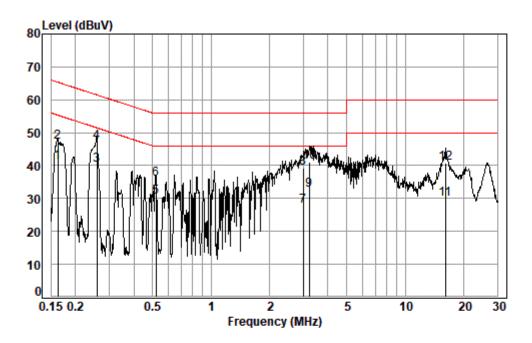
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Report No.: SZCR210402053902

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



: Shielding Room

Condition: Neutral : 20539AT Job No. Test mode: 02 2M

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1624	0.03	9.63	31.43	41.09	55.34	-14.25	Average
2	0.1624	0.03	9.63	37.62	47.28	65.34	-18.06	QP
3	0.2589	0.05	9.65	30.58	40.28	51.47	-11.19	Average
4	0.2589	0.05	9.65	37.38	47.08	61.47	-14.39	QP
5	0.5210	0.07	9.67	20.54	30.28	46.00	-15.72	Average
6	0.5210	0.07	9.67	26.20	35.94	56.00	-20.06	QP
7	2.9935	0.14	9.70	17.96	27.80	46.00	-18.20	Average
8	2.9935	0.14	9.70	29.40	39.24	56.00	-16.76	QP
9	3.2069	0.14	9.71	22.77	32.62	46.00	-13.38	Average
10	3.2069	0.14	9.71	31.34	41.19	56.00	-14.81	QP
11	16.1399	0.16	9.98	19.67	29.81	50.00	-20.19	Average
12	16.1399	0.16	9.98	30.51	40.65	60.00	-19.35	QP



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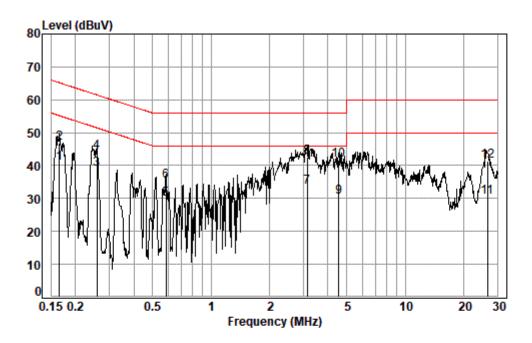
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Report No.: SZCR210402053902

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Test Mode: 06; Line: Live line; Modulation:GFSK; Channel:Low



: Shielding Room

Condition: Line : 20539AT Job No.

Test mode: 06

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1659	0.03	9.63	31.06	40.72	55.16	-14.44	Average
2	0.1659	0.03	9.63	37.16	46.82	65.16	-18.34	QP
3	0.2589	0.05	9.65	29.16	38.86	51.47	-12.61	Average
4	0.2589	0.05	9.65	34.44	44.14	61.47	-17.33	QP
5	0.5854	0.08	9.68	19.92	29.68	46.00	-16.32	Average
6	0.5854	0.08	9.68	25.56	35.32	56.00	-20.68	QP
7	3.1231	0.14	9.71	23.52	33.37	46.00	-12.63	Average
8	3.1231	0.14	9.71	32.80	42.65	56.00	-13.35	QP
9	4.5494	0.16	9.76	20.54	30.46	46.00	-15.54	Average
10	4.5494	0.16	9.76	31.72	41.64	56.00	-14.36	QP
11	26.5581	0.19	9.99	20.20	30.38	50.00	-19.62	Average
12	26.5581	0.19	9.99	31.06	41.24	60.00	-18.76	QP



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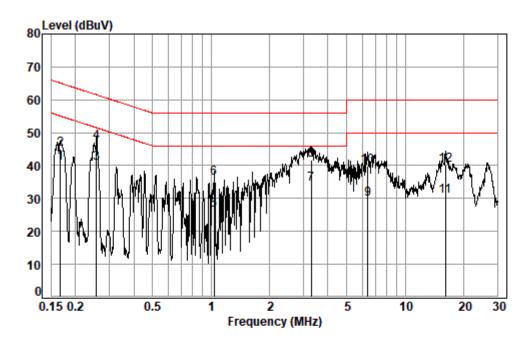
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Test Mode: 06; Line: Neutral Line; Modulation:GFSK; Channel:Low



: Shielding Room

Condition: Neutral : 20539AT Job No.

Test mode: 06

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1677	0.03	9.63	31.06	40.72	55.08	-14.36	Average
2	0.1677	0.03	9.63	35.40	45.06	65.08	-20.02	QP
3	0.2575	0.05	9.65	31.00	40.70	51.51	-10.81	Average
4	0.2575	0.05	9.65	37.56	47.26	61.51	-14.25	QP
5	1.0375	0.10	9.67	16.69	26.46	46.00	-19.54	Average
6	1.0375	0.10	9.67	26.45	36.22	56.00	-19.78	QP
7	3.2756	0.14	9.71	24.46	34.31	46.00	-11.69	Average
8	3.2756	0.14	9.71	31.79	41.64	56.00	-14.36	QP
9	6.4198	0.16	9.81	19.78	29.75	50.00	-20.25	Average
10	6.4198	0.16	9.81	29.79	39.76	60.00	-20.24	QP
11	16.1399	0.16	9.98	20.73	30.87	50.00	-19.13	Average
12	16.1399	0.16	9.98	30.14	40.28	60.00	-19.72	QP



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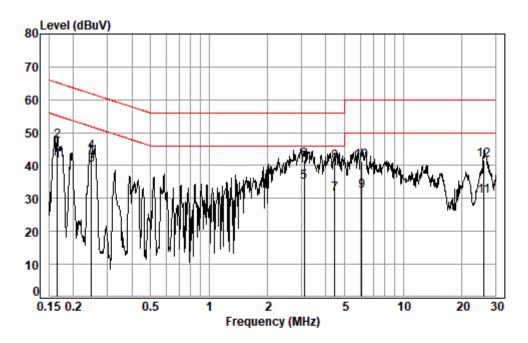
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Report No.: SZCR210402053902

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Test Mode: 05; Line: Live line; Modulation:GFSK; Channel:Low



: Shielding Room

Condition: Line Job No. : 20539AT

Test mode: 05

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1659	0.03	9.63	31.62	41.28	55.16	-13.88	Average
2	0.1659	0.03	9.63	37.67	47.33	65.16	-17.83	QP
3	0.2481	0.05	9.65	30.50	40.20	51.82	-11.62	Average
4	0.2481	0.05	9.65	34.47	44.17	61.82	-17.65	QP
5	3.0901	0.14	9.71	25.00	34.85	46.00	-11.15	Average
6	3.0901	0.14	9.71	31.85	41.70	56.00	-14.30	QP
7	4.4305	0.16	9.75	21.31	31.22	46.00	-14.78	Average
8	4.4305	0.16	9.75	31.02	40.93	56.00	-15.07	QP
9	6.1209	0.16	9.81	22.20	32.17	50.00	-17.83	Average
10	6.1209	0.16	9.81	31.42	41.39	60.00	-18.61	QP
11	26.1393	0.19	9.99	20.68	30.86	50.00	-19.14	Average
12	26.1393	0.19	9.99	31.42	41.60	60.00	-18.40	QP



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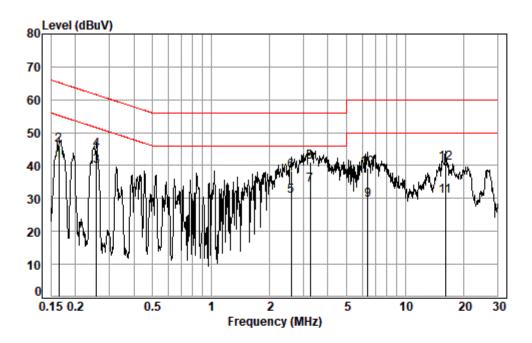
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Test Mode: 05; Line: Neutral Line; Modulation: GFSK; Channel:Low



: Shielding Room

Condition: Neutral : 20539AT Job No.

Test mode: 05

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1650	0.03	9.63	31.62	41.28	55.21	-13.93	Average
2	0.1650	0.03	9.63	36.66	46.32	65.21	-18.89	QP
3	0.2575	0.05	9.65	30.09	39.79	51.51	-11.72	Average
4	0.2575	0.05	9.65	35.02	44.72	61.51	-16.79	QP
5	2.5945	0.14	9.69	20.84	30.67	46.00	-15.33	Average
6	2.5945	0.14	9.69	28.52	38.35	56.00	-17.65	QP
7	3.2411	0.14	9.71	24.15	34.00	46.00	-12.00	Average
8	3.2411	0.14	9.71	31.10	40.95	56.00	-15.05	QP
9	6.4198	0.16	9.81	19.47	29.44	50.00	-20.56	Average
10	6.4198	0.16	9.81	29.19	39.16	60.00	-20.84	QP
11	16.1399	0.16	9.98	20.55	30.69	50.00	-19.31	Average
12	16.1399	0.16	9.98	30.71	40.85	60.00	-19.15	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

LB-LINK Module

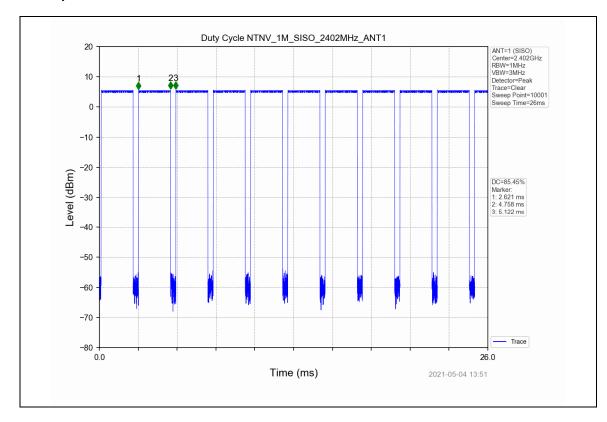
Appendix for 15.247

1. Duty Cycle

1.1 Test Result

Test Mode	Channel Frequency (MHz)	ТХ Туре	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
	2402	SISO	1	2.137	2.501	85.45	0.68
1M	2440	SISO	1	2.137	2.501	85.45	0.68
	2480	SISO	1	2.138	2.499	85.55	0.68
2M	2402	SISO	1	1.080	1.874	57.63	2.39
	2440	SISO	1	1.060	1.841	57.58	2.40
	2480	SISO	1	1.080	1.876	57.57	2.40

