

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240600227602

Page: 1 of 98

## TEST REPORT

**Application No.:** SZCR2406002276AT **Applicant:** Avantronics Limited

Address of Applicant: The 4th Floor, Yuepeng Building, No.1019 Jiabin Rd, Luohu District,

Shenzhen, 518002, China

Manufacturer: Avantronics Limited

Address of Manufacturer: The 4th Floor, Yuepeng Building, No.1019 Jiabin Rd, Luohu District,

Shenzhen, 518002, China

**Equipment Under Test (EUT):** 

EUT Name: Aria 3

Model No.: ATBH-AS92, ATBH-AS92-T, BTHS-AS92, BTHS-AS92-TA, ATBH-AS92-P,

ATBH-AS92-R, ATBH-AS90P

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

actually tested and which were electrically identical.

Trade Mark: Avantalk, Avantree FCC ID: WJ5-ATBH-AS92

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

**Date of Receipt:** 2024-06-13

**Date of Test:** 2024-06-15 to 2024-07-08

**Date of Issue:** 2024-07-09

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.: SZCR240600227602

Page: 2 of 98

	Revision Record							
Version	Chapter	Date	Modifier	Remark				
01		2024-07-09		Original				

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



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600227602

Page: 3 of 98

#### **Test Summary** 2

Radio Spectrum Technical Requirement							
Item	Standard	Method	Requirement	Result			
Antenna Requirement		N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass			
Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.247(a)(1),(g),(h)	Pass			

Radio Spectrum Matter Part						
Item	Standard	Method	Requirement	Result		
Conducted Emissions at AC Power Line (150kHz-30MHz)		ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass		
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass		
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass		
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass		
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.5	47 CFR Part 15, Subpart C 15.247(b)(1)	Pass		
20dB Bandwidth		ANSI C63.10 (2013) Section 7.8.7	47 CFR Part 15, Subpart C 15.247(a)(1)	Pass		
Carrier Frequencies Separation		ANSI C63.10 (2013) Section 7.8.2	47 CFR Part 15, Subpart C 15.247a(1)	Pass		
Hopping Channel Number		ANSI C63.10 (2013) Section 7.8.3	47 CFR Part 15, Subpart C 15.247a(1)(iii)	Pass		
Dwell Time		ANSI C63.10 (2013) Section 7.8.4	47 CFR Part 15, Subpart C 15.247a(1)(iii)	Pass		
Conducted Band Edges Measurement		ANSI C63.10 (2013) Section 7.8.6	47 CFR Part 15, Subpart C 15.247(d)	Pass		
Conducted Spurious Emissions		ANSI C63.10 (2013) Section 7.8.8	47 CFR Part 15, Subpart C 15.247(d)	Pass		



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240600227602

Page: 4 of 98

#### **Declaration of EUT Family Grouping:**

Model No.: ATBH-AS92, ATBH-AS92-T, BTHS-AS92, BTHS-AS92-TA, ATBH-AS92-P, ATBH-AS92-R, ATBH-AS90P

Only the model ATBH-AS92 was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used, internal wiring and functions were identical for all the above models, with only difference on brands and software, with or without boom mic.



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600227602

Page: 5 of 98

#### 3 **Contents**

		Page
1	Cover Page	1
2	Test Summary	3
3	Contents	5
4	General Information	7
	4.1 Details of E.U.T	7
	4.2 Description of Support Units	7
	4.3 Measurement Uncertainty	
	4.4 Test Location	9
	4.5 Test Facility	
	4.6 Deviation from Standards	
	4.7 Abnormalities from Standard Conditions	9
5	Equipment List	10
_		
6	·	
	6.1 Antenna Requirement	
	6.1.1 Test Requirement:	
	6.1.2 Conclusion	
	6.2 Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence	
	6.2.1 Test Requirement:	
	6.2.2 Conclusion	13
7	Radio Spectrum Matter Test Results	15
	7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)	15
	7.1.1 E.U.T. Operation	15
	7.1.2 Test Mode Description	15
	7.1.3 Test Setup Diagram	16
	7.1.4 Measurement Procedure and Data	
	7.2 Radiated Emissions which fall in the restricted bands	
	7.2.1 E.U.T. Operation	
	7.2.2 Test Mode Description	
	7.2.3 Test Setup Diagram	
	7.2.4 Measurement Procedure and Data	
	7.3 Radiated Spurious Emissions Below 1GHz	
	7.3.1 E.U.T. Operation	
	7.3.2 Test Mode Description	
	7.3.3 Test Setup Diagram	
	7.3.4 Measurement Procedure and Data	
	7.4 Radiated Spurious Emissions Above 1GHz	
	7.4.1 E.G.1. Operation	
	7.4.2 Test Mode Description 7.4.3 Test Setup Diagram	
	7.7.0 1031 001up Diagram	∠3



