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TEST REPORT

Application No.:	SZEM2101000935CR		
Applicant:	Godox Photo Equipment Co., Ltd.		
Address of Applicant:	1st to 4th Floor,Building 2/1st to 4th Floor of Building 4, Yaochuan Industrial Zone, Tangwei Community, Fuhai Street, Bao'an District, Shenzhen 518103, China		
Manufacturer:	Godox Photo Equipment Co., Ltd.		
Address of Manufacturer:	1st to 4th Floor,Building 2/1st to 4th Floor of Building 4, Yaochuan Industrial Zone, Tangwei Community, Fuhai Street, Bao'an District, Shenzhen 518103, China		
Factory:	Godox Photo Equipment Co., Ltd.		
Address of Factory:	1st to 4th Floor,Building 2/1st to 4th Floor of Building 4, Yaochuan Industrial Zone, Tangwei Community, Fuhai Street, Bao'an District, Shenzhen 518103, China		
Equipment Under Test (EUT):		
EUT Name:	SILENT LED VIDEO LIGHT		
Model No.:	UL60(ULC60 for control unit)		
Trade Mark:	Godox		
FCC ID:	2ABYN025		
Standard(s) :	47 CFR Part 15, Subpart C 15.247		
Date of Receipt:	2021-01-21		
Date of Test:	2021-04-09 to 2021-04-24		
Date of Issue:	2021-05-27		
Test Result:	Pass*		

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

Keny. Ku

Keny Xu EMC Laboratory Manager

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	Revision Record					
Version	Chapter	Date	Modifier	Remark		
01		2021-05-27		Original		

Authorized for issue by:			
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	Powell Bao/Project Engineer	_	
	Eric Fu		
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Test Summary 2

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

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Minimum 6dB Bandwidth		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		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		ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass

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



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4 General Information

4.1 Details of E.U.T.

Power supply:	Input: AC 100-240V 50/60Hz 0.9A Max
	Output: DC 40V 2A
Cable(s):	AC cable: 485cm unshielded
	DC cable: 355cm unshielded
	Connect cable: 295cm unshielded
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version: 5.0 BLE	
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Antenna Type:	Integral
Antenna Gain:	1.74dBi

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Lithium ion battery pack	CONIX	BP-GL95A	N1/A
(Provided by client)	SONY	Output: DC14.8V, 6.6Ah	N/A

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.0dB (150kHz to 30MHz)
Conducted Peak Output Power	± 0.75dB
Minimum 6dB Bandwidth	± 3%
Power Spectrum Density	± 2.84dB
Conducted Band Edges Measurement	± 0.75dB
Conducted Spurious Emissions	± 0.75dB
Radiated Emissions which fall in the restricted bands	± 4.5dB (Below 1GHz);± 4.8dB (Above 1GHz)
Radiated Spurious Emissions	± 4.5dB
Bemark:	

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

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

FCC – Designation Number: CN1178

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

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

Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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Equipment List 5

Conducted Emissions at Mains Terminals (9kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-01	2021-03-24	2022-03-23
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
LISN	Rohde & Schwarz	ENV216	SEM007-16	2021-04-07	2022-04-06
Coaxial Cable	SGS	N/A	SEM033-02	2021-05-17	2022-05-16

Conducted Peak Output Power					
Equipment	Manufacturer	Manufacturer Model No Inventory		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	ment Manufacturer		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

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



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Conducted Band Edges Measurement					
Equipment	Manufacturer	Manufacturer Model No Inventor		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 Spurious Emissions					
Equipment	Manufacturer Model No		Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	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

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Manufacturer Model No Inv		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			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	e AUDIX e3 V8.2014-6- 27 N/A		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



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Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Pre-Amplifier	HP	8447D	SEM005-02	2020-09-24	2021-09-23
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-26	2019-10-14	2022-10-13
Coaxial Cable	SGS	N/A	SEM035-01	2020-05-17 2021-05-17	2021-05-16 2022-05-16
EMI Test Receiver	Agilent	N9038A	SEM004-05	2020-09-24	2021-09-23
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
966 Anechoic Chamber	CRT	N/A	SEM001-13	2019-10-12	2022-10-11

Radiated Emissions Above 1GHz					
Equipment	Manufacturer	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	• . • I N9010A I SEMUU4·		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

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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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

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

6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 1.74dBi.

Antenna location: Refer to internal photo.



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7 Radio Spectrum Matter Test Results

7.1 Conducted Peak Output Power

Test Requirement47 CFR Part 15, Subpart C 15.247(b)(3)Test Method:ANSI C63.10 (2013) Section 11.9.1Limit: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	725-5850 1 for frequency hopping systems and digital modulat	

7.1.1 E.U.T. Operation

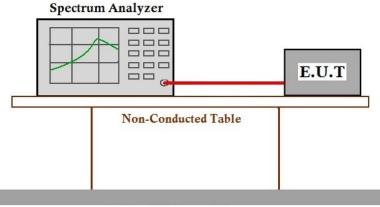
Operating Environment:

Temperature:	25.3 °C	Humidity: 36.9 % R	H Atmospheric Pressure: 1010 mbar
--------------	---------	--------------------	-----------------------------------

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps)+AC_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	06	TX mode(1Mbps)+Battery_Keep the EUT in continuously transmitting mode with GFSK modulation.

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: 25.3 °C

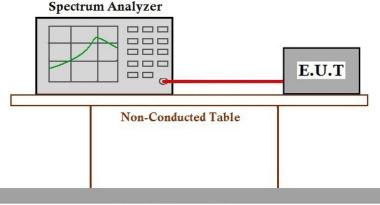
Humidity: 36.9 % RH

Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps)+AC_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	06	TX mode(1Mbps)+Battery_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.2.3 Test Setup Diagram



Ground Reference Plane

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

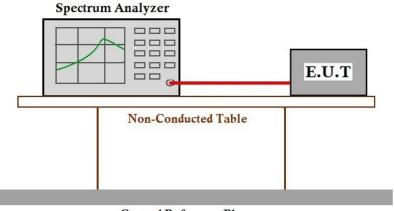
Operating Environment:

_						
Temperature:	25.3 °C	Humidity:	36.9 % RH	Atmospheric Pressure: 1	1010	mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps)+AC_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	06	TX mode(1Mbps)+Battery_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.3.3 Test Setup Diagram



Ground Reference Plane

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).

