

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

Report No.: FYCR230700007802

Page: 1 of 41

TEST REPORT

Application No.: FYCR2307000078ET (SGS SZ NO.: T52310290185EM)

Applicant: FLYBAR, INC.

Address of Applicant: 220 Centennial Ave Piscataway New Jersey 08854, United States

Factory: SHANTOU JINYISHUO TOYS CO., LTD.

Address of Factory: 4F-1, Longxiang toys industry, Cheng Hua Industrial Zone, Chenghai,

Shantou, Guangdong, China

Equipment Under Test (EUT):

EUT Name: HOONIGAN AUDI HOONITRON 1:32 SCALE RADIO CONTROL VEHICLE

 Item No.:
 H225479AH32

 P.O. No.:
 0087-6015010-0581

Brand: HOONIGAN
Country of Origin: CHINA

Country of Destination: UNITED STATES

Labeled Age Grading: 6+

FCC ID: 2AXWW-FB02AD32

Standard(s): 47 CFR Part 15, Subpart C 15.249

Date of Receipt: 2023-07-03

Date of Test: 2023-07-05 to 2023-07-08

Date of Issue: 2023-07-11

Test Result: Pass*

Winkey Wang
Winkey Wang
EMC Technical Manager



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



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

Report No.: FYCR230700007802

Page: 2 of 41

	Revision Record						
Version	Chapter	Date	Modifier	Remark			
01		2023-07-11		Original			

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



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

Report No.: FYCR230700007802

Page: 3 of 41

2 Test Summary

Radio Spectrum Technical Requirement						
Item	Standard	Method	Requirement	Result		
Antenna Requirement	47 CFR Part 15, Subpart C 15.249	N/A	47 CFR Part 15, Subpart C 15.203	Pass		

Radio Spectrum Matter Part						
Item	Standard	Method	Requirement	Result		
20dB Bandwidth		ANSI C63.10 (2013) Section 6.9	47 CFR Part 15, Subpart C 15.215	Pass		
Field Strength of the Fundamental Signal (15.249(a))		ANSI C63.10 (2013) Section 6.5&6.6	47 CFR Part 15, Subpart C 15.249(a)	Pass		
Restricted Band Around Fundamental Frequency	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209	Pass		
Radiated Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4&6.5	47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)	Pass		
Radiated Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)	Pass		



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

Report No.: FYCR230700007802

Page: 4 of 41

3 Contents

			Page
1	Cove	er Page	1
2	Test	Summary	3
_			
3	Cont	ents	4
4	Gene	eral Information	6
	4.1	Details of E.U.T.	6
	4.2	Description of Support Units	6
	4.3	Measurement Uncertainty	
	4.4	Test Location	
	4.5	Test Facility	
	4.6 4.7	Deviation from Standards	
5	Equi	pment List	8
_	Ded:	a Chapturum Taahmiaal Daguriyamant	4.0
6	Radi	o Spectrum Technical Requirement	
	6.1	Antenna Requirement	
	6.1.1		
	6.1.2		
7	Radi	o Spectrum Matter Test Results	11
	7.1	20dB Bandwidth	11
	7.1.1	E.U.T. Operation	11
	7.1.2	·	
	7.1.3	1 5	
	7.1.4		
	7.2 7.2.1	Field Strength of the Fundamental Signal (15.249(a))	
	7.2.1		
	7.2.3	·	
	7.2.4	· · ·	
	7.3	Restricted Band Around Fundamental Frequency	23
	7.3.1		
	7.3.2	•	
	7.3.3	, ,	
	7.3.4 7.4	Measurement Procedure and Data Radiated Emissions Below 1GHz	
	7.4 7.4.1		
	7.4.2	·	
	7.4.3	·	
	7.4.4	·	
	7.5	Radiated Emissions Above 1GHz	
	7.5.1		
	7.5.2	Test Mode Description	33



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

Report No.:	FYCR230700007802
-------------	------------------

Page: 5 of 41

7.5.4	Test Setup Diagram	34
	·	
A FUT	Constructional Details (EUT Photos)	



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

Report No.: FYCR230700007802

Page: 6 of 41

4 General Information

4.1 Details of E.U.T.

Power supply:	Remote: 3Vdc via 'AA' Battery*2
Operation Frequency:	2420-2465MHz
Modulation Type:	GFSK
Number of Channels:	13
Antenna Type:	Integral Antenna

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.

