

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

Report No.: SZCR230300076502

Page: 1 of 56

TEST REPORT

Application No.: SZCR2303000765AT **Applicant:** Merlyn Mind Inc.

Address of Applicant: 405 Lexington Avenue, Suite 3504, NEW YORK, New York 10174 United

States

Manufacturer: Merlyn Mind Inc.

Address of Manufacturer: 405 Lexington Avenue, Suite 3504, NEW YORK, New York 10174 United

States

Factory: 1. Huizhou C&D Industry Co., Ltd

2. Kingsun Network Devices Vietnam Co.,Ltd

Address of Factory: 1. C&D Industrial Park, Liantangmian, Sanhe Str., Huiyang, Huizhou

(516213), China.

2. No B7-1, 1st Road, Hai son(GD3+4) industry park. Duc hoa ha ward, Duc

hoa district, Long an, Vietnam

Equipment Under Test (EUT):

EUT Name: ActivPanel Merlyn Remote

Model No.: AP-MM-RCU

Trade Mark: ActivPanel; MERLYN MIND;

FCC ID: 2AYDXAP-MM-RCU

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

Date of Receipt: 2023-03-22

Date of Test: 2023-03-31 to 2023-04-17

Date of Issue: 2023-04-17

Test Result: Pass*

Keny Xu EMC Laboratory Manager

Keny. xu



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



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

Report No.: SZCR230300076502

Page: 2 of 56

	Revision Record						
Version	Version Chapter Date Modifier Rema						
01		2023-04-17		Original			

Authorized for issue by:		
	Darren Yvan	
	Darren Yuan/Project Engineer	-
	Exic Fu	
	Eric Fu/Reviewer	-



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

Report No.: SZCR230300076502

Page: 3 of 56

2 **Test Summary**

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

Radio Spectrum Matter Part					
Item	Standard	Method	Requirement	Result	
Conducted Peak Output Power		ANSI C63.10 (2013) Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass	
Minimum 6dB Bandwidth		ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass	
Power Spectrum Density		ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass	
Conducted Band Edges Measurement		ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass	
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass	
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass	
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass	
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass	



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

Report No.: SZCR230300076502

Page: 4 of 56

3 **Contents**

		Pa	ıge
1	Cov	er Page	1
2	Test	Summary	3
3	Con	tents	4
4	Gen	eral Information	6
	4.1	Details of E.U.T	6
	4.2	Description of Support Units	
	4.3	Measurement Uncertainty	6
	4.4	Test Location	
	4.5	Test Facility	
	4.6	Deviation from Standards	
	4.7	Abnormalities from Standard Conditions	7
5	Equi	ipment List	8
_	- ·		
6		io Spectrum Technical Requirement	
	6.1	Antenna Requirement	
	6.1.1		
	6.1.2		
7	Radi	io Spectrum Matter Test Results	.12
	7.1	Conducted Peak Output Power	
	7.1.1	F	
	7.1.2	-	
	7.1.3	1 0	
	7.1.4		
	7.2 7.2.1	Minimum 6dB Bandwidth	
	7.2.1	F	
	7.2.3	The same of the sa	
	7.2.4	1 3	
	7.3	Power Spectrum Density	
	7.3.1	E.U.T. Operation	.15
		2 Test Mode Description	.15
	7.3.3		
	7.3.4		
	7.4	Conducted Band Edges Measurement	
	7.4.1	I control of the cont	
	7.4.2 7.4.3	·	
	7.4.3 7.4.4	1 0	
	7.4.4 7.5	Conducted Spurious Emissions	
	7.5.1	·	
	, .0. 1		



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

Report No.: SZCR230300076502

Page: 5 of 56

7	.5.2	Test Mode Description	17
7	.5.3	Test Setup Diagram	17
7	.5.4	Measurement Procedure and Data	
7.6	R	adiated Emissions which fall in the restricted bands	18
7	.6.1	E.U.T. Operation	18
7	.6.2	Test Mode Description	18
7	.6.3	Test Setup Diagram	19
7	.6.4	Measurement Procedure and Data	19
7.7	R	adiated Spurious Emissions Below 1GHz	24
7	.7.1	E.U.T. Operation	24
7	.7.2	Test Mode Description	
7	.7.3	Test Setup Diagram	24
7	.7.4	Measurement Procedure and Data	
7.8	R	adiated Spurious Emissions Above 1GHz	28
7	.8.1	E.U.T. Operation	
7	.8.2	Test Mode Description	
7	.8.3	Test Setup Diagram	
7	.8.4	Measurement Procedure and Data	29
8 T	est S	etup Photo	36
9 E	UT C	onstructional Details (EUT Photos)	36
10 A	ppen	dix	37



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

Report No.: SZCR230300076502

Page: 6 of 56

General Information

Details of E.U.T.

Power supply:	DC 3V (2*1.5V) "AA" Battery
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V4.2 LE
Data Rate:	1Mbps
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Antenna Type:	PCB Antenna
Antenna Gain:	-9.63dBi

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.						

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Peak Output Power	± 0.75dB
Minimum 6dB Bandwidth	± 3%
Power Spectrum Density	± 2.84dB
Conducted Band Edges Measurement	± 0.75dB
Conducted Spurious Emissions	± 0.75dB
Radiated Emissions which fall in the restricted bands	± 4.5dB (Below 1GHz);± 4.8dB (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	± 4.5dB
Radiated Spurious Emissions Above 1GHz	± 4.8dB

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cispr/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/0 Aug01,2022

Report No.: SZCR230300076502

Page: 7 of 56

4.4 Test Location

All tests were performed at:

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

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

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

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

Abnormalities from Standard Conditions

None



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

Report No.: SZCR230300076502

Page: 8 of 56

Equipment List 5

Conducted Peak Output Power						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19	
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20	
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30	

Minimum 6dB Bandwidt	h				
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30

Power Spectrum Densit	у				
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30

Conducted Band Edges Measurement						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19	
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20	
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30	



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

Report No.: SZCR230300076502

Page: 9 of 56

Conducted Spurious Emissions						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19	
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20	
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30	

Radiated Emissions wh	adiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2022-04-02	2025-04-01	
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19	
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2022-07-24	2024-07-23	
Microwave system amplifier	Agilent	83017A	SEM005-25	2022-09-21	2023-09-20	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM026-01	2022-07-08	2023-07-07	
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2022-08-10	2024-08-09	
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2023-03-20	2024-03-19	

Radiated Spurious Emis	adiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2021-11-30	2023-11-29	
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020-07-19	2023-07-18	
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2022-10-20	2023-10-19	
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2021-09-17	2023-09-16	
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2023-03-20	2024-03-19	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM025-01	2022-07-08	2023-07-07	



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

Report No.: SZCR230300076502

Page: 10 of 56

Radiated Spurious Emis	adiated Spurious Emissions Above 1GHz				
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2022-04-02	2025-04-01
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2022-07-24	2024-07-23
Microwave system amplifier	Agilent	83017A	SEM005-25	2022-09-21	2023-09-20
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2022-07-08	2023-07-07

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2022-09-04	2023-09-03
Humidity/ Temperature Indicator	Anymetre	TH101B	SEM002-09	2022-09-04	2023-09-03
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2023-03-23	2024-03-22



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

Report No.: SZCR230300076502

Page: 11 of 56

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 integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is -9.63dBi.