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600227602

Page: 6 of 98

7.5 Conducted Peak Output Power 7.5.1 E.U.T. Operation		7.4.4 Measurement Procedure and Data	30
7.5.2 Test Mode Description 7.5.3 Test Setup Diagram 7.5.4 Measurement Procedure and Data 7.6 20dB Bandwidth 7.6.1 E.U.T. Operation 7.6.2 Test Mode Description 7.6.3 Test Setup Diagram 7.6.4 Measurement Procedure and Data 7.7 Carrier Frequencies Separation 7.7.1 E.U.T. Operation 7.7.2 Test Mode Description 7.7.3 Test Setup Diagram 7.7.4 Measurement Procedure and Data 7.8 Hopping Channel Number 7.8.1 E.U.T. Operation 7.8.2 Test Mode Description 7.8.3 Test Setup Diagram 7.8.4 Hopping Channel Number 7.8.1 E.U.T. Operation 7.8.2 Test Mode Description 7.8.3 Test Setup Diagram 7.8.4 Measurement Procedure and Data 7.9 Dwell Time 7.9.1 E.U.T. Operation 7.9.2 Test Mode Description 7.9.3 Test Setup Diagram 7.9.4 Measurement Procedure and Data 7.9.1 E.U.T. Operation 7.9.2 Test Mode Description 7.9.3 Test Setup Diagram 7.9.4 Measurement Procedure and Data 7.10 Conducted Band Edges Measurement 7.10.1 E.U.T. Operation 7.10.2 Test Mode Description 7.10.3 Test Setup Diagram 7.10.4 Measurement Procedure and Data 7.10.5 Test Mode Description 7.10.6 Test Setup Diagram 7.10.7 Test Setup Diagram 7.10.8 Test Setup Diagram 7.10.9 Test Mode Description 7.10.1 E.U.T. Operation 7.10.1 E.U.T. Operation 7.10.2 Test Mode Description 7.10.3 Test Setup Diagram 7.10.4 Measurement Procedure and Data 7.11.1 E.U.T. Operation 7.11.2 Test Mode Description 7.11.3 Test Setup Diagram 7.11.4 Measurement Procedure and Data 7.11.4 Measurement Procedure and Data 7.11.4 Measurement Procedure and Data	7.	'.5 Conducted Peak Output Power	37
7.5.4 Measurement Procedure and Data 7.6.2 Odd Bandwidth 7.6.1 E.U.T. Operation 7.6.2 Test Mode Description 7.6.3 Test Setup Diagram 7.6.4 Measurement Procedure and Data 7.7 Carrier Frequencies Separation 7.7.1 E.U.T. Operation 7.7.2 Test Mode Description 7.7.3 Test Setup Diagram 7.4 Measurement Procedure and Data 7.8 Hopping Channel Number 7.8.1 E.U.T. Operation 7.8.2 Test Mode Description 7.8.3 Test Setup Diagram 7.8.4 Measurement Procedure and Data 7.9 Dwell Time 7.9.1 E.U.T. Operation 7.9.2 Test Mode Description 7.9.3 Test Setup Diagram 7.9.4 Measurement Procedure and Data 7.9.1 E.U.T. Operation 7.9.2 Test Mode Description 7.9.3 Test Setup Diagram 7.9.4 Measurement Procedure and Data 7.10 Conducted Band Edges Measurement 7.10.1 E.U.T. Operation 7.10.2 Test Mode Description 7.10.3 Test Setup Diagram 7.10.4 Measurement Procedure and Data 7.10 Conducted Band Edges Measurement 7.10.1 E.U.T. Operation 7.10.2 Test Mode Description 7.10.3 Test Setup Diagram 7.10.4 Measurement Procedure and Data 7.11 Conducted Spurious Emissions 7.11.1 E.U.T. Operation 7.11.2 Test Mode Description 7.11.3 Test Setup Diagram 7.11.4 Measurement Procedure and Data 7.11.1 E.U.T. Operation 7.11.2 Test Mode Description 7.11.3 Test Setup Diagram 7.11.4 Measurement Procedure and Data		7.5.1 E.U.T. Operation	37
7.5.4 Measurement Procedure and Data 7.6 20dB Bandwidth 7.6.1 E.U.T. Operation 7.6.2 Test Mode Description 7.6.3 Test Setup Diagram 7.6.4 Measurement Procedure and Data 7.7 Carrier Frequencies Separation 7.7.1 E.U.T. Operation 7.7.2 Test Mode Description 7.7.3 Test Setup Diagram 7.7.4 Measurement Procedure and Data 7.8 Hopping Channel Number 7.8.1 E.U.T. Operation 7.8.2 Test Mode Description 7.8.3 Test Setup Diagram 7.8.4 Measurement Procedure and Data 7.9 Dwell Time 7.9.1 E.U.T. Operation 7.9.2 Test Mode Description 7.9.3 Test Setup Diagram 7.9.4 Measurement Procedure and Data 7.9.5 Test Mode Description 7.9.1 E.U.T. Operation 7.9.2 Test Mode Description 7.9.3 Test Setup Diagram 7.9.4 Measurement Procedure and Data 7.10 Conducted Band Edges Measurement 7.10.1 E.U.T. Operation 7.10.2 Test Mode Description 7.10.3 Test Setup Diagram 7.10.4 Measurement Procedure and Data 7.11 Conducted Spurious Emissions 7.11.1 E.U.T. Operation 7.11.2 Test Mode Description 7.11.3 Test Setup Diagram 7.11.4 Measurement Procedure and Data 7.11 Conducted Spurious Emissions 7.11.1 E.U.T. Operation 7.11.2 Test Mode Description 7.11.3 Test Setup Diagram 7.11.4 Measurement Procedure and Data 7.11 Conducted Spurious Emissions 7.11.1 E.U.T. Operation 7.11.2 Test Mode Description 7.11.3 Test Setup Diagram 7.11.4 Measurement Procedure and Data		7.5.2 Test Mode Description	37
7.5.4 Measurement Procedure and Data 7.6 20dB Bandwidth 7.6.1 E.U.T. Operation 7.6.2 Test Mode Description 7.6.3 Test Setup Diagram 7.6.4 Measurement Procedure and Data 7.7 Carrier Frequencies Separation 7.7.1 E.U.T. Operation 7.7.2 Test Mode Description 7.7.3 Test Setup Diagram 7.7.4 Measurement Procedure and Data 7.8 Hopping Channel Number 7.8.1 E.U.T. Operation 7.8.2 Test Mode Description 7.8.3 Test Setup Diagram 7.8.4 Measurement Procedure and Data 7.9 Dwell Time 7.9.1 E.U.T. Operation 7.9.2 Test Mode Description 7.9.3 Test Setup Diagram 7.9.4 Measurement Procedure and Data 7.9.5 Test Mode Description 7.9.1 E.U.T. Operation 7.9.2 Test Mode Description 7.9.3 Test Setup Diagram 7.9.4 Measurement Procedure and Data 7.10 Conducted Band Edges Measurement 7.10.1 E.U.T. Operation 7.10.2 Test Mode Description 7.10.3 Test Setup Diagram 7.10.4 Measurement Procedure and Data 7.11 Conducted Spurious Emissions 7.11.1 E.U.T. Operation 7.11.2 Test Mode Description 7.11.3 Test Setup Diagram 7.11.4 Measurement Procedure and Data 7.11 Conducted Spurious Emissions 7.11.1 E.U.T. Operation 7.11.2 Test Mode Description 7.11.3 Test Setup Diagram 7.11.4 Measurement Procedure and Data 7.11 Conducted Spurious Emissions 7.11.1 E.U.T. Operation 7.11.2 Test Mode Description 7.11.3 Test Setup Diagram 7.11.4 Measurement Procedure and Data		7.5.3 Test Setup Diagram	37
7.6.1 E.U.T. Operation. 7.6.2 Test Mode Description 7.6.3 Test Setup Diagram 7.6.4 Measurement Procedure and Data 7.7 Carrier Frequencies Separation 7.7.1 E.U.T. Operation. 7.7.2 Test Mode Description 7.7.3 Test Setup Diagram 7.7.4 Measurement Procedure and Data 7.8 Hopping Channel Number. 7.8.1 E.U.T. Operation. 7.8.2 Test Mode Description 7.8.3 Test Setup Diagram 7.8.4 Measurement Procedure and Data 7.9 Dwell Time 7.9.1 E.U.T. Operation. 7.9.2 Test Mode Description 7.9.3 Test Setup Diagram 7.9.4 Measurement Procedure and Data 7.9.1 E.U.T. Operation. 7.9.2 Test Mode Description 7.9.3 Test Setup Diagram 7.9.4 Measurement Procedure and Data 7.10 Conducted Band Edges Measurement 7.10.1 E.U.T. Operation. 7.10.2 Test Mode Description 7.10.3 Test Setup Diagram 7.10.4 Measurement Procedure and Data 7.10 Conducted Spurious Emissions 7.11.1 E.U.T. Operation. 7.10.3 Test Setup Diagram 7.10.4 Measurement Procedure and Data. 7.11 Conducted Spurious Emissions 7.11.1 E.U.T. Operation. 7.11.2 Test Mode Description 7.11.3 Test Setup Diagram 7.11.4 Measurement Procedure and Data. 8 Test Setup Photo.		7.5.4 Measurement Procedure and Data	38
7.6.2 Test Mode Description 7.6.3 Test Setup Diagram 7.6.4 Measurement Procedure and Data. 7.7 Carrier Frequencies Separation 7.7.1 E.U.T. Operation 7.7.2 Test Mode Description 7.7.3 Test Setup Diagram 7.7.4 Measurement Procedure and Data. 7.8 Hopping Channel Number 7.8.1 E.U.T. Operation 7.8.2 Test Mode Description 7.8.3 Test Setup Diagram 7.8.4 Measurement Procedure and Data. 7.9 Dwell Time 7.9.1 E.U.T. Operation 7.9.2 Test Mode Description 7.9.3 Test Setup Diagram 7.9.4 Measurement Procedure and Data. 7.9.1 E.U.T. Operation 7.9.2 Test Mode Description 7.9.3 Test Setup Diagram 7.10.1 E.U.T. Operation 7.10.2 Test Mode Description 7.10.3 Test Setup Diagram 7.10.4 Measurement Procedure and Data. 7.10 Conducted Band Edges Measurement 7.10.1 E.U.T. Operation 7.10.2 Test Mode Description 7.10.3 Test Setup Diagram 7.10.4 Measurement Procedure and Data. 7.11 Conducted Spurious Emissions 7.11.1 E.U.T. Operation 7.11.2 Test Mode Description 7.11.3 Test Setup Diagram 7.11.4 Measurement Procedure and Data. 8 Test Setup Photo.	7.	'.6 20dB Bandwidth	39
7.6.3 Test Setup Diagram 7.6.4 Measurement Procedure and Data.  7.7 Carrier Frequencies Separation. 7.7.1 E.U.T. Operation. 7.7.2 Test Mode Description 7.7.3 Test Setup Diagram. 7.7.4 Measurement Procedure and Data. 7.8 Hopping Channel Number 7.8.1 E.U.T. Operation. 7.8.2 Test Mode Description 7.8.3 Test Setup Diagram. 7.8.4 Measurement Procedure and Data. 7.9 Dwell Time. 7.9.1 E.U.T. Operation. 7.9.2 Test Mode Description 7.9.3 Test Setup Diagram. 7.9.4 Measurement Procedure and Data. 7.10 Conducted Band Edges Measurement 7.10.1 E.U.T. Operation. 7.10.2 Test Mode Description 7.10.3 Test Setup Diagram. 7.10.4 Measurement Procedure and Data. 7.10 Conducted Band Edges Measurement 7.10.1 Test Mode Description 7.10.2 Test Mode Description 7.10.3 Test Setup Diagram 7.10.4 Measurement Procedure and Data. 7.11 Conducted Spurious Emissions 7.11.1 E.U.T. Operation. 7.11.2 Test Mode Description 7.11.3 Test Setup Diagram 7.10.4 Measurement Procedure and Data. 7.11.1 Conducted Spurious Emissions 7.11.1 E.U.T. Operation. 7.11.2 Test Mode Description 7.11.3 Test Setup Diagram 7.11.4 Measurement Procedure and Data.  7.11 Test Setup Diagram 7.11.4 Measurement Procedure and Data.  7.11.5 Test Mode Description 7.11.6 Test Mode Description 7.11.7 Test Mode Description 7.11.8 Test Setup Diagram 7.11.9 Test Mode Description 7.11.1 Test Mode Description 7.11.2 Test Mode Description 7.11.3 Test Setup Diagram 7.11.4 Measurement Procedure and Data.		7.6.1 E.U.T. Operation	39
7.6.4 Measurement Procedure and Data. 7.7 Carrier Frequencies Separation. 7.7.1 E.U.T. Operation. 7.7.2 Test Mode Description 7.7.3 Test Setup Diagram 7.7.4 Measurement Procedure and Data. 7.8 Hopping Channel Number 7.8.1 E.U.T. Operation. 7.8.2 Test Mode Description 7.8.3 Test Setup Diagram 7.8.4 Measurement Procedure and Data. 7.9 Dwell Time. 7.9.1 E.U.T. Operation. 7.9.2 Test Mode Description 7.9.3 Test Setup Diagram 7.9.4 Measurement Procedure and Data. 7.10 Conducted Band Edges Measurement 7.10.1 E.U.T. Operation. 7.10.2 Test Mode Description 7.10.3 Test Setup Diagram 7.10.4 Measurement Procedure and Data. 7.10.5 Test Mode Description 7.10.6 Test Mode Description 7.10.7 Test Setup Diagram 7.10.8 Test Setup Diagram 7.10.9 Test Mode Description 7.10.1 E.U.T. Operation 7.10.1 E.U.T. Operation 7.10.2 Test Mode Description 7.10.3 Test Setup Diagram 7.10.4 Measurement Procedure and Data. 7.11 Conducted Spurious Emissions 7.11.1 E.U.T. Operation 7.11.2 Test Mode Description 7.11.3 Test Setup Diagram 7.11.4 Measurement Procedure and Data. 8 Test Setup Photo.		7.6.2 Test Mode Description	39
7.7 Carrier Frequencies Separation 7.7.1 E.U.T. Operation 7.7.2 Test Mode Description 7.7.3 Test Setup Diagram 7.7.4 Measurement Procedure and Data. 7.8 Hopping Channel Number 7.8.1 E.U.T. Operation 7.8.2 Test Mode Description 7.8.3 Test Setup Diagram 7.8.4 Measurement Procedure and Data. 7.9 Dwell Time 7.9.1 E.U.T. Operation 7.9.2 Test Mode Description 7.9.3 Test Setup Diagram 7.9.4 Measurement Procedure and Data. 7.10 Conducted Band Edges Measurement 7.10.1 E.U.T. Operation 7.10.2 Test Mode Description 7.10.3 Test Setup Diagram 7.10.4 Measurement Procedure and Data. 7.11 Conducted Spurious Emissions 7.11.1 E.U.T. Operation 7.10.2 Test Mode Description 7.10.3 Test Setup Diagram 7.10.4 Measurement Procedure and Data. 7.11 Conducted Spurious Emissions 7.11.1 E.U.T. Operation 7.11.2 Test Mode Description 7.11.3 Test Setup Diagram 7.11.4 Measurement Procedure and Data. 8 Test Setup Photo		7.6.3 Test Setup Diagram	39
7.7.1 E.U.T. Operation 7.7.2 Test Mode Description 7.7.3 Test Setup Diagram 7.7.4 Measurement Procedure and Data. 7.8 Hopping Channel Number 7.8.1 E.U.T. Operation 7.8.2 Test Mode Description 7.8.3 Test Setup Diagram 7.8.4 Measurement Procedure and Data. 7.9 Dwell Time 7.9.1 E.U.T. Operation 7.9.2 Test Mode Description 7.9.3 Test Setup Diagram 7.9.4 Measurement Procedure and Data. 7.10 Conducted Band Edges Measurement 7.10.1 E.U.T. Operation 7.10.2 Test Mode Description 7.10.3 Test Setup Diagram 7.10.4 Measurement Procedure and Data. 7.10 Conducted Band Edges Measurement 7.10.1 E.U.T. Operation 7.10.2 Test Mode Description 7.10.3 Test Setup Diagram 7.10.4 Measurement Procedure and Data. 7.11 Conducted Spurious Emissions 7.11.1 E.U.T. Operation 7.11.2 Test Mode Description 7.11.3 Test Setup Diagram 7.11.4 Measurement Procedure and Data. 7.11.1 E.U.T. Operation 7.11.2 Test Mode Description 7.11.3 Test Setup Diagram 7.11.4 Measurement Procedure and Data. 7.11.4 Measurement Procedure and Data. 7.11.5 Test Setup Diagram 7.11.6 Test Setup Diagram 7.11.7 Test Setup Diagram 7.11.8 Test Setup Diagram 7.11.9 Test Setup Diagram 7.11.1 E.U.T. Operation		7.6.4 Measurement Procedure and Data	39
7.7.2 Test Mode Description 7.7.3 Test Setup Diagram 7.7.4 Measurement Procedure and Data. 7.8 Hopping Channel Number 7.8.1 E.U.T. Operation 7.8.2 Test Mode Description 7.8.3 Test Setup Diagram 7.8.4 Measurement Procedure and Data. 7.9 Dwell Time 7.9.1 E.U.T. Operation 7.9.2 Test Mode Description 7.9.3 Test Setup Diagram 7.9.4 Measurement Procedure and Data. 7.10 Conducted Band Edges Measurement 7.10.1 E.U.T. Operation 7.10.2 Test Mode Description 7.10.3 Test Setup Diagram 7.10.4 Measurement Procedure and Data. 7.10 Conducted Band Edges Measurement 7.10.1 E.U.T. Operation 7.10.2 Test Mode Description 7.10.3 Test Setup Diagram 7.10.4 Measurement Procedure and Data. 7.11 Conducted Spurious Emissions 7.11.1 E.U.T. Operation 7.11.2 Test Mode Description 7.11.3 Test Setup Diagram 7.11.4 Measurement Procedure and Data. 7.11.4 Measurement Procedure and Data. 7.11.5 Test Mode Description 7.11.1 E.U.T. Operation	7.	7.7 Carrier Frequencies Separation	40
7.7.3 Test Setup Diagram 7.7.4 Measurement Procedure and Data 7.8 Hopping Channel Number 7.8.1 E.U.T. Operation 7.8.2 Test Mode Description 7.8.3 Test Setup Diagram 7.8.4 Measurement Procedure and Data 7.9 Dwell Time 7.9.1 E.U.T. Operation 7.9.2 Test Mode Description 7.9.3 Test Setup Diagram 7.9.4 Measurement Procedure and Data 7.10 Conducted Band Edges Measurement 7.10.1 E.U.T. Operation 7.10.2 Test Mode Description 7.10.3 Test Setup Diagram 7.10.4 Measurement Procedure and Data 7.10.1 E.U.T. Operation 7.10.2 Test Mode Description 7.10.3 Test Setup Diagram 7.10.4 Measurement Procedure and Data 7.11 Conducted Spurious Emissions 7.11.1 E.U.T. Operation 7.11.2 Test Mode Description 7.11.3 Test Setup Diagram 7.11.4 Measurement Procedure and Data 7.11.5 Test Mode Description 7.11.6 Test Mode Description 7.11.7 Test Mode Description 7.11.8 Test Setup Diagram 7.11.9 Test Mode Description 7.11.1 E.U.T. Operation 7.11.2 Test Mode Description 7.11.3 Test Setup Diagram 7.11.4 Measurement Procedure and Data 7.11.5 Test Setup Photo  8 Test Setup Photo		7.7.1 E.U.T. Operation	40
7.7.4 Measurement Procedure and Data. 7.8 Hopping Channel Number 7.8.1 E.U.T. Operation 7.8.2 Test Mode Description 7.8.3 Test Setup Diagram 7.8.4 Measurement Procedure and Data. 7.9 Dwell Time 7.9.1 E.U.T. Operation 7.9.2 Test Mode Description 7.9.3 Test Setup Diagram 7.9.4 Measurement Procedure and Data. 7.10 Conducted Band Edges Measurement 7.10.1 E.U.T. Operation 7.10.2 Test Mode Description 7.10.3 Test Setup Diagram 7.10.4 Measurement Procedure and Data. 7.11 Conducted Spurious Emissions 7.11.1 E.U.T. Operation 7.11.2 Test Mode Description 7.11.3 Test Setup Diagram 7.11.4 Measurement Procedure and Data. 7.11.1 E.U.T. Operation 7.11.2 Test Mode Description 7.11.3 Test Setup Diagram 7.11.4 Measurement Procedure and Data. 8 Test Setup Photo		I I	
7.8 Hopping Channel Number 7.8.1 E.U.T. Operation 7.8.2 Test Mode Description 7.8.3 Test Setup Diagram 7.8.4 Measurement Procedure and Data 7.9 Dwell Time 7.9.1 E.U.T. Operation 7.9.2 Test Mode Description 7.9.3 Test Setup Diagram 7.9.4 Measurement Procedure and Data 7.10 Conducted Band Edges Measurement 7.10.1 E.U.T. Operation 7.10.2 Test Mode Description 7.10.3 Test Setup Diagram 7.10.4 Measurement Procedure and Data 7.11 Conducted Spurious Emissions 7.11.1 E.U.T. Operation 7.11.2 Test Mode Description 7.11.3 Test Setup Diagram 7.11.4 Measurement Procedure and Data 7.11.1 E.U.T. Operation 7.11.2 Test Mode Description 7.11.3 Test Setup Diagram 7.11.4 Measurement Procedure and Data			
7.8.1 E.U.T. Operation 7.8.2 Test Mode Description 7.8.3 Test Setup Diagram 7.8.4 Measurement Procedure and Data. 7.9 Dwell Time 7.9.1 E.U.T. Operation 7.9.2 Test Mode Description 7.9.3 Test Setup Diagram 7.9.4 Measurement Procedure and Data. 7.10 Conducted Band Edges Measurement 7.10.1 E.U.T. Operation 7.10.2 Test Mode Description 7.10.3 Test Setup Diagram 7.10.4 Measurement Procedure and Data 7.11 Conducted Spurious Emissions 7.11.1 E.U.T. Operation 7.11.2 Test Mode Description 7.11.3 Test Setup Diagram 7.11.4 Measurement Procedure and Data 7.11.4 Setup Diagram 7.11.5 Test Mode Description 7.11.6 Test Mode Description 7.11.7 Test Mode Description 7.11.8 Test Setup Diagram 7.11.9 Test Setup Diagram 7.11.1 Measurement Procedure and Data. 8 Test Setup Photo			
7.8.2 Test Mode Description 7.8.3 Test Setup Diagram 7.8.4 Measurement Procedure and Data. 7.9 Dwell Time 7.9.1 E.U.T. Operation 7.9.2 Test Mode Description 7.9.3 Test Setup Diagram 7.9.4 Measurement Procedure and Data. 7.10 Conducted Band Edges Measurement 7.10.1 E.U.T. Operation 7.10.2 Test Mode Description 7.10.3 Test Setup Diagram 7.10.4 Measurement Procedure and Data 7.10 Conducted Spurious Emissions 7.11.1 E.U.T. Operation 7.11.2 Test Mode Description 7.11.1 E.U.T. Operation 7.11.2 Test Mode Description 7.11.3 Test Setup Diagram 7.11.4 Measurement Procedure and Data  8 Test Setup Photo  9 EUT Constructional Details (EUT Photos)	7.	11 0	
7.8.3 Test Setup Diagram 7.8.4 Measurement Procedure and Data 7.9 Dwell Time 7.9.1 E.U.T. Operation 7.9.2 Test Mode Description 7.9.3 Test Setup Diagram 7.9.4 Measurement Procedure and Data 7.10 Conducted Band Edges Measurement 7.10.1 E.U.T. Operation 7.10.2 Test Mode Description 7.10.3 Test Setup Diagram 7.10.4 Measurement Procedure and Data 7.11 Conducted Spurious Emissions 7.11.1 E.U.T. Operation 7.11.2 Test Mode Description 7.11.3 Test Setup Diagram 7.11.4 Measurement Procedure and Data 7.11.6 Test Mode Description 7.11.7 Test Mode Description 7.11.8 Test Setup Diagram 7.11.9 Test Setup Diagram 7.11.1 Measurement Procedure and Data 8 Test Setup Photo			
7.8.4 Measurement Procedure and Data 7.9 Dwell Time 7.9.1 E.U.T. Operation 7.9.2 Test Mode Description 7.9.3 Test Setup Diagram 7.9.4 Measurement Procedure and Data 7.10 Conducted Band Edges Measurement 7.10.1 E.U.T. Operation 7.10.2 Test Mode Description 7.10.3 Test Setup Diagram 7.10.4 Measurement Procedure and Data. 7.11 Conducted Spurious Emissions 7.11.1 E.U.T. Operation 7.11.2 Test Mode Description 7.11.3 Test Setup Diagram 7.11.4 Measurement Procedure and Data. 8 Test Setup Photo 9 EUT Constructional Details (EUT Photos)		I I	
7.9 Dwell Time 7.9.1 E.U.T. Operation 7.9.2 Test Mode Description 7.9.3 Test Setup Diagram 7.9.4 Measurement Procedure and Data 7.10 Conducted Band Edges Measurement 7.10.1 E.U.T. Operation 7.10.2 Test Mode Description 7.10.3 Test Setup Diagram 7.10.4 Measurement Procedure and Data. 7.11 Conducted Spurious Emissions 7.11.1 E.U.T. Operation. 7.11.2 Test Mode Description 7.11.3 Test Setup Diagram 7.11.4 Measurement Procedure and Data. 8 Test Setup Photo 9 EUT Constructional Details (EUT Photos)			
7.9.1 E.U.T. Operation 7.9.2 Test Mode Description 7.9.3 Test Setup Diagram 7.9.4 Measurement Procedure and Data 7.10 Conducted Band Edges Measurement 7.10.1 E.U.T. Operation 7.10.2 Test Mode Description 7.10.3 Test Setup Diagram 7.10.4 Measurement Procedure and Data 7.11 Conducted Spurious Emissions 7.11.1 E.U.T. Operation 7.11.2 Test Mode Description 7.11.3 Test Setup Diagram 7.11.4 Measurement Procedure and Data 8 Test Setup Photo  9 EUT Constructional Details (EUT Photos)			
7.9.2 Test Mode Description 7.9.3 Test Setup Diagram 7.9.4 Measurement Procedure and Data 7.10 Conducted Band Edges Measurement 7.10.1 E.U.T. Operation 7.10.2 Test Mode Description 7.10.3 Test Setup Diagram 7.10.4 Measurement Procedure and Data 7.11 Conducted Spurious Emissions 7.11.1 E.U.T. Operation 7.11.2 Test Mode Description 7.11.3 Test Setup Diagram 7.11.4 Measurement Procedure and Data.  8 Test Setup Photo  9 EUT Constructional Details (EUT Photos)	7.		
7.9.3 Test Setup Diagram 7.9.4 Measurement Procedure and Data. 7.10 Conducted Band Edges Measurement 7.10.1 E.U.T. Operation. 7.10.2 Test Mode Description. 7.10.3 Test Setup Diagram. 7.10.4 Measurement Procedure and Data. 7.11 Conducted Spurious Emissions. 7.11.1 E.U.T. Operation. 7.11.2 Test Mode Description. 7.11.3 Test Setup Diagram. 7.11.4 Measurement Procedure and Data. 8 Test Setup Photo.			
7.9.4 Measurement Procedure and Data 7.10 Conducted Band Edges Measurement 7.10.1 E.U.T. Operation			
7.10 Conducted Band Edges Measurement 7.10.1 E.U.T. Operation		1 5	
7.10.1 E.U.T. Operation 7.10.2 Test Mode Description 7.10.3 Test Setup Diagram 7.10.4 Measurement Procedure and Data 7.11 Conducted Spurious Emissions 7.11.1 E.U.T. Operation 7.11.2 Test Mode Description 7.11.3 Test Setup Diagram 7.11.4 Measurement Procedure and Data  8 Test Setup Photo  9 EUT Constructional Details (EUT Photos)	_		
7.10.2 Test Mode Description 7.10.3 Test Setup Diagram 7.10.4 Measurement Procedure and Data 7.11 Conducted Spurious Emissions 7.11.1 E.U.T. Operation 7.11.2 Test Mode Description 7.11.3 Test Setup Diagram 7.11.4 Measurement Procedure and Data  8 Test Setup Photo  9 EUT Constructional Details (EUT Photos)	7.		
7.10.3 Test Setup Diagram 7.10.4 Measurement Procedure and Data 7.11 Conducted Spurious Emissions 7.11.1 E.U.T. Operation 7.11.2 Test Mode Description 7.11.3 Test Setup Diagram 7.11.4 Measurement Procedure and Data  8 Test Setup Photo  9 EUT Constructional Details (EUT Photos)		· · · · · · · · · · · · · · · · · · ·	
7.10.4 Measurement Procedure and Data 7.11 Conducted Spurious Emissions 7.11.1 E.U.T. Operation 7.11.2 Test Mode Description 7.11.3 Test Setup Diagram 7.11.4 Measurement Procedure and Data  8 Test Setup Photo  9 EUT Constructional Details (EUT Photos)		· · · · · · · · · · · · · · · · · · ·	
7.11 Conducted Spurious Emissions 7.11.1 E.U.T. Operation 7.11.2 Test Mode Description 7.11.3 Test Setup Diagram 7.11.4 Measurement Procedure and Data  8 Test Setup Photo  9 EUT Constructional Details (EUT Photos)		1 5	
7.11.1 E.U.T. Operation	_		
7.11.2 Test Mode Description 7.11.3 Test Setup Diagram 7.11.4 Measurement Procedure and Data  8 Test Setup Photo  9 EUT Constructional Details (EUT Photos)	7.		
7.11.3 Test Setup Diagram 7.11.4 Measurement Procedure and Data			
7.11.4 Measurement Procedure and Data  8 Test Setup Photo			
8 Test Setup Photo		1 5	
9 EUT Constructional Details (EUT Photos)			
	8	Test Setup Photo	47
10 Appendix	9	EUT Constructional Details (EUT Photos)	47
IV AUUCIIUIA	10	Appendix	48



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240600227602

> Page: 7 of 98

### **General Information**

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

= 0.0	
Power supply:	DC 5V from adapter input AC 230V/50Hz
	Lithium Ion Battery: DC 3.7V 650mAh 2.405Wh rechargeable battery
Cable(s):	AUX in cable:115cm unshielded
	USB cable:45cm unshielded
Cable Loss (for RF conducted test):	0.4dB
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.2 Dual mode
Modulation Type:	GFSK, pi/4DQPSK, 8DPSK
Number of Channels:	79
Channel Spacing:	1MHz
Spectrum Spread Technology:	Frequency Hopping Spread Spectrum(FHSS)
Antenna Type:	Chip Antenna
Antenna Gain:	1.75dBi

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

### 4.2 Description of Support Units

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



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600227602

Page: 8 of 98

#### 4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.1dB
Radiated Emissions which fall in the restricted bands	± 6.0dB (Below 1GHz);± 4.6dB (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	± 6.0dB for 3m; ± 5.0dB for 10m
Radiated Spurious Emissions Above 1GHz	± 4.6dB (1-18GHz);± 4.8dB (18- 40GHz)
Conducted Peak Output Power	± 0.75dB
20dB Bandwidth	± 3%
Carrier Frequencies Separation	± 7.25 x 10-8
Hopping Channel Number	± 7.25 x 10-8
Dwell Time	± 0.37%
Conducted Band Edges Measurement	± 0.75dB
Conducted Spurious Emissions	± 0.75dB

#### Remark:

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

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



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240600227602

Page: 9 of 98

#### 4.4 Test Location

All tests were performed at:

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

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

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

No tests were sub-contracted.

