

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240300090903

Page: 1 of 132

# TEST REPORT

Application No.: SZCR2403000909AT

**Applicant:** Beyerdynamic

Address of Applicant: 56 Central Avenue, Farmingdale, New York 11735 United States

Manufacturer: Beverdynamic

Address of Manufacturer: 56 Central Avenue, Farmingdale, New York 11735 United States

Factory: Shenzhen Grandsun Electronic Co., Ltd.

Address of Factory: East Park, Gaogiao Industry Zone, Pingdi Street, Longgang, Shenzhen,

China

**Equipment Under Test (EUT):** 

EUT Name: VERIO 200

Model No.: VERIO 200

Trade Mark: beyerdynamic

FCC ID: OSDVERIO200

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

**Date of Receipt:** 2024-03-19

**Date of Test:** 2024-03-24 to 2024-03-29

**Date of Issue:** 2024-04-11

Test Result: Pass\*

Keny Xu EMC Laboratory Manager

Ceny. Ku



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



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

2 of 132 Page:

	Revision Record						
Version	Chapter	Date	Modifier	Remark			
01		2024-04-11		Original			

Authorized for issue by:		
	Charle Doi	
	Charlie Dai/Project Engineer	
	Exic Fu	
	Eric Fu/Reviewer	



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

3 of 132 Page:

#### 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/1

Report No.: SZCR240300090903

Page: 4 of 132

# 3 Contents

		Page
1	1 Cover Page	1
2	2 Test Summary	3
3		
J		
4		
	4.1 Details of E.U.T.	
	4.2 Description of Support Units	
	4.3 Measurement Uncertainty	
	4.4 Test Location	
	4.5 Test Facility	
	<ul><li>4.6 Deviation from Standards</li></ul>	
5	5 Equipment List	
6	Radio Spectrum Technical Requirement	15
•	·	
	6.1 Antenna Requirement	
	6.1.2 Conclusion	
7		
	7.1 Conducted Peak Output Power	
	7.1.1 E.U.T. Operation	
	7.1.2 Test Mode Description	
	7.1.3 Test Setup Diagram	14
	7.1.4 Measurement Procedure and Data	
	7.2 Minimum 6dB Bandwidth	
	7.2.1 E.U.T. Operation	
	7.2.2 Test Mode Description	
	7.2.3 Test Setup Diagram	
	7.3 Power Spectrum Density	
	7.3.1 E.U.T. Operation	
	7.3.2 Test Mode Description	
	7.3.3 Test Setup Diagram	
	7.3.4 Measurement Procedure and Data	
	7.4 Conducted Band Edges Measurement	
	7.4.1 E.U.T. Operation	
	7.4.2 Test Mode Description	
	7.4.3 Test Setup Diagram	18
	7.4.4 Measurement Procedure and Data	18
	7.5 Conducted Spurious Emissions	19
	7.5.1 E.U.T. Operation	19
	7.5.2 Test Mode Description	19
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

Page: 5 of 132

	7.5.3	Test Setup Diagram	20
	7.5.4	Measurement Procedure and Data	20
7.	.6 F	Radiated Emissions which fall in the restricted bands	21
	7.6.1	E.U.T. Operation	21
	7.6.2	Test Mode Description	21
	7.6.3	Test Setup Diagram	
	7.6.4	Measurement Procedure and Data	22
7.	.7 F	Radiated Spurious Emissions Below 1GHz	39
	7.7.1	E.U.T. Operation	39
	7.7.2	Test Mode Description	39
	7.7.3	Test Setup Diagram	40
	7.7.4	Measurement Procedure and Data	40
7.	.8 F	Radiated Spurious Emissions Above 1GHz	
	7.8.1	E.U.T. Operation	
	7.8.2	Test Mode Description	45
	7.8.3	Test Setup Diagram	45
	7.8.4	Measurement Procedure and Data	46
8	Test S	etup Photo	71
9	EUT C	onstructional Details (EUT Photos)	71
10	Apper	ndix	72
- •	- 1000		



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

Page: 6 of 132

# **General Information**

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

Power supply:	Left earbuds: Li-Ion Polymer Battery 3.7V 90mAh (Charge by travel case)
	Right earbuds: Li-Ion Polymer Battery 3.7V 90mAh (Charge by travel case)
	Travel case with backup battery: Li-Ion Polymer Battery 3.7V 1200mAh (Charged by Type-C port).
Cable(s):	USB-A to USB-C Cable 18.5cm Unshielded
Operation Frequency:	BLE 1Mbps: 2402MHz to 2480MHz; BLE 2Mbps: 2404MHz to 2478MHz (Excluding 2426MHz)
Bluetooth Version:	V5.3 Dual mode
Modulation Type:	GFSK
Number of Channels:	BLE 1Mbps: 40; BLE 2Mbps: 37
Channel Spacing:	2MHz
Antenna Type:	FPC Antenna
Antenna Gain:	Left earbuds: -2.06dBi; Right earbuds: -2.45dBi
Cable Loss (for RF conducted test):	0.7dB

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	± 6.0dB (Below 1GHz);± 4.6dB (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	$\pm$ 6.0dB for 3m; $\pm$ 5.0dB for 10m
Radiated Spurious Emissions Above 1GHz	± 4.6dB (1-18GHz);± 4.8dB (18- 40GHz)



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240300090903

> Page: 7 of 132

#### Remark:

The Ulab (lab Uncertainty) is less than Ucispr/ETSI (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240300090903

> Page: 8 of 132

#### 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

## **Abnormalities from Standard Conditions**

None



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

9 of 132 Page:

#### 5 **Equipment List**

Conducted Peak Output Power						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2023-03-28 2024-03-27	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	2023-10-19	2024-10-18	
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	2023-07-07	2024-07-06	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-28 2024-03-27	2024-03-27 2025-03-26	

Minimum 6dB Bandwidt	h				
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
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	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50-	SEM021-09	2023-03-28	2024-03-27
Allenualoi	Huber+Suriner	1	3EM021-09	2024-03-27	2025-03-26

Power Spectrum Density						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18	
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	2023-07-07	2024-07-06	
Attenuator	Huber+Suhner	6620_SMA-50-	SEM021-09	2023-03-28	2024-03-27	
Allendator	riubei+Suilliei	1	3EIVIUZ 1-09	2024-03-27	2025-03-26	



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

10 of 132 Page:

Conducted Band Edges Measurement						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18	
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	2023-07-07	2024-07-06	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-28 2024-03-27	2024-03-27 2025-03-26	

Conducted Spurious Emissions						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18	
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	2023-07-07	2024-07-06	
Attenuator	Huber+Suhner	6620_SMA-50-	SEM021-09	2023-03-28 2024-03-27	2024-03-27 2025-03-26	

Radiated Emissions wh	Radiated Emissions which fall in the restricted bands				
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	, <u> </u>		SEM001-02	2023-04-01	2026-03-31
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06
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	2024-03-15	2025-03-14



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Report No.: SZCR240300090903

Page: 11 of 132

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	2023-10-19	2024-10-18
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	2023-03-28 2024-03-27	2024-03-27 2025-03-26

Radiated Spurious Emissions Above 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	I AIIIIX I		SEM001-02	2023-04-01	2026-03-31
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06
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	2024-03-15	2025-03-14

General used equipment						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Humidity/ Temperature deli		8838	SEM002-32	2023-07-28	2024-07-27	
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2023-07-28	2024-07-27	
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.: SZCR240300090903

> Page: 12 of 132

#### 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

## 15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

## **EUT Antenna:**

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is Left earbuds: -2.06dBi; Right earbuds: -2.45dBi.

Antenna location: Refer to internal photos



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Report No.: SZCR240300090903

Page: 13 of 132

#### **Radio Spectrum Matter Test Results** 7

# 7.1 Conducted Peak Output Power

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

#### 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:

25.0 °C Humidity: 43.8 % RH Atmospheric Pressure: 1020 mbar Temperature:

#### 7.1.2 Test Mode Description

I.I.Z IESLIV	7.1.2 Test wode Description				
Pre-scan / Final test	Mode Code	Description			
Final test	02	TX mode(Left earbuds 1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.			
Final test	03	TX mode(Left earbuds 2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.			
Final test	06	TX mode(Right earbuds 1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.			
Final test	07	TX mode(Right earbuds 2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.			



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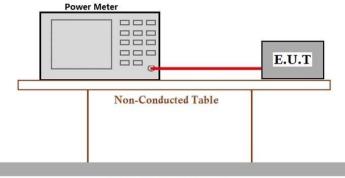


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

14 of 132 Page:

## 7.1.3 Test Setup Diagram



Ground Reference Plane

#### 7.1.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

Page: 15 of 132

## 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

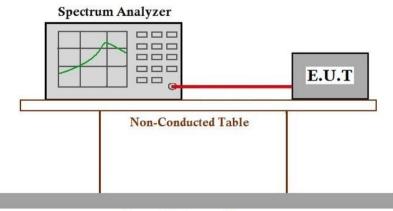
Operating Environment:

Temperature: Atmospheric Pressure: 1020 mbar 25.0 °C Humidity: 43.8 % RH

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description	
Final test	02	TX mode(Left earbuds 1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.	
Final test	03	TX mode(Left earbuds 2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.	
Final test	06	TX mode(Right earbuds 1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.	
Final test	07	TX mode(Right earbuds 2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.	

#### 7.2.3 Test Setup Diagram



**Ground Reference Plane** 

# 7.2.4 Measurement Procedure and Data

## Please Refer to Appendix for Details



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

Page: 16 of 132

## 7.3 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

## 7.3.1 E.U.T. Operation

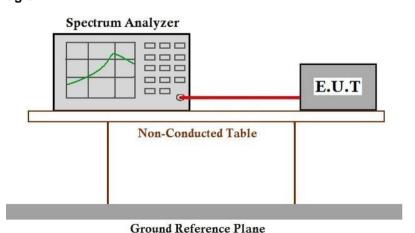
Operating Environment:

Temperature: 25.0 °C Humidity: 43.8 % RH Atmospheric Pressure: 1020 mbar

## 7.3.2 Test Mode Description

7.0.2 1000	7.0.2 Test mode besomption			
Pre-scan / Final test	Mode Code	Description		
Final test	02	TX mode(Left earbuds 1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.		
Final test	03	TX mode(Left earbuds 2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.		
Final test	06	TX mode(Right earbuds 1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.		
Final test	07	TX mode(Right earbuds 2Mbps)_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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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

Page: 17 of 132

# 7.4 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).

## 7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 25.0 °C Humidity: 43.8 % RH Atmospheric Pressure: 1020 mbar

## 7.4.2 Tost Mode Description

7.4.2 TESLIV	7.4.2 Test mode description				
Pre-scan / Final test	Mode Code	Description			
Final test	02	TX mode(Left earbuds 1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.			
Final test	03	TX mode(Left earbuds 2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.			
Final test	06	TX mode(Right earbuds 1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.			
Final test	07	TX mode(Right earbuds 2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.			



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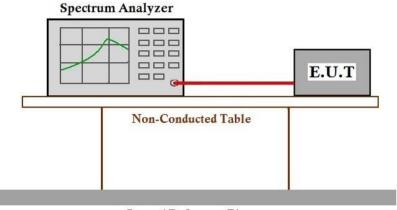


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

Page: 18 of 132

## 7.4.3 Test Setup Diagram



Ground Reference Plane

## 7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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Report No.: SZCR240300090903

Page: 19 of 132

## 7.5 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).

## 7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 25.0 °C Humidity: 43.8 % RH Atmospheric Pressure: 1020 mbar

#### 7.5.2 Test Mode Description

	Tiel Test mede Peser puer			
Pre-scan / Final test	Mode Code	Description		
Final test	02	TX mode(Left earbuds 1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.		
Final test	03	TX mode(Left earbuds 2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.		
Final test	06	TX mode(Right earbuds 1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.		
Final test	07	TX mode(Right earbuds 2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.		



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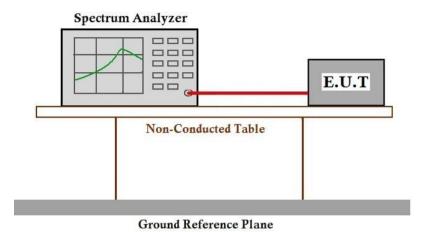
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> Page: 20 of 132

## 7.5.3 Test Setup Diagram



## 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.: SZCR240300090903

Page: 21 of 132

## 7.6 Radiated Emissions which fall in the restricted bands

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

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

Measurement Distance: 3m

Limit:

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

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

## 7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 21.6 °C Humidity: 48.5 % RH Atmospheric Pressure: 1020 mbar

#### 7.6.2 Test Mode Description

11012 1 001 m 0 0 0 0 0 m p m 0 m								
Pre-scan / Final test	Mode Code	Description						
Final test	02	TX mode(Left earbuds 1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.						
Final test	03	TX mode(Left earbuds 2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.						
Final test	06	TX mode(Right earbuds 1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.						
Final test	07	TX mode(Right earbuds 2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.						



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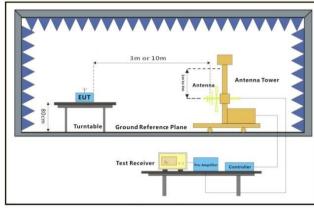


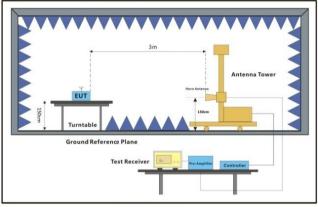
SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

Page: 22 of 132

### 7.6.3 Test Setup Diagram





30MHz-1GHz

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
- q. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.
- Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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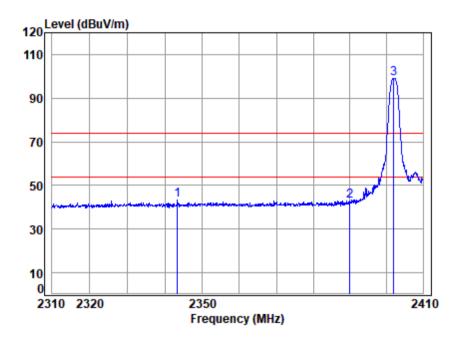


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

Page: 23 of 132

Test Mode: 02; Polarity: Horizontal; Modulation: GFSK; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL : 00909AT/00910AT Mode : 2402 Band edge

: BLF 1M Note

OCC										
		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	2343.327	5.03	29.01	37.55	46.89	43.38	74.00	-30.62	peak	
2	2390.000	5.08	29.10	37.44	45.96	42.70	74.00	-31.30	peak	
3 p	2402.000	5.09	29.09	37.41	102.29	99.06	74.00	25.06	peak	



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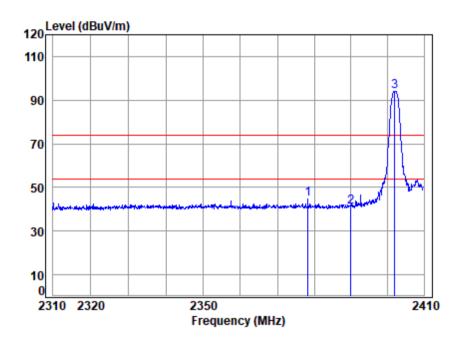


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

Page: 24 of 132

Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 00909AT/00910AT Mode : 2402 Band edge

: BLF 1M Note

OCC										
		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	2378.243	5.06	29.10	37.46	47.79	44.49	74.00	-29.51	peak	
2	2390.000	5.08	29.10	37.44	44.53	41.27	74.00	-32.73	peak	
3 p	2402.000	5.09	29.09	37.41	97.24	94.01	74.00	20.01	peak	



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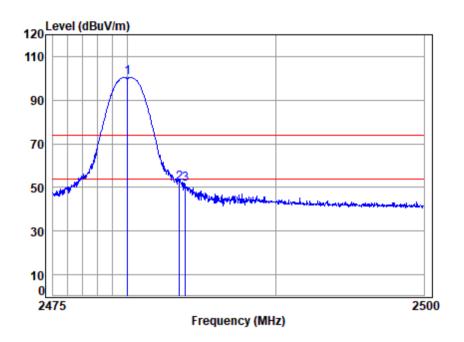


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

Page: 25 of 132

Test Mode: 02; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL : 00909AT/00910AT Mode : 2480 Band edge

Note : BLE 1M

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 p	2480.000	5.16	28.90	37.22	103.46	100.30	74.00	26.30	peak	
2	2483.500	5.16	28.90	37.22	55.31	52.15	74.00	-21.85	peak	
3	2483.896	5.16	28.90	37.22	54.64	51.48	74.00	-22.52	neak	