Channel list

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
1	2420	5	2437	9	2445	13	2465
2	2431	6	2439	10	2459		
3	2433	7	2441	11	2461		
4	2435	8	2443	12	2463		

4.2 Description of Support Units

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

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
20dB Bandwidth	± 0.3%
Field Strength of the Fundamental Signal (15.249(a))	± 5.8dB (Below 1GHz),± 4.8dB (Above 1GHz)
Restricted Band Around Fundamental Frequency	± 5.8dB (Below 1GHz),± 4.8dB (Above 1GHz)
Radiated Emissions Below 1GHz	± 5.8dB
Radiated Emissions Above 1GHz	± 4.8dB (1-18GHz); ± 4.6dB (18- 40GHz)

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{cispr/ETSI}$ (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.: FYCR230700007802

Page: 7 of 41

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.: FYCR230700007802

Page: 8 of 41

5 Equipment List

20dB Bandwidth						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2023/3/21	2024/3/20	
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11	
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A	

Field Strength of the Fundamental Signal (15.249(a))								
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			
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			
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25			
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-23	2023/3/20	2024/3/19			
Coaxial Cable	CCS	N/A	SEM035-01	2023/5/15	2024/5/14			
Coaxial Cable	CCS	N/A	SEM035-02	2023/5/15	2024/5/14			
Pre-amplifier	TST PASS	LNA04080G30	SEM005-27	2023/3/30	2024/3/29			
Pre-amplifier	TST PASS	LNA10180G45	SEM005-28	2023/3/31	2024/3/30			
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A			

Restricted Band Around Fundamental Frequency								
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			
MXE EMI receiver	Agilent	N9038A	SEM004-05	2022/7/12	2023/7/11			
Pre-amplifier	HP	GHT N9020A SEM004-23	SEM005-02	2022/7/12 2021/9/26 2023/3/20 2023/5/15	2023/7/11 2024/9/25 2024/3/19 2024/5/14			
Broad-Band Horn Antenna	Schwarzbeck		SEM004-23					
MXA Signal Analyzer	KEYSIGHT							
Coaxial Cable	CCS							
Coaxial Cable	CCS	N/A	SEM035-02	2023/5/15	2024/5/14			
Pre-amplifier	TST PASS	LNA04080G30	SEM005-27	2023/3/30	2024/3/29			
Pre-amplifier	TST PASS	LNA10180G45	SEM005-28	2023/3/31	2024/3/30			
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.: FYCR230700007802

Page: 9 of 41

Radiated 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		
Loop Antenna	ETS-LINDGREN	6502	SEM003-36	2021/9/26	2024/9/25		
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24		
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	2023/5/15	2024/5/14		
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A		

Radiated 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	2023/3/20	2024/3/19	
Coaxial Cable	CCS	N/A	SEM035-03	2023/5/15	2024/5/14	
Pre-amplifier	TST PASS	LNA04080G30	SEM005-27	2023/3/30	2024/3/29	
Pre-amplifier	TST PASS	LNA10180G45	SEM005-28	2023/3/31	2024/3/30	
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	Mingle	TH607	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.: FYCR230700007802

Page: 10 of 41

6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

15.203 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.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement.

Antenna location: Refer to Internal photos



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

Report No.: FYCR230700007802

Page: 11 of 41

7 Radio Spectrum Matter Test Results

7.1 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.215 Test Method: ANSI C63.10 (2013) Section 6.9

7.1.1 E.U.T. Operation

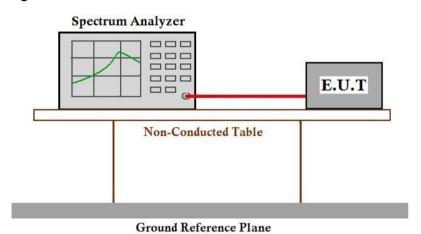
Operating Environment:

Temperature: 23.6 °C Humidity: 52.1 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in transmitting with modulation mode.

7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

Test channel	20dB bandwidth (MHz)	Results		
2420MHz	6.346	Pass		
2445MHz	5.827	Pass		
2465MHz	5.310	Pass		



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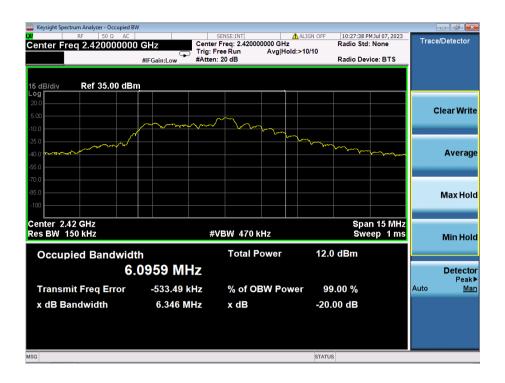
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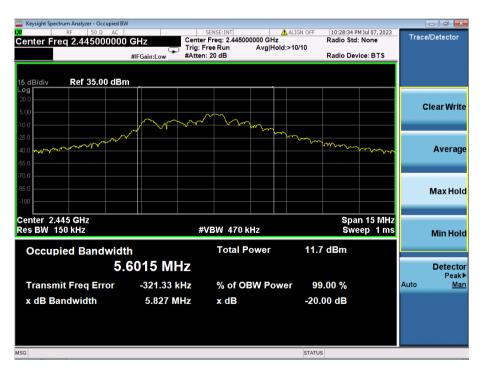