#### 4.5 Test Facility

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

#### A2LA (Certificate No. 3816.01)

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

#### VCCI (Member No. 1937)

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

#### • FCC -Designation Number: CN1336

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

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

#### Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

#### 4.6 Deviation from Standards

None

#### 4.7 Abnormalities from Standard Conditions

None



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600227602

Page: 10 of 98

#### 5 **Equipment List**

Conducted Emissions at AC Power Line (150kHz-30MHz)						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2022-05-14	2025-05-13	
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2024-03-14	2025-03-13	
Measurement Software	AUDIX	e3 V8.2014-6- 27a	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM024-01	2024-07-06	2025-07-05	
LISN	Rohde&Schwarz	ENV216	SEM007-01	2023-09-19	2024-09-18	
LISN	ETS-LINDGREN	3816/2	SEM007-02	2024-03-14	2025-03-13	

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2022-08-10	2024-08-09
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2024-03-15	2025-03-14

Radiated Spurious Emissions Below 1GHz						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19	
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18	
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	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	2024-07-06	2025-07-05	



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Report No.: SZCR240600227602

Page: 11 of 98

Radiated Spurious Emis	Radiated Spurious Emissions Above 1GHz									
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date					
3m Fully-Anechoic Chamber	AIIIJIX		SEM001-02	2024-05-11	2027-05-10					
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14					
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22					
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18					
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A					
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05					
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2022-08-10	2024-08-09					
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2024-03-15	2025-03-14					

RF Conducted Test									
Equipment	Manufacturer	Model No.	Inventory No. Cal Date		Cal Due Date				
Power Sensor	ver Sensor TST PASS		SEM009-26	2024-03-27	2025-03-26				
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2024-03-14	2025-03-13				
DC Power Supply	Chroma	62012P-80-60	SEM011-11	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	2024-07-06	2025-07-05				
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2024-03-27	2025-03-26				

General used equipment									
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date				
Humidity/ Temperature Indicator	deli	8838	SEM002-32	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.: SZCR240600227602

Page: 12 of 98

### 6 Radio Spectrum Technical Requirement

#### 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 1.75dBi.

Antenna location: Refer to internal photos



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240600227602

Page: 13 of 98

# 6.2 Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence

#### 6.2.1 Test Requirement:

47 CFR Part 15, Subpart C 15.247(a)(1),(g),(h)

#### 6.2.2 Conclusion

Standard Requirement:

The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section.

The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

Compliance for section 15.247(a)(1):

According to Technical Specification, the pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized with nine ones.

- > Number of shift register stages: 9
- > Length of pseudo-random sequence: 29 -1 = 511 bits
- > Longest sequence of zeros: 8 (non-inverted signal)

Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:

Each frequency used equally on the average by each transmitter.

According to Technical Specification, the receivers are designed to have input and IF bandwidths that match the hopping channel bandwidths of any transmitters and shift frequencies in synchronization with the transmitted signals.

Compliance for section 15.247(g):

According to Technical Specification, the system transmits the packet with the pseudorandom hopping frequency with a continuous data and the short burst transmission from the Bluetooth system is also transmitted under the frequency hopping system with the pseudorandom hopping frequency system.



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240600227602

> Page: 14 of 98

Compliance for section 15.247(h):

According to Technical specification, the system incorporates with an adaptive system to detect other user within the spectrum band so that it individually and independently to avoid hopping on the occupied channels.

The system is designed not have the ability to coordinated with other FHSS System in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitter.



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600227602

Page: 15 of 98

### 7 Radio Spectrum Matter Test Results

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

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

Limit:

Fraguency of emission/MHT)	Conducted limit(dBμV)						
Frequency of emission(MHz)	Quasi-peak	Average					
0.15-0.5	66 to 56*	56 to 46*					
0.5-5	56	46					
5-30	5-30 60 50						
*Decreases with the logarithm of the frequency.							
Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz							

#### 7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C Humidity: 53.8 % RH Atmospheric Pressure: 1020 mbar

### 7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
Final test	01	Charge + TX_non-Hop mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.



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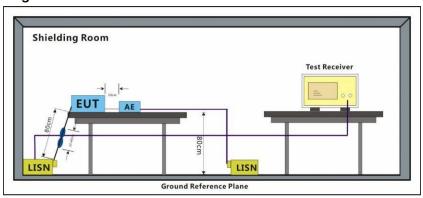
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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240600227602

Page: 16 of 98

#### 7.1.3 Test Setup Diagram



#### 7.1.4 Measurement Procedure and Data

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

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



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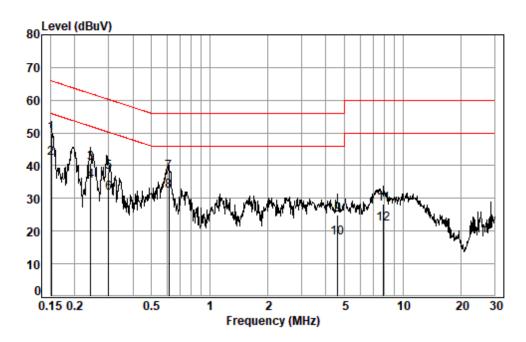


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600227602

Page: 17 of 98

Test Mode: 01; Line: Live line



Site : Shielding Room

Condition: Line Job No. : 02276AT

Test mode: 01

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1516	0.02	9.48	40.46	49.96	65.91	-15.95	QP
2 *	0.1516	0.02	9.48	32.82	42.32	55.91	-13.59	Average
3	0.2416	0.03	9.49	31.27	40.79	62.04	-21.25	QP
4	0.2416	0.03	9.49	25.81	35.33	52.04	-16.71	Average
5	0.3003	0.03	9.54	28.53	38.10	60.24	-22.14	QP
6	0.3003	0.03	9.54	21.96	31.53	50.24	-18.71	Average
7	0.6140	0.04	9.63	28.42	38.09	56.00	-17.91	QP
8	0.6140	0.04	9.63	22.54	32.21	46.00	-13.79	Average
9	4.5979	0.09	9.57	15.43	25.09	56.00	-30.91	QP
10	4.5979	0.09	9.57	8.26	17.92	46.00	-28.08	Average
11	7.9353	0.14	9.79	18.38	28.31	60.00	-31.69	QP
12	7.9353	0.14	9.79	12.19	22.12	50.00	-27.88	Average



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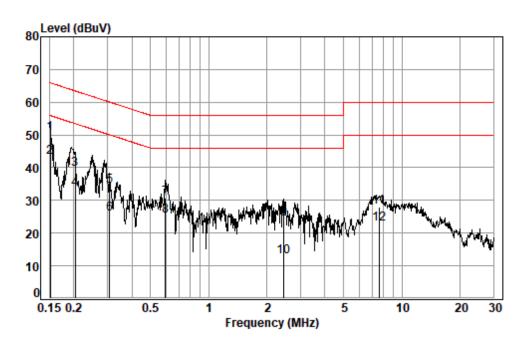


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Report No.: SZCR240600227602

Page: 18 of 98

Test Mode: 01; Line: Neutral Line



: Shielding Room

Condition: Neutral Job No. : 02276AT

Test mode: 01

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
-	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1516	0.02	9.63	40.76	50.41	65.91	-15.50	QP
2 *	0.1516	0.02	9.63	33.55	43.20	55.91	-12.71	Average
3	0.2040	0.02	9.66	29.79	39.47	63.45	-23.98	QP
4	0.2040	0.02	9.66	23.71	33.39	53.45	-20.06	Average
5	0.3067	0.03	9.70	24.67	34.40	60.06	-25.66	QP
6	0.3067	0.03	9.70	16.09	25.82	50.06	-24.24	Average
7	0.5979	0.04	9.88	20.94	30.86	56.00	-25.14	QP
8	0.5979	0.04	9.88	15.34	25.26	46.00	-20.74	Average
9	2.4606	0.07	9.64	14.49	24.20	56.00	-31.80	QP
10	2.4606	0.07	9.64	2.92	12.63	46.00	-33.37	Average
11	7.6060	0.13	9.90	17.90	27.93	60.00	-32.07	QP
12	7.6060	0.13	9.90	12.65	22.68	50.00	-27.32	Average



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Page: 19 of 98

#### 7.2 Radiated Emissions which fall in the restricted bands

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

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

Measurement Distance: 3m

Limit:

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

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

#### 7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C Humidity: 57.9 % RH Atmospheric Pressure: 1020 mbar

#### 7.2.2 Test Mode Description

7.2.2 Test mode besomption									
Pre-scan / Final test	Mode Code	Description							
Final test	00	TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.							
Pre-scan	01	Charge + TX_non-Hop mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.							



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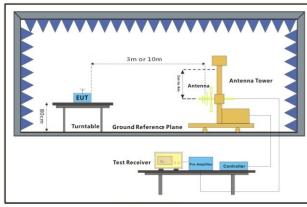


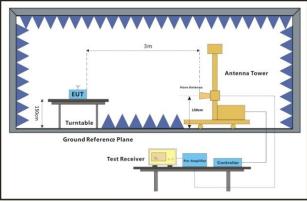
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Report No.: SZCR240600227602

Page: 20 of 98

#### 7.2.3 Test Setup Diagram





Above 1GHz

30MHz-1GHz

#### 7.2.4 Measurement Procedure and Data

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

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

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



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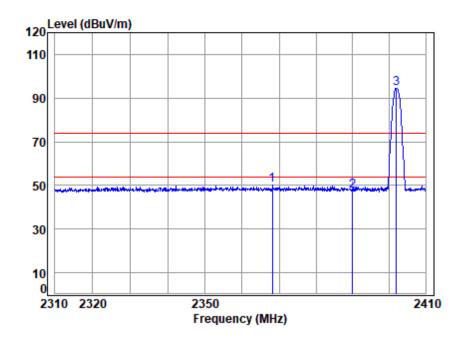


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600227602

Page: 21 of 98

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02276AT

Mode : 2402 Band edge

Note : BT

		Freq				Read Level				Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		2368.186	15.80	29.10	52.13	57.21	49.98	74.00	-24.02	peak
2		2390.000	15.81	29.10	52.13	54.89	47.67	74.00	-26.33	peak
3	р	2402.000	15.82	29.09	52.13	101.65	94.43	74.00	20.43	peak



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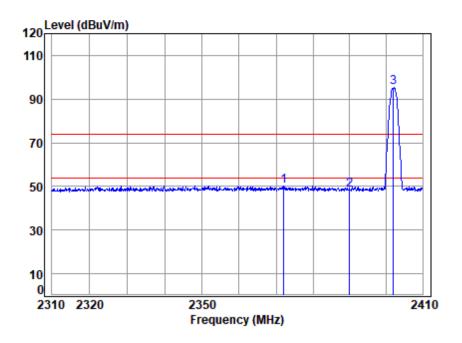


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600227602

Page: 22 of 98

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



Site : chamber

Condition: 3m VERTICAL

Job No : 02276AT

Mode : 2402 Band edge

Note : BT

		Freq				Read Level				Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		2372.103	15.80	29.10	52.13	57.53	50.30	74.00	-23.70	peak
2		2390.000	15.81	29.10	52.13	55.57	48.35	74.00	-25.65	peak
3	р	2402.000	15.82	29.09	52.13	102.36	95.14	74.00	21.14	peak



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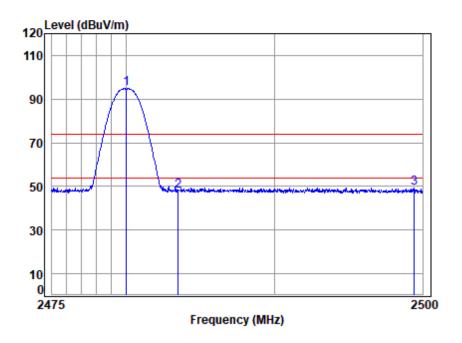


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600227602

Page: 23 of 98

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02276AT

Mode : 2480 Band edge

Note : BT

	Freq				Read Level				Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	2480.000	15.86	28.90	52.14	102.09	94.71	74.00	20.71	peak
2	2483.500	15.86	28.90	52.14	55.20	47.82	74.00	-26.18	peak
3	2499.447	15.87	28.90	52.14	56.81	49.44	74.00	-24.56	peak



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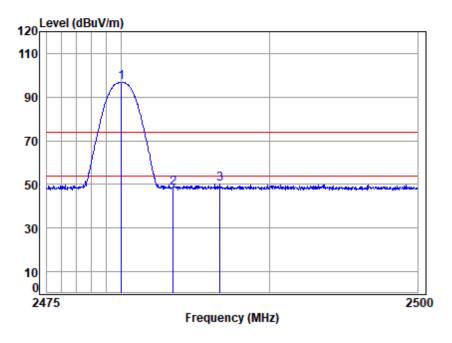


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600227602

Page: 24 of 98

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



Site : chamber

Condition: 3m VERTICAL

Job No : 02276AT

Mode : 2480 Band edge

Note : BT

	Freq		Ant Factor	•					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	2480.000	15.86	28.90	52.14	103.94	96.56	74.00	22.56	peak
2	2483.500	15.86	28.90	52.14	55.55	48.17	74.00	-25.83	peak
3	2486.644	15.86	28.90	52.14	57.47	50.09	74.00	-23.91	peak



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600227602

Page: 25 of 98

#### 7.3 Radiated Spurious Emissions Below 1GHz

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

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

Measurement Distance: 3m

#### Limit:

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

#### 7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 47.5 % RH Atmospheric Pressure: 1020 mbar

#### 7.3.2 Test Mode Description

	1012 1001 11040 2000 151011								
Pre-scan / Final test	Mode Code	Description							
Pre-scan	00	TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.							
Final test	01	Charge + TX_non-Hop mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.							



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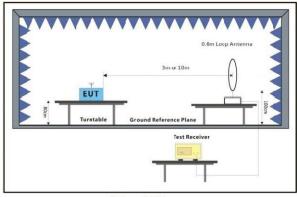


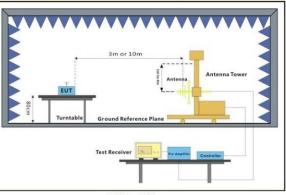
SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600227602

Page: 26 of 98

#### 7.3.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz

#### 7.3.4 Measurement Procedure and Data

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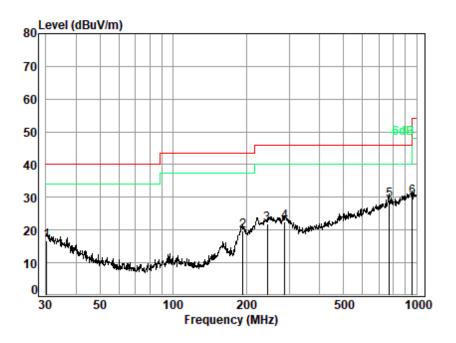


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600227602

Page: 27 of 98

Test Mode: 01; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 02276AT

Test Mode: 01

	Freq			Preamp Factor					Remark
-	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	——dB	
1	30.21	21.10	0.64	27.79	22.93	16.88	40.00	-23.12	QP
2	193.77	14.18	1.70	27.20	30.98	19.66	43.50	-23.84	QP
3	243.38	17.09	1.92	26.99	29.77	21.79	46.00	-24.21	QP
4	286.98	16.96	2.11	26.80	30.10	22.37	46.00	-23.63	QP
5	771.45	26.76	3.74	27.55	26.10	29.05	46.00	-16.95	QР
6 0	958 79	28 10	1 21	26 34	24 03	30 03	16 00	_15 97	OP



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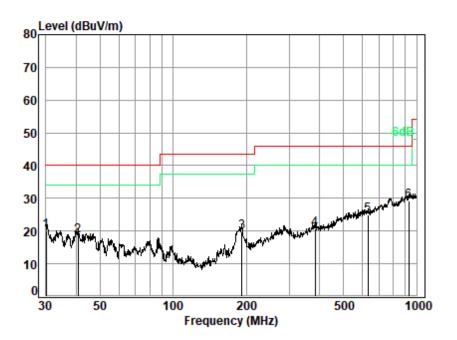


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600227602

Page: 28 of 98

Test Mode: 01; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL Job No. : 02276AT

Test Mode: 01

		Ant	Cable Preamp		Read		Limit	0ver	
	Freq	Factor	Loss	Factor	actor Level		Level Line		Remark
_	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.11	21.15	0.64	27.79	26.21	20.21	40.00	-19.79	QP
2	40.70	16.05	0.76	27.76	29.63	18.68	40.00	-21.32	QP
3	191.75	14.26	1.69	27.20	31.00	19.75	43.50	-23.75	QP
4	383.93	20.90	2.49	27.09	24.38	20.68	46.00	-25.32	QP
5	631.69	24.79	3.31	27.89	24.60	24.81	46.00	-21.19	QP
6 a	929.01	28.16	4.17	26.56	23.43	29.20	46.00	-16.80	OP.



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600227602

Page: 29 of 98

#### 7.4 Radiated Spurious Emissions Above 1GHz

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

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

Measurement Distance: 3m

#### Limit:

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

#### 7.4.1 E.U.T. Operation

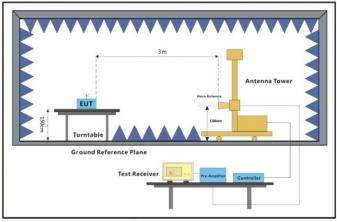
Operating Environment:

Temperature: 23.2 °C Humidity: 58.0 % RH Atmospheric Pressure: 1020 mbar

#### 7.4.2 Test Mode Description

The root moto posciption								
Pre-scan / Final test	Mode Code	Description						
Final test	00	TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.						
Pre-scan	01	Charge + TX_non-Hop mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.						

