

Report No.: SZEM210100004802

Page: 1 of 73

TEST REPORT

Application No.: SZEM2101000048CR

Applicant: Zhongshan Xiaolan Town Senlan Electronic Factory

Address of Applicant: 4/F, Plant 3, Chenjian Industrial Village, No.39 East Juchen Road, Xiaolan

Town, Zhongshan City, Guangdong Province, P.R.China

Manufacturer: Zhongshan Xiaolan Town Senlan Electronic Factory

Address of Manufacturer: 4/F, Plant 3, Chenjian Industrial Village, No.39 East Juchen Road, Xiaolan

Town, Zhongshan City, Guangdong Province, P.R.China

Factory: Zhongshan Xiaolan Town Senlan Electronic Factory

Address of Factory: 4/F, Plant 3, Chenjian Industrial Village, No.39 East Juchen Road, Xiaolan

Town, Zhongshan City, Guangdong Province, P.R.China

Equipment Under Test (EUT):

EUT Name: Hearing aid Model No.: A-360

FCC ID: 2AYL3SL22831063

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

Date of Receipt: 2021-01-04

Date of Test: 2021-01-08 to 2021-02-04

Date of Issue: 2021-02-08

Test Result: Pass*

Keny Xu EMC Laboratory Manager



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



Report No.: SZEM210100004802

2 of 73 Page:

	Revision Record						
Version	Chapter	Date	Modifier	Remark			
01		2021-02-08		Original			

Authorized for issue by:		
	Damon Su	
	Damon Su/Project Engineer	-
	EvicFu	
	Eric Fu/Reviewer	-



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Report No.: SZEM210100004802

3 of 73 Page:

Test Summary

Radio Spectrum Technical Requirement						
Item	Standard	Method	Requirement	Result		
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass		
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 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	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.7	47 CFR Part 15, Subpart C 15.247(a)(1)	Pass	
Carrier Frequencies Separation	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.2	47 CFR Part 15, Subpart C 15.247a(1)	Pass	
Hopping Channel Number	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.3	47 CFR Part 15, Subpart C 15.247a(1)(iii)	Pass	
Dwell Time	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.4	47 CFR Part 15, Subpart C 15.247a(1)(iii)	Pass	
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.6	47 CFR Part 15, Subpart C 15.247(d)	Pass	
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.8	47 CFR Part 15, Subpart C 15.247(d)	Pass	
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass	
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass	

Emission Part						
Item	Standard	Method	Requirement	Result		
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	N/A		

Remark: EUT is not able to operate when being charged.



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Report No.: SZEM210100004802

4 of 73 Page:

Contents

			ige
1	COV	/ER PAGE	1
2	TES	T SUMMARY	3
3	CON	ITENTS	4
4	GEN	IERAL INFORMATION	6
	4.1	DETAILS OF E.U.T.	6
	4.2	DESCRIPTION OF SUPPORT UNITS	6
	4.3	MEASUREMENT UNCERTAINTY	
	4.4	TEST LOCATION.	
	4.5	TEST FACILITY	
	4.6	DEVIATION FROM STANDARDS	
	4.7	ABNORMALITIES FROM STANDARD CONDITIONS	
5	EQU	JIPMENT LIST	8
_			
6	RAD	DIO SPECTRUM TECHNICAL REQUIREMENT	
	6.1	ANTENNA REQUIREMENT	
	6.1.	1 Test Requirement:	11
7	RAD	DIO SPECTRUM MATTER TEST RESULTS	12
	7.1	CONDUCTED PEAK OUTPUT POWER	12
	7.1.		
	7.1.2		
	7.1.3	3 Test Setup Diagram	13
	7.1.4		
	7.2	20DB BANDWIDTH	
	7.2.	,	
	7.2.2 7.2.3	·	
	7.2.4		
	7.3	CARRIER FREQUENCIES SEPARATION.	
	7.3.	1 E.U.T. Operation	15
	7.3.2	•	
	7.3.3		
	7.3.4		
	7.4	HOPPING CHANNEL NUMBER	
	7.4. ⁻ 7.4. ²	r	
	7.4.2	•	
	7.4.4	, 5	
	7.5	DWELL TIME	
	7.5.	1 E.U.T. Operation	18
	7.5.2	·	
	7.5.3	3 Test Setup Diagram	19



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Report No.: SZEM210100004802

5 of 73 Page:

7.5.4	Measurement Procedure and Data	19
7.6	CONDUCTED BAND EDGES MEASUREMENT	20
7.6.1	E.U.T. Operation	20
7.6.2	Test Mode Description	
7.6.3	Test Setup Diagram	2
7.6.4	Measurement Procedure and Data	2
7.7	CONDUCTED SPURIOUS EMISSIONS	22
7.7.1	E.U.T. Operation	22
7.7.2	Test Mode Description	
7.7.3	Test Setup Diagram	23
7.7.4	Measurement Procedure and Data	23
7.8 F	RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS	24
7.8.1	E.U.T. Operation	24
7.8.2	Test Mode Description	
7.8.3	Test Setup Diagram	
7.8.4	Measurement Procedure and Data	25
7.9 F	RADIATED SPURIOUS EMISSIONS	30
7.9.1	E.U.T. Operation	30
7.9.2	Test Mode Description	30
7.9.3	Test Setup Diagram	3
7.9.4	Measurement Procedure and Data	32
8 TEST	SETUP PHOTO	41
9 EUT (CONSTRUCTIONAL DETAILS (EUT PHOTOS)	41
10 APPE	NDIX	42



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Report No.: SZEM210100004802

Page: 6 of 73

4 General Information

4.1 Details of E.U.T.

Power supply:	DC 3.7V by lithium battery.
Operation Frequency:	2402MHz to 2480MHz
Modulation Type:	GFSK, pi/4DQPSK
Number of Channels:	79
Channel Spacing:	1MHz
Spectrum Spread Technology:	Frequency Hopping Spread Spectrum(FHSS)
Antenna Type:	Ceramic Antenna
Antenna Gain:	2.0dBi

4.2 Description of Support Units

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

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Peak Output Power	± 0.75dB
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
Radiated Emissions which fall in the restricted bands	± 4.5dB (Below 1GHz);± 4.8dB (Above 1GHz)
Radiated Spurious Emissions	± 4.5dB (Below 1GHz);± 4.8dB (Above 1GHz)



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Report No.: SZEM210100004802

Page: 7 of 73

4.4 Test Location

All tests were performed at:

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

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

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

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. 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: CN1178

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

Designation Number: CN1178. Test Firm Registration Number: 406779.

• 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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Report No.: SZEM210100004802

Page: 8 of 73

5 Equipment List

Conducted Peak Output Power						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12	
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2020-04-01	2021-03-31	
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2020-05-21	2021-05-20	

20dB Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2020-04-01	2021-03-31
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2020-05-21	2021-05-20

Carrier Frequencies Separation					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2020-04-01	2021-03-31
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2020-05-21	2021-05-20

Hopping Channel Number					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2020-04-01	2021-03-31
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2020-05-21	2021-05-20



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9 of 73 Page:

Dwell Time					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2020-04-01	2021-03-31
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2020-05-21	2021-05-20

Conducted Band Edges Measurement					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2020-04-01	2021-03-31
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2020-05-21	2021-05-20

Conducted Spurious Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2020-04-01	2021-03-31
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2020-05-21	2021-05-20

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
EXA Signal Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2020-09-23	2021-09-22



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10 of 73 Page:

Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09
Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2020-11-14	2023-11-13
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020-04-01	2021-03-31

Radiated Spurious Emis	Radiated Spurious Emissions				
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020-07-19	2023-07-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2020-11-02	2021-11-01
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-02	2019-05-24	2022-05-23
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2020-04-01	2021-03-31
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2020-07-10	2021-07-09
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
EXA Signal Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2020-09-23	2021-09-22
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09
Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2020-11-14	2023-11-13
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020-04-01	2021-03-31

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2020-09-15	2021-09-14
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2020-09-15	2021-09-14
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2020-04-07	2021-04-06



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Report No.: SZEM210100004802

Page: 11 of 73

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)

Limit:

Standard Requirement:

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

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 2.0dBi.

Antenna location: Refer to Internal photos.



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Page: 12 of 73

Radio Spectrum Matter Test Results 7

7.1 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

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1010 mbar

7.1.2 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. All modes have been tested and only the data of worst case is recorded in the report.		



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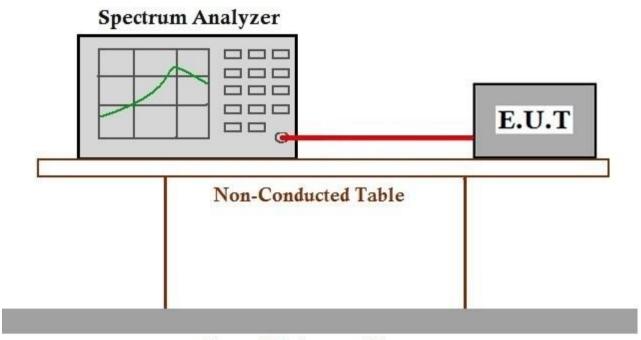
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Page: 13 of 73

7.1.3 Test Setup Diagram



Ground Reference Plane

7.1.4 Measurement Procedure and Data

Please Refer To Appendix For Details



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Page: 14 of 73

7.2 20dB Bandwidth

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

7.2.1 E.U.T. Operation

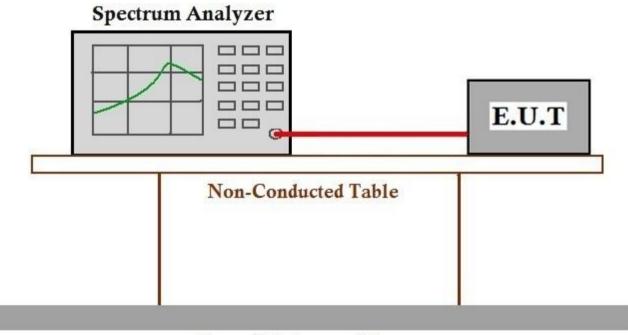
Operating Environment:

Temperature: 23.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1010 mbar

7.2.2 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. All modes have been tested and only the data of worst case is recorded in the report.

7.2.3 Test Setup Diagram



Ground Reference Plane

7.2.4 Measurement Procedure and Data

Please Refer To Appendix For Details



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Report No.: SZEM210100004802

Page: 15 of 73

7.3 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:

2/3 of the 20dB bandwidth base on the transmission power is less than 0.125W.

