

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241200453403

Page: 1 of 84

TEST REPORT

Application No.: SZCR2412004534AT

Applicant: Edifier International Limited

Address of Applicant: P.O. Box 6264 General Post Office, Hong Kong

Manufacturer: Beijing Edifier Technology Co., Ltd.

Address of Manufacturer: 815, Floor 8, Shuanggiao Building, No.68, North Fourth Ring West Road,

Haidian District, 100080 Beijing, P.R. China

Factory: Dongguan Edifier Technology Co., Ltd.

Address of Factory: No.2 Gongyedong Road, Songshan Lake Sci.&Tech. Industry Park,

Dongguan, 523808 Guangdong, P.R. China

Equipment Under Test (EUT):

EUT Name: True Wireless Planar Magnetic Noise Cancelling Earbuds

Model No.: EDF200185
Trade Mark: EDIFIER
FCC ID: Z9G-EDF268

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

Date of Receipt: 2024-12-02

Date of Test: 2024-12-06 to 2024-12-12

Date of Issue: 2024-12-12

Test Result: Pass*

Keny Xu EMC Laboratory Manager

Ceny. Ku



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No.1 Wordshop, Nr.1 Wordshop, Nr.1

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



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200453403

Page: 2 of 84

	Revision Record							
Version	Version Chapter Date Modifier Remark							
01		2024-12-12		Original				

Authorized for issue by:		
	Bris Cherr	
	Bill Chen/Project Engineer	-
	Exic Fu	
	Eric Fu/Reviewer	_



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241200453403

> Page: 3 of 84

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		
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		
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass		
Minimum 6dB Bandwidth		ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass		
Power Spectrum Density		ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass		
Conducted Band Edges Measurement		ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass		
Conducted Spurious Emissions		ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass		



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200453403

Page: 4 of 84

3 **Contents**

	Page
1 Cover Page	1
2 Test Summary	3
3 Contents	4
4 General Information	6
4.1 Details of E.U.T.	_
· · · · · · · · · · · · · · · · · · ·	
5 Equipment List	8
C. Dadia Crasterum Taskuisal Barrinamant	40
•	
6.1.1 Test Requirement:	10
7 Radio Spectrum Matter Test Results	11
7.1 Radiated Emissions which fall in the restricted bands	11
7.1.1 E.U.T. Operation	11
7.1.2 Test Mode Description	11
7.1.3 Test Setup Diagram	12
7.1.4 Measurement Procedure and Data	
·	
·	
, 0	
·	
•	
·	
7.5.2 Test Mode Description	
3 4 5 6	Contents General Information



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200453403

Page: 5 of 84

	7.5.3	Test Setup Diagram	44
	7.5.4	Measurement Procedure and Data	44
7.	6 P	Power Spectrum Density	
	7.6.1	E.U.T. Operation	
	7.6.2	Test Mode Description	
	7.6.3	Test Setup Diagram	
	7.6.4	Measurement Procedure and Data	
7.	7 C	Conducted Band Edges Measurement	46
	7.7.1	E.U.T. Operation	
	7.7.2	Test Mode Description	
	7.7.3	Test Setup Diagram	
	7.7.4	Measurement Procedure and Data	
7.	8 C	Conducted Spurious Emissions	48
	7.8.1	E.U.T. Operation	
	7.8.2	Test Mode Description	48
	7.8.3	Test Setup Diagram	
	7.8.4	Measurement Procedure and Data	49
8	Test S	etup Photo	50
_			
9	EUT C	onstructional Details (EUT Photos)	50
10	Annon	ndix	E4
ıU	Apper	IUIA	



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241200453403

> Page: 6 of 84

General Information

Details of E.U.T. 4.1

Power supply:	Lithium Ion Battery: DC 3.73V 50mAh 0.187Wh rechargeable battery which charged by charging case for left earbud and right earbud
	Lithium Ion Battery: DC 3.7V 500mAh 1.85Wh rechargeable battery which charged by USB port for charging case
Cable(s):	USB cable:30cm unshielded
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.4 Dual mode
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Rate data:	1Mbps
Antenna Type:	FPC
Antenna Gain:	Left earbud:-0.95dBi Right earbud:1.54dBi

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
Radiated Emissions which fall in the restricted bands	± 6.0dB (Below 1GHz);± 4.6dB (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	± 6.0dB for 3m; ± 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

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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> Page: 7 of 84

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.: SZCR241200453403

Page: 8 of 84

5 **Equipment List**

Radiated Emissions which fall in the restricted bands						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M- 048	2024-01-30	2025-01-29	
Low Noise Amplifier 30M-8GHz	Tonscend	TAP30M8G30	SZ-WRG-M- 050	2024-01-30	2025-01-29	
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M- 055	2023-12-21	2025-12-20	
RSE Test Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C- 063	2022-01-05	2025-01-04	
Humidity and Temperature Indicator	deli	8838	SEM002-46	2024-07-24	2025-07-23	

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	

Radiated Spurious Emissions Above 1GHz						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M- 048	2024-01-30	2025-01-29	
Low Noise Amplifier 1G- 18GHz	Tonscend	TAP01018050	SZ-WRG-M- 051	2024-01-30	2025-01-29	
Low Noise Amplifier 18G-40GHz	Tonscend	TAP18040048	SZ-WRG-M- 052	2024-01-30	2025-01-29	
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M- 055	2023-12-21	2025-12-20	
SHF-EHF Horn 15GHz- 40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M- 056	2023-12-25	2025-12-24	
RSE Test Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200453403

Page: 9 of 84

Chamber	CRTSGSSAC966	N/A	SZ-WRG-C- 063	2022-01-05	2025-01-04
Humidity and Temperature Indicator	deli	8838	SEM002-46	2024-07-24	2025-07-23

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.: SZCR241200453403

> Page: 10 of 84

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)

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 Left earbud:-0.95dBi Right earbud:1.54dBi. Antenna location: Refer to internal photo.



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200453403

Page: 11 of 84

Radio Spectrum Matter Test Results 7

7.1 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.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C Humidity: 59.8 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

		•
Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode(1Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	06	TX mode(1Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.



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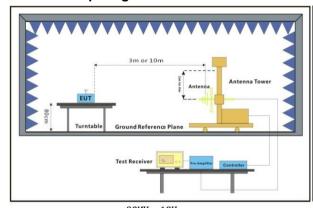


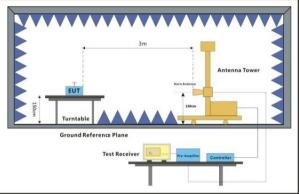
SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200453403

Page: 12 of 84

7.1.3 Test Setup Diagram





30MHz-1GHz

Above 1GHz



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241200453403

> 13 of 84 Page:

7.1.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. 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
- c. The EUT was set 3 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.
- i. 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.
- Remark 3: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

Remark 4:For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥1/T (Duty cycle<98%) or 10Hz (Duty cycle≥98%) for Average detection (AV) at frequency above 1GHz.



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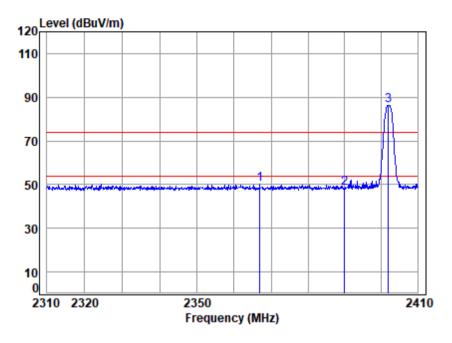


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200453403

Page: 14 of 84

Test Mode: 04; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Condition: 3m HORIZONTAL Job No : 04534AT/04535AT Mode : 2402 Band edge

: BLE 1M L

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2366.881			31.54					•
	2390.000	6.82	27.46	31.54	45.68	48.42	74.00	-25.58	peak
pp	2402.000	6.84	27.50	31.54	83.34	86.14	74.00	12.14	peak



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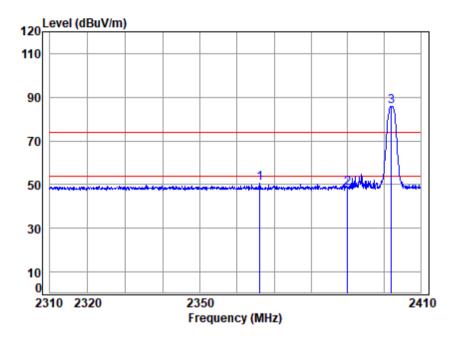


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200453403

Page: 15 of 84

Test Mode: 04; Polarity: Vertical; Modulation:GFSK; Channel:Low



Condition: 3m VERTICAL Job No : 04534AT/04535AT

Mode : 2402 Band edge

: BLE 1M L

		±111 E								
		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		
	2366.179	6.81	27.36	31.54	47.79	50.42	74.00	-23.58	peak	
	2390.000	6.82	27.46	31.54	45.81	48.55	74.00	-25.45	peak	
pp	2402.000	6.84	27.50	31.54	82.94	85.74	74.00	11.74	peak	



1 2

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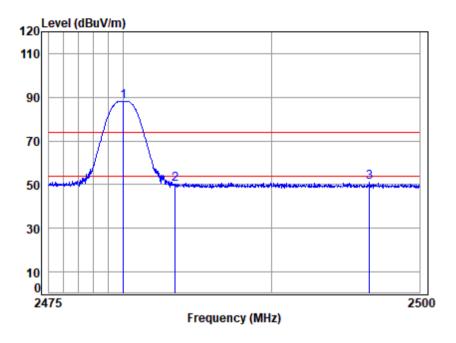


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200453403

Page: 16 of 84

Test Mode: 04; Polarity: Horizontal; Modulation: GFSK; Channel: High



Condition: 3m HORIZONTAL Job No : 04534AT/04535AT Mode : 2480 Band edge

RIF 1M I

	. DLL	TIM E								
		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	pp 2480.000	7.37	27.78	31.55	84.53	88.13	74.00	14.13	peak	
2	2483.500	7.40	27.80	31.55	46.47	50.12	74.00	-23.88	peak	
3	2496.610	7.49	27.88	31.55	47.23	51.05	74.00	-22.95	peak	



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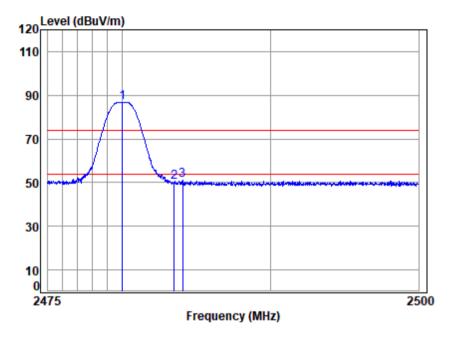


