

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

Report No.: SZCR230500140302 Page: 1 of 89

TEST REPORT

Application No.:	SZCR2305001403AT
Applicant:	Harman International Industries, Inc.
Address of Applicant:	8500 Balboa Boulevard, Northridge, California, 91329, United States
Manufacturer:	Harman International Industries, Inc.
Address of Manufacturer:	8500 Balboa Boulevard, Northridge, California, 91329, United States
Factory:	1. Cosonic Electroacoustic Technology Co., Ltd.
	2. COSONIC VIETNAM COMPANY LIMITED
	3. Jiangxi Cosonic Electroacoustic Technologies Co., Ltd.
Address of Factory:	1. No.151, Shipai Section, Dongyuan Avenue, Shipai Town, Dongguan City, Guangdong Province, P.R.China
	2. Lot C5-1, Ba Thien II Industrial Park, Thien Ke Ward, Binh Xuyen District, Vinh Phuc Province, Vietnam
	3. Shangli Industrial Park, Jinshan Town, Shangli County, Pingxiang, 337009 Jiangxi, P.R. China
Equipment Under Test (EUT):
EUT Name:	Bluetooth headset
Model No.:	LIVE670NC
Trade Mark:	JBL
FCC ID:	APILIVE670NC
Standard(s) :	47 CFR Part 15, Subpart C 15.247
Date of Receipt:	2023-05-10
Date of Test:	2023-05-16 to 2023-05-18
Date of Issue:	2023-05-24
Test Result:	Pass*

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

Keny. XM

Keny Xu EMC Laboratory Manager



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

Report No.: SZCR230500140302 Page: 2 of 89

	Revision Record					
Version	Chapter	Date	Modifier	Remark		
01		2023-05-24		Original		

Authorized for issue by:		
	Bonison Wang	
	Benson Wang/Project Engineer	-
	Eric Fu	
	Eric Fu/Reviewer	-



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

Report No.: SZCR230500140302 Page: 3 of 89

2 Test Summary

Radio Spectrum Technical Requirement					
ltem	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						
ltem	Standard	Method	Requirement	Result		
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass		
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass		
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass		
Conducted Peak Output Power		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		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/0 Aug01,2022

Report No.: SZCR230500140302 Page: 4 of 89

3 Contents

		Page
1	Cover Page	1
2	Test Summary	3
3	Contents	1
5		
4	General Information	6
	4.1 Details of E.U.T.	6
	4.2 Description of Support Units	
	4.3 Measurement Uncertainty	
	4.4 Test Location	
	4.5 Test Facility	
	4.6 Deviation from Standards	8
	4.7 Abnormalities from Standard Conditions	8
5	Equipment List	0
5		
6	Radio Spectrum Technical Requirement	12
Ŭ		
	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:	
7	Radio Spectrum Matter Test Results	15
	7.1 Radiated Emissions which fall in the restricted bands	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	16
	7.2 Radiated Spurious Emissions Below 1GHz	21
	7.2.1 E.U.T. Operation	21
	7.2.2 Test Mode Description	
	7.2.3 Test Setup Diagram	
	7.2.4 Measurement Procedure and Data	
	7.3 Radiated Spurious Emissions Above 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 Conducted Peak Output Power	
	7.4.1 E.U.T. Operation	
	7.4.2 Test Mode Description	33



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

Report No.: SZCR230500140302 Page: 5 of 89

	7.4.3	Test Setup Diagram	34
	7.4.4	Measurement Procedure and Data	34
7	.5 2	0dB Bandwidth	35
	7.5.1	E.U.T. Operation	35
	7.5.2	Test Mode Description	35
	7.5.3	Test Setup Diagram	35
	7.5.4	Measurement Procedure and Data	35
7	.6 0	Carrier Frequencies Separation	36
	7.6.1	E.U.T. Operation	36
	7.6.2	Test Mode Description	36
	7.6.3	Test Setup Diagram	36
	7.6.4	Measurement Procedure and Data	36
7		lopping Channel Number	37
	7.7.1	E.U.T. Operation	37
	7.7.2	Test Mode Description	37
	7.7.3	Test Setup Diagram	
	7.7.4	Measurement Procedure and Data	37
7	.8 E	Dwell Time	
	7.8.1	E.U.T. Operation	38
	7.8.2	Test Mode Description	
	7.8.3	Test Setup Diagram	
	7.8.4	Measurement Procedure and Data	
7	.9 0	Conducted Band Edges Measurement	39
	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		Conducted Spurious Emissions	41
	7.10.1	E.U.T. Operation	41
	7.10.2		
	7.10.3		
	7.10.4	Measurement Procedure and Data	41
8	Test S	etup Photo	42
9	EUT C	constructional Details (EUT Photos)	42
10	Apper	ıdix	43



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

Report No.: SZCR230500140302 Page: 6 of 89

4 General Information

4.1 Details of E.U.T.

Power supply:	Rechargeable battery: 3.7V 850mAh (Charged by USB port)
Cable(s):	USB cable: 27cm unshielded
	AUX in cable: 131cm unshielded
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.3 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:	FPC Antenna
Antenna Gain:	2.83dBi
Bluetooth Version: Modulation Type: Number of Channels: Channel Spacing: Spectrum Spread Technology: Antenna Type:	2402MHz to 2480MHz V5.3 Dual mode GFSK, pi/4DQPSK, 8DPSK 79 1MHz Frequency Hopping Spread Spectrum(FHSS) FPC Antenna

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/0 Aug01,2022

Report No.: SZCR230500140302 Page: 7 of 89

4.3 Measurement Uncertainty

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

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cispr/ETSI} (CISPR/ETSI Uncertainty), so the test results

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

- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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

Report No.: SZCR230500140302 Page: 8 of 89

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. Fax: +86 755 2671 0594 Tel: +86 755 2601 2053 No tests were sub-contracted.

4.5 Test Facility

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

A2LA (Certificate No. 3816.01)

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

VCCI (Member No. 1937)

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

FCC –Designation Number: CN1336

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

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

Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions None



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

Report No.: SZCR230500140302 Page: 9 of 89

5 Equipment List

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	2022-04-02	2025-04-01
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2022-07-24	2024-07-23
Microwave system amplifier	Agilent	83017A	SEM005-25	2022-09-21	2023-09-20
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2022-07-08	2023-07-07
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2022-08-10	2024-08-09
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2023-03-20	2024-03-19

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

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



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

Report No.: SZCR230500140302 Page: 10 of 89

Conducted Peak Output Power					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2023-04-01	2024-03-31
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2023-03-21	2024-03-20
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30

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

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

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



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

Report No.: SZCR230500140302 Page: 11 of 89

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

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

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

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



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

Report No.: SZCR230500140302 Page: 12 of 89

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 2.83dBi.

Antenna location: Refer to internal photos.



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

Report No.: SZCR230500140302 Page: 13 of 89

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



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

Report No.: SZCR230500140302 Page: 14 of 89

frequency system.

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/0 Aug01,2022

Report No.: SZCR230500140302 Page: 15 of 89

7 Radio Spectrum Matter Test Results

7.1 Radiated Emissions which fall in the restricted bands

Test Requirement47 CFR Part 15, Subpart C 15.205 & 15.209Test Method:ANSI C63.10 (2013) Section 6.10.5Measurement Distance:3m

Limit:

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

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

7.1.1 E.U.T. Operation

Operating Environment: Temperature: 20.9 °C

Humidity: 60.6 % 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, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.



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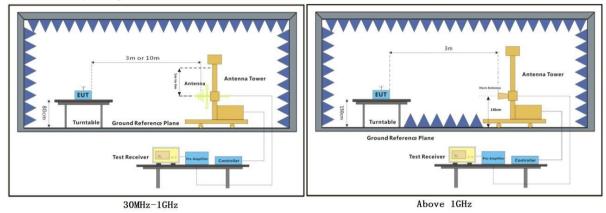
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500140302 Page: 16 of 89

7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

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

b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

h. Test the EUT in the lowest channel, the middle channel, the Highest channel.

i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

j. Repeat above procedures until all frequencies measured was complete.

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

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



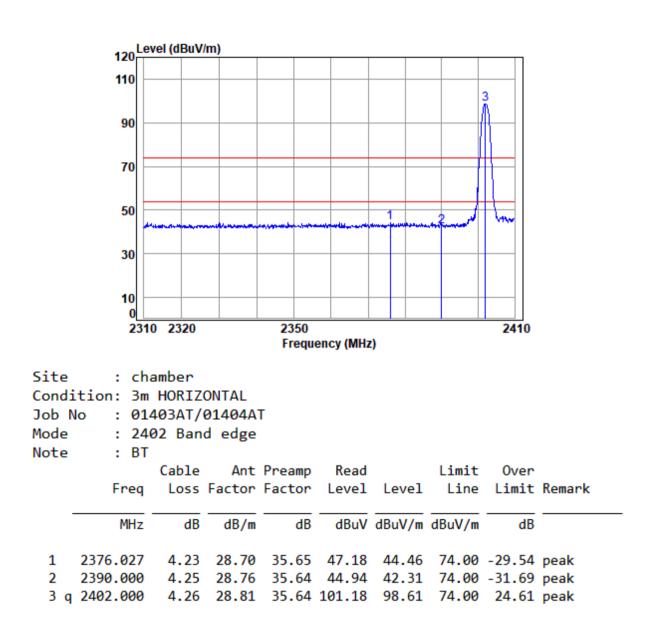
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500140302 Page: 17 of 89

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





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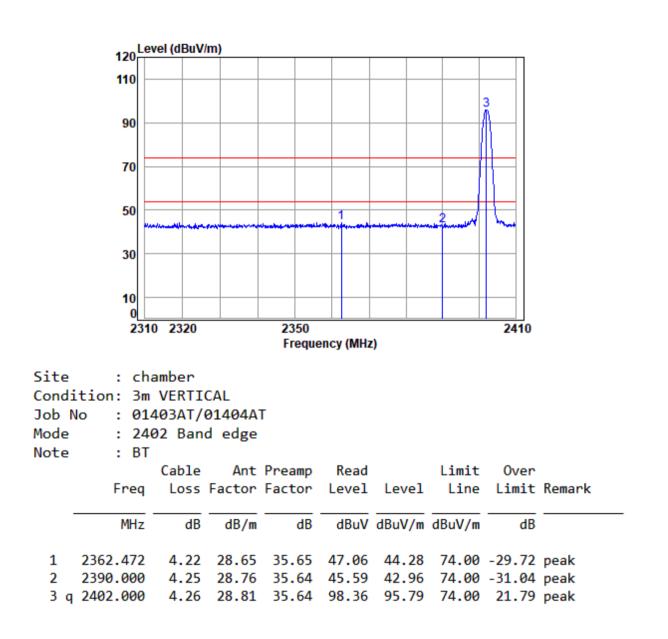
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500140302 Page: 18 of 89

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





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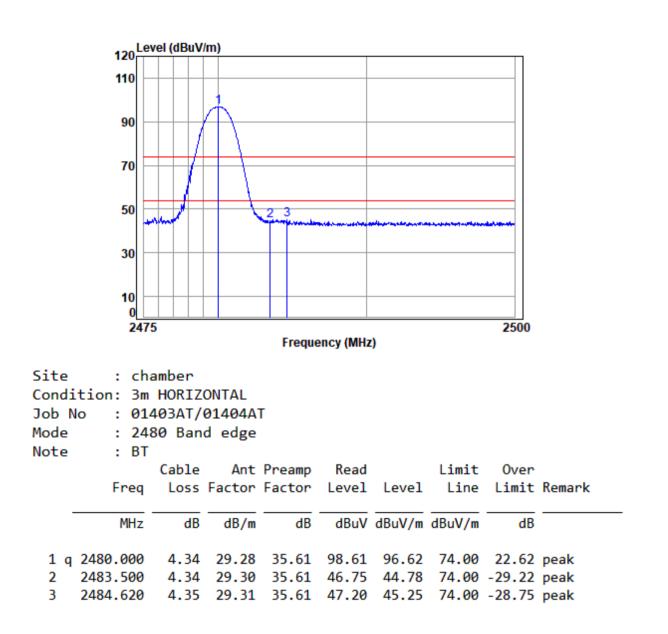
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500140302 Page: 19 of 89

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





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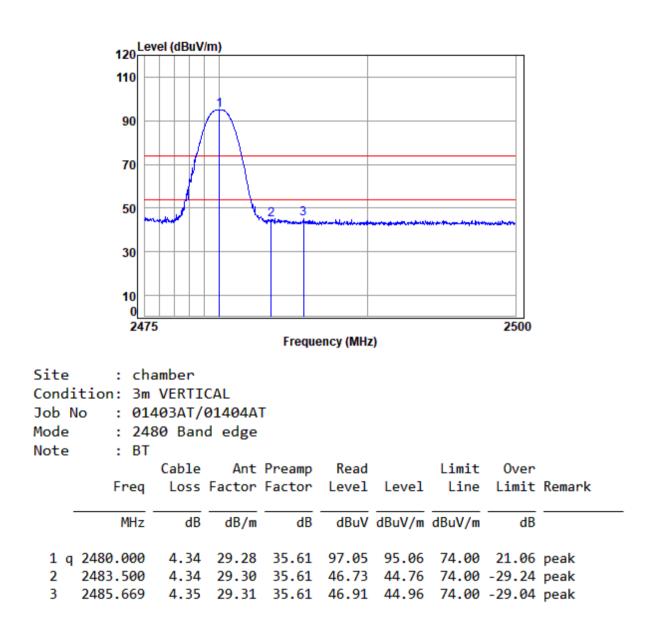
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500140302 Page: 20 of 89

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





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

Report No.: SZCR230500140302 Page: 21 of 89

7.2 Radiated Spurious Emissions Below 1GHz

Test Requirement	47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method:	ANSI C63.10 (2013) Section 6.4,6.5
Measurement Distance:	3m

Limit:

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

7.2.1 E.U.T. Operation

Operating Environment:

Temperature:	23.2 °C	Humidity:	50.5 % RH	Atmospheric Pressure:	1010	mbar
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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, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.