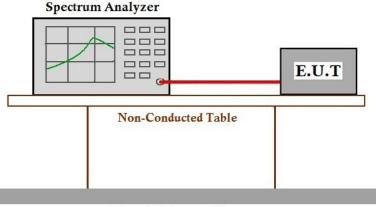
7.4.1 E.U.T. Operation

Operating Environment:

		••••••					
Tempe	erature:	25.3 °C	Humidity:	36.9 % RH	Atmospheric Pressure:	1010	mbar
7.4.2 Test M							
Pre-scan / Final test	Mode Code	Description					

Final test	Code	Description
Final test	02	TX mode(1Mbps)+AC_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	06	TX mode(1Mbps)+Battery_Keep the EUT in continuously transmitting mode with GFSK modulation.

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).

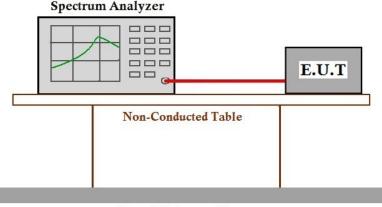
7.5.1 E.U.T. Operation

Operating Environment:

Temperature:	25.3 °C	Humidity:	36.9 % RH	Atmospheric Pressure:	1010	mbar
7.5.2 Test Mode Descr	ription					

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps)+AC_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	06	TX mode(1Mbps)+Battery_Keep the EUT in continuously transmitting mode with GFSK modulation.

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

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 guasi-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 Enviro	nment:					
Temperature:	23.5 °C	Humidity:	56.3 % RH	Atmospheric Pressure:	1010	mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps)+AC_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	06	TX mode(1Mbps)+Battery_Keep the EUT in continuously transmitting mode with GFSK modulation.



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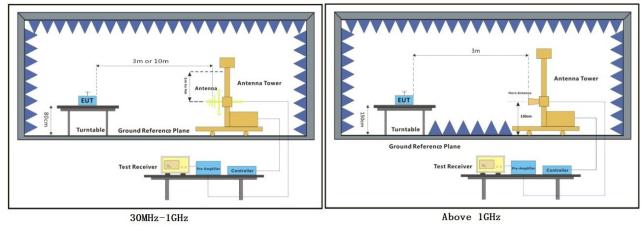


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7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

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

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

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

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

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

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

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

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

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

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

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

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



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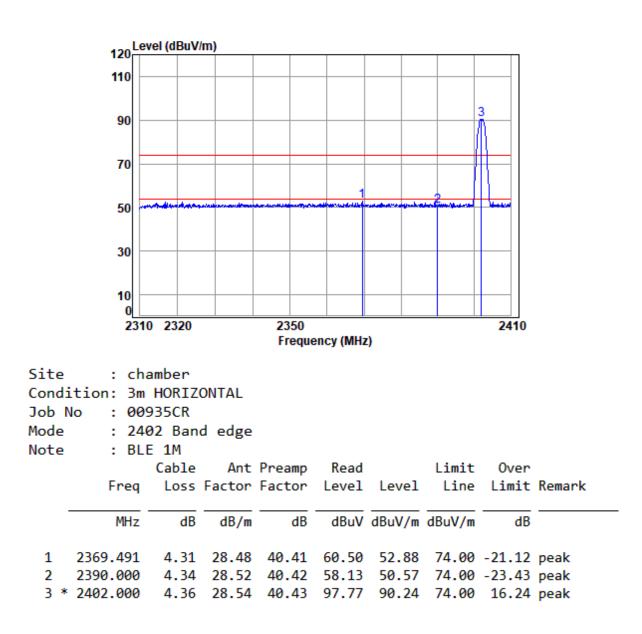
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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:Low





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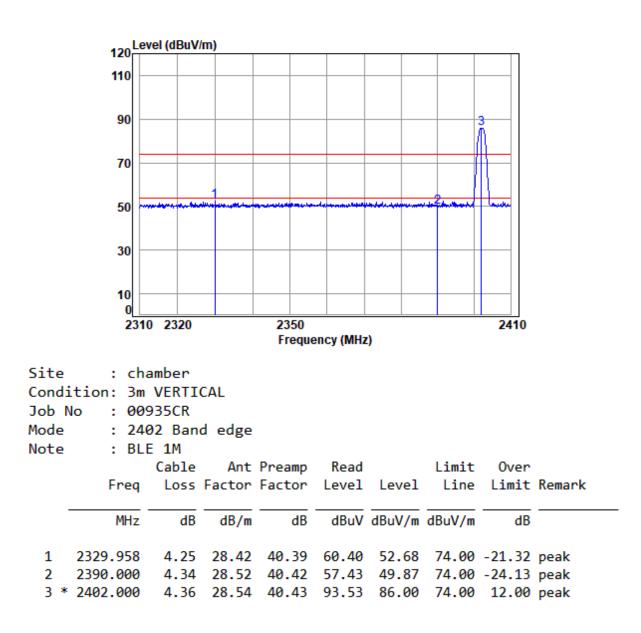
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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low





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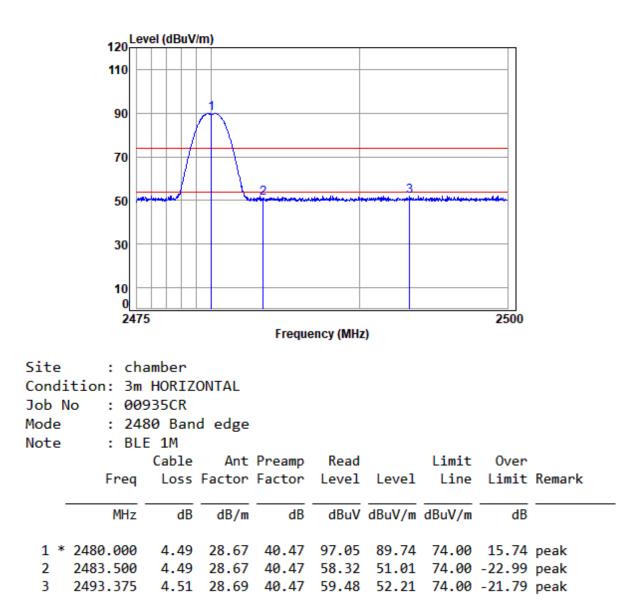
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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:High