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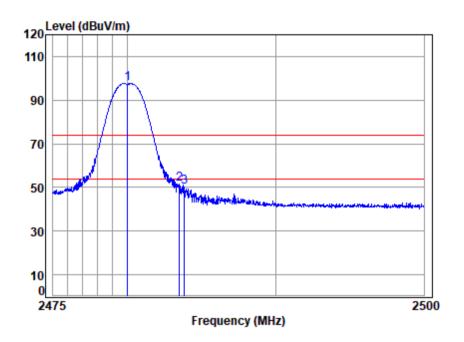


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

Page: 26 of 132

Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 00909AT/00910AT Mode : 2480 Band edge

Note : BLF 1M

0.00										
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 p	2480.000	5.16	28.90	37.22	100.69	97.53	74.00	23.53	peak	
2	2483.500	5.16	28.90	37.22	54.60	51.44	74.00	-22.56	peak	
3	2483.821	5.16	28.90	37.22	53.26	50.10	74.00	-23.90	peak	



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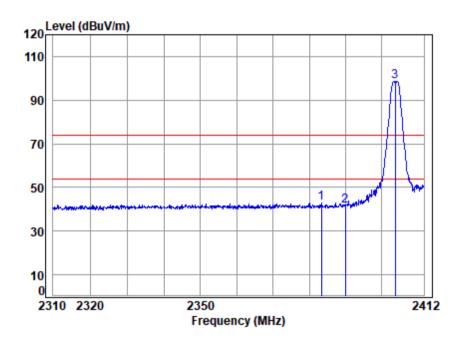


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

Page: 27 of 132

Test Mode: 03; Polarity: Horizontal; Modulation: GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 00909AT/00910AT Mode : 2404 Band edge

Note : BLF 2M

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2383.406	5.07	29.10	37.45	46.38	43.10	74.00	-30.90	peak	
2	2390.000	5.08	29.10	37.44	44.64	41.38	74.00	-32.62	peak	
3 r	2404.000	5.09	29.08	37.40	101.86	98.63	74.00	24.63	neak	



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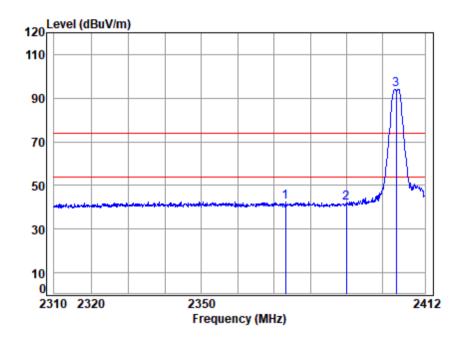


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

Page: 28 of 132

Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 00909AT/00910AT Mode : 2404 Band edge

Note : BLE 2M

1

_										
		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		
	2373.130	5.06	29.10	37.48	45.94	42.62	74.00	-31.38	peak	
2	2390.000	5.08	29.10	37.44	45.23	41.97	74.00	-32.03	peak	
n	2404,000	5.09	29.08	37.40	97.27	94.04	74.00	20.04	neak	



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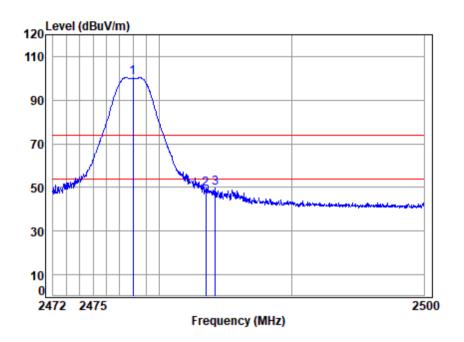


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

Page: 29 of 132

Test Mode: 03; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL : 00909AT/00910AT Mode : 2478 Band edge

Note : BLF 2M

OCC										
		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	2478.000	5.16	28.90	37.23	103.52	100.35	74.00	26.35	peak	
2	2483.500	5.16	28.90	37.22	52.48	49.32	74.00	-24.68	peak	
3	2484.225	5.16	28,90	37.21	53.05	49.90	74.00	-24.10	peak	



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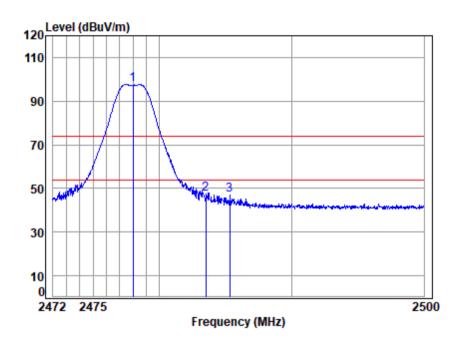


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

Page: 30 of 132

Test Mode: 03; Polarity: Vertical; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m VERTICAL

: 00909AT/00910AT Mode : 2478 Band edge

Note : BLE 2M

> 1 2

_		211								
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
р	2478.000	5.16	28.90	37.23	100.87	97.70	74.00	23.70	peak	
2	2483.500	5.16	28.90	37.22	50.39	47.23	74.00	-26.77	peak	
3	2485.317	5.16	28.90	37.21	50.27	47.12	74.00	-26.88	peak	



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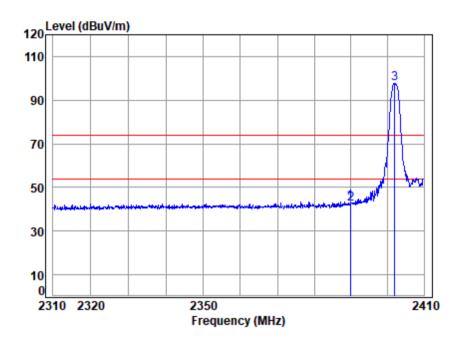


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

Page: 31 of 132

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



Site : chamber

Condition: 3m HORIZONTAL : 00909AT/00910AT Mode : 2402 Band edge

Note : BLF 1M

OCC										
		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	2389.862	5.08	29.10	37.44	46.67	43.41	74.00	-30.59	peak	
2	2390.000	5.08	29.10	37.44	45.60	42.34	74.00	-31.66	peak	
3 p	2402,000	5.09	29.09	37.41	100.68	97.45	74.00	23.45	peak	



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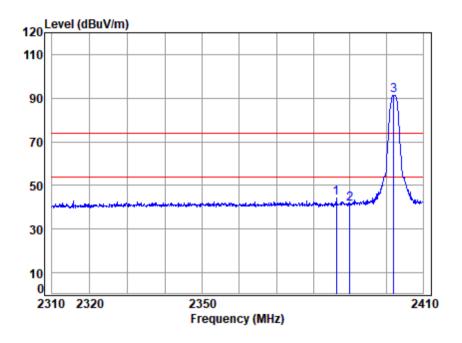


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

Page: 32 of 132

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



Site : chamber

Condition: 3m VERTICAL

: 00909AT/00910AT Mode : 2402 Band edge

: BLF 1M Note

OCC										
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2386.320	5.07	29.10	37.44	47.37	44.10	74.00	-29.90	peak	
2	2390.000	5.08	29.10	37.44	44.98	41.72	74.00	-32.28	peak	
3 p	2402.000	5.09	29.09	37.41	94.52	91.29	74.00	17.29	peak	



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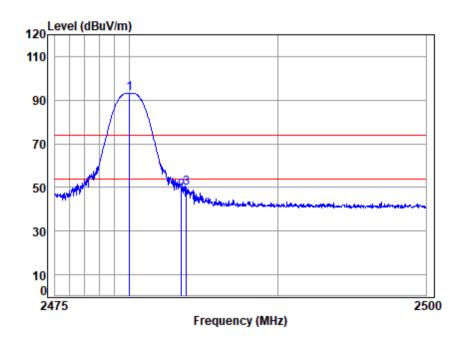


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

Page: 33 of 132

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



Site : chamber

Condition: 3m HORIZONTAL : 00909AT/00910AT Mode : 2480 Band edge

Note : BLF 1M

,,,,										
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 p	2480.000	5.16	28.90	37.22	96.18	93.02	74.00	19.02	peak	
2	2483.500	5.16	28.90	37.22	51.71	48.55	74.00	-25.45	peak	
3	2483.821	5.16	28.90	37.22	52.71	49.55	74.00	-24.45	peak	



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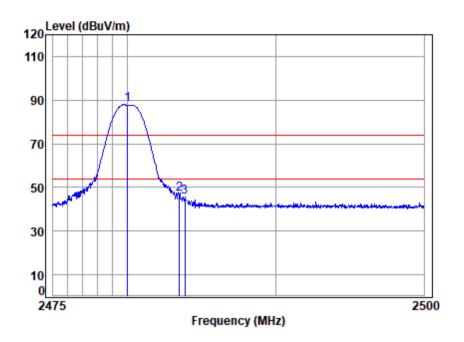


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

Page: 34 of 132

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



Site : chamber

Condition: 3m VERTICAL

: 00909AT/00910AT Mode : 2480 Band edge

: BLF 1M Note

OCC										
		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	2480.000	5.16	28.90	37.22	91.08	87.92	74.00	13.92	peak	
2	2483.500	5.16	28.90	37.22	50.11	46.95	74.00	-27.05	peak	
3	2483.846	5.16	28.90	37.22	48.92	45.76	74.00	-28.24	peak	



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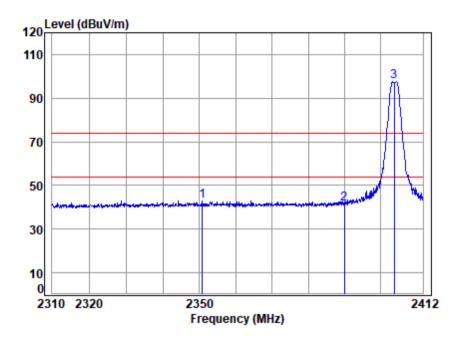


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

Page: 35 of 132

Test Mode: 07; Polarity: Horizontal; Modulation: GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 00909AT/00910AT Mode : 2404 Band edge

Note : BLF 2M

000		211								
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
_										
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2350.780	5.04	29.10	37.53	46.35	42.96	74.00	-31.04	peak	
2	2390.000	5.08	29.10	37.44	44.73	41.47	74.00	-32.53	peak	
3 p	2404.000	5.09	29.08	37.40	100.70	97.47	74.00	23.47	peak	



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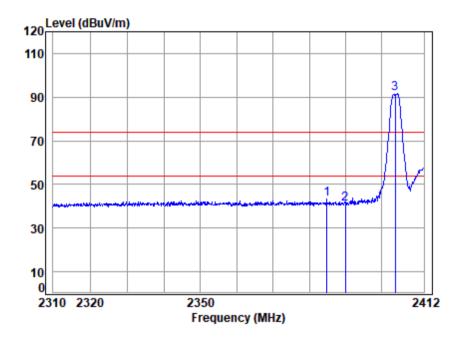


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

Page: 36 of 132

Test Mode: 07; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 00909AT/00910AT Mode : 2404 Band edge

Note : BLF 2M

OCC		211								
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2384.848	5.07	29.10	37.45	46.42	43.14	74.00	-30.86	peak	
2	2390.000	5.08	29.10	37.44	44.10	40.84	74.00	-33.16	peak	
3 p	2404,000	5.09	29.08	37.40	94.73	91.50	74.00	17.50	peak	



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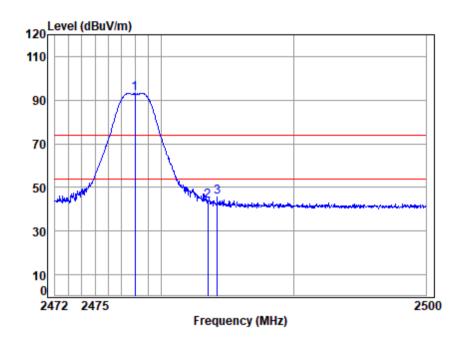


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

Page: 37 of 132

Test Mode: 07; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL : 00909AT/00910AT Mode : 2478 Band edge

Note : BLE 2M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	2478.000	5.16	28.90	37.23	96.36	93.19	74.00	19.19	peak
2	2483.500	5.16	28.90	37.22	46.81	43.65	74.00	-30.35	peak
3	2484 197	5 16	28 90	37 21	48 57	45 42	74 99	-28 58	neak



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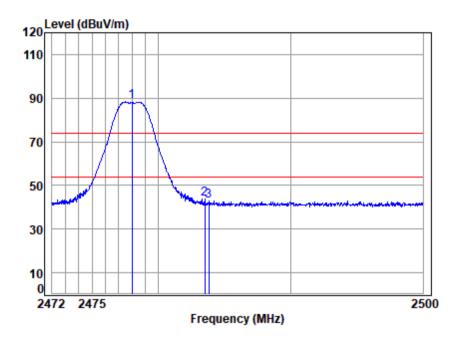


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

Page: 38 of 132

Test Mode: 07; Polarity: Vertical; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m VERTICAL

: 00909AT/00910AT Mode : 2478 Band edge

Note : BLE 2M

> 1 2

_		211								
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
р	2478.000	5.16	28.90	37.23	91.48	88.31	74.00	14.31	peak	
2	2483.500	5.16	28.90	37.22	46.79	43.63	74.00	-30.37	peak	
3	2483.805	5.16	28,90	37.22	46.00	42.84	74.00	-31.16	peak	



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

Page: 39 of 132

#### 7.7 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

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

Operating Environment:

Temperature: 23.2 °C Atmospheric Pressure: 1020 mbar Humidity: 50.5 % RH

#### 7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description					
Pre-scan	02	TX mode(Left earbuds 1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.					
Final test	03	X mode(Left earbuds 2Mbps)_Keep the EUT in continuously transmitting mode with FSK modulation.					
Pre-scan	06	TX mode(Right earbuds 1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.					
Final test	07	TX mode(Right earbuds 2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.					



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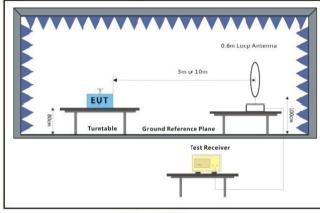


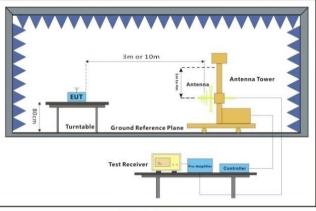
SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

Page: 40 of 132

#### 7.7.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz

#### 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.
- a. 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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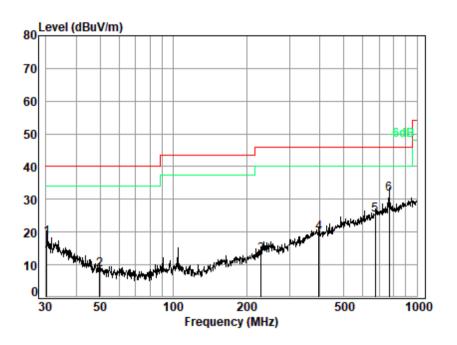


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

41 of 132 Page:

Test Mode: 03; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 00909AT

Test Mode: 03

		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	30.21	21.10	0.64	27.80	24.45	18.39	40.00	-21.61	QP
2	49.88	12.79	0.83	27.75	22.70	8.57	40.00	-31.43	QP
3	229.29	16.34	1.86	27.14	22.09	13.15	46.00	-32.85	QP
4	396.24	20.69	2.54	27.32	23.79	19.70	46.00	-26.30	QP
5	675.21	25.71	3.44	28.00	23.98	25.13	46.00	-20.87	QP
6 q	768.75	26.67	3.73	27.71	28.83	31.52	46.00	-14.48	QP



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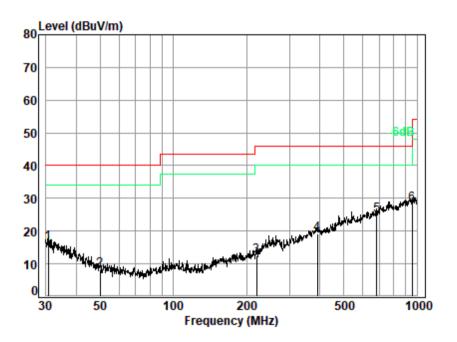


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

42 of 132 Page:

Test Mode: 03; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No. : 00909AT

Test Mode: 03

		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	30.64	20.90	0.65	27.80	22.69	16.44	40.00	-23.56	QP
2	50.06	12.75	0.83	27.75	22.33	8.16	40.00	-31.84	QP
3	219.84	15.14	1.82	27.18	22.83	12.61	46.00	-33.39	QP
4	390.72	20.75	2.51	27.30	23.23	19.19	46.00	-26.81	QP
5	684.75	25.76	3.46	27.97	23.59	24.84	46.00	-21.16	QP
6 q	955.44	28.13	4.23	26.86	22.74	28.24	46.00	-17.76	QP