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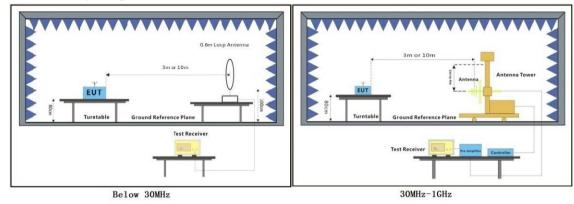
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500140302 Page: 22 of 89

7.2.3 Test Setup Diagram



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 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the middle channel, the Highest channel.

h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



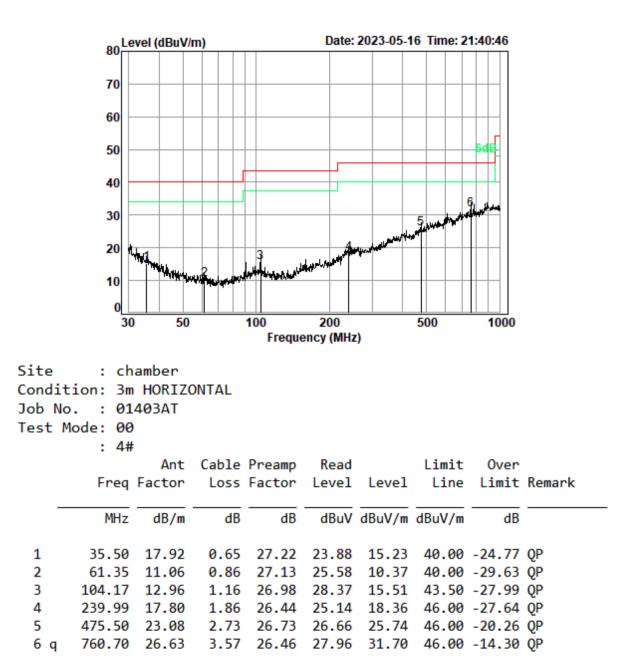
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500140302 Page: 23 of 89

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





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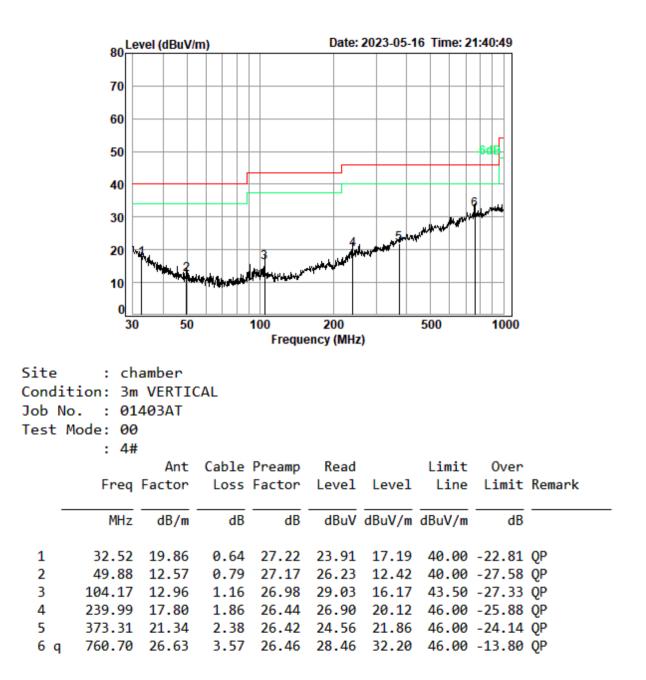
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500140302 Page: 24 of 89

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





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

Report No.: SZCR230500140302 Page: 25 of 89

7.3 Radiated Spurious Emissions Above 1GHz

Test Requirement	47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method:	ANSI C63.10 (2013) Section 6.6
Measurement Distance:	3m

Limit:

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

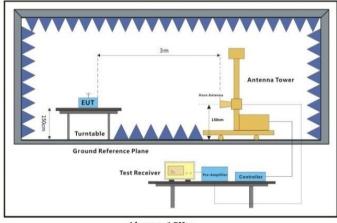
7.3.1 E.U.T. Operation

Operating Environ	ment:					
Temperature:	21.0 °C	Humidity:	60.0 % RH	Atmospheric Pressure:	1010	mbar

7.3.2 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.

7.3.3 Test Setup Diagram



Above 1GHz



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

Report No.: SZCR230500140302 Page: 26 of 89

7.3.4 Measurement Procedure and Data

a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the middle channel, the Highest channel.

h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

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



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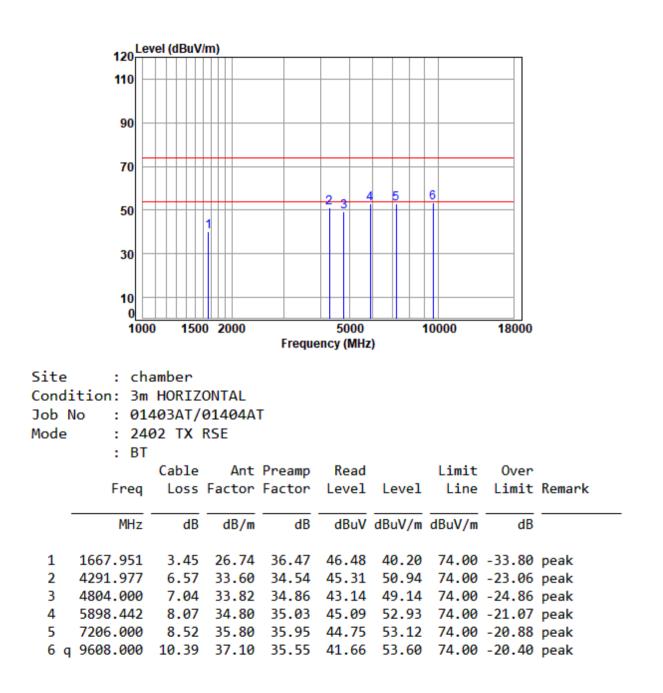
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500140302 Page: 27 of 89

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





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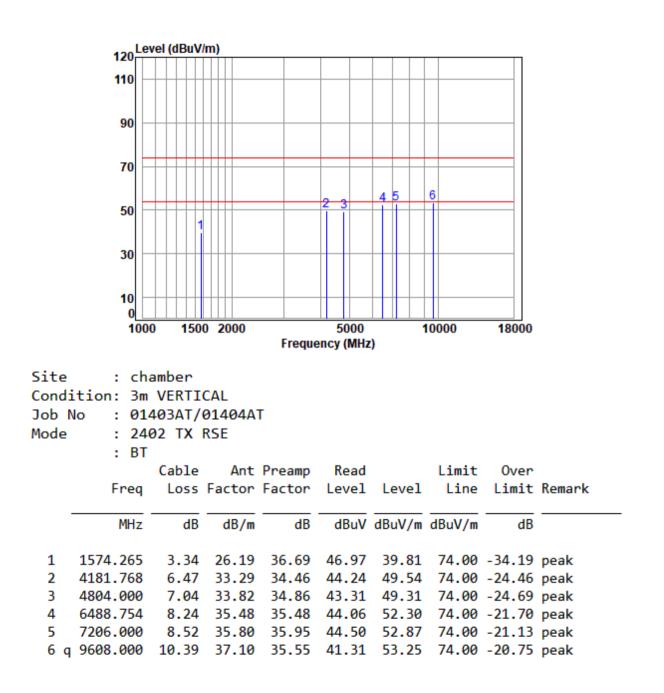
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500140302 Page: 28 of 89

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





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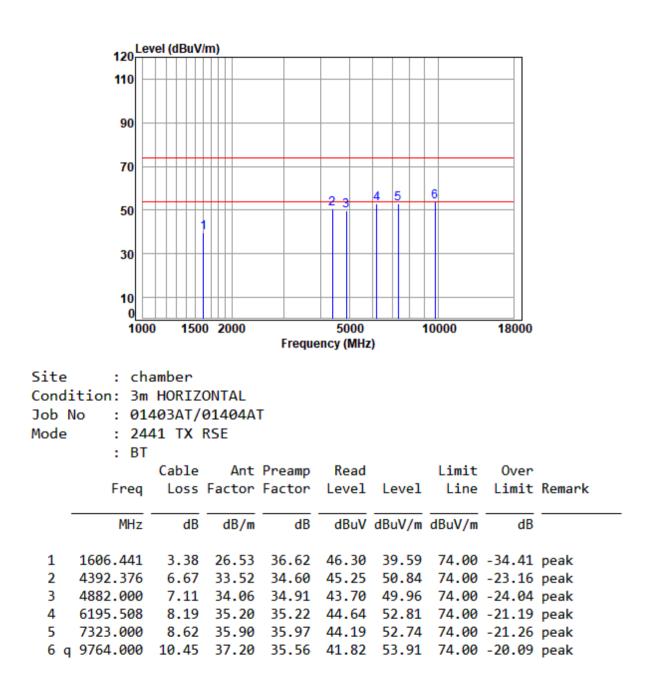
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500140302 Page: 29 of 89

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





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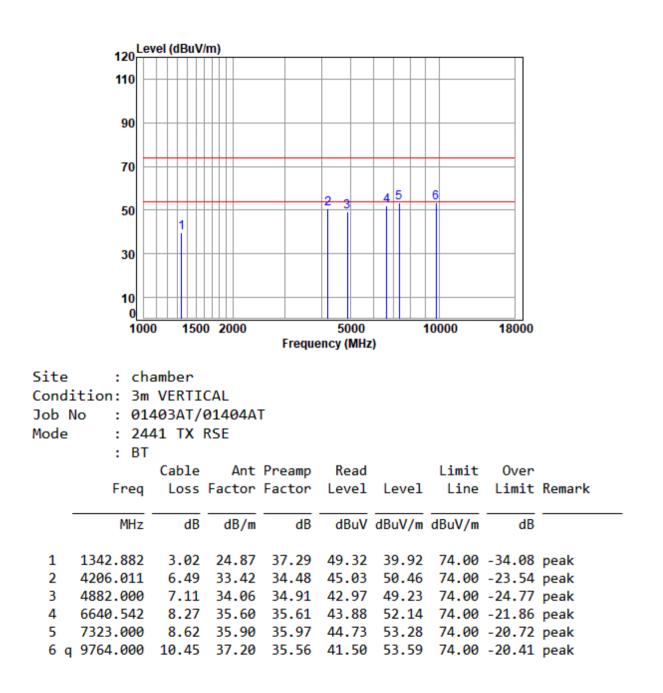
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500140302 Page: 30 of 89

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





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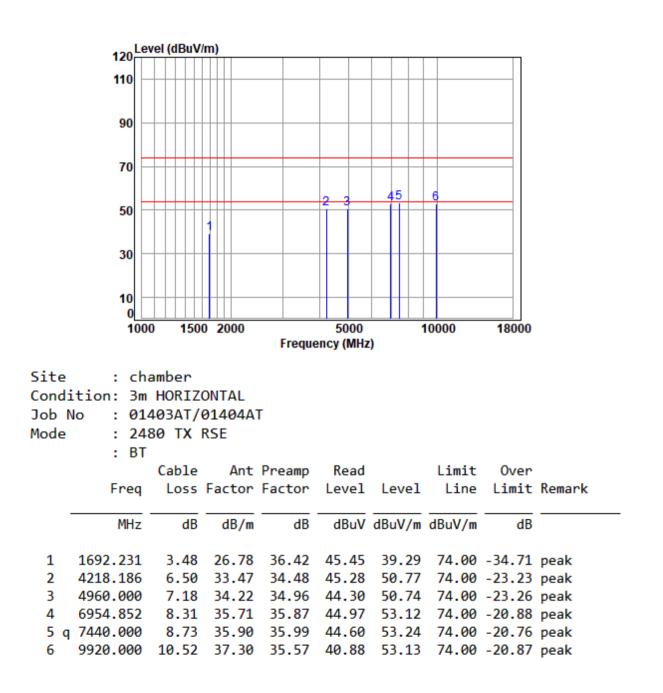
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500140302 Page: 31 of 89

