

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240900340102

> Page: 1 of 77

TEST REPORT

Application No.: SZCR2409003401AT

Applicant: Zhejiang Changshuo Lighting Co., LTD

Address of Applicant: 429 Chuanjin Road, Dongcheng Town, Linhai City, Taizhou City, Zhejiang

Province. China

Manufacturer: Zhejiang Changshuo Lighting Co., LTD

Address of Manufacturer: 429 Chuanjin Road, Dongcheng Town, Linhai City, Taizhou City Zhejiang

Province, China

Factory: Zhejiang Changshuo Lighting Co., LTD

Address of Factory: 429 Chuanjin Road, Dongcheng Town, Linhai City, Taizhou City Zhejiang

Province, China

Equipment Under Test (EUT):

EUT Name: 1314RGB Lighting

Model No.: CSU-A-30-2000-L, CSU-A-30-2000-L-B1, CSU-A-30-2000-L-B2,

CSU-A-V-****-M-T-B

Please refer to section 2 of this report which indicates which model was

actually tested and which were electrically identical.

FCC ID: 2BD62-CSB

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

2024-09-02 **Date of Receipt:**

2024-09-09 to 2024-09-12 **Date of Test:**

2024-09-13 Date of Issue:

Pass* Test Result:

Keny Xu **EMC Laboratory Manager**

Ceny. Ku



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No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn 中国・广东・深圳市南山区科技园中区№-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900340102

Page: 2 of 77

	Revision Record							
Version	Chapter	Date	Modifier	Remark				
01		2024-09-13		Original				

Authorized for issue by:		
	Brie Cherr	
	Bill Chen/Project Engineer	
	Exic Fu	
	Eric Fu/Reviewer	



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900340102

Page: 3 of 77

Test Summary 2

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		
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	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	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		ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass		
Conducted Band Edges Measurement		ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass		
Conducted Spurious Emissions		ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass		



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900340102

Page: 4 of 77

Declaration of EUT Family Grouping:

Model No.: CSU-A-30-2000-L, CSU-A-30-2000-L-B1, CSU-A-30-2000-L-B2, CSU-A-V-****-M-T-B

Only the model CSU-A-30-2000-L was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used and internal wiring and functions were identical for the above models, with only difference being of number of LED beads.

Remark: The related letters meaning:

"A" means lamp bead model, can be "RGB" or "RGBW"

"V" means voltage, can be "5-30", representing "5V-30V"

"****" means the number of LED beads, which can be "10-2000 lamp beads".

"M" means modeling, can be ice strip type "I", linear "L", curtain type "C", net type "N", linear with decorative piece "LM", ice strip type with decorative piece "IM", curtain type with decorative piece "CM", net type with decorative piece "NM", modeling class "MM"

"T" means the light string has a connected device, the light string has no "T" indicates that there is no connected device, the total power of the light string does not exceed the output power of the adapter

"B" indicates: lamp bead form, "B1" represents copper wire lamp. "B2" stands for leather wire lamp, None "B" indicates the in-line welding lamp.



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900340102

Page: 5 of 77

3 **Contents**

		Page
1	1 Cover Page	1
2	2 Test Summary	3
•	2	-
3	3 Contents	
4	4 General Information	7
	4.1 Details of E.U.T.	7
	4.2 Description of Support Units	7
	4.3 Measurement Uncertainty	8
	4.4 Test Location	
	4.5 Test Facility	
	4.6 Deviation from Standards	
	4.7 Abnormalities from Standard Conditions	g
5	5 Equipment List	10
6	6 Radio Spectrum Technical Requirement	10
U		
	6.1 Antenna Requirement	
	6.1.1 Test Requirement:	
	6.1.2 Conclusion	
7	7 Radio Spectrum Matter Test Results	13
	7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)	
	7.1.1 E.U.T. Operation	
	7.1.2 Test Mode Description	
	7.1.3 Test Setup Diagram	
	7.1.4 Measurement Procedure and Data	
	7.2 Radiated Emissions which fall in the restricted bands	
	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	
	7.3.1 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 Radiated Spurious Emissions Above 1GHz	
	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 Peak Output Power	
	7.5.1 E.U.T. Operation	



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900340102

Page: 6 of 77

	7.5.2	Test Mode Description	45
	7.5.3	Test Setup Diagram	
	7.5.4	Measurement Procedure and Data	
7.	6 N	/linimum 6dB Bandwidth	
	7.6.1	E.U.T. Operation	47
	7.6.2	Test Mode Description	
	7.6.3	Test Setup Diagram	47
	7.6.4	Measurement Procedure and Data	
7.	7 F	Power Spectrum Density	48
	7.7.1	E.U.T. Operation	48
	7.7.2	Test Mode Description	48
	7.7.3	Test Setup Diagram	48
	7.7.4	Measurement Procedure and Data	48
7.	8 C	Conducted Band Edges Measurement	49
	7.8.1	E.U.T. Operation	49
	7.8.2	Test Mode Description	49
	7.8.3	Test Setup Diagram	49
	7.8.4	Measurement Procedure and Data	50
7.	9 (Conducted Spurious Emissions	51
	7.9.1	E.U.T. Operation	51
	7.9.2	Test Mode Description	51
	7.9.3	Test Setup Diagram	51
	7.9.4	Measurement Procedure and Data	52
8	Toct S	Setup Photo	E1
0	1621 3	Etup F110t0	
9	EUT C	Constructional Details (EUT Photos)	53
10	Δnner	ndix	5/
	whhei	IMIX	



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240900340102

> Page: 7 of 77

General Information

Details of E.U.T. 4.1

Power supply:	Model:JT-DC31V48W-M5
	Input:220-240V 50/60Hz 1.0A
	Output:31V 48W
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.2 LE
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Antenna Type:	PCB Antenna
Antenna Gain:	-0.52dBi

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

4.2 Description of Support Units

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



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900340102

Page: 8 of 77

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.1dB
Radiated Emissions which fall in the restricted bands	± 6.0dB (Below 1GHz);± 4.6dB (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	\pm 6.0dB for 3m; \pm 5.0dB for 10m
Radiated Spurious Emissions Above 1GHz	± 4.6dB (1-18GHz);± 4.8dB (18- 40GHz)
Conducted Peak Output Power	± 0.75dB
Minimum 6dB Bandwidth	± 3%
Power Spectrum Density	± 2.84dB
Conducted Band Edges Measurement	± 0.75dB
Conducted Spurious Emissions	± 0.75dB

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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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240900340102

> Page: 9 of 77

4.4 Test Location

All tests were performed at:

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

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

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

No tests were sub-contracted.

4.5 Test Facility

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

• A2LA (Certificate No. 3816.01)

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

VCCI (Member No. 1937)

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

• FCC -Designation Number: CN1336

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

Designation Number: CN1336. Test Firm Registration Number: 787754.

Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900340102

Page: 10 of 77

5 **Equipment List**

Conducted Emissions at AC Power Line (150kHz-30MHz)						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2022-05-14	2025-05-13	
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2024-03-14	2025-03-13	
Measurement Software	AUDIX	e3 V8.2014-6- 27a	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM024-01	2024-07-06	2025-07-05	
LISN	Rohde&Schwarz	ENV216	SEM007-01	2024-08-15	2025-08-14	
LISN	ETS-LINDGREN	3816/2	SEM007-02	2024-03-14	2025-03-13	

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2024-08-10	2025-08-09
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2024-03-15	2025-03-14

Radiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2024-08-14	2025-08-13
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2024-03-14	2025-03-13
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2024-07-06	2025-07-05



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900340102

Page: 11 of 77

Radiated Spurious Emis	Radiated Spurious Emissions Above 1GHz								
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date				
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10				
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14				
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22				
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18				
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A				
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05				
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2024-08-10	2025-08-09				
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2024-03-15	2025-03-14				

RF Conducted Test								
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date			
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2024-03-27	2025-03-26			
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2024-03-14	2025-03-13			
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2024-08-14	2025-08-13			
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13			
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A			
Coaxial Cable	SGS	N/A	SEM031-01	2024-07-06	2025-07-05			
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2024-03-27	2025-03-26			

General used equipment								
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date			
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2024-07-24	2025-07-23			
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2024-07-24	2025-07-23			
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024-03-18	2025-03-17			



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240900340102

> Page: 12 of 77

Radio Spectrum Technical Requirement 6

6.1 Antenna Requirement

6.1.1 Test Requirement:

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

6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that 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 no consideration of replacement. The best case gain of the antenna is -0.52dBi. Antenna location: Refer to internal photo.



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900340102

Page: 13 of 77

Radio Spectrum Matter Test Results 7

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

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

Limit:

Fraguency of emission/MU-)	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 t	he frequency.							
Detector: Peak for pre-scan (9kHz	Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz							

7.1.1 E.U.T. Operation

Operating Environment:

23.5 °C Humidity: 45.5 % RH Atmospheric Pressure: 1020 mbar Temperature:

7.1.2 Test Mode Description

7.1.2 Test mode besomption									
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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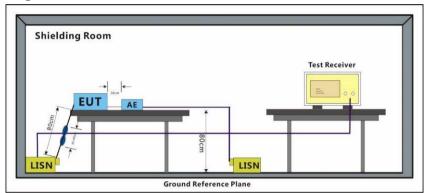
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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240900340102

> Page: 14 of 77

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 50ohm/50uH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: Level=Read Level+ Cable Loss+ LISN Factor



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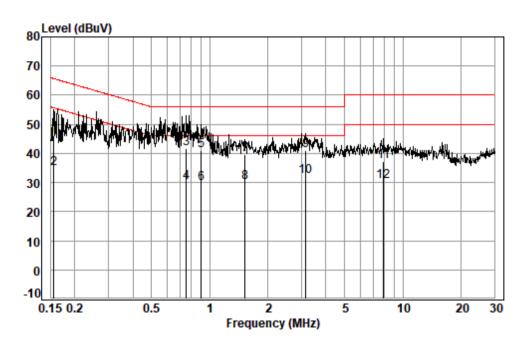


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900340102

Page: 15 of 77

Test Mode: 00; Line: Live line



: Shielding Room

Condition: Line : 03401AT Job No.