Antenna location: Refer to internal photo.



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

Report No.: SZCR230300076502

Page: 12 of 56

Radio Spectrum Matter Test Results

7.1 Conducted Peak Output Power

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

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
	1 for ≥50 hopping channels
902-928	0.25 for 25≤ hopping channels <50
	1 for digital modulation
	1 for ≥75 non-overlapping hopping channels
2400-2483.5	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Humidity: 52.6 % RH Atmospheric Pressure: 1015 mbar

7.1.2 Test Mode Description

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



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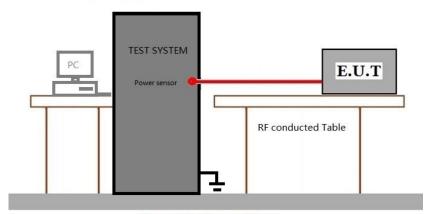


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230300076502

Page: 13 of 56

7.1.3 Test Setup Diagram



Ground Reference Plane

7.1.4 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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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230300076502

Page: 14 of 56

7.2 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)
Test Method: ANSI C63.10 (2013) Section 11.8.1

Limit:

≥500 kHz

7.2.1 E.U.T. Operation

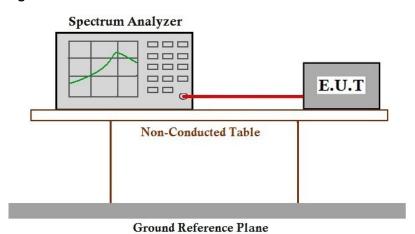
Operating Environment:

Temperature: 23.6 °C Humidity: 52.6 % RH Atmospheric Pressure: 1015 mbar

7.2.2 Test Mode Description

		_ F		
Pre-scan / Final test	Mode Code	Description		
Final test	00	TX mode (BLE)_Keep the EUT in continuously transmitting mode with GFSK modulation.		

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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

Report No.: SZCR230300076502

Page: 15 of 56

7.3 Power Spectrum Density

47 CFR Part 15, Subpart C 15.247(e) Test Requirement ANSI C63.10 (2013) Section 11.10.2 Test Method:

Measurement Distance: 3m

Limit:

≤8dBm in any 3 kHz band during any time interval of continuous transmission

7.3.1 E.U.T. Operation

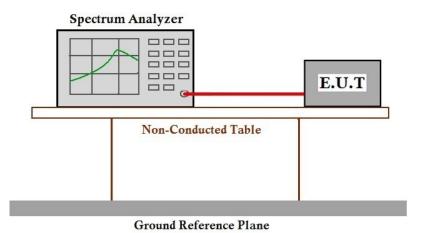
Operating Environment:

Temperature: 23.6 °C Humidity: 52.6 % RH Atmospheric Pressure: 1015 mbar

7.3.2 Test Mode Description

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

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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Report No.: SZCR230300076502

Page: 16 of 56

7.4 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d) ANSI C63.10 (2013) Section 11.13.3.2 Test Method:

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c).

7.4.1 E.U.T. Operation

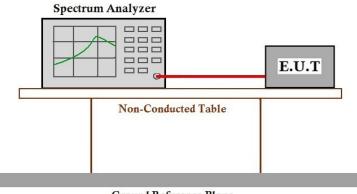
Operating Environment:

Temperature: 23.6 °C Humidity: 52.6 % RH Atmospheric Pressure: 1015 mbar

7.4.2 Test Mode Description

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

7.4.3 Test Setup Diagram



Ground Reference Plane

7.4.4 Measurement Procedure and Data

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

Report No.: SZCR230300076502

Page: 17 of 56

7.5 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d) ANSI C63.10 (2013) Section 11.11 Test Method:

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c).

7.5.1 E.U.T. Operation

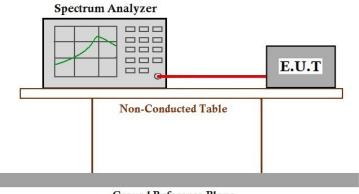
Operating Environment:

Temperature: 23.6 °C Humidity: 52.6 % RH Atmospheric Pressure: 1015 mbar

7.5.2 Test Mode Description

	re-scan / inal test	Mode Code	Description
Fi	inal test	00	TX mode (BLE)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.5.3 Test Setup Diagram



Ground Reference Plane

7.5.4 Measurement Procedure and Data

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

Report No.: SZCR230300076502

Page: 18 of 56

7.6 Radiated Emissions which fall in the restricted bands

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

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

Measurement Distance: 3m

Limit:

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

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

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: Humidity: 61.5 % RH 20.7 °C Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

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



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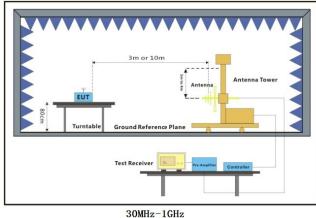


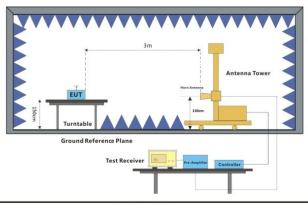
SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230300076502

Page: 19 of 56

7.6.3 Test Setup Diagram





Above 1GHz

7.6.4 Measurement Procedure and Data

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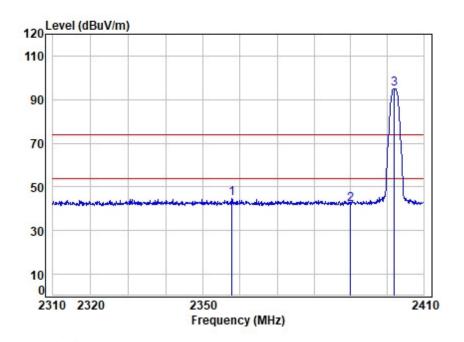