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200453403

Page: 17 of 84

Test Mode: 04; Polarity: Vertical; Modulation:GFSK; Channel:High



Condition: 3m VERTICAL

Job No : 04534AT/04535AT Mode : 2480 Band edge

: BLE 1M L

		T11 E								
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
										_
	MHz	dB	dB/m	dB	dBuV	d Bu V/m	dBuV/m	dB		
1 p	p 2480.000	7.37	27.78	31.55	83.19	86.79	74.00	12.79	peak	
2	2483.500	7.40	27.80	31.55	46.61	50.26	74.00	-23.74	peak	
3	2484.046	7.40	27.80	31.55	47.28	50.93	74.00	-23.07	peak	



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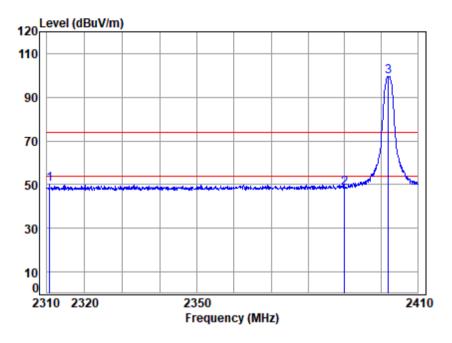


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200453403

Page: 18 of 84

Test Mode: 06; Polarity: Horizontal; Modulation: GFSK; Channel:Low



Condition: 3m HORIZONTAL Job No : 04534AT/04535AT Mode : 2402 Band edge

· RIF 1M R

		THE IX							
		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	
	2310.685	6.79	27.22	31.53	47.66	50.14	74.00	-23.86	peak
	2390.000	6.82	27.46	31.54	45.60	48.34	74.00	-25.66	peak
pp	2402.000	6.84	27.50	31.54	96.51	99.31	74.00	25.31	peak



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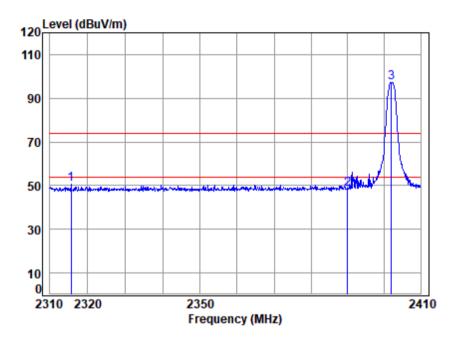


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Report No.: SZCR241200453403

Page: 19 of 84

Test Mode: 06; Polarity: Vertical; Modulation:GFSK; Channel:Low



Condition: 3m VERTICAL

Job No : 04534AT/04535AT Mode : 2402 Band edge

· RIF 1M R

	. DLL	The ix							
		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	
							•		
	2315.587	6.79	27.23	31.53	48.07	50.56	74.00	-23.44	peak
	2390.000								•
	2330.000								•
pp	2402.000	6.84	27.50	31.54	94.31	97.11	74.00	23.11	peak



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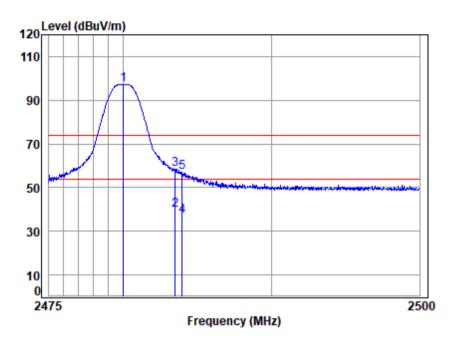


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Report No.: SZCR241200453403

Page: 20 of 84

Test Mode: 06; Polarity: Horizontal; Modulation: GFSK; Channel: High



Condition: 3m HORIZONTAL Job No : 04534AT/04535AT Mode : 2480 Band edge

: BLE 1M R

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2480.000 2483.500								•
3	2483.500			31.55					_
4	2483.971	7.40	27.80	31.55	33.48	37.13	54.00	-16.87	Average
5	2483.971	7.40	27.80	31.55	53.28	56.93	74.00	-17.07	peak



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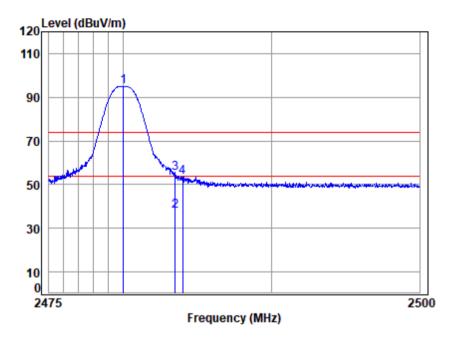


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Report No.: SZCR241200453403

Page: 21 of 84

Test Mode: 06; Polarity: Vertical; Modulation:GFSK; Channel:High



Condition: 3m VERTICAL

Job No : 04534AT/04535AT Mode : 2480 Band edge

: BLE 1M R

		T11 11								
		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		
pp	2480.000	7.37	27.78	31.55	91.25	94.85	74.00	20.85	peak	
av	2483.500	7.40	27.80	31.55	34.25	37.90	54.00	-16.10	Average	
	2483.500	7.40	27.80	31.55	51.76	55.41	74.00	-18.59	peak	
	2483.996	7.40	27.80	31.55	49.83	53.48	74.00	-20.52	neak	



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Report No.: SZCR241200453403

Page: 22 of 84

7.2 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		

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 20.2 °C Humidity: 45.2 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode(1Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	06	TX mode(1Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.



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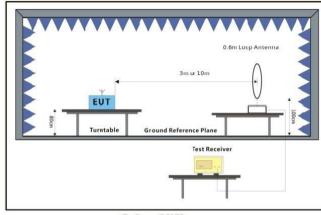
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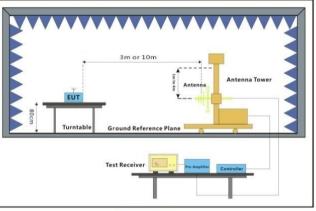


SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241200453403

> Page: 23 of 84

7.2.3 Test Setup Diagram





Below 30MHz

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 meter semi-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 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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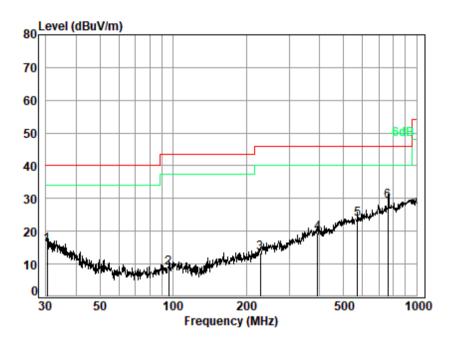


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200453403

Page: 24 of 84

Test Mode: 04; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL Job No. : 04534AT/04535AT

Test Mode: 04

		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	30.317	21.05	0.64	27.80	21.95	15.84	40.00	-24.16	QP
2	96.099	12.17	1.17	27.62	23.18	8.90	43.50	-34.60	QP
3	227.691	16.12	1.85	27.15	22.45	13.27	46.00	-32.73	QP
4	392.095	20.73	2.52	27.30	23.55	19.50	46.00	-26.50	QP
5	572.614	23.73	3.12	28.11	25.10	23.84	46.00	-22.16	QP
6 a	763.376	26.52	3.71	27.72	26.76	29.27	46.00	-16.73	OP



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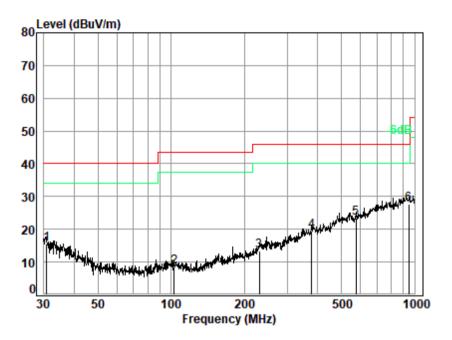


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200453403

Page: 25 of 84

Test Mode: 04; Polarity: Vertical



Site : chamber Condition: 3m VERTICAL

Job No. : 04534AT/04535AT

Test Mode: 04

		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	30.745	20.86	0.65	27.80	21.90	15.61	40.00	-24.39	QP
2	102.719	12.29	1.20	27.60	22.78	8.67	43.50	-34.83	QP
3	230.099	16.46	1.86	27.14	22.19	13.37	46.00	-32.63	QP
4	378.584	20.85	2.47	27.24	23.31	19.39	46.00	-26.61	QP
5	574.626	23.80	3.13	28.12	24.47	23.28	46.00	-22.72	QP
6 a	948.761	28.23	4.22	26.90	22.23	27.78	46.00	-18.22	OP



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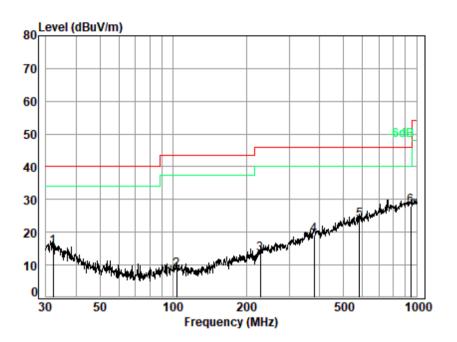


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200453403

Page: 26 of 84

Test Mode: 06; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL Job No. : 04534AT/04535AT

Test Mode: 06

		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	32.067	20.24	0.66	27.80	22.44	15.54	40.00	-24.46	QP
2	103.442	12.26	1.21	27.60	22.71	8.58	43.50	-34.92	QP
3	227.691	16.12	1.85	27.15	22.63	13.45	46.00	-32.55	QP
4	379.914	20.91	2.47	27.25	23.00	19.13	46.00	-26.87	QP
5	582.743	24.05	3.15	28.15	24.61	23.66	46.00	-22.34	QP
6 a	948.761	28.23	4.22	26.90	22.31	27.86	46.00	-18.14	OP



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中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

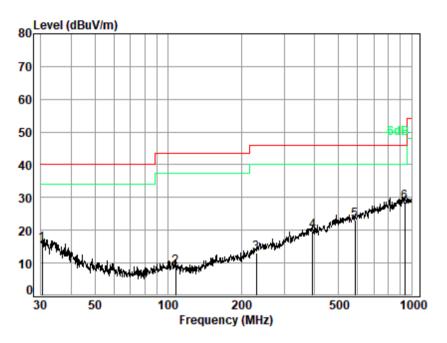


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200453403

Page: 27 of 84

Test Mode: 06; Polarity: Vertical



Site : chamber Condition: 3m VERTICAL

Job No. : 04534AT/04535AT

Test Mode: 06

		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	30.424	21.00	0.64	27.80	21.92	15.76	40.00	-24.24	QP
2	107.134	12.13	1.23	27.58	23.13	8.91	43.50	-34.59	QP
3	230.099	16.46	1.86	27.14	21.84	13.02	46.00	-32.98	QP
4	392.095	20.73	2.52	27.30	23.73	19.68	46.00	-26.32	QP
5	586.844	24.26	3.17	28.17	23.76	23.02	46.00	-22.98	QP
6 a	938.833	28.15	4.19	26.94	23.16	28.56	46.00	-17.44	OP



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200453403

Page: 28 of 84

7.3 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

7.3.1 E.U.T. Operation

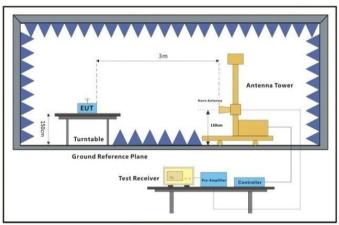
Operating Environment:

Temperature: 23.2 °C Humidity: 60.5 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode(1Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	06	TX mode(1Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.3.3 Test Setup Diagram



Above 1GHz



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241200453403

> 29 of 84 Page:

7.3.4 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.
- 4: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.
- 5:For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥1/T (Duty cycle<98%) or 10Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1GHz.