Test mode: 00

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1557	0.06	9.89	36.19	46.14	65.69	-19.55	QP
2	0.1557	0.06	9.89	24.89	34.84	55.69	-20.85	Average
3 *	0.7589	0.09	10.01	31.45	41.55	56.00	-14.45	QP
4	0.7589	0.09	10.01	19.87	29.97	46.00	-16.03	Average
5	0.9039	0.09	10.02	30.92	41.03	56.00	-14.97	QP
6	0.9039	0.09	10.02	19.50	29.61	46.00	-16.39	Average
7	1.5274	0.10	10.00	29.48	39.58	56.00	-16.42	QP
8	1.5274	0.10	10.00	19.81	29.91	46.00	-16.09	Average
9	3.1563	0.11	10.04	30.69	40.84	56.00	-15.16	QP
10 *	3.1563	0.11	10.04	21.85	32.00	46.00	-14.00	Average
11	7.9353	0.17	10.15	26.98	37.30	60.00	-22.70	QP
12	7.9353	0.17	10.15	20.13	30.45	50.00	-19.55	Average



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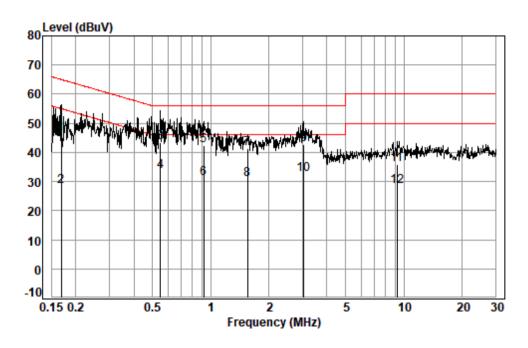


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900340102

Page: 16 of 77

Test Mode: 00; Line: Neutral Line



: Shielding Room

Condition: Neutral Job No. : 03401AT

Test mode: 00

	-	Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1685	0.06	9.90	36.62	46.58	65.03	-18.45	QP
2	0.1685	0.06	9.90	18.48	28.44	55.03	-26.59	Average
3 *	0.5493	0.08	9.95	33.41	43.44	56.00	-12.56	QP
4 *	0.5493	0.08	9.95	23.42	33.45	46.00	-12.55	Average
5	0.9184	0.09	9.96	32.25	42.30	56.00	-13.70	QP
6	0.9184	0.09	9.96	21.19	31.24	46.00	-14.76	Average
7	1.5518	0.10	9.95	31.14	41.19	56.00	-14.81	QP
8	1.5518	0.10	9.95	20.56	30.61	46.00	-15.39	Average
9	3.0414	0.11	9.97	32.51	42.59	56.00	-13.41	QP
10	3.0414	0.11	9.97	22.38	32.46	46.00	-13.54	Average
11	9.2043	0.19	10.23	25.57	35.99	60.00	-24.01	QP
12	9.2043	0.19	10.23	17.79	28.21	50.00	-21.79	Average



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> Page: 17 of 77

7.2 Radiated Emissions which fall in the restricted bands

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

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

Measurement Distance: 3m

Limit:

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

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

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 21.6 °C Humidity: 52.8 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

	1212 1001 111040 20001 211011										
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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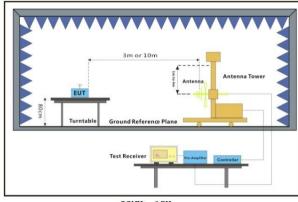
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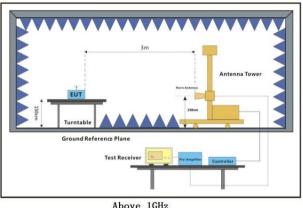


SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240900340102

> Page: 18 of 77

7.2.3 Test Setup Diagram





30MHz-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 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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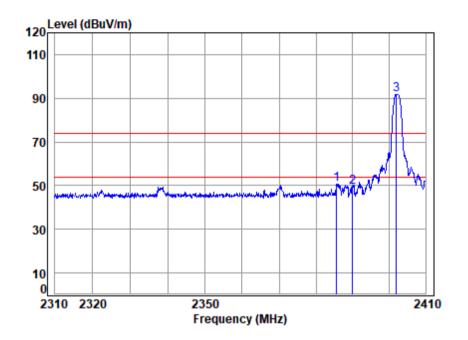


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900340102

Page: 19 of 77

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



Site : chamber

Condition: 3m HORIZONTAL

: 03401AT

: 2402 Band edge Mode

Note RIF 1M

JLE	. DLL	TLI								
		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	2385.61	5.07	29.10	37.45	54.12	50.84	74.00	-23.16	peak	
2	2390.00	5.08	29.10	37.44	52.36	49.10	74.00	-24.90	peak	
3	2402.00	5.09	29.09	37.41	95.05	91.82	74.00	17.82	peak	



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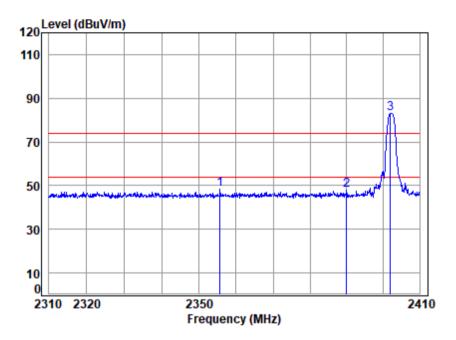


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900340102

Page: 20 of 77

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



Site : chamber Condition: 3m VERTICAL : 03401AT

Mode : 2402 Band edge

: BLE 1M Note

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2355.67	5.04	29.10	37.52	51.55	48.17	74.00	-25.83	peak
2	2390.00	5.08	29.10	37.44	51.23	47.97	74.00	-26.03	peak
3	2402.00	5.09	29.09	37.41	86.29	83.06	74.00	9.06	peak



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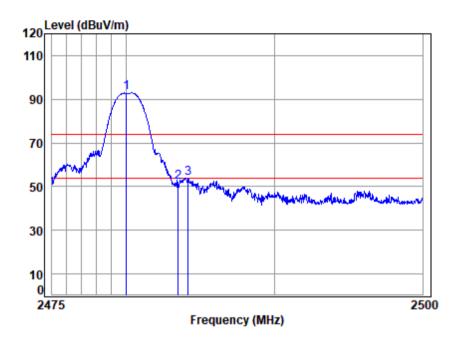


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900340102

Page: 21 of 77

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



Site : chamber

Condition: 3m HORIZONTAL

: 03401AT

: 2480 Band edge Mode

Note . BLF 1M

oce	. DLL	TIN								
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
_										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2480.00	5.16	28.90	37.22	96.05	92.89	74.00	18.89	peak	
2	2483.50	5.16	28.90	37.22	55.29	52.13	74.00	-21.87	peak	
3	2484.17	5.16	28.90	37.21	56.81	53.66	74.00	-20.34	neak	



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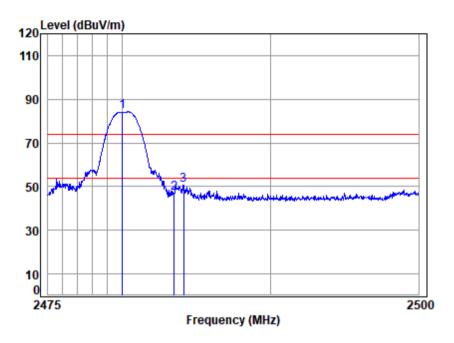


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900340102

Page: 22 of 77

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



Site : chamber Condition: 3m VERTICAL : 03401AT

Mode : 2480 Band edge

: BLE 1M Note

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2480.00	5.16	28.90	37.22	87.38	84.22	74.00	10.22	peak
2	2483.50	5.16	28.90	37.22	50.36	47.20	74.00	-26.80	peak
3	2484.12	5.16	28.90	37.22	53.65	50.49	74.00	-23.51	peak



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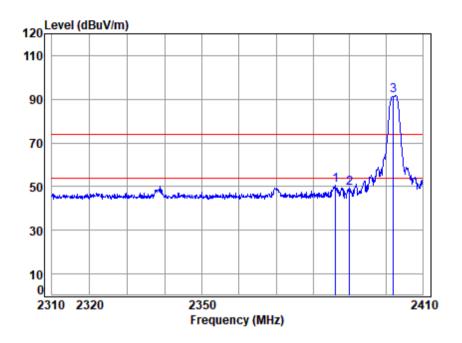


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900340102

Page: 23 of 77

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



Site : chamber

Condition: 3m HORIZONTAL

: 03401AT

: 2402 Band edge Mode

Note . BLF 2M

JLE	. DLL	211								
		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	2386.12	5.07	29.10	37.44	53.86	50.59	74.00	-23.41	peak	
2	2390.00	5.08	29.10	37.44	52.38	49.12	74.00	-24.88	peak	
3	2402.00	5.09	29.09	37.41	94.74	91.51	74.00	17.51	neak	



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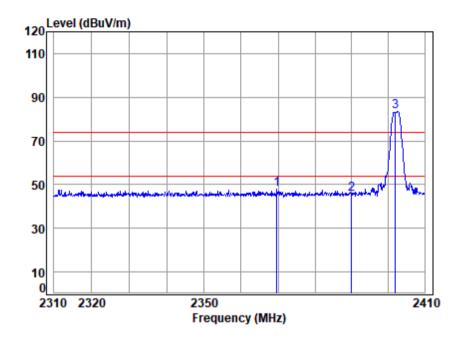


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900340102

Page: 24 of 77

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



Site : chamber Condition: 3m VERTICAL : 03401AT

: 2402 Band edge Mode

Note : BLE 2M

IO CC	. DLL	211								
		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	2369.69	5.06	29.10	37.48	51.11	47.79	74.00	-26.21	peak	
2	2390.00	5.08	29.10	37.44	48.67	45.41	74.00	-28.59	peak	
3	2402 00	5 09	29 09	37 41	86 56	83 33	74 00	9 33	neak	



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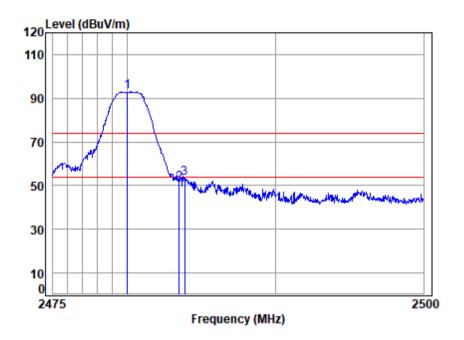


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900340102

Page: 25 of 77

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



Site : chamber

Condition: 3m HORIZONTAL

: 03401AT

Mode : 2480 Band edge

Note . BIF 2M

, ce	. DLL	211								
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2480.00	5.16	28.90	37.22	96.09	92.93	74.00	18.93	peak	
2	2483.50	5.16	28.90	37.22	54.38	51.22	74.00	-22.78	peak	
3	2483.87	5.16	28.90	37.22	56.49	53.33	74.00	-20.67	neak	



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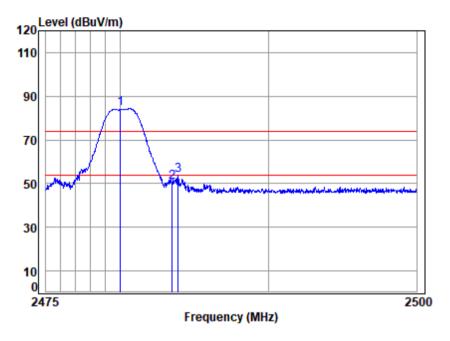


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900340102

Page: 26 of 77

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



Site : chamber Condition: 3m VERTICAL : 03401AT

Mode : 2480 Band edge

Note : BLE 2M

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2480.00	5.16	28.90	37.22	87.50	84.34	74.00	10.34	peak
2	2483.50	5.16	28.90	37.22	53.92	50.76	74.00	-23.24	peak
3	2483.90	5.16	28.90	37.22	56.92	53.76	74.00	-20.24	peak



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900340102

Page: 27 of 77

7.3 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

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 47.5 % 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.
Pre-scan	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.



