

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200002904

Page: 1 of 74

# TEST REPORT

Application No.: FYCR2302000029AT

Applicant: Armatura LLC

Address of Applicant: 190 Bluegrass Valley Parkway Alpharetta Georgia 30005 United States

Manufacturer: Armatura LLC

Address of Manufacturer: 190 Bluegrass Valley Parkway Alpharetta Georgia 30005 United States

Factory: Armatura Tech Co., Ltd

Address of Factory: 1. 999/43 Moo15 Bangsaothong, Samutprakarn 10570, Thailand

2. 999/120-121 Moo15 Bangsaothong, Samutprakarn 10570, Thailand

**Equipment Under Test (EUT):** 

EUT Name: Smart Reader Model No.: EP30CF

Trade Mark:

ARMATURA

FCC ID: 2A5UQ-EP30CF

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

**Date of Receipt:** 2023-02-02

**Date of Test:** 2023-02-16 to 2023-02-28

**Date of Issue:** 2023-03-03

Test Result: Pass\*

Winkey Wang

Winkey Wang

EMC Technical Manager



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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200002904

Page: 2 of 74

	Revision Record							
Version	Chapter	Date	Modifier	Remark				
01		2023-03-03		Original				

Authorized for issue by:		
	Tree Zhan	
	Tree Zhan/Project Engineer	
	WinkeyWarg	
	Winkey Wang/Reviewer	



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200002904

Page: 3 of 74

# 2 Test Summary

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

Radio Spectrum Matter Part					
Item	Standard	Method	Requirement	Result	
Conducted Emissions at AC Power Line (150kHz-30MHz)		ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass	
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	47 CFR Part 15,	ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247€	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	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	



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200002904

Page: 4 of 74

### 3 Contents

		Page
1	COVER PAGE	1
2	2 TEST SUMMARY	3
3	3 CONTENTS	4
4		
	4.1 DETAILS OF E.U.T.	6
	4.2 DESCRIPTION OF SUPPORT UNITS	
	4.3 MEASUREMENT UNCERTAINTY	
	4.4 TEST LOCATION	
	4.5 TEST FACILITY	
	<ul><li>4.6 DEVIATION FROM STANDARDS</li><li>4.7 ABNORMALITIES FROM STANDARD CONDITIONS</li></ul>	
5	5 EQUIPMENT LIST	8
c	RADIO SPECTRUM TECHNICAL REQUIREMENT	44
6		
	6.1 ANTENNA REQUIREMENT	
	6.1.1 Test Requirement:	
	6.1.2 Conclusion	11
7	7 RADIO SPECTRUM MATTER TEST RESULTS	12
	7.1 CONDUCTED EMISSIONS AT AC POWER LINE (150kHz-30MHz)	12
	7.1.1 E.U.T. Operation	12
	7.1.2 Test Mode Description	
	7.1.3 Test Setup Diagram	
	7.1.4 Measurement Procedure and Data	
	7.2 CONDUCTED PEAK OUTPUT POWER	16
	7.2.1 E.U.T. Operation	
	7.2.2 Test Mode Description	
	7.2.3 Test Setup Diagram	
	7.2.4 Measurement Procedure and Data	
	7.3 MINIMUM 6DB BANDWIDTH	
	7.3.1 E.U.T. Operation	
	7.3.2 Test Mode Description	
	7.3.3 Test Setup Diagram	
	7.3.4 Measurement Procedure and Data	
	7.4 POWER SPECTRUM DENSITY	
	7.4.1 E.U.T. Operation	
	7.4.2 Test Mode Description 7.4.3 Test Setup Diagram	
	7.4.4 Measurement Procedure and Data	
	7.5 CONDUCTED BAND EDGES MEASUREMENT	
	7.5.1 E.U.T. Operation	



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200002904

Page: 5 of 74

7.5.2	Part Mode Description	20
7.5.3		21
7.5.4	Measurement Procedure and Data	21
7.6	CONDUCTED SPURIOUS EMISSIONS	22
7.6.1	E.U.T. Operation	22
7.6.2	Part Mode Description	22
7.6.3	B Test Setup Diagram	23
7.6.4		
7.7	RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS	24
<i>7.7.</i> 1	E.U.T. Operation	25
7.7.2	? Test Mode Description	25
7.7.3		
7.7.4		
7.8	RADIATED SPURIOUS EMISSIONS BELOW 1GHz	35
7.8.1	E.U.T. Operation	35
7.8.2	? Test Mode Description	35
7.8.3	B Test Setup Diagram	36
7.8.4		
7.9	RADIATED SPURIOUS EMISSIONS ABOVE 1GHz	40
7.9.1	E.U.T. Operation	40
7.9.2	? Test Mode Description	40
7.9.3	B Test Setup Diagram	40
7.9.4	Measurement Procedure and Data	41
8 TES	T SETUP PHOTO	48
9 EUT	CONSTRUCTIONAL DETAILS (EUT PHOTOS)	48
10 APP	ENDIX	49



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200002904

Page: 6 of 74

## 4 General Information

#### 4.1 Details of E.U.T.

Power supply:	Input: DC 9V-24V
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.2 LE
Data Rate:	1Mbps, 2Mbps
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Antenna Type:	Integral Antenna
Antenna Gain:	2dBi

Remark: The information in this section is provided by the applicant or manufacturer, CCS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

#### 4.2 Description of Support Units

Description	escription Manufacturer		Serial No.	
Switching Power	Shenzhen HONOR electronic co., LTD	ADS-40SI-12-3 12036E	N/A	

#### 4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 2.1 dB (9kHz to 30MHz)
Conducted Peak Output Power	± 0.8dB
Minimum 6dB Bandwidth	± 0.3%
Power Spectrum Density	± 0.4dB
Conducted Band Edges Measurement	± 2.7dB
Conducted Spurious Emissions	± 2.7dB
Radiated Emissions which fall in the restricted bands	± 4.4dB (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	± 3.1dB (Below 1GHz)
Radiated Spurious Emissions Above 1GHz	± 4.4dB (Above 1GHz)

#### Remark:

The Ulab (lab Uncertainty) is less than Ucispr/ETSI (CISPR/ETSI 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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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200002904

Page: 7 of 74

#### 4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 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. 6606.01)

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6606.01.

• FCC -Designation Number: CN1322

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

Innovation, Science and Economic Development Canada

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

#### 4.6 Deviation from Standards

None

#### 4.7 Abnormalities from Standard Conditions

None



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200002904

Page: 8 of 74

# 5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Shielding Room	CRT	N/A	SEM001-14	2021/7/13	2024/7/12	
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-01	2022/7/12	2023/7/11	
Two-Line V-Network	Rohde & Schwarz	ENV216	SEM007-16	2022/7/12	2023/7/11	
Two-Line V-Network	Rohde & Schwarz	ESH3-Z5	SEM007-22	2023/1/9	2024/1/8	
Coaxial Cable	CCS	N/A	SEM033-02	2022/5/16	2023/5/15	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	

conducted Peak Output Power					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Power Sensor	Erika Fiedler	U2021XA	SEM009-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-16	2022/7/12	2023/7/11
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2022/7/12	2023/7/11
Coaxial Cable	CCS	N/A	SEM037-01	2022/5/16	2023/5/15
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A

Minimum 6dB Bandwidt	h				
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2022/5/30	2023/5/29
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2022/7/12	2023/7/11
Coaxial Cable	CCS	N/A	SEM037-01	2022/5/16	2023/5/15
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200002904

Page: 9 of 74

Power Spectrum Densit	у				
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2022/5/30	2023/5/29
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2022/7/12	2023/7/11
Coaxial Cable	CCS	N/A	SEM037-01	2022/5/16	2023/5/15
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A

Conducted Band Edges Measurement							
Equipment Manufacturer		Model No.	Inventory No.	Cal Date	Cal Due Date		
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2022/5/30	2023/5/29		
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2022/7/12	2023/7/11		
Coaxial Cable	CCS	N/A	SEM037-01	2022/5/16	2023/5/15		
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A		

Conducted Spurious Emissions							
Equipment Manufacturer		Model No. Inventory No.		Cal Date	Cal Due Date		
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2022/5/30	2023/5/29		
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2022/7/12	2023/7/11		
Coaxial Cable	CCS	N/A	SEM037-01	2022/5/16	2023/5/15		
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A		

Radiated Emissions which fall in the restricted bands							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2024/7/12		
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25		
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-23	2022/4/24	2023/4/23		
Coaxial Cable	CCS	N/A	SEM035-02	2022/5/16	2023/5/15		
Pre-amplifier	TST PASS	LNA04080G30	SEM005-27	2022/4/15	2023/4/14		
Pre-amplifier	TST PASS	LNA10180G45	SEM005-28	2022/4/15	2023/4/14		
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A		



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200002904

Page: 10 of 74

Radiated Spurious Emissions Below 1GHz							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2024/7/12		
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24		
Loop Antenna	ETS-LINDGREN	6502	SEM003-36	2021/9/26	2024/9/25		
MXE EMI receiver	Agilent	N9038A	SEM004-05	2022/7/12	2023/7/11		
Pre-amplifier	HP	8447D	SEM005-02	2022/7/12	2023/7/11		
Coaxial Cable	CCS	N/A	SEM035-01	2022/5/16	2023/5/15		
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A		

Radiated Spurious Emissions Above 1GHz							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2024/7/12		
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25		
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-23	2022/4/24	2023/4/23		
Coaxial Cable	CCS	N/A	SEM035-02	2022/5/16	2023/5/15		
Pre-amplifier	TST PASS	LNA04080G30	SEM005-27	2022/4/15	2023/4/14		
Pre-amplifier	TST PASS	LNA10180G45	SEM005-28	2022/4/15	2023/4/14		
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A		

General used equipment							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-22	2022/7/12	2023/7/11		
Humidity/ Temperature Indicator	, i i iviindie		SEM002-23	2022/7/12	2023/7/11		
Barometer	DUMAI	DYM3	SEM002-24	2022/7/12	2023/7/11		



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200002904

Page: 11 of 74

# 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 2 dBi.

Antenna location: Refer to internal photo.