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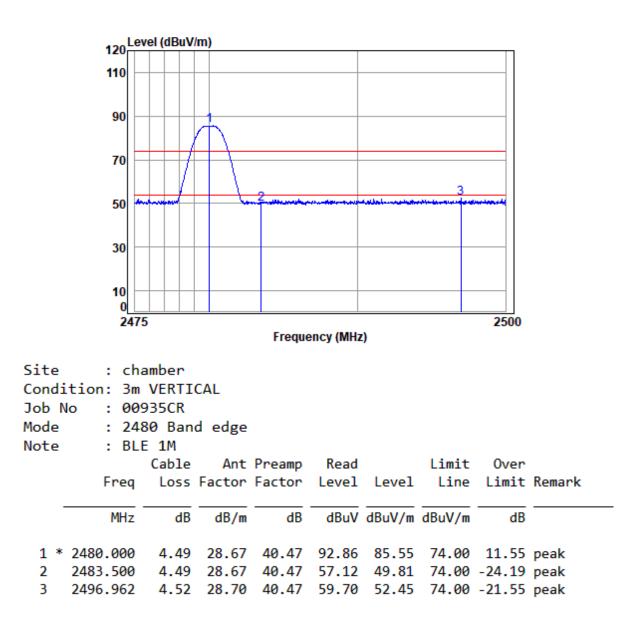
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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:High





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7.7 Radiated Spurious Emissions

Test Requirement	47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method:	ANSI C63.10 (2013) Section 6.4,6.5,6.6
Measurement Distance:	3m

Limit:

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

7.7.1 E.U.T. Operation

Operating Environment: Temperature: 23.5 °C

Humidity: 56.3 % RH

Atmospheric Pressure: 1010 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps)+AC_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	06	TX mode(1Mbps)+Battery_Keep the EUT in continuously transmitting mode with GFSK modulation.



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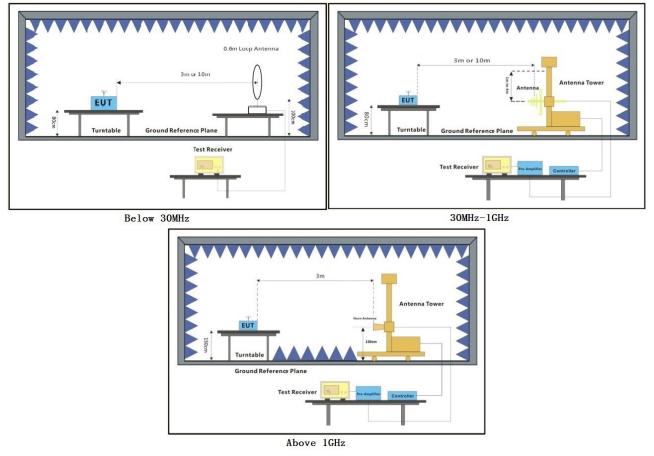
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7.7.3 Test Setup Diagram





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7.7.4 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 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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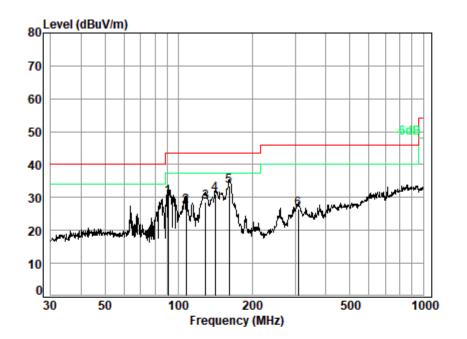


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Below 1GHz(Worst Case)

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



Site : chamber										
Condition: 3m HORIZONTAL										
Job No : 009	35CR									
Mode : 02										
	Cable	Ant	Preamp	Read		Limit	0ver			
Freq	Loss I	Factor	Factor	Level	Level	Line	Limit	Remark		
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB			
1 90.5374	0.68	13.85	25.81	41.37	30.09	43.50	-13.41	QP		
2 107.1337	0.87	15.84	25.76	36.50	27.45	43.50	-16.05	QP		
3 129.0146	0.92	18.00	25.64	35.25	28.53	43.50	-14.97	QP		
4 141.3298	0.90	18.95	25.58	36.63	30.90	43.50	-12.60	QP		
5 p 160.9089	0.78	19.36	25.50	38.91	33.55	43.50	-9.95	QP		
6 307.8313	1.09	19.74	25.16	30.85	26.52	46.00	-19.48	QP		



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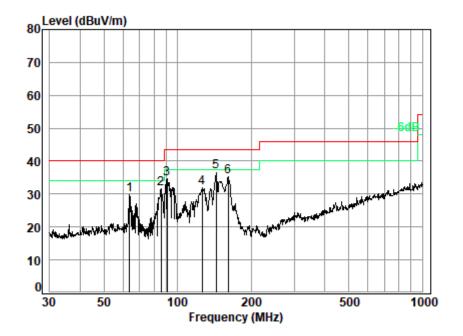
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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber Condition: 3m VERTICAL Job No : 00935CR Mode : 02									
100e . 02	Cable	Ant	Preamp	Read		Limit	0ver		
Freq			Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 63.7588	0.25	18.64	25.84	36.61	29.66	40.00	-10.34	QP	
2 85.5977	0.57	14.16	25.81	42.86	31.78	40.00	-8.22	QP	
3 90.5374	0.68	13.85	25.81	45.91	34.63	43.50	-8.87	QP	
4 125.8864	0.92	17.70	25.65	38.97	31.94	43.50	-11.56	QP	
5 p 143.8295	0.89	19.06	25.57	42.31	36.69	43.50	-6.81	QP	
6 160.9089	0.78	19.36	25.50	40.56	35.20	43.50	-8.30	QP	