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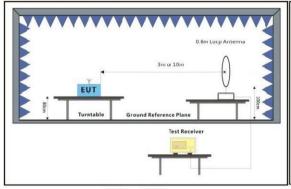
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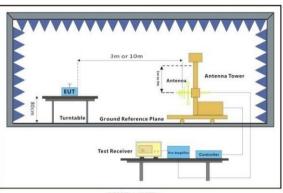


SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240900340102

> Page: 28 of 77

7.3.3 Test Setup Diagram





Below 30MHz

30MHz-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. 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.



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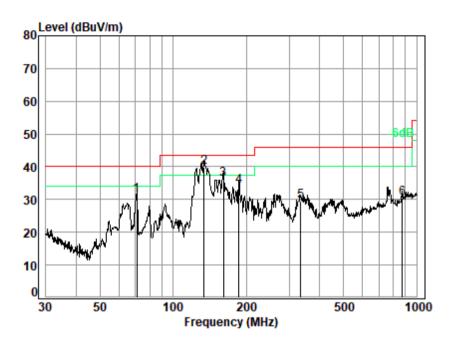


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900340102

Page: 29 of 77

Test Mode: 00; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 03401AT

Test Mode: 00

		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
_	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	70.83	10.57	1.03	27.67	47.36	31.29	40.00	-8.71	QP
2 q	134.09	11.30	1.45	27.45	54.50	39.80	43.50	-3.70	QP
3	160.91	13.53	1.59	27.33	48.45	36.24	43.50	-7.26	QP
4	186.44	14.30	1.71	27.23	45.16	33.94	43.50	-9.56	QP
5	334.86	18.83	2.35	26.89	35.09	29.38	46.00	-16.62	QP
6	872.18	27.66	4.05	26.96	25.66	30.41	46.00	-15.59	OP



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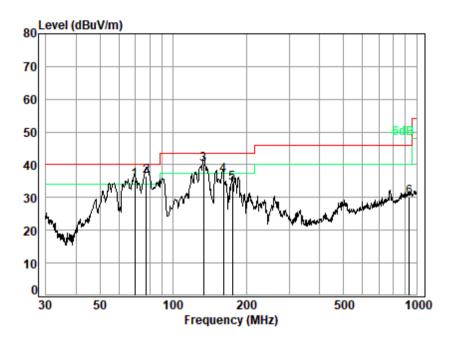


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900340102

Page: 30 of 77

Test Mode: 00; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL Job No. : 03401AT

Test Mode: 00

	Freq	Ant Factor		Preamp Factor					
-	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	69.60	10.63	1.02	27.68	51.21	35.18	40.00	-4.82	QP
2	77.59	10.39	1.07	27.65	52.57	36.38	40.00	-3.62	QP
3 q	133.62	11.25	1.45	27.45	54.97	40.22	43.50	-3.28	QP
4	160.91	13.53	1.59	27.33	48.89	36.68	43.50	-6.82	QP
5	175.04	13.78	1.66	27.27	46.23	34.40	43.50	-9.10	QP
6	932.27	28.16	4.21	26.53	24.22	30.06	46.00	-15.94	QP



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900340102

Page: 31 of 77

7.4 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

7.4.1 E.U.T. Operation

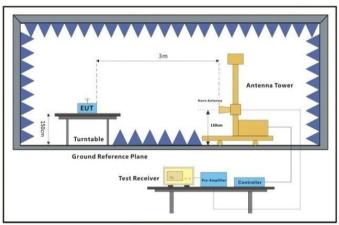
Operating Environment:

Temperature: 22.7 °C Humidity: 51.4 % 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



Above 1GHz



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240900340102

> Page: 32 of 77

7.4.4 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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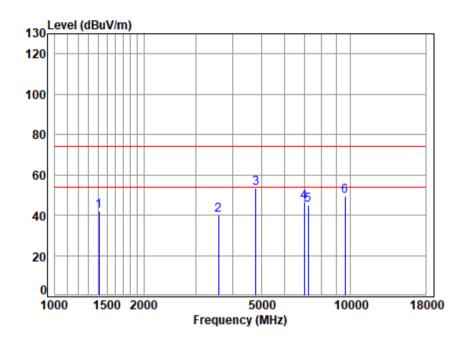


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900340102

Page: 33 of 77

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



Site : chamber

Condition: 3m HORIZONTAL

: 03401AT Mode : 2402 TX RSE

: BLE 1M Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1410.51	3.93	24.77	38.37	51.68	42.01	74.00	-31.99	peak
2	3587.82	6.33	31.98	36.12	38.05	40.24	74.00	-33.76	peak
3	4804.00	7.31	34.32	35.52	47.44	53.55	74.00	-20.45	peak
4	6974.98	8.90	35.75	35.55	37.17	46.27	74.00	-27.73	peak
5	7206.00	9.18	35.70	35.79	35.94	45.03	74.00	-28.97	peak
6	9608.00	12.36	37.42	37.46	37.28	49.60	74.00	-24.40	peak



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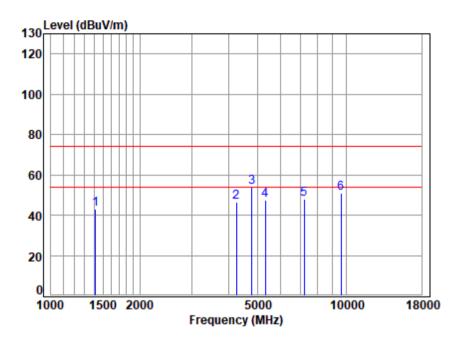


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900340102

Page: 34 of 77

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



Site : chamber Condition: 3m VERTICAL : 03401AT Mode : 2402 TX RSE

: BLE 1M Note

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1418.69	3.94	24.90	38.38	52.63	43.09	74.00	-30.91	peak
2	4254.92	6.96	33.82	35.90	41.54	46.42	74.00	-27.58	peak
3	4804.00	7.31	34.32	35.52	47.54	53.65	74.00	-20.35	peak
4	5330.93	7.69	34.32	35.22	40.54	47.33	74.00	-26.67	peak
5	7206.00	9.18	35.70	35.79	38.87	47.96	74.00	-26.04	peak
6	9608.00	12.36	37.42	37.46	38.83	51.15	74.00	-22.85	peak



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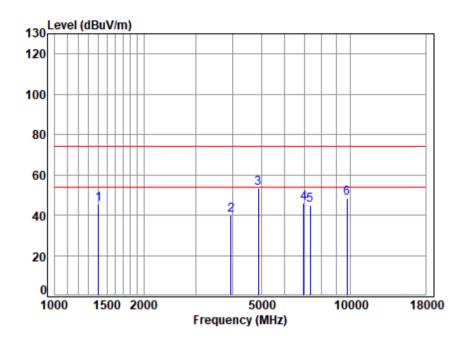


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900340102

Page: 35 of 77

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03401AT Mode : 2440 TX RSE

Note : BLE 1M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1406.44	3.92	24.70	38.37	55.01	45.26	74.00	-28.74	peak
2	3946.89	6.72	33.52	36.10	36.00	40.14	74.00	-33.86	peak
3	4880.00	7.36	34.62	35.47	46.85	53.36	74.00	-20.64	peak
4	6954.85	8.89	35.79	35.54	37.06	46.20	74.00	-27.80	peak
5	7320.00	9.32	35.70	35.90	35.84	44.96	74.00	-29.04	peak
6	9760.00	12.47	37.38	37.43	35.94	48.36	74.00	-25.64	peak



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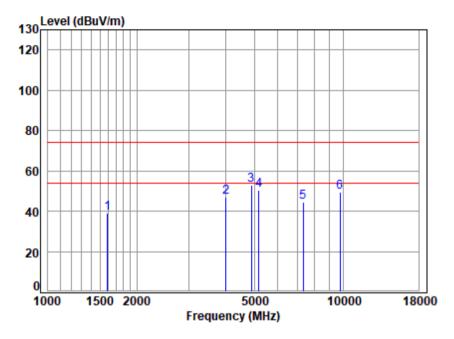


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900340102

Page: 36 of 77

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



Site : chamber Condition: 3m VERTICAL : 03401AT Mode : 2440 TX RSE

: BLE 1M Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
_									
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1592.57	4.19	26.83	38.40	46.20	38.82	74.00	-35.18	peak
2	4004.34	6.78	32.96	36.10	43.22	46.86	74.00	-27.14	peak
3	4880.00	7.36	34.62	35.47	46.31	52.82	74.00	-21.18	peak
4	5179.05	7.57	33.96	35.30	44.28	50.51	74.00	-23.49	peak
5	7320.00	9.32	35.70	35.90	35.57	44.69	74.00	-29.31	peak
6	9760.00	12.47	37.38	37.43	36.98	49.40	74.00	-24.60	peak