1.2 Test Graph





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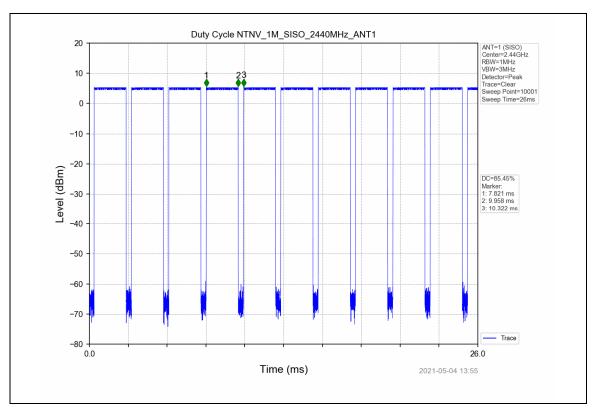
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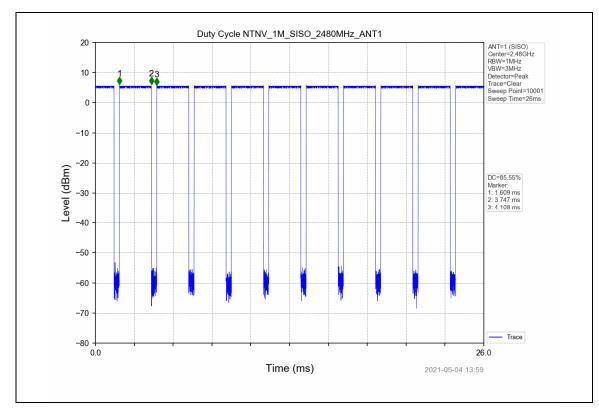
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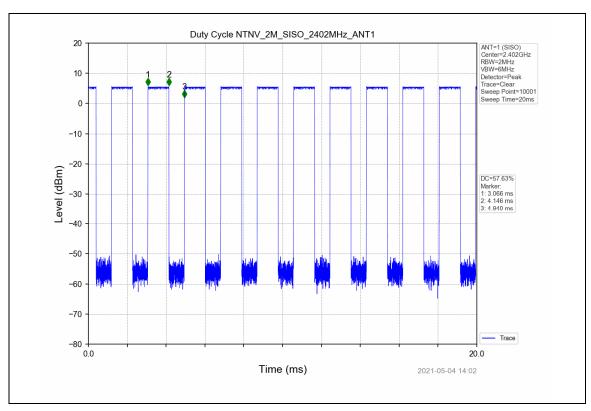
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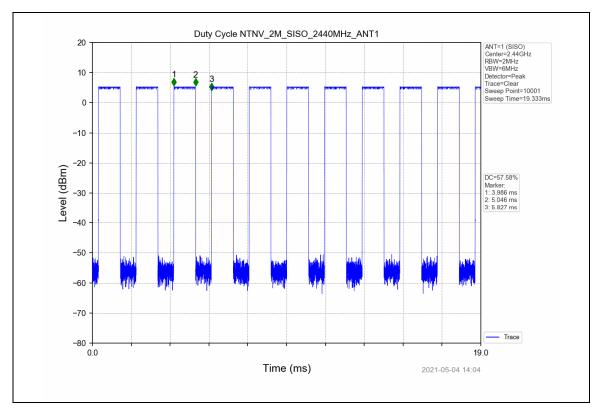
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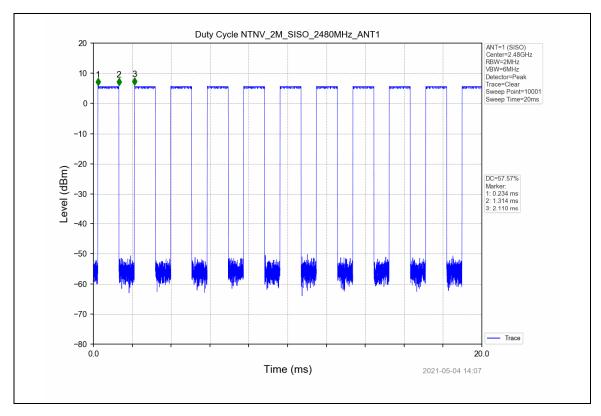
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2. Bandwidth

2.1 Test Result

Test Mode	Frequency	TV Tupo	ANT No	6dB Bandwidth	Vordict
Test Mode	(MHz)	TX Type	ANT No.	Test Result (MHz)	Verdict
	2402	SISO	1	0.663	PASS
1M	2440	SISO	1	0.661	PASS
	2480	SISO	1	0.663	PASS
	2402	SISO	1	1.128	PASS
2M	2440	SISO	1	1.139	PASS
	2480	SISO	1	1.129	PASS

Toot Mode	Frequency	TV Tura	ANT No.	99% Occupied Bandwidth Test Result (MHz)			
Test Mode	(MHz)	TX Type					
	2402	SISO	1	1.025	Only for Report Use		
1M	2440	SISO	1	1.028	Only for Report Use		
	2480	SISO	1	1.028	Only for Report Use		
	2402	SISO	1	2.054	Only for Report Use		
2M	2440	SISO	1 2.051 Or		Only for Report Use		
	2480	SISO	1	2.049	Only for Report Use		



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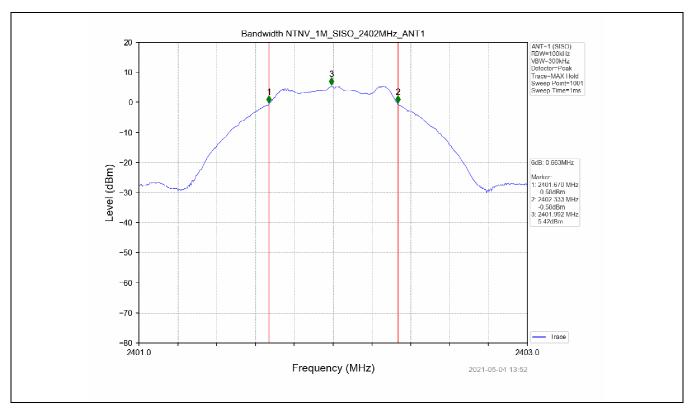
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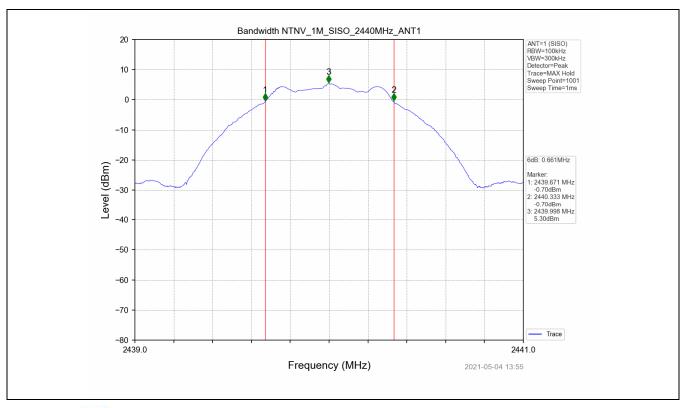


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2.2 Test Graph - 6dB Bandwidth







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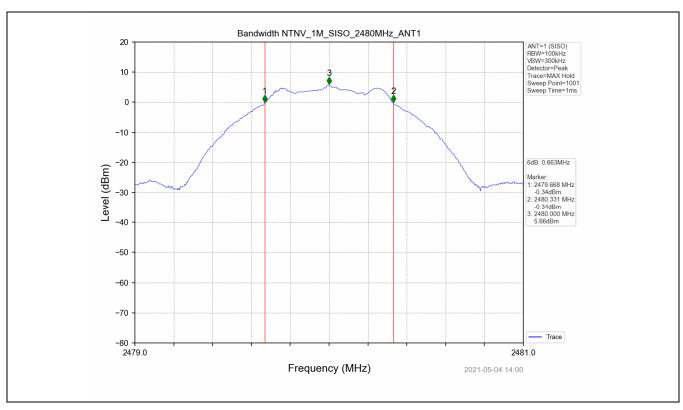
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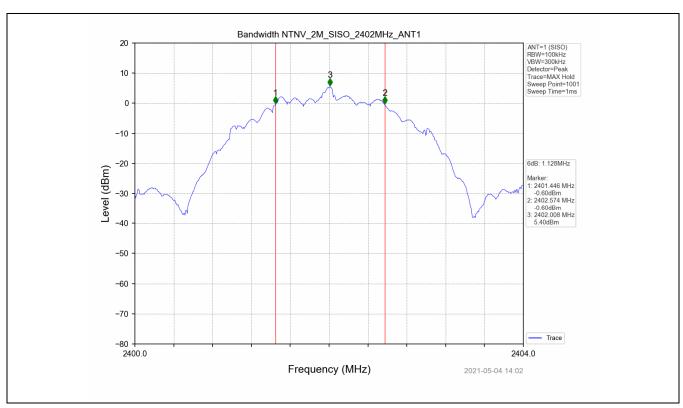
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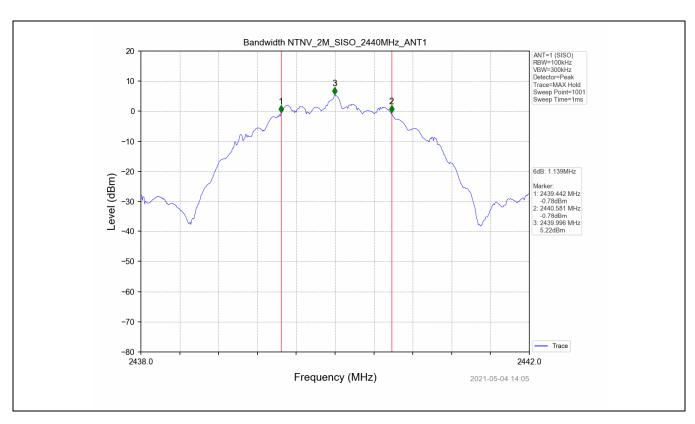
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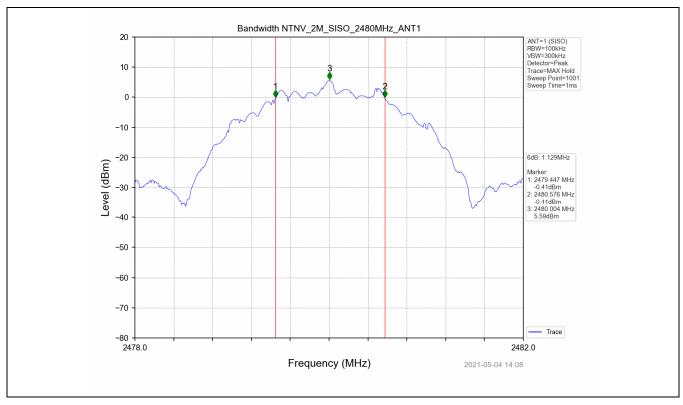
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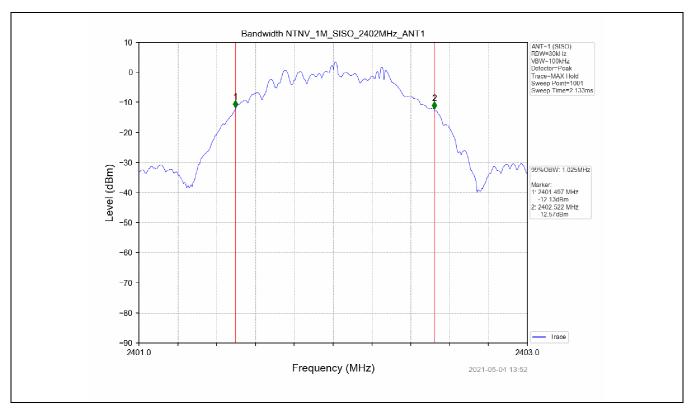
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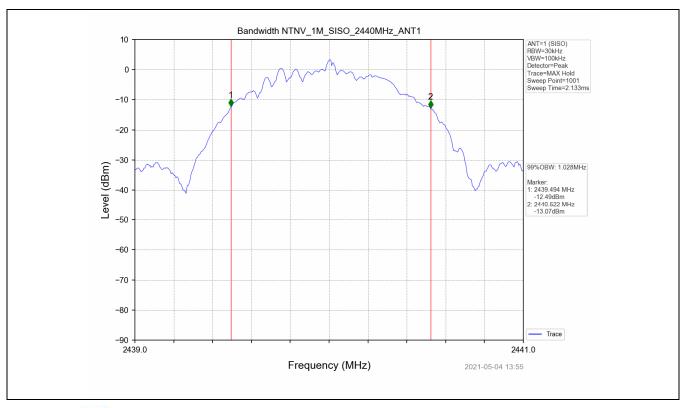


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2.3 Test Graph - 99% Occupied Bandwidth