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Report No.: FYCR230200002904

Page: 12 of 74

# 7 Radio Spectrum Matter Test Results

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

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

Limit:

Execution by of emission (MILE)	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 resolution bandwidth) 0.15M to 30MHz					

#### 7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C Humidity: 51.4 % RH Atmospheric Pressure: 1020 mbar

#### 7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.



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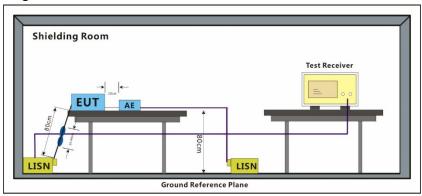


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200002904

Page: 13 of 74

#### 7.1.3 Test Setup Diagram



#### 7.1.4 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  $50 \text{ohm}/50 \mu\text{H} + 5 \text{ohm}$  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: Level=Read Level+ Cable Loss+ LISN Factor



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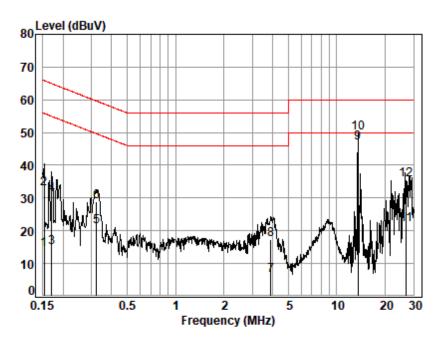


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200002904

Page: 14 of 74

Test Mode: 00; Line: Live line



Site : Shielding Room

Condition: Line Job No. : 00029AT

Test mode: 00

	mouc. oo							
		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1524	0.02	0.13	14.10	14.25	55.87	-41.62	Average
2	0.1524	0.02	0.13	32.56	32.71	65.87	-33.16	QP
3	0.1703	0.02	0.13	14.85	15.00	54.94	-39.94	Average
4	0.1703	0.02	0.13	30.75	30.90	64.94	-34.04	QP
5	0.3217	0.03	0.11	21.24	21.38	49.66	-28.28	Average
6	0.3217	0.03	0.11	28.90	29.04	59.66	-30.62	QP
7	3.9014	0.03	0.25	6.04	6.32	46.00	-39.68	Average
8	3.9014	0.03	0.25	17.09	17.37	56.00	-38.63	QP
9	13.5600	0.05	0.54	46.19	46.78	50.00	-3.22	Average
10	13.5600	0.05	0.54	49.37	49.96	60.00	-10.04	QP
11	27.1200	0.08	1.33	20.36	21.77	50.00	-28.23	Average
12	27.1200	0.08	1.33	34.25	35.66	60.00	-24.34	QP



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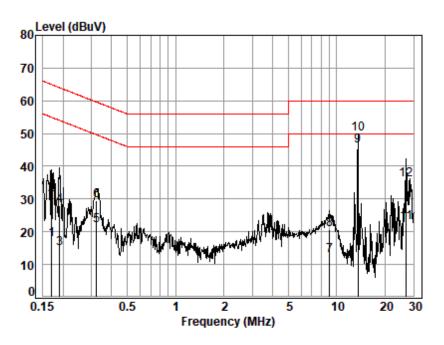


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200002904

Page: 15 of 74

Test Mode: 00; Line: Neutral Line



Site : Shielding Room

Condition: Neutral Job No. : 00029AT

Test mode: 00

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1694	0.02	0.12	17.40	17.54			Average
2	0.1694	0.02	0.12	31.30	31.44	64.99	-33.55	QP
3	0.1904	0.02	0.12	14.68	14.82	54.02	-39.20	Average
4	0.1904	0.02	0.12	27.93	28.07	64.02	-35.95	QP
5	0.3217	0.03	0.13	21.63	21.79	49.66	-27.87	Average
6	0.3217	0.03	0.13	29.27	29.43	59.66	-30.23	QP
7	9.0592	0.04	0.31	12.39	12.74	50.00	-37.26	Average
8	9.0592	0.04	0.31	20.33	20.68	60.00	-39.32	QP
9	13.5600	0.05	0.40	45.94	46.39	50.00	-3.61	Average
10	13.5600	0.05	0.40	49.43	49.88	60.00	-10.12	QP
11	27.1200	0.08	1.18	21.48	22.74	50.00	-27.26	Average
12	27.1200	0.08	1.18	34.67	35.93	60.00	-24.07	QP



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200002904

Page: 16 of 74

#### 7.2 Conducted Peak Output Power

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

#### Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
	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

#### 7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 24.9 °C Humidity: 42.8 % RH Atmospheric Pressure: 1020 mbar

#### 7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with
		GFSK modulation.
Final toot	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with
Final test	UI	GFSK modulation.



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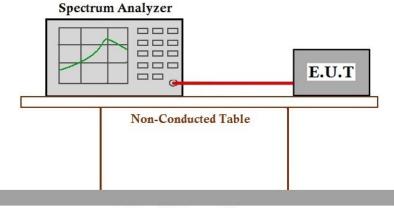


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200002904

Page: 17 of 74

#### 7.2.3 Test Setup Diagram



**Ground Reference Plane** 

#### 7.2.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

Please Refer to Appendix for Details



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Report No.: FYCR230200002904

Page: 18 of 74

#### 7.3 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

#### 7.3.1 E.U.T. Operation

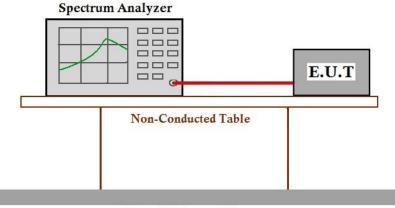
Operating Environment:

Temperature: 24.9 °C Humidity: 42.8 % RH Atmospheric Pressure: 1020 mbar

#### 7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	01	TX mode(2Mbps)_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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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200002904

Page: 19 of 74

#### 7.4 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

#### 7.4.1 E.U.T. Operation

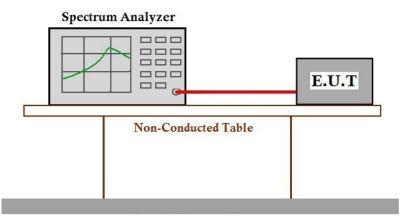
Operating Environment:

Temperature: 24.9 °C Humidity: 42.8 % RH Atmospheric Pressure: 1020 mbar

#### 7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test 00		TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	01	TX mode(2Mbps)_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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Report No.: FYCR230200002904

Page: 20 of 74

#### 7.5 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).

#### 7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 24.9 °C Humidity: 42.8 % RH Atmospheric Pressure: 1020 mbar

#### 7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description					
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.					
Final test	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.					



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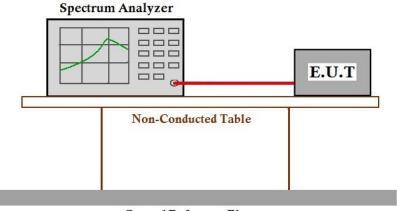


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200002904

Page: 21 of 74

#### 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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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200002904

Page: 22 of 74

#### 7.6 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).

#### 7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 24.9 °C Humidity: 42.8 % RH Atmospheric Pressure: 1020 mbar

#### 7.6.2 Test Mode Description

11012 1001 11040 2000 151011							
Pre-scan / Final test	Mode Code	Description					
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.					
Final test	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.					



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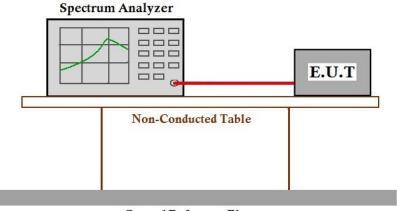


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200002904

Page: 23 of 74

#### 7.6.3 Test Setup Diagram



**Ground Reference Plane** 

#### 7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200002904

Page: 24 of 74

#### 7.7 Radiated Emissions which fall in the restricted bands

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

Test Method: ANSI C63.10 (2013) Section 6.10.5

Measurement Distance: 3m

Limit:

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

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



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Report No.: FYCR230200002904

Page: 25 of 74

#### 7.7.1 E.U.T. Operation

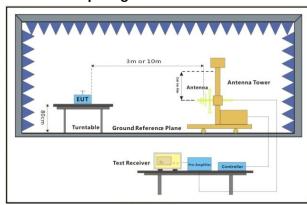
Operating Environment:

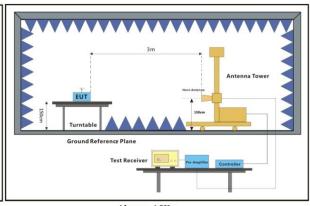
Temperature: 22.2 °C Humidity: 51.3 % RH Atmospheric Pressure: 1020 mbar

#### 7.7.2 Test Mode Description

777.2 Test made besomption								
Pre-scan / Final test	Mode Code	Description						
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.						
Final test	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.						