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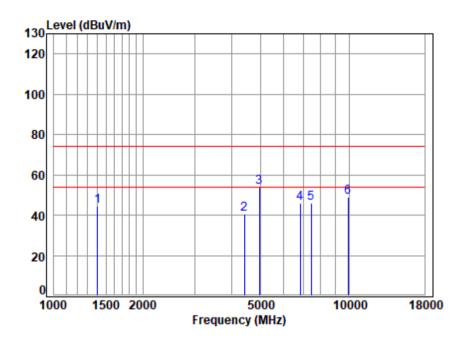


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900340102

Page: 37 of 77

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



Site : chamber

Condition: 3m HORIZONTAL

: 03401AT Mode : 2480 TX RSE

: BLE 1M Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
				20.27			7		
1	1406.44	3.92	24.70	38.37	54.06	44.31	74.00	-29.69	peak
2	4417.84	7.07	34.59	35.78	34.50	40.38	74.00	-33.62	peak
3	4960.00	7.41	34.56	35.42	47.14	53.69	74.00	-20.31	peak
4	6835.28	8.80	35.44	35.47	37.23	46.00	74.00	-28.00	peak
5	7440.00	9.46	35.96	36.02	36.42	45.82	74.00	-28.18	peak
6	9920.00	12.58	37.30	37.39	36.69	49.18	74.00	-24.82	peak



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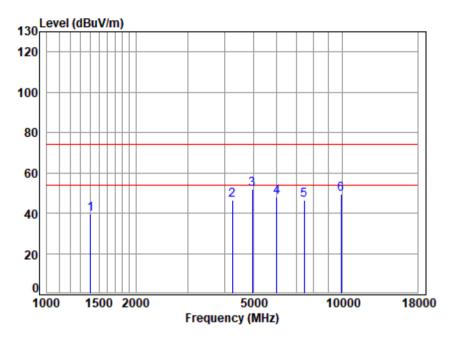


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900340102

Page: 38 of 77

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



Site : chamber Condition: 3m VERTICAL : 03401AT Mode : 2480 TX RSE

: BLE 1M Note

	_			Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1406.44	3.92	24.70	38.37	49.10	39.35	74.00	-34.65	peak
2	4254.92	6.96	33.82	35.90	41.53	46.41	74.00	-27.59	peak
3	4960.00	7.41	34.56	35.42	45.17	51.72	74.00	-22.28	peak
4	6001.63	8.17	34.90	34.90	39.54	47.71	74.00	-26.29	peak
5	7440.00	9.46	35.96	36.02	36.98	46.38	74.00	-27.62	peak
6	9920.00	12.58	37.30	37.39	36.77	49.26	74.00	-24.74	peak



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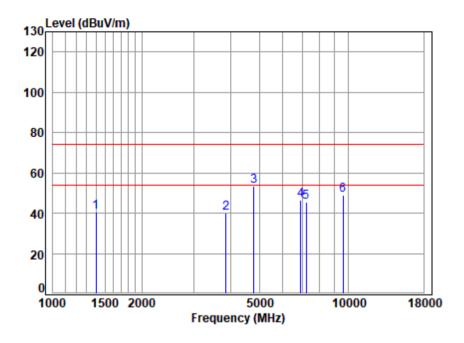


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900340102

Page: 39 of 77

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



Site : chamber

Condition: 3m HORIZONTAL

: 03401AT Mode : 2402 TX RSE

Note : BLE 2M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
							ID 1//		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1402.38	3.92	24.64	38.37	50.49	40.68	74.00	-33.32	peak
2	3856.67			36.11					•
3	4804.00	7.31	34.32	35.52	47.47	53.58	74.00	-20.42	peak
4	6894.81	8.85	35.59	35.50	37.34	46.28	74.00	-27.72	peak
5	7206.00	9.18	35.70	35.79	36.41	45.50	74.00	-28.50	peak
6	9608.00	12.36	37.42	37.46	36.78	49.10	74.00	-24.90	peak



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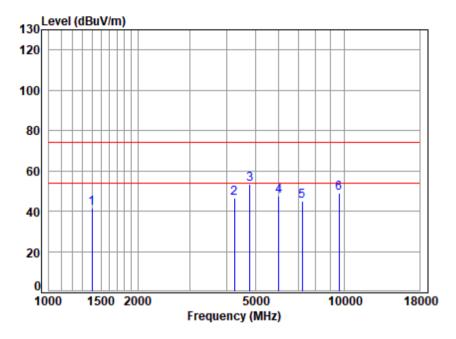


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900340102

Page: 40 of 77

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



Site : chamber Condition: 3m VERTICAL : 03401AT Mode : 2402 TX RSE

Note : BLE 2M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1402.38	3.92	24.64	38.37	51.52	41.71	74.00	-32.29	peak
2	4254.92	6.96	33.82	35.90	41.47	46.35	74.00	-27.65	peak
3	4804.00	7.31	34.32	35.52	47.26	53.37	74.00	-20.63	peak
4	6001.63	8.17	34.90	34.90	39.44	47.61	74.00	-26.39	peak
5	7206.00	9.18	35.70	35.79	36.11	45.20	74.00	-28.80	peak
6	9608.00	12.36	37.42	37.46	36.44	48.76	74.00	-25.24	peak



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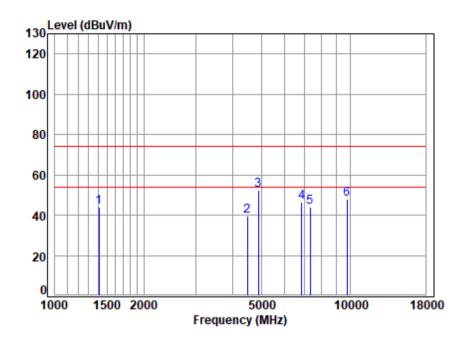


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900340102

Page: 41 of 77

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



Site : chamber

Condition: 3m HORIZONTAL

: 03401AT Mode : 2440 TX RSE

: BLE 2M Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
4	1410 51	2 02	24 77	20 27	F2 72	44.05	74.00	20.05	
1	1410.51	3.93	24.//	38.37	53.72	44.05	74.00	-29.95	реак
2	4482.15	7.11	33.81	35.74	34.23	39.41	74.00	-34.59	peak
3	4880.00	7.36	34.62	35.47	45.81	52.32	74.00	-21.68	peak
4	6855.06	8.82	35.51	35.48	37.69	46.54	74.00	-27.46	peak
5	7320.00	9.32	35.70	35.90	34.74	43.86	74.00	-30.14	peak
6	9760.00	12.47	37.38	37.43	35.30	47.72	74.00	-26.28	peak



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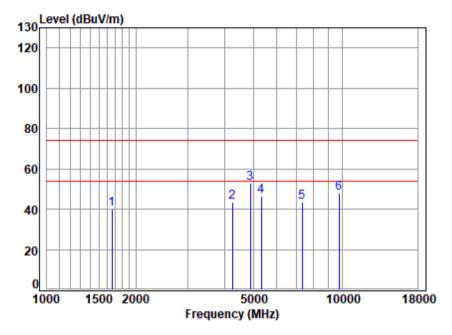


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900340102

Page: 42 of 77

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



Site : chamber Condition: 3m VERTICAL : 03401AT Mode : 2440 TX RSE

: BLE 2M Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
_									
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1663.14	4.28	26.27	38.41	48.08	40.22	74.00	-33.78	peak
2	4254.92	6.96	33.82	35.90	38.77	43.65	74.00	-30.35	peak
3	4880.00	7.36	34.62	35.47	46.54	53.05	74.00	-20.95	peak
4	5315.54	7.68	34.26	35.23	39.54	46.25	74.00	-27.75	peak
5	7320.00	9.32	35.70	35.90	34.19	43.31	74.00	-30.69	peak
6	9760.00	12.47	37.38	37.43	35.70	48.12	74.00	-25.88	peak



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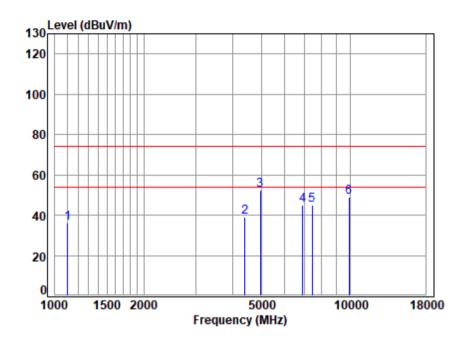


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900340102

Page: 43 of 77

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



Site : chamber

Condition: 3m HORIZONTAL

: 03401AT Mode : 2480 TX RSE

Note : BLE 2M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1103.26	3.40	23.71	38.32	47.10	35.89	74.00	-38.11	peak
2	4405.09	7.06	34.74	35.79	32.95	38.96	74.00	-35.04	peak
3	4960.00	7.41	34.56	35.42	46.03	52.58	74.00	-21.42	peak
4	6894.81	8.85	35.59	35.50	36.20	45.14	74.00	-28.86	peak
5	7440.00	9.46	35.96	36.02	35.54	44.94	74.00	-29.06	peak
6	9920.00	12.58	37.30	37.39	36.49	48.98	74.00	-25.02	peak



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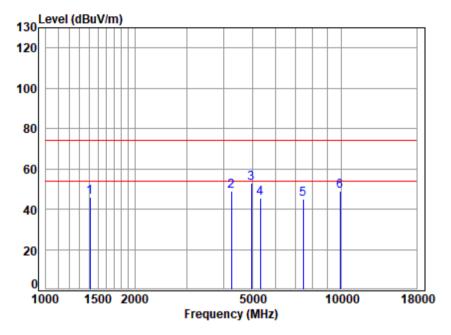


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900340102

Page: 44 of 77

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



Site : chamber Condition: 3m VERTICAL : 03401AT Mode : 2480 TX RSE

Note : BLE 2M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
_									
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1410.51	3.93	24.77	38.37	55.69	46.02	74.00	-27.98	peak
2	4254.92	6.96	33.82	35.90	43.90	48.78	74.00	-25.22	peak
3	4960.00	7.41	34.56	35.42	46.42	52.97	74.00	-21.03	peak
4	5330.93	7.69	34.32	35.22	38.79	45.58	74.00	-28.42	peak
5	7440.00	9.46	35.96	36.02	35.74	45.14	74.00	-28.86	peak
6	9920.00	12.58	37.30	37.39	36.58	49.07	74.00	-24.93	peak



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Report No.: SZCR240900340102

Page: 45 of 77

7.5 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

7.5.1 E.U.T. Operation

Operating Environment:

Humidity: 42.7 % RH Temperature: 23.4 °C 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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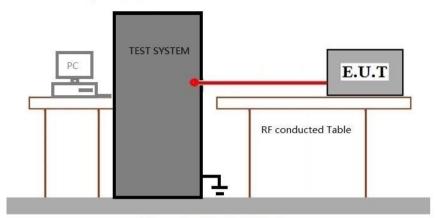


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900340102

Page: 46 of 77

7.5.3 Test Setup Diagram



Ground Reference Plane

7.5.4 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.: SZCR240900340102

Page: 47 of 77

7.6 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

7.6.1 E.U.T. Operation

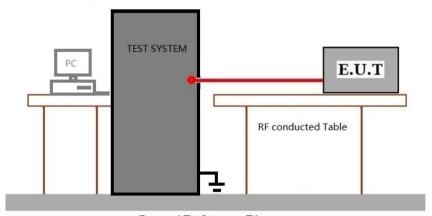
Operating Environment:

Atmospheric Pressure: 1020 mbar Temperature: 23.4 °C Humidity: 42.7 % RH

7.6.2 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.