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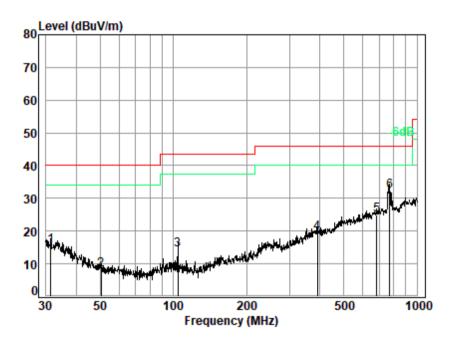


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

43 of 132 Page:

Test Mode: 07; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 00909AT

Test Mode: 07

		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	31.40	20.55	0.66	27.80	22.25	15.66	40.00	-24.34	QP
2	50.59	12.67	0.84	27.75	22.37	8.13	40.00	-31.87	QP
3	104.17	12.23	1.21	27.59	28.51	14.36	43.50	-29.14	QP
4	390.72	20.75	2.51	27.30	23.47	19.43	46.00	-26.57	QP
5	684.75	25.76	3.46	27.97	23.56	24.81	46.00	-21.19	QP
6 q	771.45	26.76	3.74	27.70	29.43	32.23	46.00	-13.77	QP



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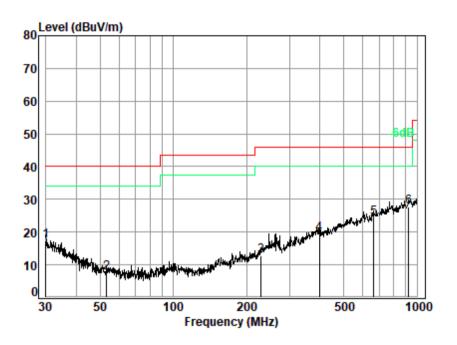


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

44 of 132 Page:

Test Mode: 07; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL Job No. : 00909AT

Test Mode: 07

			nt Cable Preamp or Loss Factor						
_	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.00	21.20	0.64	27.80	23.16	17.20	40.00	-22.80	QP
2	53.13	12.27	0.86	27.74	22.36	7.75	40.00	-32.25	QP
3	229.29	16.34	1.86	27.14	21.86	12.92	46.00	-33.08	QP
4	397.63	20.67	2.54	27.33	23.48	19.36	46.00	-26.64	QР
5	665.80	25.39	3.41	28.03	23.70	24.47	46.00	-21.53	QР
6 a	925 76	28 13	4 16	27 01	22 51	27 79	46 99	-18 21	OP



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

Page: 45 of 132

#### 7.8 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

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

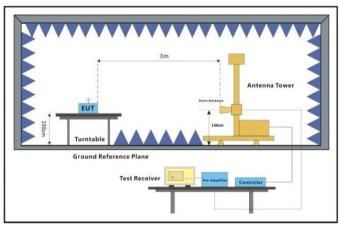
Operating Environment:

Temperature: 21.6 °C Atmospheric Pressure: 1020 mbar Humidity: 48.5 % RH

#### 7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description							
Final test	02	TX mode(Left earbuds 1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.							
Final test	03	X mode(Left earbuds 2Mbps)_Keep the EUT in continuously transmitting mode with FSK modulation.							
Final test	06	TX mode(Right earbuds 1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.							
Final test	07	TX mode(Right earbuds 2Mbps)_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/1 Report No.: SZCR240300090903

> Page: 46 of 132

#### 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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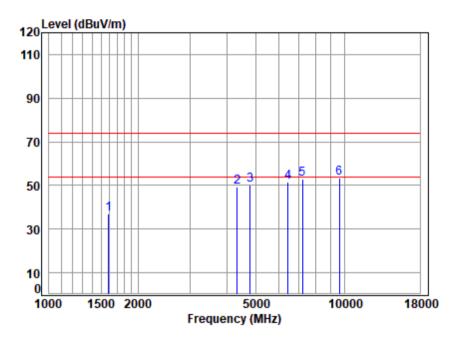


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

Page: 47 of 132

Test Mode: 02; Polarity: Horizontal; Modulation: GFSK; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL : 00909AT/00910AT Mode : 2402 TX RSE

: BLE 1M

Cable Ant Preamp Read Limit Over Loss Factor Factor Level Level Line Limit Remark MHz dB dBuV dBuV/m dBuV/m dB/m dΒ dB 1592.571 26.83 38.40 44.46 37.08 74.00 -36.92 peak 4.19 4329.354 7.01 34.23 35.85 43.82 49.21 74.00 -24.79 peak 7.31 34.32 35.52 44.09 50.20 74.00 -23.80 peak 4804.000 8.51 35.40 35.20 42.96 51.67 74.00 -22.33 peak 6432.732 7206.000 9.18 35.70 35.79 43.71 52.80 74.00 -21.20 peak 6 p 9608.000 12.36 37.42 37.46 40.95 53.27 74.00 -20.73 peak



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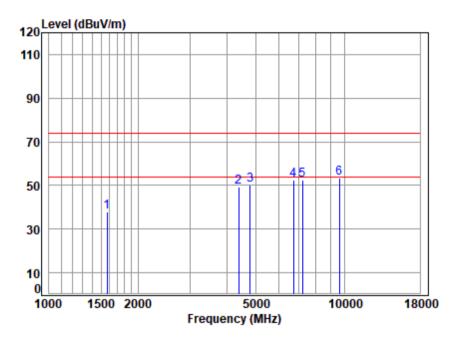


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

Page: 48 of 132

Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 00909AT/00910AT

Mode : 2402 TX RSE

: BLE 1M

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	15	74.265	4.17	26.90	38.40	45.01	37.68	74.00	-36.32	peak
2	43	92.376	7.05	34.74	35.80	43.29	49.28	74.00	-24.72	peak
3	48	04.000	7.31	34.32	35.52	44.02	50.13	74.00	-23.87	peak
4	67	17.762	8.72	35.20	35.39	43.94	52.47	74.00	-21.53	peak
5	72	06.000	9.18	35.70	35.79	43.57	52.66	74.00	-21.34	peak
6	p 96	08.000	12.36	37.42	37.46	40.92	53.24	74.00	-20.76	peak



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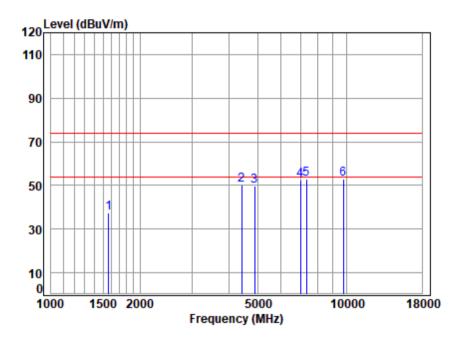


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

Page: 49 of 132

Test Mode: 02; Polarity: Horizontal; Modulation: GFSK; Channel: middle



Site : chamber

Condition: 3m HORIZONTAL : 00909AT/00910AT Mode

: 2440 TX RSE

: BLE 1M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1569.721	4.16	26.92	38.40	44.73	37.41	74.00	-36.59	peak
2	4417.841	7.07	34.59	35.78	44.15	50.03	74.00	-23.97	peak
3	4880.000	7.36	34.62	35.47	43.34	49.85	74.00	-24.15	peak
4	6995.172	8.92	35.71	35.57	43.28	52.34	74.00	-21.66	peak
5	7320.000	9.32	35.70	35.90	43.73	52.85	74.00	-21.15	peak
6 p	9760.000	12.47	37.38	37.43	40.57	52.99	74.00	-21.01	peak



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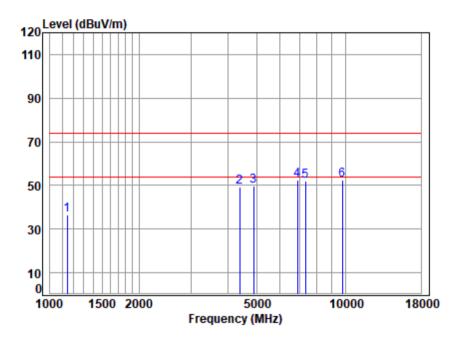


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

Page: 50 of 132

Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m VERTICAL

: 00909AT/00910AT

Mode : 2440 TX RSE

: BLE 1M

					Preamp					
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	_	MHz		dB/m	dB		dBuV/m	dBuV/m	——dB	
		14112	ub.	ub/ III	ub	abav	abav/III	abav/III	ub	
1	13	142.201	3.48	23.87	38.33	47.33	36.35	74.00	-37.65	peak
2	4	379.699	7.04	34.64	35.81	43.46	49.33	74.00	-24.67	peak
3	48	880.000	7.36	34.62	35.47	43.31	49.82	74.00	-24.18	peak
4	68	874.906	8.83	35.55	35.49	43.54	52.43	74.00	-21.57	peak
5	7	320.000	9.32	35.70	35.90	42.90	52.02	74.00	-21.98	peak
6	p 97	760.000	12.47	37.38	37.43	40.09	52.51	74.00	-21.49	peak



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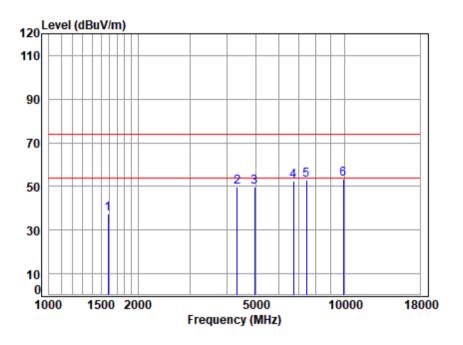


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

Page: 51 of 132

Test Mode: 02; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL : 00909AT/00910AT Mode : 2480 TX RSE

: BLE 1M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1587.975	4.18	26.85	38.40	44.66	37.29	74.00	-36.71	peak
2	4341.886	7.02	34.34	35.84	44.05	49.57	74.00	-24.43	peak
3	4960.000	7.41	34.56	35.42	43.07	49.62	74.00	-24.38	peak
4	6717.762	8.72	35.20	35.39	43.83	52.36	74.00	-21.64	peak
5	7440.000	9.46	35.96	36.02	43.58	52.98	74.00	-21.02	peak
6	p 9920.000	12.58	37.30	37.39	40.97	53.46	74.00	-20.54	peak



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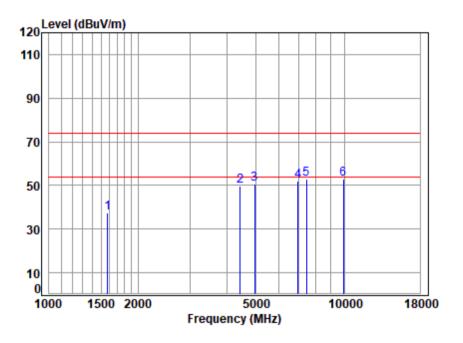


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

Page: 52 of 132

Test Mode: 02; Polarity: Vertical; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m VERTICAL

: 00909AT/00910AT

Mode : 2480 TX RSE

: BLE 1M

		Freq			Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1578.822	4.17	26.88	38.40	44.90	37.55	74.00	-36.45	peak
2		4430.628	7.08	34.43	35.77	44.00	49.74	74.00	-24.26	peak
3		4960.000	7.41	34.56	35.42	44.02	50.57	74.00	-23.43	peak
4		6954.852	8.89	35.79	35.54	42.97	52.11	74.00	-21.89	peak
5		7440.000	9.46	35.96	36.02	43.53	52.93	74.00	-21.07	peak
6	р	9920.000	12.58	37.30	37.39	40.47	52.96	74.00	-21.04	peak



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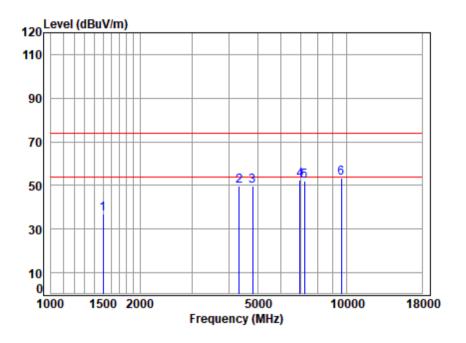


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

Page: 53 of 132

Test Mode: 03; Polarity: Horizontal; Modulation: GFSK; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL : 00909AT/00910AT

Mode : 2404 TX RSE

: BLE 2M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	aB/m	dB	aBuv	aBuv/m	aBuv/m	dB	
1	1503.119	4.07	26.81	38.39	44.38	36.87	74.00	-37.13	peak
2	4329.354	7.01	34.23	35.85	44.17	49.56	74.00	-24.44	peak
3	4808.000	7.32	34.33	35.51	43.65	49.79	74.00	-24.21	peak
4	6954.852	8.89	35.79	35.54	43.13	52.27	74.00	-21.73	peak
5	7212.000	9.18	35.70	35.79	43.03	52.12	74.00	-21.88	peak
6	p 9616.000	12.37	37.43	37.46	41.18	53.52	74.00	-20.48	peak



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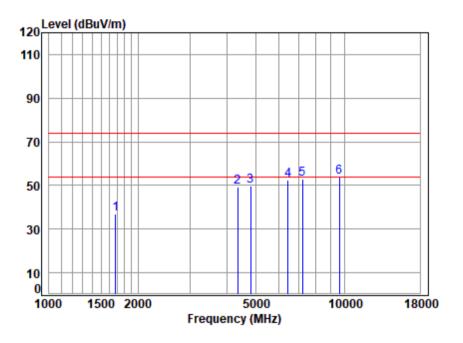


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

Page: 54 of 132

Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 00909AT/00910AT

Mode : 2404 TX RSE

: BLE 2M

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1677.621	4.30	26.24	38.41	44.80	36.93	74.00	-37.07	peak
2	4354.454	7.03	34.44	35.83	43.73	49.37	74.00	-24.63	peak
3	4808.000	7.32	34.33	35.51	43.44	49.58	74.00	-24.42	peak
4	6451.353	8.52	35.50	35.22	43.45	52.25	74.00	-21.75	peak
5	7212.000	9.18	35.70	35.79	43.63	52.72	74.00	-21.28	peak
6 p	9616.000	12.37	37.43	37.46	41.31	53.65	74.00	-20.35	peak



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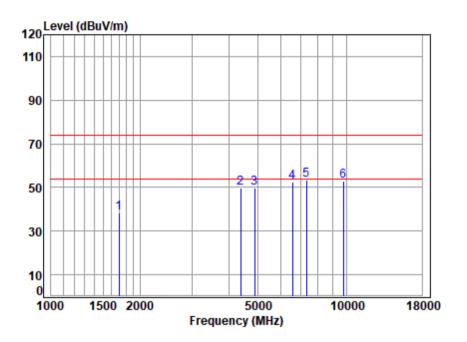


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

Page: 55 of 132

Test Mode: 03; Polarity: Horizontal; Modulation: GFSK; Channel: middle



Site : chamber

Condition: 3m HORIZONTAL : 00909AT/00910AT Mode : 2440 TX RSE

: BLE 2M

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1697.129	4.33	26.21	38.41	46.08	38.21	74.00	-35.79	peak
2		4392.376	7.05	34.74	35.80	43.80	49.79	74.00	-24.21	peak
3		4880.000	7.36	34.62	35.47	43.19	49.70	74.00	-24.30	peak
4		6564.209	8.61	35.44	35.29	43.70	52.46	74.00	-21.54	peak
5	р	7320.000	9.32	35.70	35.90	44.16	53.28	74.00	-20.72	peak
6		9760.000	12.47	37.38	37.43	40.39	52.81	74.00	-21.19	peak



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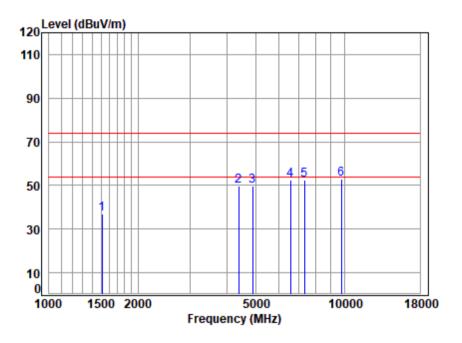


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

Page: 56 of 132

Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m VERTICAL

: 00909AT/00910AT

Mode : 2440 TX RSE

: BLE 2M

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	_									
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1	511.833	4.08	26.85	38.39	44.53	37.07	74.00	-36.93	peak
2	4	392.376	7.05	34.74	35.80	43.53	49.52	74.00	-24.48	peak
3	4	880.000	7.36	34.62	35.47	43.19	49.70	74.00	-24.30	peak
4	6	564.209	8.61	35.44	35.29	43.84	52.60	74.00	-21.40	peak
5	7	320.000	9.32	35.70	35.90	43.17	52.29	74.00	-21.71	peak
6	p 9	760.000	12.47	37.38	37.43	40.68	53.10	74.00	-20.90	peak