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230300076502

Page: 20 of 56

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



Site : chamber

Condition: 3m HORIZONTAL : 00765AT/00766AT Job No Mode : 2402 Band edge

Note : BLE

	Freq				Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		2357.771	4.22	28.63	35.65	47.30	44.50	74.00	-29.50	peak
2		2390.000	4.25	28.76	35.64	44.64	42.01	74.00	-31.99	peak
3	q	2402.000	4.26	28.81	35.64	97.65	95.08	74.00	21.08	peak



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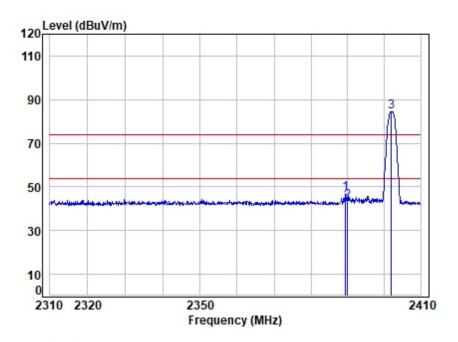


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230300076502

Page: 21 of 56

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



Site : chamber

Condition: 3m VERTICAL Job No : 00765AT/00766AT

Mode : 2402 Band edge

Note : BLE

	Freq				Preamp Factor					
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	-
1		2389.457	4.25	28.76	35.64	49.44	46.81	74.00	-27.19	peak
2		2390.000	4.25	28.76	35.64	46.15	43.52	74.00	-30.48	peak
3	q	2402.000	4.26	28.81	35.64	87.00	84.43	74.00	10.43	peak



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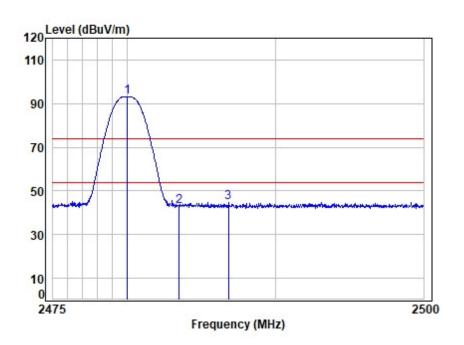


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230300076502

Page: 22 of 56

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



: chamber Site

Condition: 3m HORIZONTAL : 00765AT/00766AT Job No Mode : 2480 Band edge

Note : BLE

	Freq			Preamp Factor						
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	l q 2480.000	4.34	29.28	35.61	95.02	93.03	74.00	19.03	peak	
1	2 2483.500	4.34	29.30	35.61	45.04	43.07	74.00	-30.93	peak	
:	3 2486.819	4.35	29.32	35.61	46.84	44.90	74.00	-29.10	peak	



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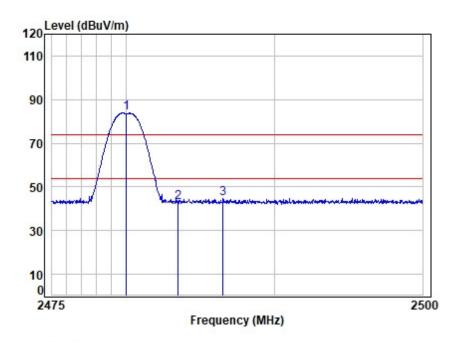


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230300076502

Page: 23 of 56

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



: chamber Site

Condition: 3m VERTICAL

Job No : 00765AT/00766AT Mode : 2480 Band edge

Note : BLE

		Freq			Preamp Factor					
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	q	2480.000	4.34	29.28	35.61	85.81	83.82	74.00	9.82	peak
2		2483.500	4.34	29.30	35.61	44.80	42.83	74.00	-31.17	peak
3		2486.519	4.35	29.32	35.61	46.58	44.64	74.00	-29.36	peak



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

Report No.: SZCR230300076502

Page: 24 of 56

7.7 Radiated Spurious Emissions Below 1GHz

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

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

Measurement Distance: 3m

Limit:

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

7.7.1 E.U.T. Operation

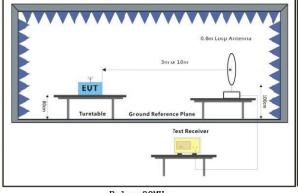
Operating Environment:

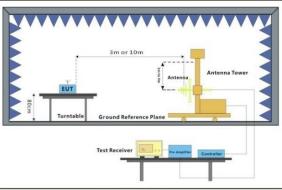
Temperature: 23.3 °C Humidity: 45.6 % RH Atmospheric Pressure: 1015 mbar

7.7.2 Test Mode Description

	100t mode 2000.pt.o.							
Pre-scan / Final test	Mode Code	Description						
Final test	00	TX mode (BLE)_Keep the EUT in continuously transmitting mode with GFSK modulation.						

7.7.3 Test Setup Diagram





Below 30MHz 30MHz-1GHz



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

Report No.: SZCR230300076502

Page: 25 of 56

7.7.4 Measurement Procedure and Data

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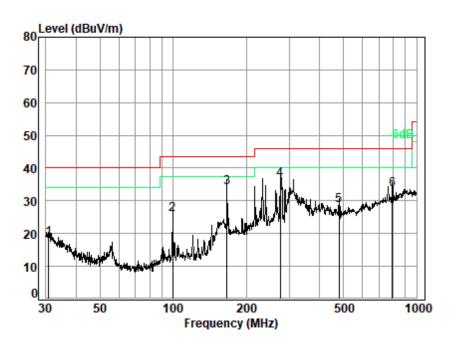


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230300076502

Page: 26 of 56

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



: chamber Site

Condition: 3m HORIZONTAL

Job No. : 00765AT

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	30.85	20.93	0.63	27.23	24.09	18.42	40.00	-21.58	QP
2	99.53	13.01	1.14	27.00	38.59	25.74	43.50	-17.76	QP
3 q	166.65	13.84	1.51	26.73	45.44	34.06	43.50	-9.44	QP
4	276.12	17.90	2.02	26.30	42.81	36.43	46.00	-9.57	QP
5	480.53	23.19	2.75	26.74	29.43	28.63	46.00	-17.37	QP
6	796.18	26.97	3.65	26.32	29.24	33.54	46.00	-12.46	QP