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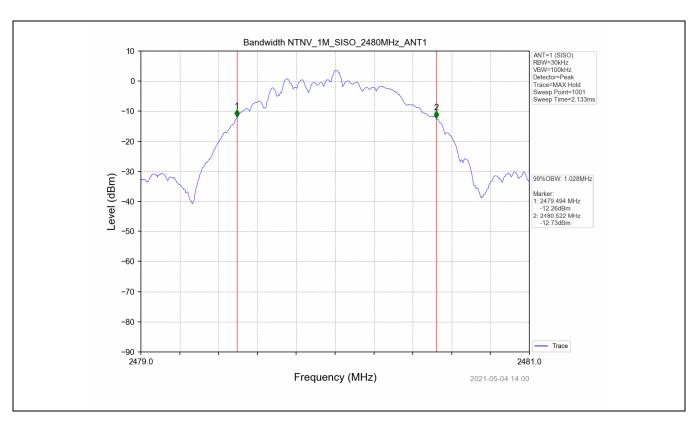
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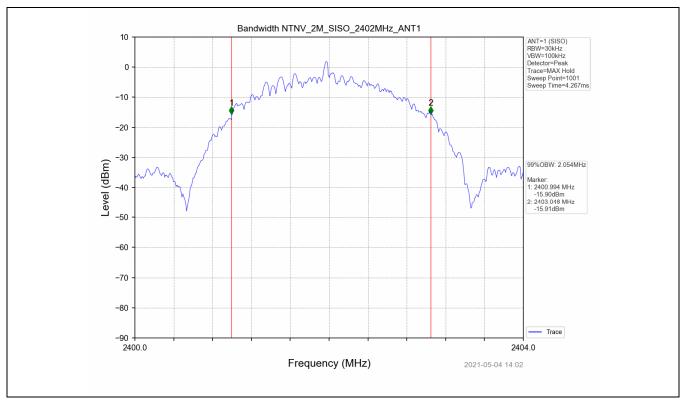
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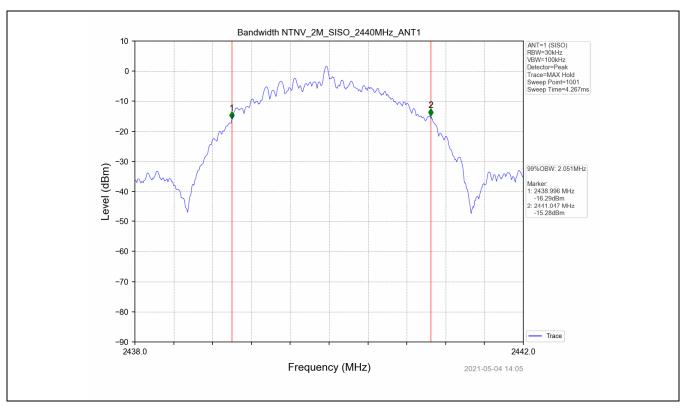
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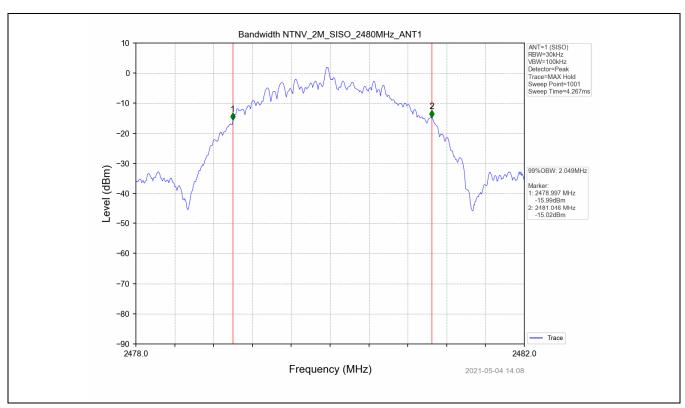
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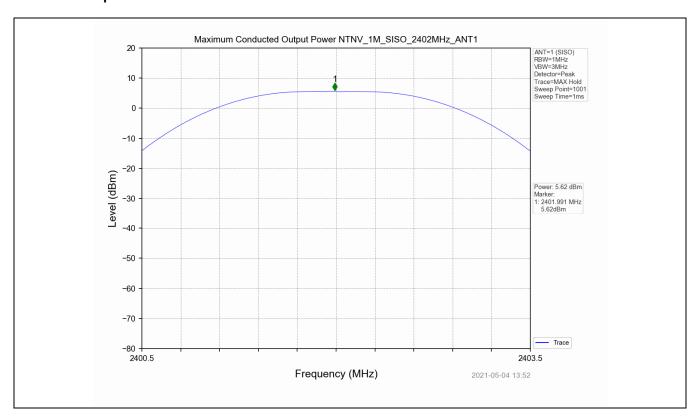
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3. Maximum Conducted Output Power

3.1 Test Result

Test Mode	Frequency (MHz)	Тх Туре	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict	
	, ,		Ant 1			
	2402	SISO	5.62	30	PASS	
1M	2440	SISO	5.35	30	PASS	
	2480	SISO	5.69	30	PASS	
	2402	SISO	5.60	30	PASS	
2M	2440	SISO	5.42	30	PASS	
	2480	SISO	5.74	30	PASS	

3.2 Test Graph





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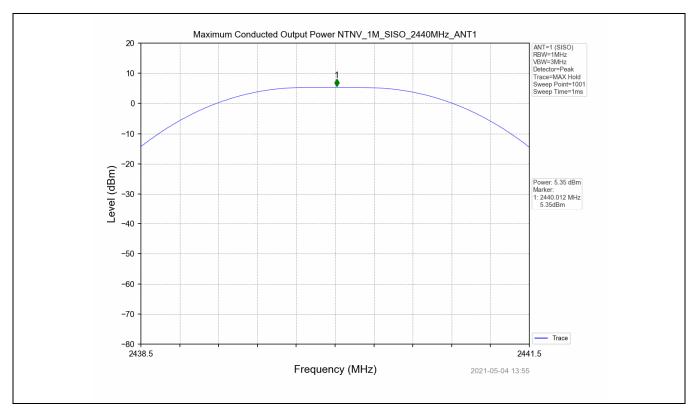
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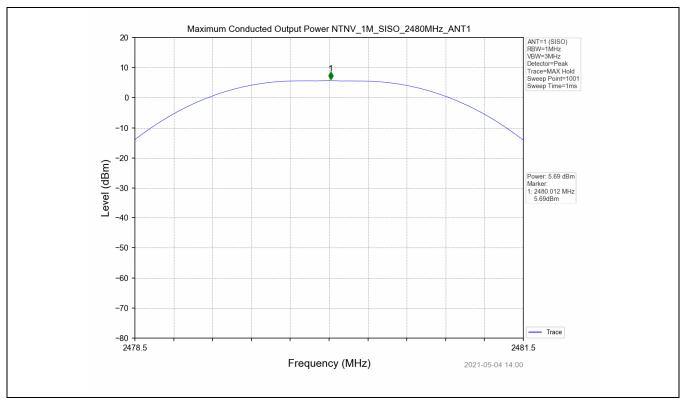
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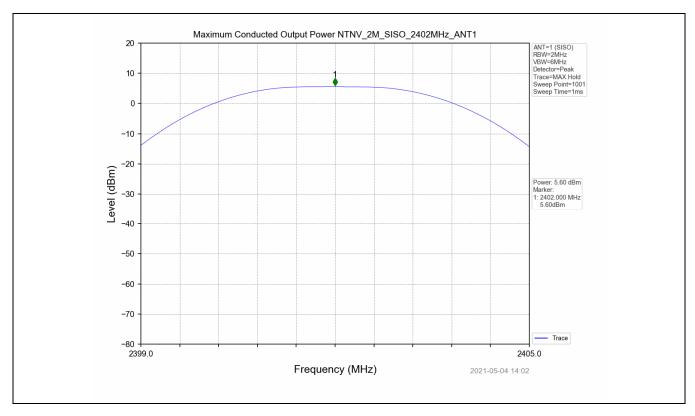
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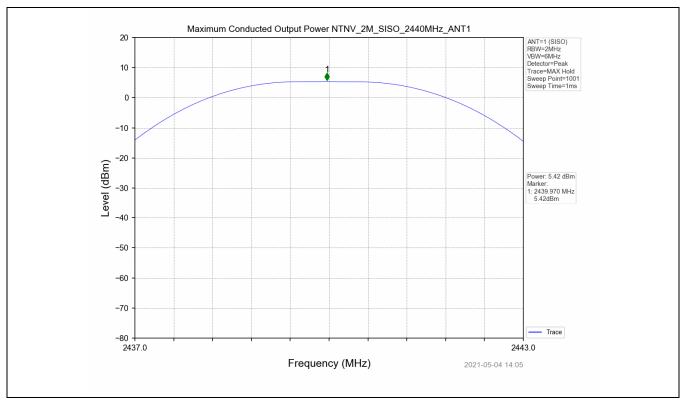
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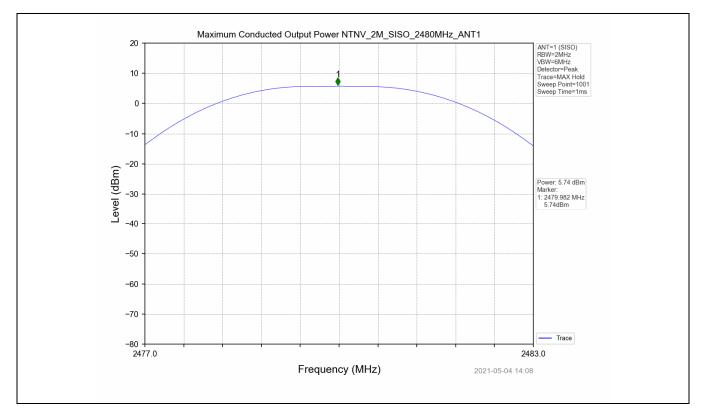
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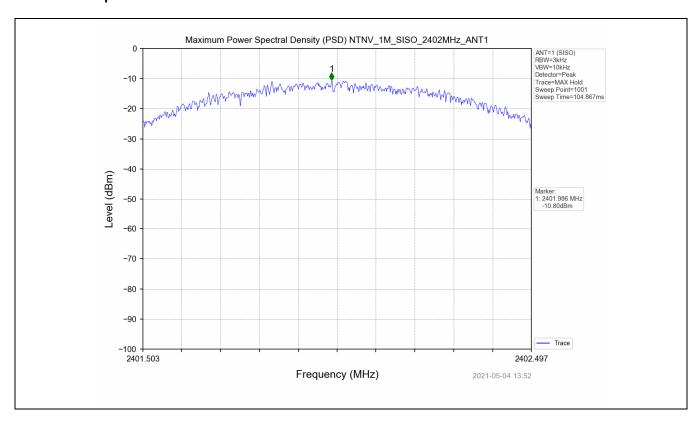
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4. Maximum Power Spectral Density (PSD)

4.1 Test Result

Test Mode	Frequency (MHz)	Тх Туре	Maximum Power Spectral Density (dBm/3KHz)	Limits (dBm/3kHz)	Verdict	
			Ant 1			
	2402	SISO	-10.80	≤8	PASS	
1M	2440	SISO	-10.42	≤8	PASS	
	2480	SISO	-9.76	≤8	PASS	
	2402	SISO	-12.74	≤8	PASS	
2M	2440	SISO	-12.79	≤8	PASS	
	2480	SISO	-12.27	≤8	PASS	