7.3.1 E.U.T. Operation

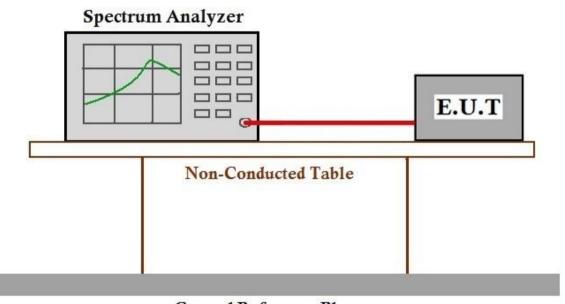
Operating Environment:

Temperature: 23.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1010 mbar

7.3.2 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. All modes have been tested and only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



Ground Reference Plane

7.3.4 Measurement Procedure and Data

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Page: 16 of 73

7.4 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)
002.028	50 for 20dB bandwidth <250kHz
902-928	25 for 20dB bandwidth ≥250kHz
2400-2483.5	15
5725-5850	75

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

1.4.2 Test mode besomption							
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. All modes have been tested and only the data of worst case is recorded in the report.					



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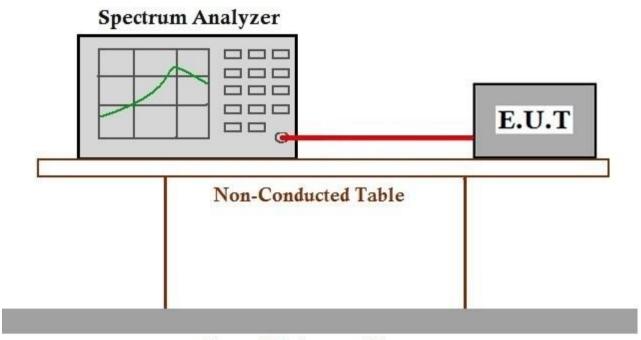
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Page: 17 of 73

7.4.3 Test Setup Diagram



Ground Reference Plane

7.4.4 Measurement Procedure and Data

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Report No.: SZEM210100004802

Page: 18 of 73

7.5 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		
000 000	0.4S within a 20S period(20dB bandwidth<250kHz)		
902-928	0.4S within a 10S period(20dB bandwidth≥250kHz)		
2400 2402 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		

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1010 mbar

7.5.2 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. All modes have been tested and only the data of worst case is recorded in the report.				



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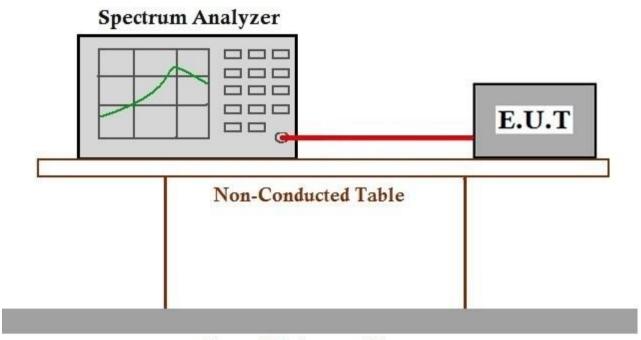
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7.5.3 Test Setup Diagram



Ground Reference Plane

7.5.4 Measurement Procedure and Data

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7.6 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).

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1010 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. All modes have been tested and only the data of worst case is recorded in the report.



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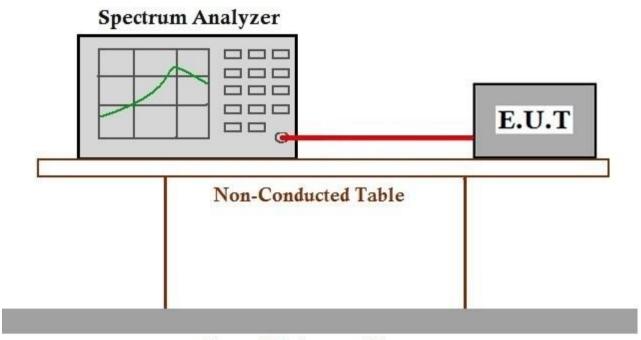
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7.6.3 Test Setup Diagram



Ground Reference Plane

7.6.4 Measurement Procedure and Data

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Page: 22 of 73

7.7 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).

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1010 mbar

7.7.2 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. All modes have been tested and only the data of worst case is recorded in the report.

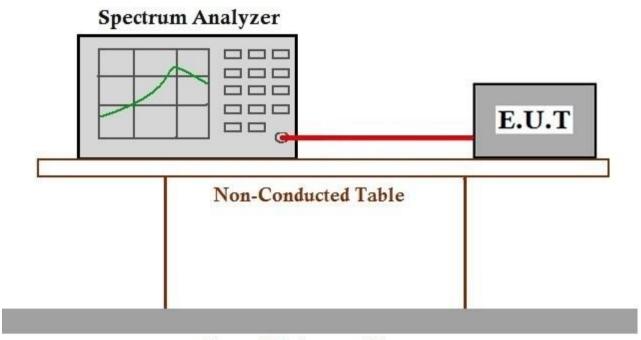




Report No.: SZEM210100004802

Page: 23 of 73

7.7.3 Test Setup Diagram



Ground Reference Plane

7.7.4 Measurement Procedure and Data

Please Refer To Appendix For Details



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Report No.: SZEM210100004802

Page: 24 of 73

7.8 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.

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 20.3 °C Humidity: 52.3 % RH Atmospheric Pressure: 1010 mbar

7.8.2 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. All modes have been tested and only the data of worst case is recorded in the report.



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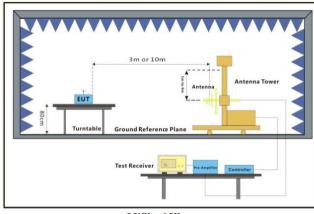
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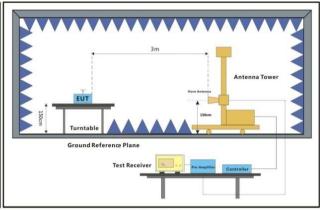


Report No.: SZEM210100004802

Page: 25 of 73

7.8.3 Test Setup Diagram





30MHz-1GHz

Above 1GHz

7.8.4 Measurement Procedure and Data

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

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

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



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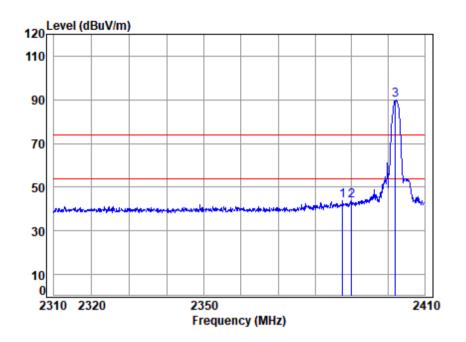
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Report No.: SZEM210100004802

26 of 73 Page:

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00048CR

Mode : 2402 Band edge

Note

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2387.534	4.34	28.51	40.42	51.19	43.62	74.00	-30.38	peak	
2	2390.000	4.34	28.52	40.42	51.18	43.62	74.00	-30.38	peak	
3 *	2402.000	4.36	28.54	40.43	97.20	89.67	74.00	15.67	peak	



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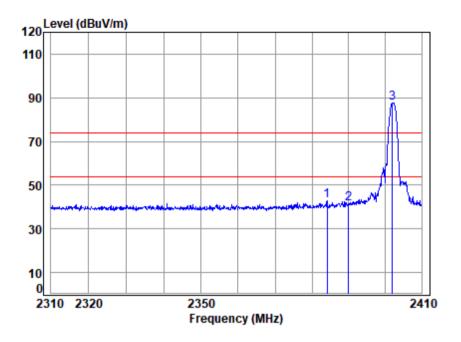
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Report No.: SZEM210100004802

27 of 73 Page:

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



Site : chamber

Condition: 3m VERTICAL

Job No : 00048CR

Mode : 2402 Band edge

Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
									
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2204 206	4 22	20 54	40.40	FO 44	40.00	74.00	24.44	
1	2384.096	4.33	28.51	40.42	50.44	42.86	74.00	-31.14	реак
2	2390.000	4.34	28.52	40.42	49.21	41.65	74.00	-32.35	peak
3 *	2402.000	4.36	28.54	40.43	95.14	87.61	74.00	13.61	peak



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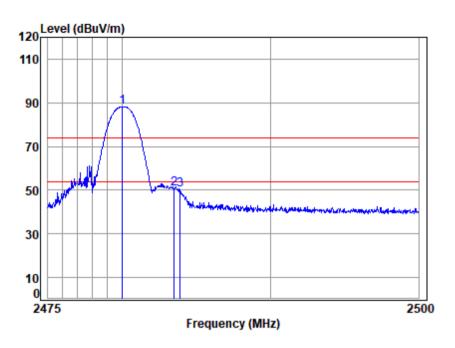
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Report No.: SZEM210100004802

Page: 28 of 73

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00048CR

Mode : 2480 Band edge

Note : 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	*	2480.000	4.49	28.67	40.47	95.37	88.06	74.00	14.06	peak	
2		2483.500	4.49	28.67	40.47	58.06	50.75	74.00	-23.25	peak	
3		2483.896	4.49	28.67	40.47	57.34	50.03	74.00	-23.97	peak	



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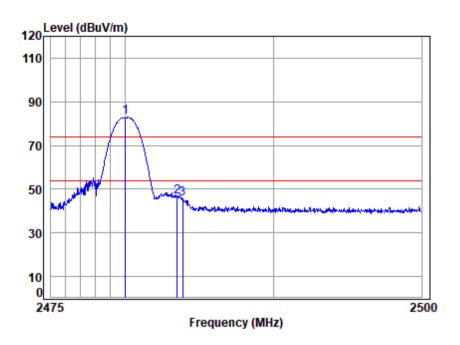
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Page: 29 of 73

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



Site : chamber

Condition: 3m VERTICAL Job No : 00048CR

Mode : 2480 Band edge

Note : 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	*	2480.000	4.49	28.67	40.47	90.17	82.86	74.00	8.86	peak	
2		2483.500	4.49	28.67	40.47	53.70	46.39	74.00	-27.61	peak	
3		2483.846	4.49	28.67	40.47	52.78	45.47	74.00	-28.53	peak	



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Page: 30 of 73

7.9 Radiated Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209 Test Method: ANSI C63.10 (2013) Section 6.4,6.5,6.6

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.