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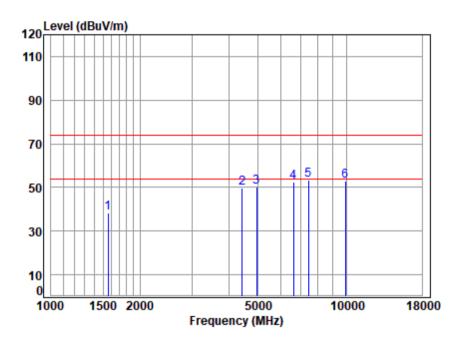


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

Page: 57 of 132

Test Mode: 03; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL : 00909AT/00910AT Mode : 2478 TX RSE

: BLE 2M

Cable Ant Preamp Read Limit Over Freq Loss Factor Factor Level Level Line Limit Remark

	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1560.673	4.15	26.96	38.40	45.50	38.21	74.00	-35.79	peak
2	4430.628	7.08	34.43	35.77	43.96	49.70	74.00	-24.30	peak
3	4956.000	7.40	34.58	35.42	43.50	50.06	74.00	-23.94	peak
4	6621.375	8.65	35.26	35.33	43.89	52.47	74.00	-21.53	peak
5 p	7434.000	9.45	35.94	36.02	43.79	53.16	74.00	-20.84	peak
6	9912.000	12.57	37.30	37.39	40.61	53.09	74.00	-20.91	peak



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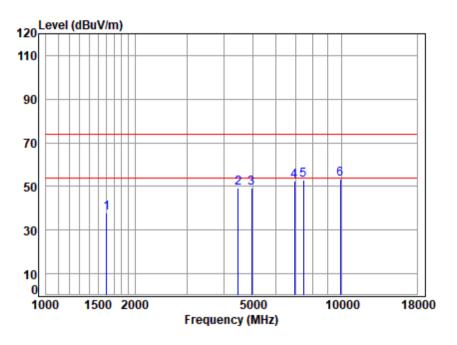


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

Page: 58 of 132

Test Mode: 03; Polarity: Vertical; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m VERTICAL

: 00909AT/00910AT Mode : 2478 TX RSE

: BLE 2M

		Freq			Preamp Factor					Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1606.441	4.21	26.74	38.40	45.24	37.79	74.00	-36.21	peak
2		4469.214								
3		4956.000	7.40	34.58	35.42	42.78	49.34	74.00	-24.66	peak
4		6934.778	8.87	35.74	35.53	43.54	52.62	74.00	-21.38	peak
5		7434.000	9.45	35.94	36.02	43.40	52.77	74.00	-21.23	peak
6	р	9912.000	12.57	37.30	37.39	41.06	53.54	74.00	-20.46	peak



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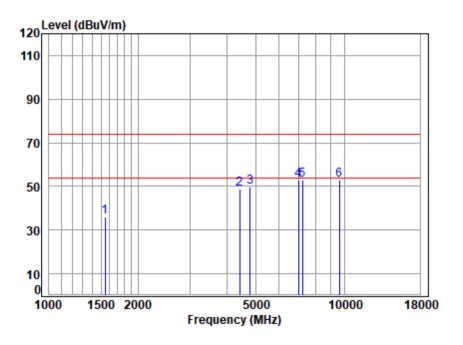


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

Page: 59 of 132

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



Site : chamber

Condition: 3m HORIZONTAL : 00909AT/00910AT Mode : 2402 TX RSE

: BLE 1M

Cable Ant Preamp Read Limit Over Loss Factor Factor Level Level Line Limit Remark MHz dB dBuV dBuV/m dBuV/m dB/m dΒ dB 26.99 38.39 43.52 36.25 74.00 -37.75 peak 1547.199 1 4.13 4417.841 7.07 34.59 35.78 43.06 48.94 74.00 -25.06 peak 3 7.31 34.32 35.52 43.42 49.53 74.00 -24.47 peak 4804.000 8.90 35.75 35.55 43.67 52.77 74.00 -21.23 peak 6974.982 9.18 35.70 35.79 44.00 53.09 74.00 -20.91 peak 5 p 7206.000 9608.000 12.36 37.42 37.46 40.57 52.89 74.00 -21.11 peak



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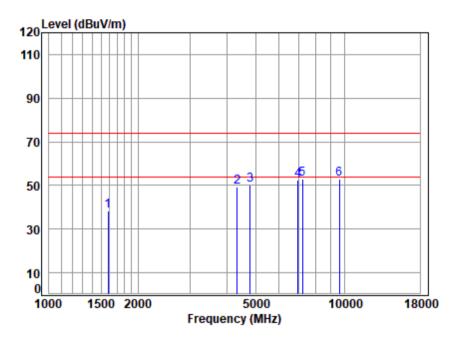


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

Page: 60 of 132

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



Site : chamber

Condition: 3m VERTICAL

: 00909AT/00910AT

Mode : 2402 TX RSE

: BLE 1M

		Freq			Preamp Factor					Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1583.392	4.18	26.87	38.40	45.70	38.35	74.00	-35.65	peak
2		4329.354	7.01	34.23	35.85	43.87	49.26	74.00	-24.74	peak
3		4804.000	7.31	34.32	35.52	43.92	50.03	74.00	-23.97	peak
4		6954.852	8.89	35.79	35.54	43.56	52.70	74.00	-21.30	peak
5		7206.000	9.18	35.70	35.79	43.83	52.92	74.00	-21.08	peak
6	р	9608.000	12.36	37.42	37.46	40.60	52.92	74.00	-21.08	peak



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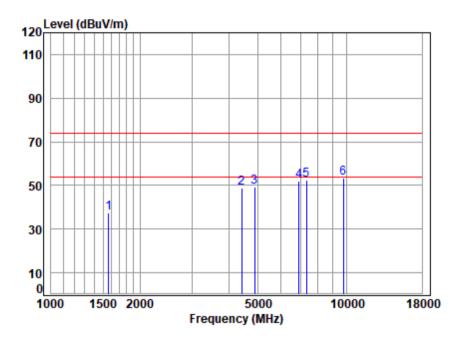


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

Page: 61 of 132

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



Site : chamber

Condition: 3m HORIZONTAL : 00909AT/00910AT Mode : 2440 TX RSE

: BLE 1M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1565.191	4.15	26.94	38.40	44.89	37.58	74.00	-36.42	peak
2	4417.841	7.07	34.59	35.78	42.95	48.83	74.00	-25.17	peak
3	4880.000	7.36	34.62	35.47	42.79	49.30	74.00	-24.70	peak
4	6914.763	8.86	35.66	35.52	42.83	51.83	74.00	-22.17	peak
5	7320.000	9.32	35.70	35.90	43.37	52.49	74.00	-21.51	peak
6 p	9760.000	12.47	37.38	37.43	41.06	53.48	74.00	-20.52	peak



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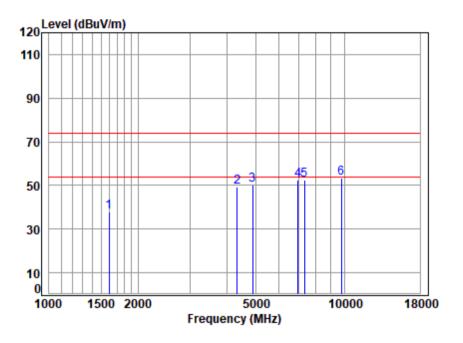


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

Page: 62 of 132

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



Site : chamber

Condition: 3m VERTICAL

: 00909AT/00910AT

Mode : 2440 TX RSE

: BLE 1M

		Freq			Preamp Factor					Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1597.181	4.20	26.81	38.40	45.24	37.85	74.00	-36.15	peak
2		4329.354	7.01	34.23	35.85	43.98	49.37	74.00	-24.63	peak
3		4880.000	7.36	34.62	35.47	43.83	50.34	74.00	-23.66	peak
4		6954.852	8.89	35.79	35.54	43.44	52.58	74.00	-21.42	peak
5		7320.000	9.32	35.70	35.90	43.50	52.62	74.00	-21.38	peak
6	р	9760.000	12.47	37.38	37.43	41.08	53.50	74.00	-20.50	peak



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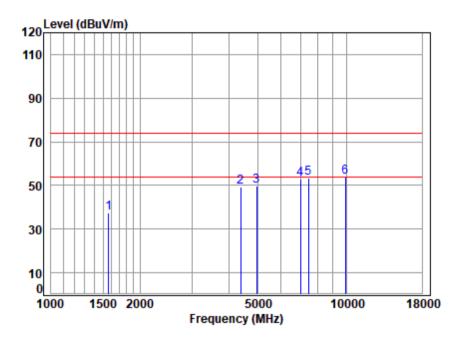


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

Page: 63 of 132

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



Site : chamber

Condition: 3m HORIZONTAL : 00909AT/00910AT Mode : 2480 TX RSE

: BLE 1M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1569.721	4.16	26.92	38.40	44.92	37.60	74.00	-36.40	peak
2	4392.376	7.05	34.74	35.80	43.25	49.24	74.00	-24.76	peak
3	4960.000	7.41	34.56	35.42	43.41	49.96	74.00	-24.04	peak
4	6995.172	8.92	35.71	35.57	43.69	52.75	74.00	-21.25	peak
5	7440.000	9.46	35.96	36.02	43.89	53.29	74.00	-20.71	peak
6 p	9920.000	12.58	37.30	37.39	41.18	53.67	74.00	-20.33	peak



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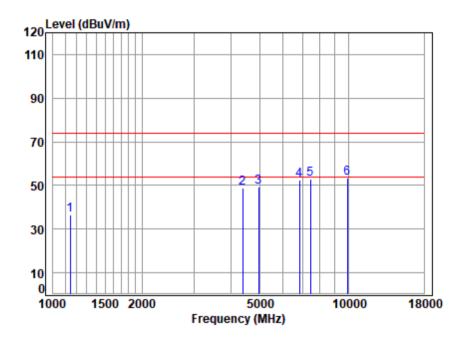


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

Page: 64 of 132

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



Site : chamber

Condition: 3m VERTICAL

: 00909AT/00910AT

Mode : 2480 TX RSE

: BLE 1M

		Freq			Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1145.507	3.48	23.88	38.33	47.38	36.41	74.00	-37.59	peak
2		4379.699	7.04	34.64	35.81	42.75	48.62	74.00	-25.38	peak
3		4960.000	7.41	34.56	35.42	42.88	49.43	74.00	-24.57	peak
4		6835.278	8.80	35.44	35.47	43.74	52.51	74.00	-21.49	peak
5		7440.000	9.46	35.96	36.02	43.72	53.12	74.00	-20.88	peak
6	р	9920.000	12.58	37.30	37.39	40.71	53.20	74.00	-20.80	peak



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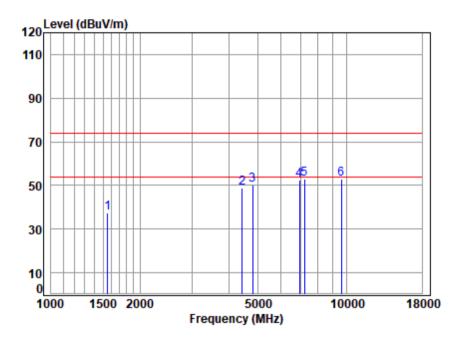


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

Page: 65 of 132

Test Mode: 07; Polarity: Horizontal; Modulation: GFSK; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL : 00909AT/00910AT Mode : 2404 TX RSE

: BLE 2M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1556.169	4.14	26.98	38.40	44.74	37.46	74.00	-36.54	peak
2	4443.453	7.09	34.28	35.77	43.10	48.70	74.00	-25.30	peak
3	4808.000	7.32	34.33	35.51	43.93	50.07	74.00	-23.93	peak
4	6934.778	8.87	35.74	35.53	43.19	52.27	74.00	-21.73	peak
5	7212.000	9.18	35.70	35.79	43.62	52.71	74.00	-21.29	peak
6	p 9616.000	12.37	37.43	37.46	40.49	52.83	74.00	-21.17	peak



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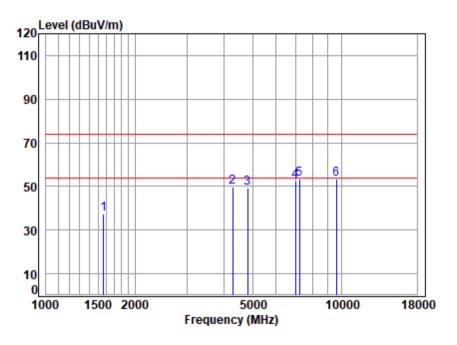


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

Page: 66 of 132

Test Mode: 07; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Mode : 2404 TX RSE

: BLF 2M

: 00909AT/00910AT

		211							
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1569.721	4.16	26.92	38.40	44.87	37.55	74.00	-36.45	peak
2	4291.977	6.99	33.97	35.88	44.45	49.53	74.00	-24.47	peak
3	4808.000	7.32	34.33	35.51	43.26	49.40	74.00	-24.60	peak
4	6974.982	8.90	35.75	35.55	43.31	52.41	74.00	-21.59	peak
5 p	7212.000	9.18	35.70	35.79	44.13	53.22	74.00	-20.78	peak
6	9616 000	12 37	37 43	37.46	40 86	53.20	74 00	-20.80	neak



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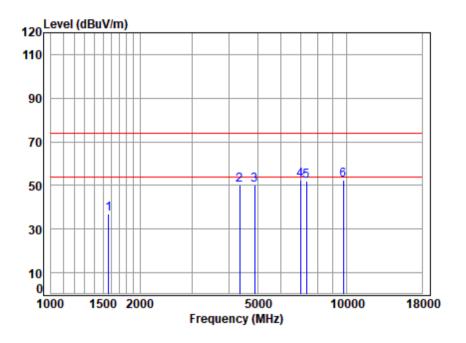


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

Page: 67 of 132

Test Mode: 07; Polarity: Horizontal; Modulation: GFSK; Channel: middle



Site : chamber

Condition: 3m HORIZONTAL : 00909AT/00910AT Mode : 2440 TX RSE

: BLE 2M

Cable Ant Preamp Read Limit Over Loss Factor Factor Level Level Line Limit Remark MHz dB dBuV dBuV/m dBuV/m dB/m dΒ dB 1569.721 26.92 38.40 44.28 36.96 74.00 -37.04 peak 1 4.16 4354.454 7.03 34.44 35.83 44.42 50.06 74.00 -23.94 peak 3 4880.000 7.36 43.53 50.04 74.00 -23.96 peak 34.62 35.47 4 8.90 35.75 35.55 43.53 52.63 74.00 -21.37 peak 6974.982 7320.000 9.32 35.70 35.90 42.87 51.99 74.00 -22.01 peak 6 p 9760.000 12.47 37.38 37.43 40.27 52.69 74.00 -21.31 peak



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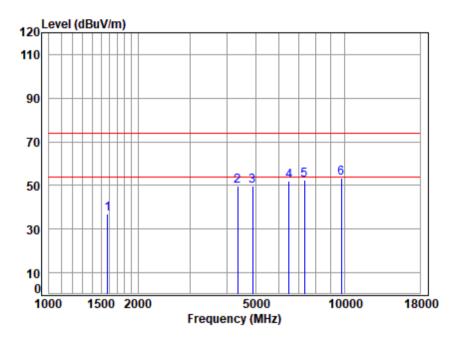


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

Page: 68 of 132

Test Mode: 07; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m VERTICAL

: 00909AT/00910AT

Mode : 2440 TX RSE

: BLE 2M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1578.822	1 17	26 88	38 40	11 38	37 03	7/ 00	36 97	noak
2	4354.454								•
_									•
3	4880.000								•
4	6488.754	8.55	35.58	35.24	43.14	52.03	74.00	-21.97	peak
5	7320.000	9.32	35.70	35.90	43.36	52.48	74.00	-21.52	peak
6	p 9760.000	12.47	37.38	37.43	41.08	53.50	74.00	-20.50	peak



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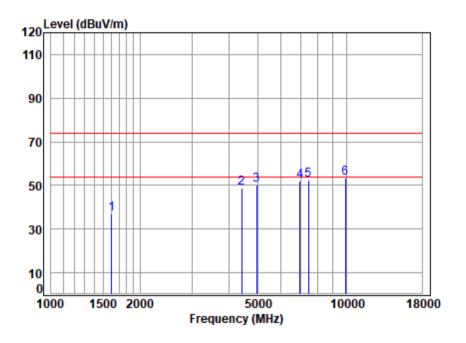