4.2 Test Graph





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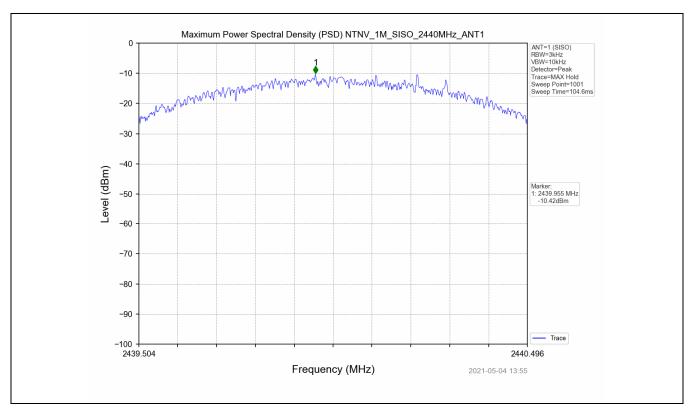
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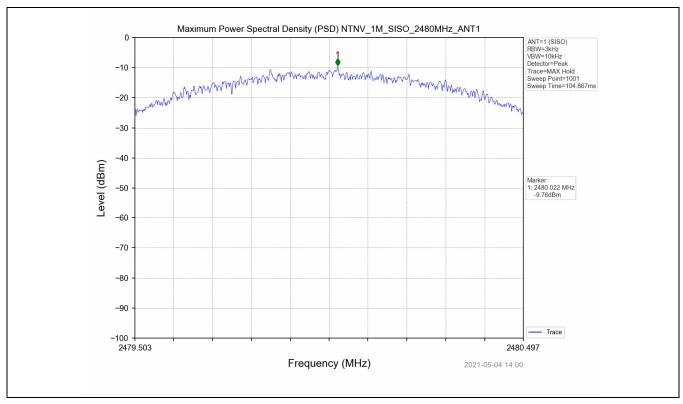
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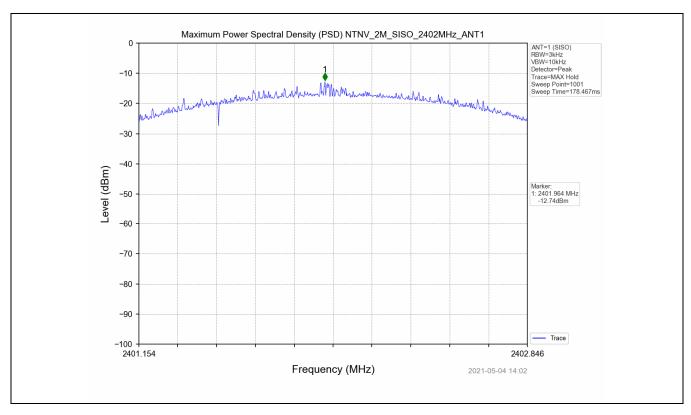
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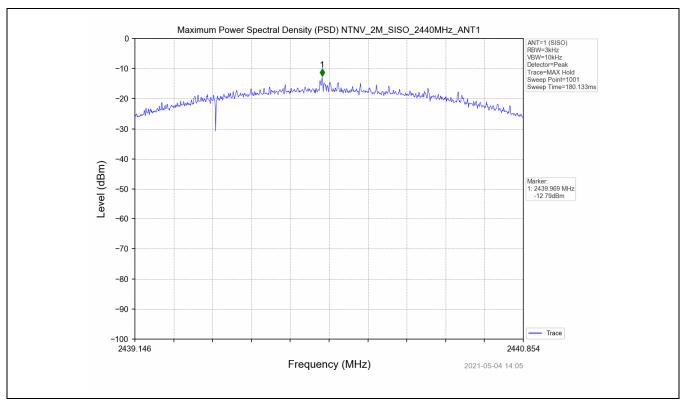
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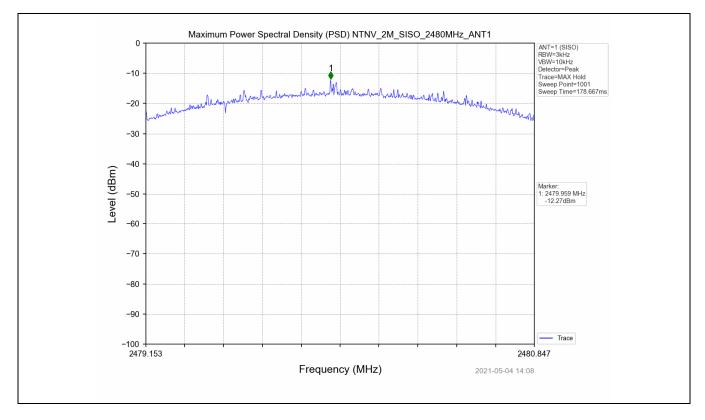
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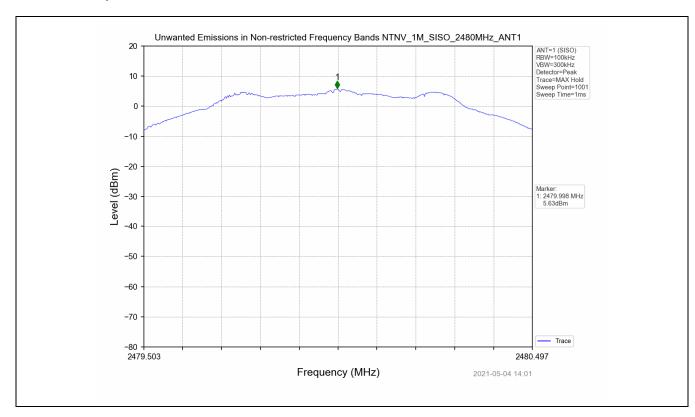
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5. Unwanted Emissions in Non-restricted Frequency Bands

5.1 Test Result

Test Mode	Frequency (MHz)	ТХ Туре	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
	2402	SISO	1	Refer to test graph	-14.37	PASS
1M	2440	SISO	1	Refer to test graph	-14.37	PASS
	2480	SISO	1	Refer to test graph	-14.37	PASS
	2402	SISO	1	Refer to test graph	-14.43	PASS
2M	2440	SISO	1	Refer to test graph	-14.43	PASS
	2480	SISO	1	Refer to test graph	-14.43	PASS

5.2 Test Graph





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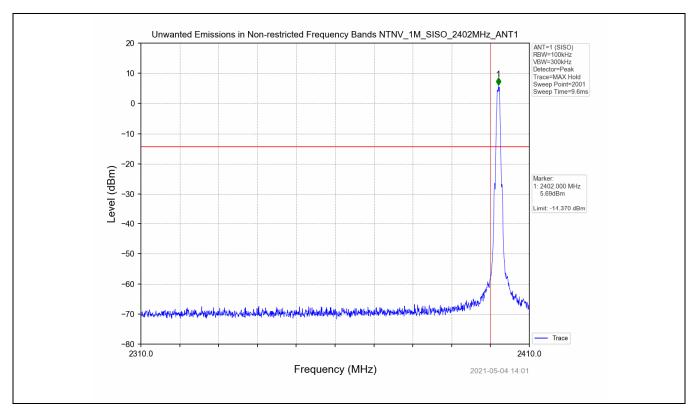
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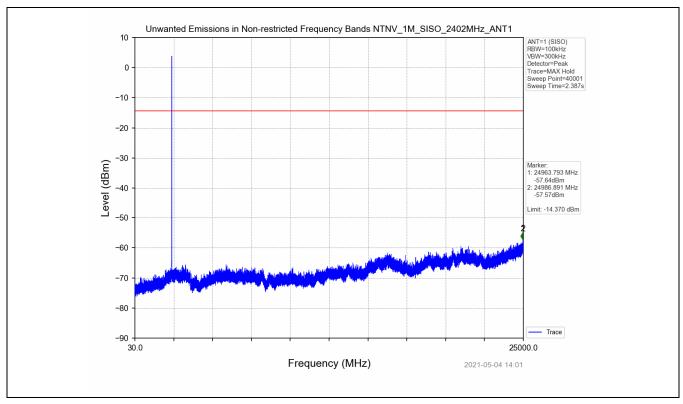
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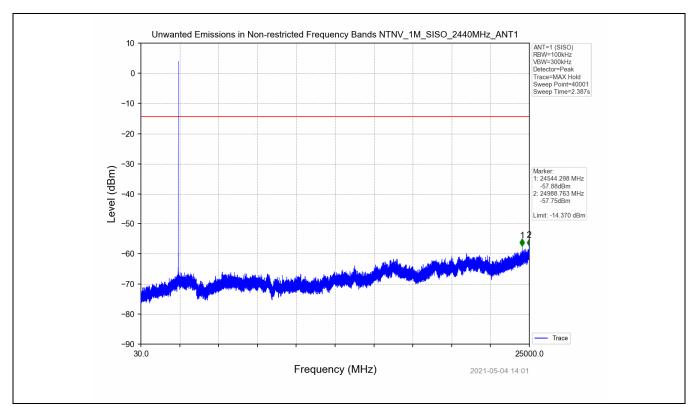
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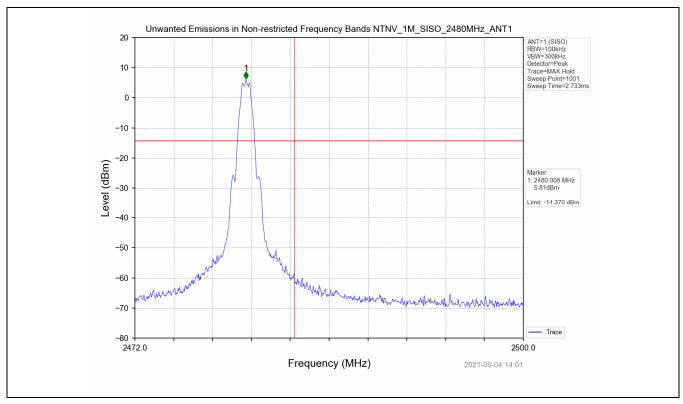
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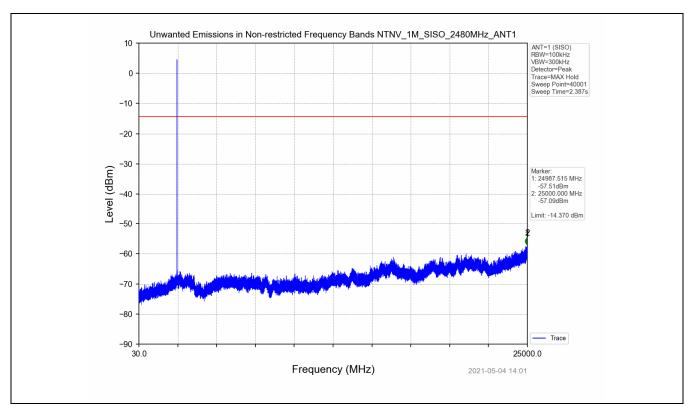
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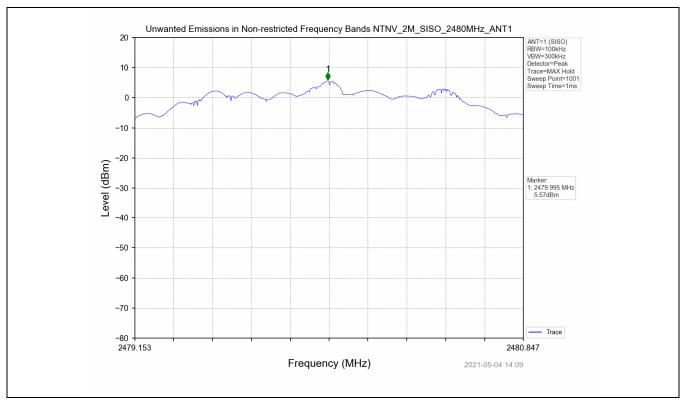
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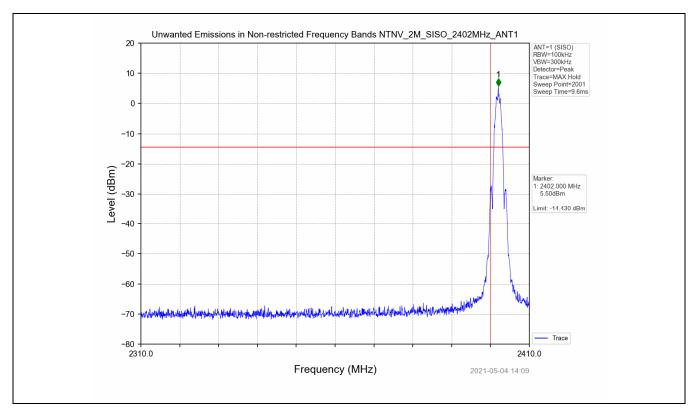
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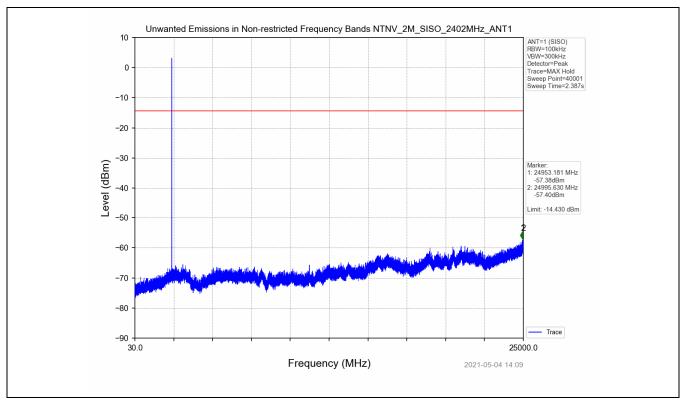
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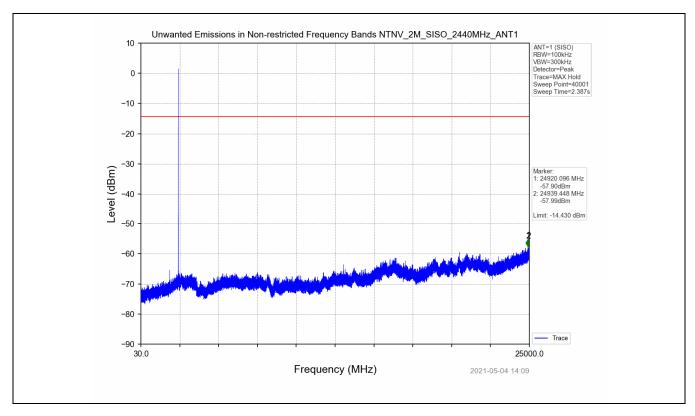
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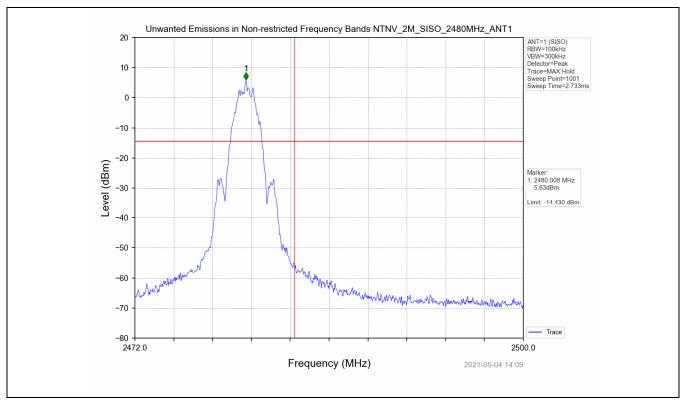
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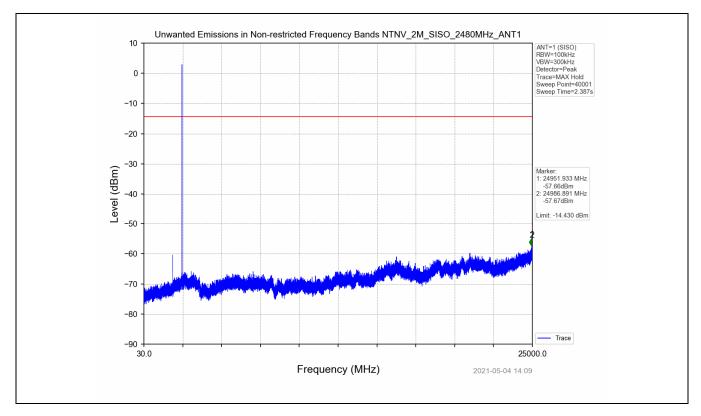
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Appendix for 15.247