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 21.6 °C Humidity: 48.2 % RH Atmospheric Pressure: 1010 mbar

7.9.2 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. All modes have been tested and only the data of worst case is recorded in the report.



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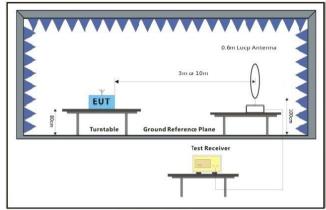
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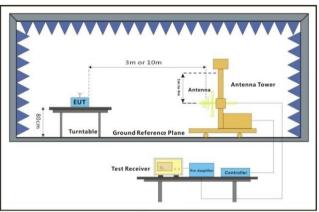


Report No.: SZEM210100004802

Page: 31 of 73

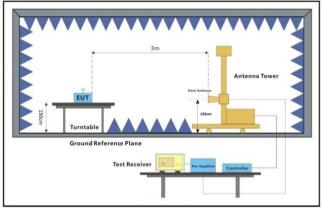
7.9.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz



Above 1GHz



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Report No.: SZEM210100004802

Page: 32 of 73

7.9.4 Measurement Procedure and Data

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

Remark:

- 1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

- 3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and 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.
- 4) 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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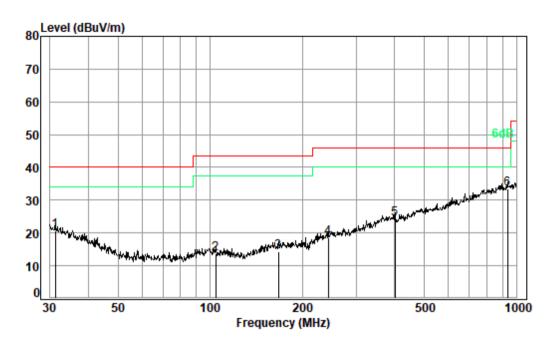
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Report No.: SZEM210100004802

Page: 33 of 73

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



Condition: 3m HORIZONTAL

Job No. : 00048CR

Test Mode: 00

162 C	Mode. 00								
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	31.18	0.61	22.10	27.73	25.82	20.80	40.00	-19.20	QP
2	104.17	1.11	13.87	27.58	26.42	13.82	43.50	-29.68	QP
3	167.24	1.17	15.55	27.26	24.81	14.27	43.50	-29.23	QP
4	243.38	1.59	17.94	27.01	25.95	18.47	46.00	-27.53	QP
5	401.84	2.30	21.68	27.40	27.67	24.25	46.00	-21.75	QP
6 p	p 935.55	3.54	29.20	26.98	27.70	33.46	46.00	-12.54	OP



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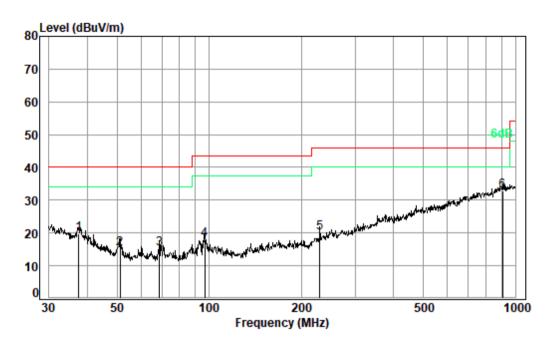
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Report No.: SZEM210100004802

Page: 34 of 73

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



Condition: 3m VERTICAL Job No. : 00048CR

Test Mode: 00

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
_									
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	37.55	0.68	19.31	27.71	27.36	19.64	40.00	-20.36	QP
2	51.12	0.71	13.76	27.68	28.37	15.16	40.00	-24.84	QP
3	68.87	0.80	12.64	27.65	29.44	15.23	40.00	-24.77	QP
4	96.77	1.16	13.80	27.61	30.73	18.08	43.50	-25.42	QP
5	230.10	1.48	17.31	27.05	28.20	19.94	46.00	-26.06	QP
6 pp	906.48	3.51	29.00	27.13	27.57	32.95	46.00	-13.05	QP



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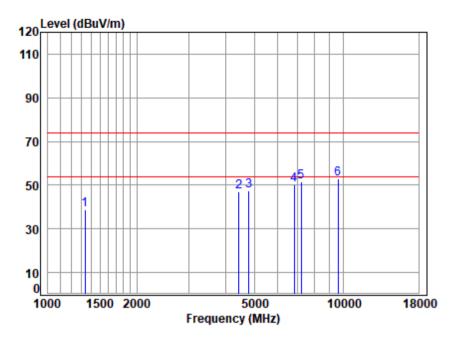
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Page: 35 of 73

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00048CR Mode : 2402 TX SE

Note : 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	
4	1225 141	2 00	25 47	20.05	FQ F3	20 04	74.00	25 46	
1	1335.141	5.00	25.1/	39.85	50.52	30.04	74.00	-35.10	реак
2	4443.453	6.71	33.50	41.82	48.70	47.09	74.00	-26.91	peak
3	4804.000	7.10	33.97	42.14	48.44	47.37	74.00	-26.63	peak
4	6815.551	8.45	35.79	41.82	47.99	50.41	74.00	-23.59	peak
5	7206.000	8.74	36.07	41.50	48.18	51.49	74.00	-22.51	peak
6	9608.000	10.81	37.67	37.76	42.36	53.08	74.00	-20.92	peak



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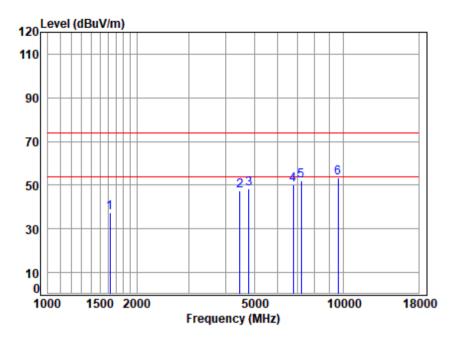
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Page: 36 of 73

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



Site : chamber

Condition: 3m VERTICAL

Job No : 00048CR Mode : 2402 TX SE

Note : 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	
4	1625 121	2 27	26.26	40.00	47.00	27 50	74.00	26 44	
1	1625.121	3.3/	26.36	40.02	47.88	37.59	74.00	-36.41	реак
2	4469.214	6.73	33.55	41.85	48.81	47.24	74.00	-26.76	peak
3	4804.000	7.10	33.97	42.14	49.26	48.19	74.00	-25.81	peak
4	6776.265	8.43	35.77	41.85	48.05	50.40	74.00	-23.60	peak
5	7206.000	8.74	36.07	41.50	48.52	51.83	74.00	-22.17	peak
6	9608.000	10.81	37.67	37.76	42.62	53.34	74.00	-20.66	peak



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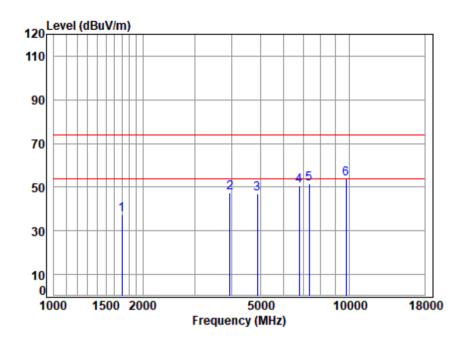
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Report No.: SZEM210100004802

Page: 37 of 73

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00048CR Mode : 2441 TX SE

Note : 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	1697.129	3.43	26.66	40.06	47.59	37.62	74.00	-36.38	peak
2	3946.885	6.20	32.60	41.37	50.16	47.59	74.00	-26.41	peak
3	4882.000	7.18	34.06	42.20	48.00	47.04	74.00	-26.96	peak
4	6776.265	8.43	35.77	41.85	48.52	50.87	74.00	-23.13	peak
5	7323.000	8.85	36.16	41.40	48.02	51.63	74.00	-22.37	peak
6	9764.000	10.76	37.76	37.50	42.68	53.70	74.00	-20.30	peak



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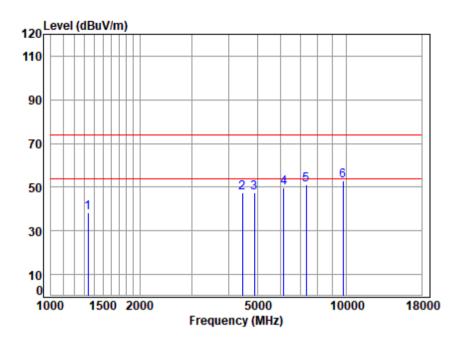
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Report No.: SZEM210100004802

Page: 38 of 73

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



Site : chamber

Condition: 3m VERTICAL

Job No : 00048CR Mode : 2441 TX SE

Note : 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	1335.141	3.00	25.17	39.85	49.92	38.24	74.00	-35.76	peak
2	4456.315	6.72	33.53	41.84	49.18	47.59	74.00	-26.41	peak
3	4882.000	7.18	34.06	42.20	48.53	47.57	74.00	-26.43	peak
4	6142.019	8.27	35.25	42.29	48.70	49.93	74.00	-24.07	peak
5	7323.000	8.85	36.16	41.40	47.67	51.28	74.00	-22.72	peak
6	9764.000	10.76	37.76	37.50	41.91	52.93	74.00	-21.07	peak



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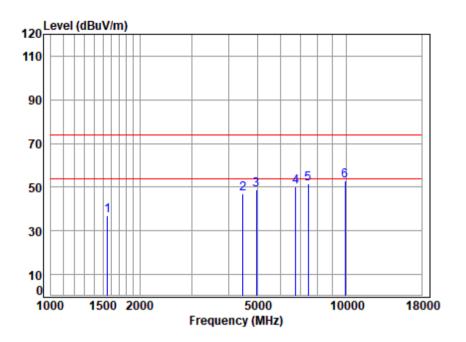
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Page: 39 of 73

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00048CR Mode : 2480 TX SE

Note : 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	1551.677	3.31	26.04	39.98	47.75	37.12	74.00	-36.88	peak
2	4469.214	6.73	33.55	41.85	48.54	46.97	74.00	-27.03	peak
3	4960.000	7.26	34.15	42.27	49.54	48.68	74.00	-25.32	peak
4	6756.708	8.42	35.76	41.86	47.92	50.24	74.00	-23.76	peak
5	7440.000	8.96	36.25	41.29	47.70	51.62	74.00	-22.38	peak
6	9920.000	10.71	37.85	37.23	41.64	52.97	74.00	-21.03	peak