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230700007802

Page: 12 of 41







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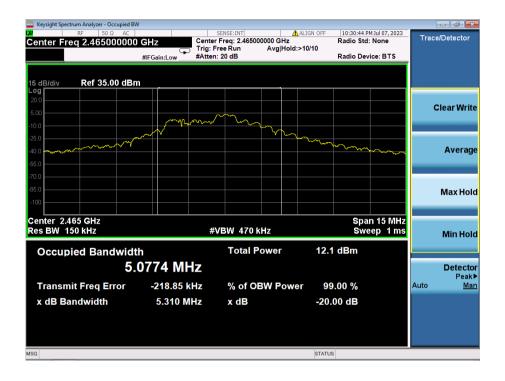
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230700007802

Page: 13 of 41





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

Report No.: FYCR230700007802

Page: 14 of 41

7.2 Field Strength of the Fundamental Signal (15.249(a))

Test Requirement 47 CFR Part 15, Subpart C 15.249(a)
Test Method: ANSI C63.10 (2013) Section 6.5&6.6

Measurement Distance: 3m

Limit:

Fundamental frequency(MHz)	Field strength of fundamental(millivolts/meter)	Field strength of harmonics(microvolts/meter)
902-928	50	500
2400-2483.5	50	500
5725-5875	50	500
24000-24250	250	2500

Remark: The frequencies above 1000MHz 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 fundamental frequency in "902-928MHz", the field strength of fundamental is based on Quasi-Peak.

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22.4 °C Humidity: 52.3 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description				
Final test	00	TX mode_Keep the EUT in transmitting with modulation mode.				

Average value:

	Average value=Peak value + PDCF
Calculate Formula:	PDCF=20 log(Duty cycle)
	Duty cycle= T on time / T period
	Ton time =0.379ms
Test data:	T period =15.65ms
resi dala.	Duty cycle=2.42%
	PDCF value= -32.32dB



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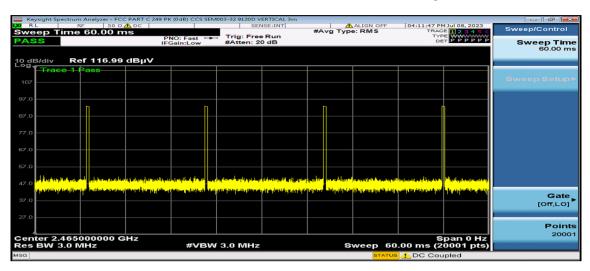
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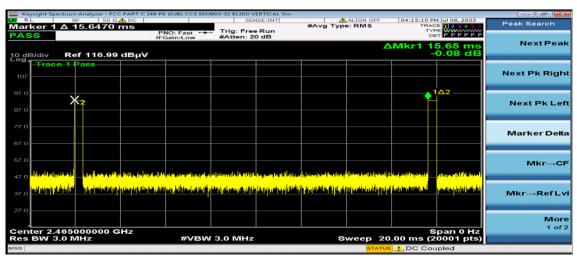


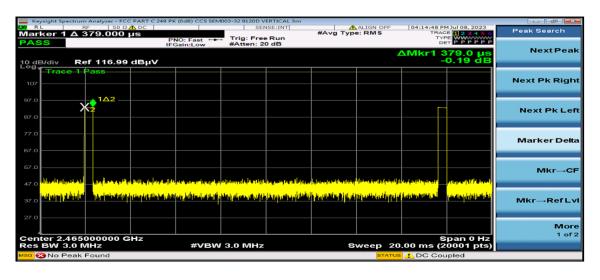
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Report No.: FYCR230700007802

Page: 15 of 41









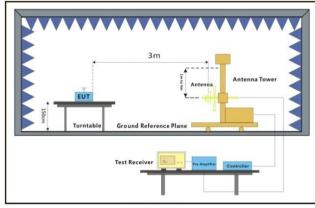


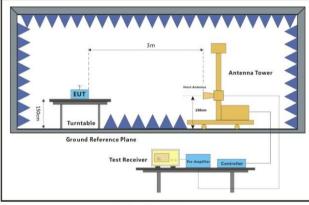
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Report No.: FYCR230700007802