#### 7.4.3 Test Setup Diagram



Above 1GHz



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240600227602

Page: 30 of 98

#### 7.4.4 Measurement Procedure and Data

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

#### Remark:

- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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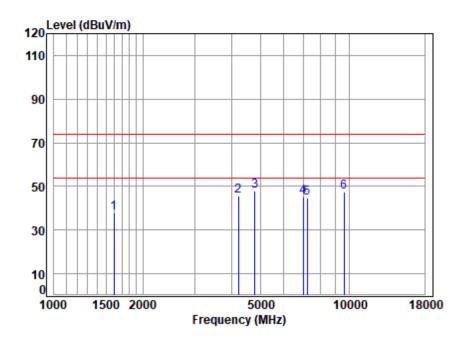


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600227602

Page: 31 of 98

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02276AT

Mode : 2402 TX RSE

: BT

		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	1597.181	4.78	26.81	61.69	68.01	37.91	74.00	-36.09	peak
2	4218.186	8.24	33.80	61.38	64.77	45.43	74.00	-28.57	peak
3 p	4804.000	8.00	34.32	61.88	67.29	47.73	74.00	-26.27	peak
4	6995.172	9.53	35.71	62.16	61.93	45.01	74.00	-28.99	peak
5	7206.000	9.32	35.70	62.04	61.91	44.89	74.00	-29.11	peak
6	9608.000	11.41	37.42	62.15	60.93	47.61	74.00	-26.39	peak



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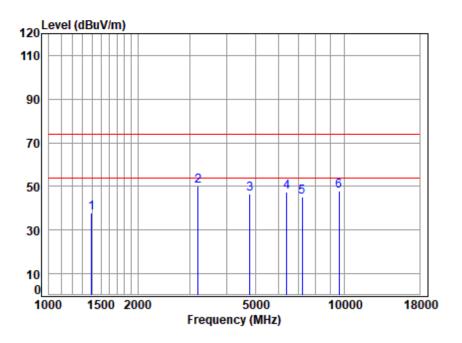


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600227602

Page: 32 of 98

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



Site : chamber

Condition: 3m VERTICAL

Job No : 02276AT

Mode : 2402 TX RSE

: BT

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1394.300	4.57	24.59	61.62	70.53	38.07	74.00	-35.93	peak
2 p	3196.094	6.78	32.87	61.36	71.76	50.05	74.00	-23.95	peak
3	4804.000	8.00	34.32	61.88	66.22	46.66	74.00	-27.34	peak
4	6395.654	9.22	35.17	62.50	65.61	47.50	74.00	-26.50	peak
5	7206.000	9.32	35.70	62.04	62.19	45.17	74.00	-28.83	peak
6	9608.000	11.41	37.42	62.15	61.12	47.80	74.00	-26.20	peak



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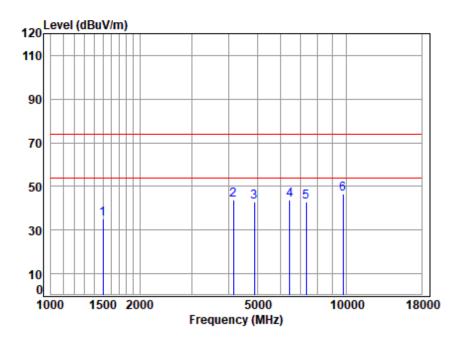


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600227602

Page: 33 of 98

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02276AT

Mode : 2441 TX RSE

: BT

		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	1503.119	4.58	26.81	61.66	65.18	34.91	74.00	-39.09	peak	
2	4145.664	8.35	33.73	61.31	63.00	43.77	74.00	-30.23	peak	
3	4882.000	8.03	34.63	61.95	62.05	42.76	74.00	-31.24	peak	
4	6432.732	9.19	35.40	62.48	61.78	43.89	74.00	-30.11	peak	
5	7323.000	9.20	35.70	61.98	59.78	42.70	74.00	-31.30	peak	
6	p 9764.000	11.32	37.37	62.19	59.98	46.48	74.00	-27.52	peak	



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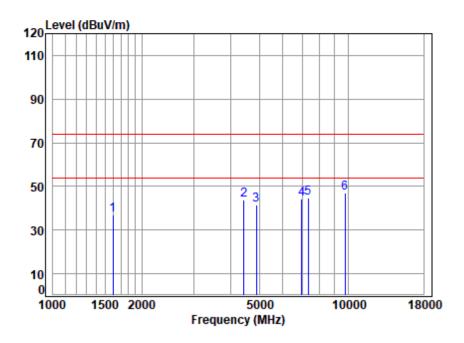


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600227602

Page: 34 of 98

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



Site : chamber

Condition: 3m VERTICAL

Job No : 02276AT

Mode : 2441 TX RSE

: BT

			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	1597.181	4.78	26.81	61.69	67.02	36.92	74.00	-37.08	peak
1	2	4443.453	7.94	34.28	61.58	63.10	43.74	74.00	-30.26	peak
1	3	4882.000	8.03	34.63	61.95	60.74	41.45	74.00	-32.55	peak
4	4	6954.852	9.50	35.79	62.18	61.10	44.21	74.00	-29.79	peak
	5	7323.000	9.20	35.70	61.98	61.96	44.88	74.00	-29.12	peak
(	5 р	9764.000	11.32	37.37	62.19	60.31	46.81	74.00	-27.19	peak



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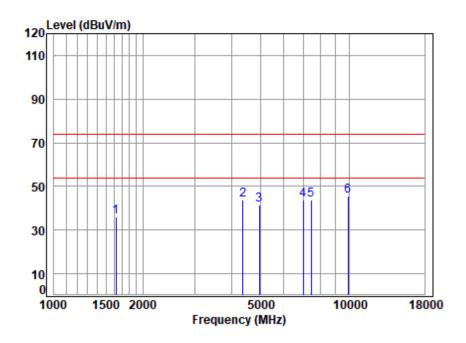


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600227602

Page: 35 of 98

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02276AT

Mode : 2480 TX RSE

: BT

		F			Preamp					Damanla	
		Freq	LOSS	Factor	Factor	revel	rever	Line	Limit	Kemark	
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1		1620.431	4.83	26.60	61.69	66.48	36.22	74.00	-37.78	peak	
2		4367.058	8.04	34.54	61.51	62.71	43.78	74.00	-30.22	peak	
3		4960.000	8.06	34.56	62.01	60.89	41.50	74.00	-32.50	peak	
4		6995.172	9.53	35.71	62.16	60.83	43.91	74.00	-30.09	peak	
5		7440.000	9.09	35.96	61.92	60.85	43.98	74.00	-30.02	peak	
6	р	9920.000	11.23	37.30	62.24	59.27	45.56	74.00	-28.44	peak	



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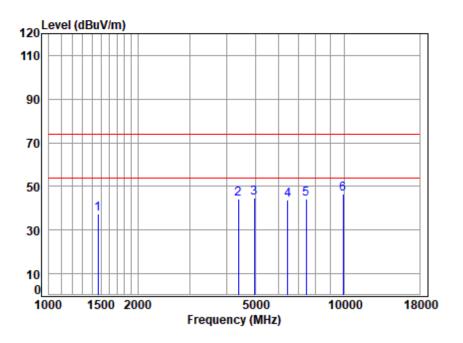


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600227602

Page: 36 of 98

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



Site : chamber

Condition: 3m VERTICAL

Job No : 02276AT

Mode : 2480 TX RSE

: BT

		Freq			Preamp Factor					Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1468.761	4.57	25.93	61.65	68.38	37.23	74.00	-36.77	peak
2		4392.376	8.00	34.74	61.53	63.01	44.22	74.00	-29.78	peak
3		4960.000	8.06	34.56	62.01	63.92	44.53	74.00	-29.47	peak
4		6432.732	9.19	35.40	62.48	61.76	43.87	74.00	-30.13	peak
5		7440.000	9.09	35.96	61.92	61.30	44.43	74.00	-29.57	peak
6	р	9920.000	11.23	37.30	62.24	60.42	46.71	74.00	-27.29	peak



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600227602

Page: 37 of 98

### 7.5 Conducted Peak Output Power

47 CFR Part 15, Subpart C 15.247(b)(1) Test Requirement Test Method: ANSI C63.10 (2013) Section 7.8.5

#### Limit:

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

#### 7.5.1 E.U.T. Operation

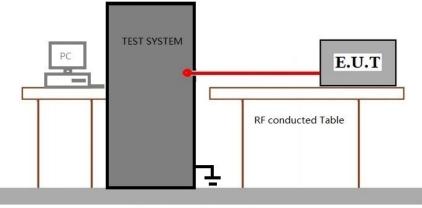
Operating Environment:

Temperature: 26.3 °C Humidity: 43.0 % RH Atmospheric Pressure: 1020 mbar

### 7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

### 7.5.3 Test Setup Diagram



Ground Reference Plane



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240600227602

> Page: 38 of 98

#### 7.5.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

Please Refer to Appendix for Details



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600227602

Page: 39 of 98

#### 7.6 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247(a)(1) Test Method: ANSI C63.10 (2013) Section 7.8.7

#### 7.6.1 E.U.T. Operation

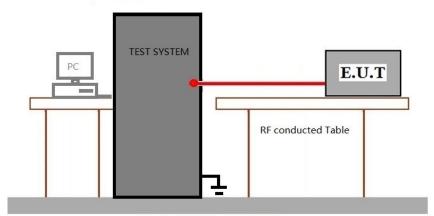
Operating Environment:

Temperature: 26.3 °C Humidity: 43.0 % RH Atmospheric Pressure: 1020 mbar

### 7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

#### 7.6.3 Test Setup Diagram



Ground Reference Plane

#### 7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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Report No.: SZCR240600227602

Page: 40 of 98

### 7.7 Carrier Frequencies Separation

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1)
Test Method: ANSI C63.10 (2013) Section 7.8.2

Limit:

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

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

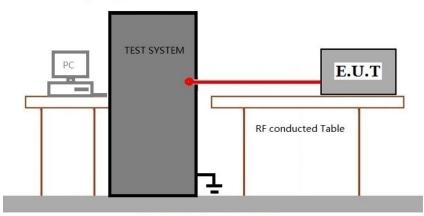
Operating Environment:

Temperature: 26.3 °C Humidity: 43.0 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX_Hop mode_Keep the EUT in frequency hopping mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

### 7.7.3 Test Setup Diagram



Ground Reference Plane

#### 7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600227602

Page: 41 of 98

### 7.8 Hopping Channel Number

Test Requirement

47 CFR Part 15, Subpart C 15.247a(1)(iii)

Test Method:

ANSI C63.10 (2013) Section 7.8.3

Limit:

Frequency range(MHz)	Number of hopping channels (minimum)		
002.029	50 for 20dB bandwidth <250kHz		
902-928	25 for 20dB bandwidth ≥250kHz		
2400-2483.5	15		
5725-5850	75		

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

Operating Environment:

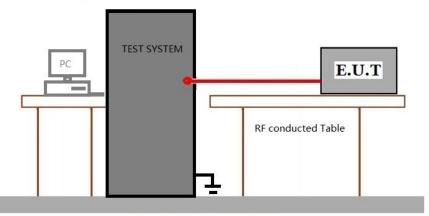
Temperature: 26.3 °C Humidity: 43.0 % RH

Atmospheric Pressure: 1020 mbar

#### 7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX_Hop mode_Keep the EUT in frequency hopping mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

#### 7.8.3 Test Setup Diagram



Ground Reference Plane

#### 7.8.4 Measurement Procedure and Data

### Please Refer to Appendix for Details



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600227602

Page: 42 of 98

#### 7.9 Dwell Time

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1)(iii)

Test Method: ANSI C63.10 (2013) Section 7.8.4

Limit:

Frequency(MHz)	Limit		
002 029	0.4S within a 20S period(20dB bandwidth<250kHz)		
902-928	0.4S within a 10S period(20dB bandwidth≥250kHz)		
0400 0400 5	0.4S within a period of 0.4S multiplied by the number		
2400-2483.5	of hopping channels		
5725-5850	0.4S within a 30S period		

#### 7.9.1 E.U.T. Operation

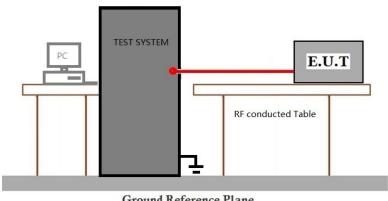
Operating Environment:

26.3 °C Temperature: Humidity: 43.0 % RH Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX_Hop mode_Keep the EUT in frequency hopping mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

### 7.9.3 Test Setup Diagram



Ground Reference Plane

### 7.9.4 Measurement Procedure and Data

#### Please Refer to Appendix for Details



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240600227602

Page: 43 of 98

### 7.10 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
Test Method: ANSI C63.10 (2013) Section 7.8.6

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).

#### 7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 26.3 °C Humidity: 43.0 % RH Atmospheric Pressure: 1020 mbar

#### 7.10.2 Test Mode Description

7.10.2 Test mode Besorption						
Pre-scan / Final test	Mode Code	Description				
Final test	00	TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.				
Final test	02	TX_Hop mode_Keep the EUT in frequency hopping mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.				



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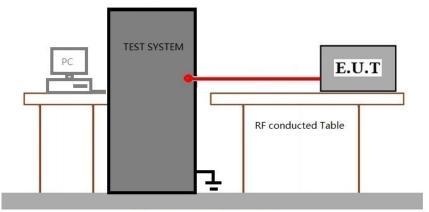


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600227602

Page: 44 of 98

### 7.10.3 Test Setup Diagram



Ground Reference Plane

### 7.10.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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Page: 45 of 98

### 7.11 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
Test Method: ANSI C63.10 (2013) Section 7.8.8

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).

#### 7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 26.3 °C Humidity: 43.0 % RH Atmospheric Pressure: 1020 mbar

#### 7.11.2 Test Mode Description

TITAL TOOL MICEO DOCCAPACIT							
Pre-scan / Final test	Mode Code	Description					
Final test	00	TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.					



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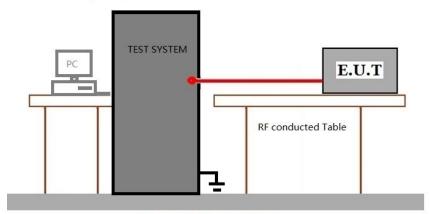


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600227602

Page: 46 of 98

### 7.11.3 Test Setup Diagram



Ground Reference Plane

#### 7.11.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240600227602

> Page: 47 of 98

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

Refer to Appendix - Test Setup Photo for SZCR2406002276AT

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

Refer to External and Internal Photos for SZCR2406002276AT



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240600227602

> Page: 48 of 98

# 10 Appendix

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

Ant1								
Mode	TX Type	Frequency (MHz)	Packet Type	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
		2402	DH5	2.893	3.749	77.17	1.13	0.03
GFSK	SISO	2441	DH5	2.894	3.751	77.15	1.13	0.03
		2480	DH5	2.894	3.750	77.17	1.13	0.03
	SISO	2402	2DH5	2.895	3.749	77.22	1.12	0.01
Pi/4DQPSK		2441	2DH5	2.896	3.751	77.21	1.12	0.03
		2480	2DH5	2.895	3.749	77.22	1.12	0.01
		2402	3DH5	2.897	3.749	77.27	1.12	0.01
8DPSK	SISO	2441	3DH5	2.897	3.750	77.25	1.12	0.03
		2480	3DH5	2.897	3.751	77.23	1.12	0.03



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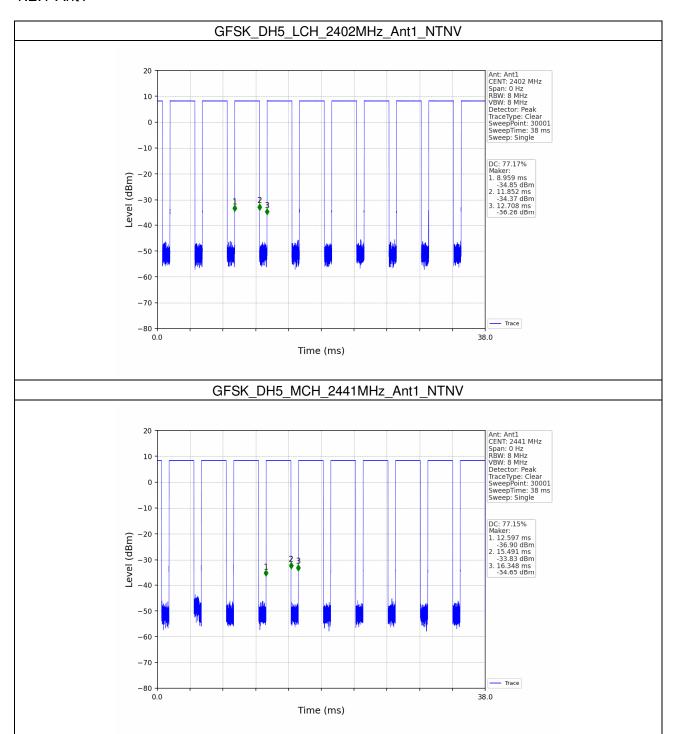
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Report No.: SZCR240600227602

Page: 49 of 98

## 1.2 Test Graph

#### 1.2.1 Ant1





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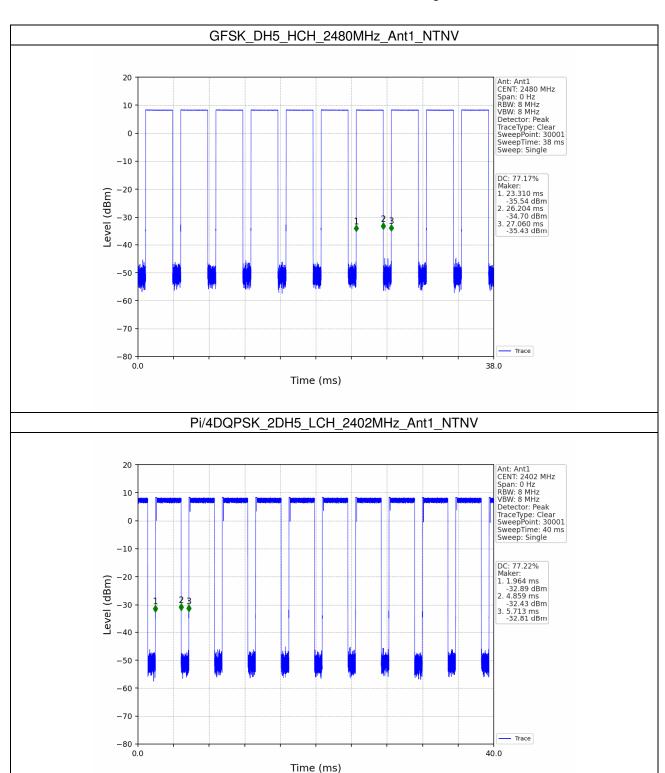
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Report No.: SZCR240600227602