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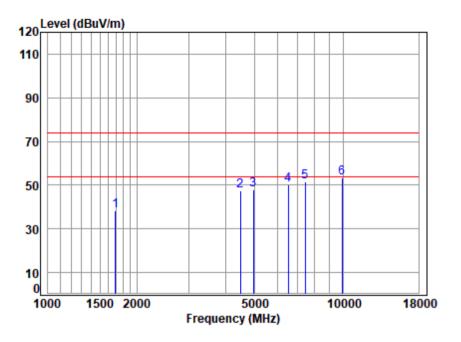
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Page: 40 of 73

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



Site : chamber

Condition: 3m VERTICAL

Job No : 00048CR Mode : 2480 TX SE

Note : 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	1692.231	3.42	26.64	40.06	48.14	38.14	74.00	-35.86	peak
2	4482.150	6.74	33.57	41.86	48.79	47.24	74.00	-26.76	peak
3	4960.000	7.26	34.15	42.27	48.98	48.12	74.00	-25.88	peak
4	6507.536	8.28	35.60	42.03	48.24	50.09	74.00	-23.91	peak
5	7440.000	8.96	36.25	41.29	47.83	51.75	74.00	-22.25	peak
6	9920.000	10.71	37.85	37.23	41.97	53.30	74.00	-20.70	peak



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Report No.: SZEM210100004802

Page: 41 of 73

Test Setup Photo 8

Refer to Setup Photos

EUT Constructional Details (EUT Photos) 9

Refer to EUT External and Internal photos



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Report No.: SZEM210100004802

42 of 73 Page:

10 Appendix

Appendix for 15.247

1. Bandwidth

1.1 Test Result

Toot Mode	Frequency	TV Tupo	ANT No	20dB Bandwidth	Verdict	
Test Mode	(MHz)	TX Type	ANT No.	Test Result (MHz)	verdict	
GFSK	2402	SISO	1	0.805	PASS	
	2441	SISO	1	0.805	PASS	
	2480	SISO	1	0.804	PASS	
	2402	SISO	1	1.217	PASS	
Pi/4DQPSK	2441	SISO	1	1.214	PASS	
	2480	SISO	1	1.215	PASS	

Took Mode	Frequency	TV Tuna	ANT No.	99% Occupied Bandwidth			
Test Mode	(MHz)	TX Type		Test Res	ult (MHz)		
GFSK	2402	SISO	1	0.817	Only for Report Use		
	2441	SISO	1	0.811	Only for Report Use		
	2480	SISO	1	0.821	Only for Report Use		
	2402	SISO	1	1.168	Only for Report Use		
Pi/4DQPSK	2441	SISO	1	1.166	Only for Report Use		
	2480	SISO	1	1.165	Only for Report Use		



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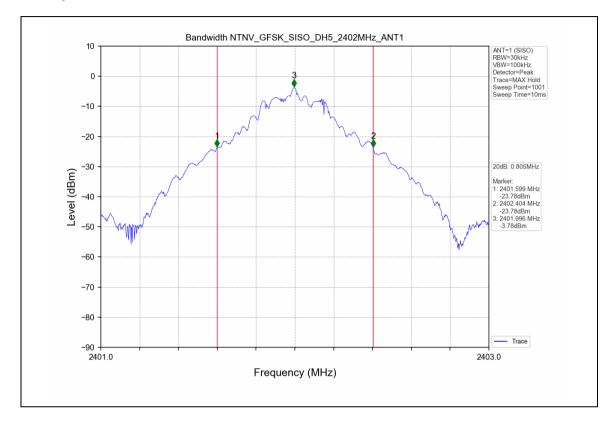


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Report No.: SZEM210100004802

Page: 43 of 73

1.2 Test Graph - 20dB Bandwidth





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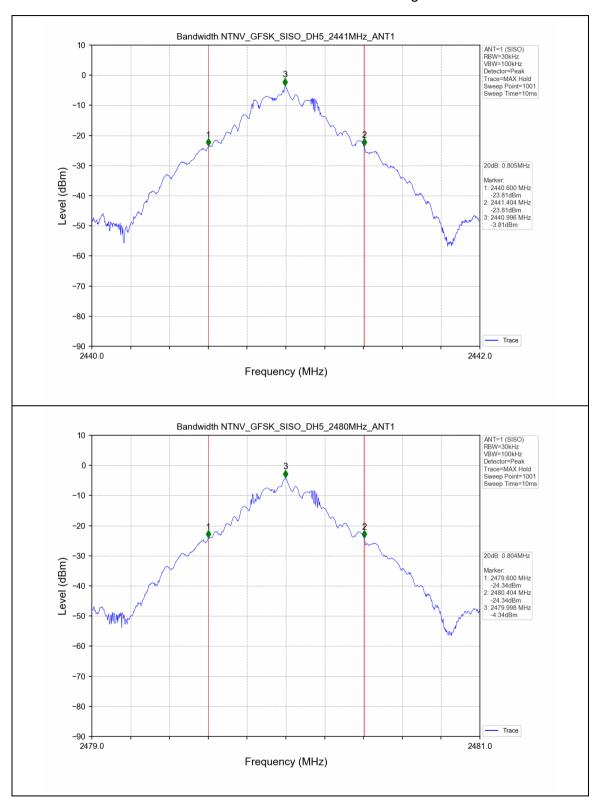
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Report No.: SZEM210100004802

44 of 73 Page:





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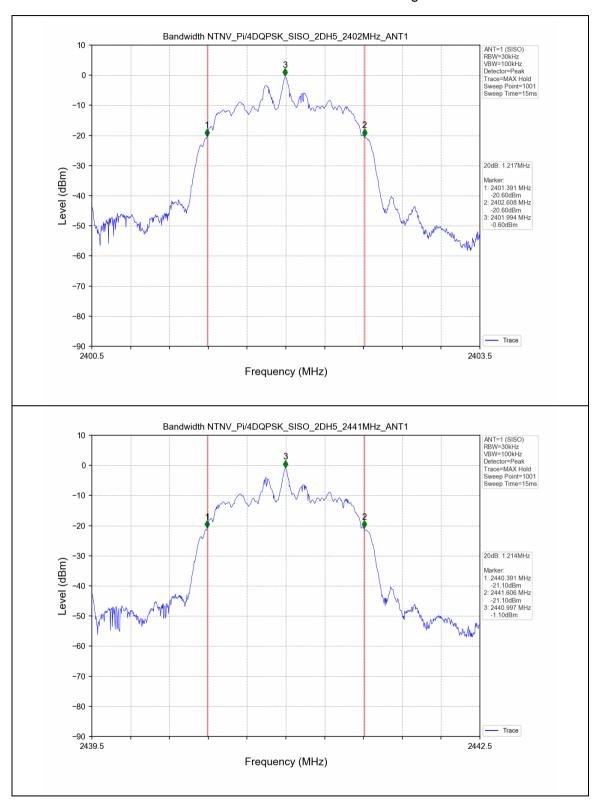
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45 of 73 Page:





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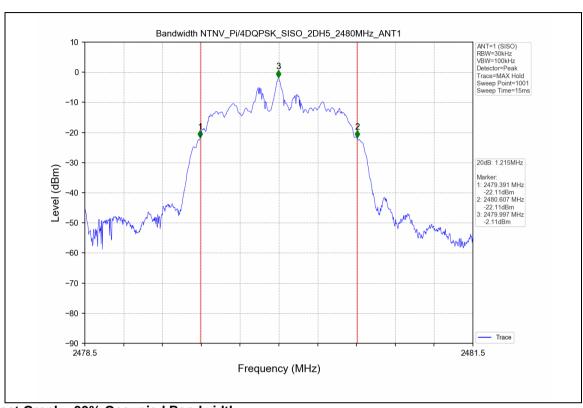
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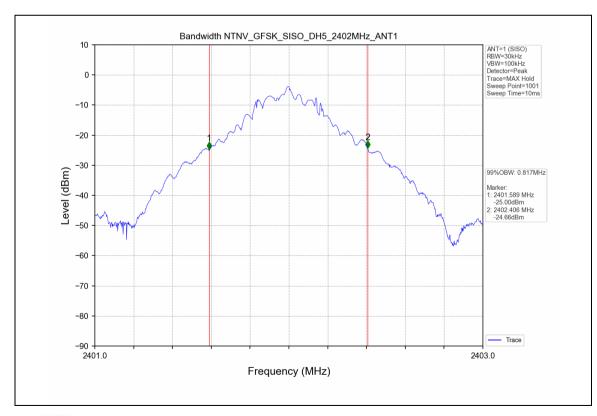


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46 of 73 Page:



1.3 Test Graph - 99% Occupied Bandwidth





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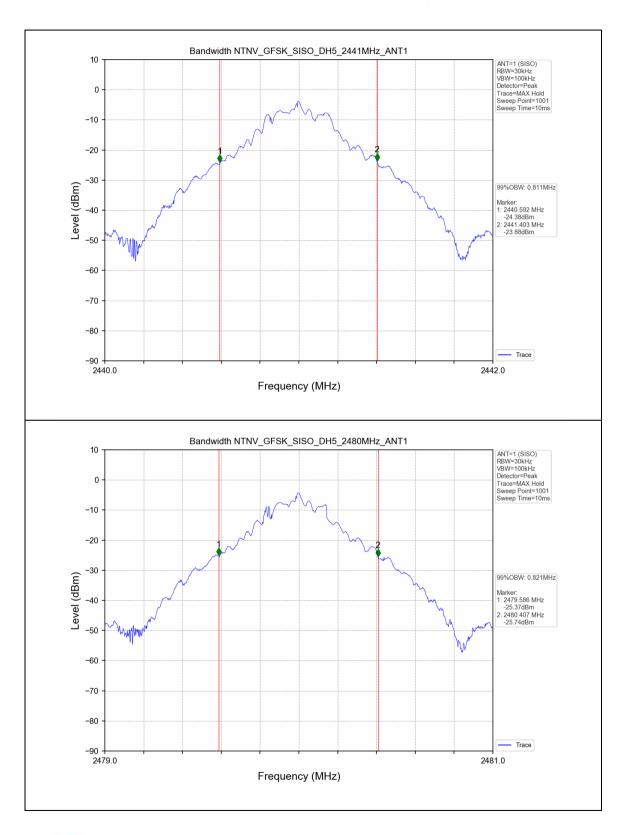
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Page: 47 of 73