#### 7.7.3 Test Setup Diagram





30MHz-1GHz Above 1GHz



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200002904

Page: 26 of 74

#### 7.7.4 Measurement Procedure and Data

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

Remark 1: 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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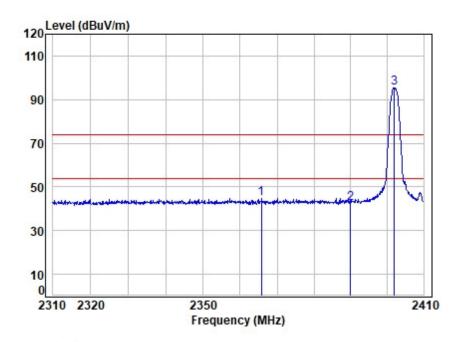


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200002904

Page: 27 of 74

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00029AT

Mode : 2402 Band edge

Note : BLE

					Preamp					
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	-
1		2365.778	5.04	27.10	32.50	45.26	44.90	74.00	-29.10	peak
2		2390.000	5.05	27.16	32.50	42.93	42.64	74.00	-31.36	peak
3		2402.000	5.06	27.18	32.50	95.42	95.16	74.00	21.16	peak



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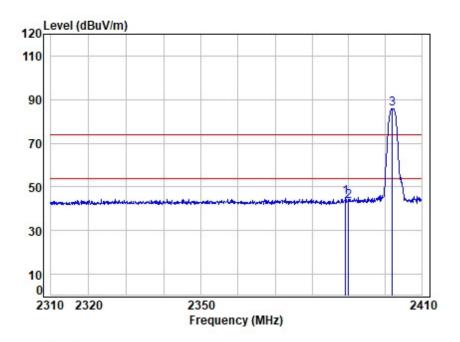


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200002904

Page: 28 of 74

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



Site : chamber

Condition: 3m VERTICAL

Job No : 00029AT

Mode : 2402 Band edge

Note : BLE

1 2

Freq			Preamp Factor					
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2389.153	5.05	27.16	32.50	45.57	45.28	74.00	-28.72	peak
2390.000	5.05	27.16	32.50	43.63	43.34	74.00	-30.66	peak
2/02 000	5 06	27 18	32 50	86 24	85 98	7/ 00	11 98	noak



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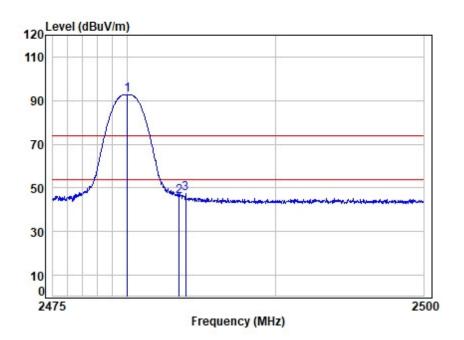


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200002904

Page: 29 of 74

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00029AT

Mode : 2480 Band edge

Note : BLE

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq			Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1.	2480.000	5.12	27.36	32.50	92.57	92.55	74.00	18.55	peak
2	2483.500	5.12	27.36	32.50	46.11	46.09	74.00	-27.91	peak
3	2483.921	5.12	27.37	32.50	47.29	47.28	74.00	-26.72	peak



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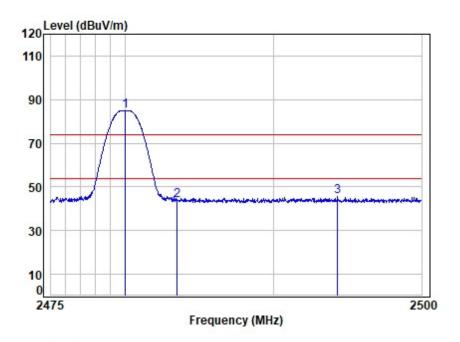


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200002904

Page: 30 of 74

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



Site : chamber

Condition: 3m VERTICAL : 00029AT

Mode : 2480 Band edge

Note : BLE

Job No

		7.0							
	Freq			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	-
1.	2480.000	5.12	27.36	32.50	84.94	84.92	74.00	10.92	peak
2	2483.500	5.12	27.36	32.50	43.62	43.60	74.00	-30.40	peak
3	2494 328	5.13	27.39	32.50	45.75	45 77	74 99	-28 23	neak



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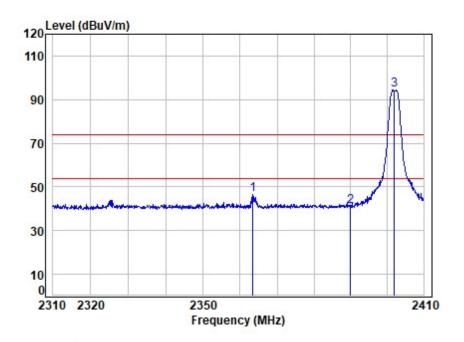


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200002904

Page: 31 of 74

Test Mode: 01; Polarity: Horizontal; Modulation: GFSK; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00029AT

Mode : 2402 Band edge

Note : BLE

1 2

	Freq			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2363.473	5.03	27.10	32.50	46.91	46.54	74.00	-27.46	peak
2	2390.000	5.05	27.16	32.50	41.43	41.14	74.00	-32.86	peak
3	2402.000	5.06	27.18	32.50	94.53	94.27	74.00	20.27	peak



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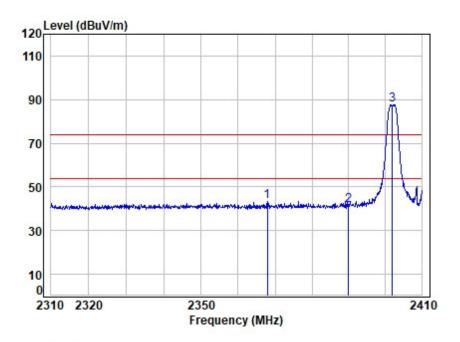


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200002904

Page: 32 of 74

Test Mode: 01; Polarity: Vertical; Modulation: GFSK; Channel: Low



: chamber Site

Condition: 3m VERTICAL : 00029AT

Mode : 2402 Band edge

Note : BLE

Job No

1 2

_		_								
	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
	2367.885	5.04	27.11	32.50	43.71	43.36	74.00	-30.64	peak	
	2390.000	5.05	27.16	32.50	41.71	41.42	74.00	-32.58	peak	
	2402.000	5.06	27.18	32.50	87.82	87.56	74.00	13.56	neak	



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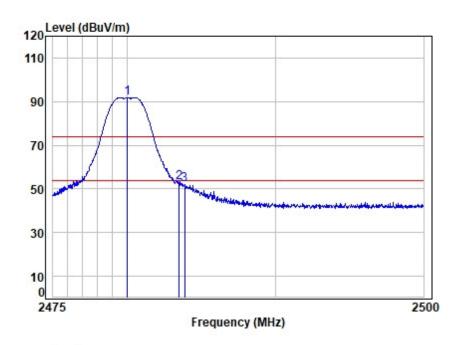


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200002904

Page: 33 of 74

Test Mode: 01; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00029AT

Mode : 2480 Band edge

Note : BLE

					Preamp					
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	ι.	2480.000	5.12	27.36	32.50	91.94	91.92	74.00	17.92	peak
1	2	2483.500	5.12	27.36	32.50	52.72	52.70	74.00	-21.30	peak
:	3	2483.871	5.12	27.37	32.50	51.98	51.97	74.00	-22.03	peak



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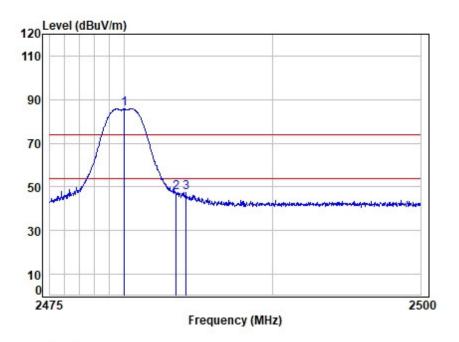


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200002904

Page: 34 of 74

Test Mode: 01; Polarity: Vertical; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m VERTICAL

Job No : 00029AT Mode : 2480 Band edge

Note : BLE

	Freq			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1.	2480.000	5.12	27.36	32.50	85.79	85.77	74.00	11.77	peak
2	2483.500	5.12	27.36	32.50	47.63	47.61	74.00	-26.39	peak
3	2484 171	5 12	27 37	32 50	47 43	47 42	74 99	-26 58	neak



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200002904

Page: 35 of 74

#### 7.8 Radiated Spurious Emissions Below 1GHz

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

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

#### 7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Humidity: 52.9 % RH Atmospheric Pressure: 1020 mbar

#### 7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.



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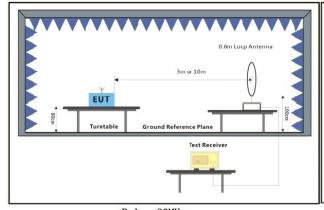


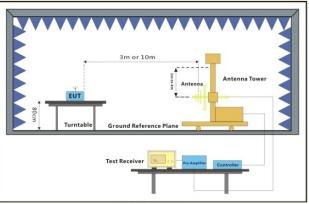
SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200002904

Page: 36 of 74

#### 7.8.3 Test Setup Diagram





Below 30MHz 30MHz-1GHz



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200002904

Page: 37 of 74

#### 7.8.4 Measurement Procedure and Data

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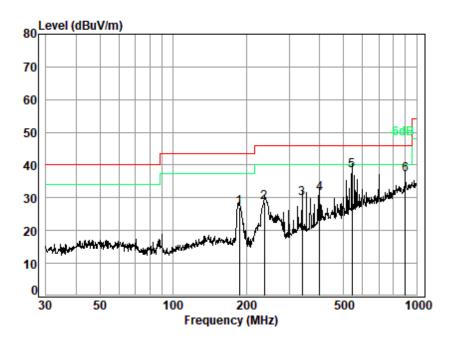


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200002904

Page: 38 of 74

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00029AT

Mode : 00

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	187.096	0.68	15.70	25.49	36.23	27.12	43.50	-16.38	QP
2	237.476	0.81	16.30	25.44	37.04	28.71	46.00	-17.29	QP
3	339.589	1.42	19.79	25.42	34.16	29.95	46.00	-16.05	QP
4	400.432	1.68	20.70	25.46	34.27	31.19	46.00	-14.81	QP
5	543.274	1.80	23.74	25.27	38.08	38.35	46.00	-7.65	QP
6	896 997	2 39	28 26	24 10	30 42	36 97	46 99	-9 03	OP



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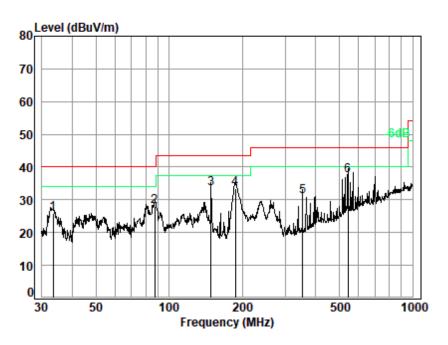


