



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

Report No.: SZCR230400100902 Page: 1 of 99

# TEST REPORT

Test Result:	Pass*
Date of Issue:	2023-06-05
Date of Test:	2023-04-23 to 2023-05-28
Date of Receipt:	2023-04-10
Standard(s) :	47 CFR Part 15, Subpart C 15.247
FCC ID:	SS3-RC3312303
Trade Mark:	DJI
Model No.:	RC331
EUT Name:	DJI RC 2
Equipment Under Test (EUT	):
Address of Manufacturer:	Lobby of T2, DJI Sky City, No. 53 Xianyuan Road, Xili Community, Xili Street, Nanshan District, Shenzhen, China.
Manufacturer:	SZ DJI TECHNOLOGY CO., LTD.
Address of Applicant:	Lobby of T2, DJI Sky City, No. 53 Xianyuan Road, Xili Community, Xili Street, Nanshan District, Shenzhen, China.
Applicant:	SZ DJI TECHNOLOGY CO., LTD.
Application No.:	SZCR2304001009AT

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

Ceny. XM

Keny Xu EMC Laboratory Manager



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

Report No.: SZCR230400100902 Page: 2 of 99

	Revision Record					
Version	Chapter	Date	Modifier	Remark		
01		2023-06-05		Original		

Authorized for issue by:		
	Darren Yuan	
	Darren Yuan/Project Engineer	
	Eric Fu	
	Eric Fu/Reviewer	



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

Report No.: SZCR230400100902 Page: 3 of 99

#### 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					
Item	Standard	Method	Requirement	Result	
Conducted Emissions at AC Power Line (150kHz-30MHz)		ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass	
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		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	47 CFR Part 15,	ANSI C63.10 (2013) Section 7.8.4	47 CFR Part 15, Subpart C 15.247a(1)(iii)	Pass	
Conducted Band Edges Measurement	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		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		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass	
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass	
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass	



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

Report No.: SZCR230400100902 Page: 4 of 99

# 3 Contents

		Page
1	Cover Page	1
2	Test Summary	
3	Contents	4
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	
	4.7 Abnormalities from Standard Conditions	
~	Equipment List	
5	Equipment List	
6	Radio Spectrum Technical Requirement	12
0		
	6.1 Antenna Requirement	
	6.1.1 Test Requirement:	
	6.1.2 Conclusion	
	6.2 Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence	
	6.2.1 Test Requirement:	
	6.2.2 Conclusion	14
7	Radio Spectrum Matter Test Results	16
	7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)	
	7.1.1 E.U.T. Operation	
	7.1.2 Test Mode Description	
	7.1.3 Test Setup Diagram	
	7.1.4 Measurement Procedure and Data	17
	7.2 Conducted Peak Output Power	20
	7.2.1 E.U.T. Operation	20
	7.2.2 Test Mode Description	20
	7.2.3 Test Setup Diagram	
	7.2.4 Measurement Procedure and Data	21
	7.3 20dB Bandwidth	22
	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 Carrier Frequencies Separation	
	7.4.1 E.U.T. Operation	
	7.4.2 Test Mode Description	23



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

Report No.: SZCR230400100902 Page: 5 of 99

	7.4.3	Test Setup Diagram	.23
	7.4.4	Measurement Procedure and Data	
7.5	5 F	lopping Channel Number	
	7.5.1	E.U.T. Operation	
	7.5.2	Test Mode Description	
	7.5.3	Test Setup Diagram	
	7.5.4	Measurement Procedure and Data	
7.6	6 C	Dwell Time	
	7.6.1	E.U.T. Operation	
	7.6.2	Test Mode Description	
	7.6.3	Test Setup Diagram	
	7.6.4	Measurement Procedure and Data	
7.7	7 C	Conducted Band Edges Measurement	
	7.7.1	E.U.T. Operation	
	7.7.2	Test Mode Description	
	7.7.3	Test Setup Diagram	
	7.7.4	Measurement Procedure and Data	
7.8	в с	Conducted Spurious Emissions	
	7.8.1	E.U.T. Operation	
	7.8.2	Test Mode Description	
	7.8.3	Test Setup Diagram	
	7.8.4	Measurement Procedure and Data	
7.9	) F	Radiated Emissions which fall in the restricted bands	
	7.9.1	E.U.T. Operation	.33
	7.9.2	Test Mode Description	.33
	7.9.3	Test Setup Diagram	.33
	7.9.4	Measurement Procedure and Data	
7.1	10 F	adiated Spurious Emissions Below 1GHz	.39
	7.10.1	E.U.T. Operation	.40
	7.10.2	Test Mode Description	.40
	7.10.3	•	
	7.10.4		
7.1	1 F	adiated Spurious Emissions Above 1GHz	
	7.11.1	E.U.T. Operation	.45
	7.11.2		
	7.11.3	Test Setup Diagram	.45
	7.11.4	Measurement Procedure and Data	.46
8	Test S	etup Photo	.53
9	EUT C	onstructional Details (EUT Photos)	.53
10	Apper	ndix	.54



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

Report No.: SZCR230400100902 Page: 6 of 99

#### **General Information** 4

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

	Powered by Lithium-ion Rechargeable Cell		
	Battery information		
Power Supply:	Model: INR18650-32HE		
	Nominal Voltage: 3.6V DC		
	Capacity: 3100mAh*2		
Cabler	USB Type-C to Type-C cable: 50cm unshielded		
Cable:	USB Type-A to Type-C cable: 50cm unshielded		
Operation Frequency:	2402MHz to 2480MHz		
Bluetooth Version:	V5.2 Dual		
Modulation Type:	GFSK, Pi/4DQPSK, 8DPSK		
Channel Spacing:	1MHz		
Number of Channels:	79		
Antenna Type:	FPC Antenna		
Antenna Gain:	2.5dBi		
	•		