Page: 50 of 98





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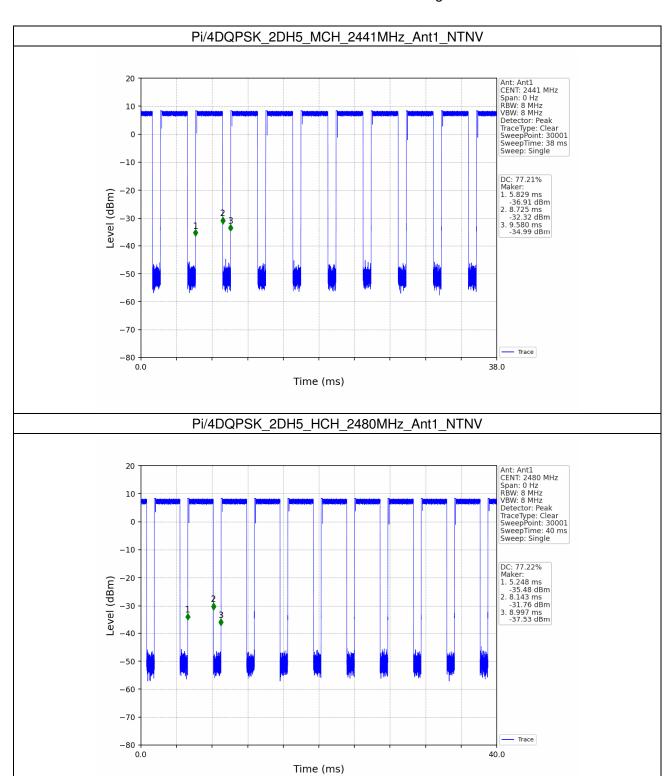
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Report No.: SZCR240600227602

Page: 51 of 98





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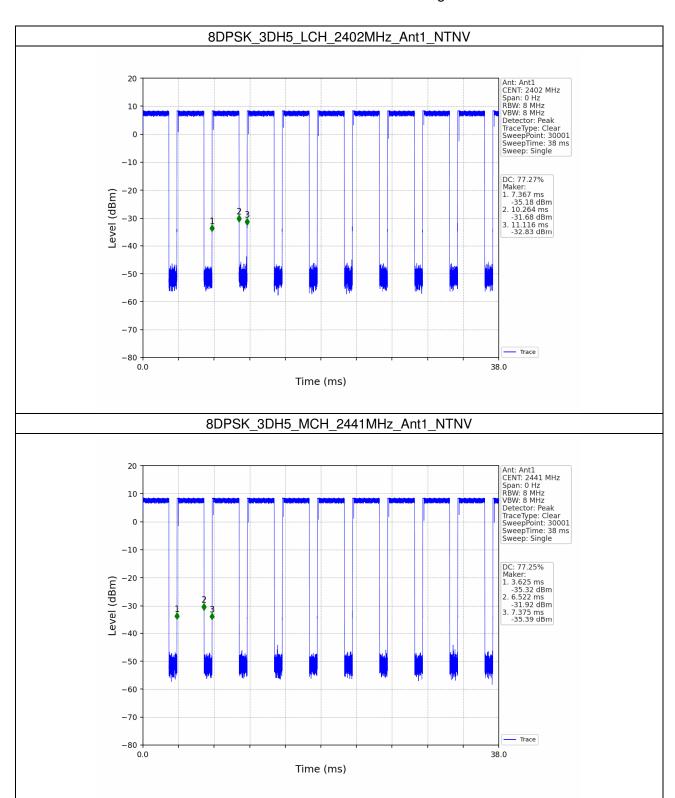
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Page: 52 of 98





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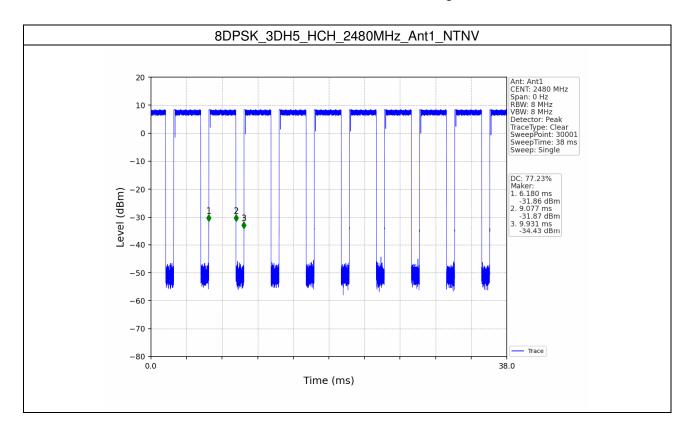
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Page: 53 of 98





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> Page: 54 of 98

### 2. Bandwidth

### 2.1 Test Result

#### 2.1.1 OBW

Mada	TX	Frequency Packet ANT		ANIT	99% Occupied E	Verdict	
Mode	Type	(MHz)	Type	AINT	Result	Limit	verdict
		2402	DH5	1	0.886	/	Pass
GFSK	SISO	2441	DH5	1	0.887	/	Pass
		2480	DH5	1	0.883	/	Pass
	SISO	2402	2DH5	1	1.161	/	Pass
Pi/4DQPSK		2441	2DH5	1	1.164	/	Pass
		2480	2DH5	1	1.157	/	Pass
		2402	3DH5	1	1.164	/	Pass
8DPSK	SISO	2441	3DH5	1	1.166	/	Pass
		2480	3DH5	1	1.168	/	Pass

#### 2.1.2 20dB BW

Mode	TX Type	Frequency	Packet Type AN	ANIT	20dB Bandy	Vardiat						
		(MHz)		ANT	Result	Limit	Verdict					
GFSK	SISO	2402	DH5	1	0.965	/	Pass					
		2441	DH5	1	1.025	/	Pass					
		2480	DH5	1	0.966	/	Pass					
Pi/4DQPSK	SISO	2402	2DH5	1	1.280	/	Pass					
		2441	2DH5	1	1.281	/	Pass					
		2480	2DH5	1	1.277	/	Pass					
8DPSK	SISO						2402	3DH5	1	1.291	/	Pass
		2441	3DH5	1	1.294	/	Pass					
		2480	3DH5	1	1.293	/	Pass					



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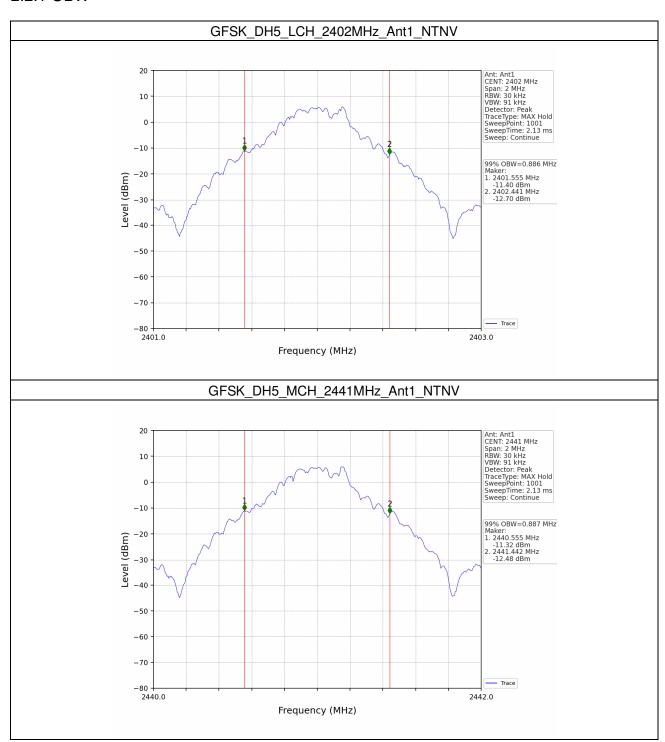
SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600227602

Page: 55 of 98

### 2.2 Test Graph

### 2.2.1 OBW





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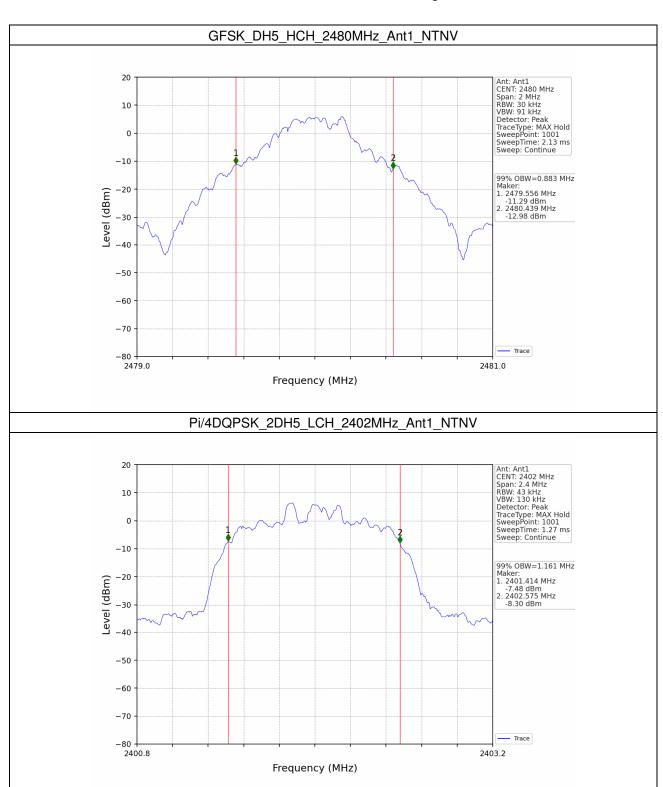
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600227602

Page: 56 of 98





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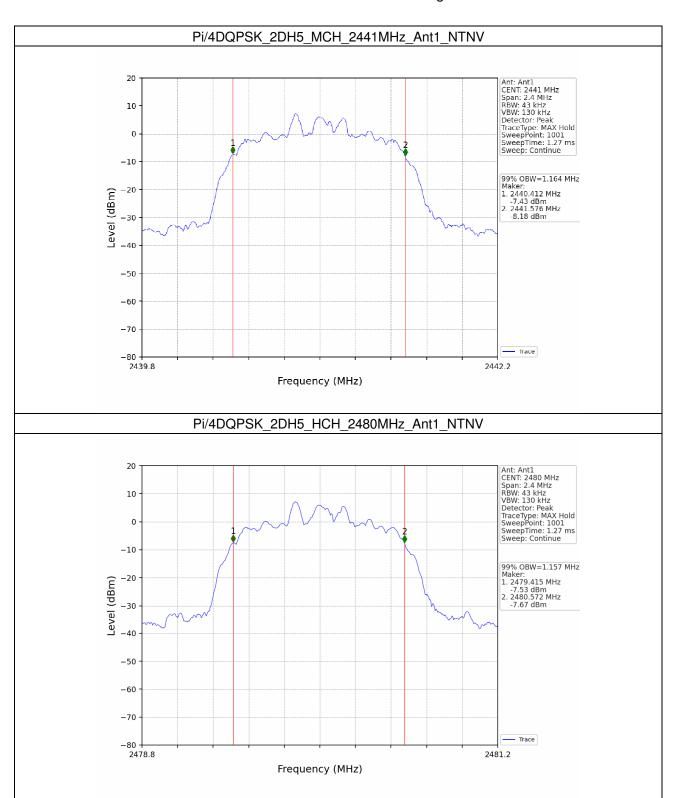
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600227602

Page: 57 of 98





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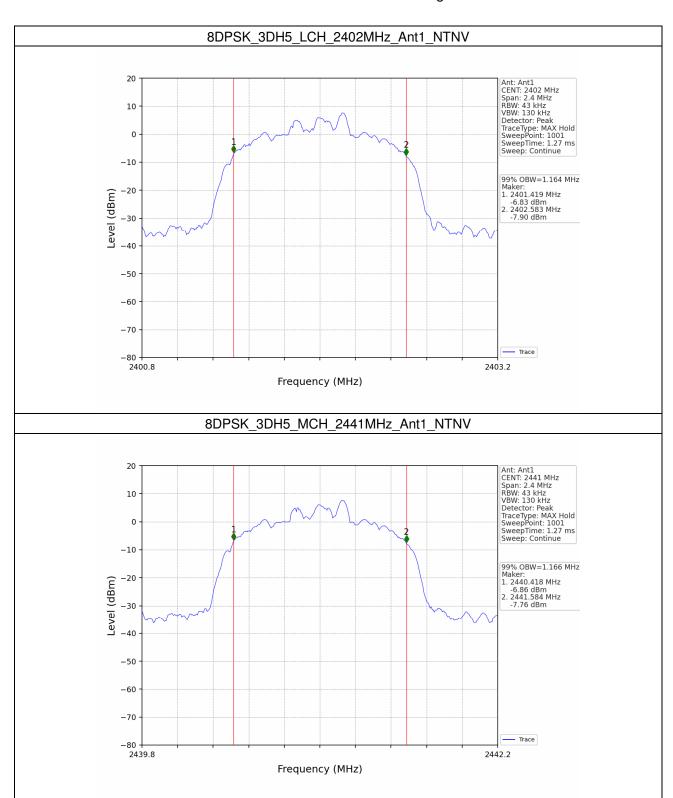
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600227602

Page: 58 of 98





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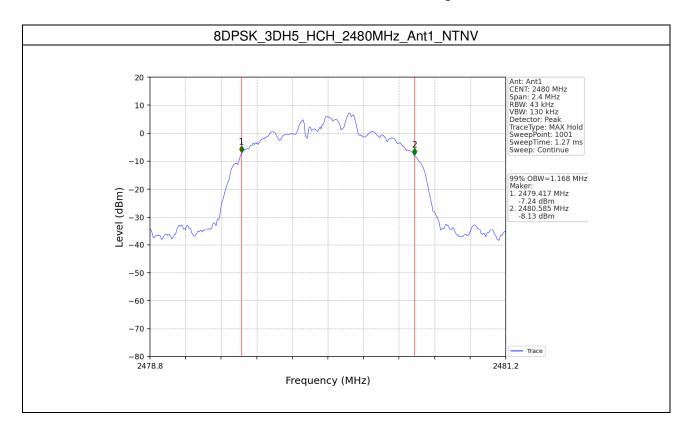
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600227602

Page: 59 of 98





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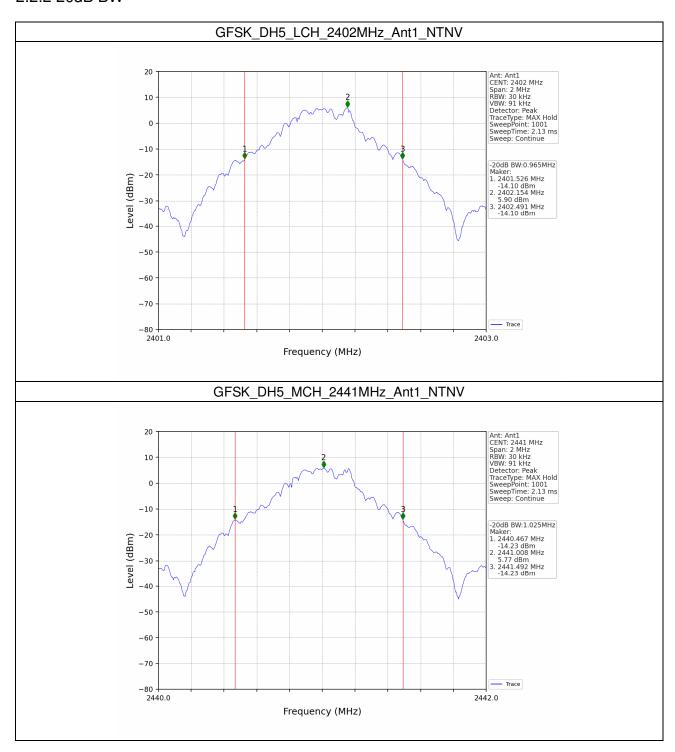


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Page: 60 of 98

#### 2.2.2 20dB BW





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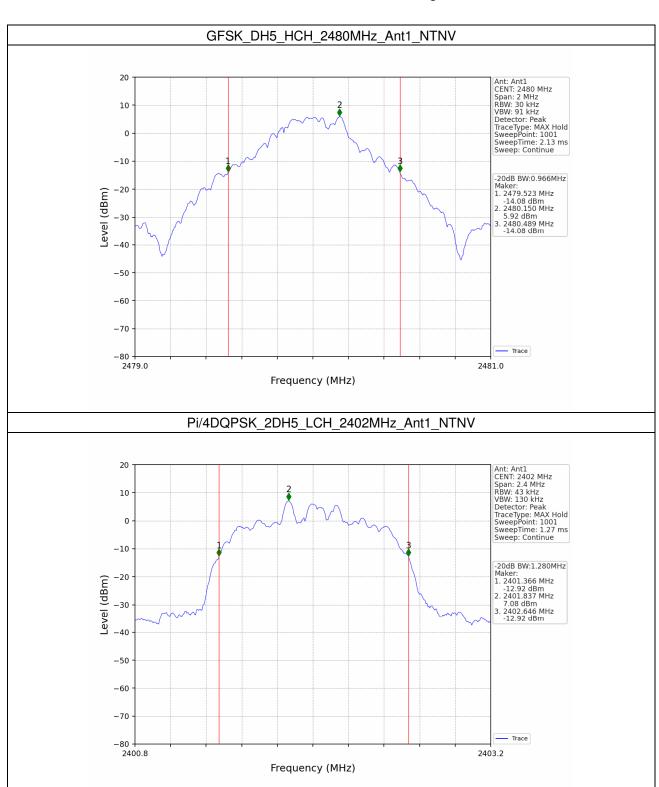
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Report No.: SZCR240600227602

Page: 61 of 98





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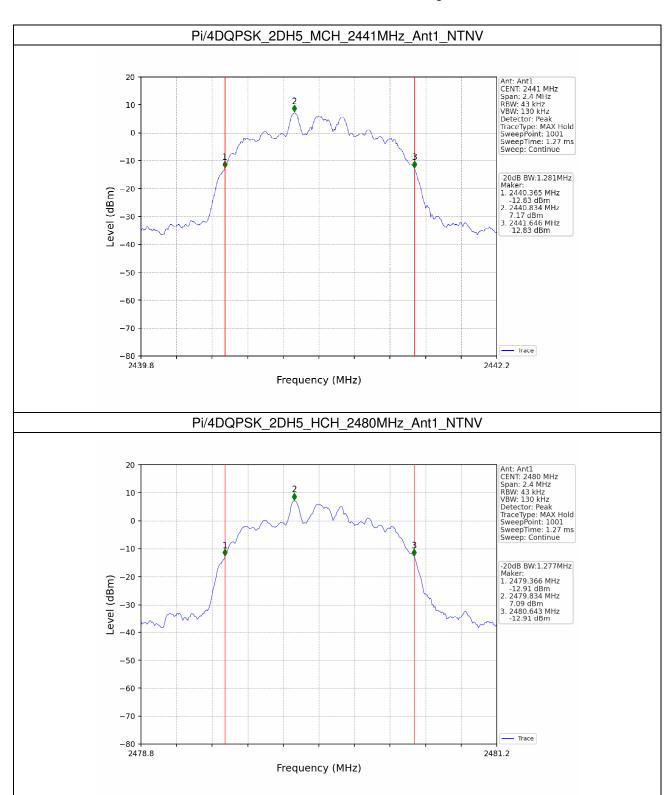
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600227602