Page: 16 of 41

7.2.3 Test Setup Diagram





30MHz-1GHz Above 1GHz

7.2.4 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: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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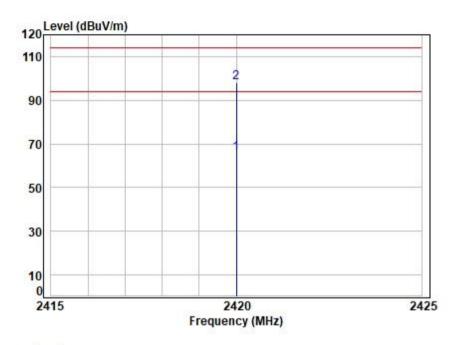


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230700007802

Page: 17 of 41

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00078ET

Mode : 2420 Field Strengh

	Freq			Preamp Factor						
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	<u> </u>	_
1	2420.00	5.07	27.23	32.50	65.81	65.61	94.00	-28.39	Average	
2	2420.00	5.07	27.23	32.50	98.13	97.93	114.00	-16.07	peak	



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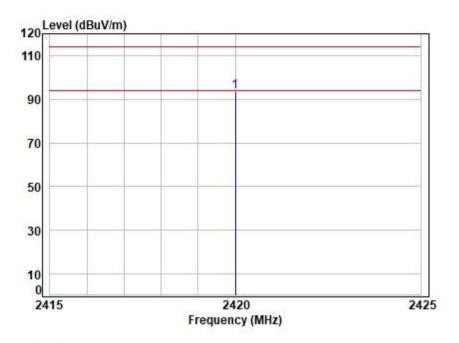


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230700007802

Page: 18 of 41

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



Site : chamber Condition: 3m VERTICAL Job No : 00078ET

Mode : 2420 Field Strengh

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Level Level Line Limit Remark Freq MHz dB dB/m dB dBuV dBuV/m dBuV/m dB

1 2420.00 5.07 27.23 32.50 93.81 93.61 114.00 -20.39 peak



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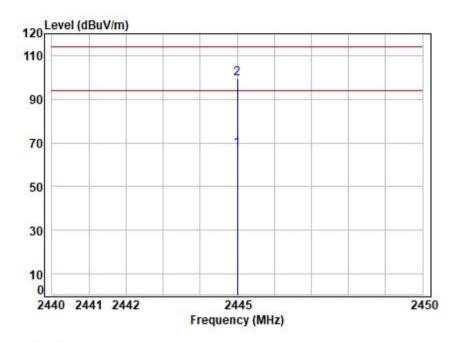


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230700007802

Page: 19 of 41

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00078ET

1 2

Mode : 2445 Field Strengh

	Freq			Preamp Factor					
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	<u> </u>
	2445.00	5.09	27.28	32.50	67.40	67.27	94.00	-26.73	Average
	2445.00	5.09	27.28	32.50	99.72	99.59	114.00	-14.41	Peak



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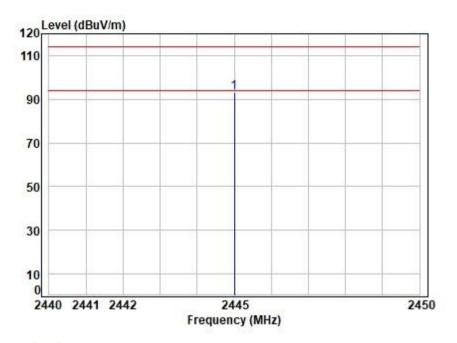


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230700007802

Page: 20 of 41

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



Site : chamber Condition: 3m VERTICAL Job No : 00078ET

Mode : 2445 Field Strengh

Cable Ant Preamp Read Limit Over

Freq Loss Factor Factor Level Level Line Limit Remark

MHz dB dB/m dB dBuV dBuV/m dBuV/m dB

1 2445.00 5.09 27.28 32.50 93.40 93.27 114.00 -20.73 Peak



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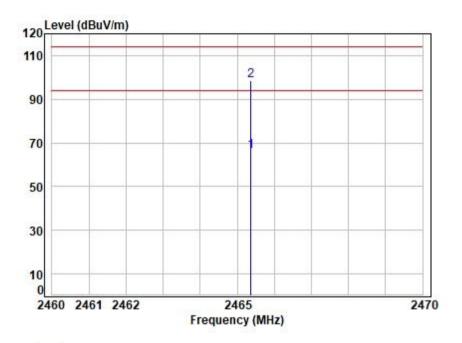


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230700007802

Page: 21 of 41

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00078ET

1 2

Mode : 2465 Field Strengh

	Freq	Cable <i>F</i> eq Loss Fact		-					
<u> </u>	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	i de la composition della comp
	2465.36	5.11	27.32	32.50	66.16	66.09	94.00	-27.91	Average
	2465.36	5.11	27.32	32.50	98.48	98.41	114.00	-15.59	peak