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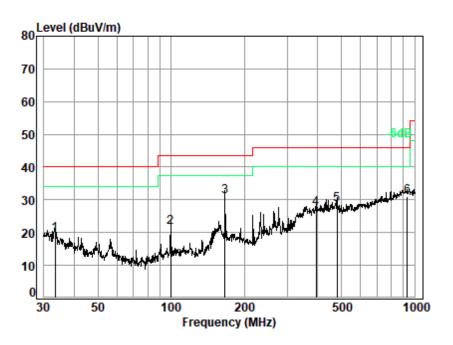


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230300076502

Page: 27 of 56

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



Site : chamber Condition: 3m VERTICAL

Job No. : 00765AT

Test Mode: 00

			Ant Cable Preamp Re- Freq Factor Loss Factor Leve						
_	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	33.33	19.32	0.64	27.22	26.77	19.51	40.00	-20.49	QP
2	99.53	13.01	1.14	27.00	34.41	21.56	43.50	-21.94	QР
3 q	166.65	13.84	1.51	26.73	42.34	30.96	43.50	-12.54	QP
4	393.47	21.57	2.46	26.48	29.72	27.27	46.00	-18.73	QP
5	480.53	23.19	2.75	26.74	29.54	28.74	46.00	-17.26	QP
6	935.55	28.55	4.11	25.76	24.19	31.09	46.00	-14.91	OP



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

Report No.: SZCR230300076502

Page: 28 of 56

7.8 Radiated Spurious Emissions Above 1GHz

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

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

Measurement Distance: 3m

Limit:

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

7.8.1 E.U.T. Operation

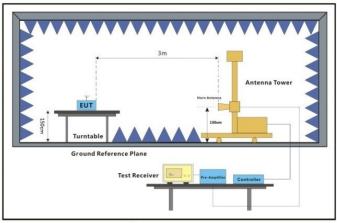
Operating Environment:

Temperature: 20.7 °C Atmospheric Pressure: 1010 mbar Humidity: 61.4 % RH

7.8.2 Test Mode Description

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

7.8.3 Test Setup Diagram



Above 1GHz



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

Report No.: SZCR230300076502

29 of 56 Page:

7.8.4 Measurement Procedure and Data

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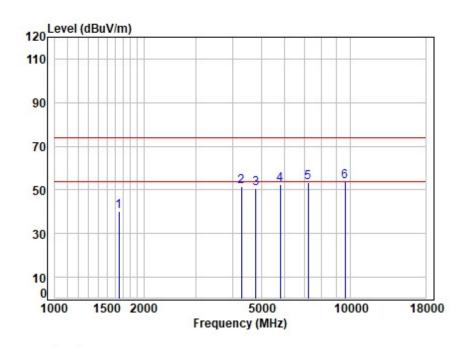


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230300076502

Page: 30 of 56

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



: chamber Site

Condition: 3m HORIZONTAL : 00765AT/00766AT Job No Mode : 2402 TX RSE

: BLE

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	-	MHz	dB		dB	-dRuV	dBu\//m	dBu\//m	dB	
		МПД	ub	ub/III	ub	ubuv	ubuV/III	ubuV/III	ub	
1		1648.778	3.43	26.70	36.52	46.38	39.99	74.00	-34.01	peak
2		4291.977	6.57	33.60	34.54	46.05	51.68	74.00	-22.32	peak
3		4804.000	7.04	33.82	34.86	44.48	50.48	74.00	-23.52	peak
4		5797.032	7.98	34.59	35.03	44.98	52.52	74.00	-21.48	peak
5		7206.000	8.52	35.80	35.95	45.15	53.52	74.00	-20.48	peak
6	q	9608.000	10.39	37.10	35.55	41.71	53.65	74.00	-20.35	peak



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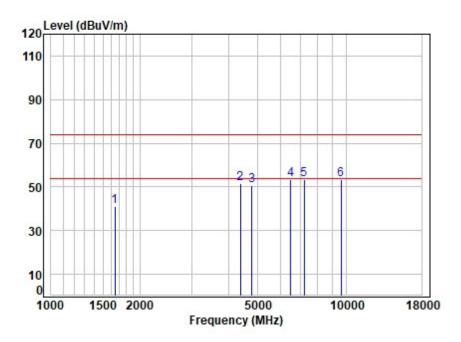


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230300076502

Page: 31 of 56

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



: chamber Site

Condition: 3m VERTICAL Job No : 00765AT/00766AT

Mode : 2402 TX RSE

: BLE

		Freq			Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1648.778	3.43	26.70	36.52	47.60	41.21	74.00	-32.79	peak
2		4392.376	6.67	33.52	34.60	45.75	51.34	74.00	-22.66	peak
3		4804.000	7.04	33.82	34.86	44.49	50.49	74.00	-23.51	peak
4		6488.754	8.24	35.48	35.48	44.92	53.16	74.00	-20.84	peak
5	q	7206.000	8.52	35.80	35.95	45.22	53.59	74.00	-20.41	peak
6		9608 000	10 39	37 10	35 55	11 12	53 36	7/ 00	-20 64	neak



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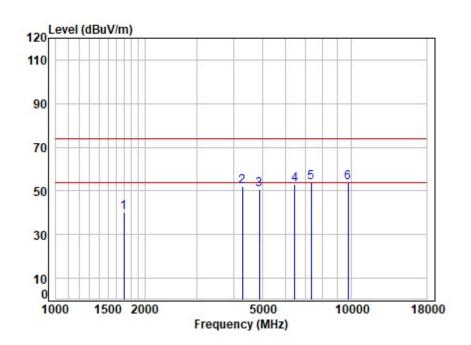


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230300076502

Page: 32 of 56

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



: chamber Site

Condition: 3m HORIZONTAL : 00765AT/00766AT Job No Mode : 2440 TX RSE

: BLE

		Freq			Preamp Factor					
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1702.042	3.49	26.80	36.40	46.29	40.18	74.00	-33.82	peak
2		4291.977	6.57	33.60	34.54	46.61	52.24	74.00	-21.76	peak
3		4880.000	7.11	34.06	34.91	44.25	50.51	74.00	-23.49	peak
4		6451.353	8.24	35.40	35.45	44.96	53.15	74.00	-20.85	peak
5	q	7320.000	8.62	35.90	35.97	45.28	53.83	74.00	-20.17	peak
6		9760 000	10 /5	37 20	35 56	11 67	53 76	7/ 00	-20 24	neak