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

Page: 69 of 132

Test Mode: 07; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL : 00909AT/00910AT

Mode : 2478 TX RSE

: BLE 2M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1601.804	4.20	26.78	38.40	44.19	36.77	74.00	-37.23	peak
2	4417.841	7.07	34.59	35.78	42.89	48.77	74.00	-25.23	peak
3	4956.000	7.40	34.58	35.42	43.52	50.08	74.00	-23.92	peak
4	6954.852	8.89	35.79	35.54	42.71	51.85	74.00	-22.15	peak
5	7434.000	9.45	35.94	36.02	43.23	52.60	74.00	-21.40	peak
6	p 9912.000	12.57	37.30	37.39	40.76	53.24	74.00	-20.76	peak



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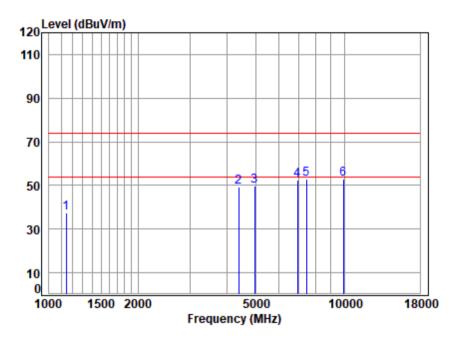


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

Page: 70 of 132

Test Mode: 07; Polarity: Vertical; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m VERTICAL

: 00909AT/00910AT

Mode : 2478 TX RSE

: BLE 2M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1145.507	3.48	23.88	38.33	48.49	37.52	74.00	-36.48	peak
2	4392.376	7.05	34.74	35.80	43.21	49.20	74.00	-24.80	peak
3	4956.000	7.40	34.58	35.42	43.34	49.90	74.00	-24.10	peak
4	6934.778	8.87	35.74	35.53	43.59	52.67	74.00	-21.33	peak
5	7434.000	9.45	35.94	36.02	43.73	53.10	74.00	-20.90	peak
6	p 9912.000	12.57	37.30	37.39	40.65	53.13	74.00	-20.87	peak



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240300090903

> Page: 71 of 132

#### **Test Setup Photo** 8

Refer to Appendix - Test Setup Photo for SZCR2403000909AT

#### **EUT Constructional Details (EUT Photos)** 9

Refer to External and Internal Photos for SZCR2403000909AT



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

72 of 132 Page:

# 10 Appendix

For right earbud:

1. Duty Cycle

1.1 Ant1

#### 1.1.1 Test Result

	Ant1											
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)					
		2402	0.409	0.625	65.44	1.84	0.00					
1M	SISO	2440	0.396	0.625	63.36	1.98	0.00					
		2480	0.409	0.625	65.44	1.84	0.00					
		2404	0.225	0.625	36.00	4.44	0.00					
2M	SISO	2440	0.225	0.624	36.06	4.43	0.02					
		2478	0.226	0.625	36.16	4.42	0.00					



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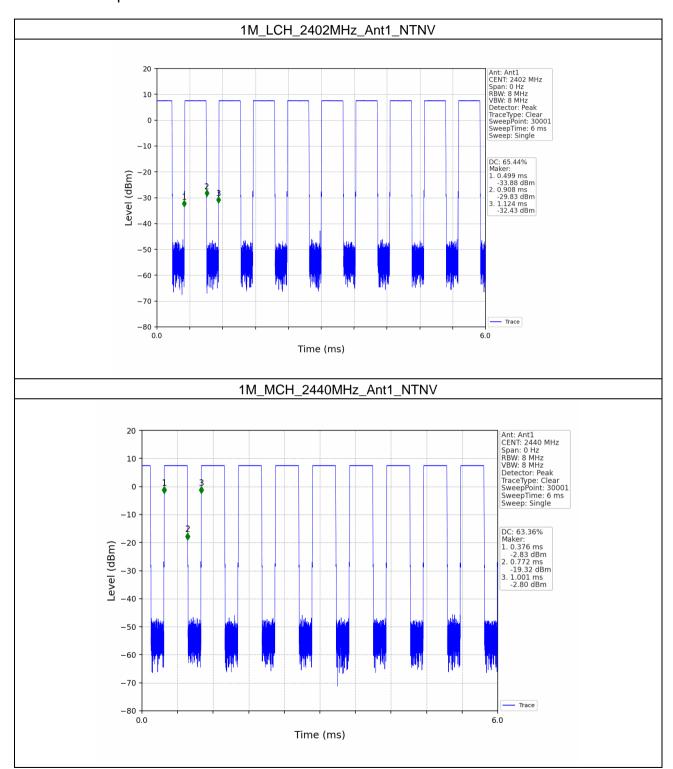


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

Page: 73 of 132

### 1.1.2 Test Graph





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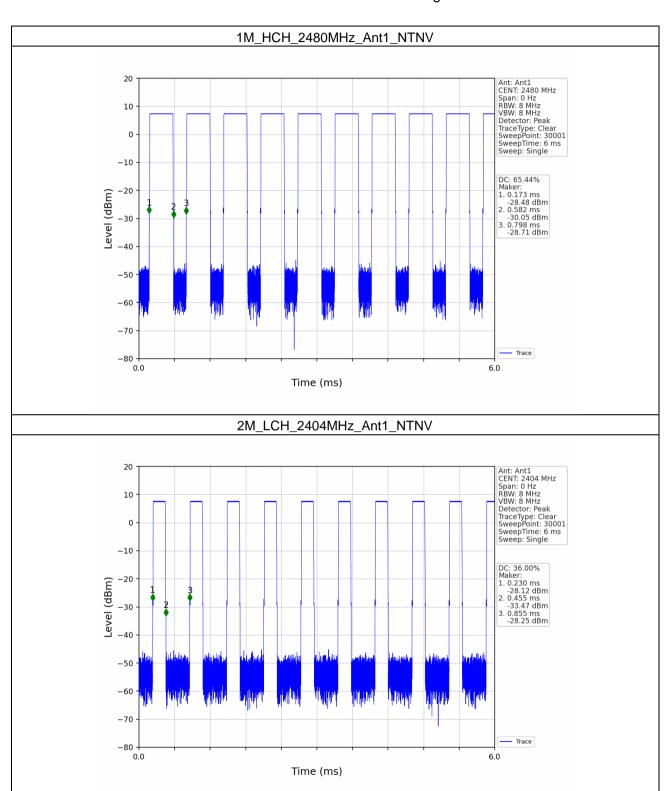
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

Page: 74 of 132





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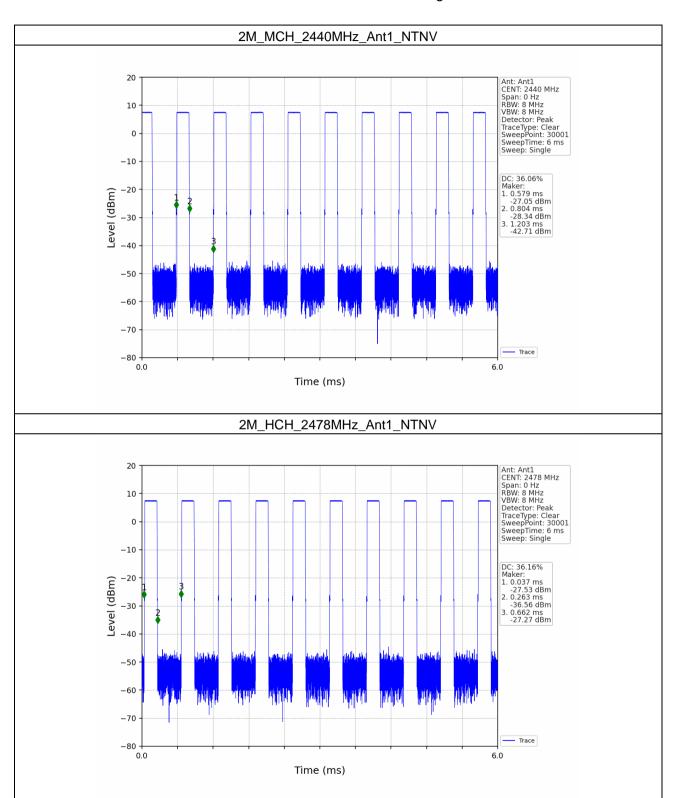
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

Page: 75 of 132





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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

76 of 132 Page:

### 2. Bandwidth

### 2.1 OBW

#### 2.1.1 Test Result

Mode	TX	Frequency	A N.I.T.	99% Occupied E	Vardiet	
Mode	Туре	(MHz)	ANT	Result	Limit	Verdict
	2402	1	1.047	/	Pass	
1M	SISO	2440	1	1.046	/	Pass
		2480	1	1.045	/	Pass
2M SISO	2404	1	2.071	/	Pass	
	SISO	2440	1	2.068	/	Pass
		2478	1	2.071	/	Pass



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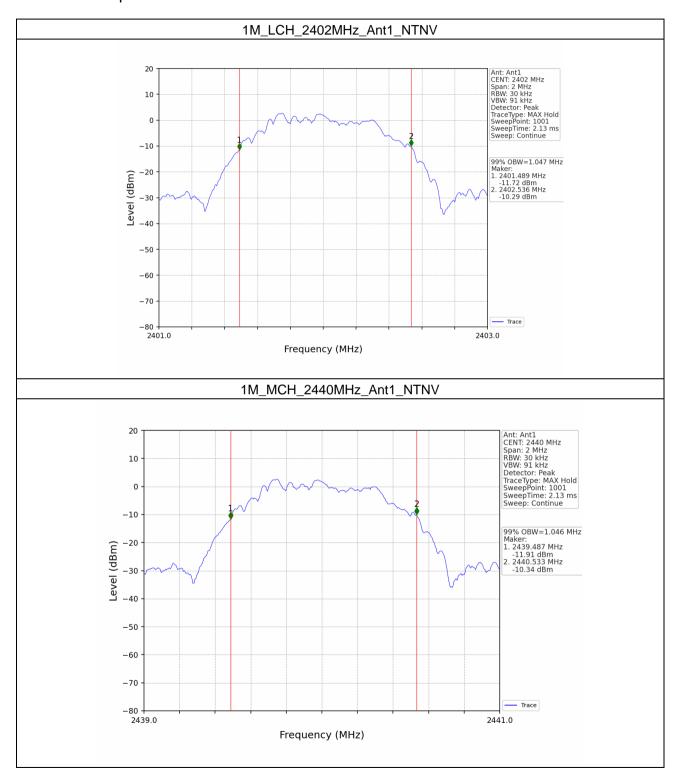


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

Page: 77 of 132

### 2.1.2 Test Graph





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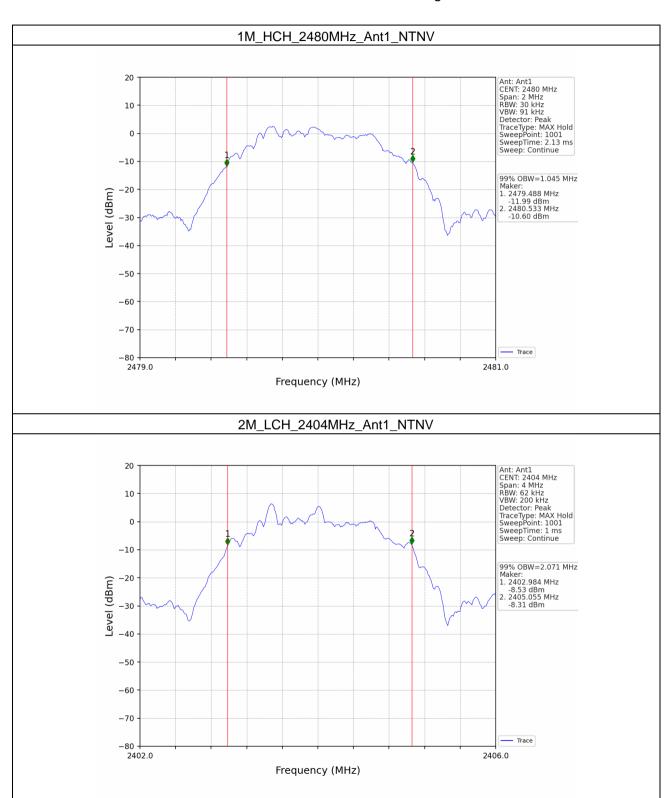
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Report No.: SZCR240300090903

Page: 78 of 132





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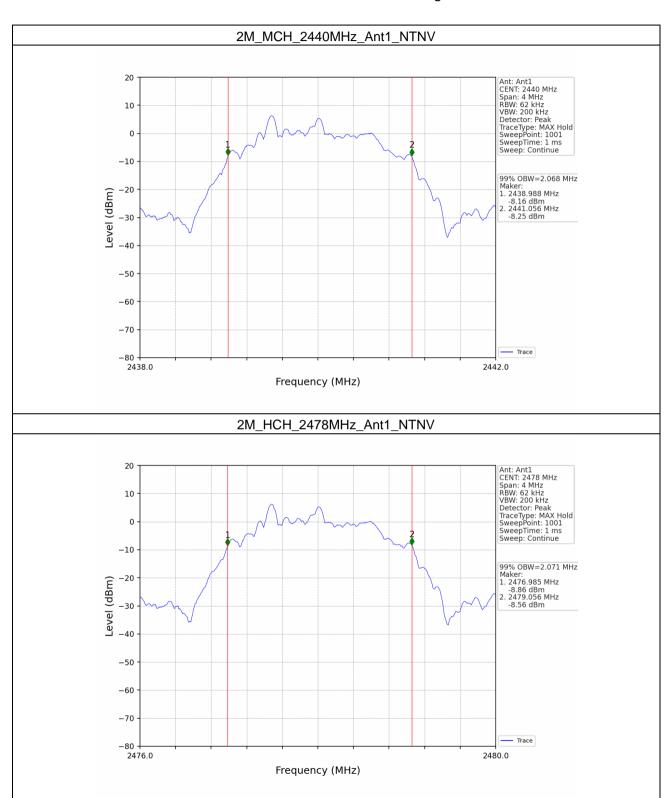
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Report No.: SZCR240300090903

Page: 79 of 132





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Report No.: SZCR240300090903

80 of 132 Page:

### 2.2 6dB BW

### 2.2.1 Test Result

Mode	TX Type	Frequency	A N.I.T.	6dB Bandwidth (MHz)		Mondiet
		(MHz)	ANT	Result	Limit	Verdict
		2402	1	0.715	>=0.5	Pass
1M	SISO	2440	1	0.717	>=0.5	Pass
		2480	1	0.706	>=0.5	Pass
		2404	1	1.211	>=0.5	Pass
2M	SISO	2440	1	1.212	>=0.5	Pass
		2478	1	1.214	>=0.5	Pass



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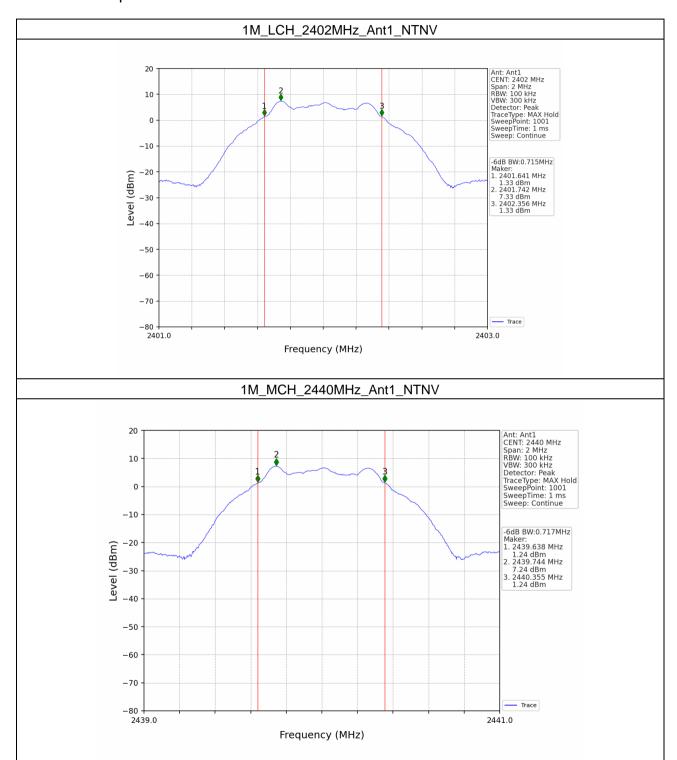


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Report No.: SZCR240300090903