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





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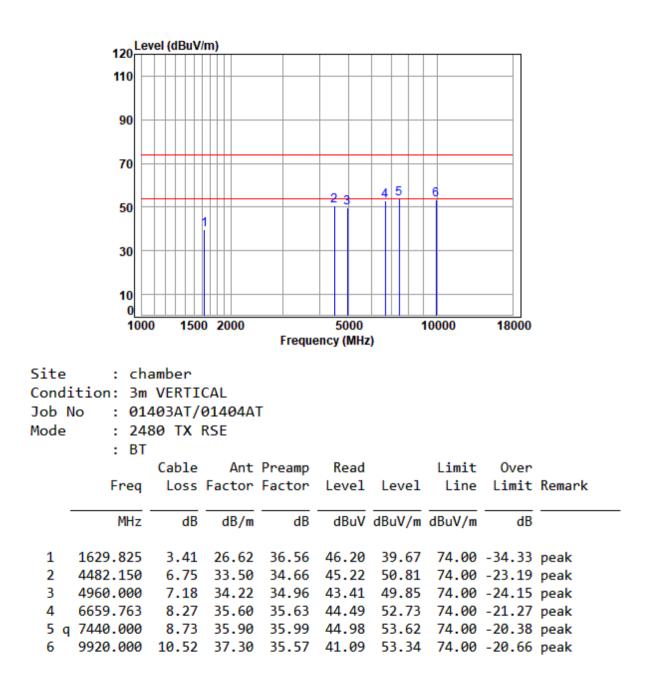
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500140302 Page: 32 of 89

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





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

Report No.: SZCR230500140302 Page: 33 of 89

7.4 Conducted Peak Output Power

Test Requirement	47 CFR Part 15, Subpart C 15.247(b)(1)
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
2400-2483.5	1 for ≥75 non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

7.4.1 E.U.T. Operation

Operating Environment:						
Temperature:	27.2 °C	Humidity:	46.8 % RH	Atmospheric Pressure:	1015	mbar

7.4.2 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.



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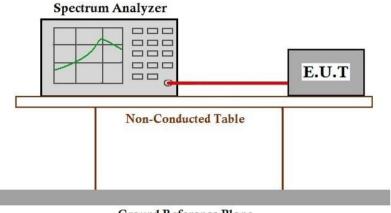
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500140302 Page: 34 of 89

7.4.3 Test Setup Diagram



Ground Reference Plane

7.4.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details



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

Report No.: SZCR230500140302 Page: 35 of 89

7.5 20dB Bandwidth

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

7.5.1 E.U.T. Operation

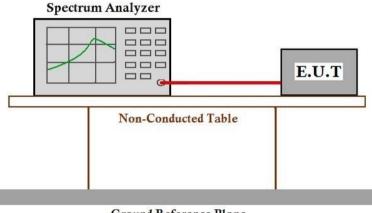
Operating Environment:

Humidity: 46.8 % RH Temperature: 27.2 °C Atmospheric Pressure: 1015 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

7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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

Report No.: SZCR230500140302 Page: 36 of 89

7.6 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.

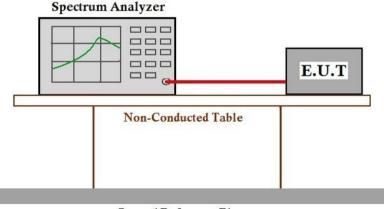
7.6.1 E.U.T. Operation

Operating Environment:						
Temperature:	27.2 °C	Humidity:	46.8 % RH	Atmospheric Pressure:	1015	mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description	
Final test	01	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.	

7.6.3 Test Setup Diagram



Ground Reference Plane

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7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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

Report No.: SZCR230500140302 Page: 37 of 89

7.7 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)
000.000	50 for 20dB bandwidth <250kHz
902-928	25 for 20dB bandwidth ≥250kHz
2400-2483.5	15
5725-5850	75

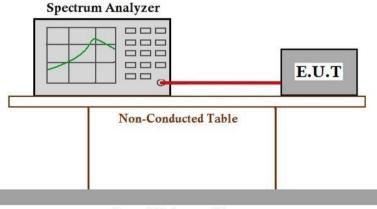
7.7.1 E.U.T. Operation

Operating Enviror	nment:					
Temperature:	27.2 °C	Humidity:	46.8 % RH	Atmospheric Pressure:	1015	mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	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/0 Aug01,2022

Report No.: SZCR230500140302 Page: 38 of 89

7.8 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 2492 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

7.8.1 E.U.T. Operation

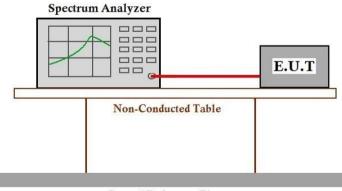
Operating Environment:

Temperature:	27.2 °C	Humidity:	46.8 % RH	Atmospheric Pressure:	1015	mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	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

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Report No.: SZCR230500140302 Page: 39 of 89

7.9 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).

7.9.1 E.U.T. Operation

Operating Environment:

Temperature:	27.2 °C	Humidity:	46.8 % RH	Atmospheric Pressure:	1015	mbar
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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	01	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.

7.9.2 Test Mode Description



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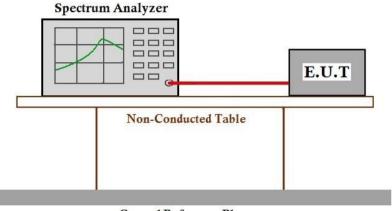
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500140302 Page: 40 of 89

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/0 Aug01,2022

Report No.: SZCR230500140302 Page: 41 of 89

7.10 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).

7.10.1 E.U.T. Operation

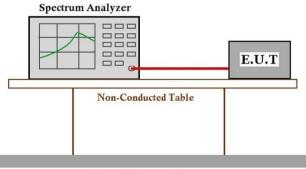
Operating Environment:

Temperature:	27.2 °C	Humidity:	46.8 % RH	Atmospheric Pressure:	1015	mbar

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.

7.10.2 Test Mode Description

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

Report No.: SZCR230500140302 Page: 42 of 89

8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2305001403AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for SZCR2305001403AT.



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

Report No.: SZCR230500140302 Page: 43 of 89

10 Appendix

- 1. Bandwidth
- 1.1 OBW

1.1.1 Test Result

Mode	ТΧ	Frequency	Packet	ANT	99% Occupied Bandwidth (MHz)	Verdict	
Widde	Туре	(MHz)	Туре	ANT	Result	verdict	
		2402	DH5	1	0.910	Pass	
GFSK	SISO	2441	DH5	1	0.932	Pass	
		2480	DH5	1	0.905	Pass	
		2402	2DH5	1	1.114	Pass	
Pi/4DQPSK	SISO	2441	2DH5	1	1.113	Pass	
		2480	2DH5	1	1.115	Pass	
		2402	3DH5	1	1.130	Pass	
8DPSK	SISO	2441	3DH5	1	1.129	Pass	
		2480	3DH5	1	1.133	Pass	



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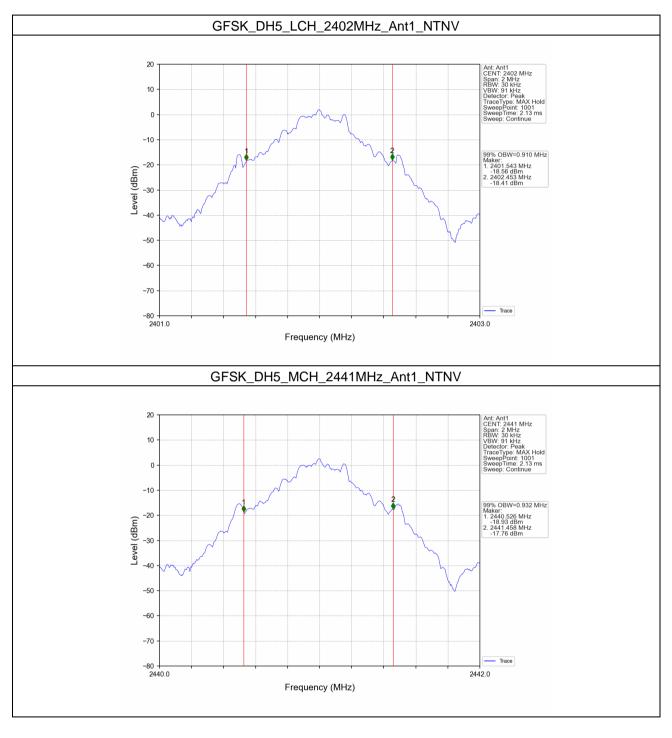
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500140302 Page: 44 of 89

1.1.2 Test Graph





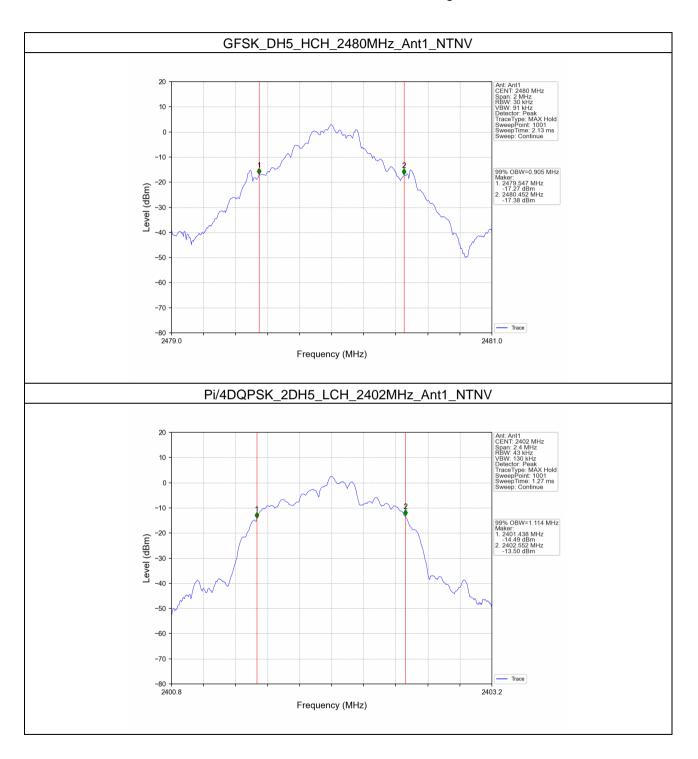
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500140302 Page: 45 of 89





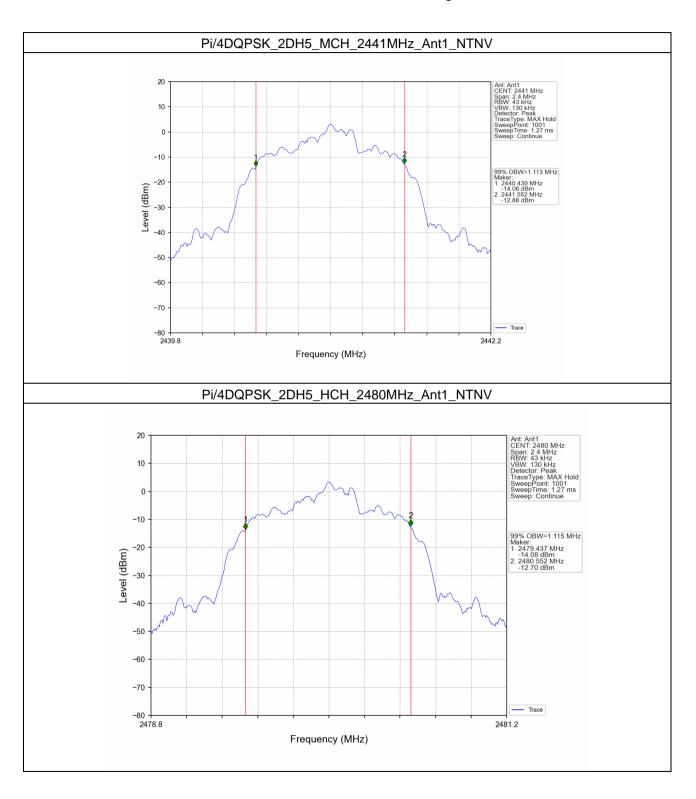
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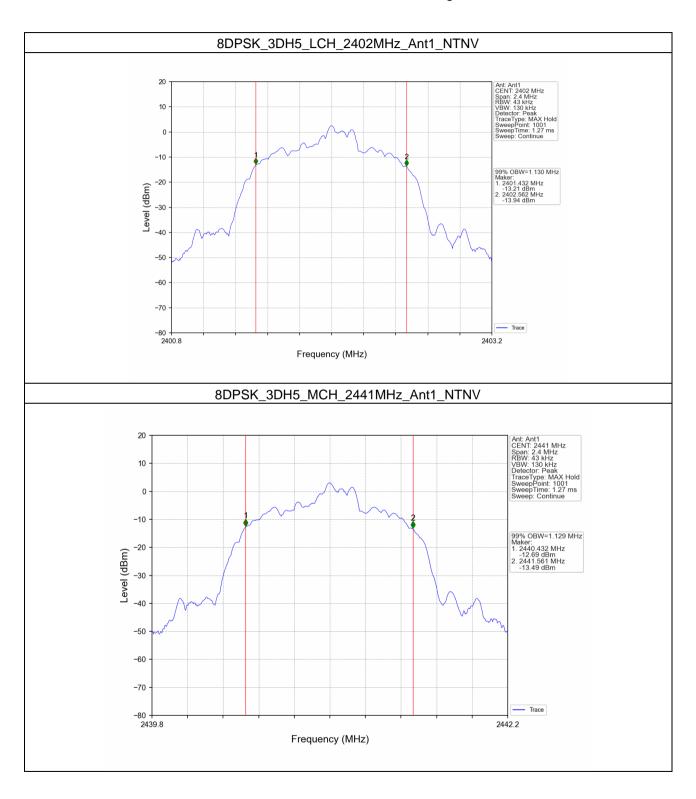
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500140302 Page: 47 of 89