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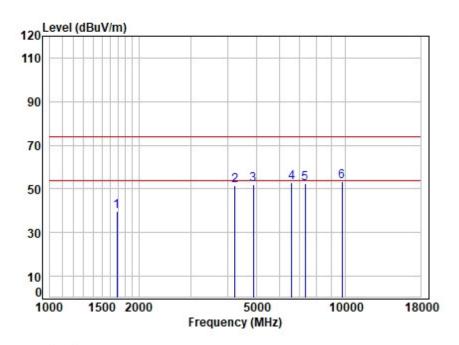


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Report No.: SZCR230300076502

Page: 33 of 56

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



: chamber Site

Condition: 3m VERTICAL Job No : 00765AT/00766AT

Mode : 2440 TX RSE

: BLE

			_							
		Freq			Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1687.347	3.47	26.77	36.43	46.06	39.87	74.00	-34.13	peak
2		4230.396	6.51	33.52	34.49	45.80	51.34	74.00	-22.66	peak
3		4880.000	7.11	34.06	34.91	45.54	51.80	74.00	-22.20	peak
4		6583.209	8.26	35.60	35.56	44.43	52.73	74.00	-21.27	peak
5		7320.000	8.62	35.90	35.97	44.12	52.67	74.00	-21.33	peak
6	а	9760 000	10 /5	37 20	35 56	11 36	53 //5	7/ 00	-20 55	neak



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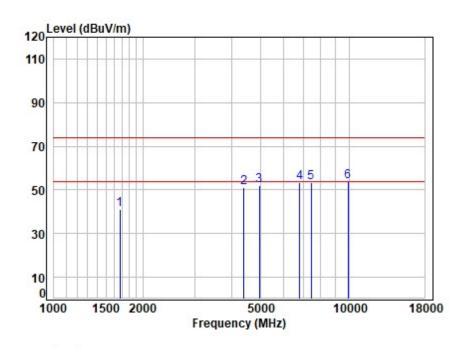


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Report No.: SZCR230300076502

Page: 34 of 56

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



: chamber Site

Condition: 3m HORIZONTAL : 00765AT/00766AT Job No Mode : 2480 TX RSE

: BLE

		_							
	Freq			Preamp Factor				Over Limit	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	-
1	1672.779	3.46	26.75	36.46	47.17	40.92	74.00	-33.08	peak
2	4405.090	6.68	33.50	34.61	45.67	51.24	74.00	-22.76	peak
3	4960.000	7.18	34.22	34.96	45.45	51.89	74.00	-22.11	peak
4	6795.879	8.29	35.50	35.74	45.27	53.32	74.00	-20.68	peak
5	7440.000	8.73	35.90	35.99	44.88	53.52	74.00	-20.48	peak
6	a 9920 000	10 52	37 30	35 57	41 48	53 73	7/ 00	-20 27	neak



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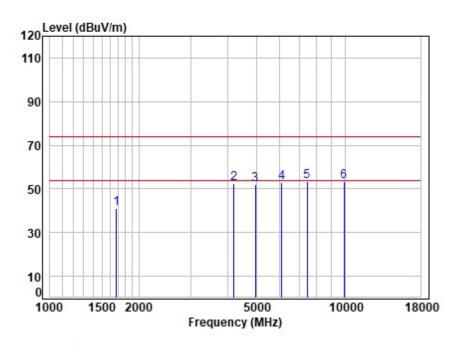


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Report No.: SZCR230300076502

Page: 35 of 56

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



: chamber Site

Condition: 3m VERTICAL Job No : 00765AT/00766AT

Mode : 2480 TX RSE

: BLE

			_							
		Freq			Preamp Factor					
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1677.621	3.46	26.76	36.45	47.47	41.24	74.00	-32.76	peak
2		4206.011	6.49	33.42	34.48	46.82	52.25	74.00	-21.75	peak
3		4960.000	7.18	34.22	34.96	45.73	52.17	74.00	-21.83	peak
4		6088.991	8.18	35.08	35.12	44.58	52.72	74.00	-21.28	peak
5	q	7440.000	8.73	35.90	35.99	44.90	53.54	74.00	-20.46	peak
6		9920 000	10 52	37 30	35 57	11 10	53 35	7/ 00	-20 65	neak



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Report No.: SZCR230300076502

Page: 36 of 56

8 **Test Setup Photo**

Refer to Setup Photos for SZCR2303000765AT

EUT Constructional Details (EUT Photos) 9

Refer to External and Internal Photos for SZCR2303000765AT



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

Report No.: SZCR230300076502

Page: 37 of 56

10 Appendix

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

Ant1								
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)	
1M	SISO	2402	0.789	1.250	63.12	2.00	0.03	
		2440	0.788	1.250	63.04	2.00	0.05	
		2480	0.789	1.250	63.12	2.00	0.03	



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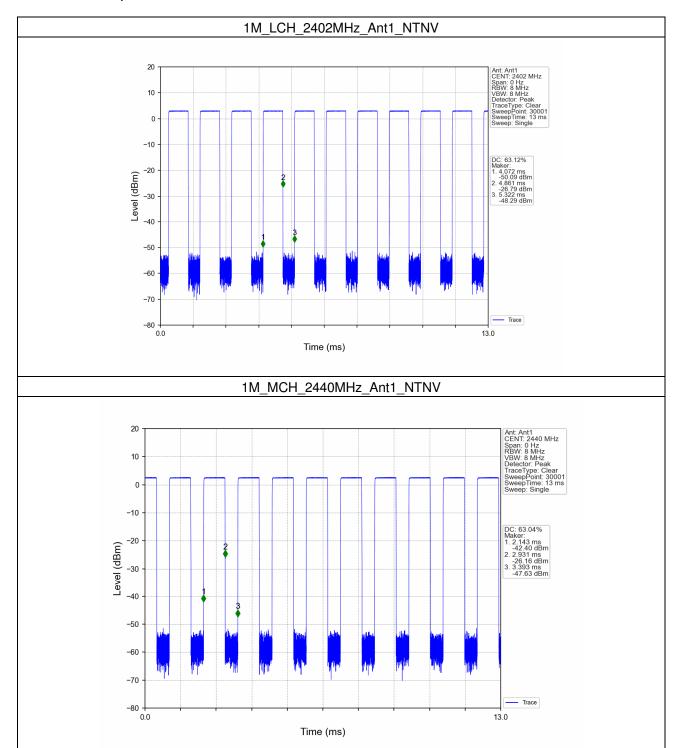