7.6.3 Test Setup Diagram



Ground Reference Plane

7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900340102

Page: 48 of 77

7.7 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

7.7.1 E.U.T. Operation

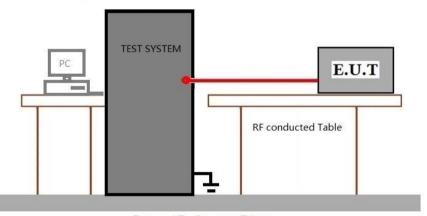
Operating Environment:

Atmospheric Pressure: 1020 mbar Temperature: 23.4 °C Humidity: 42.7 % RH

7.7.2 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.

7.7.3 Test Setup Diagram



Ground Reference Plane

7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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Report No.: SZCR240900340102

Page: 49 of 77

7.8 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).

7.8.1 E.U.T. Operation

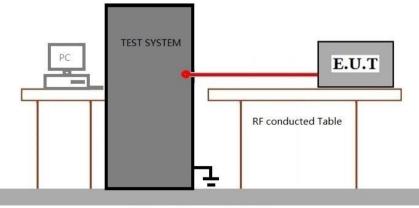
Operating Environment:

Temperature: 23.4 °C Humidity: 42.7 % 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.
Final test	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.8.3 Test Setup Diagram



Ground Reference Plane

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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240900340102

> Page: 50 of 77

7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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Report No.: SZCR240900340102

Page: 51 of 77

7.9 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).

7.9.1 E.U.T. Operation

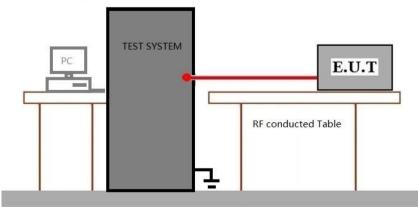
Operating Environment:

Temperature: 23.4 °C Humidity: 42.7 % 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.
Final test	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.9.3 Test Setup Diagram



Ground Reference Plane



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> Page: 52 of 77

7.9.4 Measurement Procedure and Data

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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240900340102

> Page: 53 of 77

Test Setup Photo 8

Refer to Appendix - Test Setup Photo for SZCR2409003401AT

EUT Constructional Details (EUT Photos) 9

Refer to Appendix - External and Internal Photos for SZCR2409003401AT



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240900340102

> Page: 54 of 77

10 Appendix

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

	Ant1								
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)		
	2402	0.410	0.627	65.39	1.84	1.20			
1M	SISO	2440	0.410	0.627	65.39	1.84	1.22		
		2480	0.410	0.627	65.39	1.84	1.16		
		2402	0.213	0.626	34.03	4.68	0.64		
2M	SISO	2440	0.214	0.627	34.13	4.67	0.61		
		2480	0.214	0.627	34.13	4.67	0.61		



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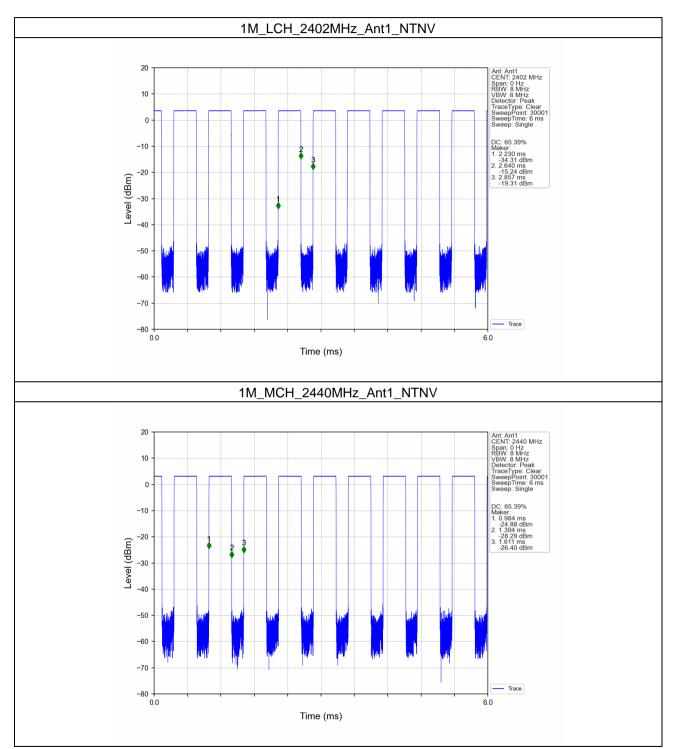


SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240900340102

> Page: 55 of 77

1.2 Test Graph

1.2.1 Ant1





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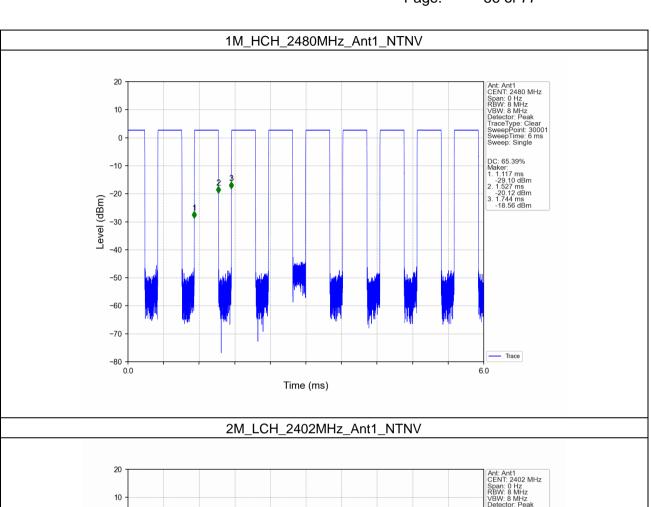
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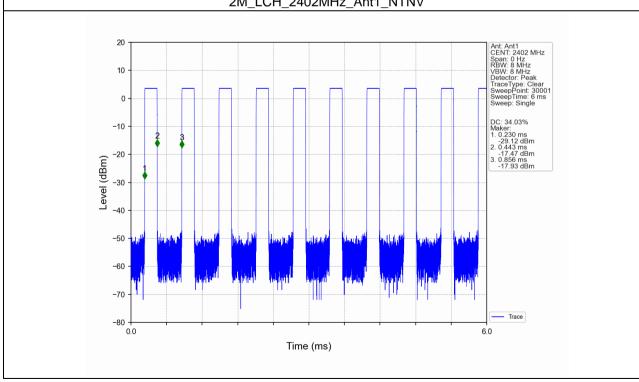


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900340102

Page: 56 of 77







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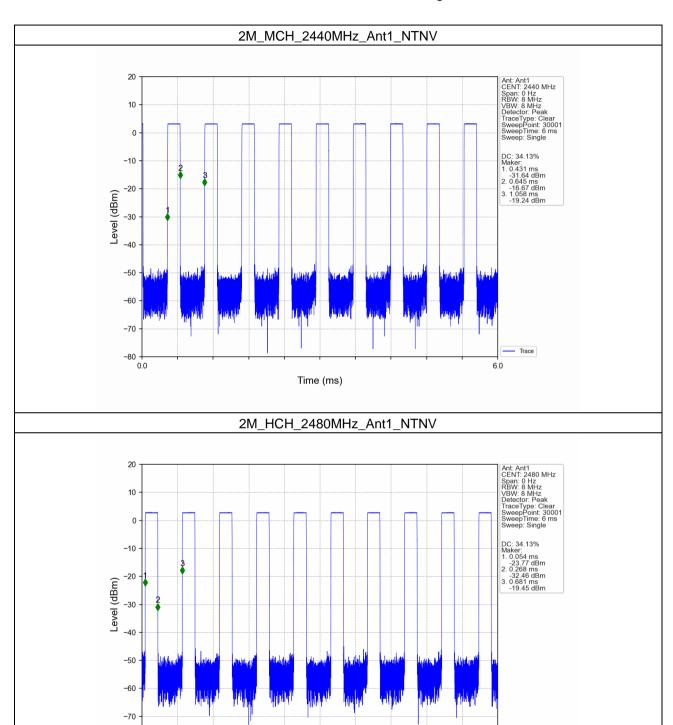
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Report No.: SZCR240900340102

Page: 57 of 77





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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240900340102

> Page: 58 of 77

2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied B	\/a.rd; at	
				Result	Limit	Verdict
		2402	1	1.042	/	Pass
1M	SISO	2440	1	1.047	/	Pass
		2480	1	1.049	/	Pass
2M SIS		2402	1	2.054	/	Pass
	SISO	2440	1	2.061	/	Pass
		2480	1	2.059	/	Pass

2.1.2 6dB BW

Mode	TX	Frequency (MHz)	ANIT	6dB Bandv	\/ad;a.t			
Mode	Type		ANT	Result	Limit	Verdict		
		2402	1	0.689	>=0.5	Pass		
1M	SISO	2440	1	0.693	>=0.5	Pass		
		2480	1	0.714	>=0.5	Pass		
	SISO		2402	2402	1	1.164	>=0.5	Pass
2M		2440	1	1.171	>=0.5	Pass		
		2480	1	1.163	>=0.5	Pass		