Page: 62 of 98





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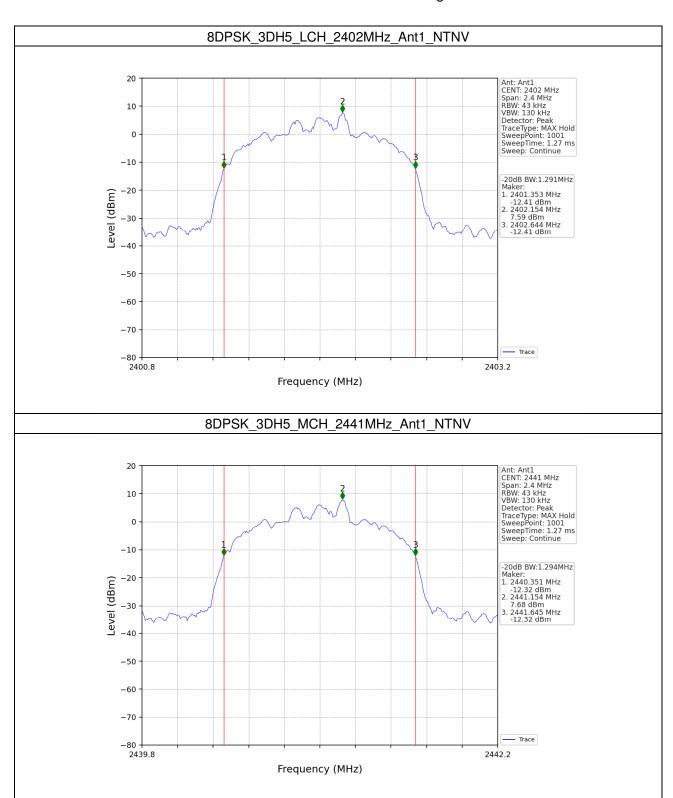
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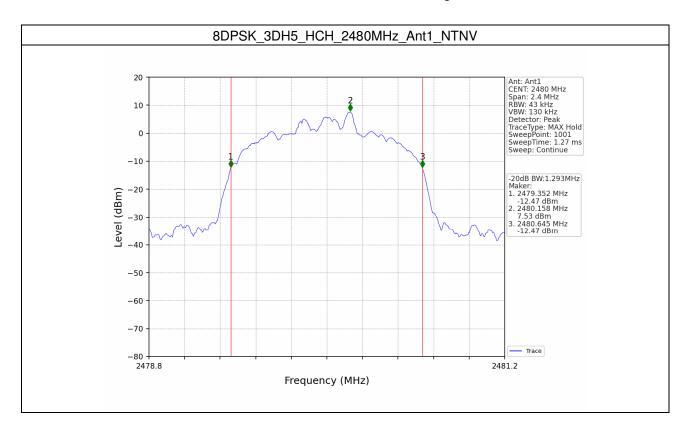
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Page: 64 of 98





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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600227602

Page: 65 of 98

# 3. Maximum Conducted Output Power

### 3.1 Test Result

### 3.1.1 Power

Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Cone (dE	Verdict	
				ANT1	Limit	
GFSK	SISO	2402	DH5	7.72	<=20.97	Pass
		2441	DH5	7.87	<=20.97	Pass
		2480	DH5	7.79	<=20.97	Pass
Pi/4DQPSK	SISO	2402	2DH5	7.79	<=20.97	Pass
		2441	2DH5	7.89	<=20.97	Pass
		2480	2DH5	7.80	<=20.97	Pass
8DPSK	SISO	2402	3DH5	7.85	<=20.97	Pass
		2441	3DH5	7.95	<=20.97	Pass
			2480	3DH5	7.88	<=20.97



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> Page: 66 of 98

# 4. Carrier Frequency Separation

### 4.1 Test Result

### 4.1.1 Ant1

Ant1										
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict			
GFSK	SISO	HOPP	DH5	1.002	1.025	>=0.683	Pass			
Pi/4DQPSK	SISO	HOPP	2DH5	1.001	1.281	>=0.854	Pass			
8DPSK	SISO	HOPP	3DH5	0.996	1.294	>=0.863	Pass			



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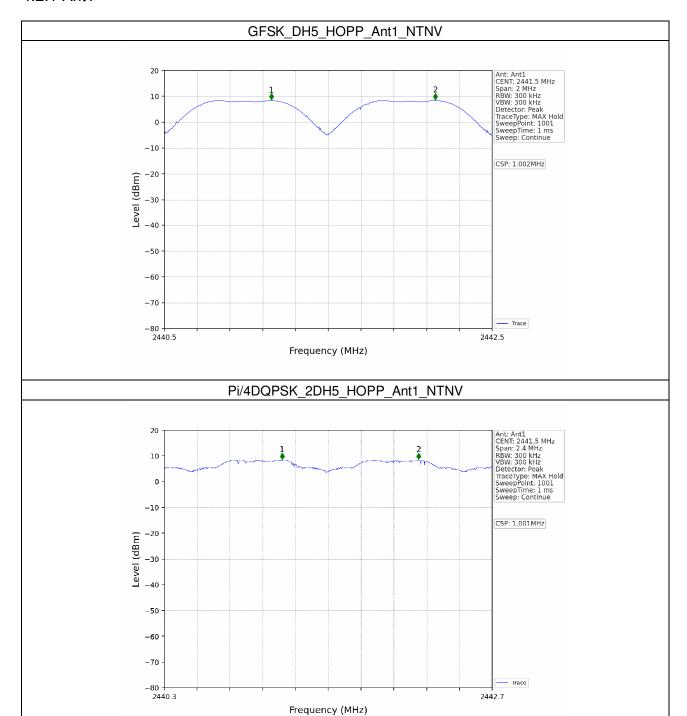
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Page: 67 of 98

## 4.2 Test Graph

### 4.2.1 Ant1





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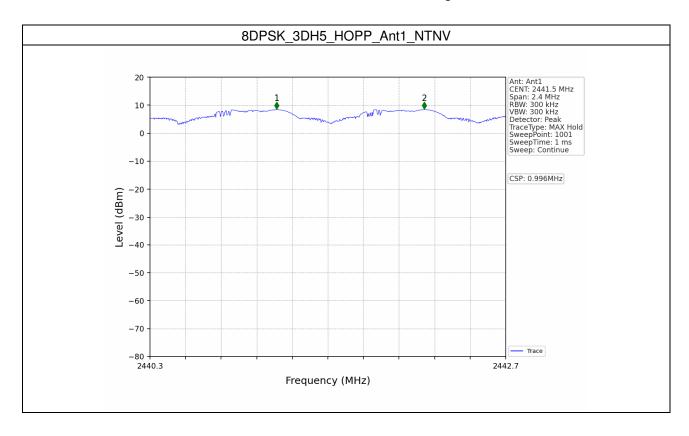
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Page: 68 of 98





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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240600227602

> Page: 69 of 98

# 5. Number of Hopping Frequencies

5.1 Test Result

### 5.1.1 HoppNum

Mode	TX	Frequency	Packet Type	Num of Hoppir	Vordiat	
	Type	(MHz)		ANT1	Limit	Verdict
GFSK	SISO	HOPP	DH5	79	>=15	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	79	>=15	Pass
8DPSK	SISO	HOPP	3DH5	79	>=15	Pass



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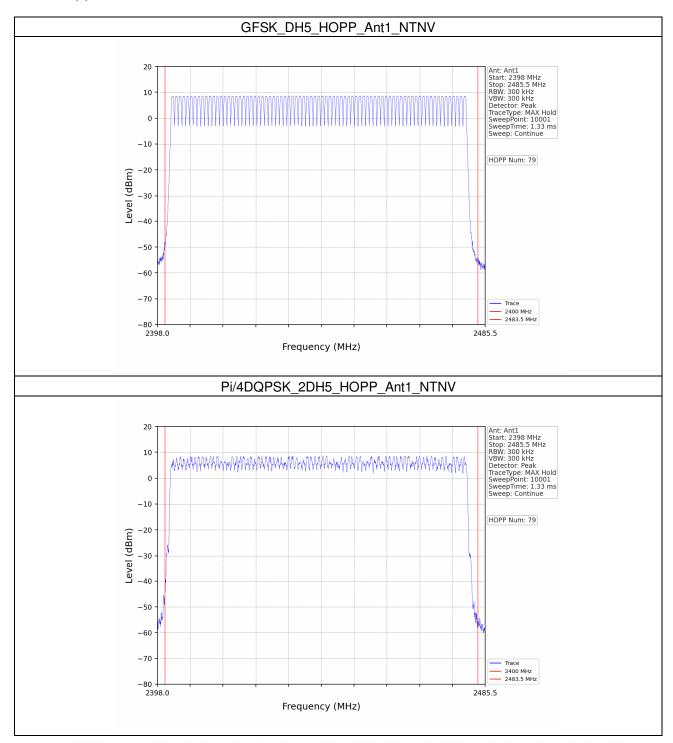
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Report No.: SZCR240600227602

Page: 70 of 98

## 5.2 Test Graph

### 5.2.1 HoppNum





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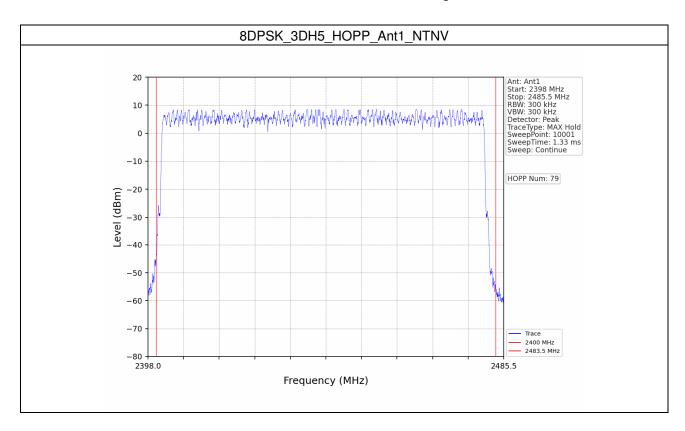
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Report No.: SZCR240600227602

Page: 71 of 98





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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240600227602

> Page: 72 of 98

## 6. Time of Occupancy (Dwell Time)

6.1 Test Result

#### 6.1.1 Ant1

Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK SIS			DH1	0.376	31.600	320	120.320	<=400	Pass
	SISO	HOPP	DH3	1.634	31.600	160	261.440	<=400	Pass
			DH5	2.882	31.600	107	308.374	<=400	Pass
Pi/4DQPSK		60 НОРР	2DH1	0.382	31.600	320	122.240	<=400	Pass
	SISO		2DH3	1.634	31.600	160	261.440	<=400	Pass
			2DH5	2.880	31.600	106	305.280	<=400	Pass
8DPSK		HOPP	3DH1	0.376	31.600	320	120.320	<=400	Pass
	SISO		3DH3	1.634	31.600	160	261.440	<=400	Pass
			3DH5	2.884	31.600	106	305.704	<=400	Pass



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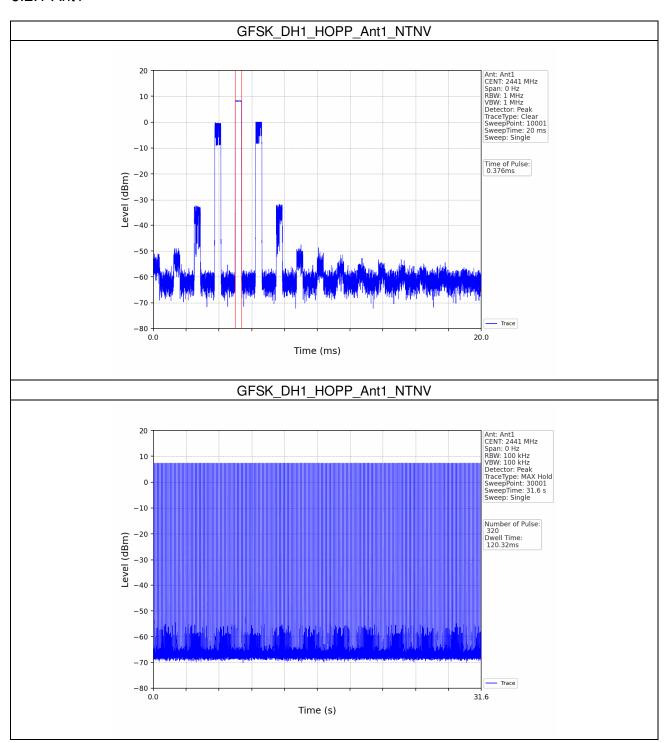
SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600227602

Page: 73 of 98

#### 6.2 Test Graph

#### 6.2.1 Ant1





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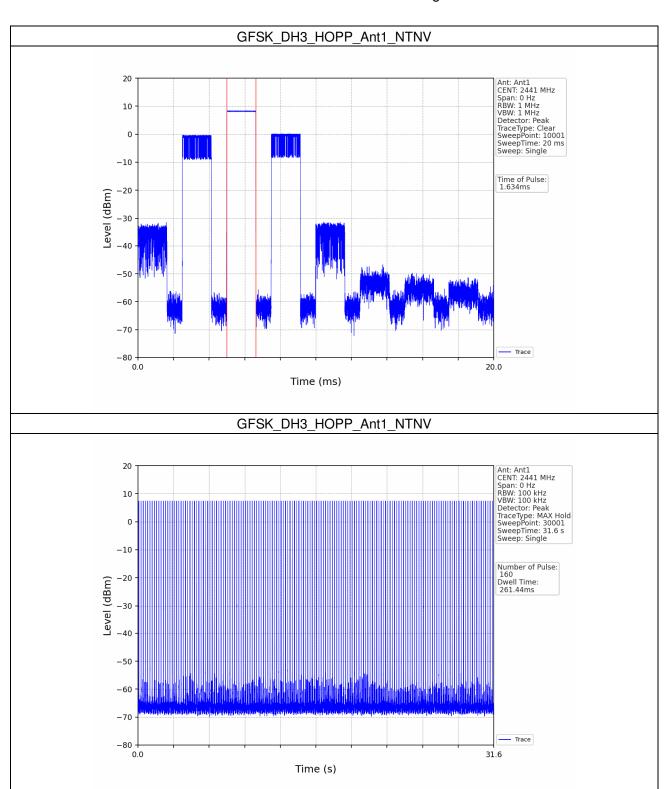
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Report No.: SZCR240600227602

Page: 74 of 98





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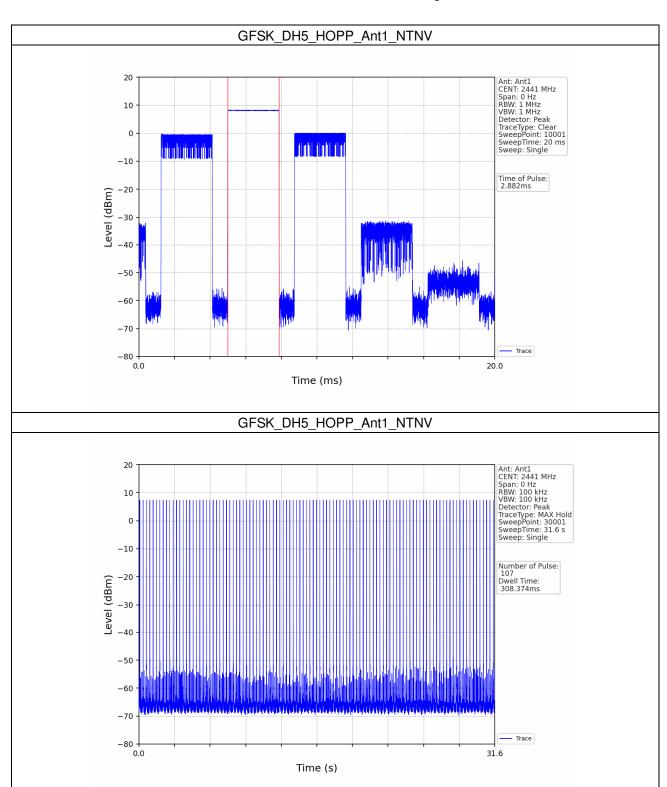
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600227602

Page: 75 of 98





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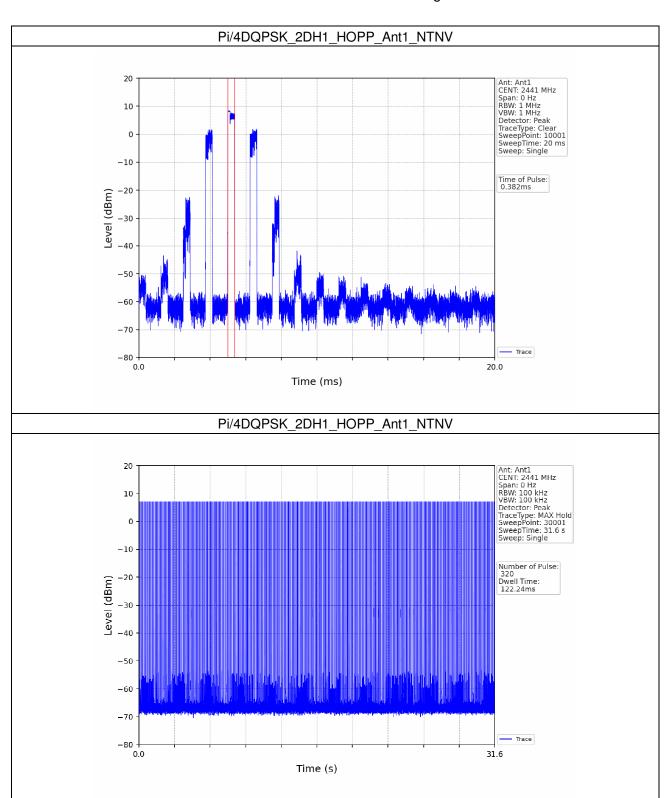
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600227602