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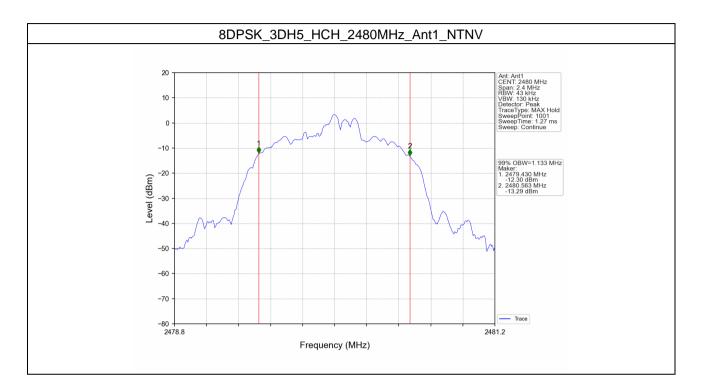
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500140302 Page: 48 of 89





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

Report No.: SZCR230500140302 Page: 49 of 89

1.2 20dB BW

1.2.1 Test Result

Mode	ТΧ	Frequency Packet		ANT	20dB Bandwidth (MHz)	Verdict
wode	Type (MHz) Type ANT		Result	verdict		
		2402	DH5	1	1.040	Pass
GFSK	SISO	2441	DH5	1	1.035	Pass
		2480	DH5	1	1.038	Pass
		2402	2DH5	1	1.204	Pass
Pi/4DQPSK	SISO	2441	2DH5	1	1.209	Pass
		2480	2DH5	1	1.200	Pass
8DPSK S		2402	3DH5	1	1.223	Pass
	SISO	2441	3DH5	1	1.222	Pass
		2480	3DH5	1	1.225	Pass



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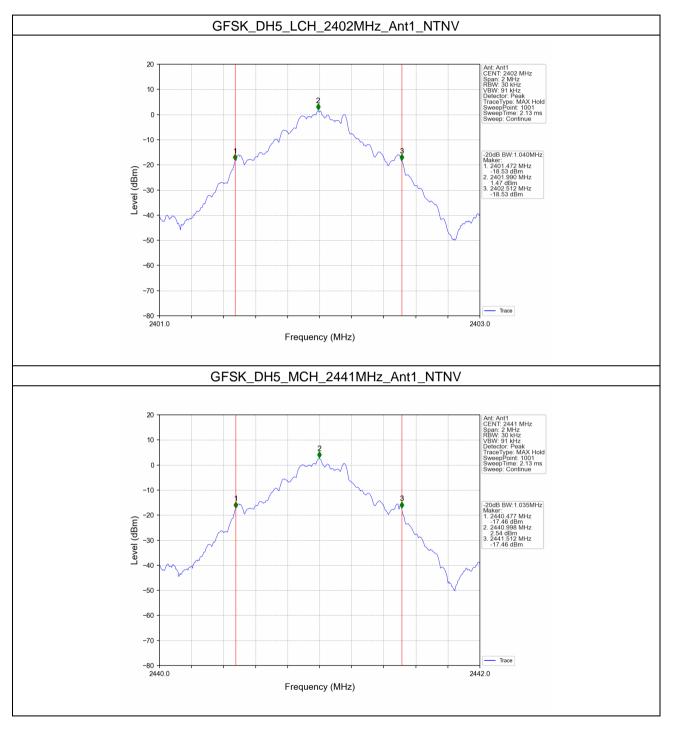
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500140302 Page: 50 of 89

1.2.2 Test Graph





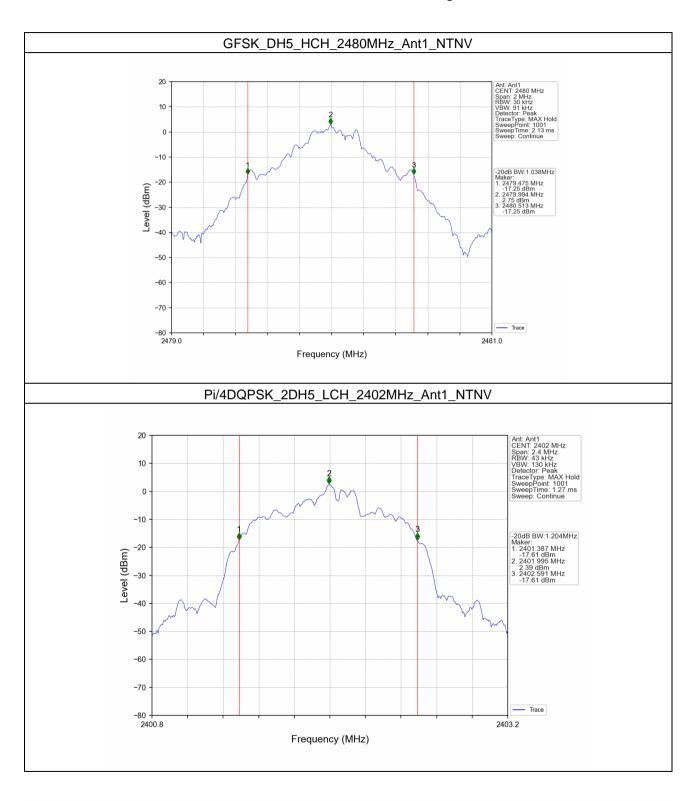
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Report No.: SZCR230500140302 Page: 51 of 89





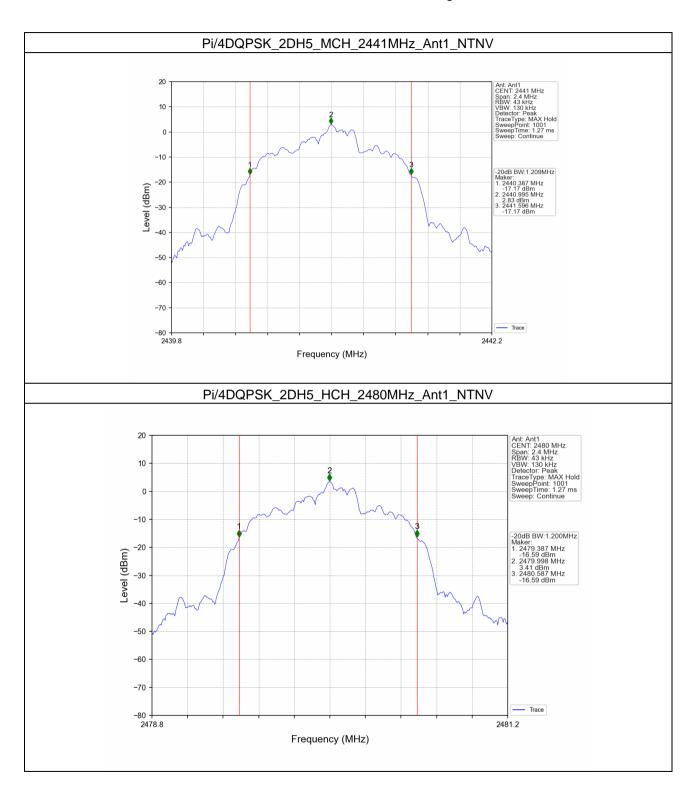
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Report No.: SZCR230500140302 Page: 52 of 89





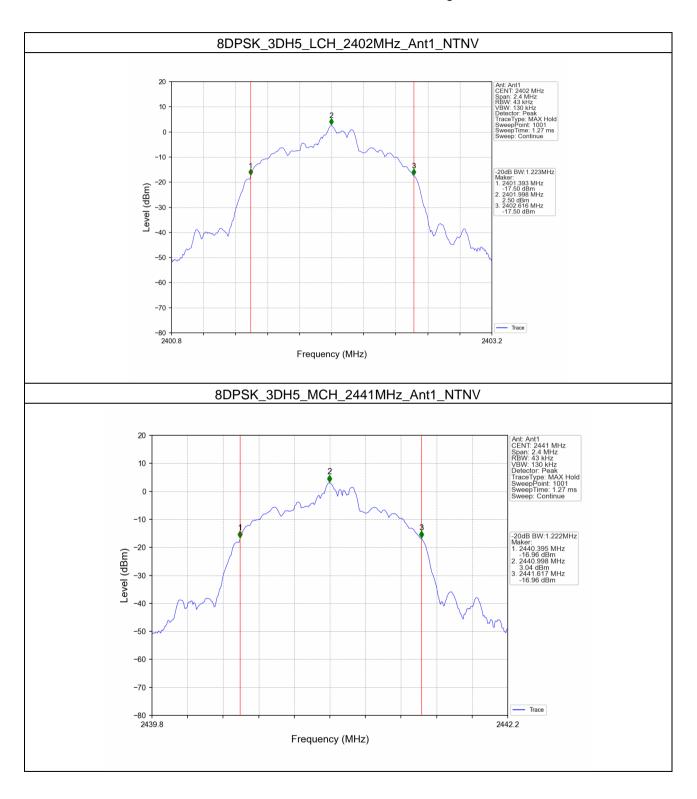
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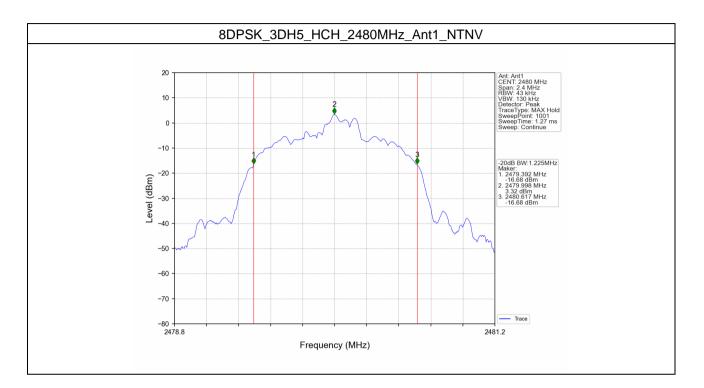
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500140302 Page: 55 of 89

2. Maximum Conducted Output Power

2.1 Power

2.1.1 Test Result

Mode TX		Frequency	Packet	Maximum Peak Cone (dE	Verdict										
	Туре	(MHz)	Туре	ANT1	Limit										
		2402	DH5	6.93	<=20.97	Pass									
GFSK	SISO	2441	DH5	7.20	<=20.97	Pass									
		2480	DH5	7.30	<=20.97	Pass									
		2402	2DH5	6.91	<=20.97	Pass									
Pi/4DQPSK	SISO	2441	2DH5	7.19	<=20.97	Pass									
											2480	2DH5	7.28	<=20.97	Pass
		2402	3DH5	6.93	<=20.97	Pass									
8DPSK	SISO	2441	3DH5	7.19	<=20.97	Pass									
		2480	3DH5	7.29	<=20.97	Pass									



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

Report No.: SZCR230500140302 Page: 56 of 89

3. Carrier Frequency Separation

3.1 Ant1

3.1.1 Test Result

Ant1								
Mode	ТХ Туре	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict	
GFSK	SISO	HOPP	DH5	1.000	1.040	>=0.693	Pass	
Pi/4DQPSK	SISO	HOPP	2DH5	0.998	1.209	>=0.806	Pass	
8DPSK	SISO	HOPP	3DH5	0.982	1.225	>=0.817	Pass	