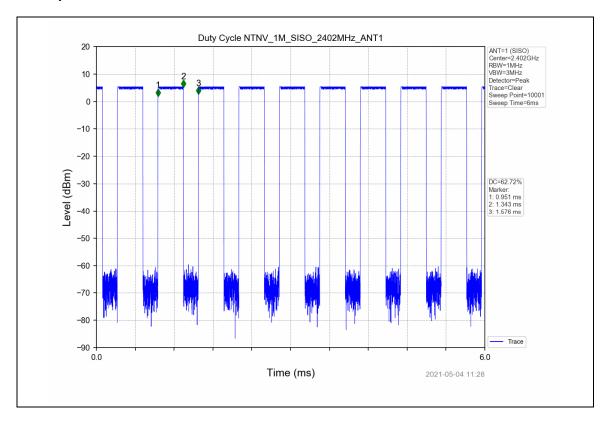
ABLUE Module

1. Duty Cycle

1.1 Test Result

Test Mode	Channel Frequency (MHz)	ТХ Туре	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
	2402	SISO	1	0.392	0.625	62.72	2.03
1M	2440	SISO	1	0.392	0.625	62.72	2.03
	2480	SISO	1	0.392	0.625	62.72	2.03
2M	2402	SISO	1	0.206	0.625	32.96	4.82
	2440	SISO	1	0.206	0.625	32.96	4.82
	2480	SISO	1	0.207	0.626	33.07	4.81

1.2 Test Graph





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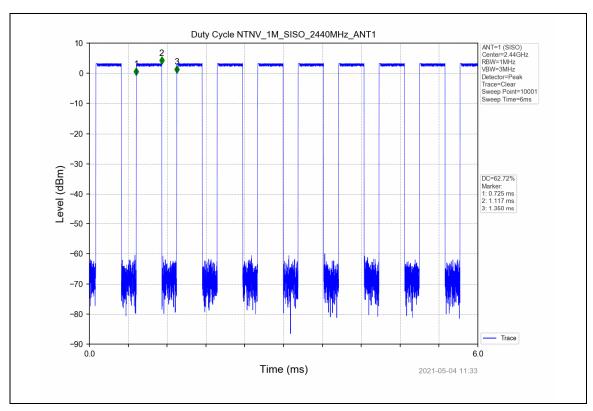
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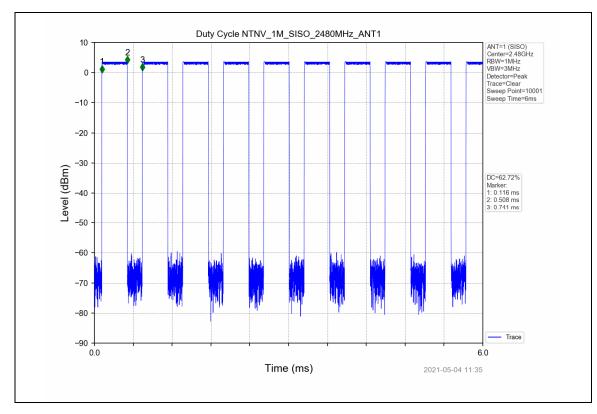
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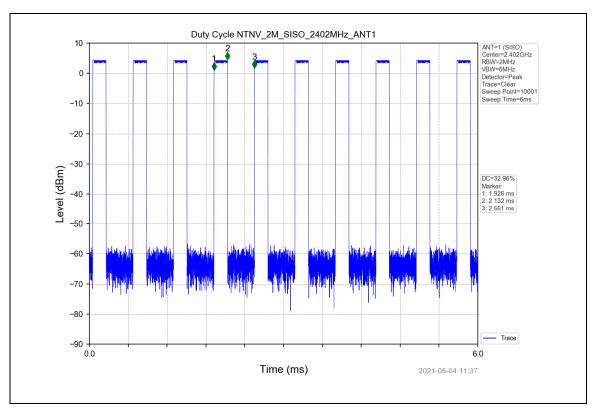
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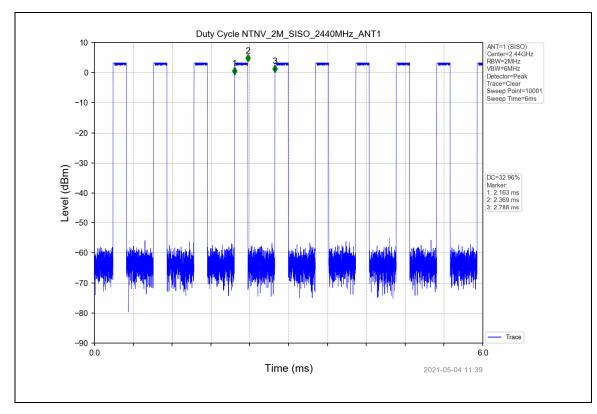
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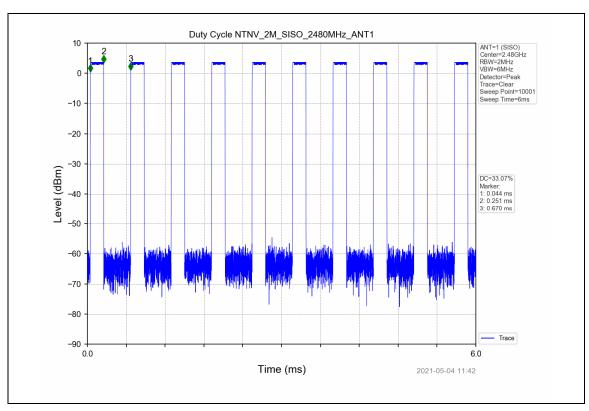
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2. Bandwidth

2.1 Test Result

Test Mode	Frequency (MHz)	ТХ Туре	ANT No.	6dB Bandwidth	Verdict
				Test Result (MHz)	verdict
	2402	SISO	1	0.690	PASS
1M	2440	SISO	1	0.688	PASS
	2480	SISO	1	0.690	PASS
2M	2402	SISO	1	1.136	PASS
	2440	SISO	1	1.136	PASS
	2480	SISO	1	1.127	PASS

TaskMada	Frequency (MHz)	ТХ Туре	ANT No.	99% Occupied Bandwidth			
Test Mode				Test Result (MHz)			
1M	2402	SISO	1	1.049	Only for Report Use		
	2440	SISO	1	1.048	Only for Report Use		
	2480	SISO	1	1.049	Only for Report Use		
2M	2402	SISO	1	2.036	Only for Report Use		
	2440	SISO	1	2.038	Only for Report Use		
	2480	SISO	1	2.037	Only for Report Use		