Page: 76 of 98





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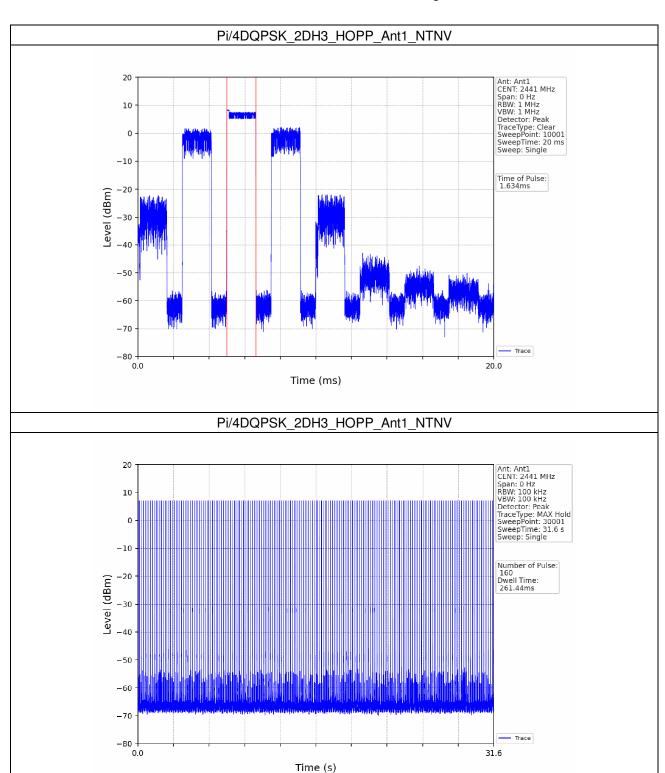
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Report No.: SZCR240600227602

Page: 77 of 98





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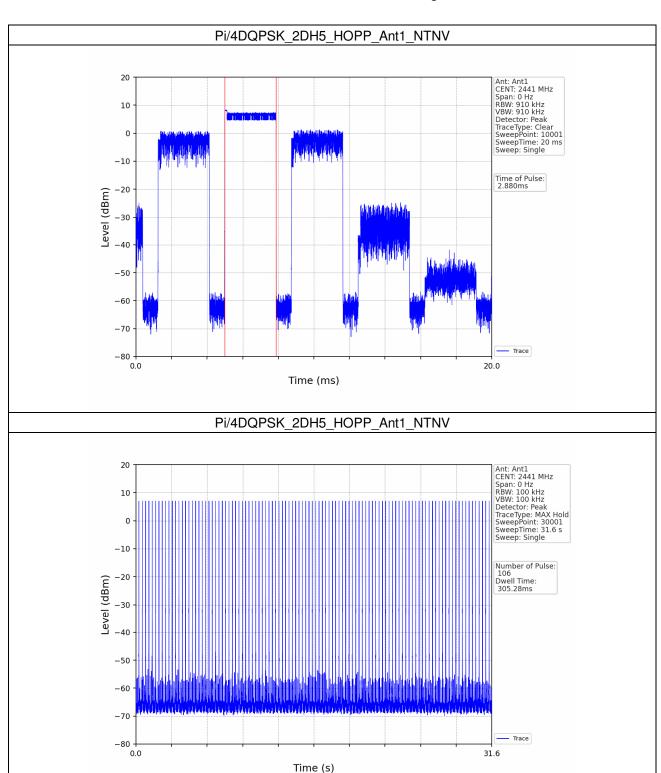
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600227602

Page: 78 of 98





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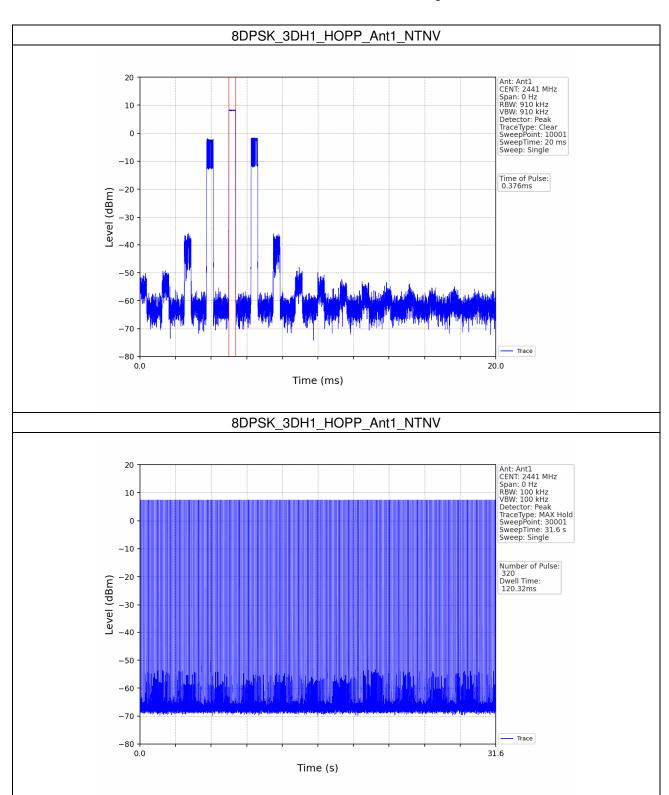
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600227602

Page: 79 of 98





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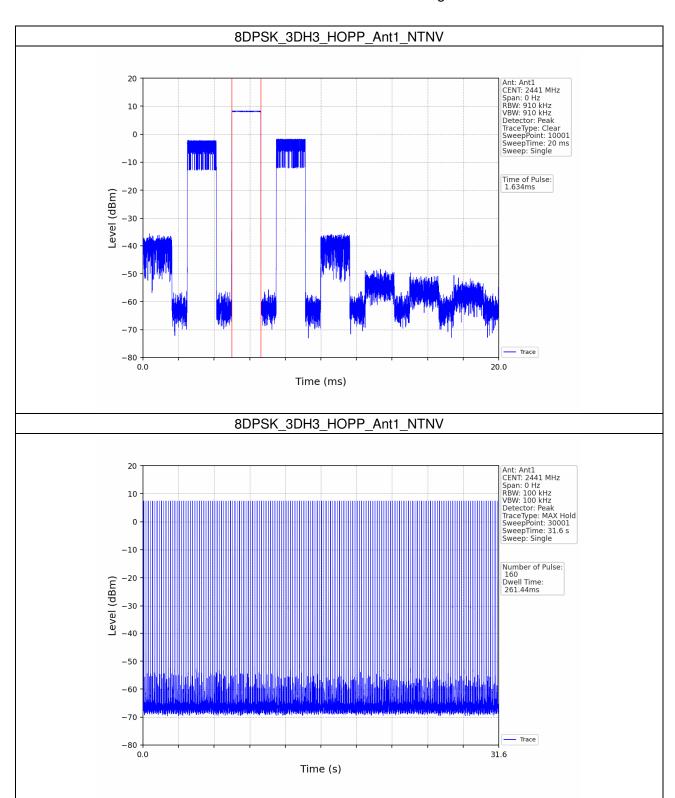
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600227602

Page: 80 of 98





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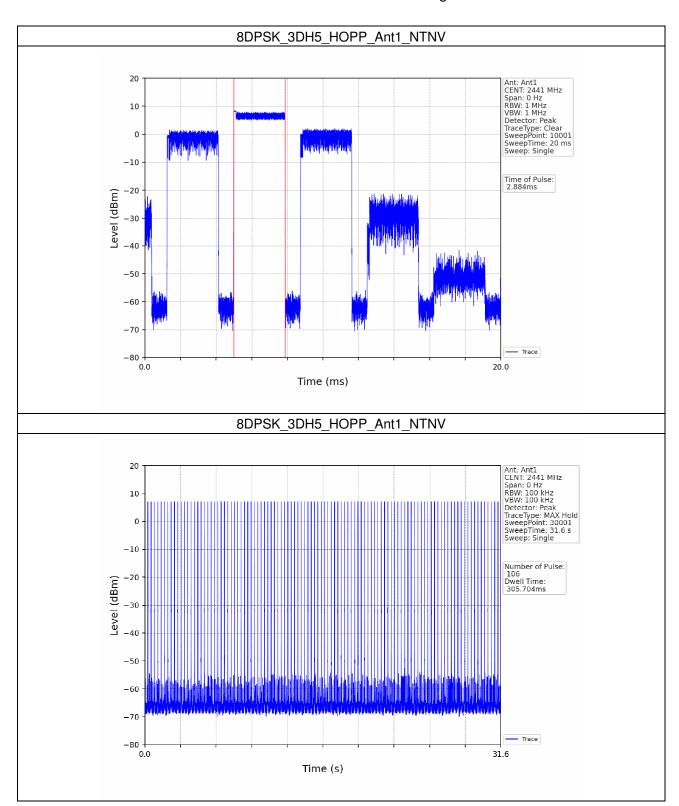
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Page: 81 of 98





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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600227602

Page: 82 of 98

### 7. Unwanted Emissions In Non-restricted Frequency Bands

#### 7.1 Test Result

#### 7.1.1 Ref

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	
GFSK	SISO	2402	DH5	1	8.10	
		2441	DH5	1	8.21	
		2480	DH5	1	8.12	
Pi/4DQPSK	SISO	2402	2DH5	1	8.13	
		2441	2DH5	1	8.21	
		2480	2DH5	1	8.15	
8DPSK	SISO	2402	3DH5	1	7.97	
		2441	3DH5	1	8.20	
		2480	3DH5	1	8.15	

#### 7.1.2 CSE

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	8.21	-11.79	Pass
		2441	DH5	1	8.21	-11.79	Pass
		2480	DH5	1	8.21	-11.79	Pass
		HOPP	DH5	1	8.21	-11.79	Pass
					8.21	-11.79	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	8.21	-11.79	Pass
		2441	2DH5	1	8.21	-11.79	Pass
		2480	2DH5	1	8.21	-11.79	Pass
		HOPP	2DH5	1	8.21	-11.79	Pass
					8.21	-11.79	Pass
8DPSK	SISO	2402	3DH5	1	8.20	-11.80	Pass
		2441	3DH5	1	8.20	-11.80	Pass
		2480	3DH5	1	8.20	-11.80	Pass
		НОРР	3DH5	1	8.20	-11.80	Pass
					8.20	-11.80	Pass



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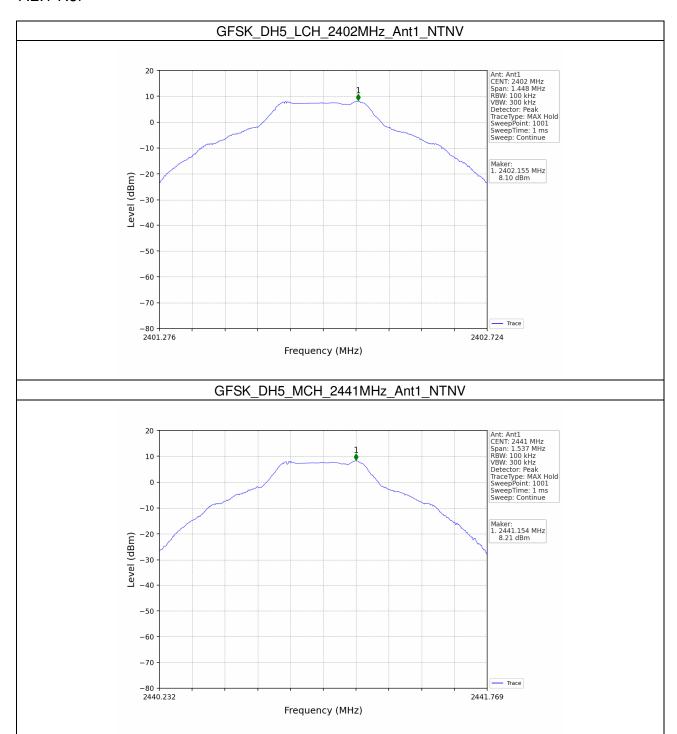
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Report No.: SZCR240600227602

Page: 83 of 98

#### 7.2 Test Graph

#### 7.2.1 Ref





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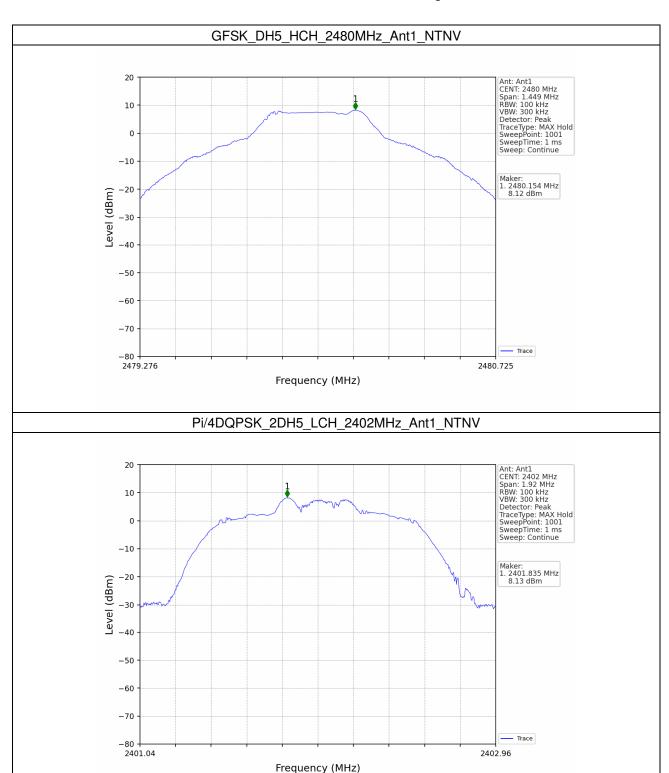
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Report No.: SZCR240600227602

Page: 84 of 98





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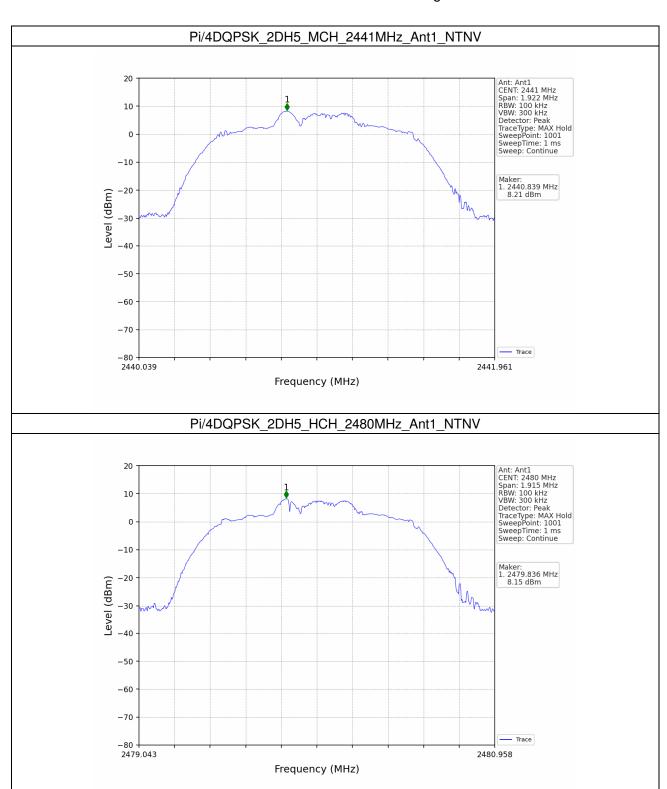
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Report No.: SZCR240600227602

Page: 85 of 98





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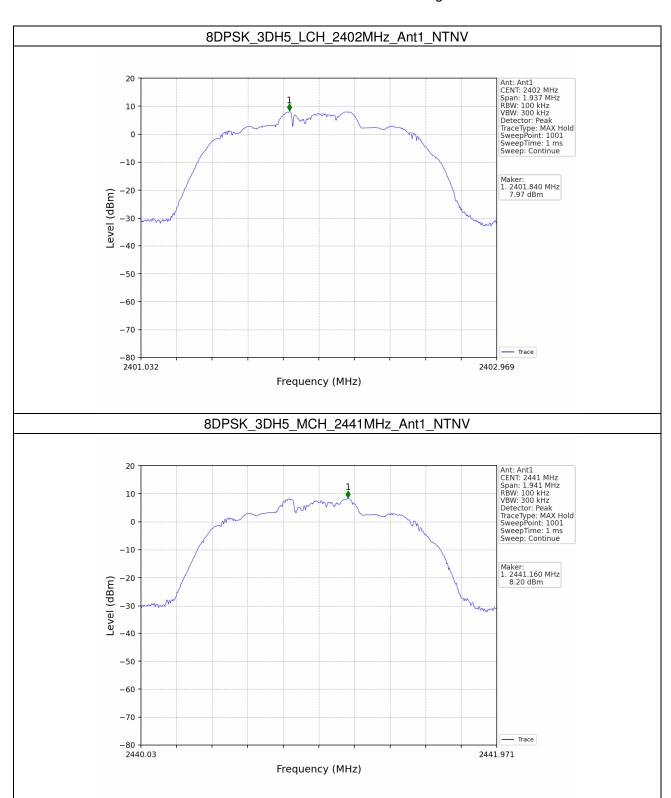
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600227602

Page: 86 of 98





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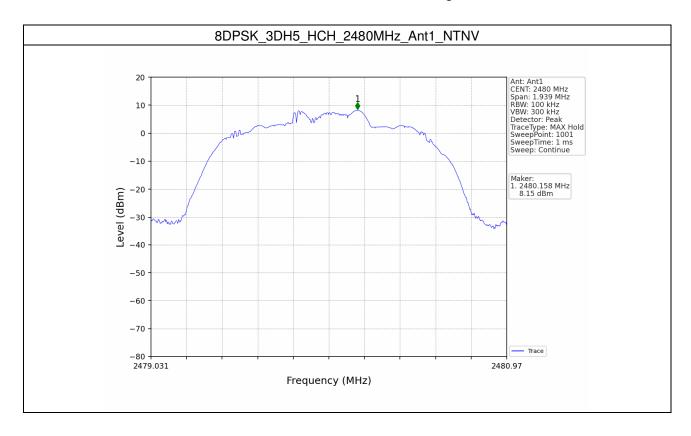
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600227602