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200002904

Page: 39 of 74

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



Site : chamber Condition: 3m VERTICAL Job No : 00029AT

Mode : 00

		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	33.445	0.19	15.30	26.02	36.29	25.76	40.00	-14.24	QP
2	87.418	0.63	13.60	25.72	39.39	27.90	40.00	-12.10	QP
3	148.963	0.91	17.43	25.53	40.61	33.42	43.50	-10.08	QP
4	187.096	0.68	15.70	25.49	42.66	33.55	43.50	-9.95	QP
5	352.943	1.53	19.75	25.43	35.28	31.13	46.00	-14.87	QP
6	543.274	1.80	23.74	25.27	37.16	37.43	46.00	-8.57	OP



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Report No.: FYCR230200002904

Page: 40 of 74

### 7.9 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

#### 7.9.1 E.U.T. Operation

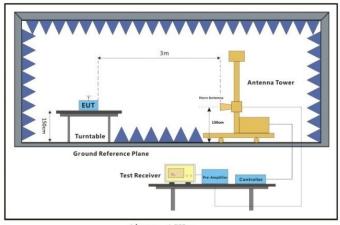
Operating Environment:

Temperature: 23.0 °C Humidity: 52.6 % RH Atmospheric Pressure: 1020 mbar

### 7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

#### 7.9.3 Test Setup Diagram



Above 1GHz



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200002904

Page: 41 of 74

#### 7.9.4 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. Remark:
- 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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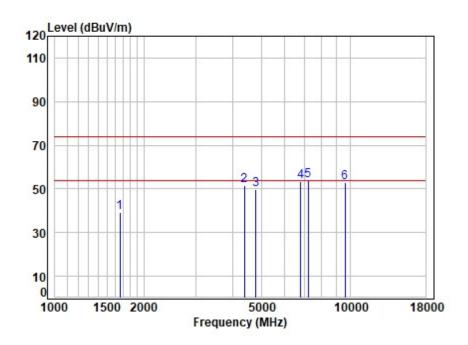


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200002904

Page: 42 of 74

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00029AT Mode : 2402 TX RSE

: BLE

		_							
	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	_
1	1663.137	4.12	24.93	52.94	63.33	39.44	74.00	-34.56	peak
2	4379.699	7.47	30.04	52.92	67.00	51.59	74.00	-22.41	peak
3	4804.000	7.98	30.94	53.05	63.87	49.74	74.00	-24.26	peak
4	6795.879	7.99	35.32	53.37	63.29	53.23	74.00	-20.77	peak
5	7206.000	8.29	36.05	53.52	63.16	53.98	74.00	-20.02	peak
6	9608.000	11.41	37.53	53.58	57.76	53.12	74.00	-20.88	peak



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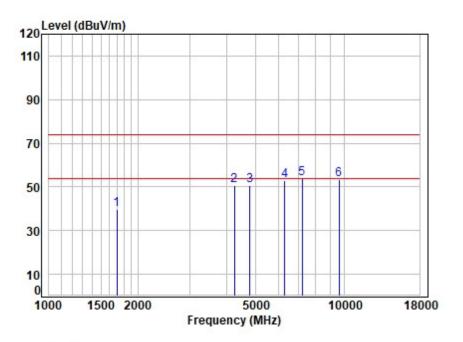


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200002904

Page: 43 of 74

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



Site : chamber

Condition: 3m VERTICAL

Job No : 00029AT Mode : 2402 TX RSE

: BLE

		_							
	Freq			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1702.042	4.20	25.01	52.96	63.28	39.53	74.00	-34.47	peak
2	4242.641	7.48	29.85	52.88	66.23	50.68	74.00	-23.32	peak
3	4804.000	7.98	30.94	53.05	64.77	50.64	74.00	-23.36	peak
4	6285.695	7.67	33.68	53.01	64.55	52.89	74.00	-21.11	peak
5	7206.000	8.29	36.05	53.52	62.81	53.63	74.00	-20.37	peak
6	9608 000	11 41	37 53	53 58	57 96	53 32	74 99	-20 68	neak



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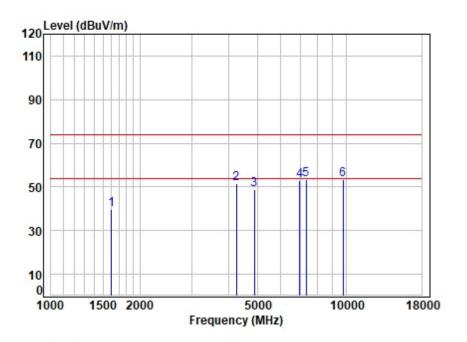


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200002904

Page: 44 of 74

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00029AT

Mode : 2440 TX RSE

: BLE

		_							
	Freq			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1601.804	3.99	24.80	52.91	63.62	39.50	74.00	-34.50	peak
2	4242.641	7.48	29.85	52.88	66.91	51.36	74.00	-22.64	peak
3	4880.000	8.11	31.12	53.07	62.52	48.68	74.00	-25.32	peak
4	6954.852	8.15	35.70	53.47	62.37	52.75	74.00	-21.25	peak
5	7320.000	8.35	36.19	53.53	62.58	53.59	74.00	-20.41	peak
6	9760 000	11 30	37 87	53 43	57 59	53 33	74 99	-20 67	neak



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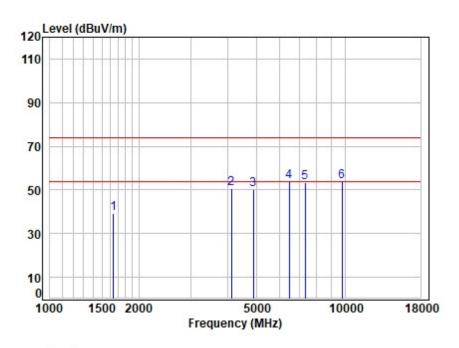


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200002904

Page: 45 of 74

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



Site : chamber

Condition: 3m VERTICAL

Job No : 00029AT Mode : 2440 TX RSE

: BLE

		_							
	Freq			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1644.019	4.08	24.89	52.93	63.41	39.45	74.00	-34.55	peak
2	4121.768	7.48	29.68	52.84	66.49	50.81	74.00	-23.19	peak
3	4880.000	8.11	31.12	53.07	64.17	50.33	74.00	-23.67	peak
4	6470.026	7.70	34.47	53.14	64.69	53.72	74.00	-20.28	peak
5	7320.000	8.35	36.19	53.53	62.25	53.26	74.00	-20.74	peak
6	9760 000	11 30	37 87	53 43	58 11	53 85	74 99	-20 15	neak



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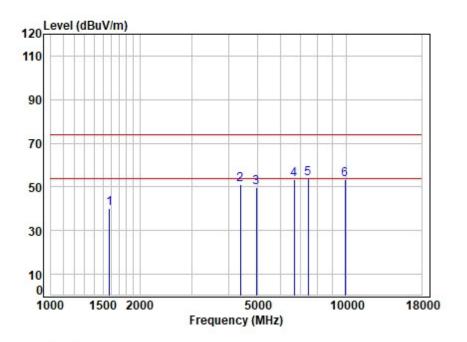


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200002904

Page: 46 of 74

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00029AT Mode

: 2480 TX RSE

: BLE

		_							
	Frea			Preamp Factor					Remark
		2033	, accor	1 42 201				Limit	remark.
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1578.822	3.94	24.74	52.90	64.15	39.93	74.00	-34.07	peak
2	4392.376	7.47	30.06	52.93	66.43	51.03	74.00	-22.97	peak
3	4960.000	8.24	31.31	53.09	63.16	49.62	74.00	-24.38	peak
4	6659.763	7.86	34.99	53.27	64.01	53.59	74.00	-20.41	peak
5	7440.000	8.40	36.33	53.55	62.71	53.89	74.00	-20.11	peak
6	9920.000	11.18	38.22	53.28	57.20	53.32	74.00	-20.68	peak



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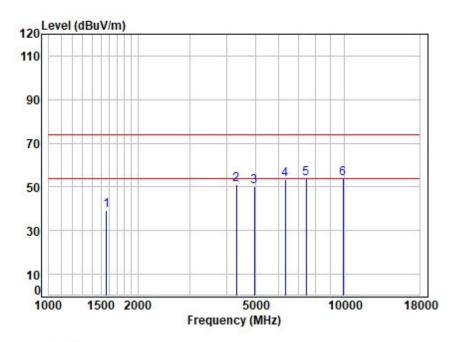


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200002904

Page: 47 of 74

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



Site : chamber

Condition: 3m VERTICAL Job No : 00029AT

Mode : 2480 TX RSE

: BLE

		_							
	Freq			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1569.721	3.92	24.71	52.89	63.55	39.29	74.00	-34.71	peak
2	4316.859	7.48	29.95	52.90	66.64	51.17	74.00	-22.83	peak
3	4960.000	8.24	31.31	53.09	63.80	50.26	74.00	-23.74	peak
4	6322.136	7.68	33.84	53.04	65.02	53.50	74.00	-20.50	peak
5	7440.000	8.40	36.33	53.55	62.61	53.79	74.00	-20.21	peak
6	9920 000	11 18	38 22	53 28	57 85	53 97	74 99	-20 03	neak



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200002904

Page: 48 of 74

# 8 Test Setup Photo

Refer to Appendix - Test Setup Photo for FYCR2302000029AT

# 9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Test Setup Photo for FYCR2302000029AT



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200002904

Page: 49 of 74

# 10 Appendix

1. Duty Cycle

1.1 Ant1

#### 1.1.1 Test Result

					Ant1		
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
		2402	0.395	0.625	63.20	1.99	0.11
1M	SISO	2440	0.394	0.625	63.04	2.00	0.09
		2480	0.395	0.626	63.10	2.00	0.10
		2402	0.210	0.625	33.60	4.74	0.05
2M	SISO	2440	0.210	0.625	33.60	4.74	0.04
		2480	0.210	0.625	33.60	4.74	0.05