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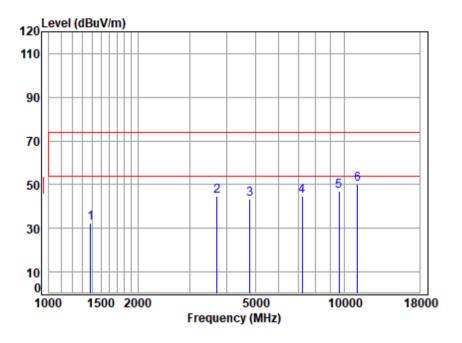


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200453403

Page: 30 of 84

Test Mode: 04; Polarity: Horizontal; Modulation: GFSK; Channel: Low



Condition: 3m HORIZONTAL Job No : 04534AT/04535AT

Mode : 2402 TX RSE : BLE 1M L

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Line Limit Remark Frea Level Level MHz dB dB/m dB dBuV dBuV/m dBuV/m 1 1382.262 7.20 25.04 54.70 54.74 32.28 74.00 -41.72 peak 2 3714.443 7.91 29.83 55.43 62.47 44.78 74.00 -29.22 peak 4804.000 8.90 31.92 56.16 58.52 43.18 74.00 -30.82 peak 4 7206.000 11.10 36.60 56.54 53.42 44.58 74.00 -29.42 peak 12.38 38.78 54.45 50.35 47.06 74.00 -26.94 peak 9608.000 6 pp11076.100 14.14 39.48 53.52 49.87 49.97 74.00 -24.03 peak



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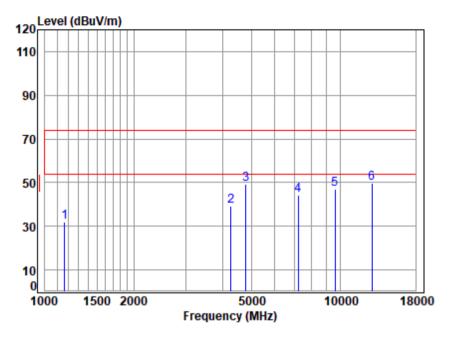


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200453403

Page: 31 of 84

Test Mode: 04; Polarity: Vertical; Modulation:GFSK; Channel:Low



Condition: 3m VERTICAL

Job No : 04534AT/04535AT Mode : 2402 TX RSE

: BLE 1M L

		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	1165.546	7.16	25.37	54.70	54.27	32.10	74.00	-41.90	peak
2	4267.237	8.47	31.17	55.79	55.24	39.09	74.00	-34.91	peak
3	4804.000	8.90	31.92	56.16	64.58	49.24	74.00	-24.76	peak
4	7206.000	11.10	36.60	56.54	52.88	44.04	74.00	-29.96	peak
5	9608.000	12.38	38.78	54.45	50.17	46.88	74.00	-27.12	peak
6	pp12798.240	15.15	40.30	54.36	48.56	49.65	74.00	-24.35	peak



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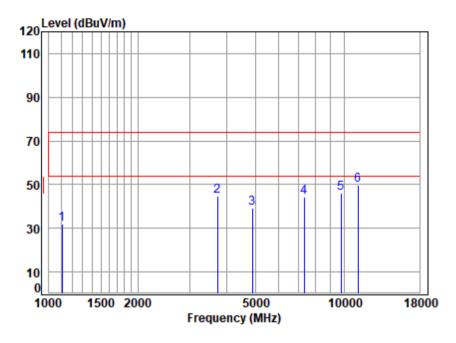


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200453403

Page: 32 of 84

Test Mode: 04; Polarity: Horizontal; Modulation: GFSK; Channel: middle



Condition: 3m HORIZONTAL Job No : 04534AT/04535AT Mode : 2440 TX RSE

: BLE 1M L

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1109.660	7.11	25.56	54.70	54.15	32.12	74.00	-41.88	peak
2	3725.195	7.92	29.85	55.44	62.16	44.49	74.00	-29.51	peak
3	4880.000	8.98	32.16	56.22	54.29	39.21	74.00	-34.79	peak
4	7320.000	11.12	36.74	56.44	52.64	44.06	74.00	-29.94	peak
5	9760.000	12.84	38.60	54.32	49.02	46.14	74.00	-27.86	peak
6	pp11140.310	14.17	39.54	53.54	49.64	49.81	74.00	-24.19	peak



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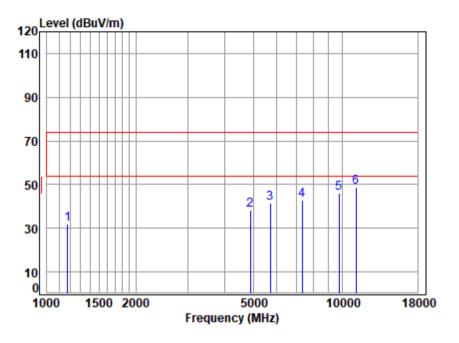


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200453403

Page: 33 of 84

Test Mode: 04; Polarity: Vertical; Modulation:GFSK; Channel:middle



Condition: 3m VERTICAL

Job No : 04534AT/04535AT

Mode : 2440 TX RSE

: BLE 1M L

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1175.697	7.17	25.35	54.70	53.96	31.78	74.00	-42.22	peak
2	4880.000	8.98	32.16	56.22	53.21	38.13	74.00	-35.87	peak
3	5713.856	9.86	33.23	56.73	55.36	41.72	74.00	-32.28	Peak
4	7320.000	11.12	36.74	56.44	51.37	42.79	74.00	-31.21	peak
5	9760.000	12.84	38.60	54.32	48.83	45.95	74.00	-28.05	peak
6	pp11140.310	14.17	39.54	53.54	48.86	49.03	74.00	-24.97	peak



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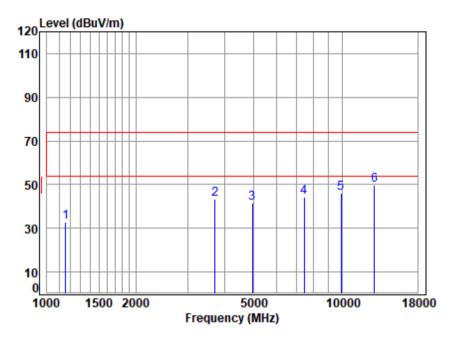


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200453403

Page: 34 of 84

Test Mode: 04; Polarity: Horizontal; Modulation: GFSK; Channel: High



Condition: 3m HORIZONTAL Job No : 04534AT/04535AT

Mode : 2480 TX RSE : BLE 1M L

Cable	Ant	Preamp	Read		Limit	0ver	
Loss	Factor	Factor	Level	Level	Line	Limit	Remark
dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
7.15	25.38	54.70	54.80	32.63	74.00	-41.37	peak
7.91	29.83	55.43	61.04	43.35	74.00	-30.65	peak
9.07	32.20	56.27	56.69	41.69	74.00	-32.31	peak
11.08	36.78	56.35	52.97	44.48	74.00	-29.52	peak
12.73	38.90	54.17	48.78	46.24	74.00	-27.76	peak
							•
	dB 7.15 7.91 9.07 11.08 12.73	AB dB/m 7.15 25.38 7.91 29.83 9.07 32.20 11.08 36.78 12.73 38.90	Loss Factor Factor dB dB/m dB 7.15 25.38 54.70 7.91 29.83 55.43 9.07 32.20 56.27 11.08 36.78 56.35 12.73 38.90 54.17	Loss Factor Factor Level dB dB/m dB dBuV 7.15 25.38 54.70 54.80 7.91 29.83 55.43 61.04 9.07 32.20 56.27 56.69 11.08 36.78 56.35 52.97 12.73 38.90 54.17 48.78	dB dB/m dB dBuV dBuV/m 7.15 25.38 54.70 54.80 32.63 7.91 29.83 55.43 61.04 43.35 9.07 32.20 56.27 56.69 41.69 11.08 36.78 56.35 52.97 44.48 12.73 38.90 54.17 48.78 46.24	Loss Factor Factor Level Level Level MBuV/m Level MBuV/m Level Line 7.15 25.38 54.70 54.80 32.63 74.00 7.91 29.83 55.43 61.04 43.35 74.00 9.07 32.20 56.27 56.69 41.69 74.00 11.08 36.78 56.35 52.97 44.48 74.00 12.73 38.90 54.17 48.78 46.24 74.00	Cable Ant Preamp Read Limit Over Loss Factor Factor Level Level Line Limit AB AB AB AB AB AB



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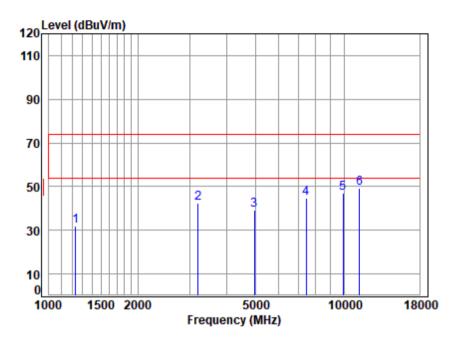