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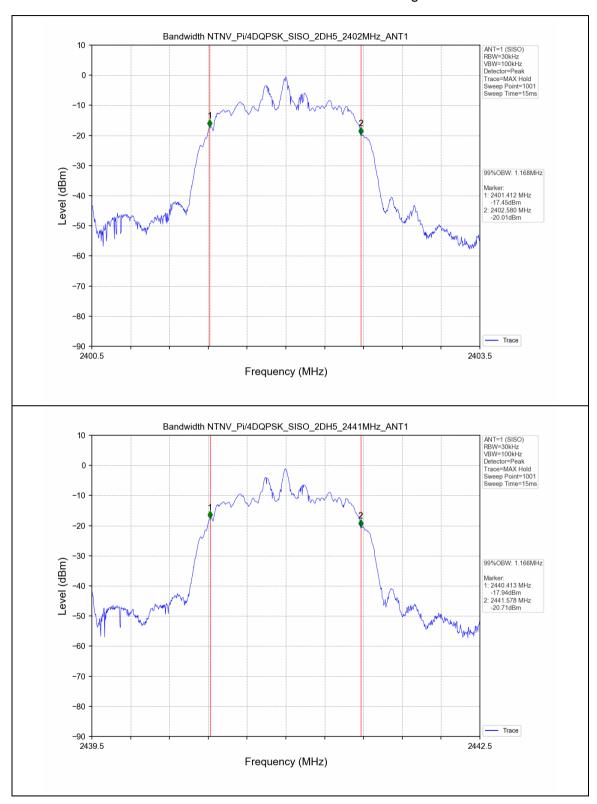
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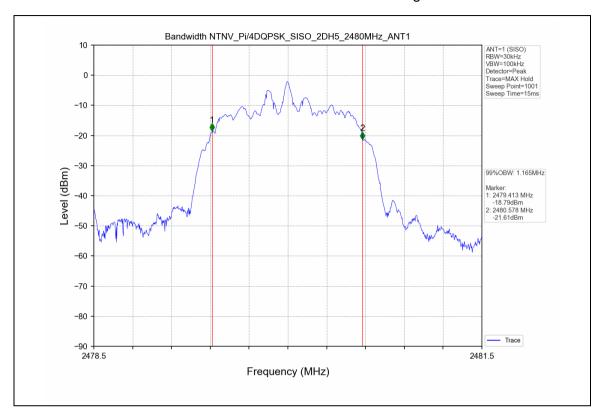
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49 of 73 Page:





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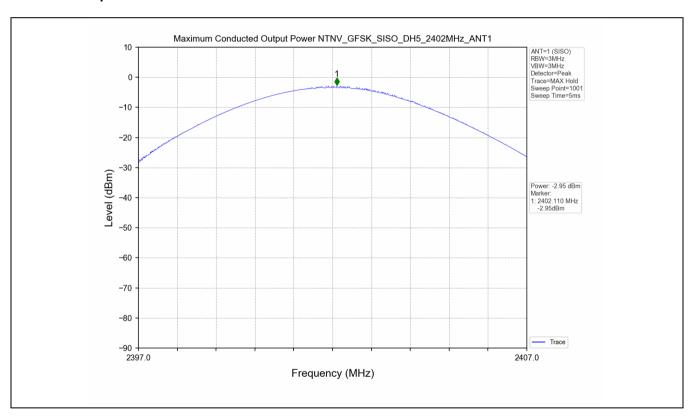
Page: 50 of 73

2. Maximum Conducted Output Power

2.1 Test Result

Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
	(1011-12)		Ant 1		
	2402	SISO	-2.95	30	PASS
GFSK	2441	SISO	-2.94	30	PASS
	2480	SISO	-3.51	30	PASS
	2402	SISO	0.98	20.97	PASS
Pi/4DQPSK	2441	SISO	0.13	20.97	PASS
	2480	SISO	-0.80	20.97	PASS

2.2 Test Graph





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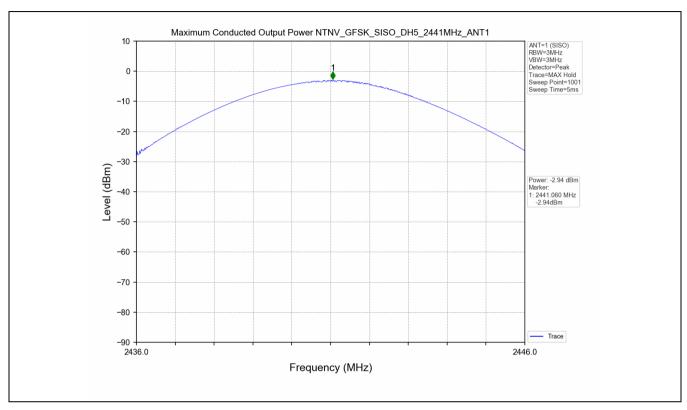
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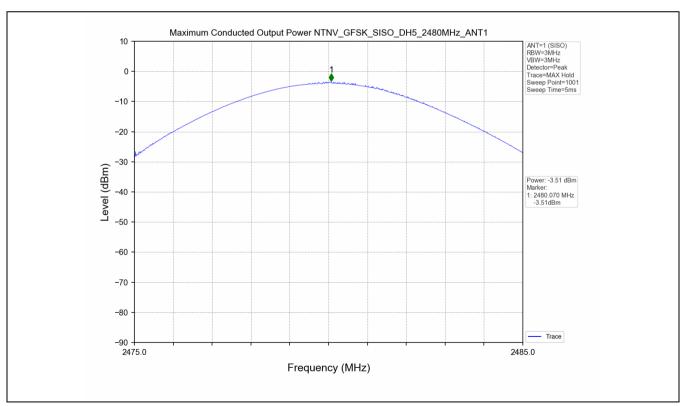
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51 of 73 Page:







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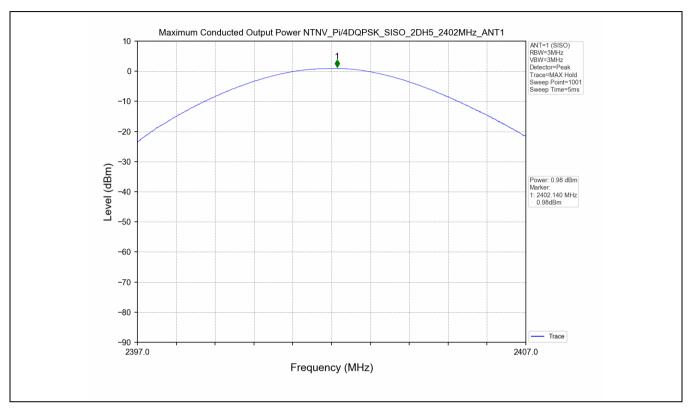
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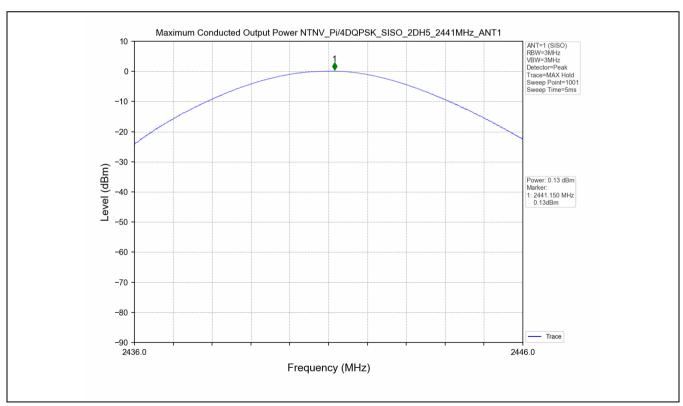
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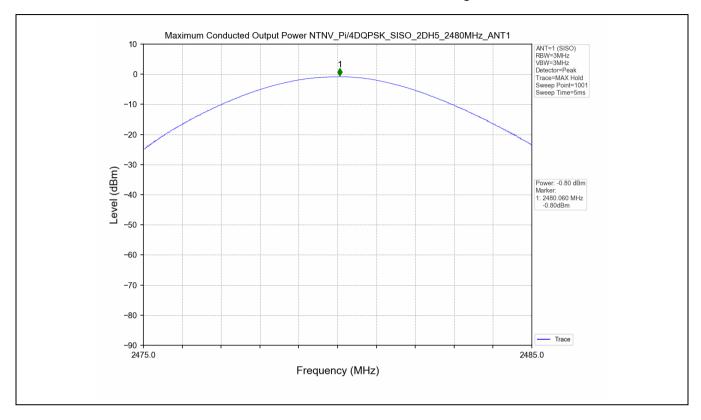
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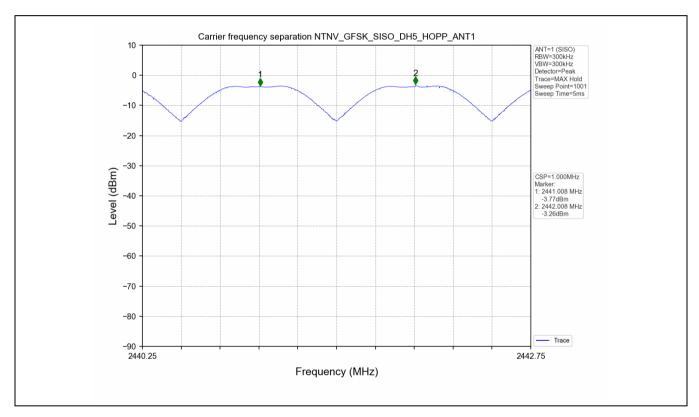
Page: 54 of 73

3. Carrier frequency separation

3.1 Test Result

Test Mode	ТХ Туре	ANT No.	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limits (MHz)	Verdict
GFSK	SISO	1	1.000	0.805	≥0.805	PASS
Pi/4DQPSK	SISO	1	0.975	1.217	≥0.811	PASS