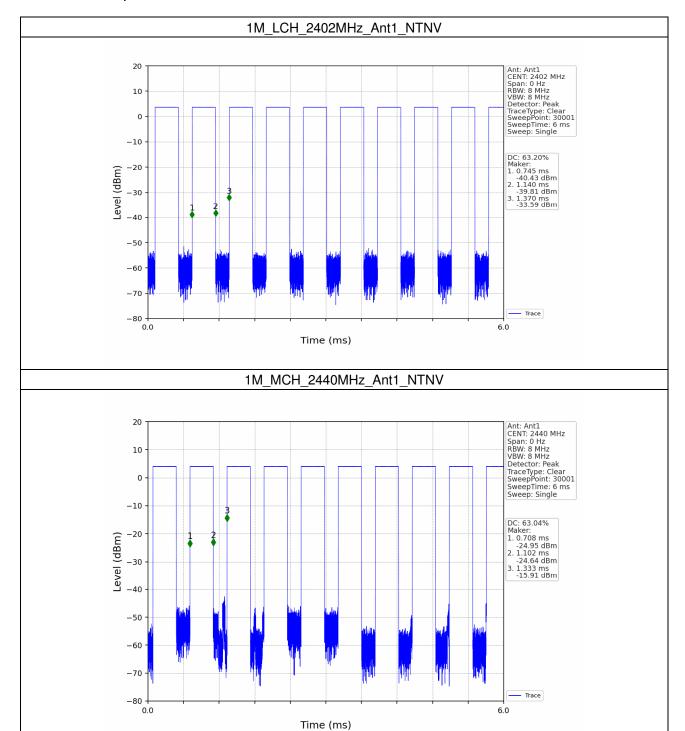


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Page: 50 of 74

### 1.1.2 Test Graph





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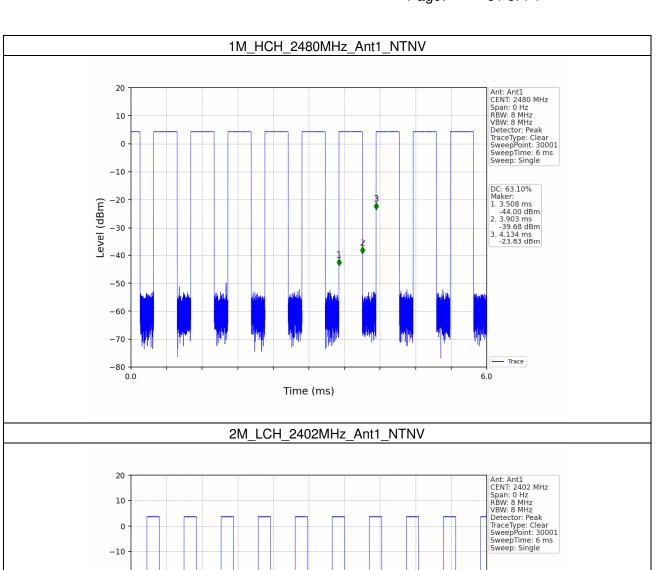
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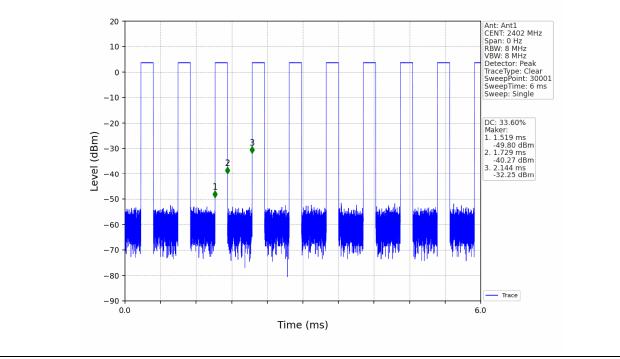


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Page: 51 of 74







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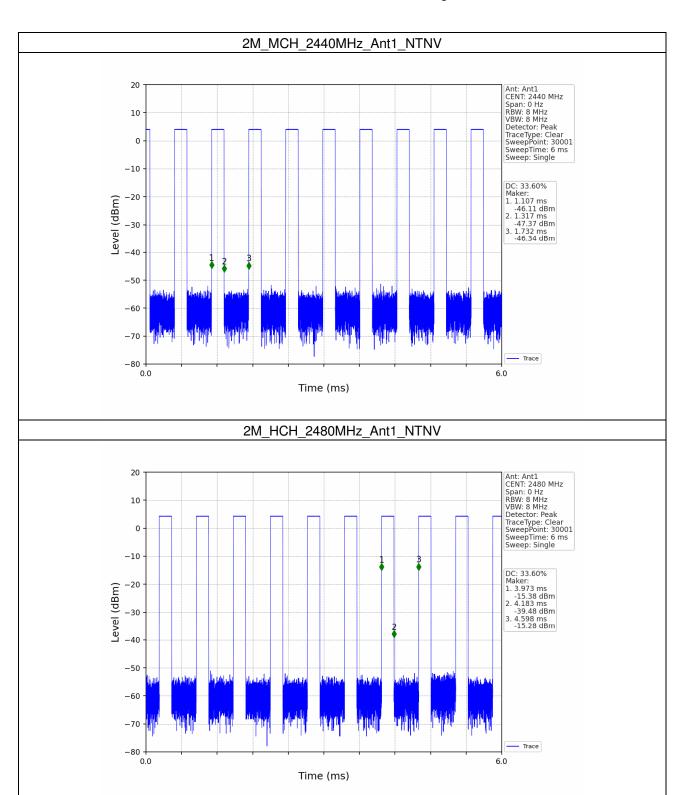
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Page: 52 of 74





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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200002904

Page: 53 of 74

### 2. Bandwidth

2.1 OBW

#### 2.1.1 Test Result

Mada	TX	Frequency	ANT	99% Occupied Bandwidth (MHz)	\/oveliet
Mode	Type	(MHz)	AINT	Result	Verdict
		2402	1	1.020	Pass
1M	SISO	2440	1	1.021	Pass
		2480	1	1.021	Pass
		2402	1	2.042	Pass
2M	SISO	2440	1	2.043	Pass
		2480	1	2.041	Pass



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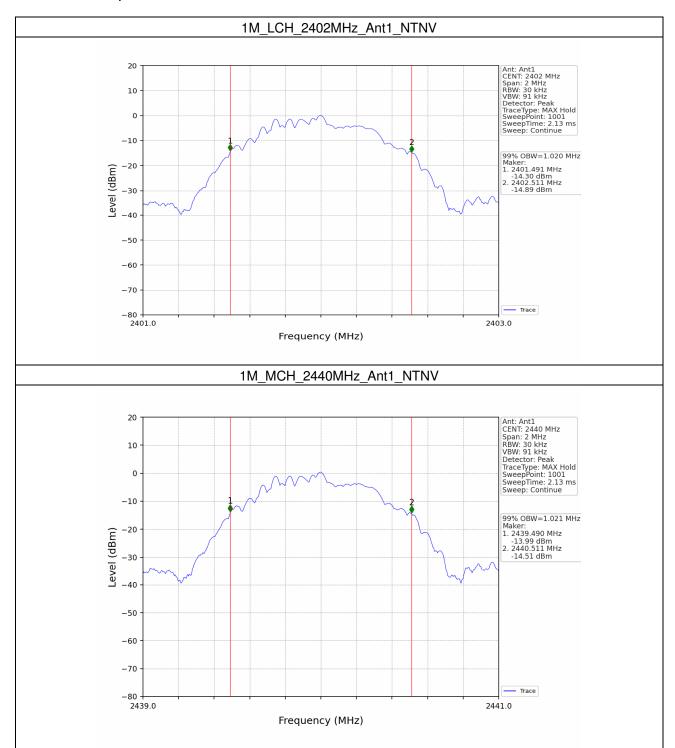


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Report No.: FYCR230200002904

Page: 54 of 74

### 2.1.2 Test Graph





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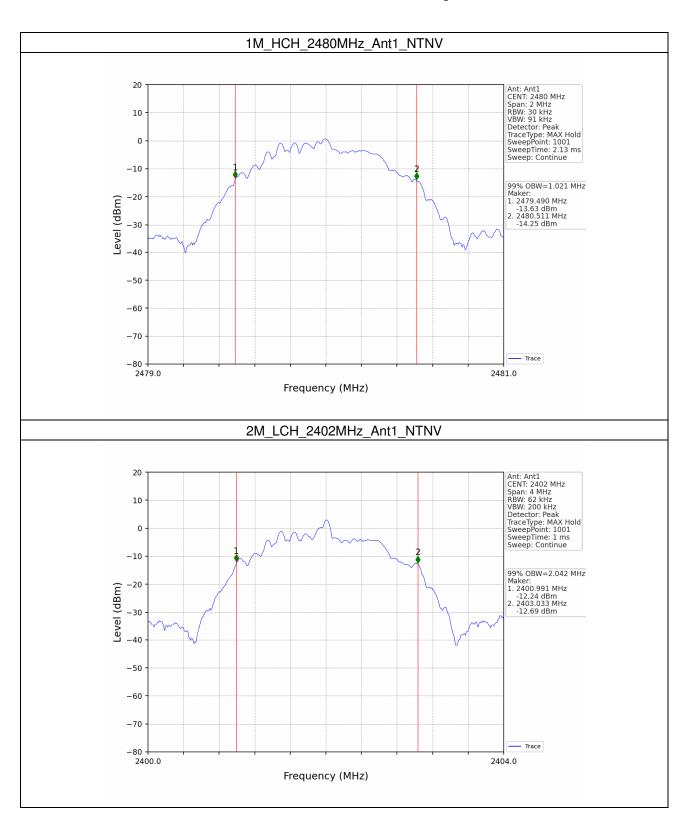
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Report No.: FYCR230200002904