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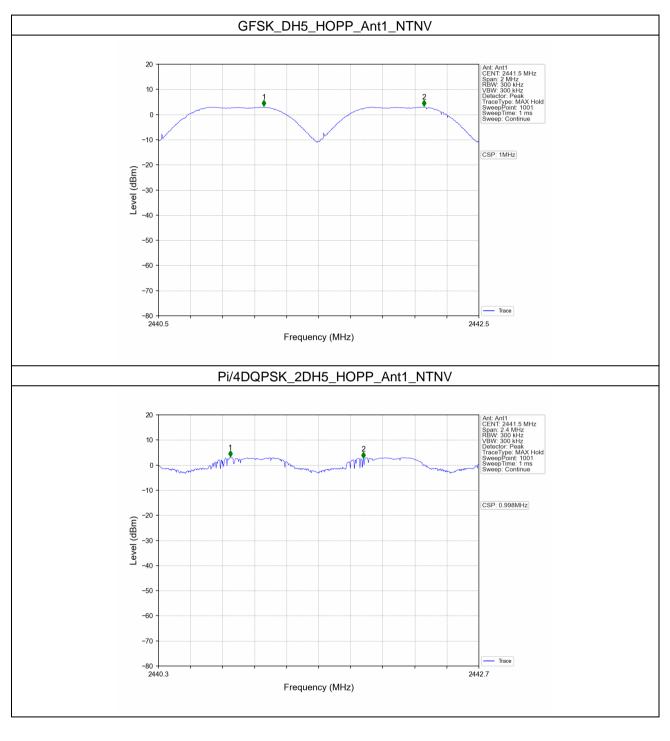
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500140302 Page: 57 of 89

3.1.2 Test Graph





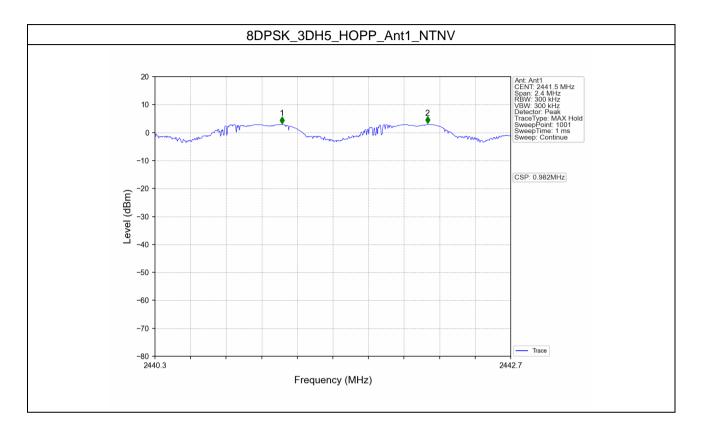
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500140302 Page: 58 of 89





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

Report No.: SZCR230500140302 Page: 59 of 89

4. Number of Hopping Frequencies

4.1 HoppNum

4.1.1 Test Result

Mada	ΤХ	Frequency	Packet	Num of Hoppir	g Frequencies	Verdict
Mode	Туре	(MHz)	Туре	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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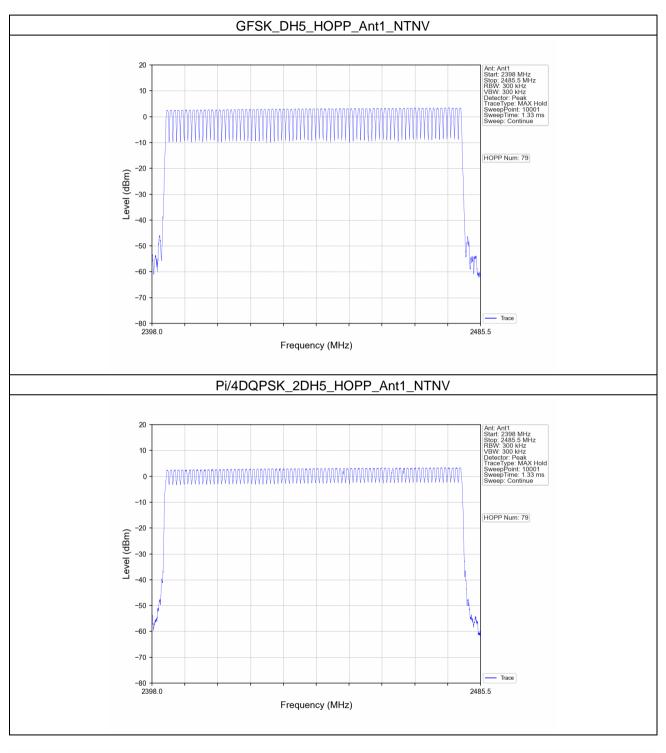
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500140302 Page: 60 of 89

4.1.2 Test Graph





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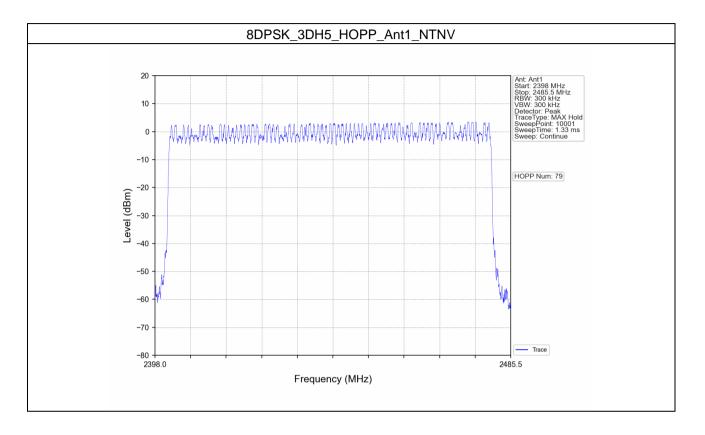
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Report No.: SZCR230500140302 Page: 61 of 89





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

Report No.: SZCR230500140302 Page: 62 of 89

5. Time of Occupancy (Dwell Time)

5.1 Ant1

5.1.1 Test Result

	Ant1									
Mode	ТХ Туре	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict	
			DH1	0.414	31.600	167	69.138	<=400	Pass	
GFSK	GFSK SISO HOP	HOPP	DH3	1.670	31.600	113	188.710	<=400	Pass	
			DH5	2.904	31.600	75	217.800	<=400	Pass	
		ISO HOPP	2DH1	0.424	31.600	169	71.656	<=400	Pass	
Pi/4DQPSK	SISO		2DH3	0.424	31.600	160	67.840	<=400	Pass	
			2DH5	2.910	31.600	78	226.980	<=400	Pass	
		SISO HOPP	3DH1	0.424	31.600	152	64.448	<=400	Pass	
8DPSK SISC	SISO		3DH3	1.660	31.600	100	166.000	<=400	Pass	
			3DH5	2.924	31.600	81	236.844	<=400	Pass	



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Report No.: SZCR230500140302 Page: 63 of 89