Page: 81 of 132

### 2.2.2 Test Graph





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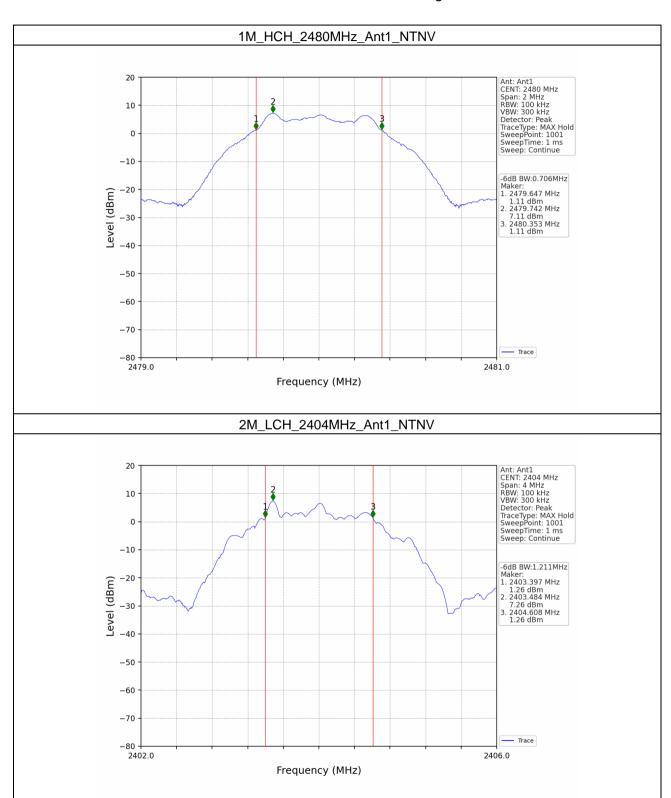
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Page: 82 of 132





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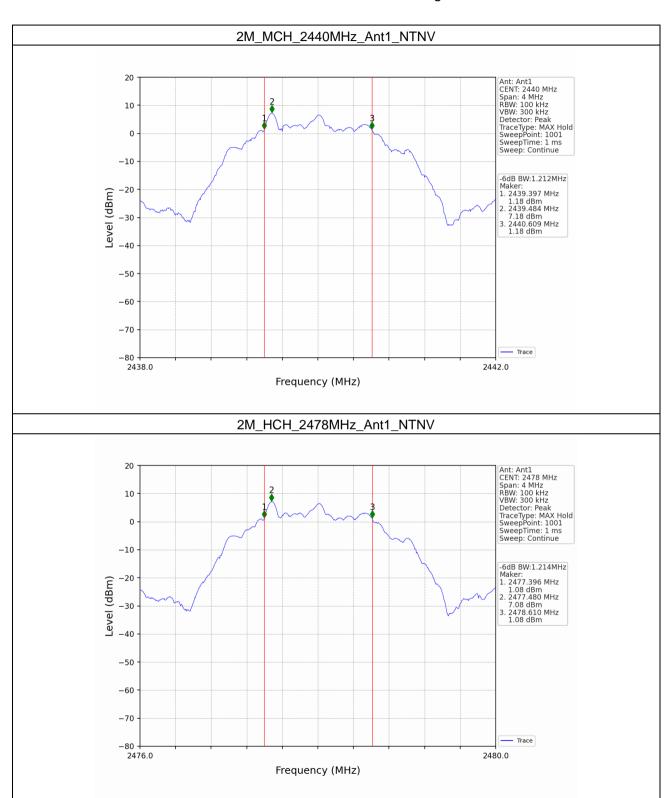
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Report No.: SZCR240300090903

Page: 83 of 132





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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240300090903

84 of 132 Page:

### 3. Maximum Conducted Output Power

### 3.1 Power

#### 3.1.1 Test Result

Mode	TX	Frequency	Maximum Peak Conduc	Maximum Peak Conducted Output Power (dBm)			
	Type	(MHz)	ANT1	Limit	Verdict		
	2402	7.54	<=30	Pass			
1M	1M SISO	2440	7.45	<=30	Pass		
		2480	7.34	<=30	Pass		
	2M SISO	2404	7.55	<=30	Pass		
2M		2440	7.46	<=30	Pass		
		2478	7.39	<=30	Pass		



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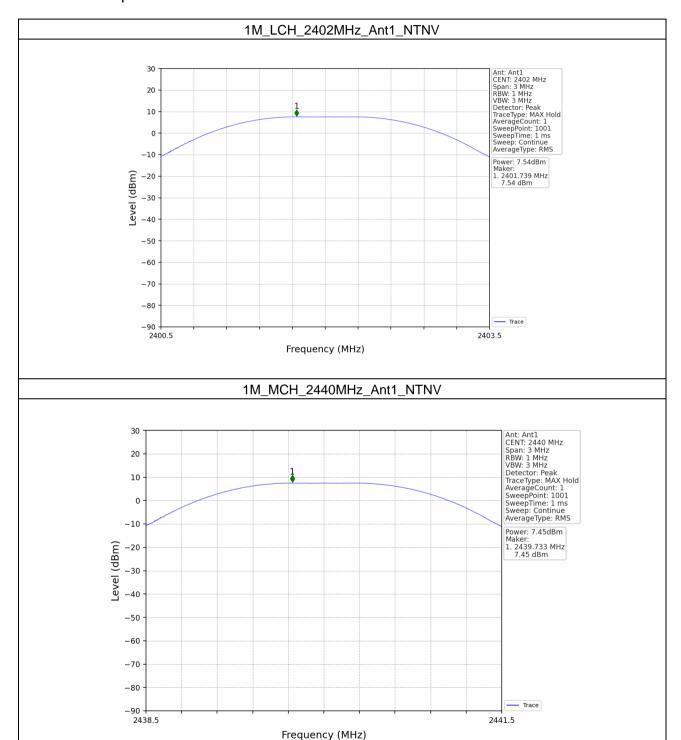


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Report No.: SZCR240300090903

Page: 85 of 132

### 3.1.2 Test Graph





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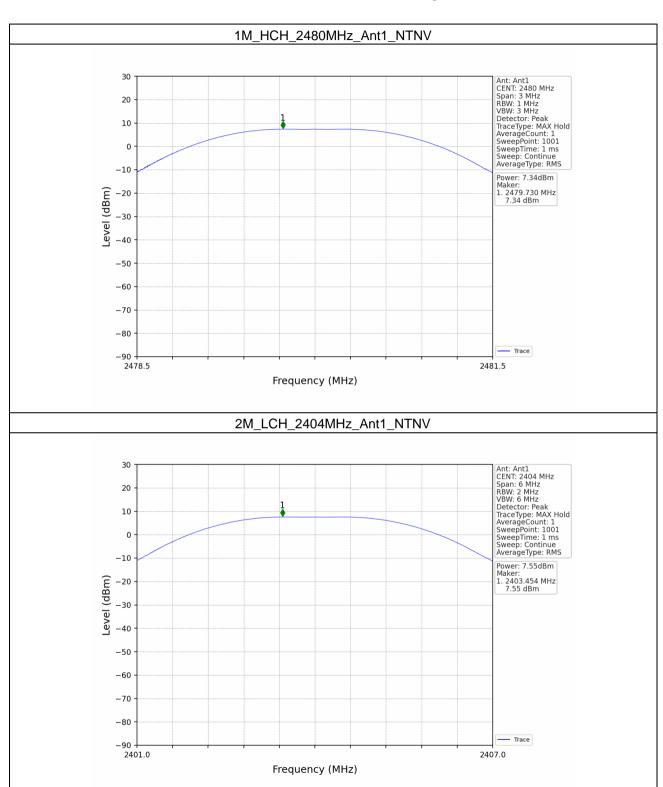
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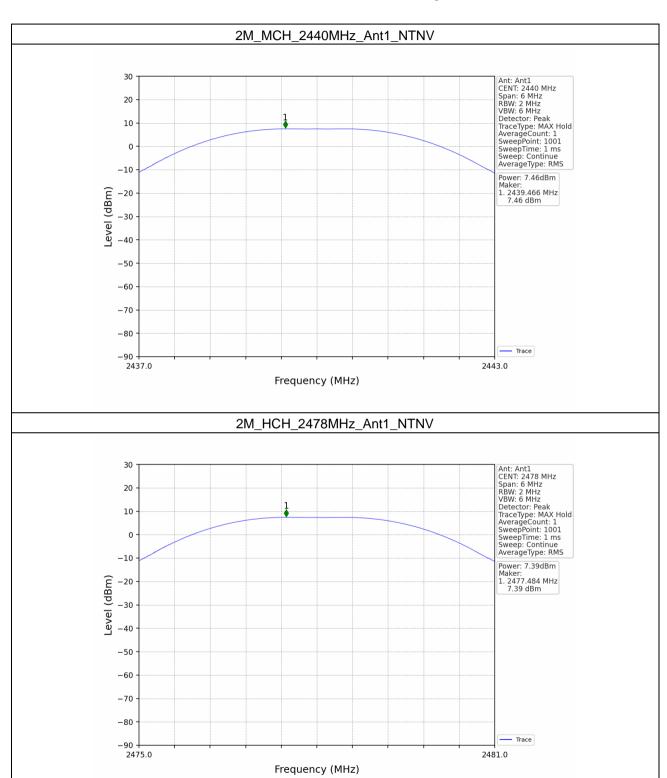
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Report No.: SZCR240300090903

Page: 87 of 132





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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

88 of 132 Page:

### 4. Maximum Power Spectral Density

### 4.1 PSD

#### 4.1.1 Test Result

Mode	TX	Frequency	Maximum PS	\/adi.a.t	
	Type	(MHz)	ANT1	Limit	Verdict
		2402	-8.00	<=8	Pass
1M	SISO	2440	-8.11	<=8	Pass
		2480	-8.25	<=8	Pass
		2404	-11.62	<=8	Pass
2M	SISO	2440	-11.72	<=8	Pass
		2478	-11.88	<=8	Pass



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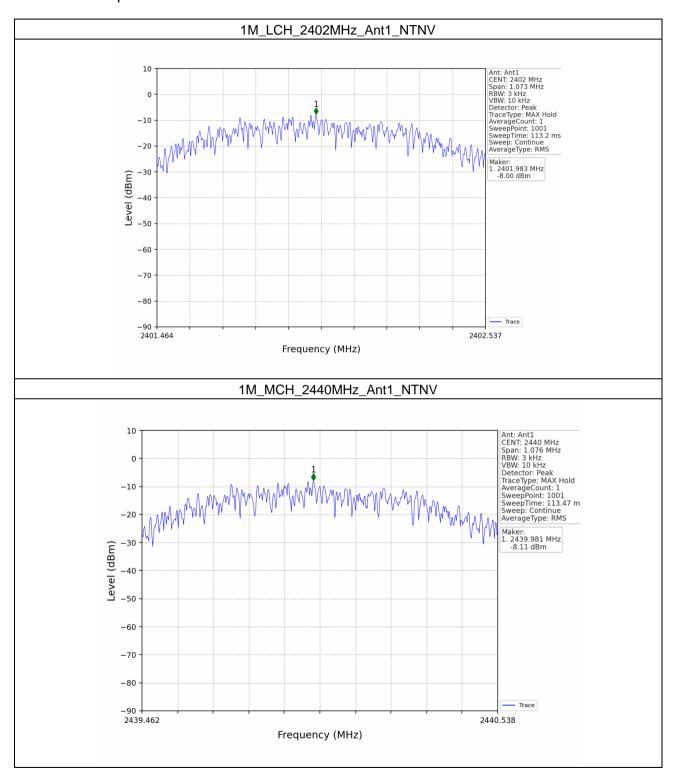


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Report No.: SZCR240300090903

89 of 132 Page:

### 4.1.2 Test Graph





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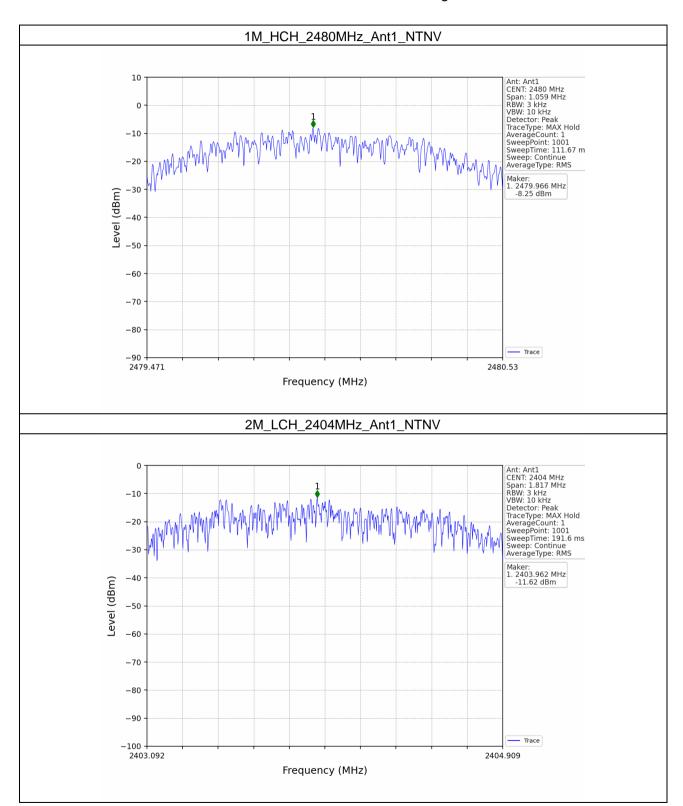
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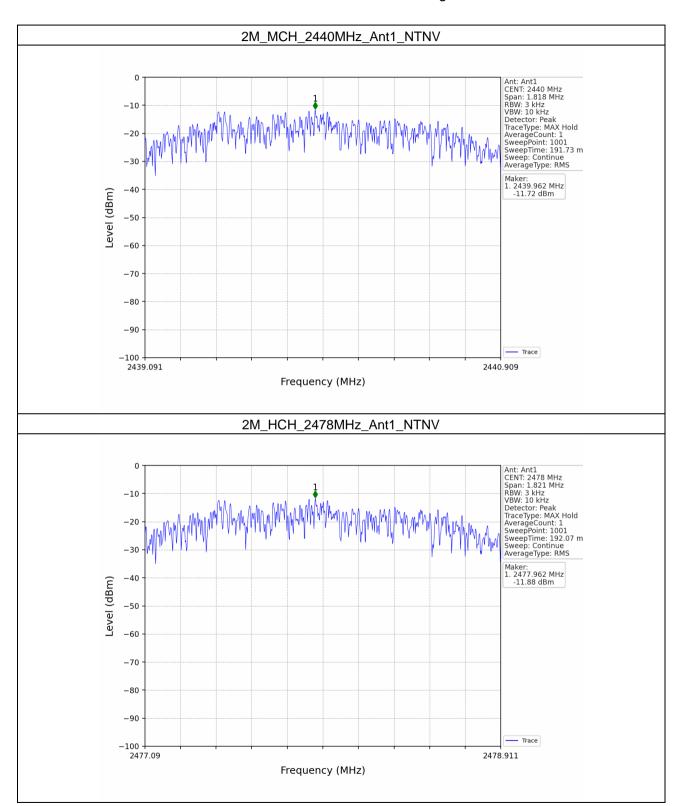
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Report No.: SZCR240300090903

Page: 91 of 132





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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

92 of 132 Page:

### 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)
		2402	1	7.33
1M	SISO	2440	1	7.23
		2480	1	7.11
2M	SISO	2404	1	7.24
		2440	1	7.16
		2478	1	7.07



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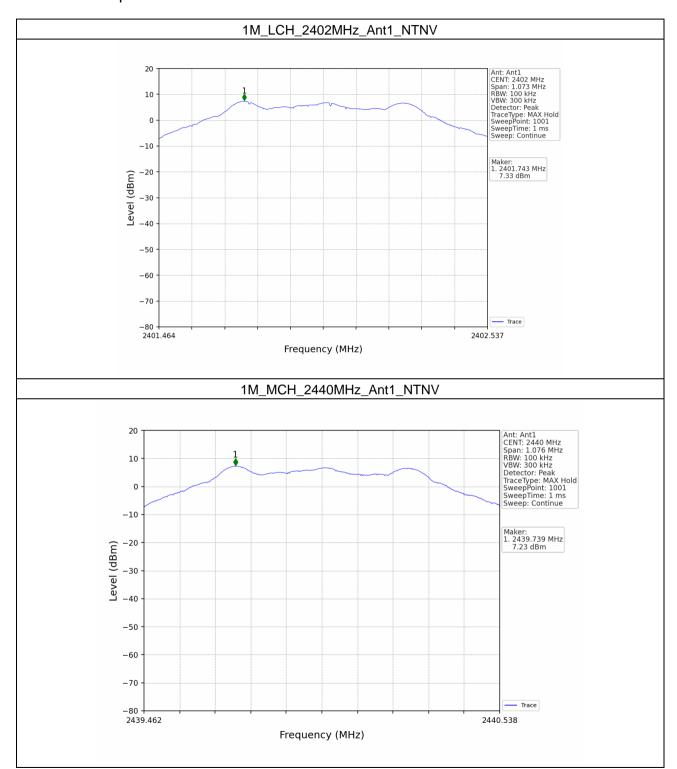