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Report No.: SZCR230300076502

Page: 38 of 56

1.1.2 Test Graph





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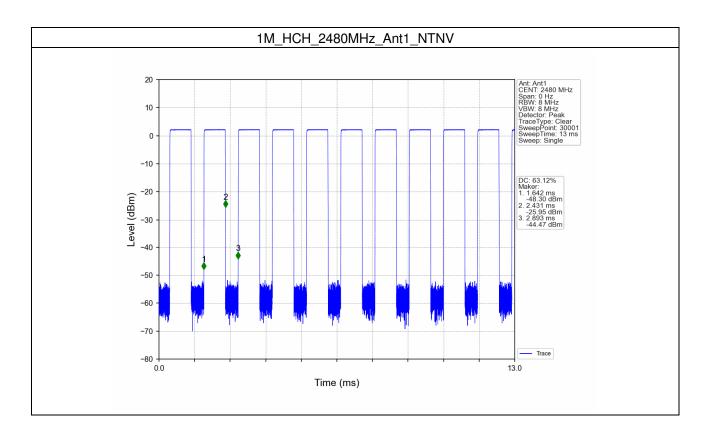
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Report No.: SZCR230300076502

Page: 39 of 56





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

Report No.: SZCR230300076502

Page: 40 of 56

2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Vordict
				Result	Verdict
1M	SISO	2402	1	1.038	Pass
		2440	1	1.041	Pass
		2480	1	1.041	Pass



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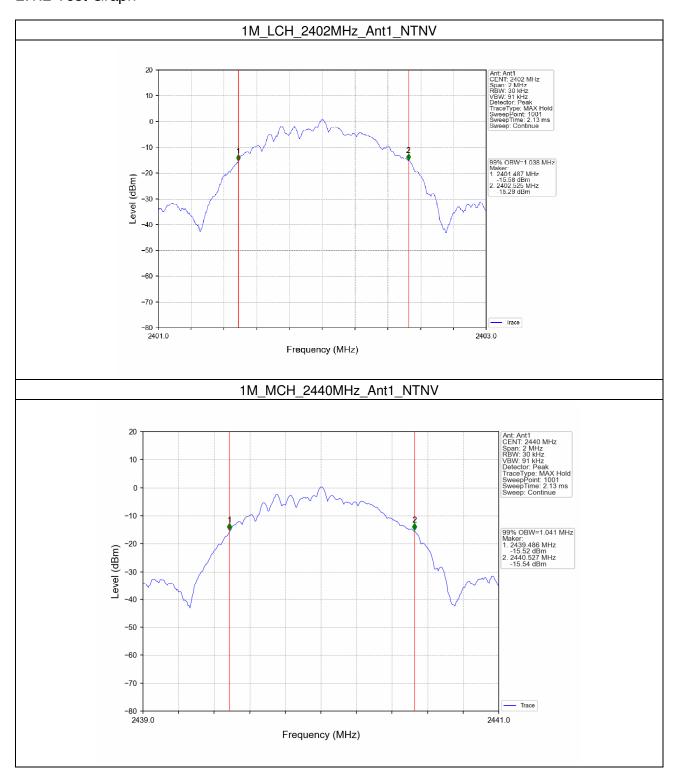


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230300076502

Page: 41 of 56

2.1.2 Test Graph





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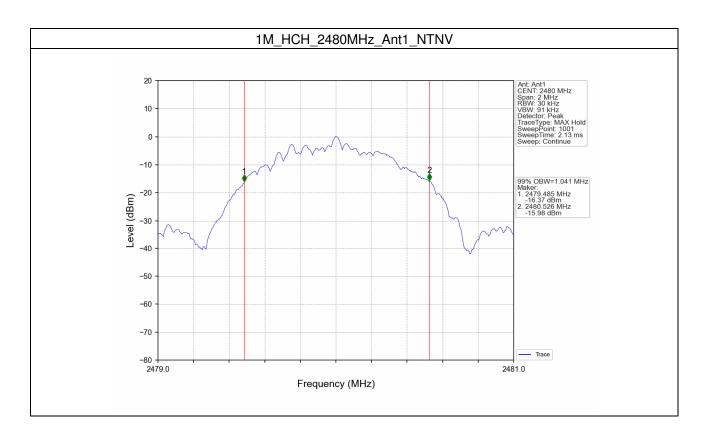
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230300076502

Page: 42 of 56





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

Report No.: SZCR230300076502

Page: 43 of 56

2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandv	Vordiat	
				Result	Limit	Verdict
1M	SISO	2402	1	0.659	>=0.5	Pass
		2440	1	0.669	>=0.5	Pass
		2480	1	0.673	>=0.5	Pass



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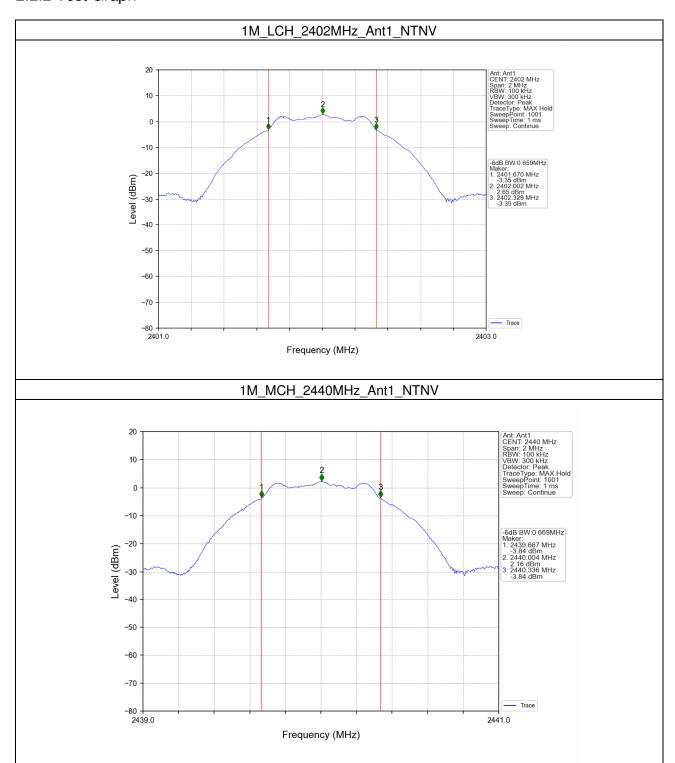