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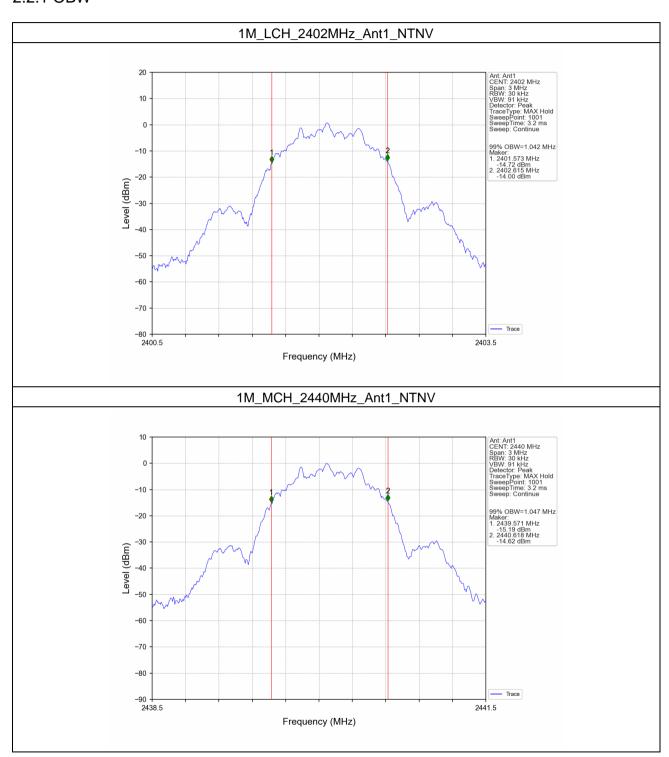


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Report No.: SZCR240900340102

Page: 59 of 77

2.2 Test Graph 2.2.1 OBW





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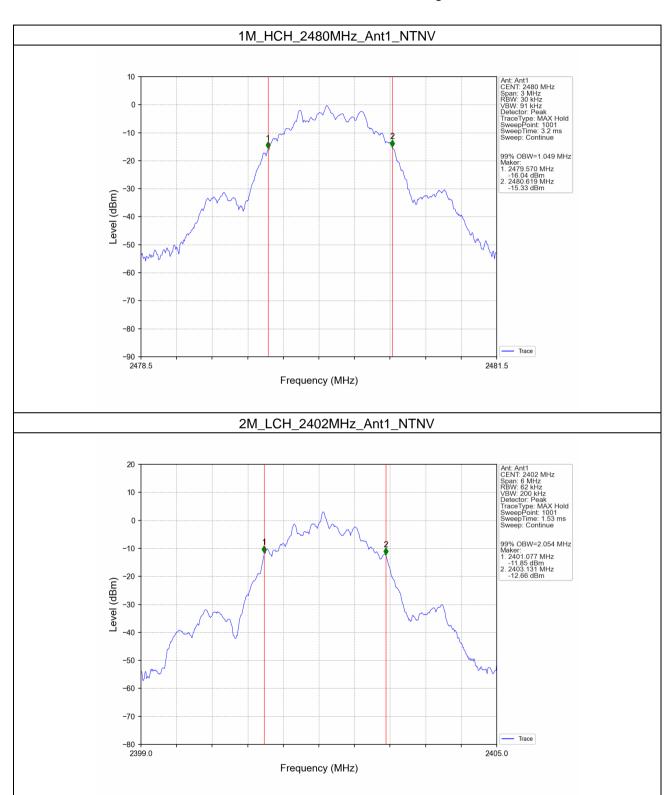
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Report No.: SZCR240900340102

Page: 60 of 77





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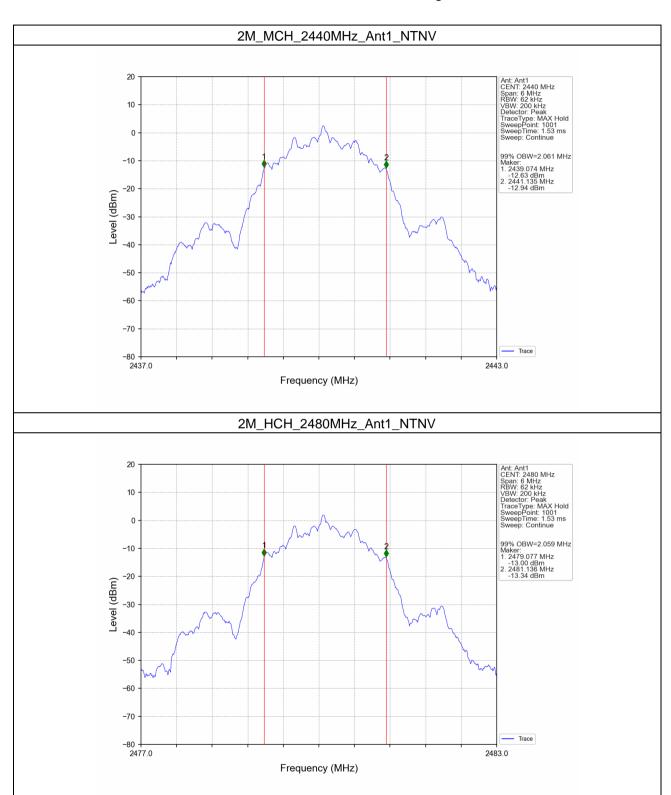
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Report No.: SZCR240900340102

Page: 61 of 77





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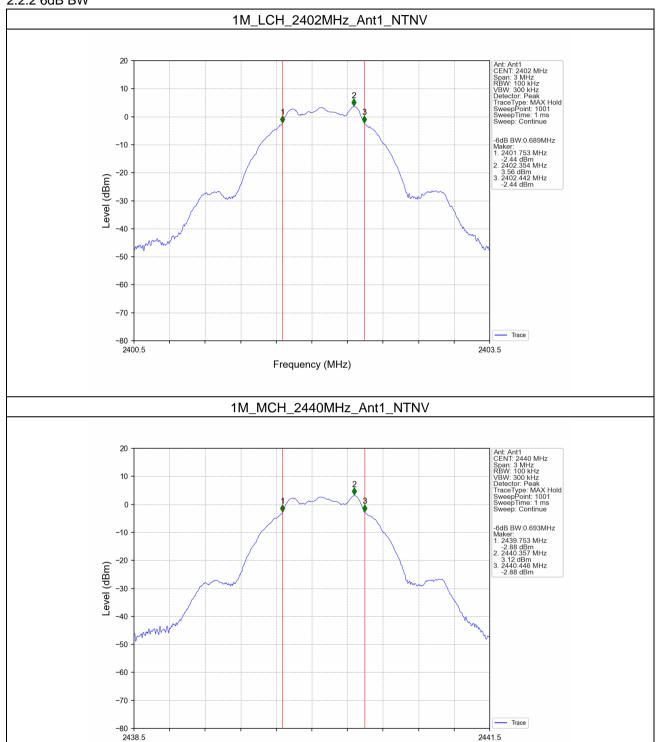


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Report No.: SZCR240900340102

Page: 62 of 77

2.2.2 6dB BW





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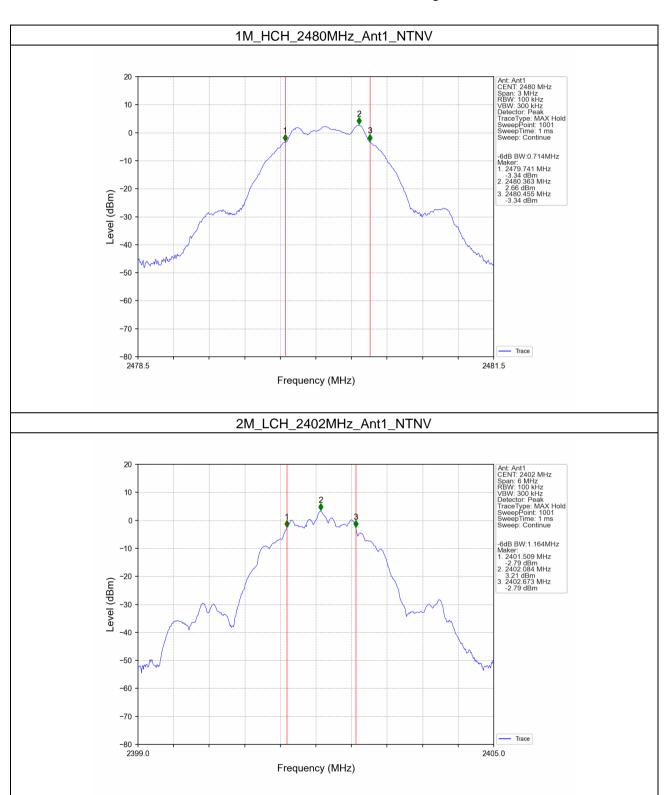
Frequency (MHz)



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Report No.: SZCR240900340102

Page: 63 of 77





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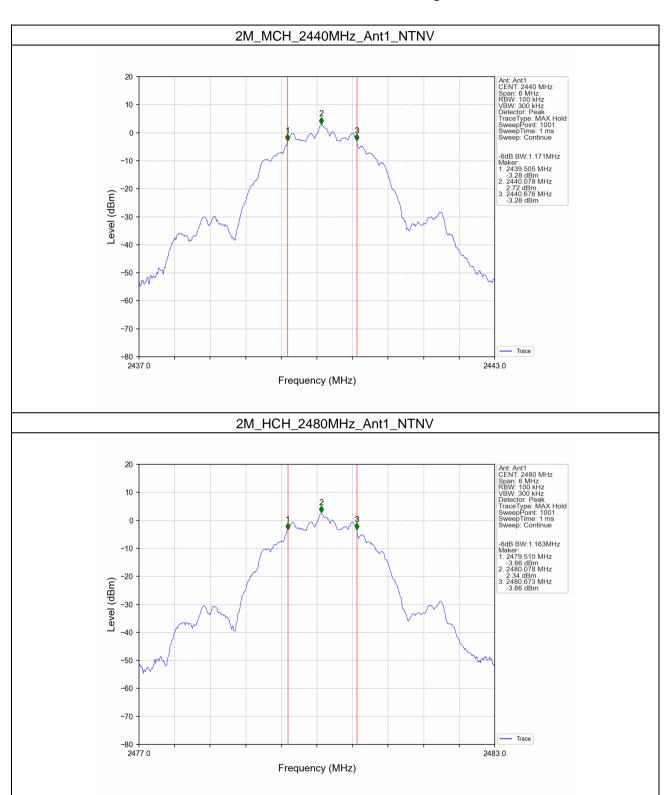
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Report No.: SZCR240900340102