3.2 Test Graph





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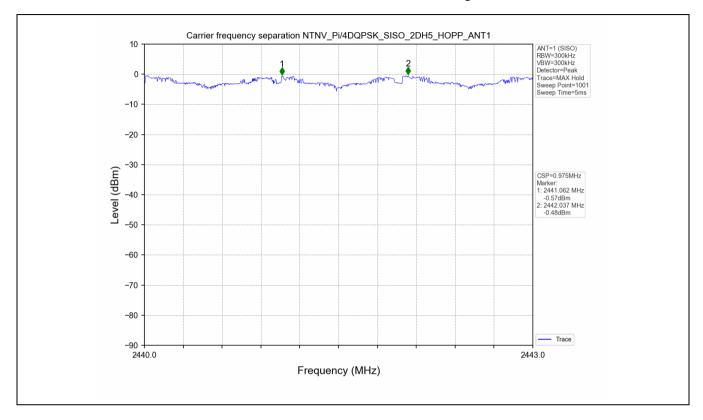
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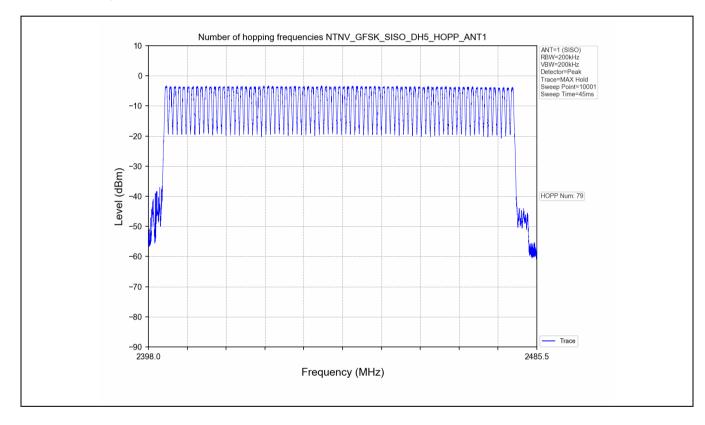
Page: 56 of 73

4. Number of hopping frequencies

4.1 Test Result

Test Mode	TX Type	ANT No.	Num of Hopping Frequencies	Limits	Verdict
GFSK	SISO	1	79	≥15	PASS
Pi/4DQPSK	SISO	1	79	≥15	PASS

4.2 Test Graph





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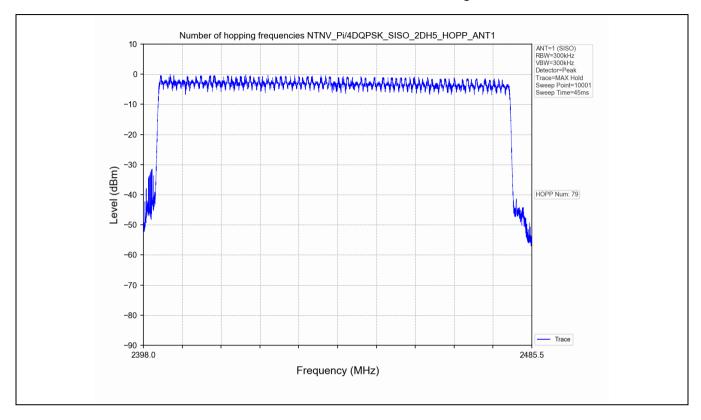
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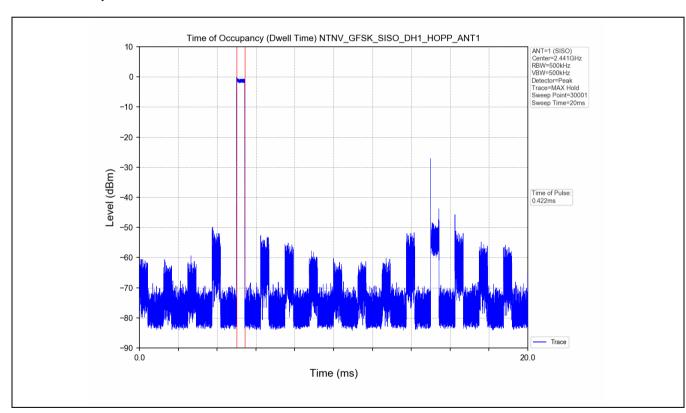
Page: 58 of 73

5. Time of Occupancy (Dwell Time)

5.1 Test Result

Test Mode	Packet Type	TX Type	ANT No.	Duration of Single Pulse (ms)	ation Period	Num of Pulse in Observation Period	Dwell Time (ms)	Limits (ms)	Verdict
	DH1	SISO	1	0.422	31.6	320	135.040	≤400	PASS
GFSK	DH3	SISO	1	1.677	31.6	159	266.643	≤400	PASS
	DH5	SISO	1	2.925	31.6	112	327.600	≤400	PASS
D:/4D.O	2DH1	SISO	1	0.433	31.6	319	138.127	≤400	PASS
Pi/4DQ PSK	2DH3	SISO	1	1.685	31.6	162	272.970	≤400	PASS
1 OIX	2DH5	SISO	1	2.933	31.6	109	319.697	≤400	PASS

5.2 Test Graph





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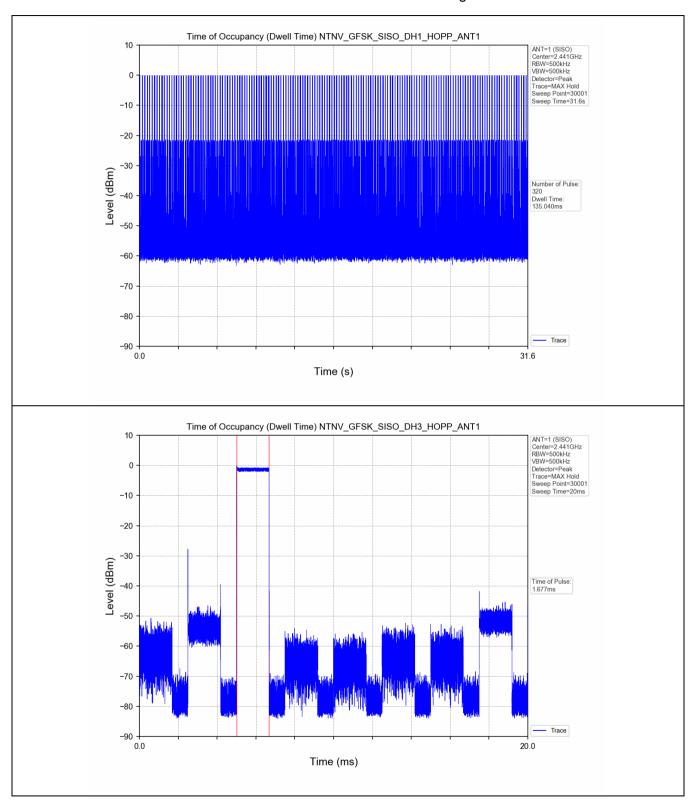
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Report No.: SZEM210100004802

59 of 73 Page:





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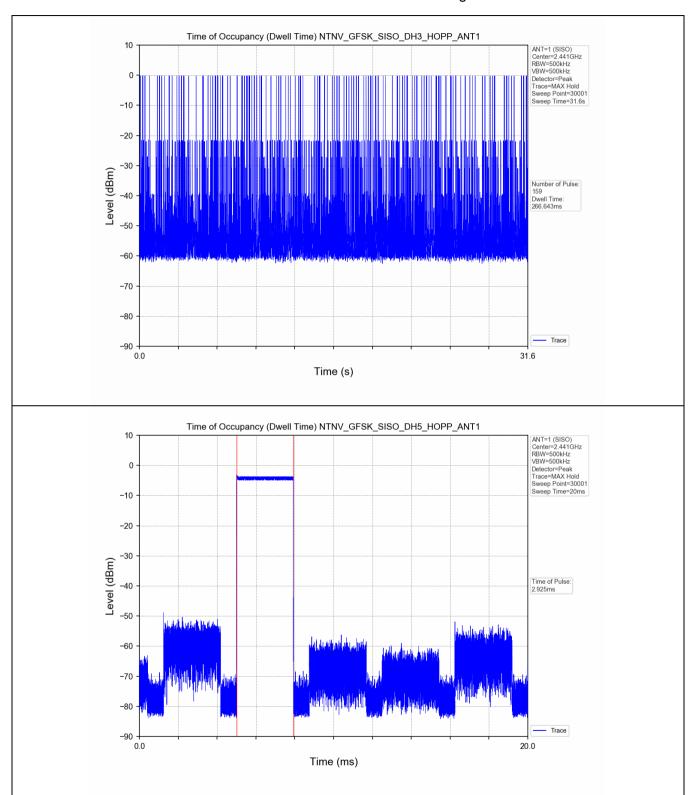
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60 of 73 Page:





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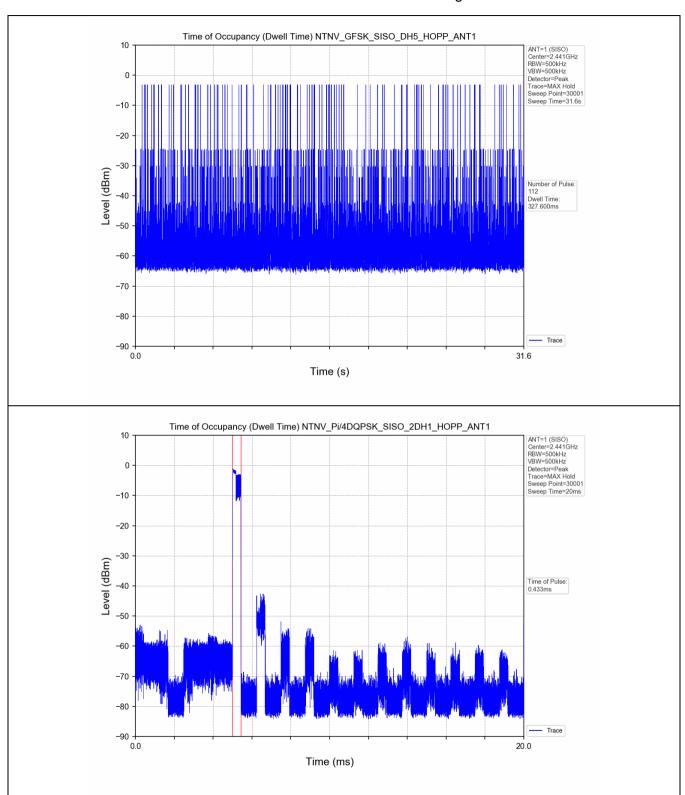
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Report No.: SZEM210100004802