Page: 55 of 74





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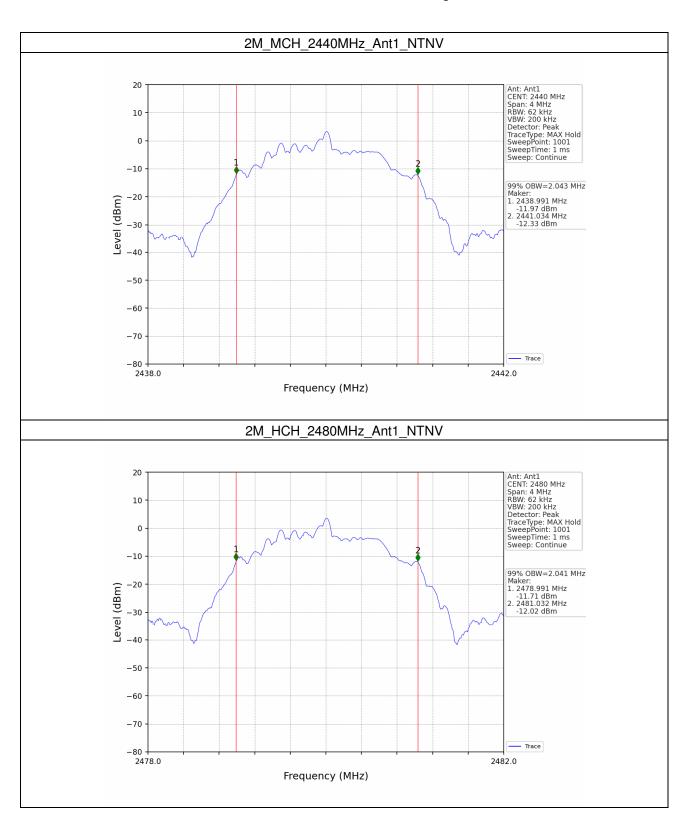
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Report No.: FYCR230200002904

Page: 56 of 74





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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200002904

Page: 57 of 74

#### 2.2 6dB BW

#### 2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		\/audiat
				Result	Limit	Verdict
1M	SISO	2402	1	0.649	>=0.5	Pass
		2440	1	0.649	>=0.5	Pass
		2480	1	0.649	>=0.5	Pass
2M		2402	1	1.155	>=0.5	Pass
	SISO	2440	1	1.156	>=0.5	Pass
		2480	1	1.158	>=0.5	Pass



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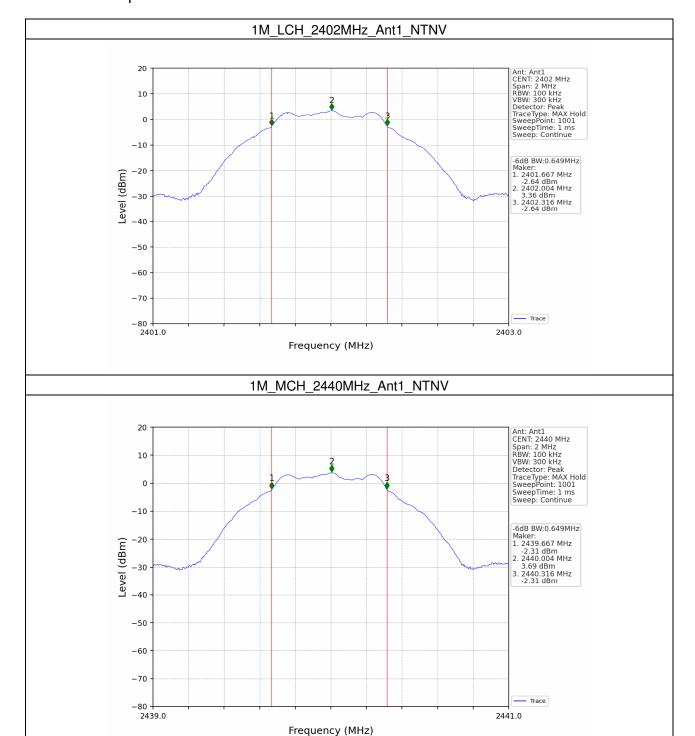


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200002904

Page: 58 of 74

### 2.2.2 Test Graph





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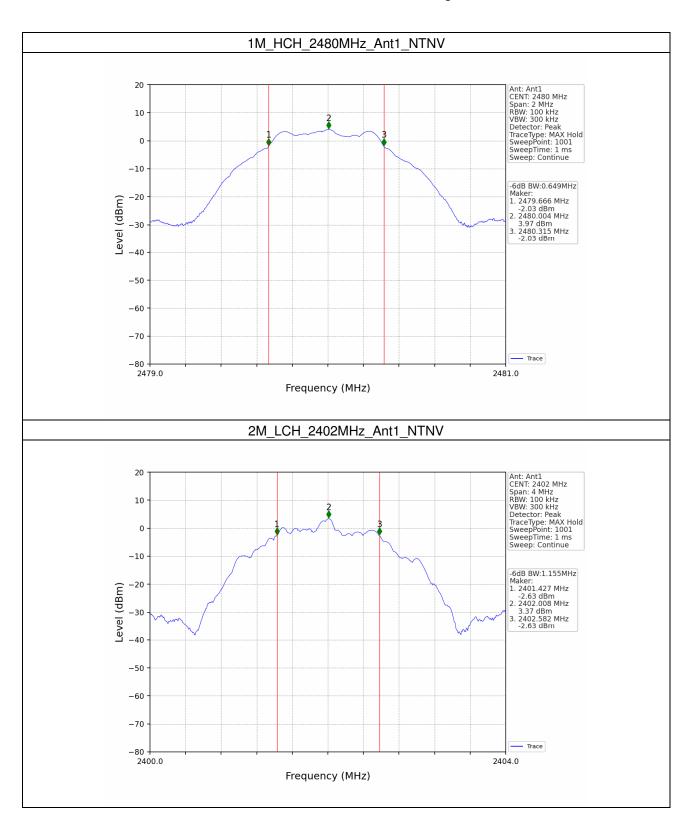
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Report No.: FYCR230200002904

Page: 59 of 74





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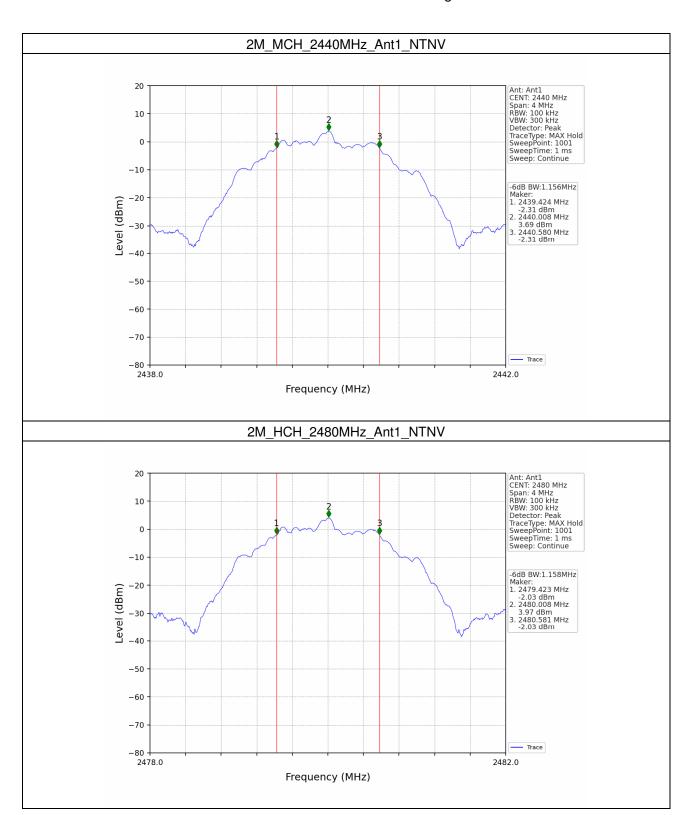
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200002904

Page: 60 of 74





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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200002904

Page: 61 of 74

# 3. Maximum Conducted Output Power

#### 3.1 Power

#### 3.1.1 Test Result

Mode	TX	Frequency (MHz)	Maximum Peak Conduc	\/oudist	
	Type		ANT1	Limit	veralct
1M	SISO	2402	3.65	<=30	Pass
		2440	3.98	<=30	Pass
		2480	4.25	<=30	Pass
2M		2402	3.68	<=30	Pass
	SISO	2440	4.01	<=30	Pass Pass
		2480	4.29	<=30	

### 4. Maximum Power Spectral Density

#### 4.1 PSD

#### 4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PS	Verdict	
			ANT1	Limit	verdict
1M	SISO	2402	-11.03	<=8	Pass
		2440	-10.71	<=8	Pass
		2480	-10.42	<=8	Pass
2M		2402	-14.42	<=8	Pass
	SISO	2440	-14.09	<=8	Pass
		2480	-13.78	<=8	Pass



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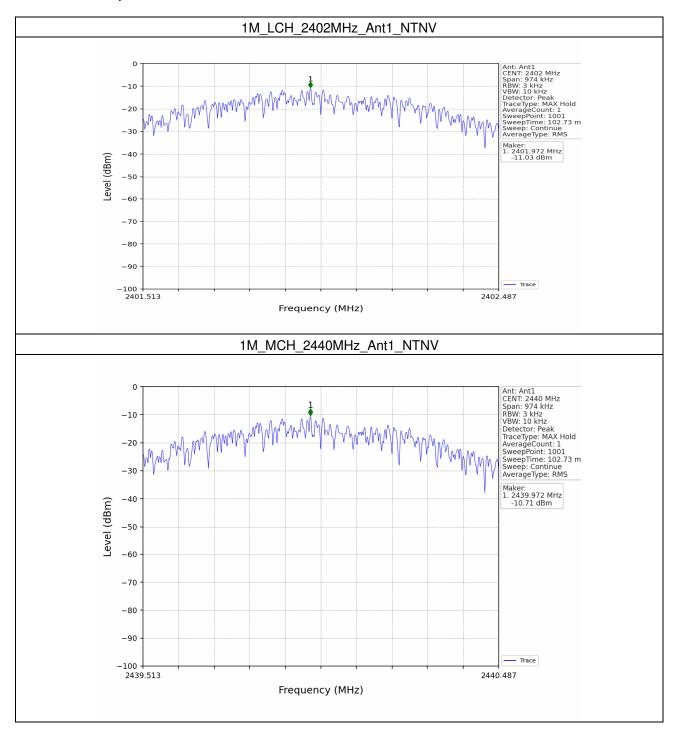