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200453403

Page: 35 of 84

Test Mode: 04; Polarity: Vertical; Modulation:GFSK; Channel:High



Condition: 3m VERTICAL

Job No : 04534AT/04535AT

Mode : 2480 TX RSE

: BLE 1M L

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1231.345	7.18	25.30	54.70	54.38	32.16	74.00	-41.84	peak
2	3196.094	7.70	29.20	55.12	60.49	42.27	74.00	-31.73	peak
3	4960.000	9.07	32.20	56.27	54.12	39.12	74.00	-34.88	peak
4	7440.000	11.08	36.78	56.35	53.27	44.78	74.00	-29.22	peak
5	9920.000	12.73	38.90	54.17	49.51	46.97	74.00	-27.03	peak
6	pp11269.860	14.35	39.67	53.58	48.83	49.27	74.00	-24.73	peak



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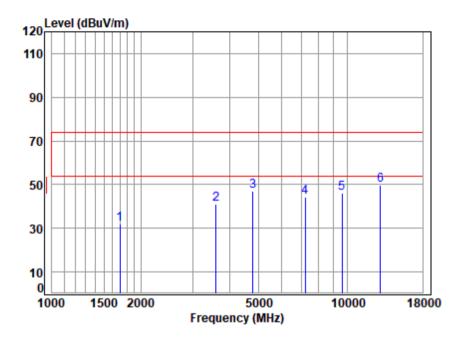


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200453403

Page: 36 of 84

Test Mode: 06; Polarity: Horizontal; Modulation: GFSK; Channel:Low



Condition: 3m HORIZONTAL Job No : 04534AT/04535AT Mode : 2402 TX RSE

: BLE 1M R

		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	
	4607 430	7 20	25 00	F4 70	F4 F0	32.00	74.00	44 04	
1	1697.129	1.20	25.09	54.70	54.50	32.09	74.00	-41.91	peak
2	3598.203	7.76	29.90	55.36	58.84	41.14	74.00	-32.86	peak
3	4804.000	8.90	31.92	56.16	62.40	47.06	74.00	-26.94	peak
4	7206.000	11.10	36.60	56.54	53.30	44.46	74.00	-29.54	peak
5	9608.000	12.38	38.78	54.45	49.46	46.17	74.00	-27.83	peak
6	pp12947.070	15.25	40.35	54.46	48.54	49.68	74.00	-24.32	peak



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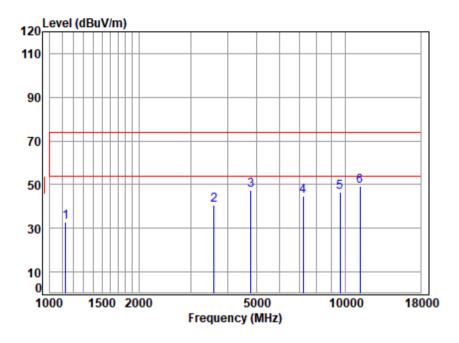


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200453403

Page: 37 of 84

Test Mode: 06; Polarity: Vertical; Modulation:GFSK; Channel:Low



Condition: 3m VERTICAL

Job No : 04534AT/04535AT

Mode : 2402 TX RSE

: BLE 1M R

		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		
	4430 340	7.43	05 47	F4 70	FF 40	22.00	74.00	40.00		
	1132.340	/.13	25.4/	54.70	55.12	33.02	/4.00	-40.98	peak	
)	3598.203	7.76	29.90	55.36	58.25	40.55	74.00	-33.45	peak	
,	4804.000	8.90	31.92	56.16	62.93	47.59	74.00	-26.41	peak	
ļ	7206.000	11.10	36.60	56.54	53.36	44.52	74.00	-29.48	peak	
,	9608.000	12.38	38.78	54.45	50.01	46.72	74.00	-27.28	peak	
,	pp11237.330	14.30	39.64	53.57	49.08	49.45	74.00	-24.55	peak	



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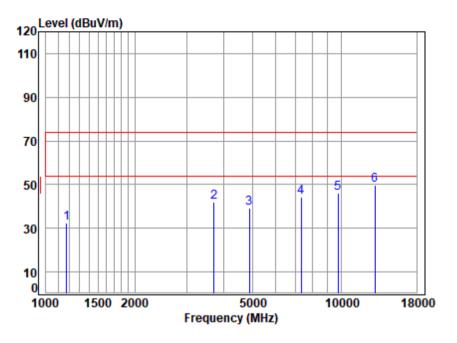


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200453403

Page: 38 of 84

Test Mode: 06; Polarity: Horizontal; Modulation: GFSK; Channel: middle



Condition: 3m HORIZONTAL Job No : 04534AT/04535AT Mode : 2440 TX RSE

: BLE 1M R

		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	
_	4475 607	- 4-	05.05	F.4. 70		20.20	74.00		
1	1175.697	/.1/	25.35	54.70	54.5/	32.39	74.00	-41.61	peak
2	3714.443	7.91	29.83	55.43	59.83	42.14	74.00	-31.86	peak
3	4880.000	8.98	32.16	56.22	54.50	39.42	74.00	-34.58	peak
4	7320.000	11.12	36.74	56.44	53.04	44.46	74.00	-29.54	peak
5	9760.000	12.84	38.60	54.32	49.10	46.22	74.00	-27.78	peak
6	pp12984.540	15.26	40.32	54.49	48.82	49.91	74.00	-24.09	peak



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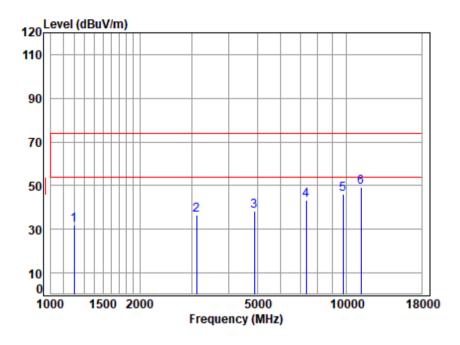


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200453403

Page: 39 of 84

Test Mode: 06; Polarity: Vertical; Modulation:GFSK; Channel:middle



Condition: 3m VERTICAL

Job No : 04534AT/04535AT

Mode : 2440 TX RSE

: BLE 1M R

		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	1196.264	7.19	25.31	54.70	54.10	31.90	74.00	-42.10	peak
2	3114.025	7.71	29.13	55.07	54.79	36.56	74.00	-37.44	Peak
3	4880.000	8.98	32.16	56.22	53.35	38.27	74.00	-35.73	peak
4	7320.000	11.12	36.74	56.44	51.82	43.24	74.00	-30.76	peak
5	9760.000	12.84	38.60	54.32	48.83	45.95	74.00	-28.05	peak
6	pp11204.900	14.25	39.60	53.56	48.99	49.28	74.00	-24.72	peak



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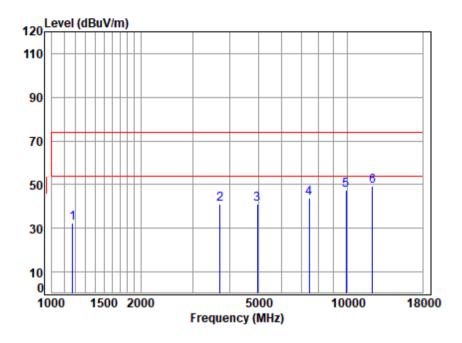


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200453403

Page: 40 of 84

Test Mode: 06; Polarity: Horizontal; Modulation: GFSK; Channel: High



Condition: 3m HORIZONTAL Job No : 04534AT/04535AT

Mode : 2480 TX RSE : BLE 1M

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Line Limit Remark Freq Level Level MHz dB dB/m dB dBuV dBuV/m dBuV/m 25.35 54.70 54.51 1175.697 7.17 32.33 74.00 -41.67 peak 3714.443 7.91 29.83 55.43 58.84 41.15 74.00 -32.85 peak 4960.000 9.07 32.20 56.27 56.20 41.20 74.00 -32.80 peak 7440.000 11.08 36.78 56.35 52.49 44.00 74.00 -30.00 peak 12.73 9920.000 38.90 54.17 49.80 47.26 74.00 -26.74 peak 14.48 39.87 53.93 49.08 49.50 74.00 -24.50 peak 6 pp12184.580



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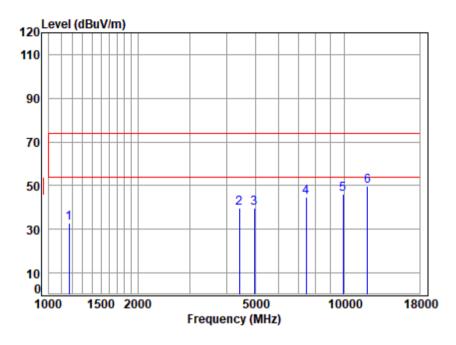


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200453403

Page: 41 of 84

Test Mode: 06; Polarity: Vertical; Modulation:GFSK; Channel:High



Condition: 3m VERTICAL

Job No : 04534AT/04535AT

Mode : 2480 TX RSE

: BLE 1M R

		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	
_	4450.000	7.46	05.06	F.4. 70	F.4.00	20.04	74.00		
1	1168.920	/.16	25.36	54.70	54.99	32.81	/4.00	-41.19	peak
2	4417.841	8.54	31.27	55.89	55.72	39.64	74.00	-34.36	peak
3	4960.000	9.07	32.20	56.27	54.53	39.53	74.00	-34.47	peak
4	7440.000	11.08	36.78	56.35	53.33	44.84	74.00	-29.16	peak
5	9920.000	12.73	38.90	54.17	48.84	46.30	74.00	-27.70	peak
6	pp12009.760	14.35	39.79	53.81	49.40	49.73	74.00	-24.27	peak



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200453403

Page: 42 of 84

7.4 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

7.4.1 E.U.T. Operation

Operating Environment:

Humidity: 53.0 % RH Temperature: 23.6 °C Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode(1Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	06	TX mode(1Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.



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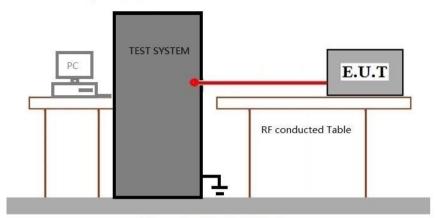


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200453403

Page: 43 of 84

7.4.3 Test Setup Diagram



Ground Reference Plane

7.4.4 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/1

Report No.: SZCR241200453403

Page: 44 of 84

7.5 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

7.5.1 E.U.T. Operation

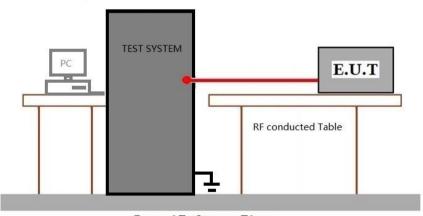
Operating Environment:

Atmospheric Pressure: 1020 mbar Temperature: 23.6 °C Humidity: 53.0 % RH

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode(1Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	06	TX mode(1Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.5.3 Test Setup Diagram



Ground Reference Plane

7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200453403

Page: 45 of 84

7.6 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

7.6.1 E.U.T. Operation

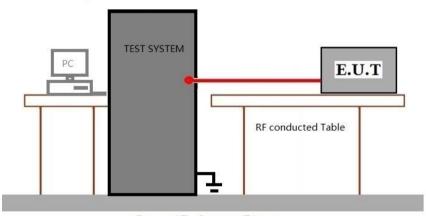
Operating Environment:

Atmospheric Pressure: 1020 mbar Temperature: 23.6 °C Humidity: 53.0 % RH

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode(1Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	06	TX mode(1Mbps)(Right earbud)_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.: SZCR241200453403

Page: 46 of 84

7.7 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).