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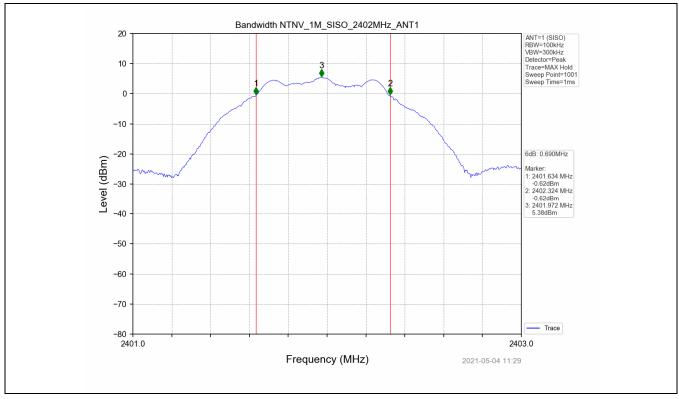
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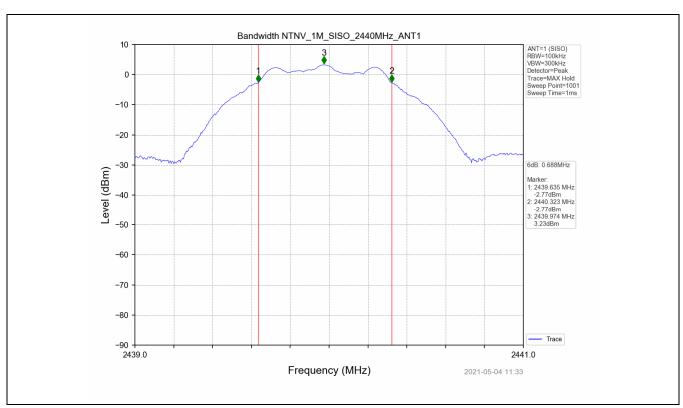


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2.2 Test Graph - 6dB Bandwidth







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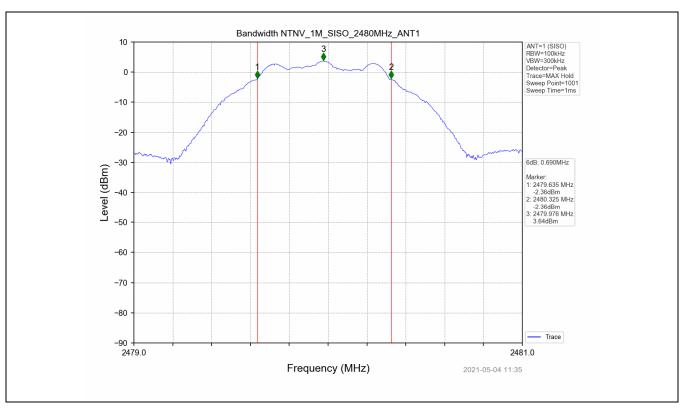
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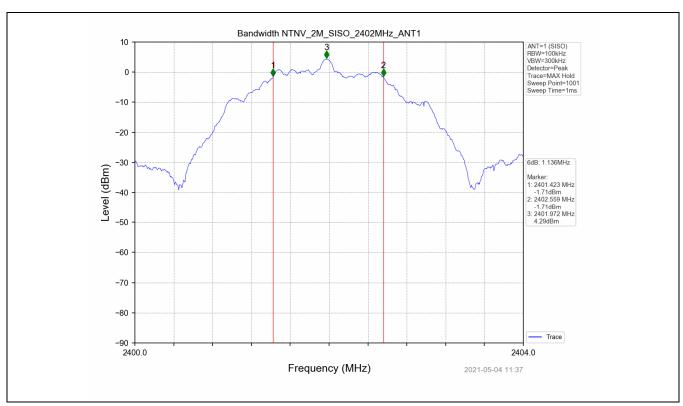
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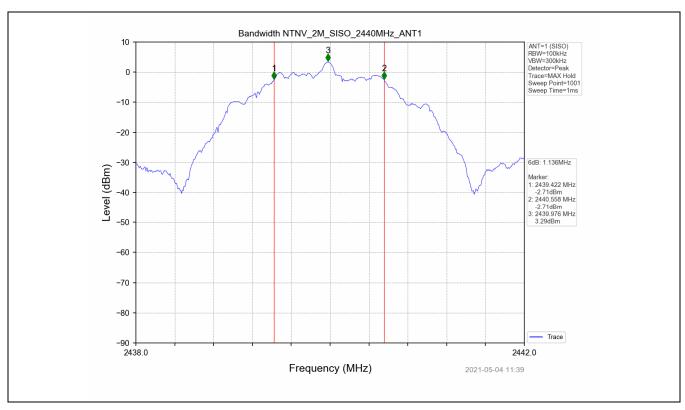
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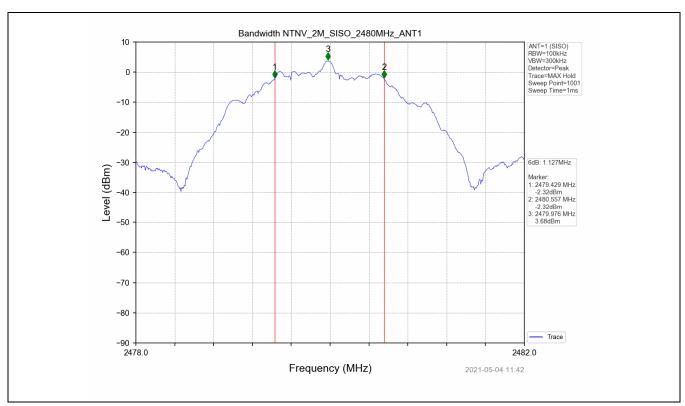
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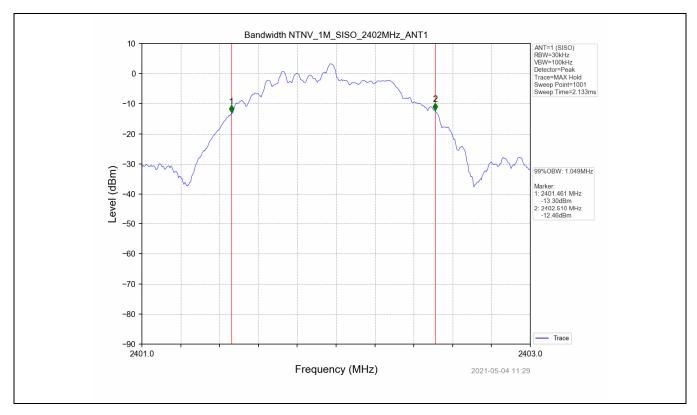
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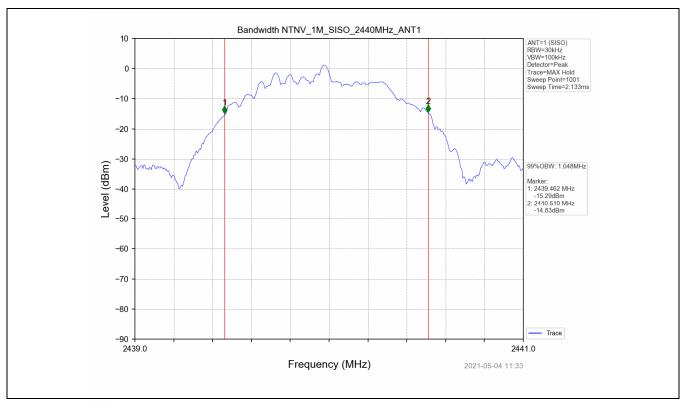


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2.3 Test Graph - 99% Occupied Bandwidth







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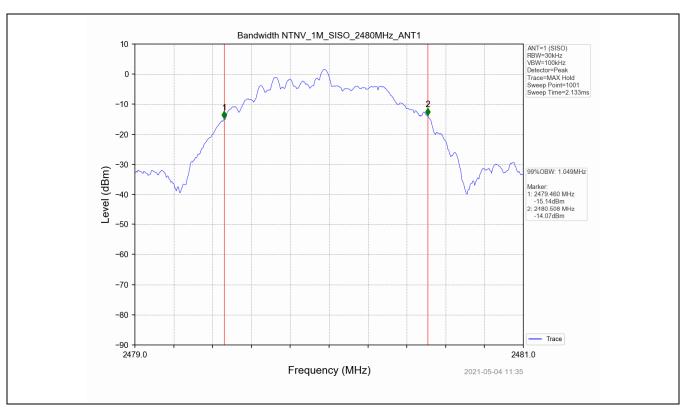
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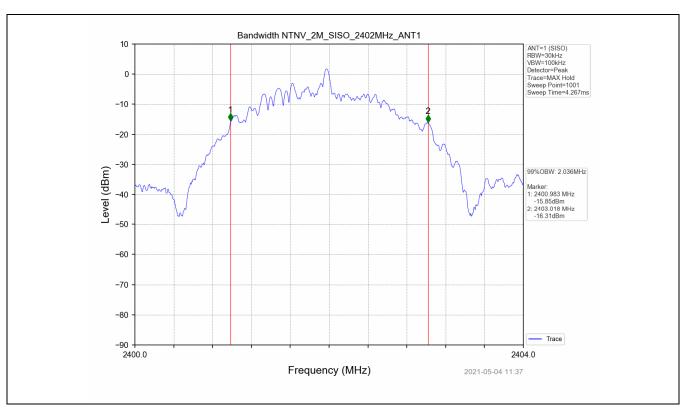
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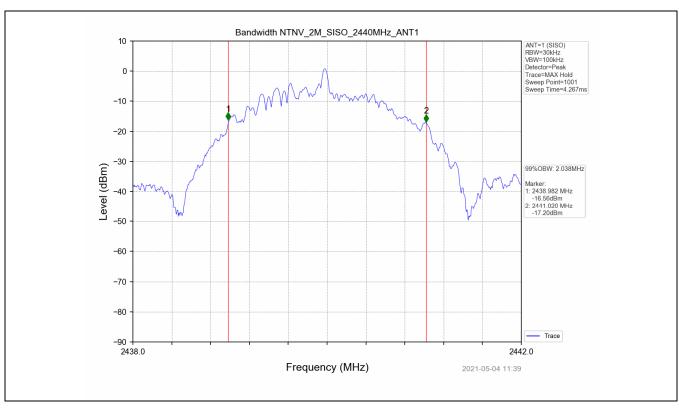
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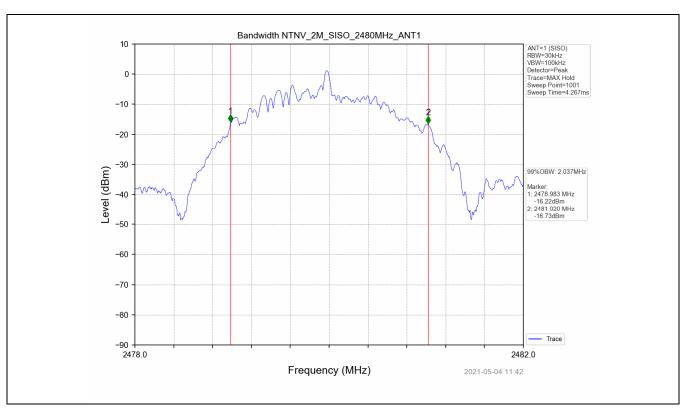
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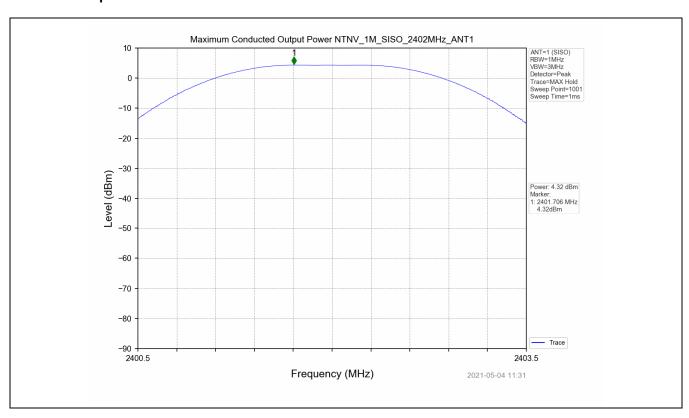
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3. Maximum Conducted Output Power