Page: 87 of 98





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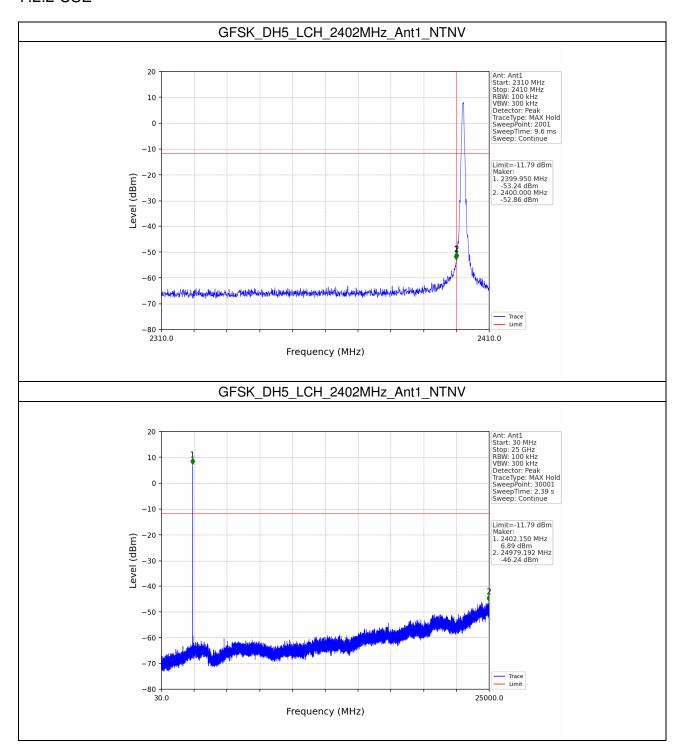


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600227602

Page: 88 of 98

#### 7.2.2 CSE





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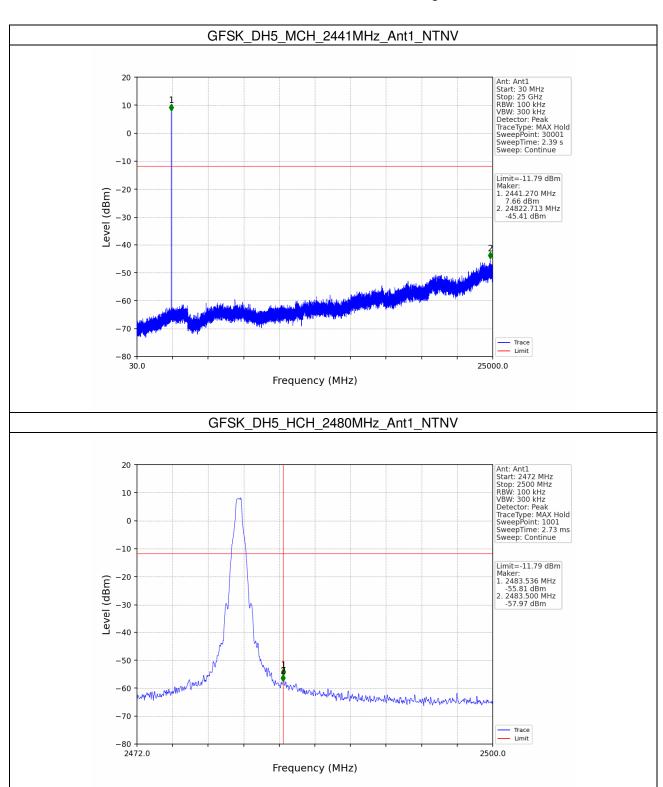
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600227602

Page: 89 of 98





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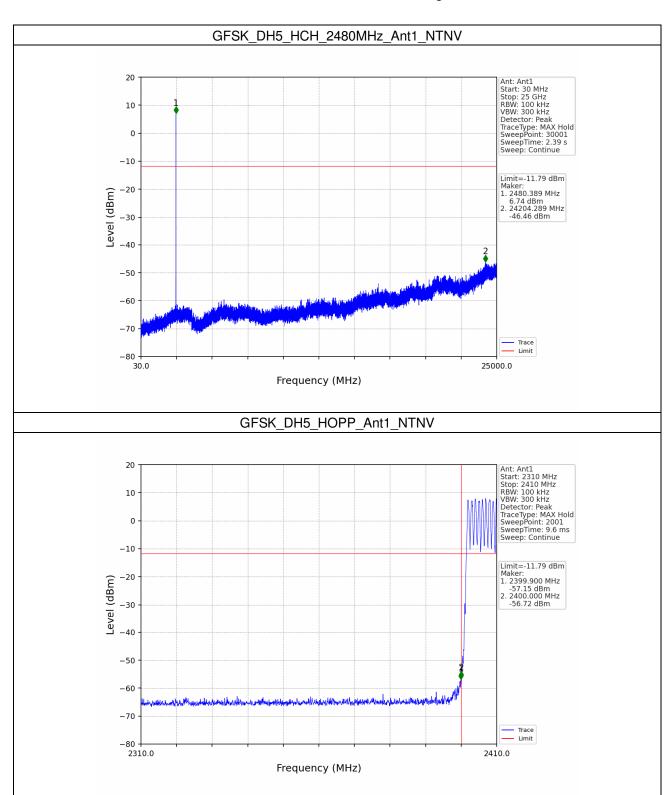
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600227602

Page: 90 of 98





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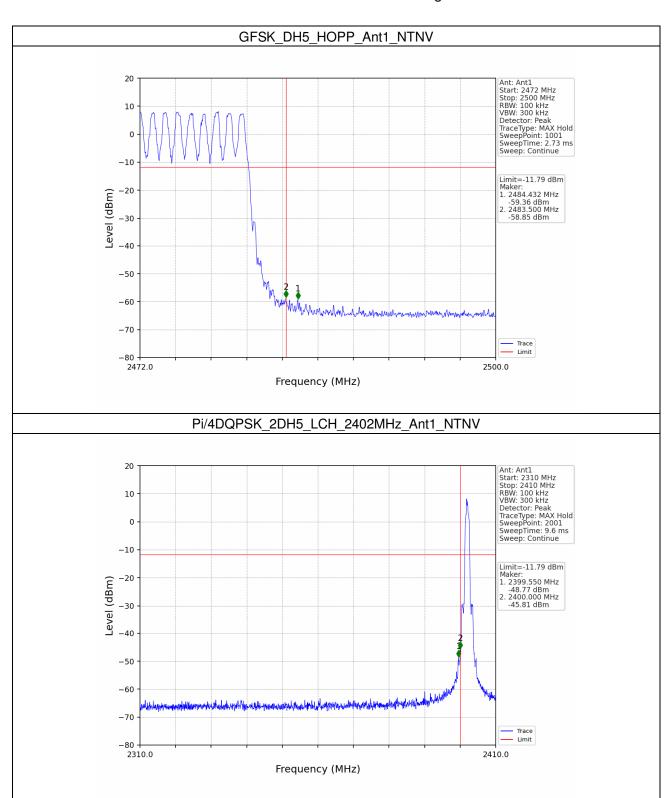
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600227602

Page: 91 of 98





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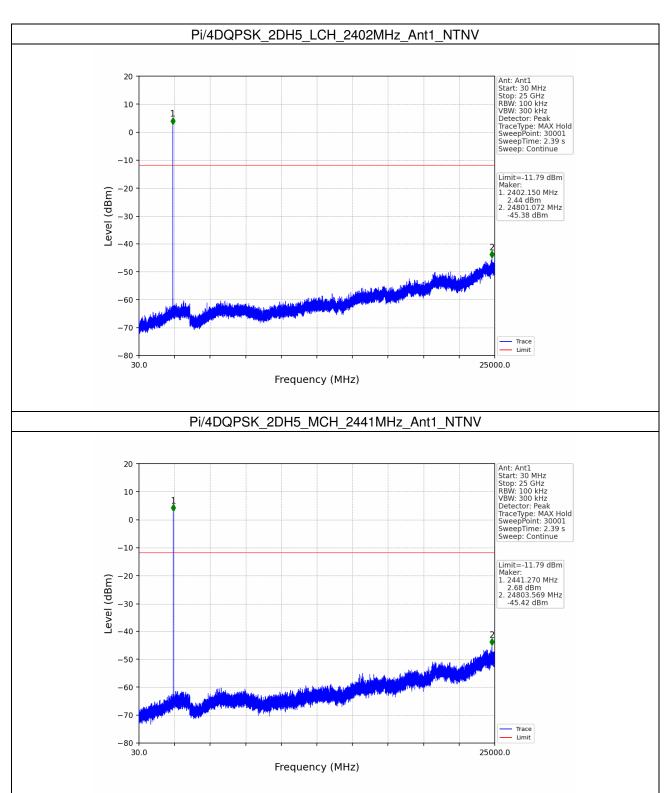
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600227602

Page: 92 of 98





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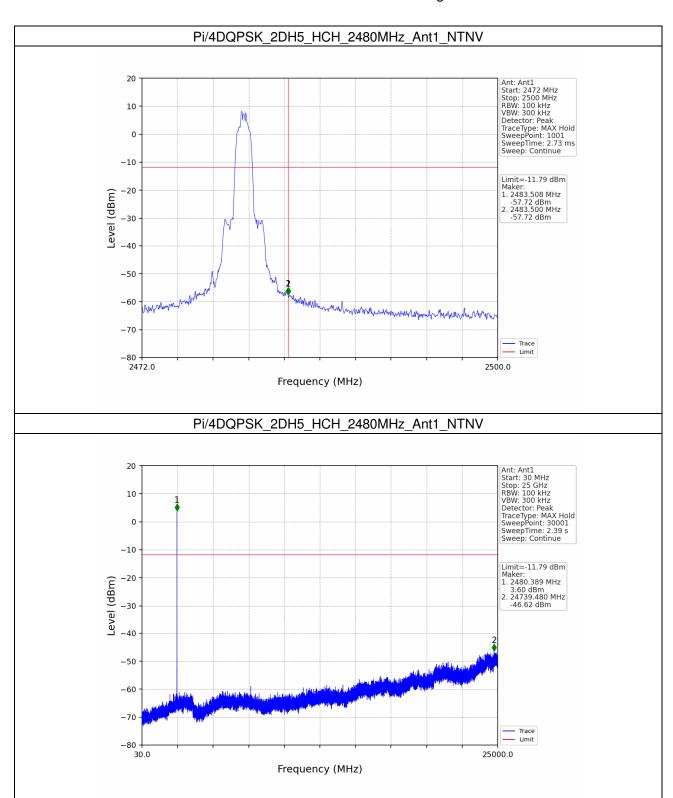
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600227602

Page: 93 of 98





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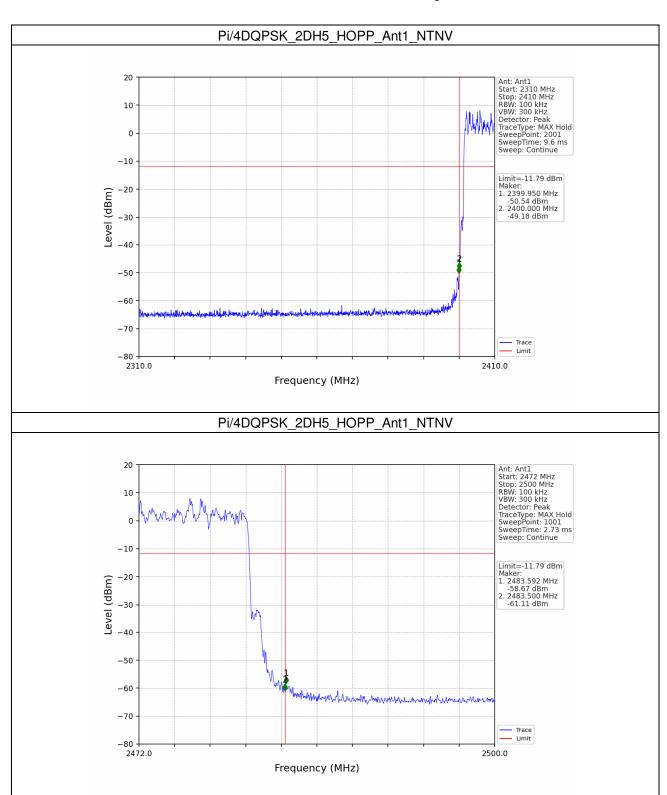
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600227602

Page: 94 of 98





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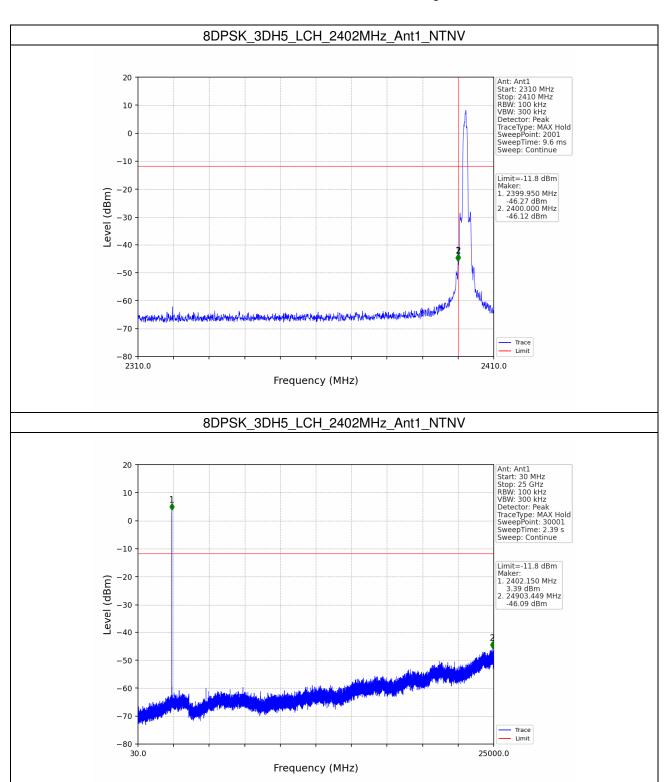
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600227602

Page: 95 of 98





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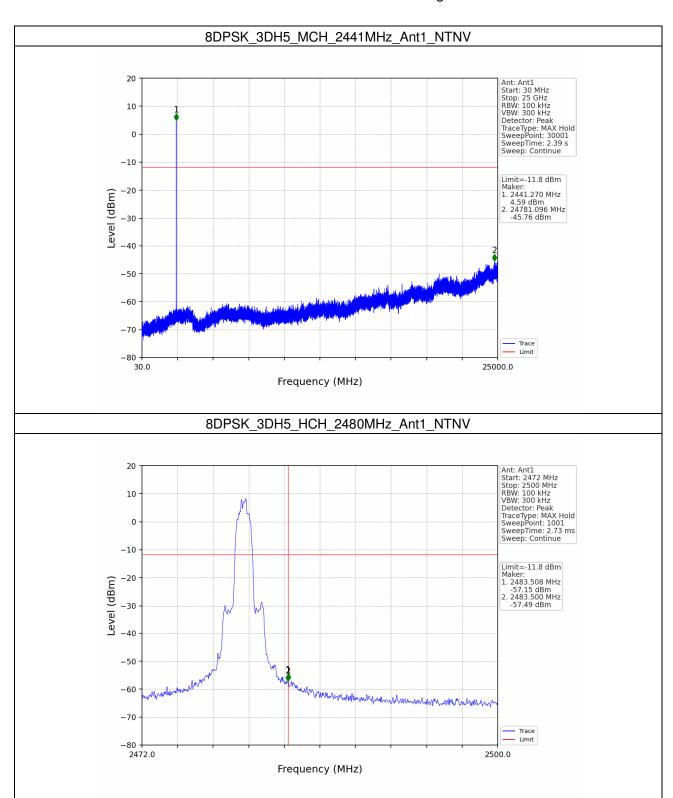
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Report No.: SZCR240600227602

Page: 96 of 98





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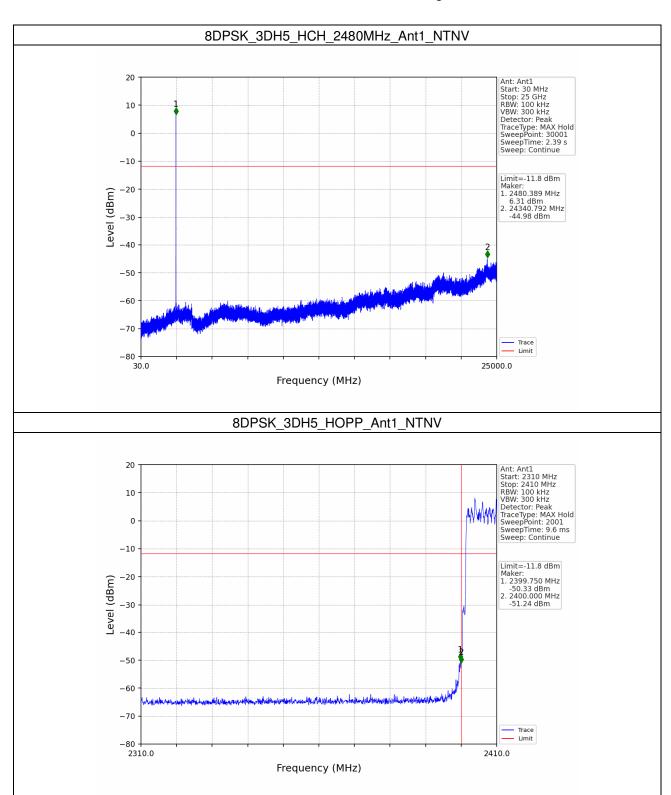
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Report No.: SZCR240600227602

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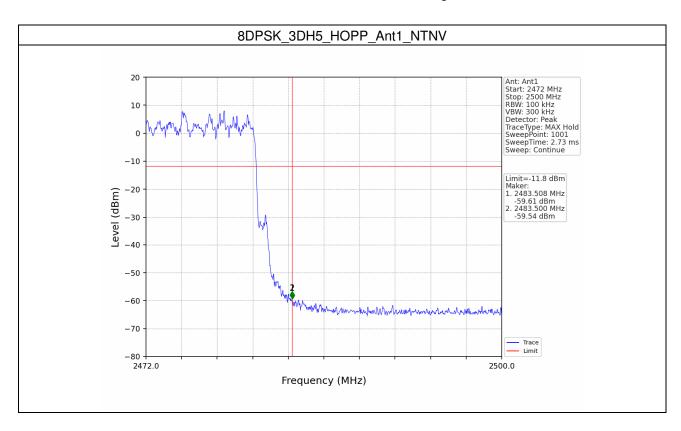
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Report No.: SZCR240600227602

Page: 98 of 98



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