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Report No.: SZCR230300076502

Page: 44 of 56

2.2.2 Test Graph





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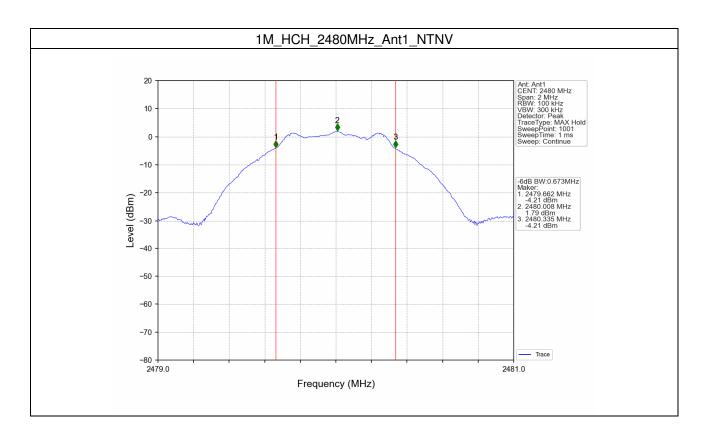
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Report No.: SZCR230300076502

Page: 45 of 56





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

Report No.: SZCR230300076502

Page: 46 of 56

3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX	Frequency (MHz)	Maximum Peak Conduc	Vordict		
	Туре		ANT1	Limit	Verdict	
1M		2402	2.96	<=30	Pass	
	SISO	2440	2.46	<=30	Pass	
		2480	2.10	<=30	Pass	
Note1: Antenna Gain: -9.63dBi						



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

Report No.: SZCR230300076502

Page: 47 of 56

4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PS	Vordict			
			ANT1	Limit	Verdict		
1M	SISO	2402	-11.55	<=8	Pass		
		2440	-12.28	<=8	Pass		
		2480	-12.21	<=8	Pass		
Note1: Antenna Gain: -9.63dBi							

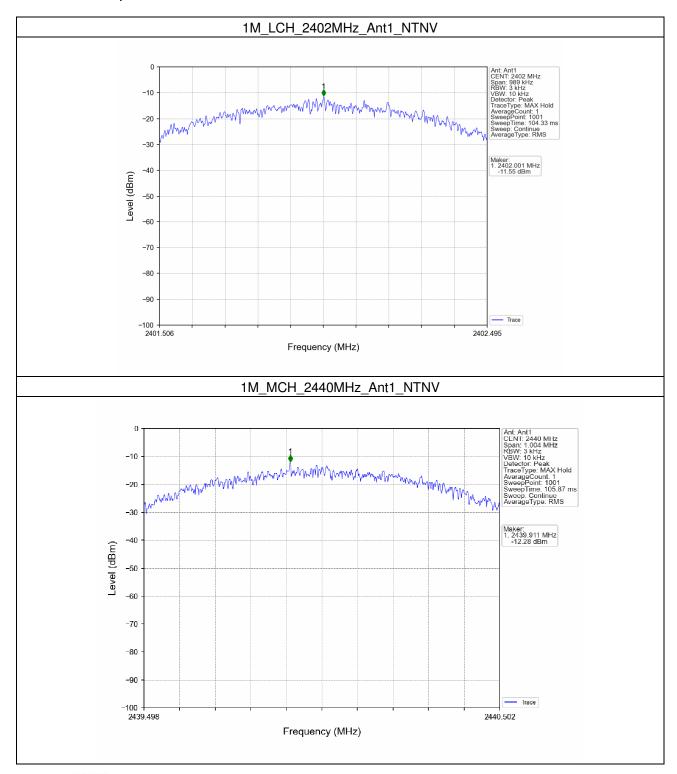


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Report No.: SZCR230300076502

Page: 48 of 56

4.1.2 Test Graph





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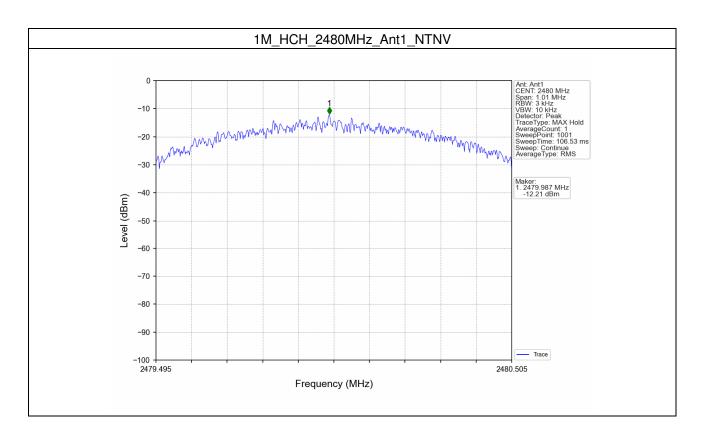
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230300076502

Page: 50 of 56

5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
	SISO	2402	1	2.64
1M		2440	1	2.13
		2480	1	1.79

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



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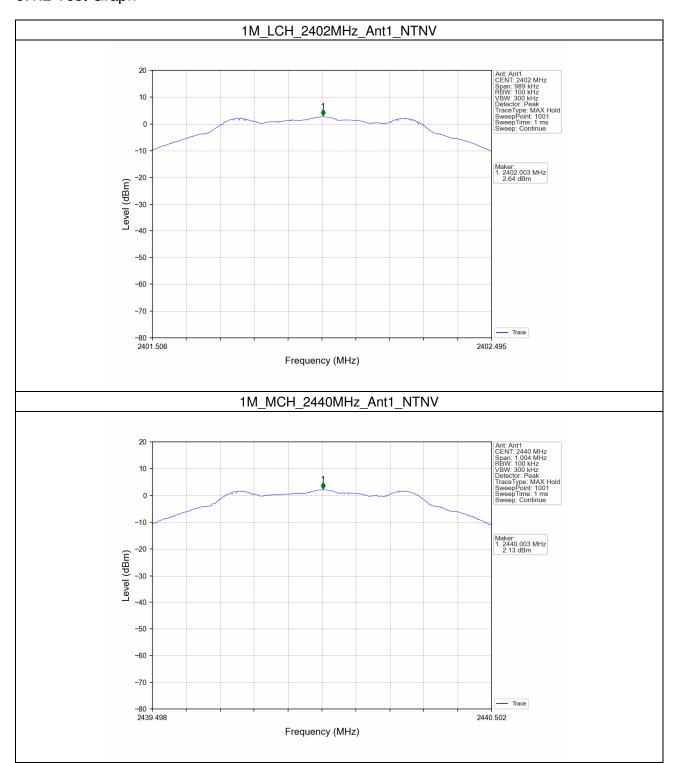