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Report No.: FYCR230200002904

Page: 62 of 74

### 4.1.2 Test Graph





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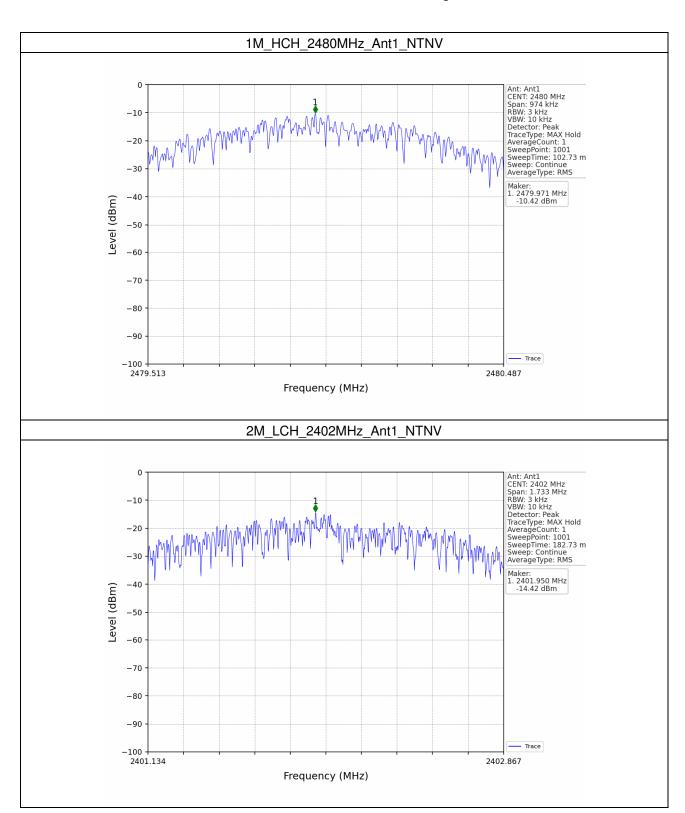
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Report No.: FYCR230200002904

Page: 63 of 74





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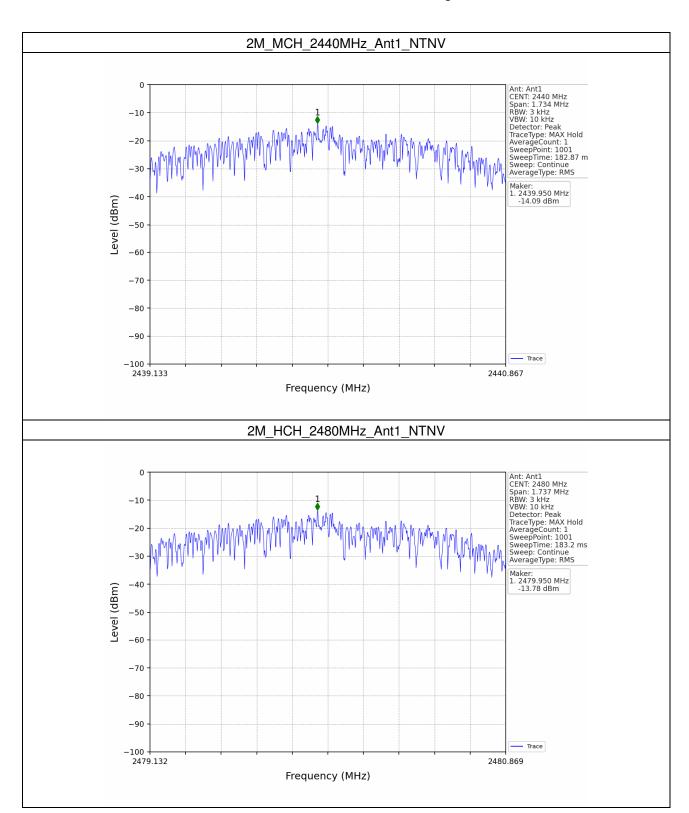
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Report No.: FYCR230200002904

Page: 64 of 74





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Report No.: FYCR230200002904

Page: 65 of 74

# 5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

#### 5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M		2402	1	3.33
	SISO	2440	1	3.66
		2480	1	3.94
2M	SISO	2402	1	3.29
		2440	1	3.61
		2480	1	3.90



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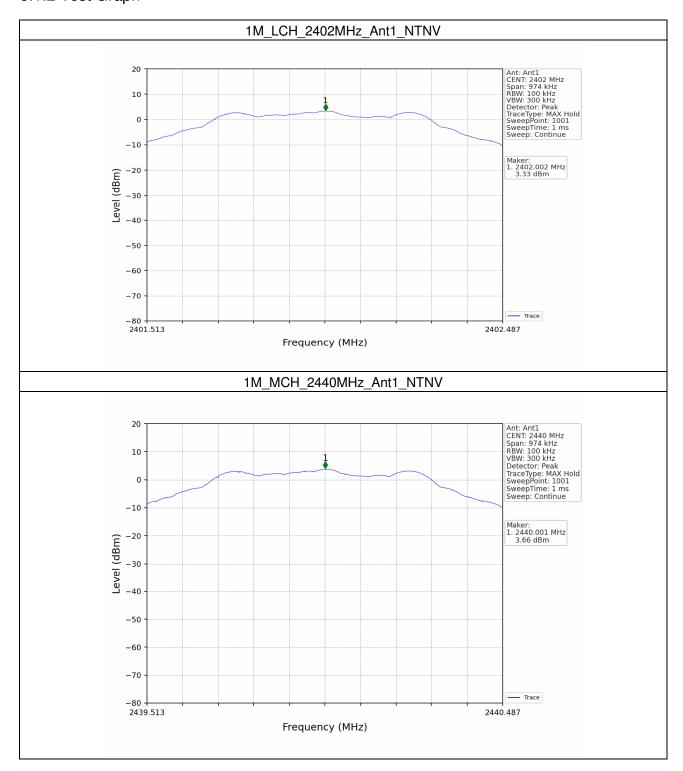


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Page: 66 of 74

### 5.1.2 Test Graph





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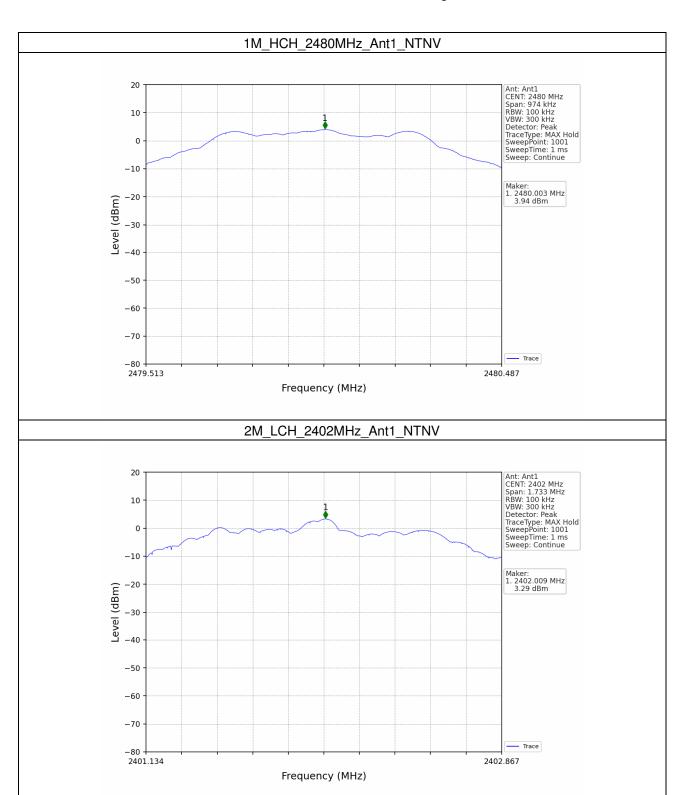
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Page: 67 of 74





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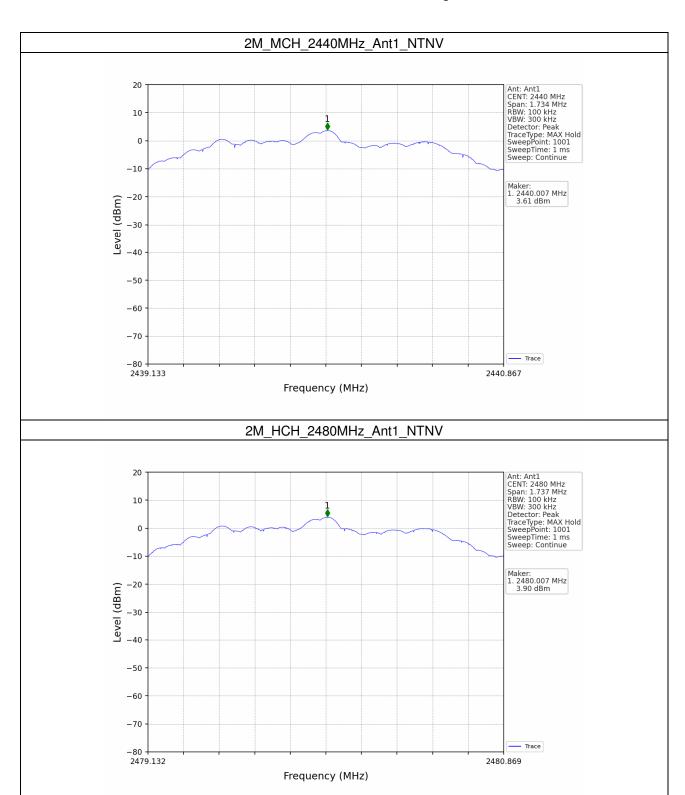
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Page: 68 of 74