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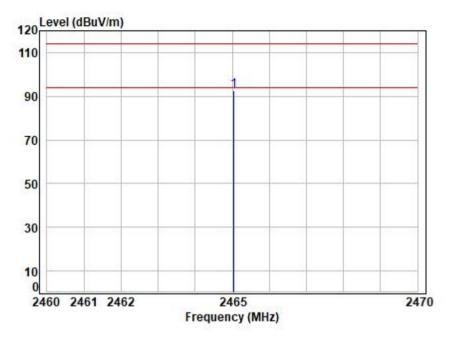


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230700007802

Page: 22 of 41

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



Site : chamber Condition: 3m VERTICAL Job No : 00078ET

Mode : 2465 Field Strengh

Cable Ant Preamp Read Limit Over

Freq Loss Factor Factor Level Level Line Limit Remark

MHz dB dB/m dB dBuV dBuV/m dBuV/m dB

1 2465.04 5.11 27.32 32.50 92.51 92.44 114.00 -21.56 peak



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

Report No.: FYCR230700007802

Page: 23 of 41

7.3 Restricted Band Around Fundamental Frequency

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209

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

Measurement Distance: 3m

Limit:

Frequency	Limit (dBuV/m @3m)	Remark		
30MHz-88MHz	40.0	Quasi-peak Value		
88MHz-216MHz	43.5	Quasi-peak Value		
216MHz-960MHz	46.0	Quasi-peak Value		
960MHz-1GHz	54.0	Quasi-peak Value		
Above 1GHz	54.0	Average Value		
Above 1GHz	74.0	Peak Value		

Emission radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 21.4 °C Humidity: 51.3 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in transmitting with modulation mode.



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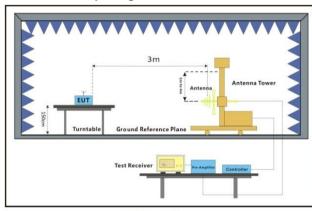


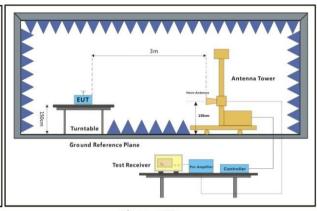
SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230700007802

Page: 24 of 41

7.3.3 Test Setup Diagram





30MHz-1GHz

Above 1GHz

7.3.4 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: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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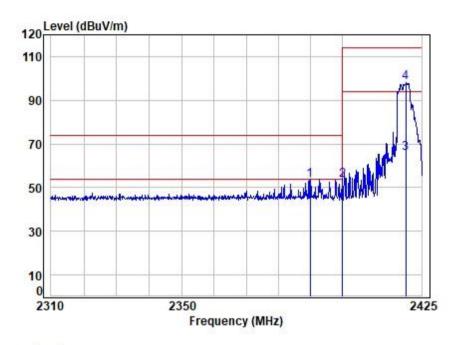


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230700007802

Page: 25 of 41

Test Mode: 00; Polarity: Horizontal; Hob Position:Left



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00078ET

Mode : 2420 Band edge

	Freq			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	5 <u>14</u> 9 1
1	2389.80	5.05	27.16	32.50	53.50	53.21	74.00	-20.79	Peak
2	2400.00	5.06	27.18	32.50	53.74	53.48	74.00	-20.52	peak
3	2420.00	5.07	27.23	32.50	65.81	65.61	94.00	-28.39	Average
4	2420.00	5.07	27.23	32.50	98.13	97.93	114.00	-16.07	peak



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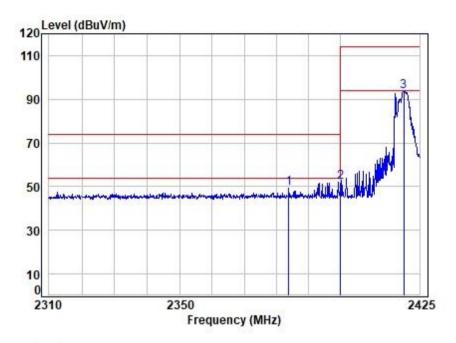


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230700007802

Page: 26 of 41

Test Mode: 00; Polarity: Vertical; Hob Position:Left



Site : chamber Condition: 3m VERTICAL Job No : 00078ET

Mode : 2420 Band edge

		Cabla	Λn+	Preamp	Road		Limit	Ovon	
	Freq			Factor					
2	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	5 <u>1</u>
1	2383.77	5.05	27.14	32.50	49.54	49.23	74.00	-24.77	Peak
2	2400.00	5.06	27.18	32.50	52.19	51.93	74.00	-22.07	peak
3	2420.00	5.07	27.23	32.50	93.81	93.61	114.00	-20.39	peak