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Report No.: SZCR230300076502

Page: 51 of 56

5.1.2 Test Graph





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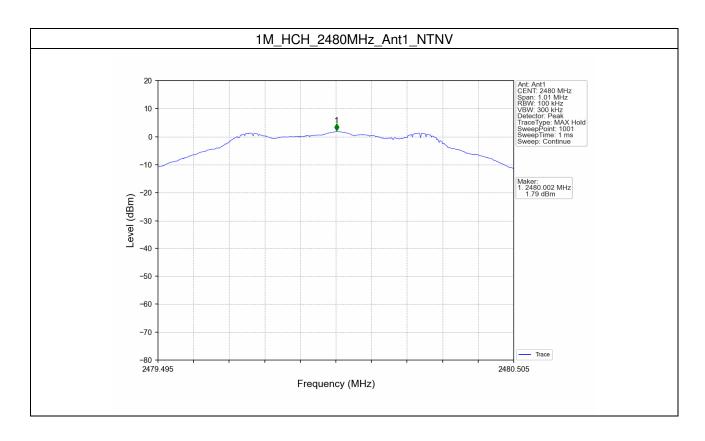
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Report No.: SZCR230300076502

Page: 52 of 56





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

Report No.: SZCR230300076502

Page: 53 of 56

5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	2.64	-17.36	Pass
		2440	1	2.64	-17.36	Pass
		2480	1	2.64	-17.36	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



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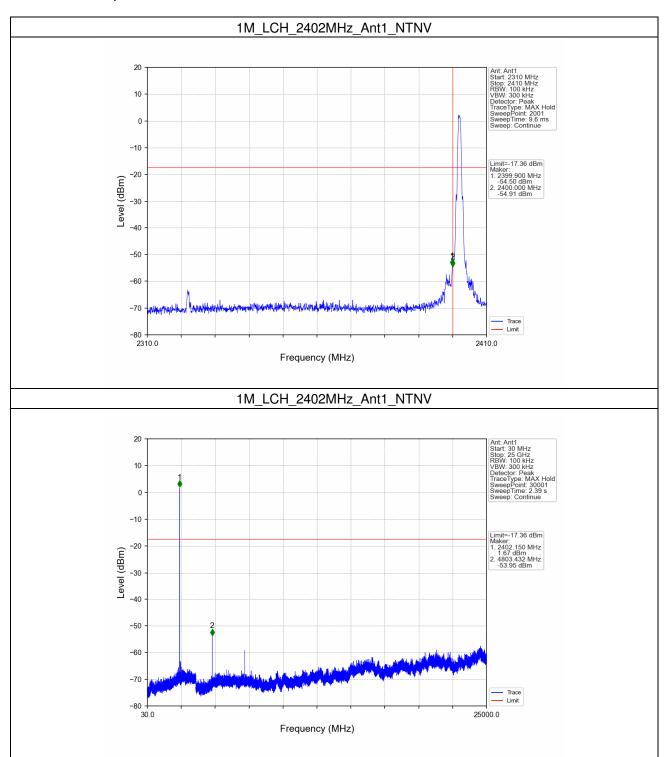


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230300076502

Page: 54 of 56

5.2.2 Test Graph





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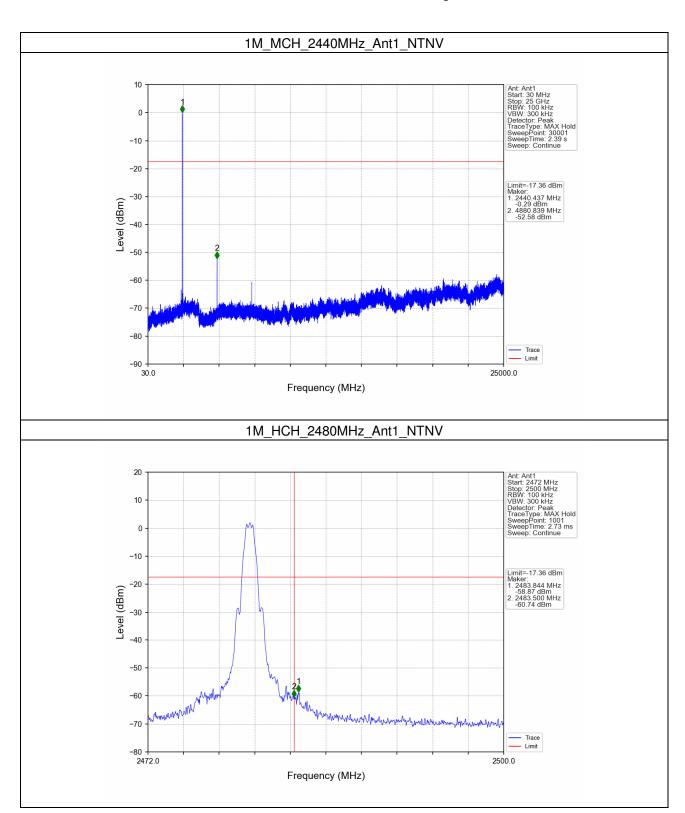
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230300076502

Page: 55 of 56





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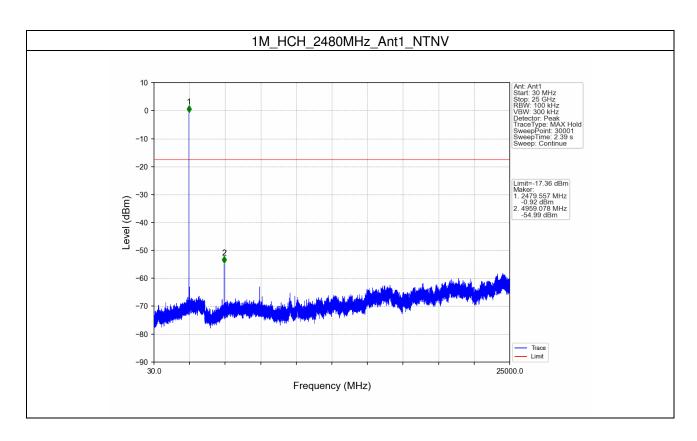
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Report No.: SZCR230300076502

Page: 56 of 56



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