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Report No.: SZCR240300090903

Page: 93 of 132

### 5.1.2 Test Graph





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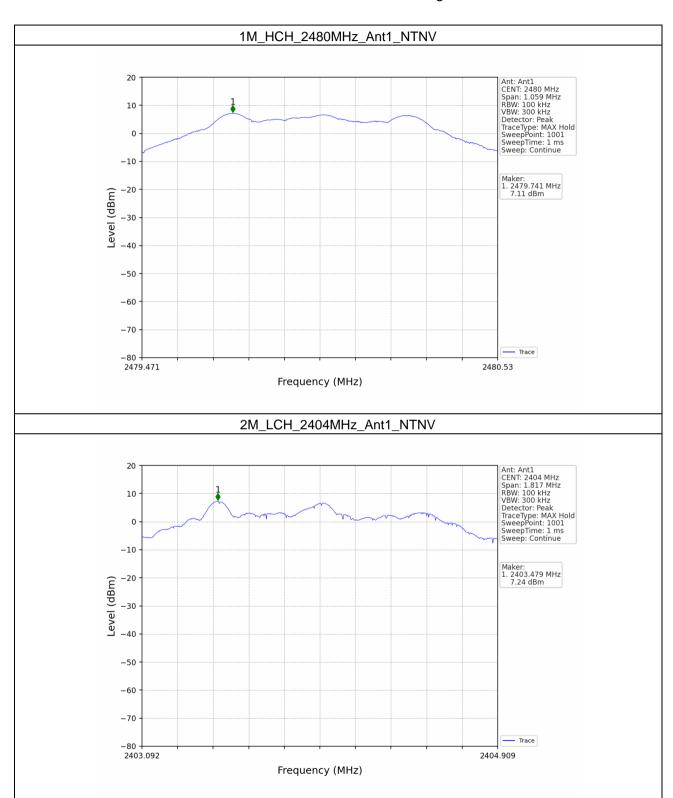
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Report No.: SZCR240300090903

Page: 94 of 132





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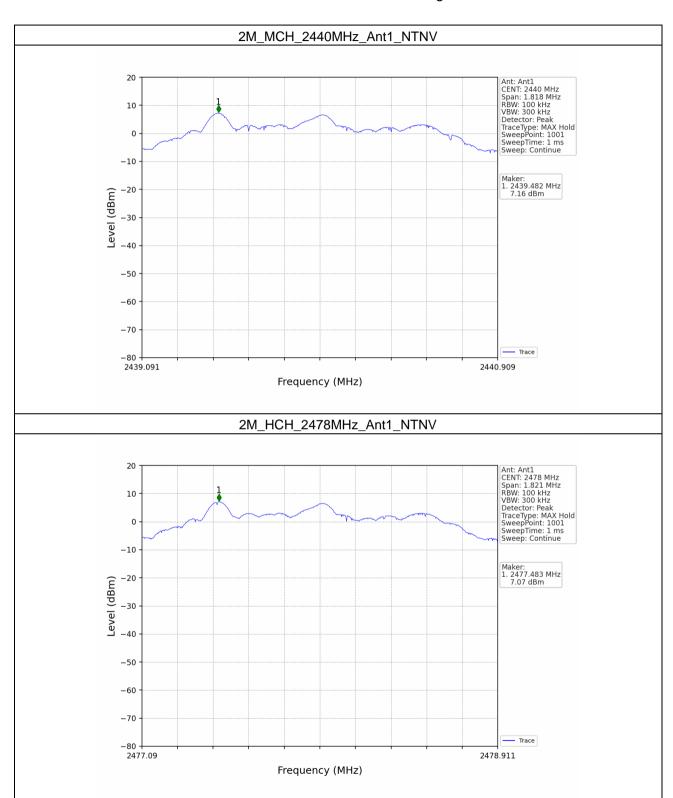
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Report No.: SZCR240300090903

Page: 95 of 132





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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

96 of 132 Page:

### 5.2 CSE

### 5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
		2402	1	7.33	-12.67	Pass
1M	1M SISO	2440	1	7.33	-12.67	Pass
		2480	1	7.33	-12.67	Pass
	2M SISO	2404	1	7.24	-12.76	Pass
2M		2440	1	7.24	-12.76	Pass
		2478	1	7.24	-12.76	Pass



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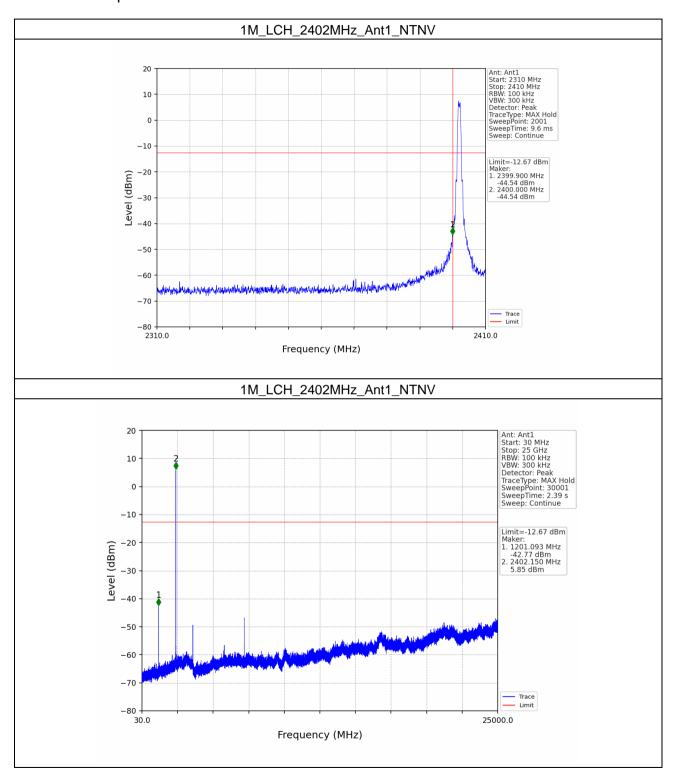


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Page: 97 of 132

### 5.2.2 Test Graph





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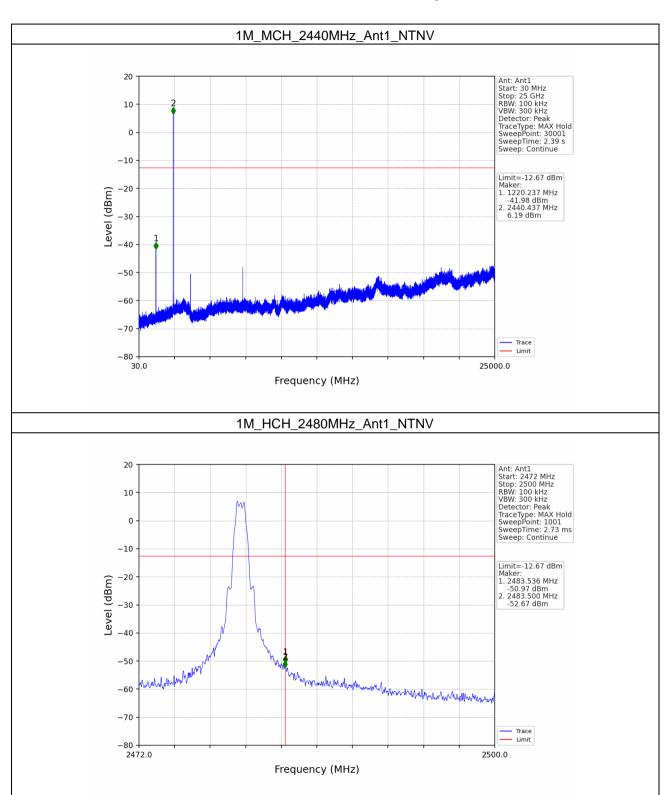
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Report No.: SZCR240300090903

Page: 98 of 132





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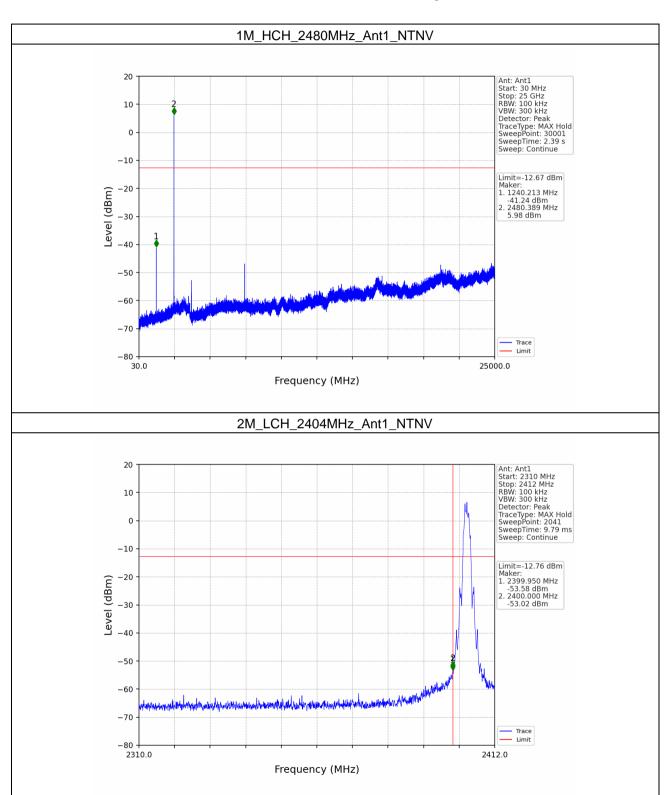
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Page: 99 of 132





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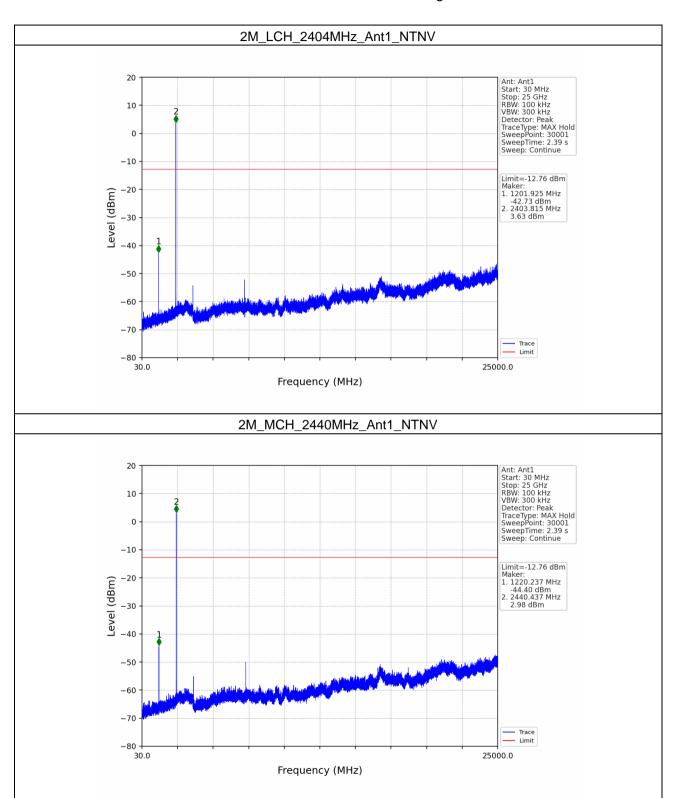
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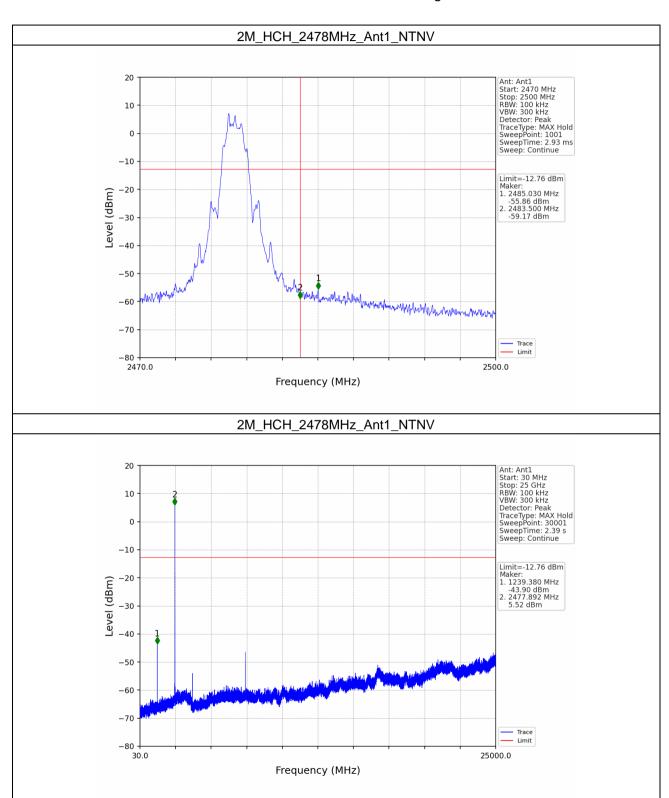
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Page: 101 of 132





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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240300090903

> 102 of 132 Page:

For left earbud:

1. Duty Cycle

1.1 Ant1

### 1.1.1 Test Result

	Ant1									
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)			
	2402	0.410	0.625	65.60	1.83	0.03				
1M	SISO	2440	0.409	0.625	65.44	1.84	0.00			
		2480	0.409	0.625	65.44	1.84	0.00			
		2404	0.225	0.625	36.00	4.44	0.00			
2M	SISO	2440	0.226	0.625	36.16	4.42	0.00			
		2478	0.226	0.625	36.16	4.42	0.00			



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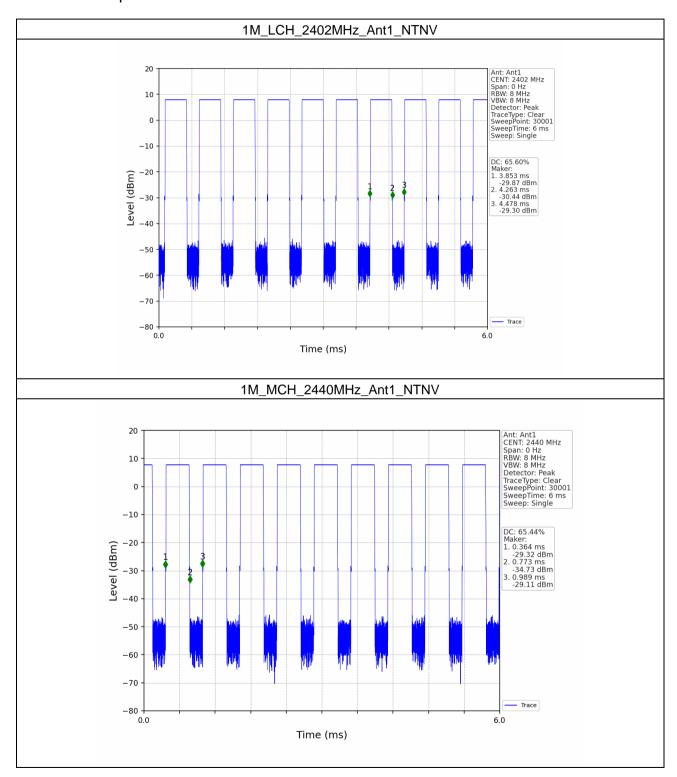


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Report No.: SZCR240300090903