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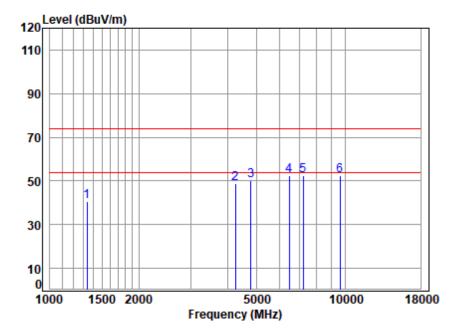
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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber Condition: 3m HORIZONTAL										
Job No : 00935CR										
Mode : 2402 TX SE										
			JL .							
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	1335.141	3.00	25.17	39.85	52.48	40.80	74.00	-33.20	peak	
2	4242.641	6.52	33.15	41.64	50.61	48.64	74.00	-25.36	peak	
3	4804.000	7.10	33.97	42.14	51.08	50.01	74.00	-23.99	peak	
4	6470.026	8.28	35.57	42.06	50.60	52.39	74.00	-21.61	peak	
5	7206.000	8.74	36.07	41.50	49.24	52.55	74.00	-21.45	peak	
6	9608.000	10.81	37.67	37.76	41.53	52.25	74.00	-21.75	peak	



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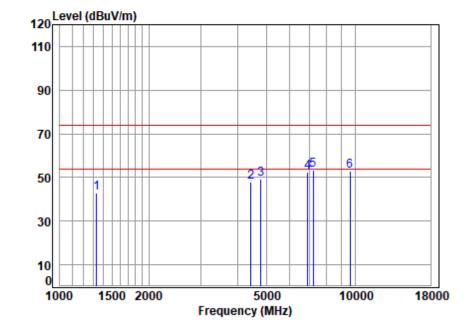
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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site	:	chamber
Condition	:	3m VERTICAL
Job No	:	00935CR
Mode	:	2402 TX SE
Note	:	BLE 1M
		Cable Ant Pream
	_	

		Cable	Ant	Preamp	Kead		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1331.288	3.00	25.15	39.85	54.67	42.97	74.00	-31.03	peak
2	4430.628	6.70	33.48	41.81	49.56	47.93	74.00	-26.07	peak
3	4804.000	7.10	33.97	42.14	50.17	49.10	74.00	-24.90	peak
4	6914.763	8.50	35.85	41.76	49.76	52.35	74.00	-21.65	peak
5	7206.000	8.74	36.07	41.50	50.06	53.37	74.00	-20.63	peak
6	9608.000	10.81	37.67	37.76	42.03	52.75	74.00	-21.25	peak

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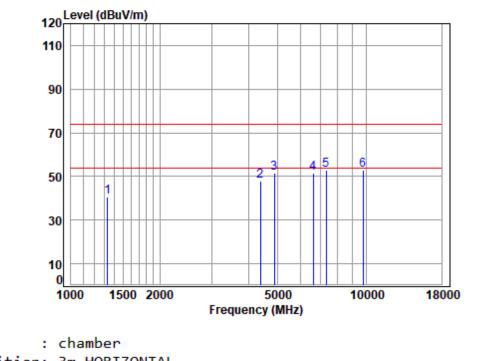
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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Site : chamber Condition: 3m HORIZONTAL Job No : 00935CR 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	1331.288	3.00	25.15	39.85	52.21	40.51	74.00	-33.49	peak	
2	4392.376	6.66	33.42	41.78	49.60	47.90	74.00	-26.10	peak	
3	4880.000	7.18	34.06	42.20	52.68	51.72	74.00	-22.28	peak	
4	6621.375	8.34	35.67	41.95	49.61	51.67	74.00	-22.33	peak	
5	7320.000	8.84	36.16	41.40	49.22	52.82	74.00	-21.18	peak	
6	9760.000	10.76	37.76	37.50	41.79	52.81	74.00	-21.19	peak	



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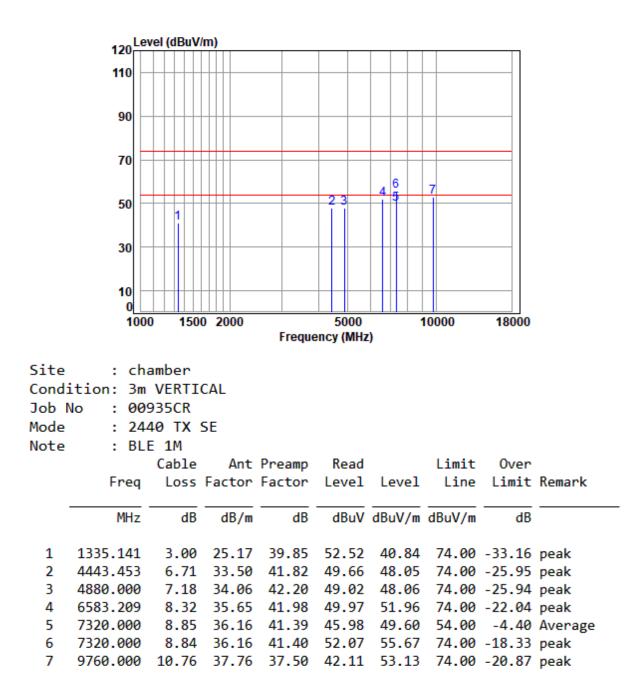
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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:middle





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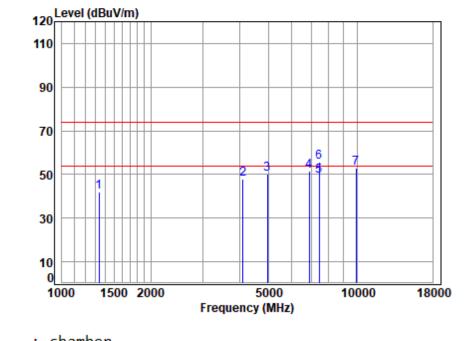
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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber Condition: 3m HORIZONTAL Job No : 00935CR 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	1335.141	3.00	25.17	39.85	53.63	41.95	74.00	-32.05	peak
2	4098.010	6.38	32.88	41.50	50.05	47.81	74.00	-26.19	peak
3	4960.000	7.26	34.15	42.27	51.01	50.15	74.00	-23.85	peak
4	6874.906	8.48	35.83	41.78	49.06	51.59	74.00	-22.41	peak
5	7440.000	8.95	36.25	41.30	45.38	49.28	54.00	-4.72	Average
6	7440.000	8.96	36.25	41.29	51.55	55.47	74.00	-18.53	peak