3.1 Test Result

Test Mode	Frequency (MHz)	Тх Туре	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict	
	(1011 12)		Ant 1			
	2402	SISO	4.32	30	PASS	
1M	2440	SISO	3.28	30	PASS	
	2480	SISO	3.67	30	PASS	
	2402	SISO	4.31	30	PASS	
2M	2440	SISO	3.30	30	PASS	
	2480	SISO	3.70	30	PASS	

3.2 Test Graph





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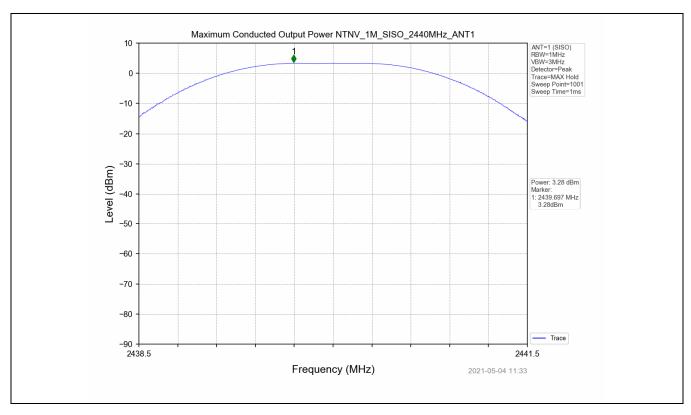
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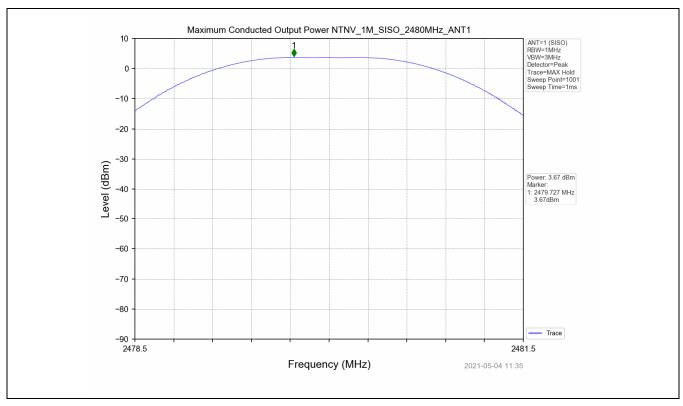
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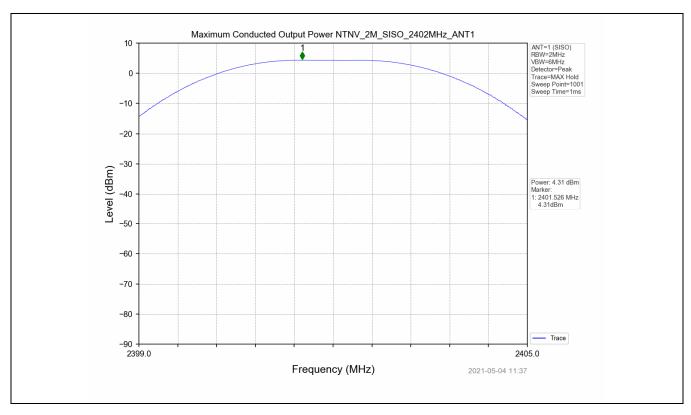
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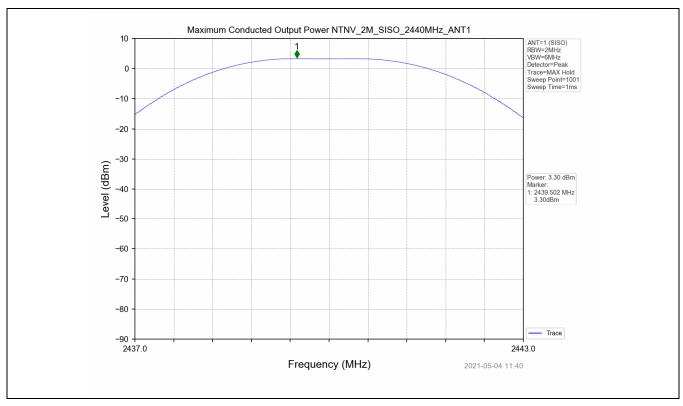
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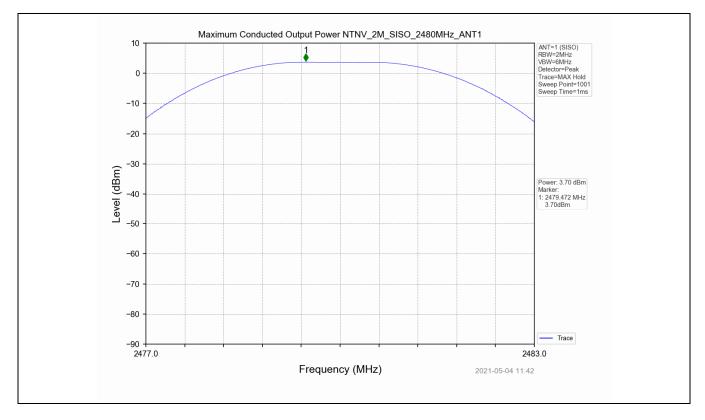
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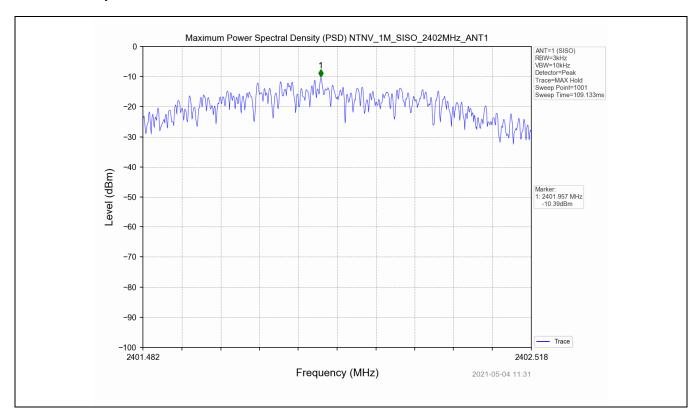
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4. Maximum Power Spectral Density (PSD)

4.1 Test Result

Test Mode	Frequency (MHz)	Тх Туре	Maximum Power Spectral Density (dBm/3KHz)	Limits (dBm/3kHz)	Verdict	
			Ant 1		1	
	2402	SISO	-10.39	≤8	PASS	
1M	2440	SISO	-11.57	≤8	PASS	
	2480	SISO	-11.41	≥8	PASS	
	2402	SISO	-12.96	≤8	PASS	
2M	2440	SISO	-14.17	≤8	PASS	
	2480	SISO	-13.85	≤8	PASS	

4.2 Test Graph





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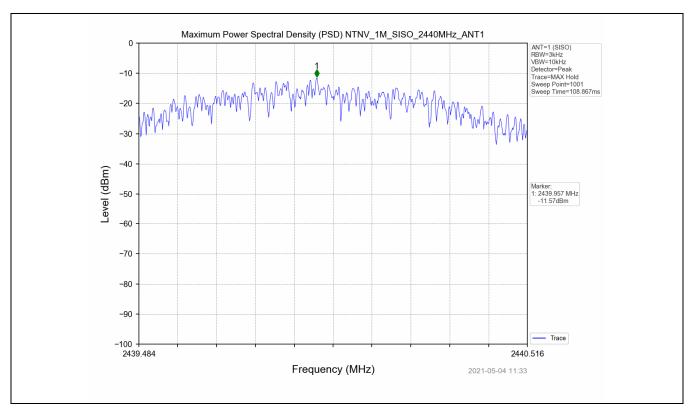
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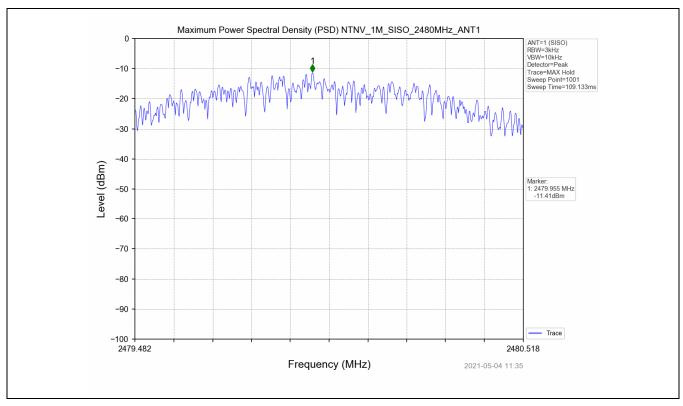
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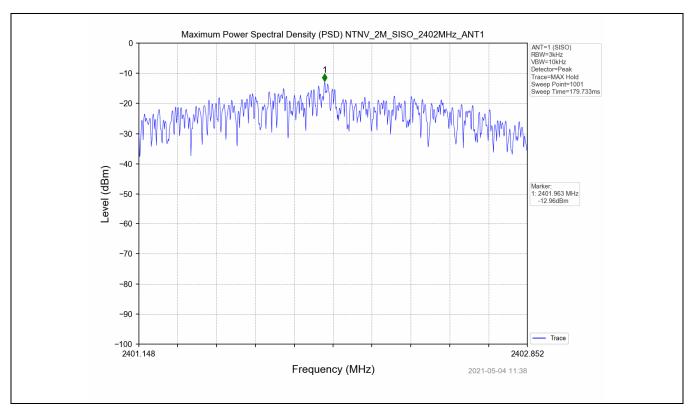
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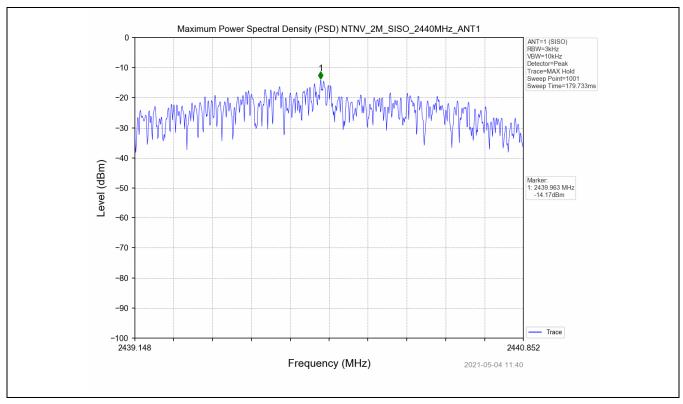
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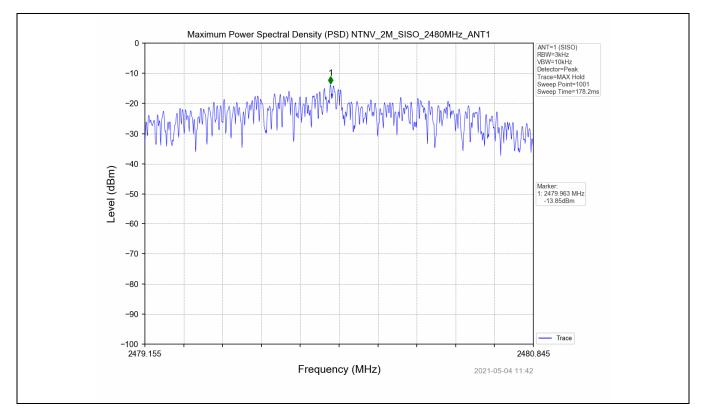
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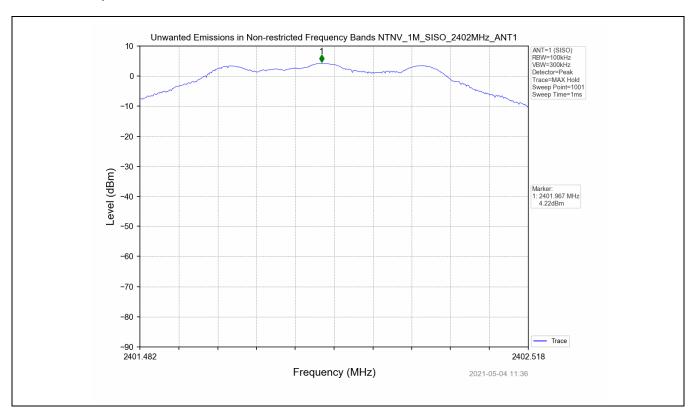
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5. Unwanted Emissions in Non-restricted Frequency Bands