7.7.1 E.U.T. Operation

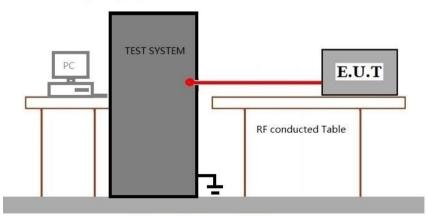
Operating Environment:

Temperature: 23.6 °C Humidity: 53.0 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode(1Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	06	TX mode(1Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.7.3 Test Setup Diagram



Ground Reference Plane



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> Page: 47 of 84

7.7.4 Measurement Procedure and Data

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Report No.: SZCR241200453403

Page: 48 of 84

7.8 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).

7.8.1 E.U.T. Operation

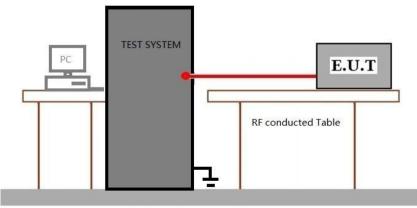
Operating Environment:

Temperature: 23.6 °C Humidity: 53.0 % RH Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Tiola Tool Mode accompliant									
Pre-scan / Final test	Mode Code	Description							
Final test	04	TX mode(1Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.							
Final test	06	TX mode(1Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.							

7.8.3 Test Setup Diagram



Ground Reference Plane



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> Page: 49 of 84

7.8.4 Measurement Procedure and Data

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> Page: 50 of 84

Test Setup Photo 8

Refer to Appendix - Test Setup Photo for SZCR2412004534AT

EUT Constructional Details (EUT Photos) 9

Refer to Appendix - External and Internal Photos for SZCR2412004534AT



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241200453403

> Page: 51 of 84

10 Appendix

Right earbud:

- 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	0.409	0.625	65.44	1.84	0.00					
1M	SISO	2440	0.410	0.625	65.60	1.83	0.00					
		2480	0.409	0.625	65.44	1.84	0.03					



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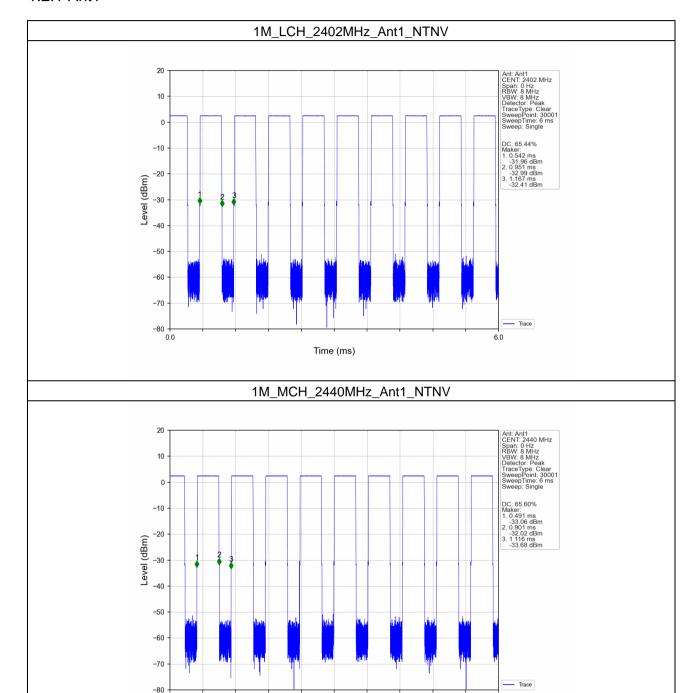
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Report No.: SZCR241200453403

Page: 52 of 84

1.2 Test Graph

1.2.1 Ant1





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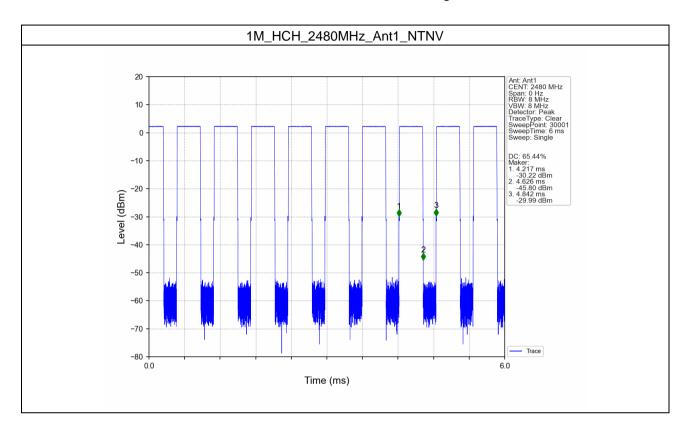
Time (ms)



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Report No.: SZCR241200453403

Page: 53 of 84





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> Page: 54 of 84

2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mada	TX	- 1 7		99% Occupied E	Verdict		
Mode	Туре	(MHz)	ANT	Result	Limit	verdict	
		2402	1	1.048	/	Pass	
1M	SISO	2440	1	1.049	/	Pass	
		2480	1	1.046	/	Pass	

2.1.2 6dB BW

Mode	TX	Frequency	A NIT	6dB Bandv	Vandiat	
Mode	Type	(MHz)	ANT	Result	Limit	Verdict
1M	SISO	2402	1	0.713	>=0.5	Pass
		2440	1	0.713	>=0.5	Pass
		2480	1	0.709	>=0.5	Pass



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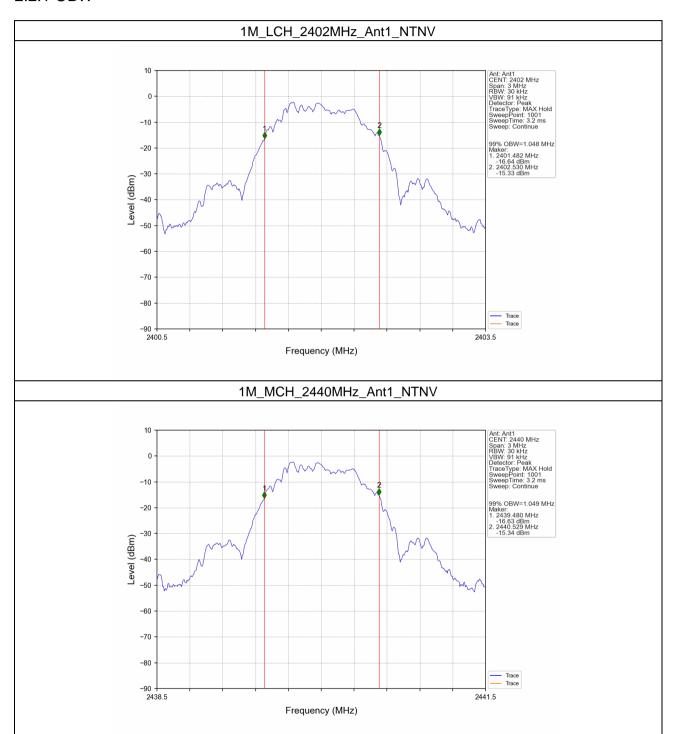
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Report No.: SZCR241200453403

Page: 55 of 84

2.2 Test Graph

2.2.1 OBW





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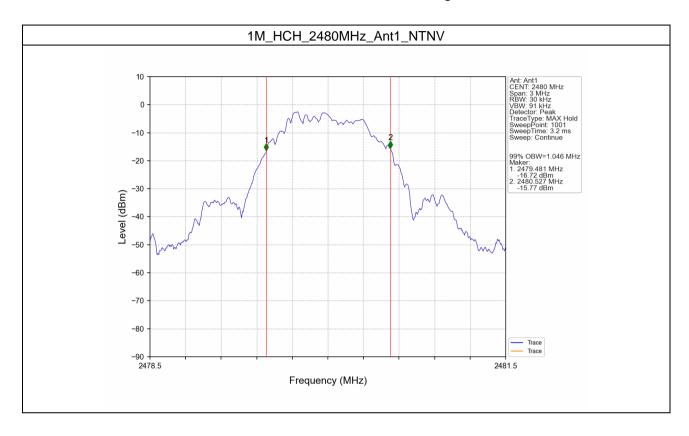
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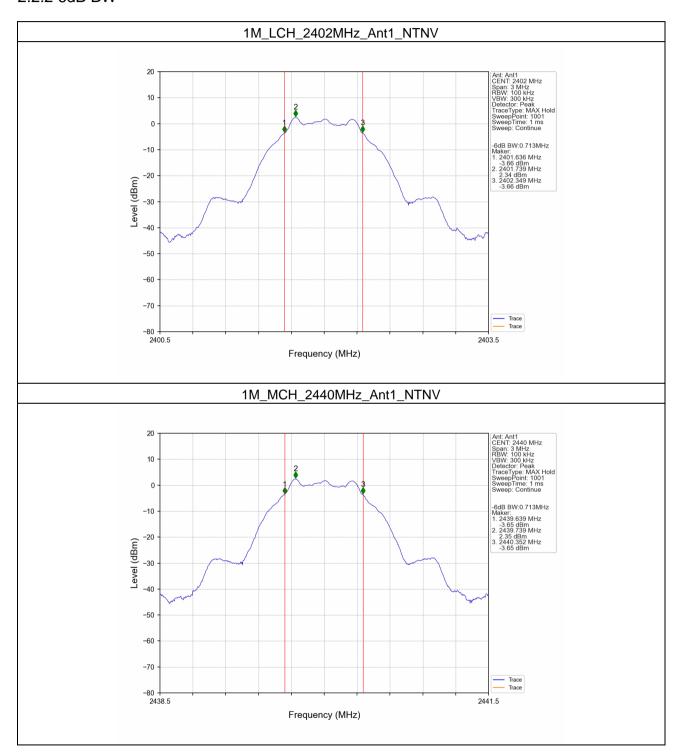