9920.000 10.71 37.85 37.23 41.65 52.98 74.00 -21.02 peak



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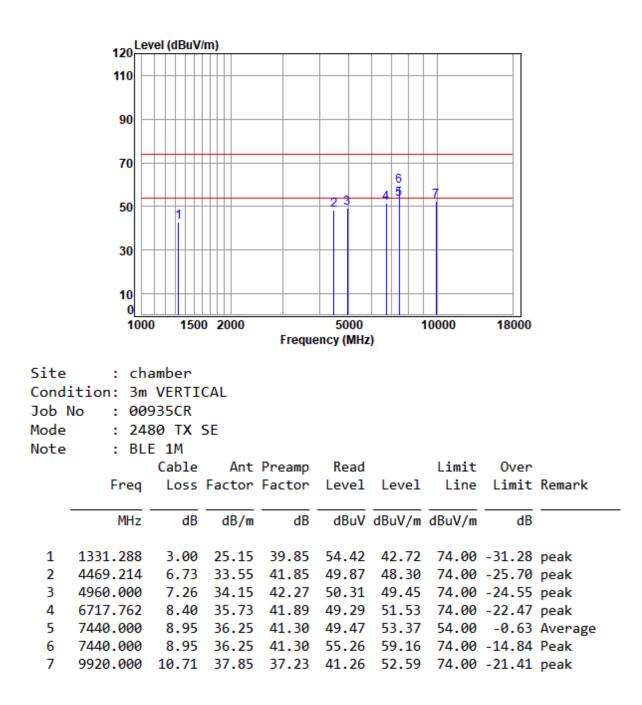
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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:High





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8 Emission Test Results

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

Test Requirement:47 CFR Part 15, Subpart C 15.247 and Part 15, Subpart B 15.207Test Method:ANSI C63.10 (2013) Section 6.2

Limit:

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

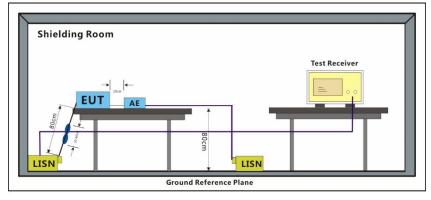
8.1.1 E.U.T. Operation

Operating Environment:						
Temperature:	20.7 °C	Humidity:	57.6 % RH	Atmospheric Pressure:	1010	mbar

8.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps)+AC_Keep the EUT in continuously transmitting mode with GFSK modulation.

8.1.3 Test Setup Diagram





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8.1.4 Measurement Procedure and Data

1) The mains terminal disturbance voltage test was conducted in a shielded room.

2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50 μ H + 50hm 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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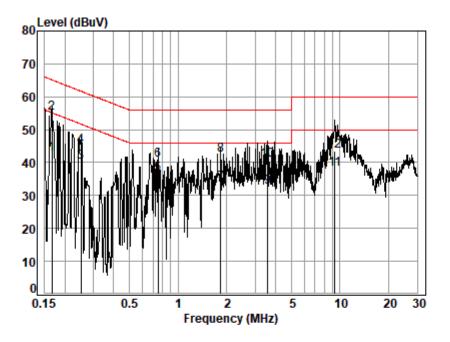
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Test Mode: 02; Line: Live line;

Site :	Shielding	Room
Condition:	Line	
Job No. :	00935CR	
Test mode:	02	

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1659	0.02	9.81	32.71	42.54	55.16	-12.62	Average
2	0.1659	0.02	9.81	45.28	55.11	65.16	-10.05	QP
3	0.2521	0.03	9.78	30.41	40.22	51.69	-11.47	Average
4	0.2521	0.03	9.78	35.12	44.93	61.69	-16.76	QP
5	0.7509	0.04	9.80	26.61	36.45	46.00	-9.55	Average
6	0.7509	0.04	9.80	31.01	40.85	56.00	-15.15	QP
7	1.8386	0.07	9.84	23.93	33.84	46.00	-12.16	Average
8	1.8386	0.07	9.84	32.50	42.41	56.00	-13.59	QP
9	3.5843	0.13	9.91	22.38	32.42	46.00	-13.58	Average
10	3.5843	0.13	9.91	30.80	40.84	56.00	-15.16	QP
11	9.3024	0.21	10.22	27.47	37.90	50.00	-12.10	Average
12	9.3024	0.21	10.22	33.02	43.45	60.00	-16.55	QP



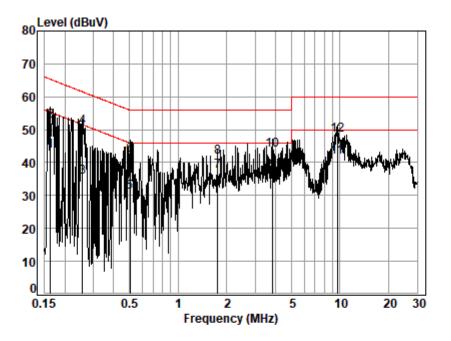
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Test Mode: 02; Line: Neutral Line;

Site :	Shielding	Room
Condition:	Neutral	
Job No. :	00935CR	
Test mode:	02	

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1624	0.02	9.71	33.70	43.43	55.34	-11.91	Average
2	0.1624	0.02	9.71	43.00	52.73	65.34	-12.61	QP
3	0.2575	0.03	9.72	25.94	35.69	51.51	-15.82	Average
4	0.2575	0.03	9.72	41.08	50.83	61.51	-10.68	QP
5	0.5047	0.05	9.72	21.27	31.04	46.00	-14.96	Average
6	0.5047	0.05	9.72	32.64	42.41	56.00	-13.59	QP
7	1.7529	0.06	9.77	27.70	37.53	46.00	-8.47	Average
8	1.7529	0.06	9.77	31.87	41.70	56.00	-14.30	QP
9	3.8399	0.14	9.89	27.49	37.52	46.00	-8.48	Average
10	3.8399	0.14	9.89	33.74	43.77	56.00	-12.23	QP
11	9.6028	0.22	10.32	31.27	41.81	50.00	-8.19	Average
12	9.6028	0.22	10.32	37.97	48.51	60.00	-11.49	QP