5.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
	2402	SISO	1	Refer to test graph	-15.78	PASS
1M	2440	SISO	1	Refer to test graph	-15.78	PASS
	2480	SISO	1	Refer to test graph	-15.78	PASS
	2402	SISO	1	Refer to test graph	-15.80	PASS
2M	2440	SISO	1	Refer to test graph	-15.80	PASS
	2480	SISO	1	Refer to test graph	-15.80	PASS

5.2 Test Graph





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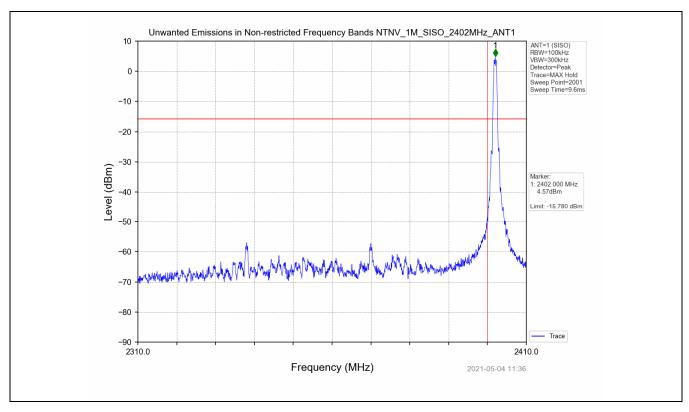
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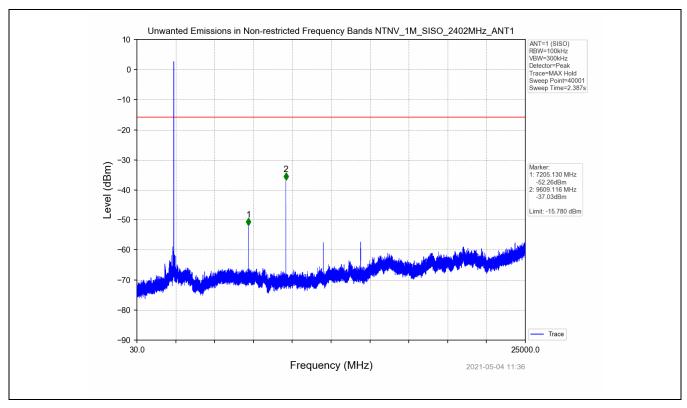
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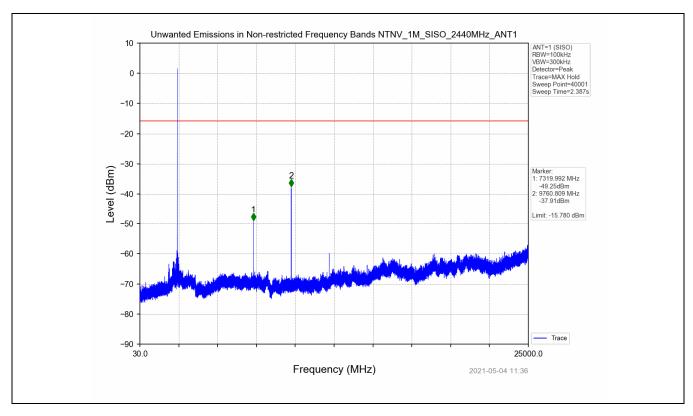
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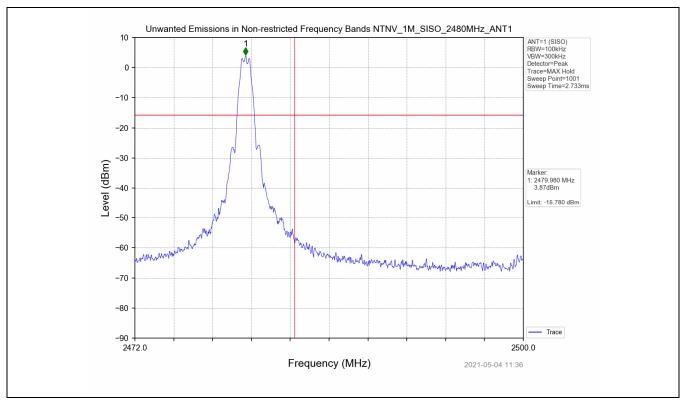
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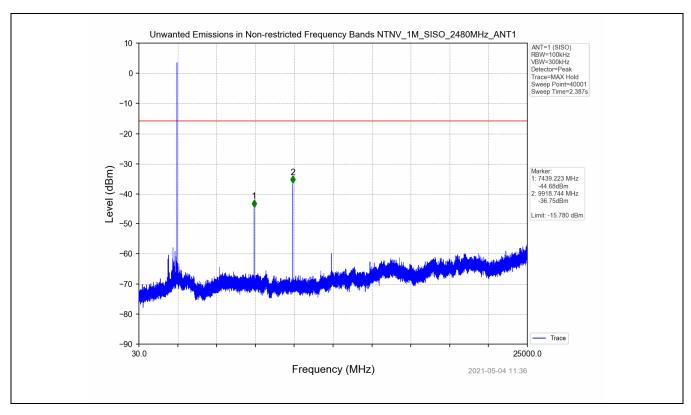
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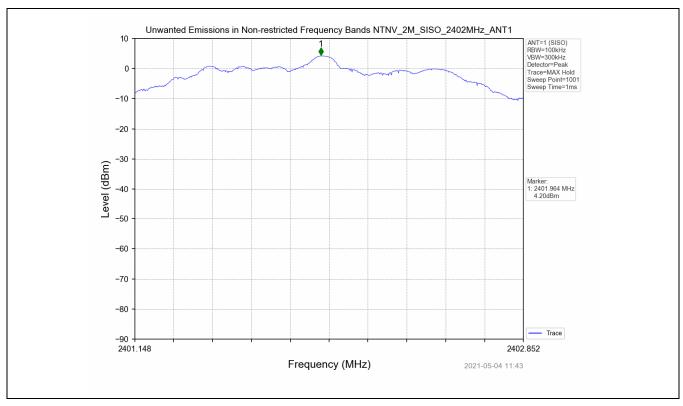
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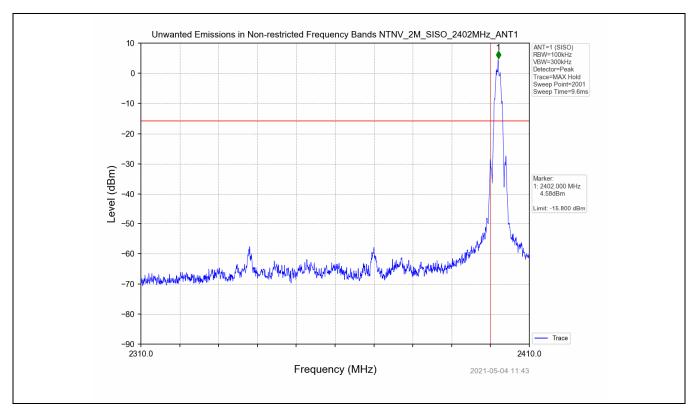
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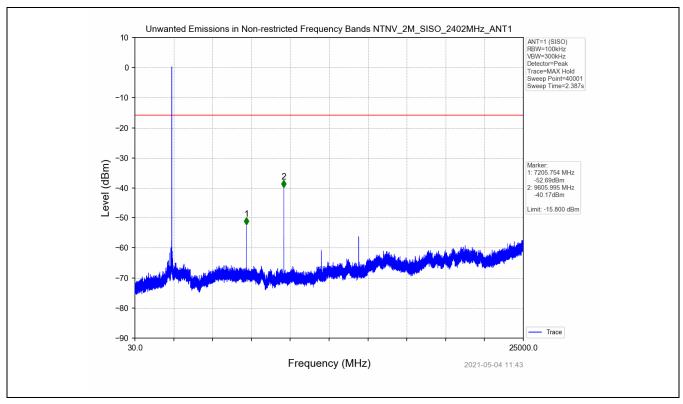
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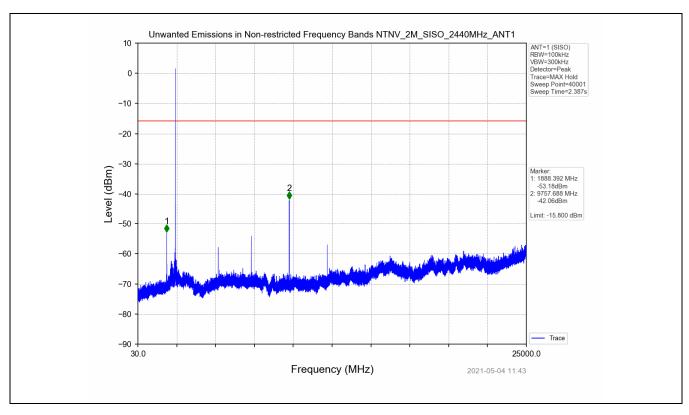
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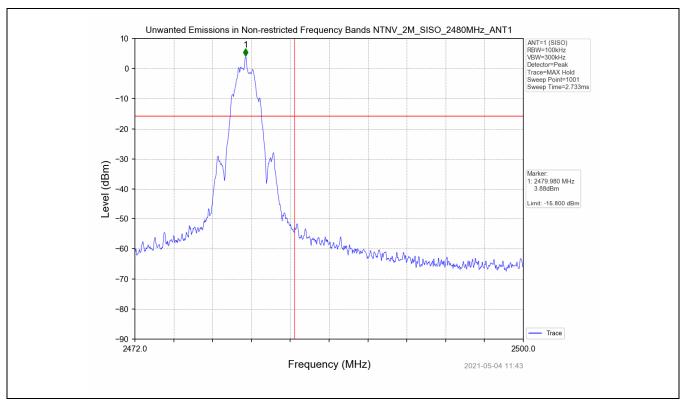
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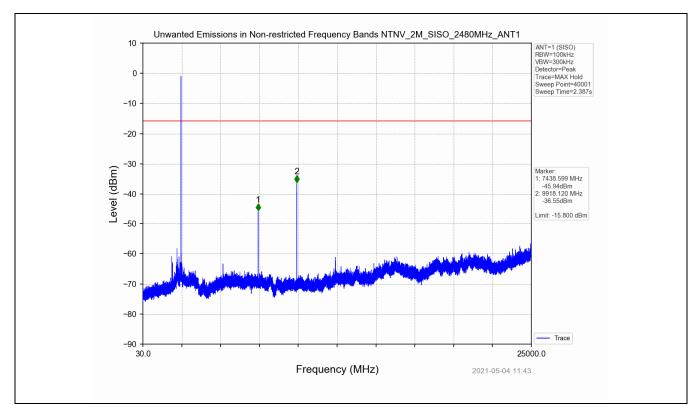
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