5.1.2 Test Graph

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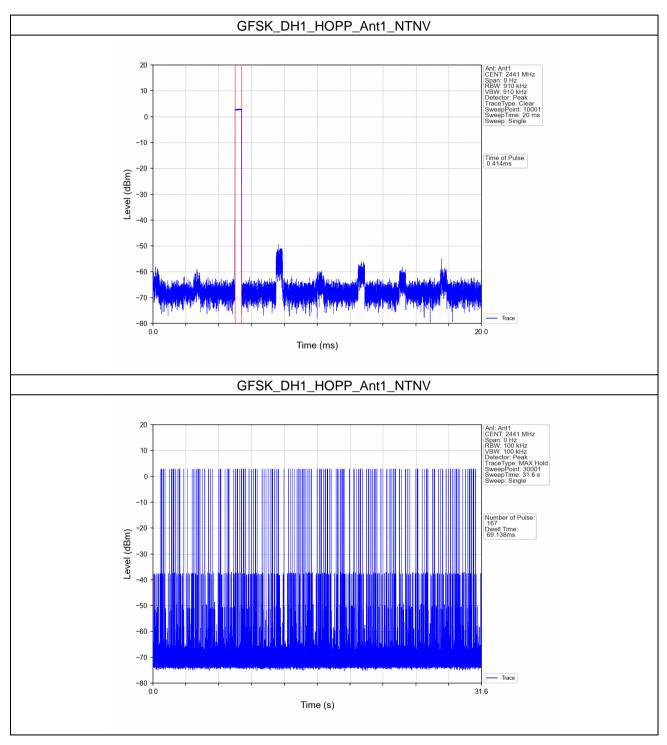
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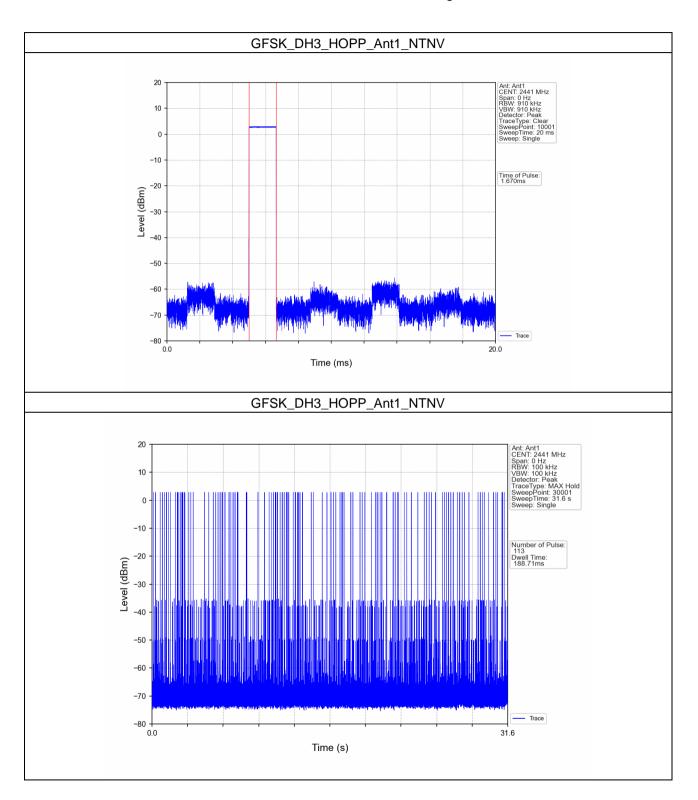
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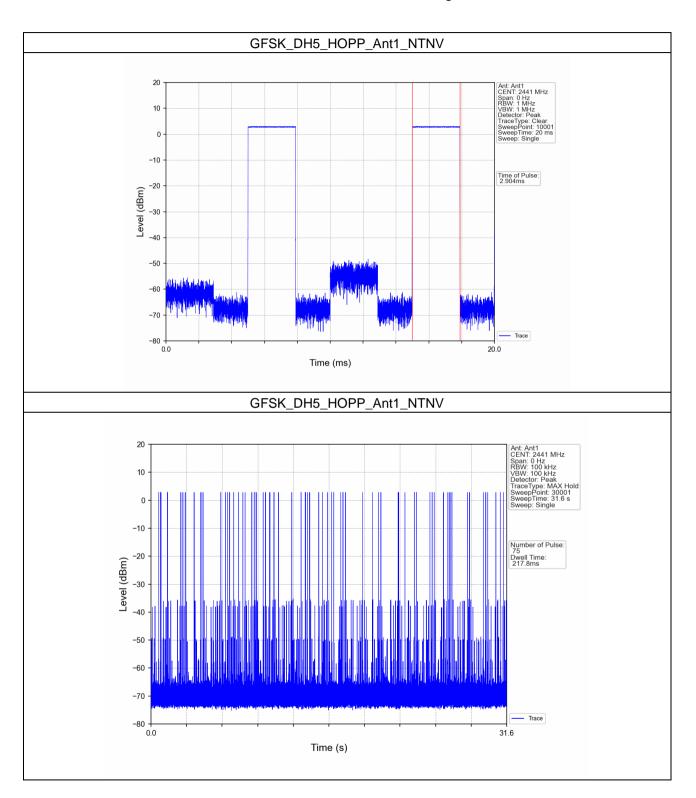
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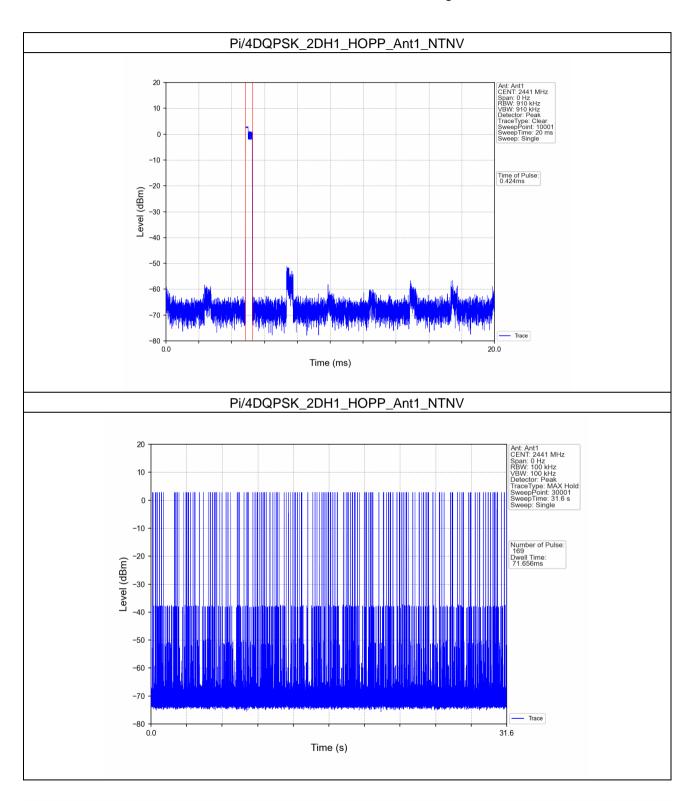
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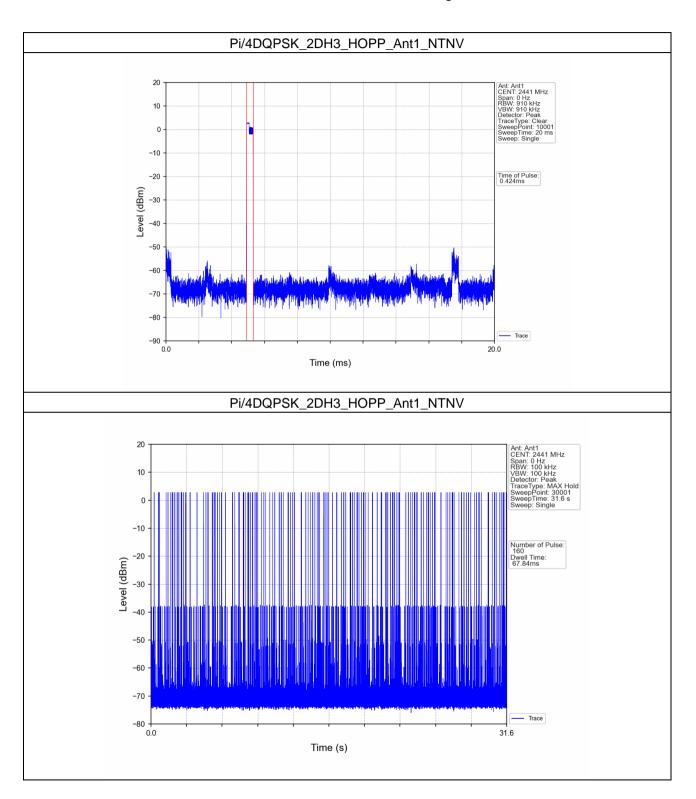
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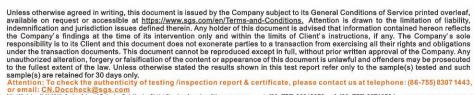
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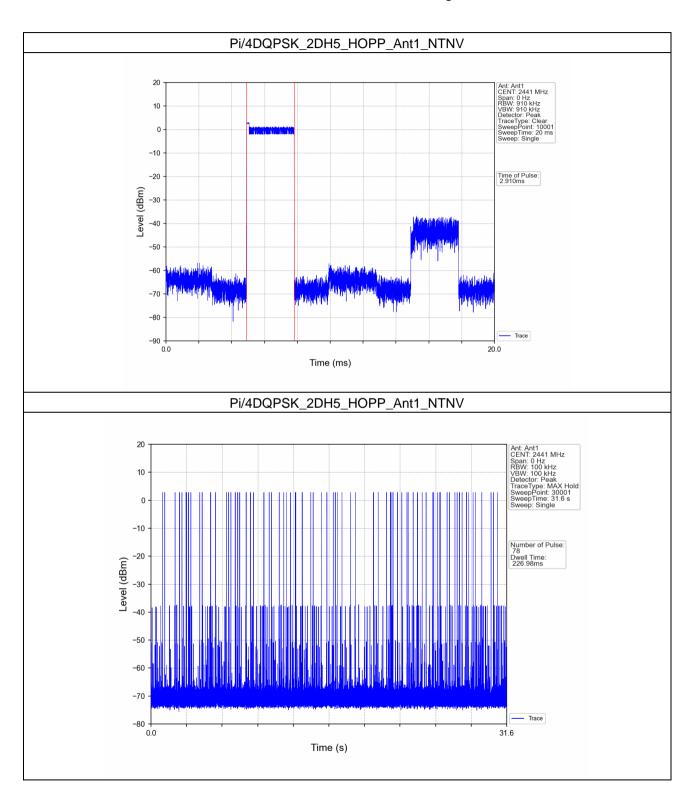
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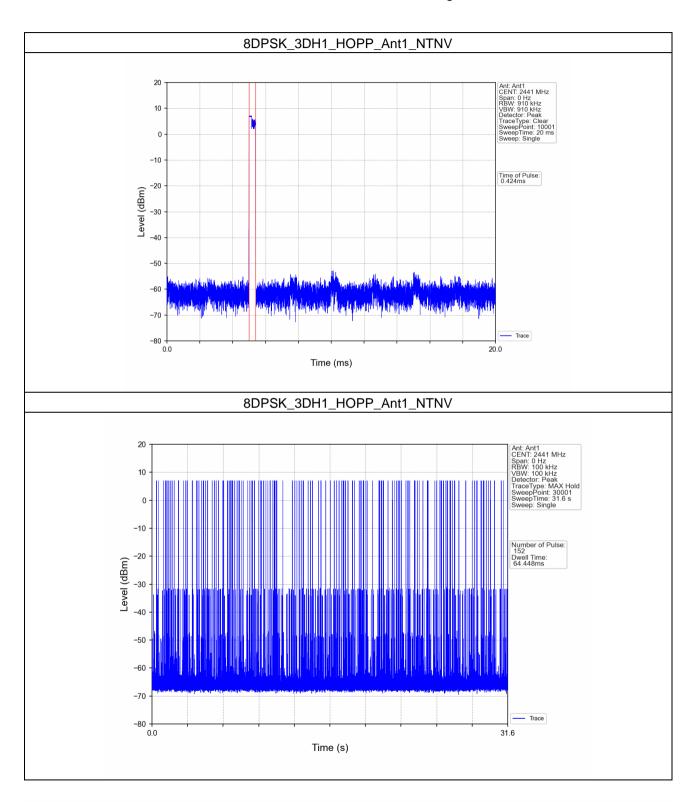
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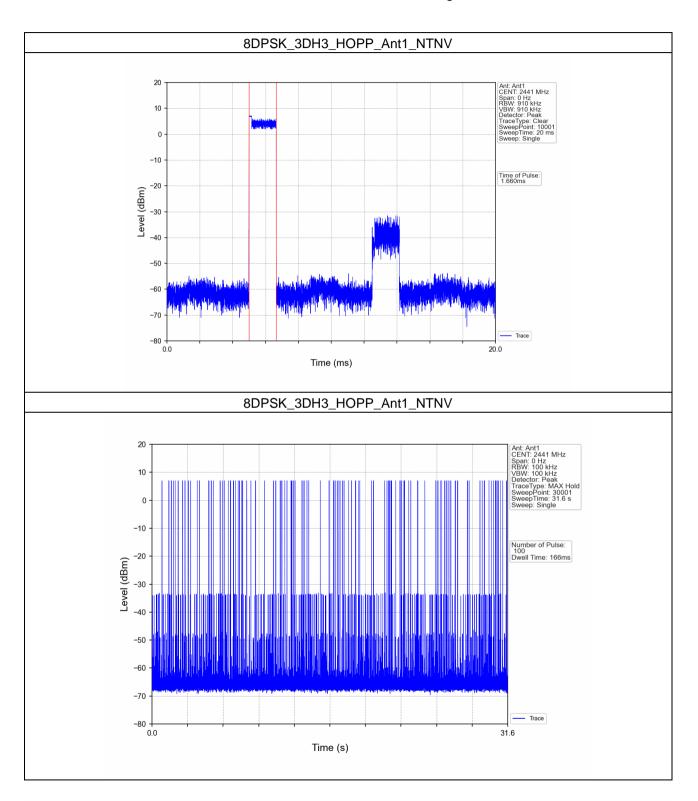


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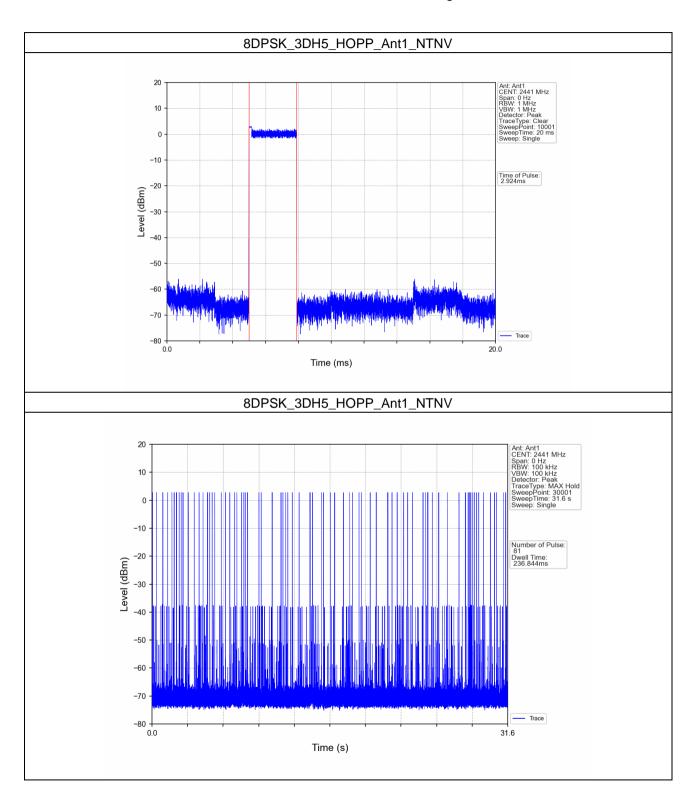
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500140302 Page: 72 of 89

6. Unwanted Emissions In Non-restricted Frequency Bands

6.1 Ref

6.1.1 Test Result

Mode	ТХ Туре	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
		2402	DH5	1	6.84
GFSK	SISO	2441	DH5	1	7.10
		2480	DH5	1	7.20
	SISO	2402	2DH5	1	6.85
Pi/4DQPSK		2441	2DH5	1	7.11
		2480	2DH5	1	7.19
		2402	3DH5	1	6.84
8DPSK	SISO	2441	3DH5	1	7.10
		2480	3DH5	1	7.21



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Report No.: SZCR230500140302 Page: 73 of 89

6.1.2 Test Graph

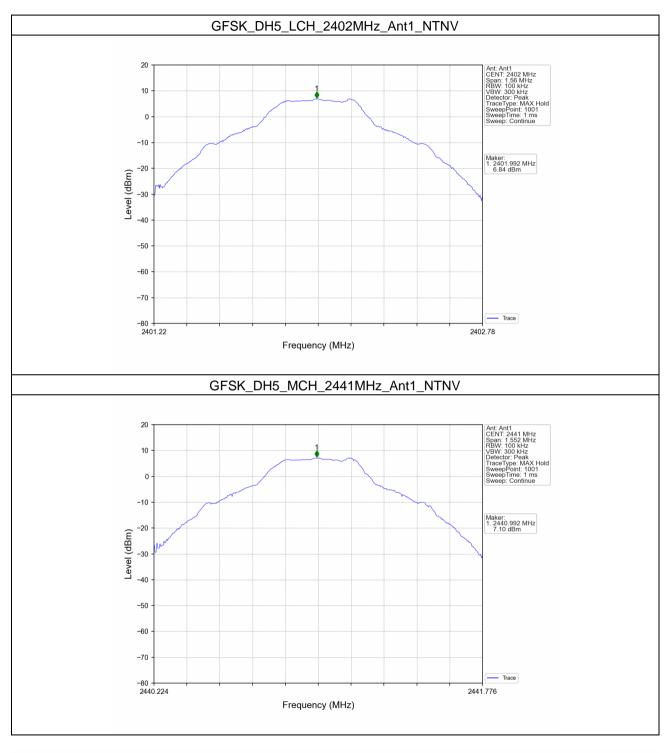
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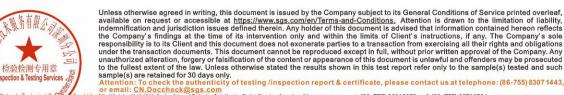
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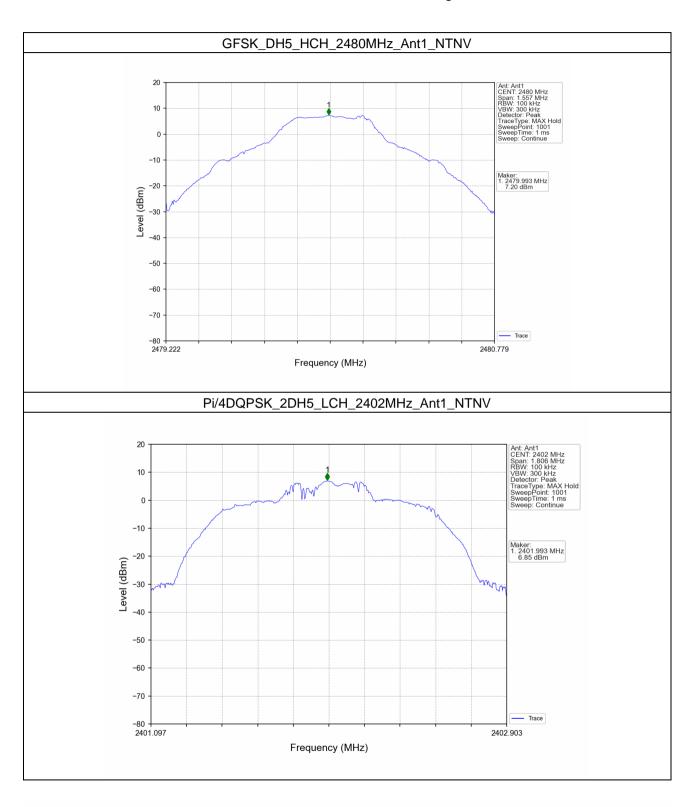