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Test Setup Photo 9

Refer to Setup Photos

10 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZEM2101000935CR



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11 Appendix

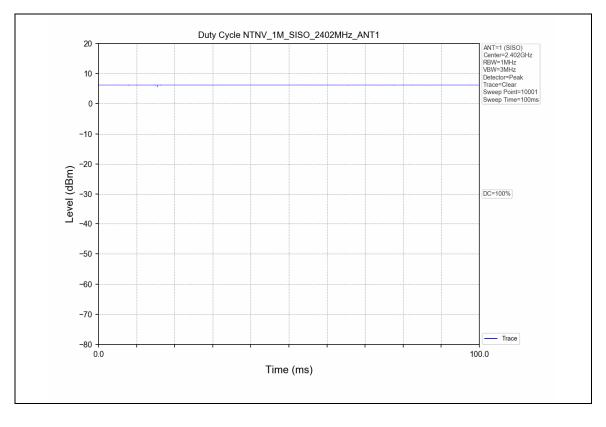
Appendix for 15.247

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	100.000	100.000	100.00	0.00
1M	2440	SISO	1	100.000	100.000	100.00	0.00
	2480	SISO	1	100.000	100.000	100.00	0.00

1.2 Test Graph





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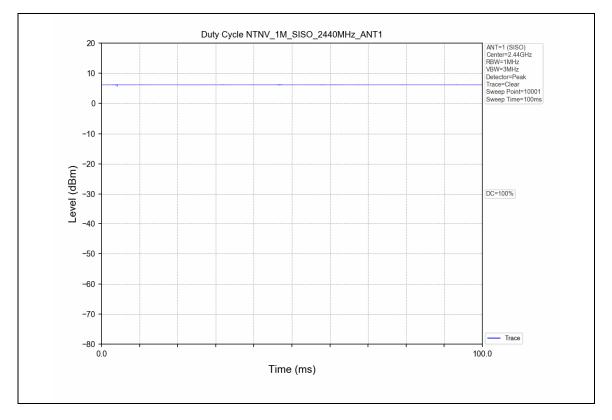
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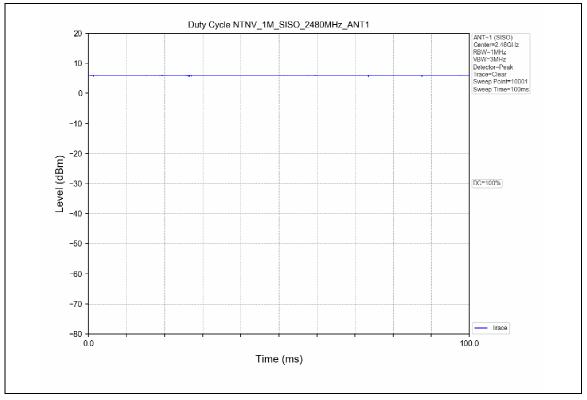


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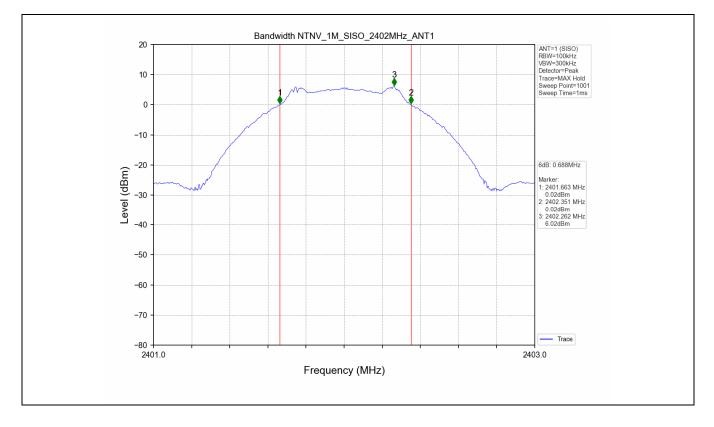
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2. Bandwidth

2.1 Test Result

Teet Mede	Frequency (MHz)		ANT No.	6dB Bai	Verdiet	
Test Mode				Test Result (MHz)	Limits (MHz)	Verdict
	2402	SISO	1	0.688	≥0.5	PASS
1M	2440	SISO	1	0.676	≥0.5	PASS
	2480	SISO	1	0.674	≥0.5	PASS

2.2 Test Graph - 6dB Bandwidth

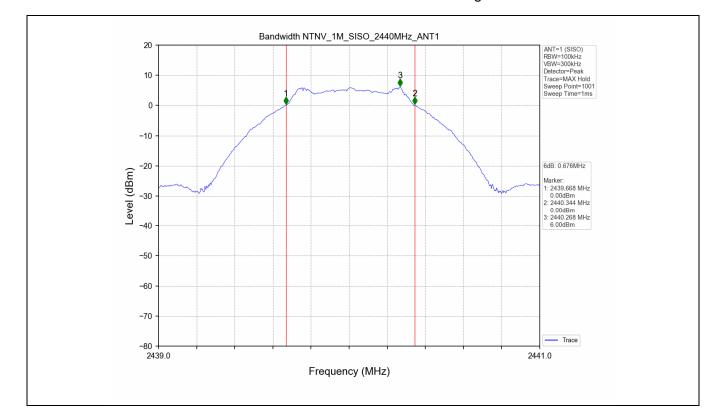


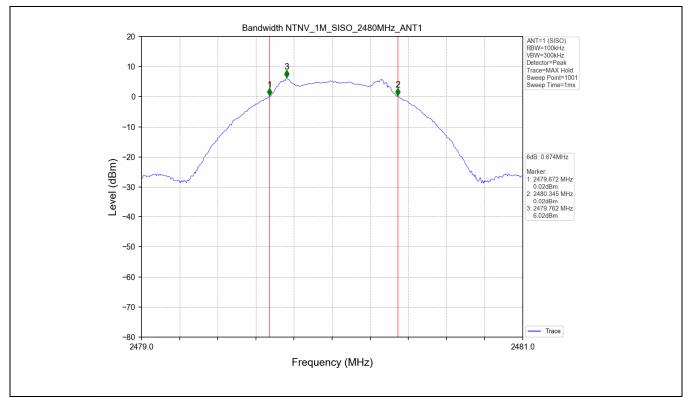




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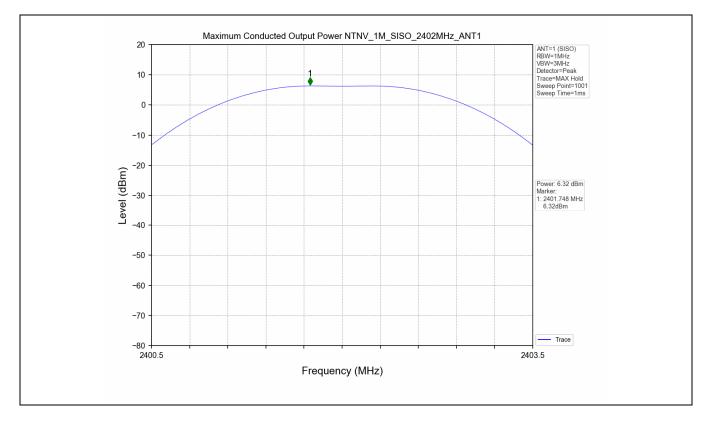
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3. Maximum Conducted Output Power