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2.2.2 6dB BW





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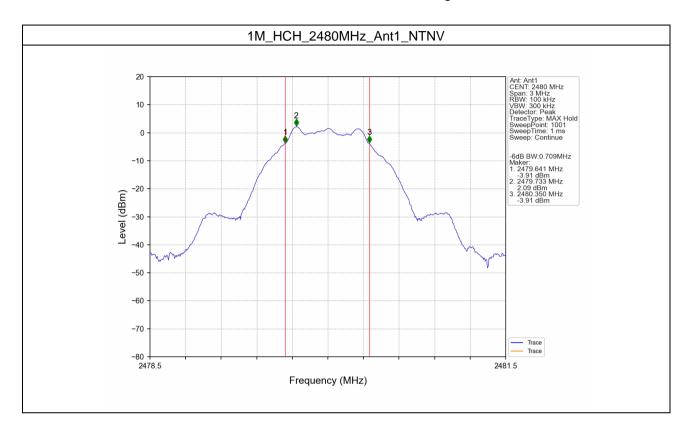
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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241200453403

> Page: 59 of 84

3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Frequency		Maximum Peak Conduc	Verdict	
Mode Type		(MHz)	ANT1	Limit	verdict
		2402	2.49	<=30	Pass
1M	SISO	2440	2.48	<=30	Pass
		2480	2.24	<=30	Pass

4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

Mada	TX Frequency		Maximum PS	Vandiat	
Mode Type		(MHz)	ANT1	Limit	Verdict
		2402	-12.81	<=8	Pass
1M	SISO	2440	-12.92	<=8	Pass
		2480	-13.02	<=8	Pass



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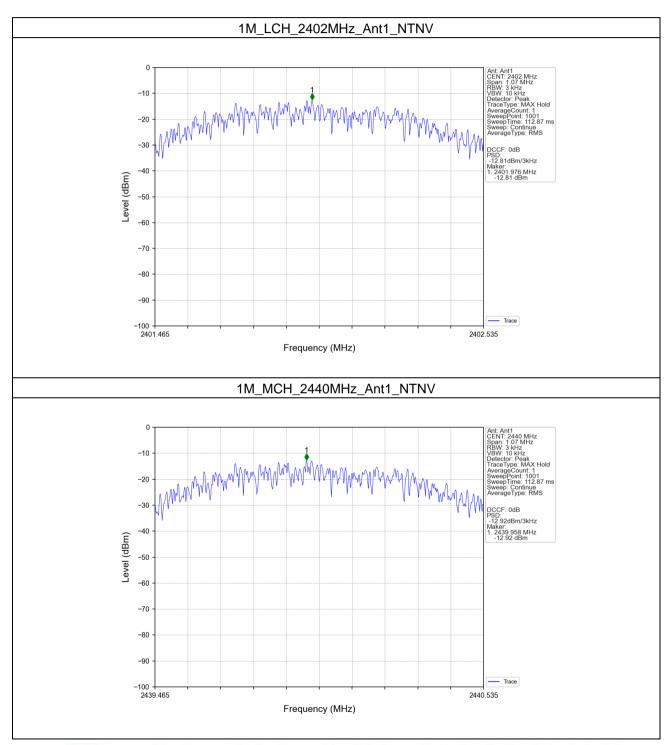
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Report No.: SZCR241200453403

Page: 60 of 84

4.2 Test Graph

4.2.1 PSD





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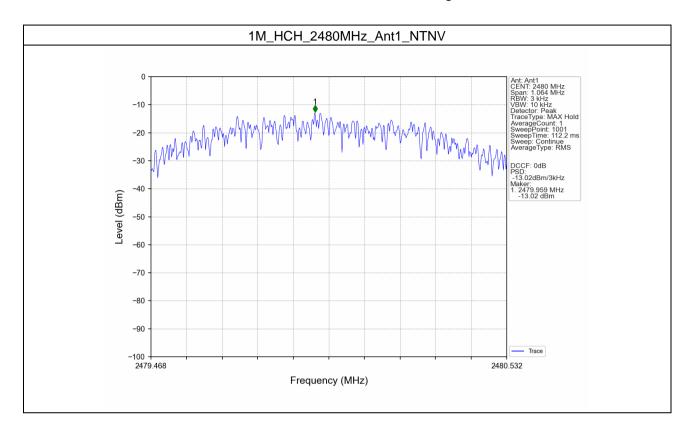
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Report No.: SZCR241200453403

Page: 61 of 84





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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200453403

Page: 62 of 84

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)
		2402	1	2.42
1M	SISO	2440	1	2.32
		2480	1	2.10

5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
		2402	1	2.42	-17.58	Pass
1M	SISO	2440	1	2.42	-17.58	Pass
		2480	1	2.42	-17.58	Pass



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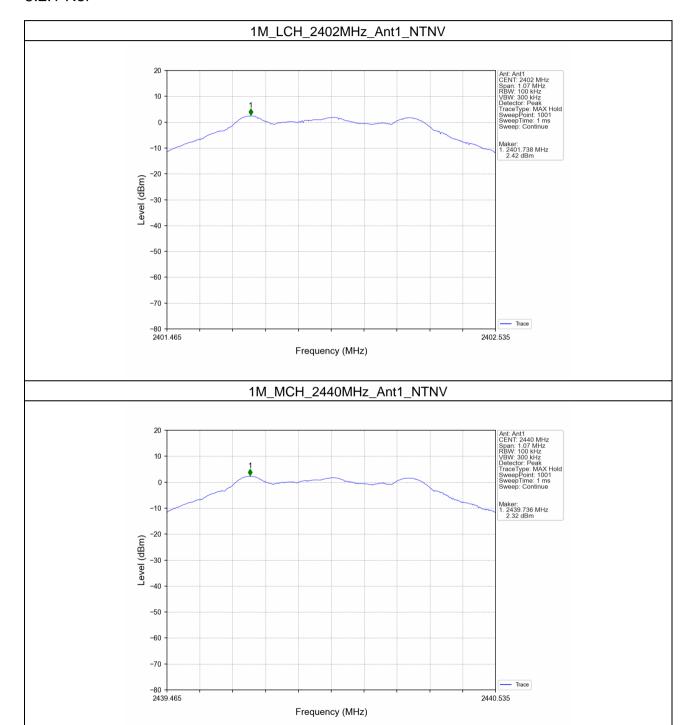
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Report No.: SZCR241200453403

Page: 63 of 84

5.2 Test Graph

5.2.1 Ref





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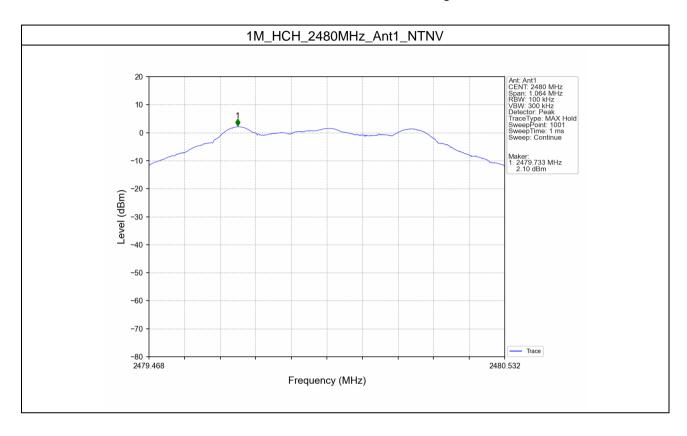
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Report No.: SZCR241200453403

Page: 64 of 84





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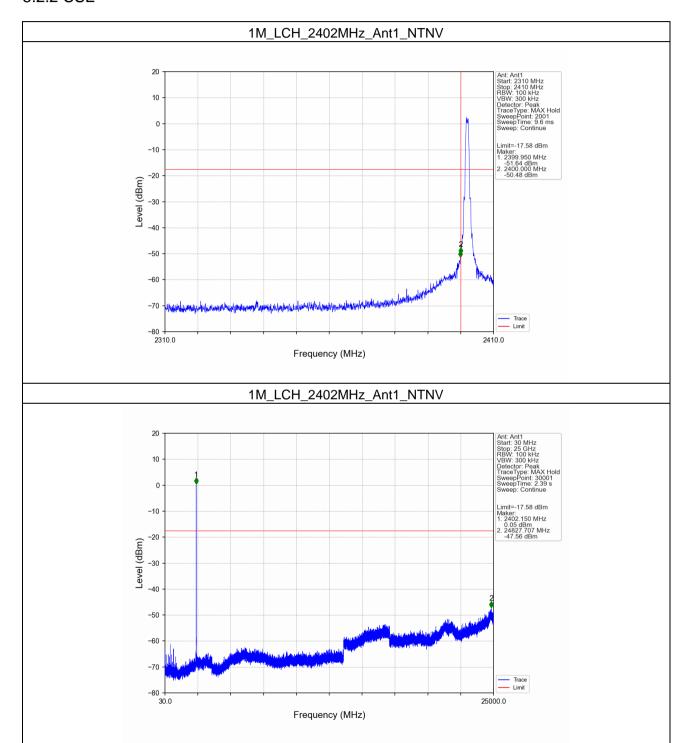


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Report No.: SZCR241200453403

Page: 65 of 84

5.2.2 CSE





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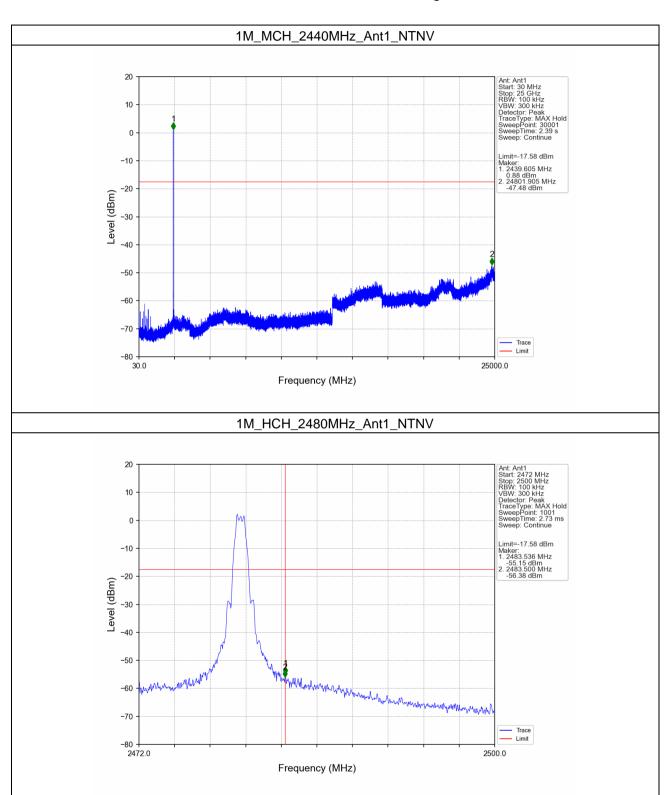
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Report No.: SZCR241200453403