Page: 103 of 132

### 1.1.2 Test Graph





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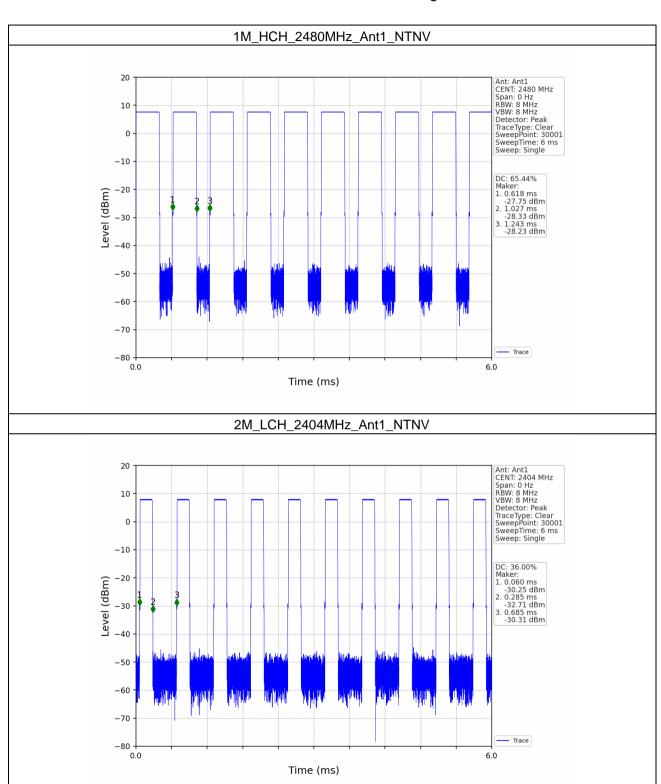
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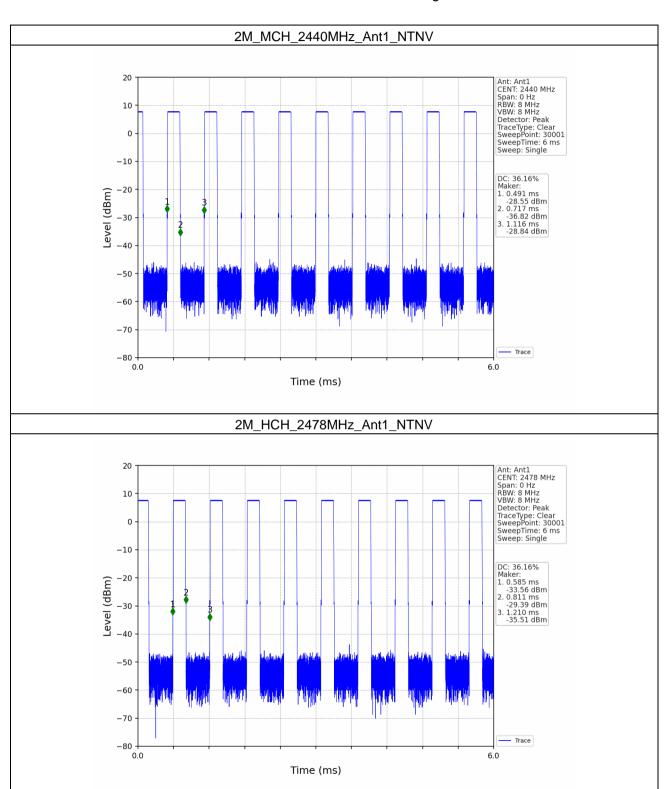
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Report No.: SZCR240300090903

106 of 132 Page:

### 2. Bandwidth

### 2.1 OBW

#### 2.1.1 Test Result

Mode	TX	TX Frequency	ANIT	99% Occupied E	Mandiat	
Mode	Туре	(MHz)	ANT	Result	Limit	Verdict
	2402	1	1.047	/	Pass	
1M	SISO	2440	1	1.046	/	Pass
		2480	1	1.044	/	Pass
		2404	1	2.069	/	Pass
2M	SISO	2440	1	2.070	/	Pass
		2478	1	2.070	/	Pass



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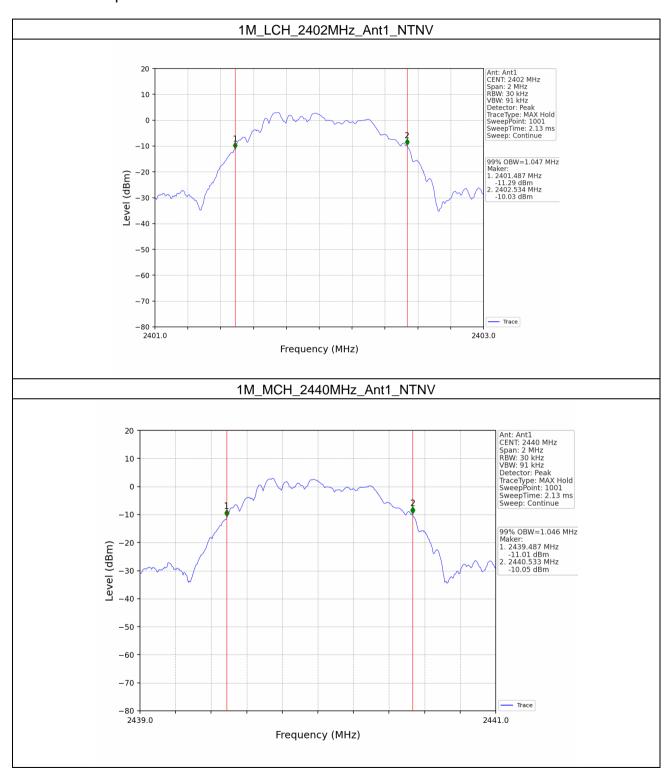


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Report No.: SZCR240300090903

Page: 107 of 132

### 2.1.2 Test Graph





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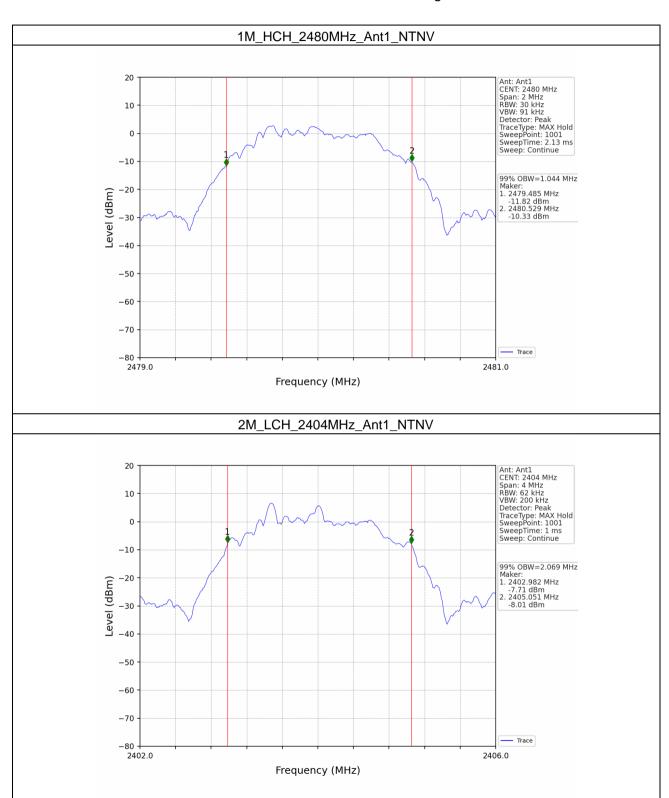
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Report No.: SZCR240300090903

Page: 108 of 132





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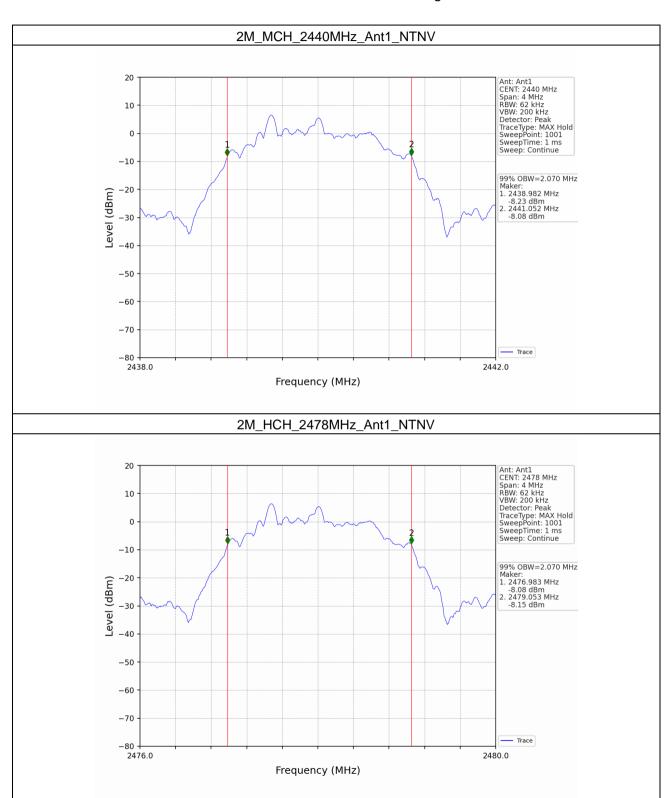
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Report No.: SZCR240300090903

Page: 109 of 132





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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090903

110 of 132 Page:

### 2.2 6dB BW

### 2.2.1 Test Result

Mode	TX Type	Frequency	ANIT	6dB Bandv	\/a =diat	
		(MHz)	ANT	Result	Limit	Verdict
		2402	1	0.719	>=0.5	Pass
1M	SISO	2440	1	0.718	>=0.5	Pass
		2480	1	0.713	>=0.5	Pass
		2404	1	1.208	>=0.5	Pass
2M	SISO	2440	1	1.211	>=0.5	Pass
		2478	1	1.214	>=0.5	Pass



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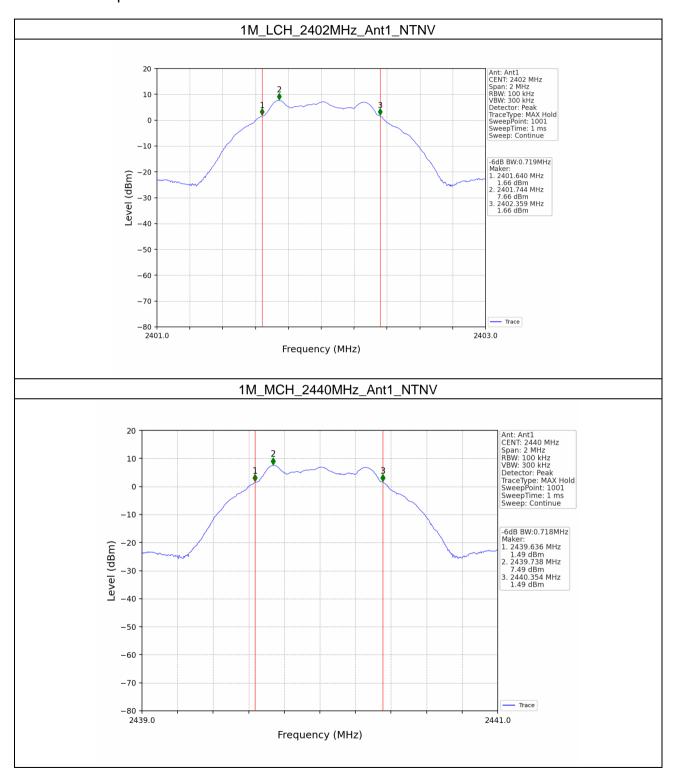


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Report No.: SZCR240300090903

Page: 111 of 132

### 2.2.2 Test Graph





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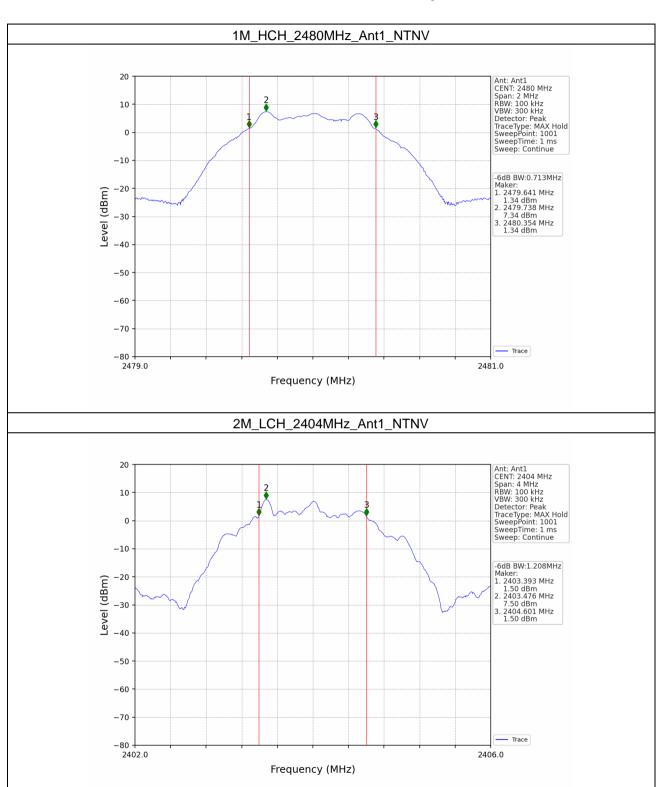
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Report No.: SZCR240300090903

Page: 112 of 132





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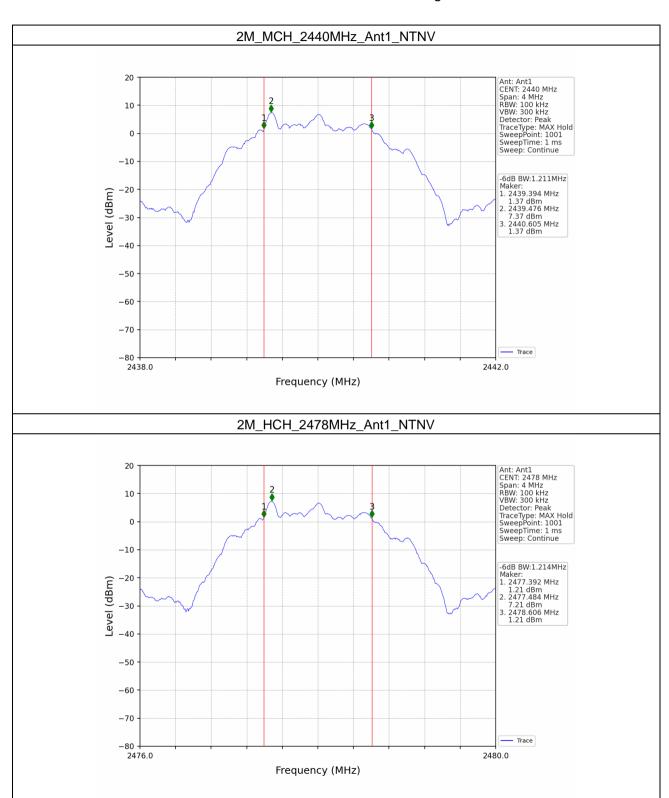
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Report No.: SZCR240300090903

Page: 113 of 132





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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240300090903

> 114 of 132 Page:

### 3. Maximum Conducted Output Power

3.1 Power

#### 3.1.1 Test Result

Mode	TX	Frequency	Maximum Peak Conduc	\/o.=di.a4	
	Туре	(MHz)	ANT1	Limit	Verdict
1M SISO		2402	7.90	<=30	Pass
	SISO	2440	7.74	<=30	Pass
		2480	7.58	<=30	Pass
		2404	7.81	<=30	Pass
2M	SISO	2440	7.68	<=30	Pass
		2478	7.56	<=30	Pass



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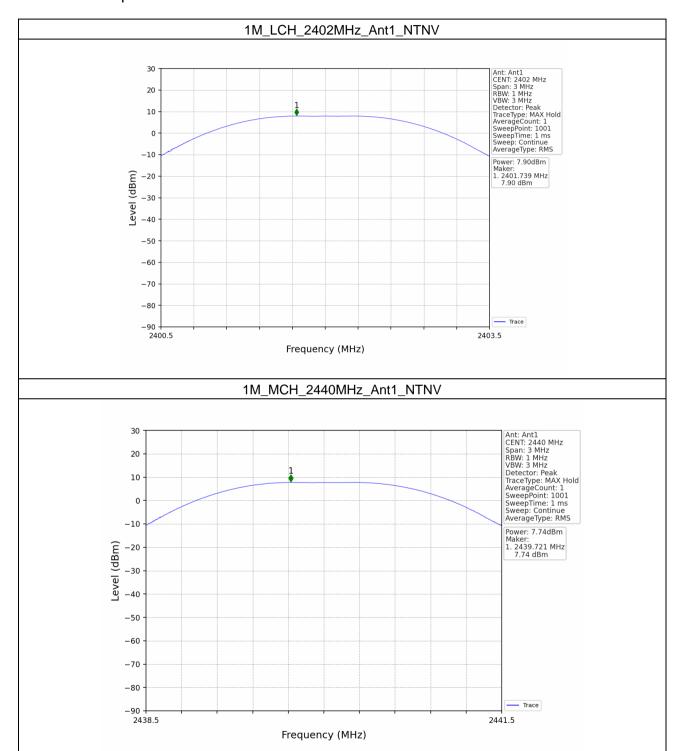


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### 3.1.2 Test Graph





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