3.1 Test Result

Test Mode	Frequency (MHz)	Тх Туре	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
	(101112)		Ant 1		
1M	2402	SISO	6.32	30	PASS
	2440	SISO	6.30	30	PASS
	2480	SISO	6.05	30	PASS

3.2 Test Graph



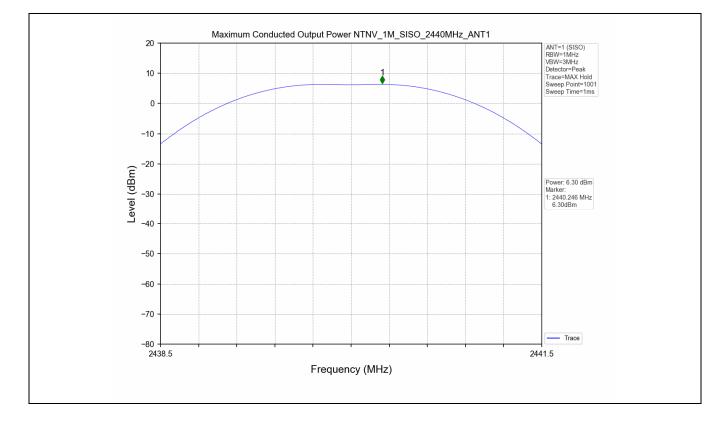


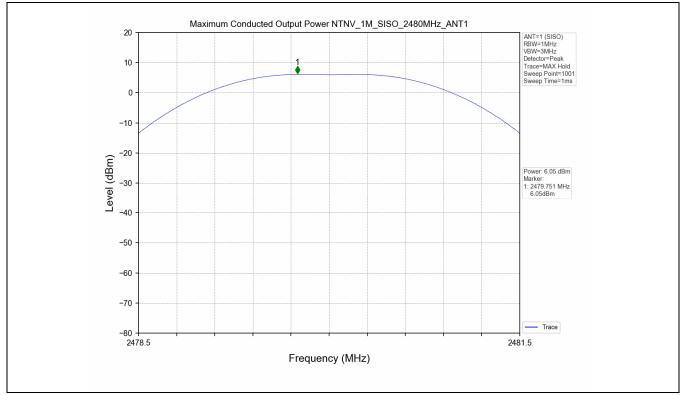


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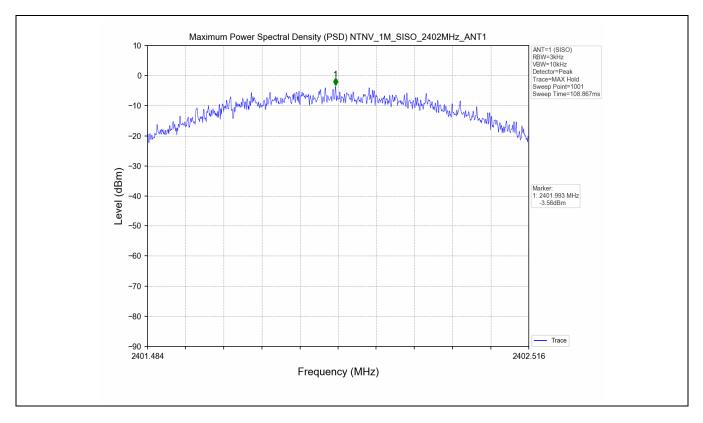
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4. Maximum Power Spectral Density (PSD)

4.1 Test Result

Test Mode	Frequency (MHz)	Тх Туре	Maximum Power Spectral Density (dBm/3KHz) Ant 1	Limits (dBm/3kHz)	Verdict
	2402	SISO	-3.56	≤8	PASS
1M	2440	SISO	-1.98	≤8	PASS
	2480	SISO	-3.24	≤8	PASS