Page: 66 of 84





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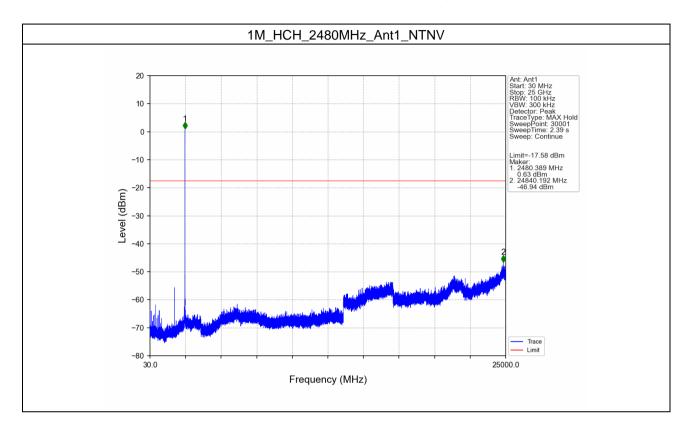
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> Page: 68 of 84

Left earbud:

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	0.625	65.60	1.83	0.00			
1M	SISO	2440	0.410	0.625	65.60	1.83	0.00			
		2480	0.410	0.625	65.60	1.83	0.05			



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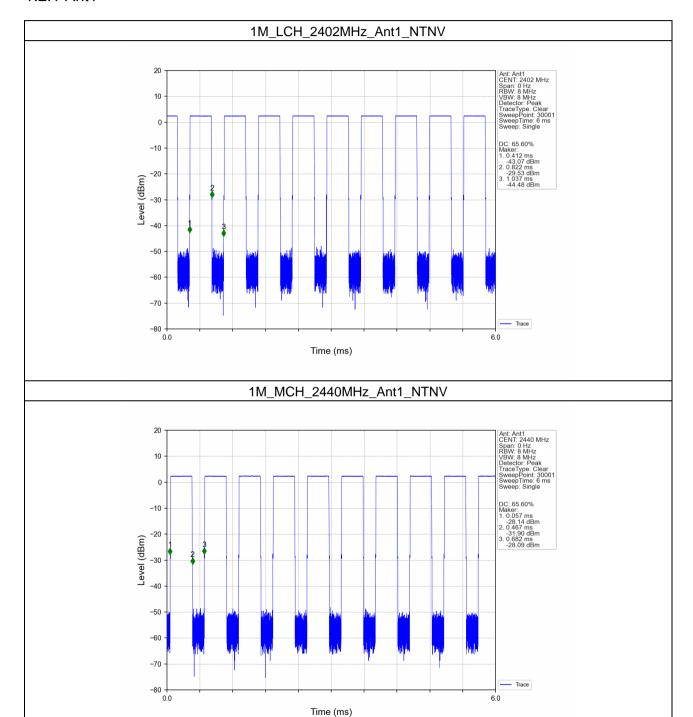
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Page: 69 of 84

1.2 Test Graph

1.2.1 Ant1





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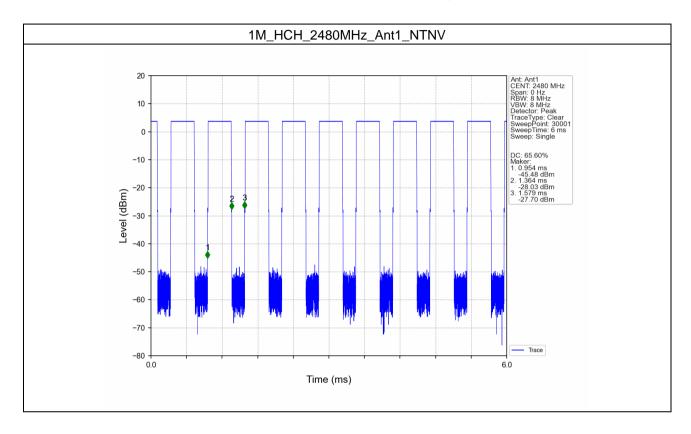
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> Page: 71 of 84

2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mada	TX	Frequency	ANT	99% Occupied E	Verdict	
Mode Type		(MHz)	AINT	Result	Limit	verdict
1M		2402	1	1.049	/	Pass
	SISO	2440	1	1.050	/	Pass
		2480	1	1.046	/	Pass

2.1.2 6dB BW

Mode	TX	Frequency		6dB Bandv	\/andiat	
Mode Type	Type		ANT	Result	Limit	Verdict
1M	SISO	2402	1	0.720	>=0.5	Pass
		2440	1	0.719	>=0.5	Pass
		2480	1	0.706	>=0.5	Pass



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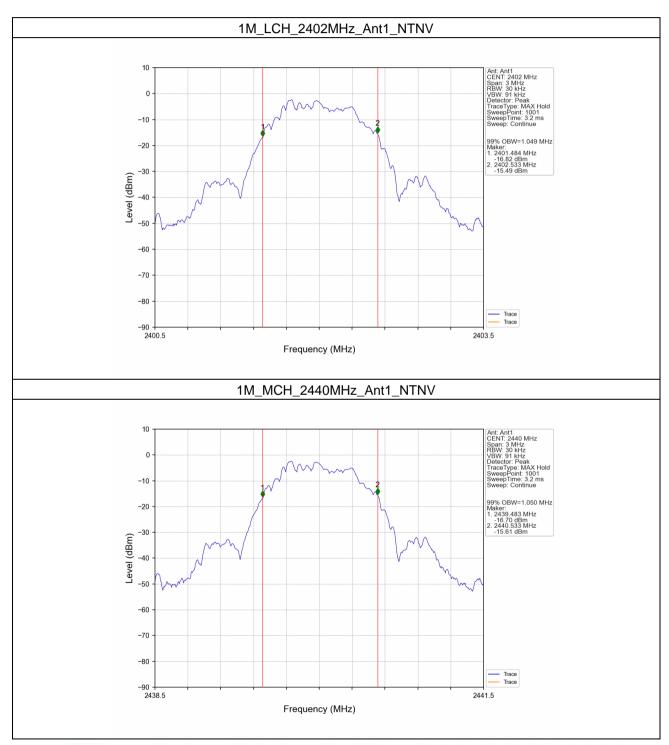
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Report No.: SZCR241200453403

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2.2 Test Graph

2.2.1 OBW





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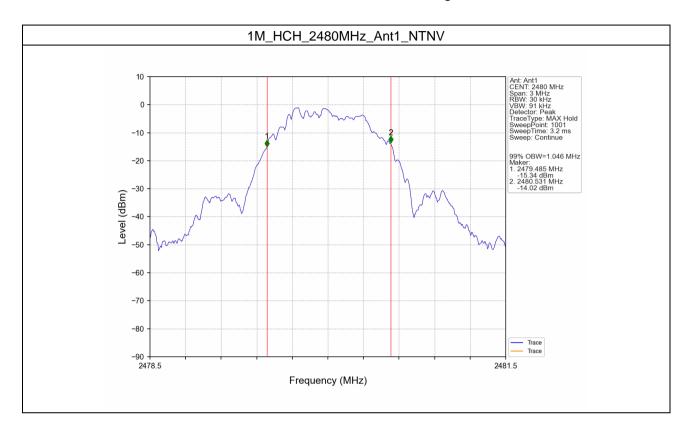
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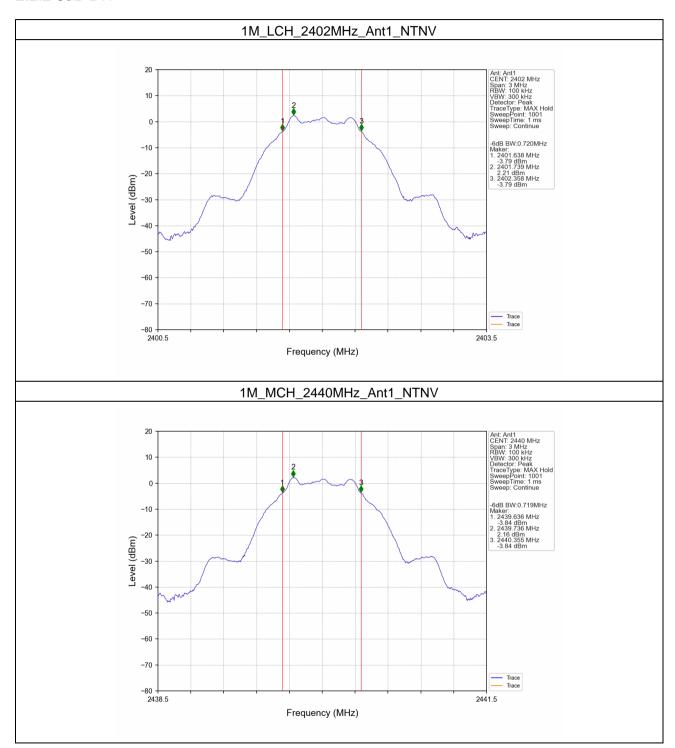


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Page: 74 of 84

2.2.2 6dB BW





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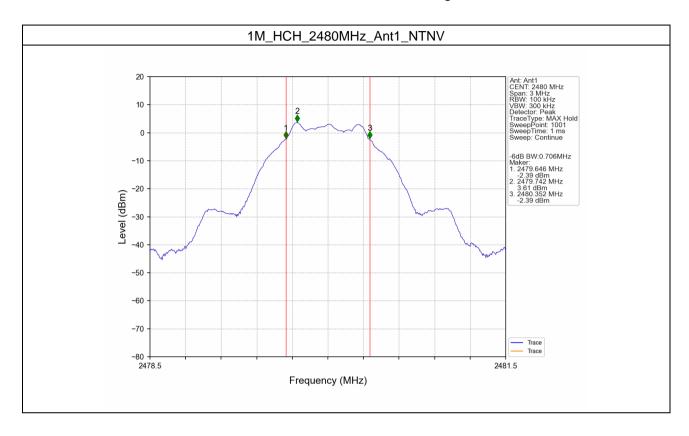
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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241200453403

> Page: 76 of 84

3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mada	TX	Frequency (MHz)	Maximum Peak Conduc	Vordict	
Mode	Type		ANT1	Limit	Verdict
	SISO	2402	2.38	<=30	Pass
1M		2440	2.35	<=30	Pass
		2480	3.75	<=30	Pass