Page: 65 of 77

3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX	Frequency	Maximum Peak Conduc	Vordict		
Mode	Type	(MHz)	ANT1	Limit	Verdict	
		2402	1.23	<=30	Pass	
1M	SISO	2440	0.67	<=30	Pass	
		2480	0.35	<=30	Pass	
	SISO		2402	1.29	<=30	Pass
2M		2440	0.78	<=30	Pass	
		2480	0.40	<=30	Pass	

4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

Mode	TX	Frequency (MHz)	Maximum PS	Vardiat	
Mode	Type		ANT1	Limit	Verdict
		2402	-13.73	<=8	Pass
1M	SISO	2440	-14.42	<=8	Pass
		2480	-14.93	<=8	Pass
		2402	-16.04	<=8	Pass
2M	SISO	2440	-16.31	<=8	Pass
		2480	-16.78	<=8	Pass



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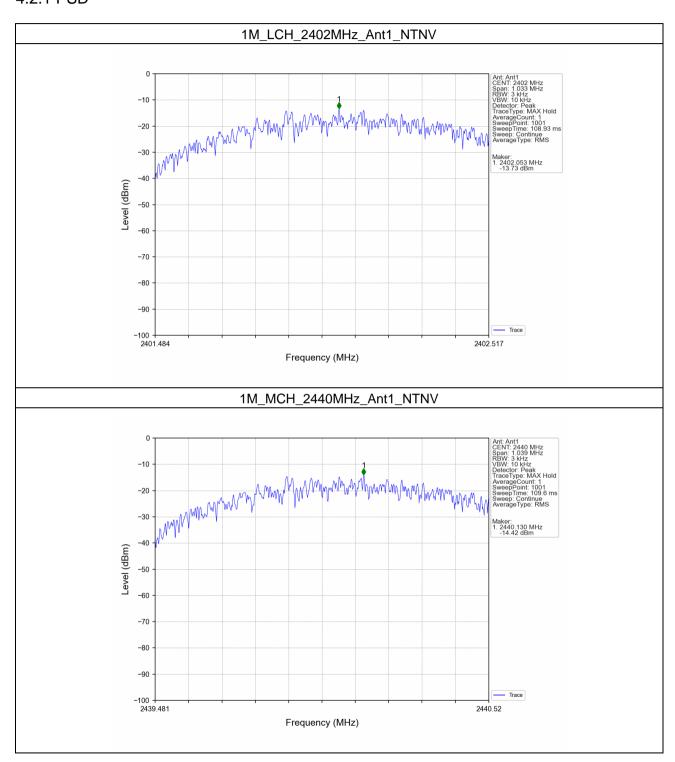
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4.2 Test Graph 4.2.1 PSD





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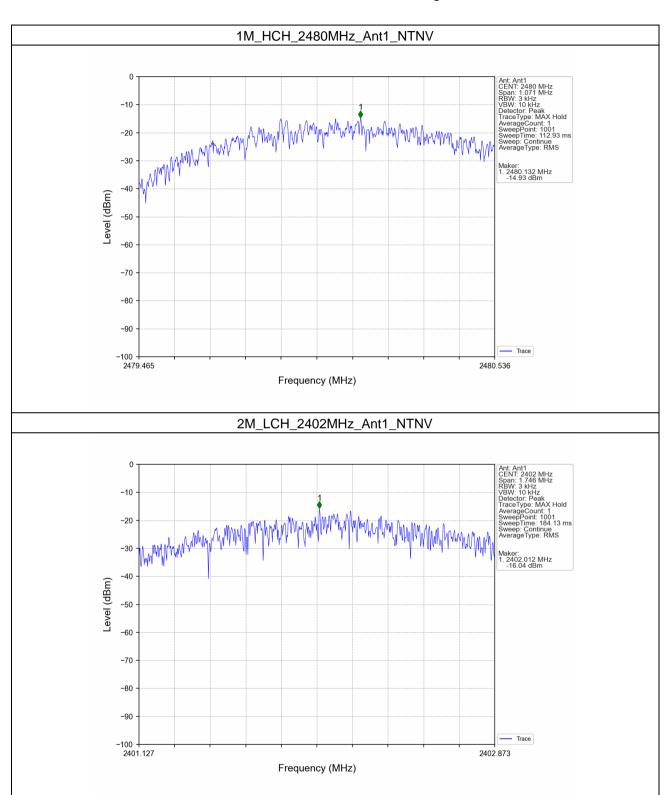
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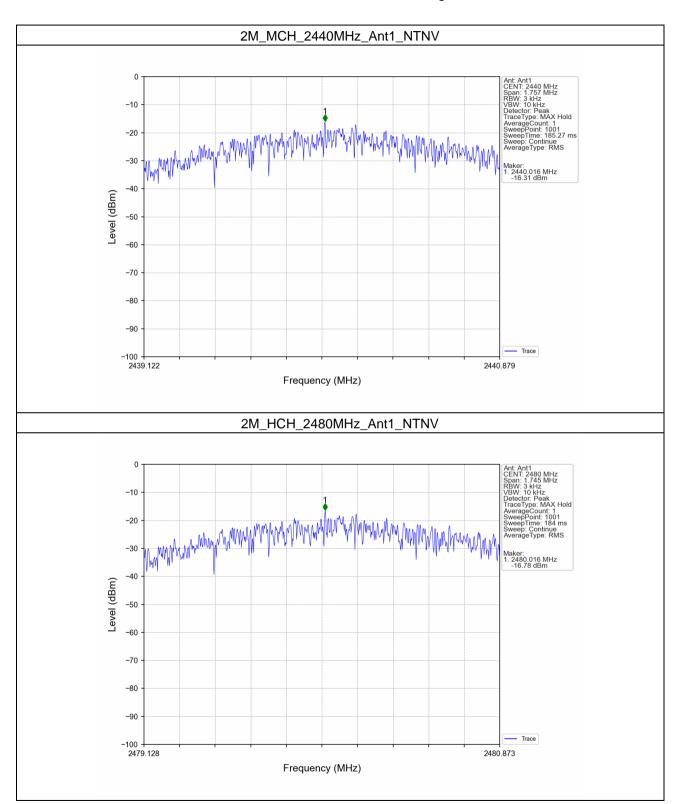
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900340102

Page: 69 of 77

5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
	SISO	2402	1	1.13
1M		2440	1	0.56
		2480	1	0.25
	SISO	2402	1	0.99
2M		2440	1	0.44
		2480	1	0.03

5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
		2402	1	1.13	-18.87	Pass
1M	SISO	2440	1	1.13	-18.87	Pass
		2480	1	1.13	-18.87	Pass
		2402	1	0.99	-19.01	Pass
2M	SISO	2440	1	0.99	-19.01	Pass
		2480	1	0.99	-19.01	Pass



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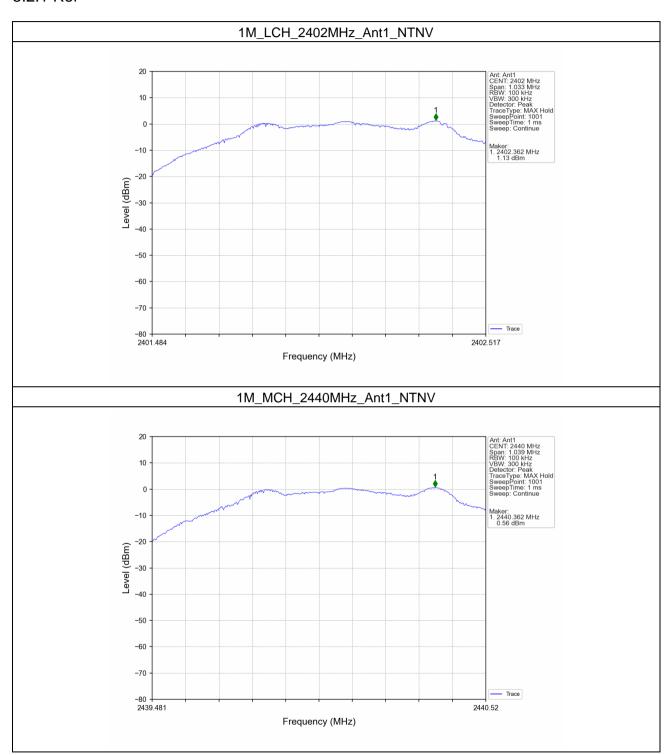


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Report No.: SZCR240900340102

Page: 70 of 77

5.2 Test Graph 5.2.1 Ref





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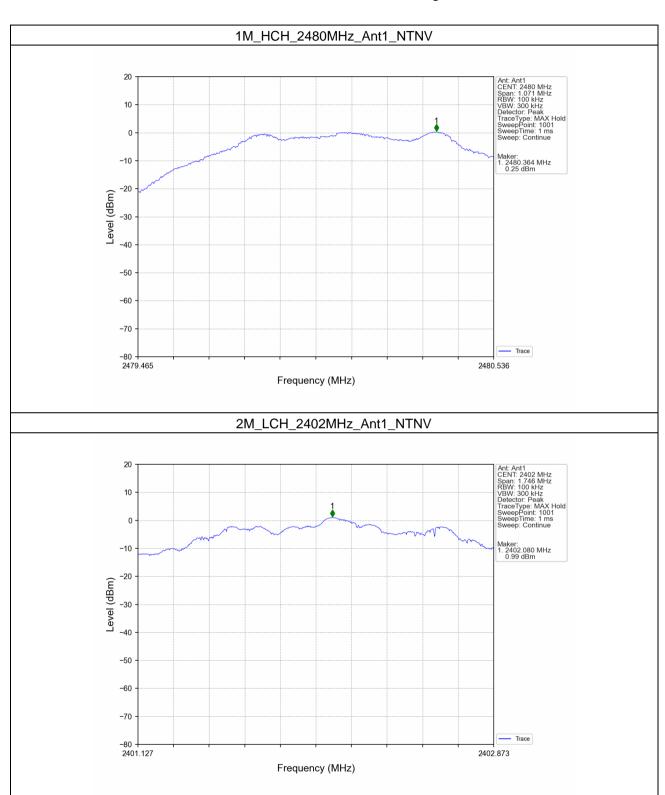
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900340102