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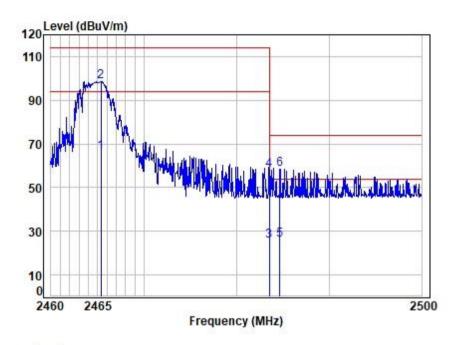
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230700007802

Page: 27 of 41



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00078ET

Mode : 2465 Band edge

	Freq			Preamp Factor			Limit Line		
	MHz	——dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	5 <u>1</u>
1	2465.36	5.11	27.32	32.50	66.16	66.09	94.00	-27.91	Average
2	2465.36	5.11	27.32	32.50	98.48	98.41	114.00	-15.59	peak
3	2483.50	5.12	27.36	32.50	25.58	25.56	54.00	-28.44	Average
4	2483.50	5.12	27.36	32.50	57.90	57.88	74.00	-16.12	peak
5	2484.60	5.12	27.37	32.50	25.91	25.90	54.00	-28.10	Average
6	2484.60	5.12	27.37	32.50	58.23	58.22	74.00	-15.78	Peak



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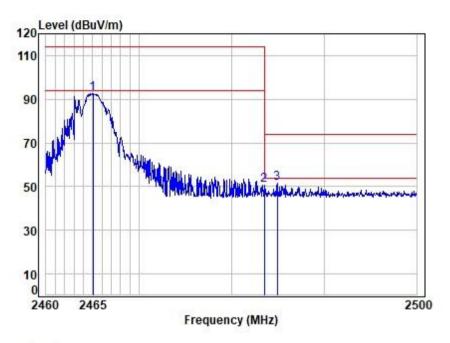
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230700007802

Page: 28 of 41



Site : chamber Condition: 3m VERTICAL Job No : 00078ET

Mode : 2465 Band edge

-			8-						
	Freq			Preamp Factor					
2	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	<u> </u>
1	2465.04	5.11	27.32	32.50	92.51	92.44	114.00	-21.56	peak
2	2483.50	5.12	27.36	32.50	50.70	50.68	74.00	-23.32	peak
3	2484 88								



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

Report No.: FYCR230700007802

Page: 29 of 41

7.4 Radiated Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)

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						

7.4.1 E.U.T. Operation

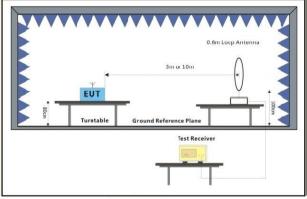
Operating Environment:

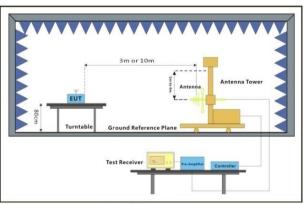
Temperature: 23.4 °C Humidity: 52.6 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in transmitting with modulation mode.

7.4.3 Test Setup Diagram





Below 30MHz-1GHz



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

Report No.: FYCR230700007802

Page: 30 of 41

7.4.4 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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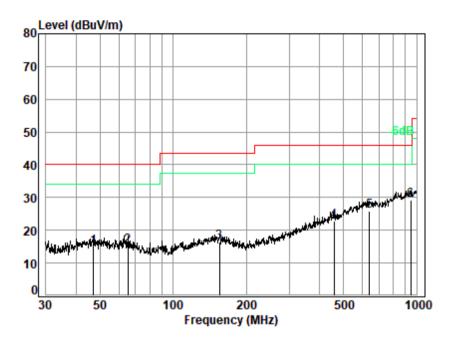


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230700007802

Page: 31 of 41

Test Mode: 00; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00078ET

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	46.99	0.20	17.27	25.87	23.22	14.82	40.00	-25.18	QP
2	65.11	0.21	16.54	25.84	24.43	15.34	40.00	-24.66	QP
3	155.36	0.88	17.32	25.52	23.81	16.49	43.50	-27.01	QP
4	459.11	1.49	21.85	25.22	24.74	22.86	46.00	-23.14	QP
5	640.61	2.18	25.03	25.62	24.39	25.98	46.00	-20.02	QP
6	945.44	2.20	29.36	26.33	23.86	29.09	46.00	-16.91	OP



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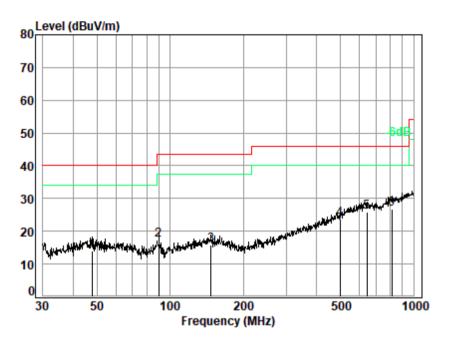