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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500140302 Page: 74 of 89





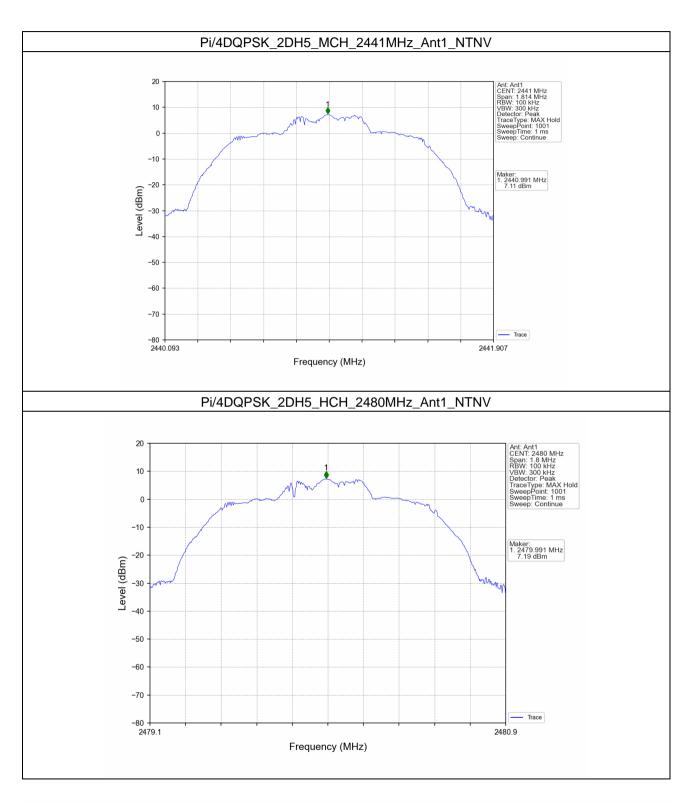
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500140302 Page: 75 of 89





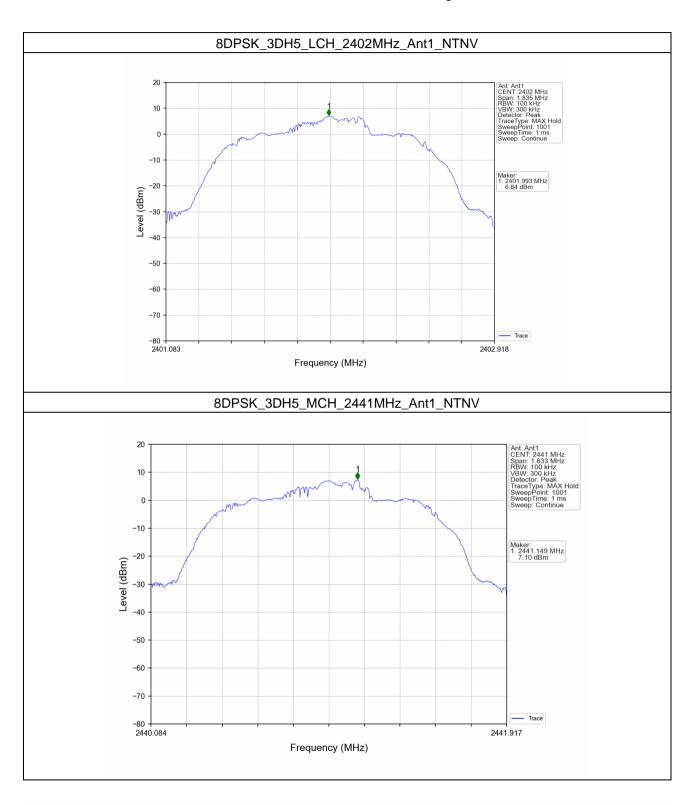
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500140302 Page: 76 of 89





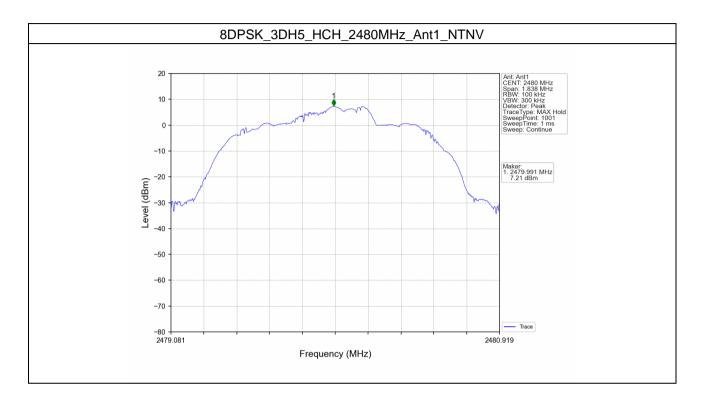
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Report No.: SZCR230500140302 Page: 77 of 89





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

Report No.: SZCR230500140302 Page: 78 of 89

6.2 CSE

6.2.1 Test Result

Mode	ТХ Туре	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	7.20	-12.80	Pass
		2441	DH5	1	7.20	-12.80	Pass
		2480	DH5	1	7.20	-12.80	Pass
		HOPP	DH5	1	7.20	-12.80	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	7.19	-12.81	Pass
		2441	2DH5	1	7.19	-12.81	Pass
		2480	2DH5	1	7.19	-12.81	Pass
		HOPP	2DH5	1	7.19	-12.81	Pass
8DPSK	SISO	2402	3DH5	1	7.21	-12.79	Pass
		2441	3DH5	1	7.21	-12.79	Pass
		2480	3DH5	1	7.21	-12.79	Pass
		HOPP	3DH5	1	7.21	-12.79	Pass



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

Report No.: SZCR230500140302 Page: 79 of 89

6.2.2 Test Graph

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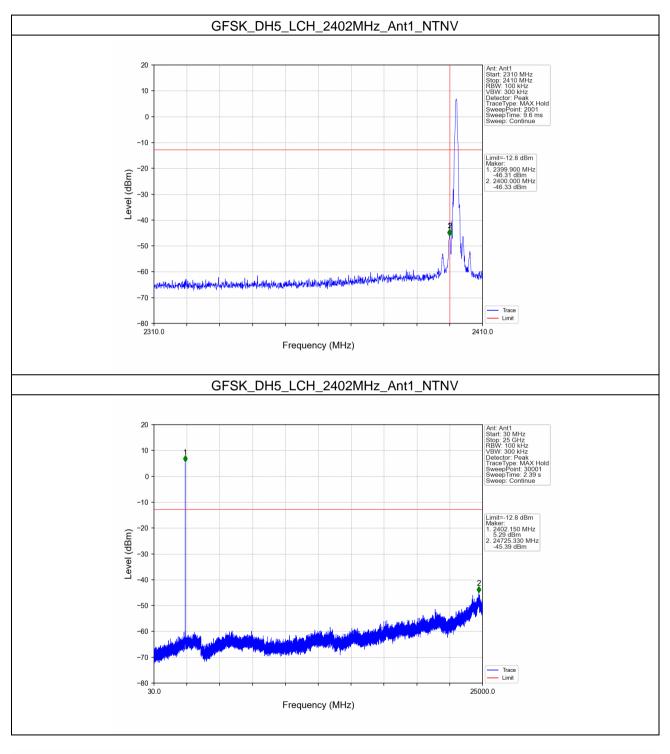
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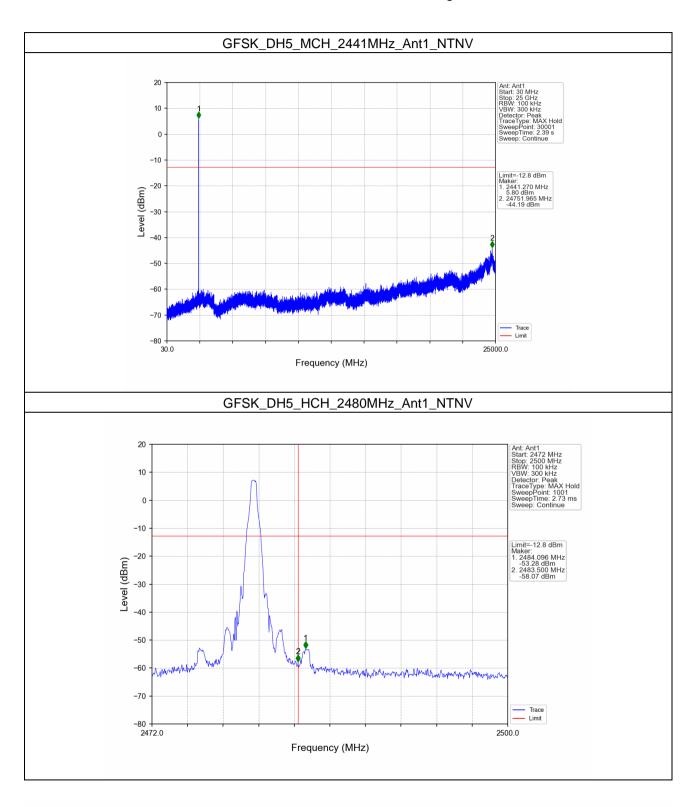


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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500140302 Page: 80 of 89





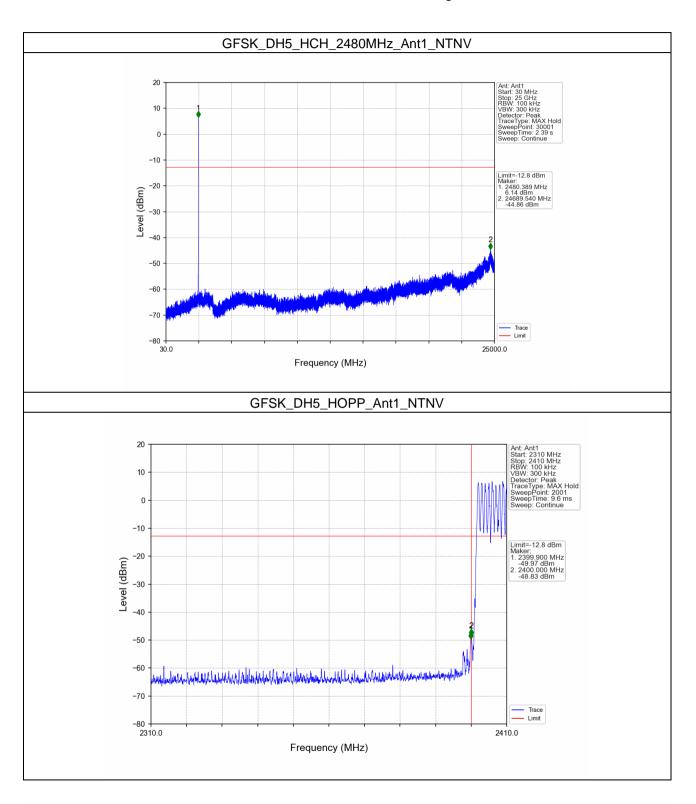
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Report No.: SZCR230500140302 Page: 81 of 89





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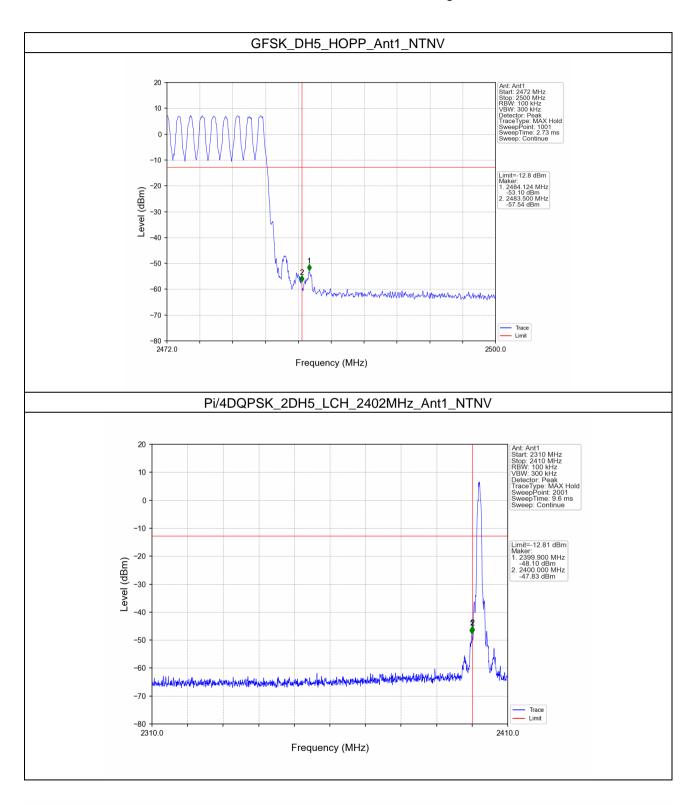
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Report No.: SZCR230500140302 Page: 82 of 89