4.2 Test Graph



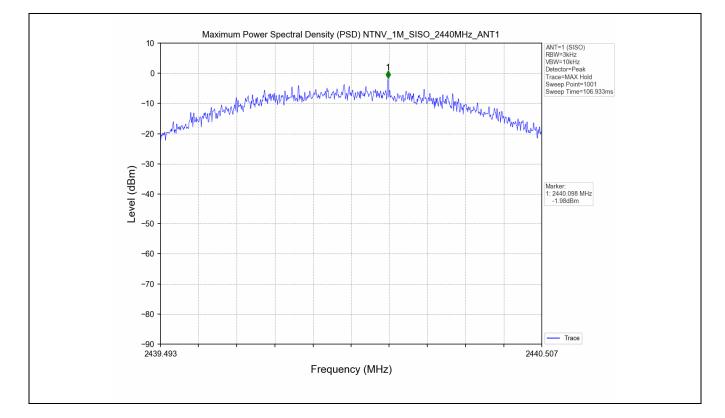


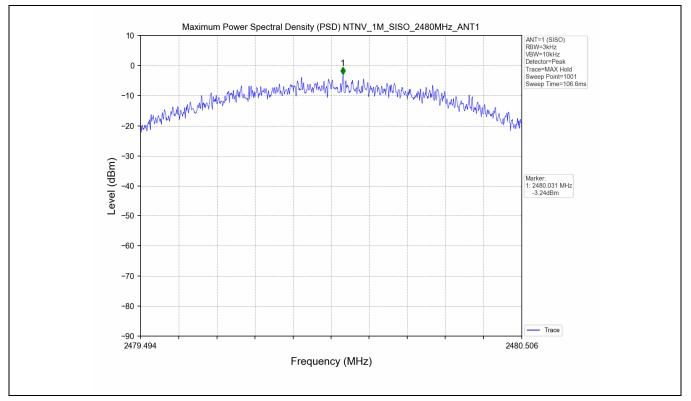


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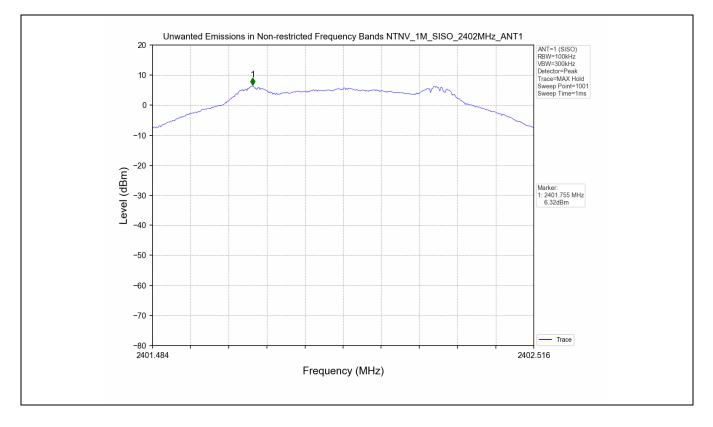
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5. Unwanted Emissions in Non-restricted Frequency Bands

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	-13.68	PASS
1M	2440	SISO	1	Refer to test graph	-13.68	PASS
	2480	SISO	1	Refer to test graph	-13.68	PASS

5.2 Test Graph

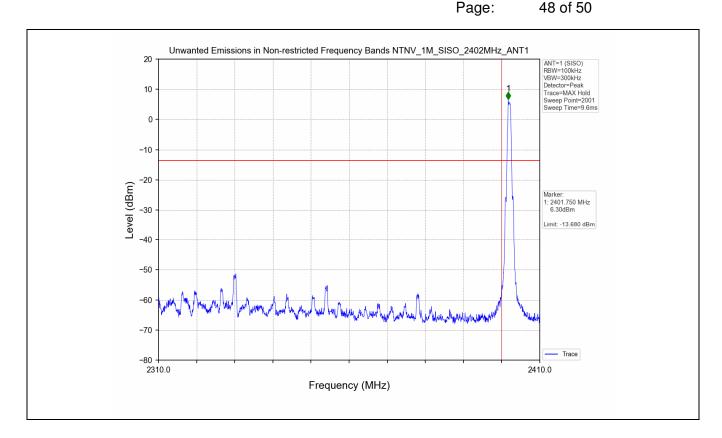


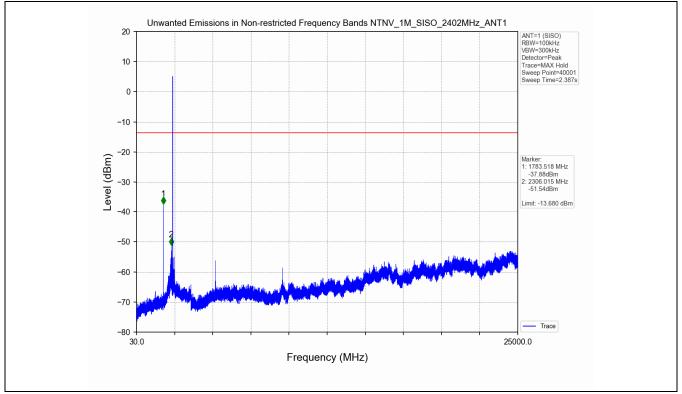




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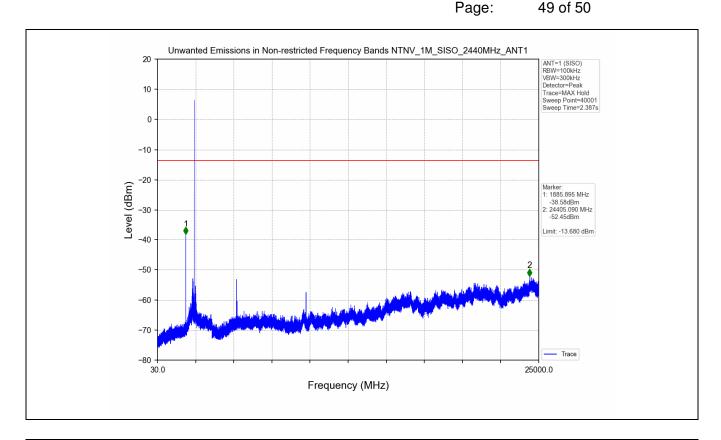
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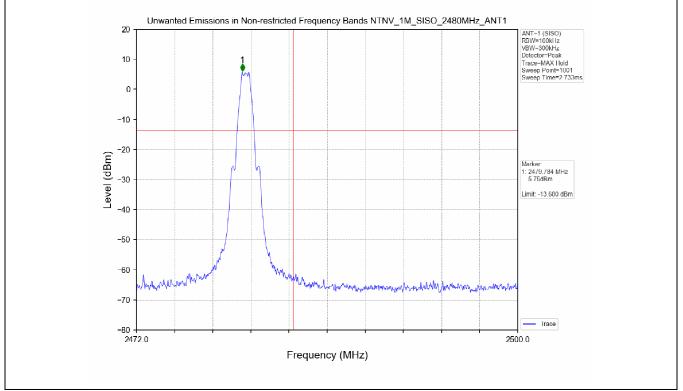
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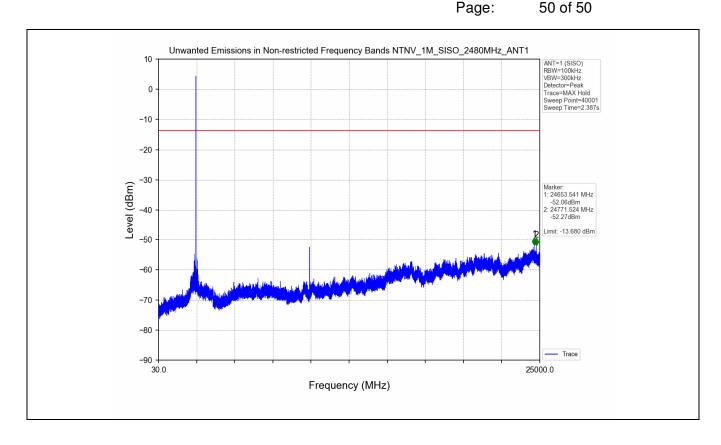
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