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230700007802

Page: 32 of 41

Test Mode: 00; Polarity: Vertical



Site : chamber Condition: 3m VERTICAL Job No : 00078ET

Mode : 00

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	47.83	0.19	17.27	25.86	22.53	14.13	40.00	-25.87	QP
2	89.90	0.65	13.60	25.81	28.95	17.39	43.50	-26.11	QP
3	147.40	0.92	17.52	25.55	22.90	15.79	43.50	-27.71	QP
4	499.42	1.41	22.83	25.25	24.75	23.74	46.00	-22.26	QP
5	642.86	2.18	25.06	25.64	24.16	25.76	46.00	-20.24	QP
6	813.11	2.78	27.49	26.66	23.03	26.64	46.00	-19.36	QP



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

Report No.: FYCR230700007802

Page: 33 of 41

7.5 Radiated Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)

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

7.5.1 E.U.T. Operation

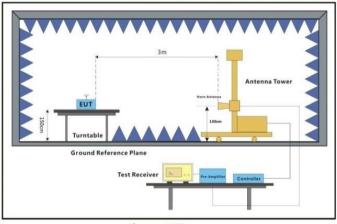
Operating Environment:

Temperature: 23.2 °C Humidity: 52.3 % RH Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in transmitting with modulation mode.

7.5.3 Test Setup Diagram



Above 1GHz



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

Report No.: FYCR230700007802

Page: 34 of 41

7.5.4 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 18GHz to 40GHz, 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.
- 4. The disturbance above 18GHz were 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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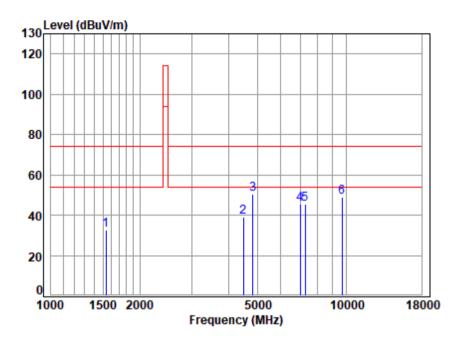


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230700007802

Page: 35 of 41

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00078ET Mode : 2420 TX RSE

		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	1533.84	3.85	24.61	52.87	57.26	32.85	74.00	-41.15	peak
2	4495.13	7.47	30.19	52.96	54.22	38.92	74.00	-35.08	peak
3	4840.00	8.04	31.03	53.06	64.27	50.28	74.00	-23.72	peak
4	6974.98	8.17	35.74	53.48	55.29	45.72	74.00	-28.28	peak
5	7260.00	8.32	36.12	53.53	54.68	45.59	74.00	-28.41	peak
6	9680.00	11.35	37.69	53.51	53.20	48.73	74.00	-25.27	peak



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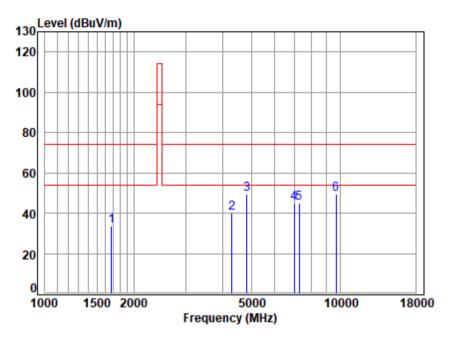


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230700007802

Page: 36 of 41

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



Site : chamber Condition: 3m VERTICAL Job No : 00078ET Mode : 2420 TX RSE

		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	1682.48	4.16	24.97	52.95	57.55	33.73	74.00	-40.27	peak
2	4304.40								
3	4840.00	8.04	31.03	53.06	63.32	49.33	74.00	-24.67	peak
4	6995.17	8.19	35.79	53.50	54.63	45.11	74.00	-28.89	peak
5	7260.00	8.32	36.12	53.53	54.05	44.96	74.00	-29.04	peak
6	9680.00	11.35	37.69	53.51	53.67	49.20	74.00	-24.80	peak



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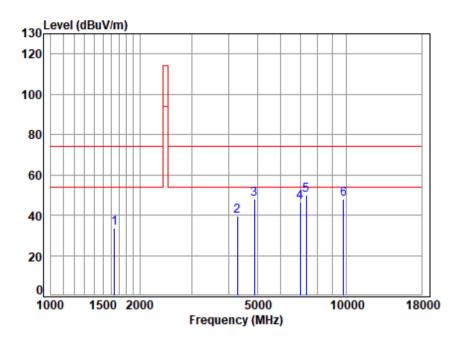