61 of 73 Page:





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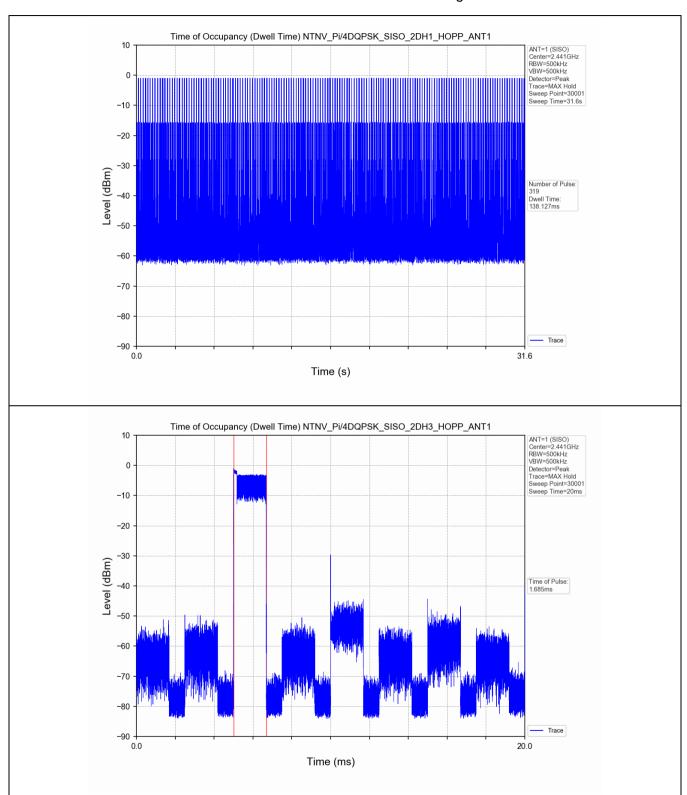
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62 of 73 Page:





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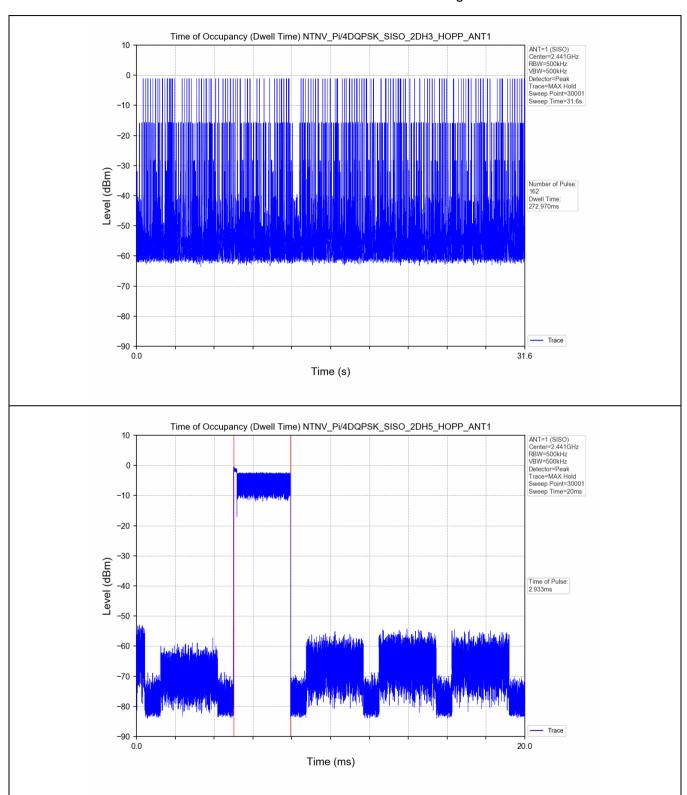
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63 of 73 Page:





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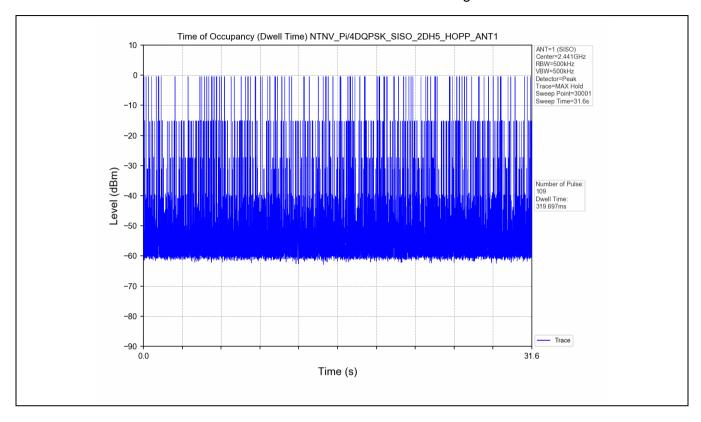
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64 of 73 Page:





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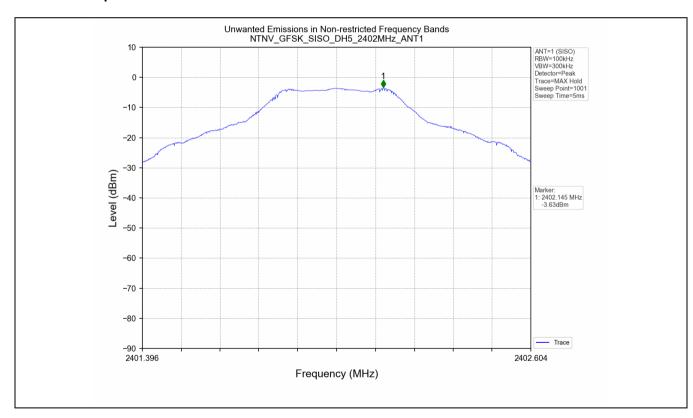
65 of 73 Page:

6. Unwanted Emissions in Non-restricted Frequency Bands

6.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
	2402	SISO	1	Refer to test graph	-23.63	PASS
GFSK	2441	SISO	1	Refer to test graph	-23.63	PASS
Gran	2480	SISO	1	Refer to test graph	-23.63	PASS
	Hopping	SISO	1	Refer to test graph	-23.63	PASS
	2402	SISO	1	Refer to test graph	-20.46	PASS
D:/ADODCK	2441	SISO	1	Refer to test graph	-20.46	PASS
Pi/4DQPSK	2480	SISO	1	Refer to test graph	-20.46	PASS
	Hopping	SISO	1	Refer to test graph	-20.46	PASS

6.2 Test Graph





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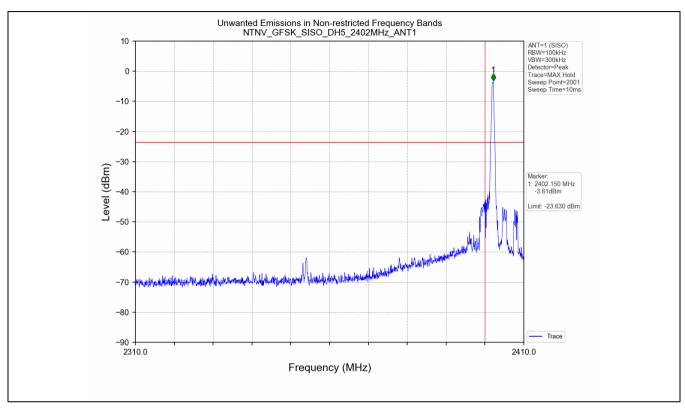
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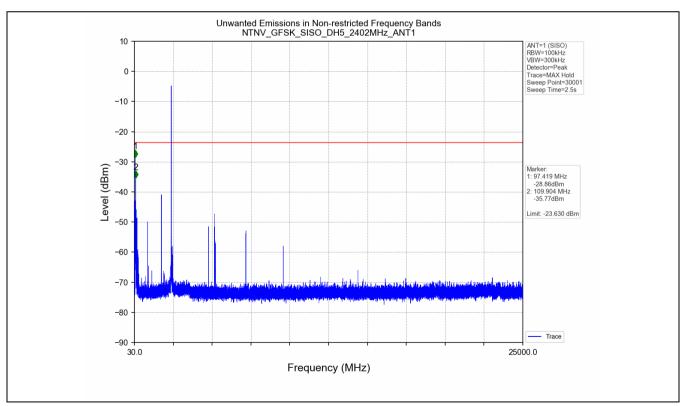
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66 of 73 Page:







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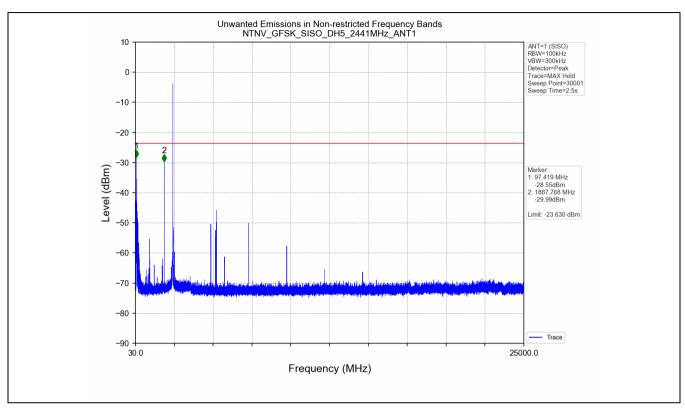
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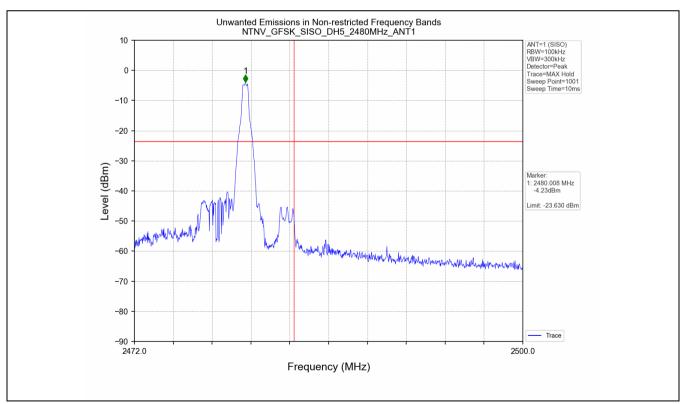
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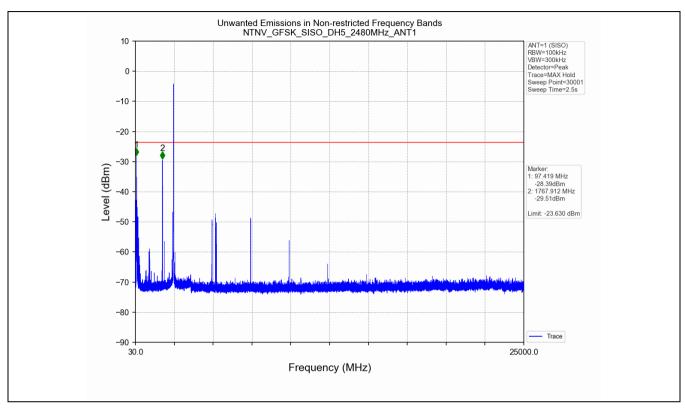
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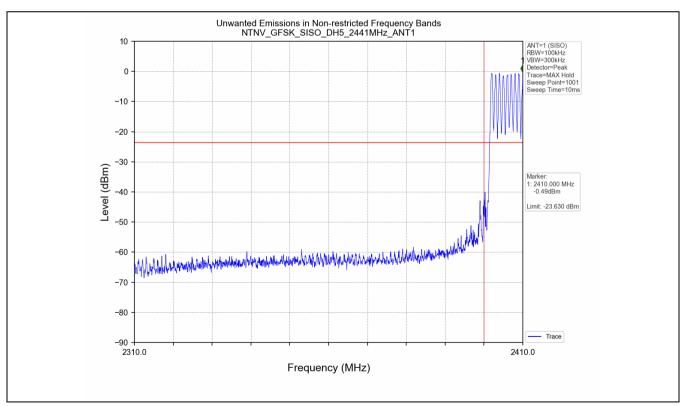
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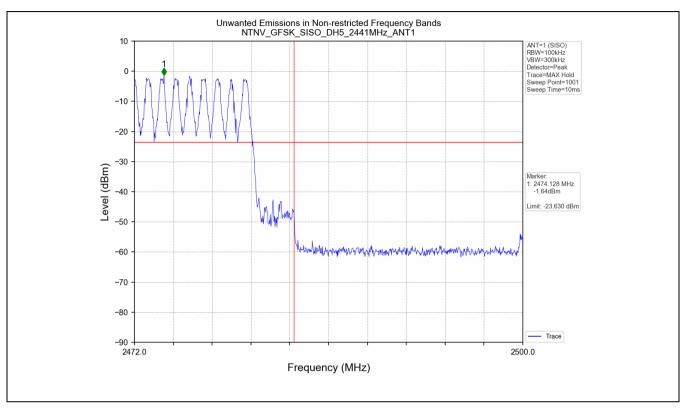
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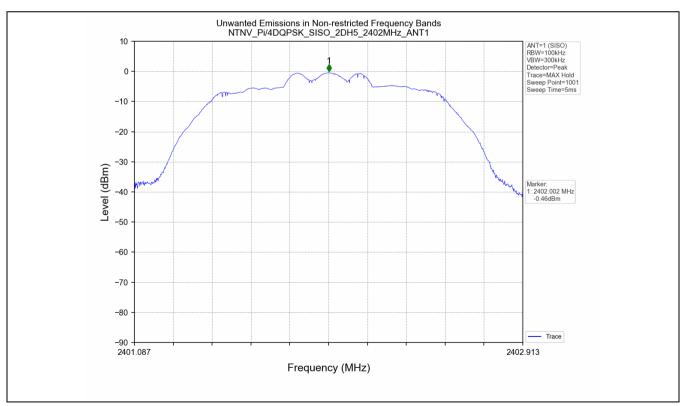
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69 of 73 Page:







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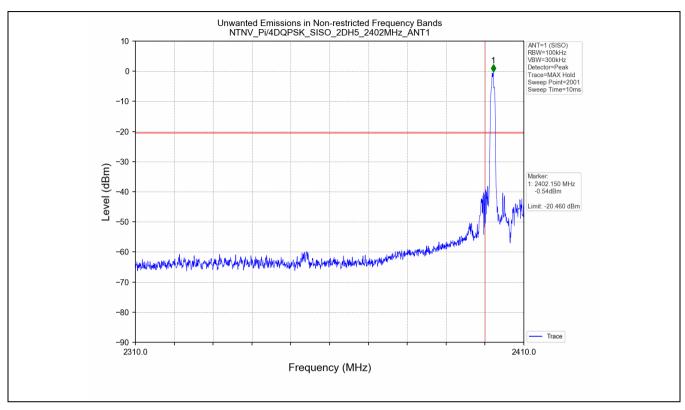
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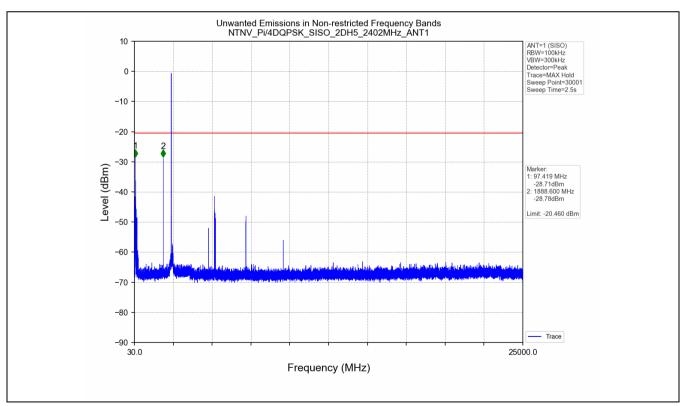
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70 of 73 Page:







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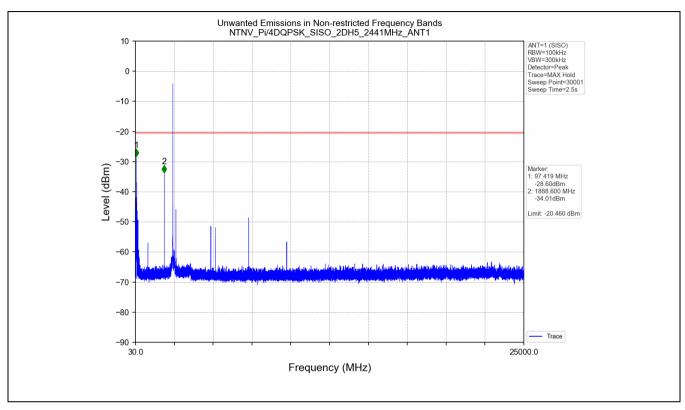
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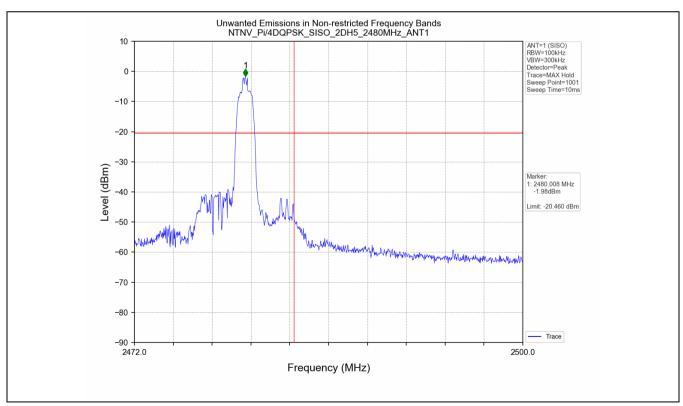
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71 of 73 Page:







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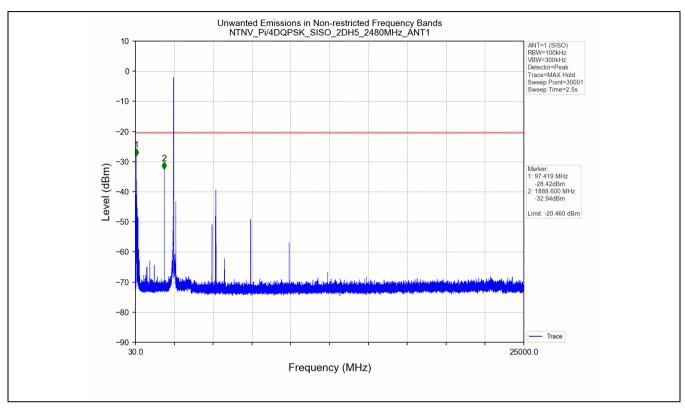
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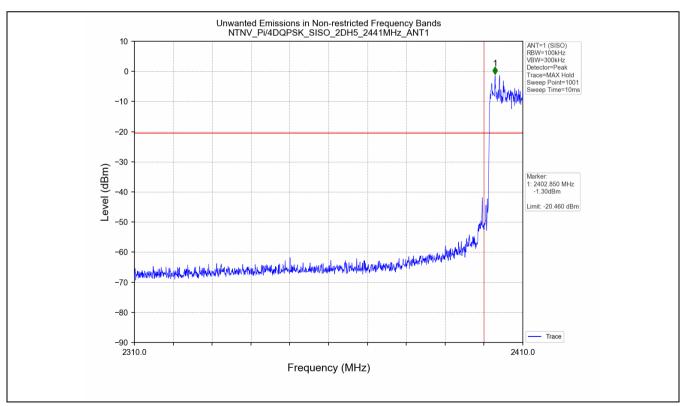
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72 of 73 Page:







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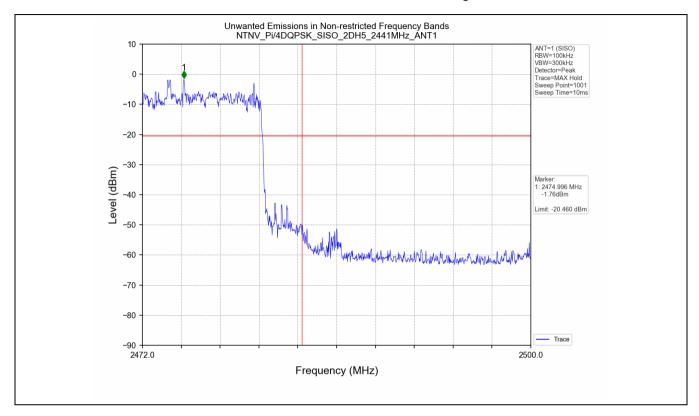
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73 of 73 Page:



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