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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200002904

Page: 69 of 74

#### 5.2 CSE

#### 5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	3.94	-16.06	Pass
		2440	1	3.94	-16.06	Pass
		2480	1	3.94	-16.06	Pass
2M	SISO	2402	1	3.90	-16.10	Pass
		2440	1	3.90	-16.10	Pass
		2480	1	3.90	-16.10	Pass



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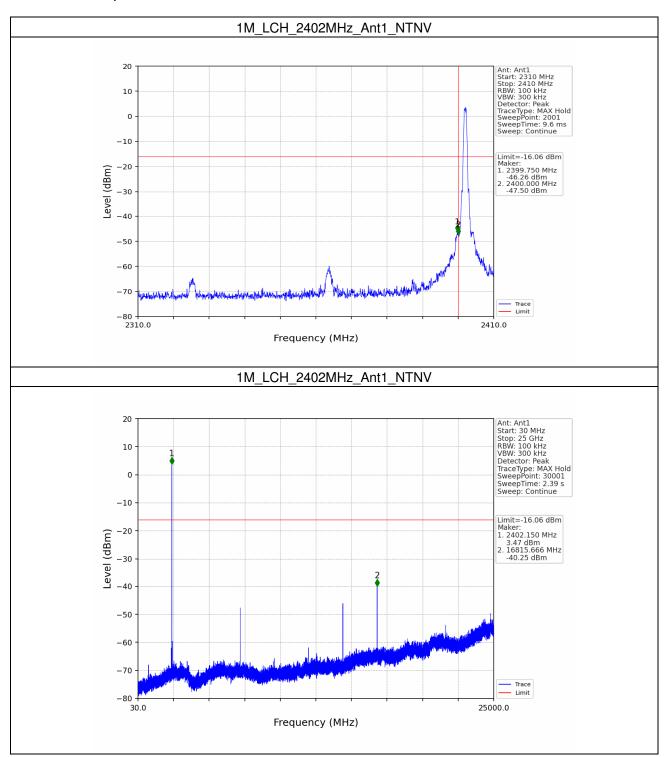


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Page: 70 of 74

### 5.2.2 Test Graph





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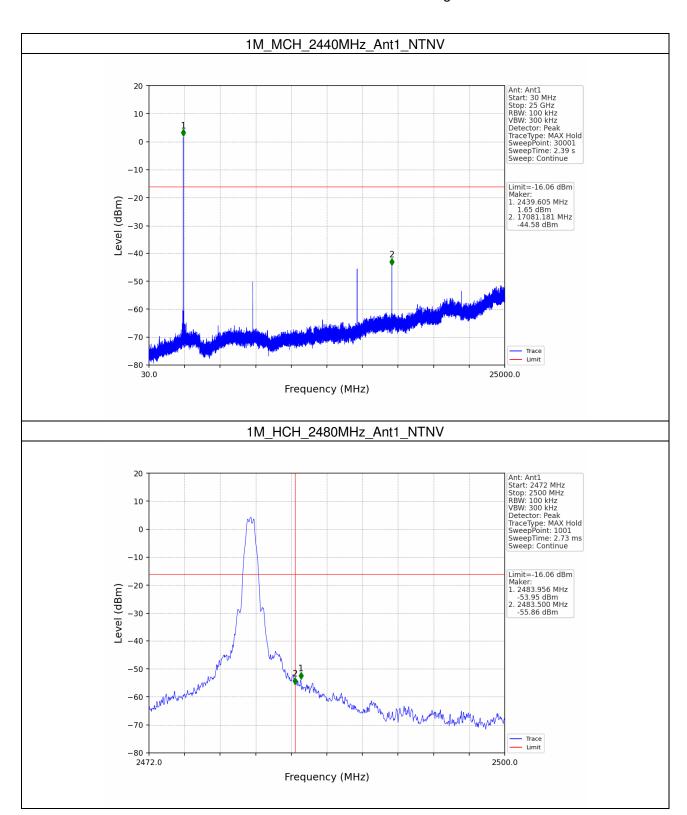
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Page: 71 of 74





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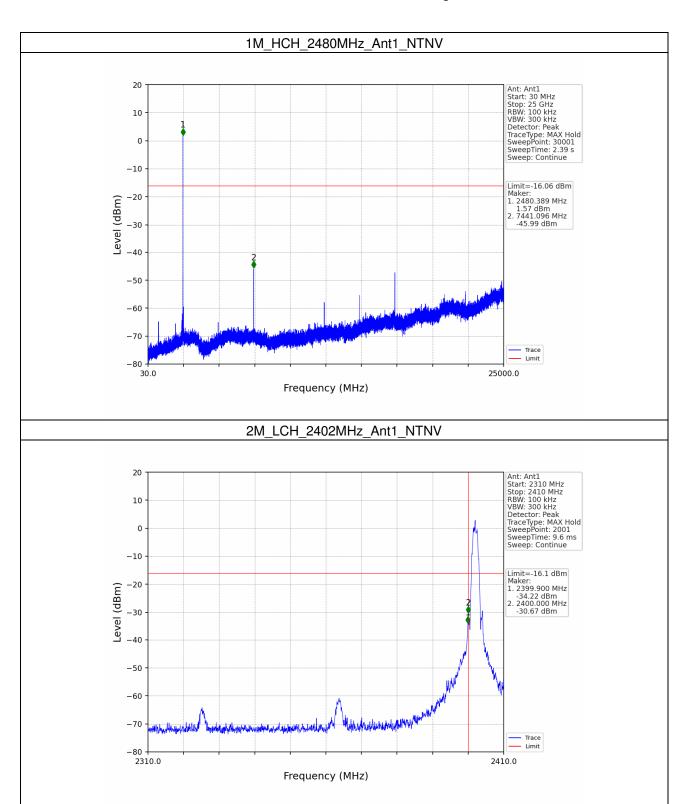
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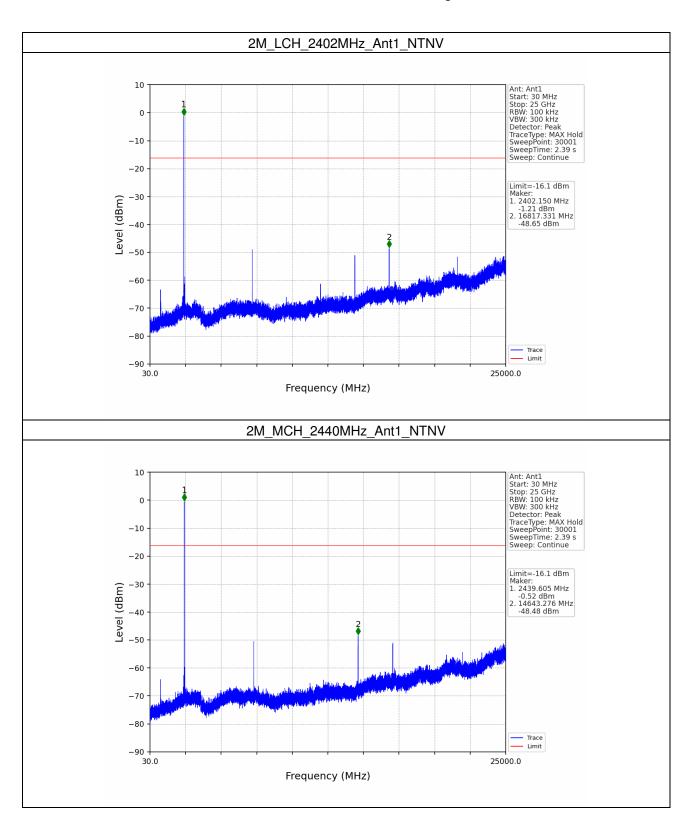
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Page: 73 of 74





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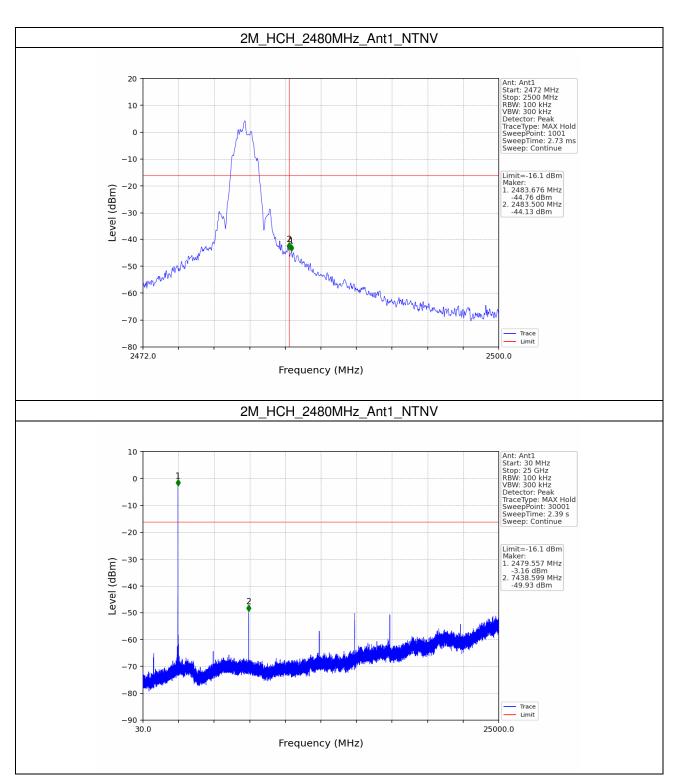
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Page: 74 of 74



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