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230700007802

Page: 37 of 41

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00078ET Mode : 2445 TX RSE

		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	1639.27	4.07	24.88	52.93	57.57	33.59	74.00	-40.41	peak	
2	4279.59	7.48	29.90	52.89	54.88	39.37	74.00	-34.63	peak	
3	4890.00	8.12	31.15	53.07	61.53	47.73	74.00	-26.27	peak	
4	6974.98	8.17	35.74	53.48	56.26	46.69	74.00	-27.31	peak	
5	7335.00	8.35	36.21	53.54	58.72	49.74	74.00	-24.26	peak	
6	9780.00	11.28	37.91	53.41	52.33	48.11	74.00	-25.89	peak	



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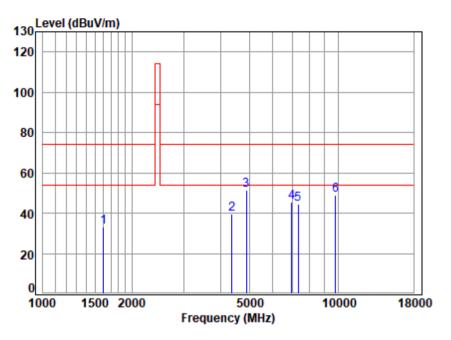


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230700007802

Page: 38 of 41

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



Site : chamber Condition: 3m VERTICAL Job No : 00078ET Mode : 2445 TX RSE

	Freq			Preamp Factor			Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1601.80	3.99	24.80	52.91	57.30	33.18	74.00	-40.82	peak
2	4367.06	7.48	30.02	52.92	54.81	39.39	74.00	-34.61	peak
3	4890.00	8.12	31.15	53.07	65.21	51.41	74.00	-22.59	peak
4	6954.85	8.15	35.70	53.47	55.33	45.71	74.00	-28.29	peak
5	7335.00	8.35	36.21	53.54	53.64	44.66	74.00	-29.34	peak
6	9780.00	11.28	37.91	53.41	53.33	49.11	74.00	-24.89	peak



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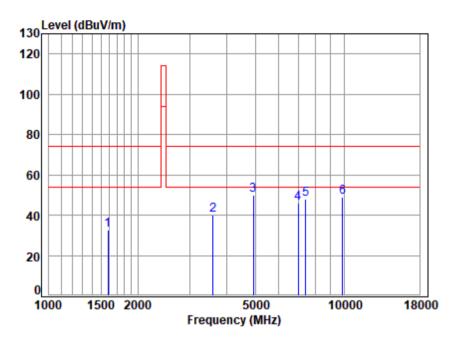


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230700007802

Page: 39 of 41

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00078ET Mode : 2465 TX RSE

		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	
4	1502 20	2 05	24.75	F2 00	FC 9C	22.66	74.00	44 24	
1	1583.39	3.95	24./5	52.90	30.00	32.00	74.00	-41.54	peak
2	3598.20	7.09	28.87	52.91	56.78	39.83	74.00	-34.17	peak
3	4930.00	8.19	31.24	53.08	63.54	49.89	74.00	-24.11	peak
4	6974.98	8.17	35.74	53.48	55.35	45.78	74.00	-28.22	peak
5	7395.00	8.38	36.28	53.54	56.91	48.03	74.00	-25.97	peak
6	9860.00	11.22	38.09	53.33	52.94	48.92	74.00	-25.08	peak



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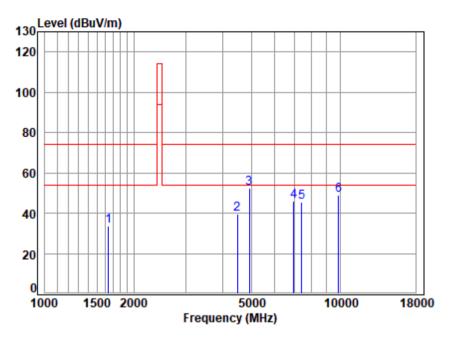


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230700007802

Page: 40 of 41

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



Site : chamber Condition: 3m VERTICAL Job No : 00078ET Mode : 2465 TX RSE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
1	1639.27	4.07	24.88	52.93	57.54	33.56	74.00	-40.44	peak
2	4495.13	7.47	30.19	52.96	54.73	39.43	74.00	-34.57	peak
3	4930.00	8.19	31.24	53.08	66.20	52.55	74.00	-21.45	peak
4	6954.85	8.15	35.70	53.47	55.41	45.79	74.00	-28.21	peak
5	7395.00	8.38	36.28	53.54	54.53	45.65	74.00	-28.35	peak
6	9860.00	11.22	38.09	53.33	53.02	49.00	74.00	-25.00	peak



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Report No.: FYCR230700007802

Page: 41 of 41

8 Test Setup Photo

Refer to Appendix - Test Setup Photo for FYCR2307000078ET

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - external and internal photos for FYCR2307000078ET

- End of the Report -



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