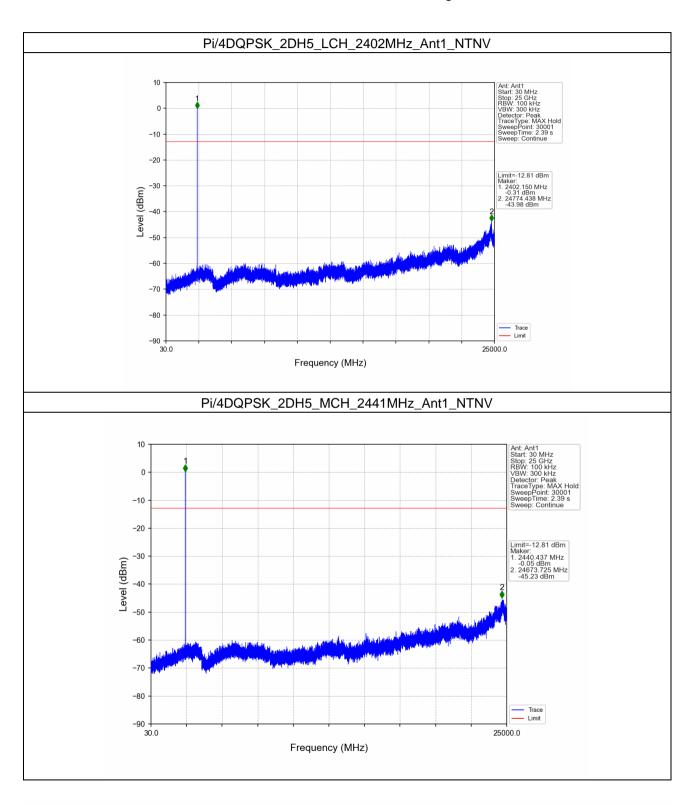
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500140302 Page: 83 of 89





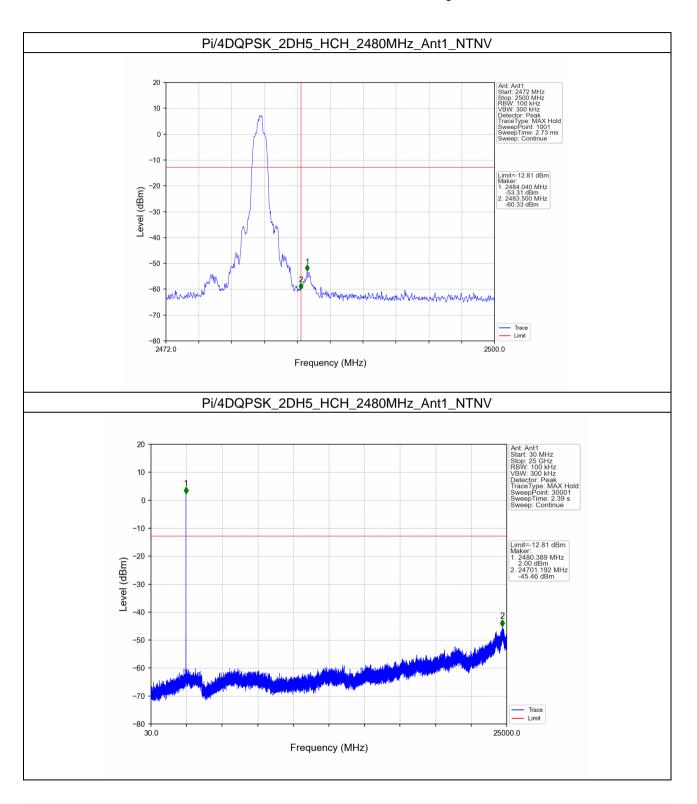
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Report No.: SZCR230500140302 Page: 84 of 89





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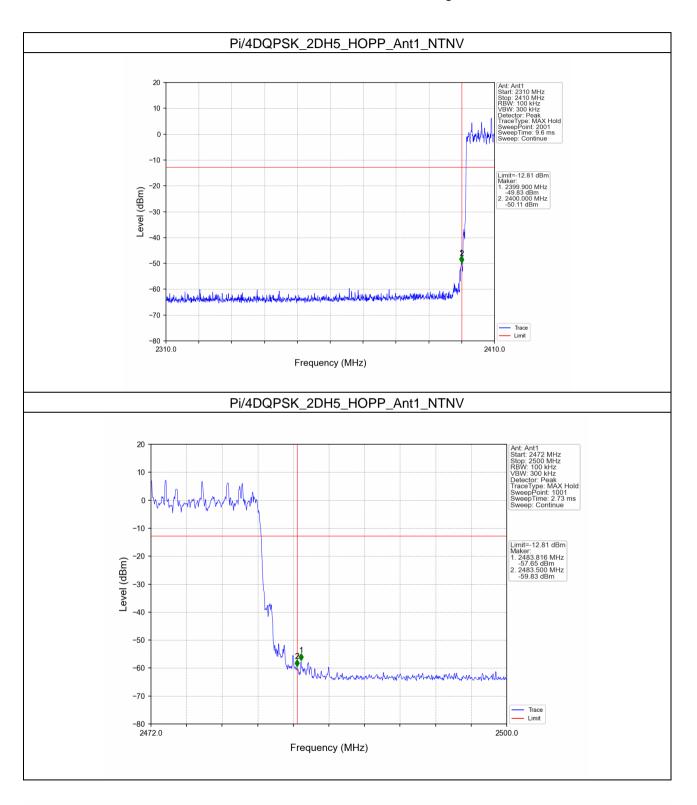
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Report No.: SZCR230500140302 Page: 85 of 89





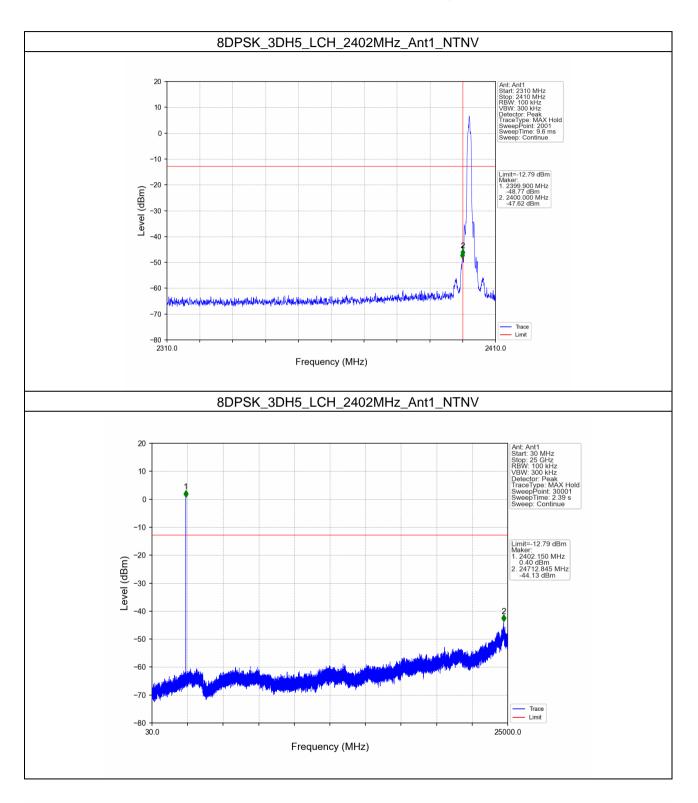
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500140302 Page: 86 of 89





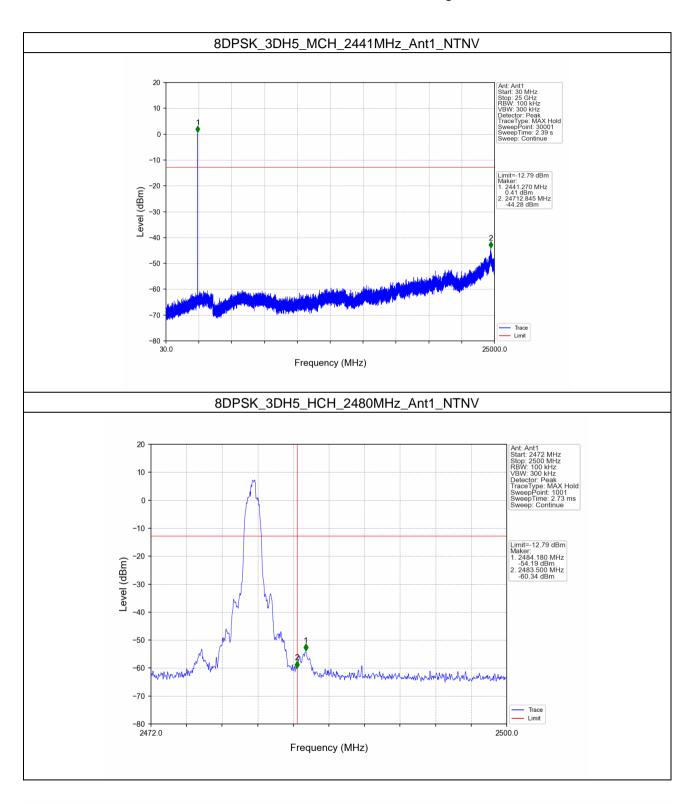
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500140302 Page: 87 of 89





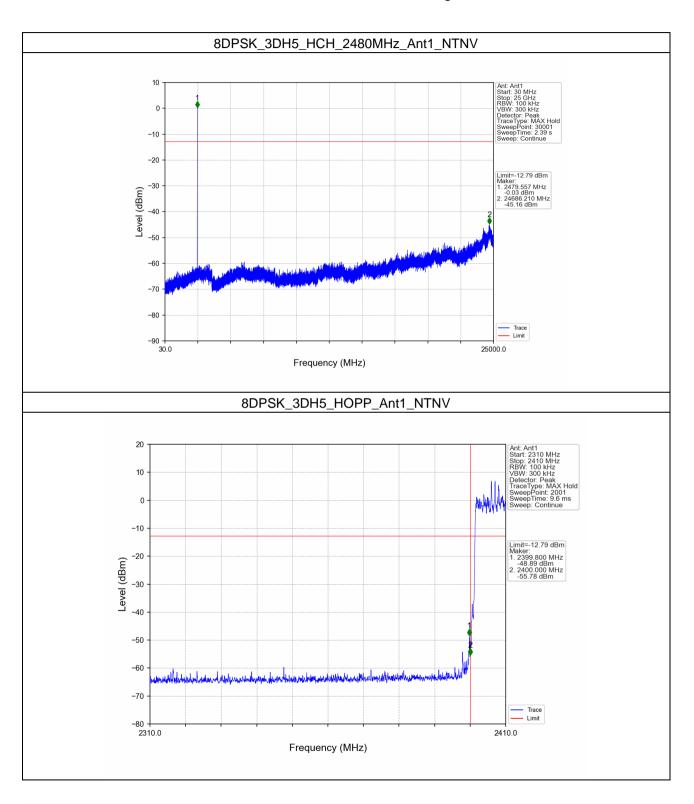
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500140302 Page: 88 of 89





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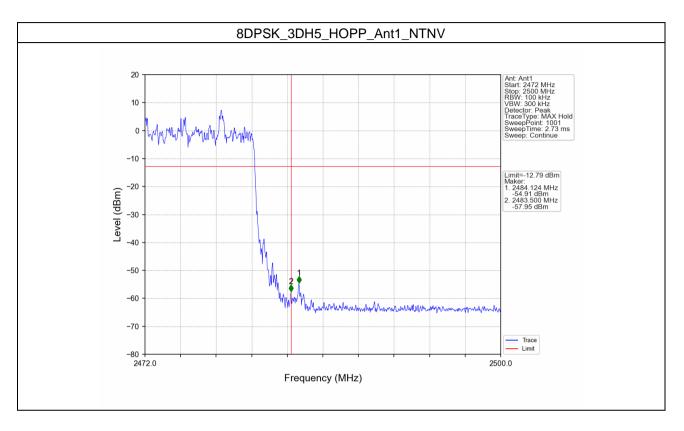
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500140302 Page: 89 of 89



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