4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

	Mode	TX Type	Frequency (MHz)	Maximum PSI	Vardiat	
	Mode			ANT1	Limit	Verdict
		SISO	2402	-12.99	<=8	Pass
	1M		2440	-12.96	<=8	Pass
			2480	-11.50	<=8	Pass



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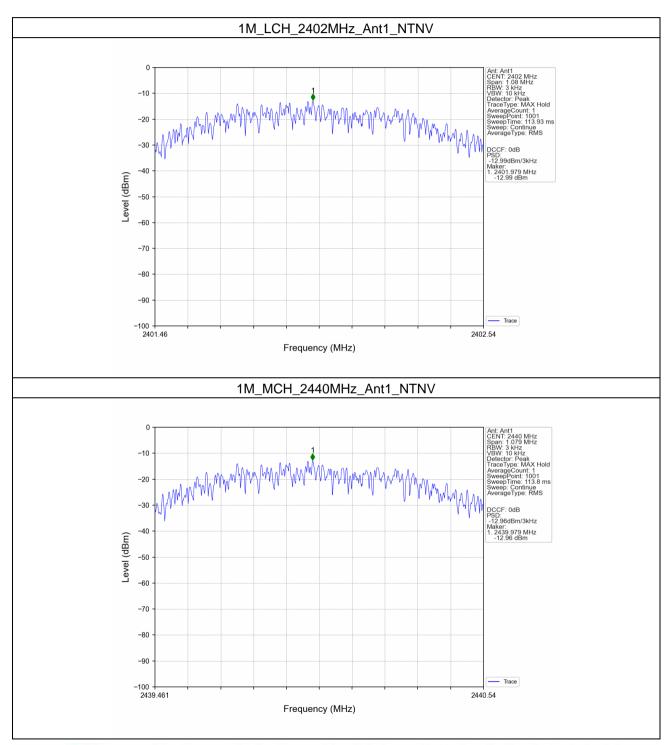
SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200453403

Page: 77 of 84

4.2 Test Graph

4.2.1 PSD





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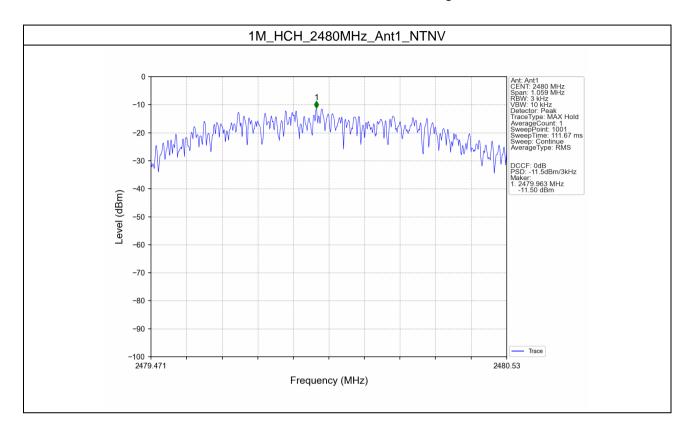
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200453403

Page: 78 of 84





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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200453403

Page: 79 of 84

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	2.20
1M		2440	1	2.18
TIVI		2480	1	3.63

5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
		2402	1	3.63	-16.37	Pass
1M	SISO	2440	1	3.63	-16.37	Pass
		2480	1	3.63	-16.37	Pass



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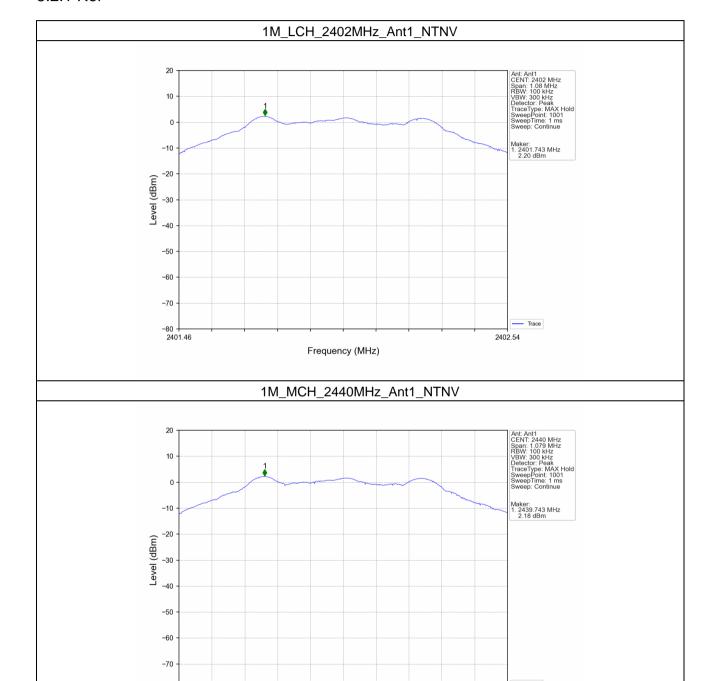
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Report No.: SZCR241200453403

Page: 80 of 84

5.2 Test Graph

5.2.1 Ref





2439.461

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Frequency (MHz)

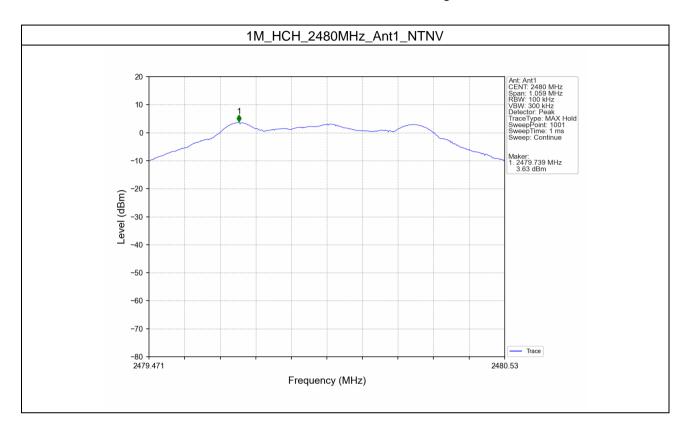
2440.54



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200453403

Page: 81 of 84





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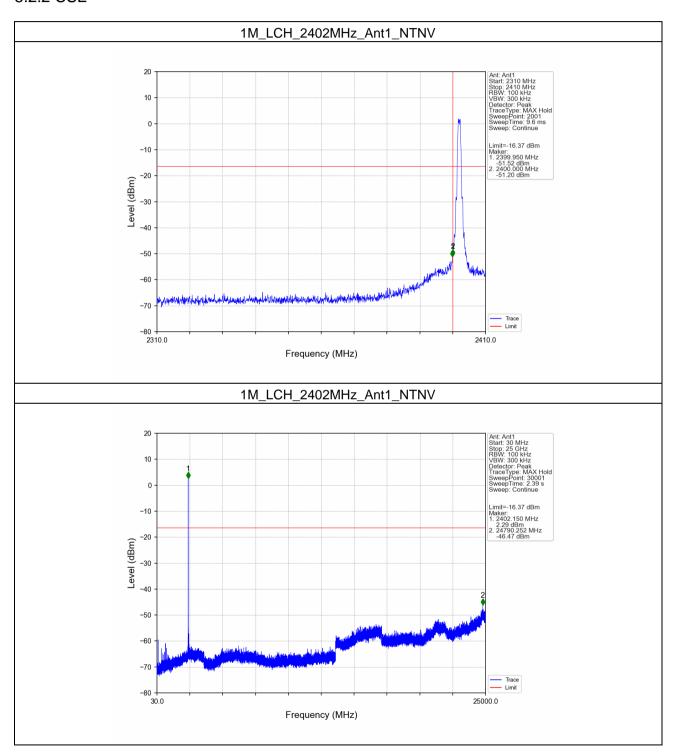


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Report No.: SZCR241200453403

Page: 82 of 84

5.2.2 CSE





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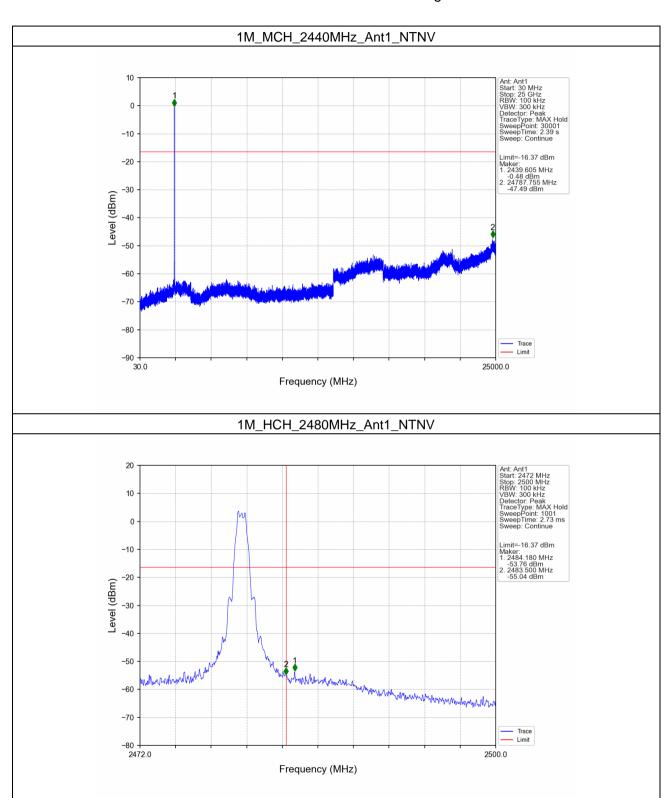
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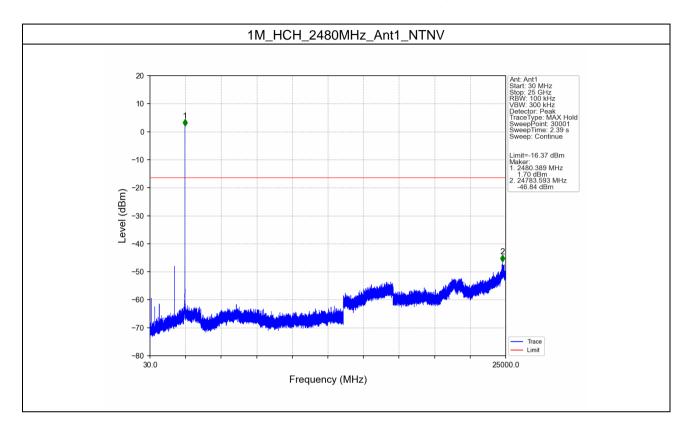
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