Page: 71 of 77





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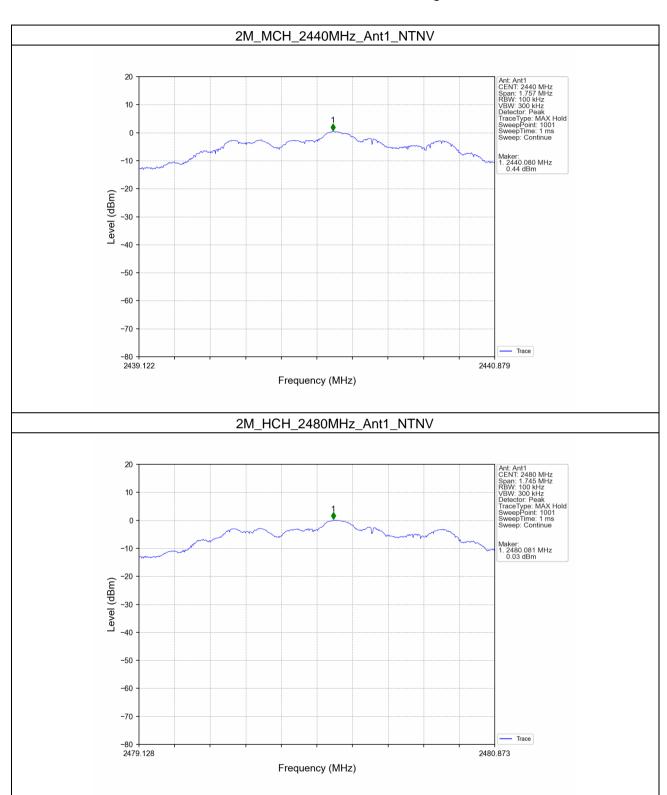
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Report No.: SZCR240900340102

Page: 72 of 77





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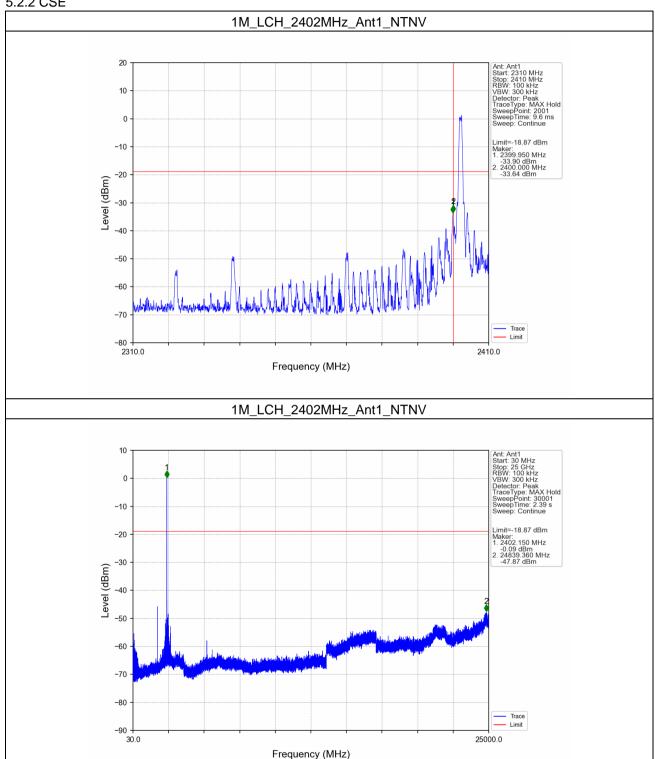


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900340102

Page: 73 of 77

5.2.2 CSE





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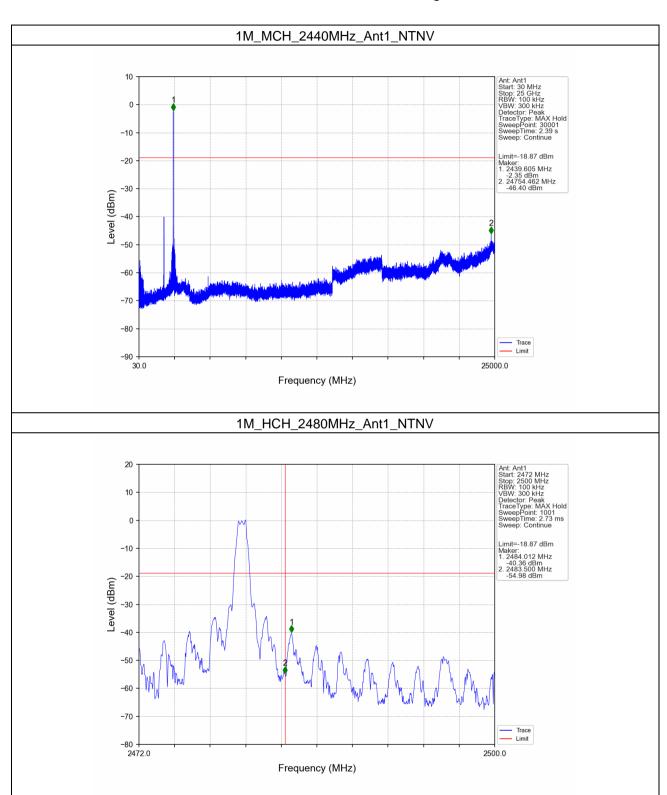
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900340102

Page: 74 of 77





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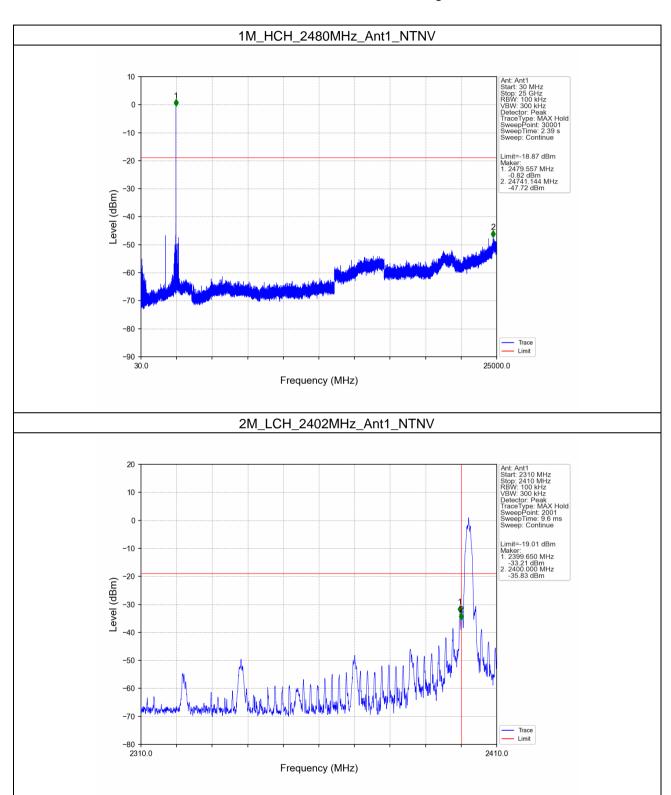
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Report No.: SZCR240900340102

Page: 75 of 77





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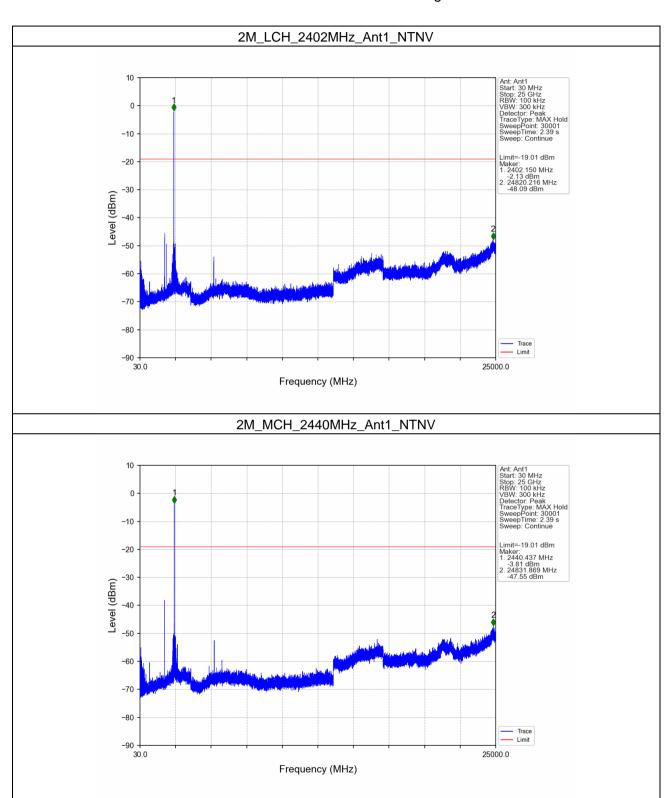
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Report No.: SZCR240900340102

Page: 76 of 77





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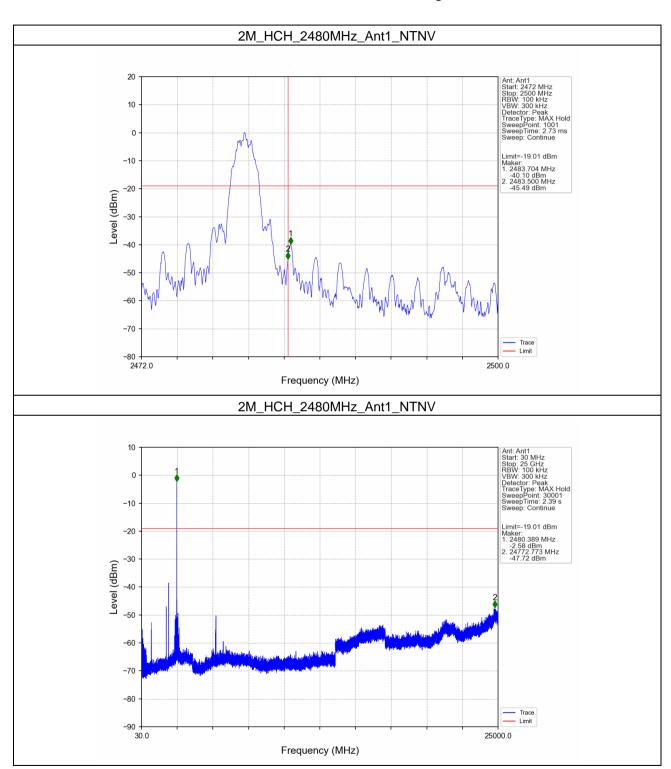
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Report No.: SZCR240900340102

Page: 77 of 77



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