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.
Power Adapter	DJI	PD-65US	N/A



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

Report No.: SZCR230400100902 Page: 7 of 99

#### 4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.0dB (150kHz to 30MHz)
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 Below 1GHz	± 4.5dB
Radiated Spurious Emissions Above 1GHz	± 4.8dB
Remark:	

Remark:

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

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

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



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Report No.: SZCR230400100902 Page: 8 of 99

#### 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.: SZCR230400100902 Page: 9 of 99

#### **Equipment List** 5

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2022-05-14	2025-05-13
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2023-03-20	2024-03-19
Measurement Software	AUDIX	e3 V8.2014-6- 27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2022-07-08	2023-07-07
LISN	Rohde&Schwarz	ENV216	SEM007-01	2022-09-20	2023-09-19
LISN	ETS-LINDGREN	3816/2	SEM007-02	2023-03-20	2024-03-19

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	DC Power Supply Chroma 620		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	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.: SZCR230400100902 Page: 10 of 99

Carrier Frequencies Separation						
Equipment	Manufacturer	Manufacturer Model No. I		Cal Date	Cal Due Date	
DC Power Supply	DC Power Supply Chroma 62012P-80-60 SEM		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	wer Supply Chroma 62012P-80-60		SEM011-11	2022-10-20	2023-10-19	
MXA Signal Analyzer	Aleasurement Software TST PASS TST PASS V2.0	N9020A	SEM004-19	2023-03-21	2024-03-20	
Measurement Software		TST PASS V2.0	N/A	N/A	N/A	
Coaxial Cable		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	

Dwell Time						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
DC Power Supply	r Supply Chroma 62012P-80-60 SEM011-		SEM011-11	2022-10-20	2023-10-19	
MXA Signal Analyzer	A Signal Analyzer KEYSIGHT	KEYSIGHTN9020ASEM004-19TST PASSTST PASS V2.0N/A	2023-03-21	2024-03-20		
Measurement Software	TST PASS		N/A	N/A	N/A	
Coaxial Cable	Coaxial Cable SGS N/	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 6		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.: SZCR230400100902 Page: 11 of 99

Conducted Spurious Emissions						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
DC Power Supply Chroma 62		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	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	

Radiated Emissions wh	Radiated Emissions which fall in the restricted bands						
Equipment Manufacturer Model No. Inventor				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		
10m Semi-Anechoic Chamber	SAEMC		SEM001-03	2021-03-27	2024-03-26	
MXE EMI receiver	E EMI receiver KEYSIGHT		SEM004-16	2022-10-20	2023-10-19	
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2021-10-28	2023-10-27	
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2023-03-31	2024-03-30	
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2021-11-30	2023-11-29	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM029-01	2022-07-08	2023-07-07	



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

Report No.: SZCR230400100902 Page: 12 of 99

Radiated Spurious Emissions Above 1GHz						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
3m Semi-Anechoic Chamber			SEM001-02	2022-04-02	2025-04-01	
Signal Analyzer	Signal Analyzer Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19	
Horn Antenna	Horn Antenna Rohde&Schwarz	HF907	SEM003-07	2022-07-24	2024-07-23	
Microwave system amplifier		83017A	SEM005-25	2022-09-21	2023-09-20	
Measurement Software	easurement 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	

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.: SZCR230400100902 Page: 13 of 99

# 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

#### 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 2.5dBi.

Antenna location: Refer to internal photo.



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Report No.: SZCR230400100902 Page: 14 of 99

# 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.: SZCR230400100902 Page: 15 of 99

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.: SZCR230400100902 Page: 16 of 99

## 7 Radio Spectrum Matter Test Results

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

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

Limit:

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

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

Operating Environ	ment:					
Temperature:	23.2 °C	Humidity:	50.5 % RH	Atmospheric Pressure:	1015	mbar

#### 7.1.2 Test Mode Description

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



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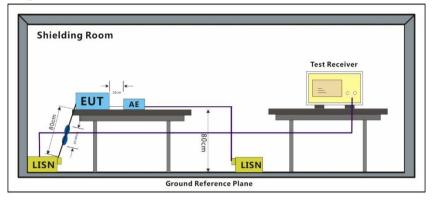
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400100902 Page: 17 of 99

#### 7.1.3 Test Setup Diagram



#### 7.1.4 Measurement Procedure and Data

1) The mains terminal disturbance voltage test was conducted in a shielded room.

2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50µH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.

3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.

4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.

5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

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



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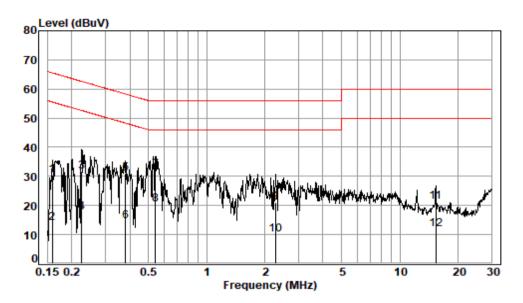
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400100902 Page: 18 of 99



Test Mode: 01; Line: Live line

Site : Shielding Room Condition: Line Job No. : 01009AT Test mode: 01

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1590	0.03	9.76	20.60	30.39	65.52	-35.13	QP
2	0.1590	0.03	9.76	4.30	14.09	55.52	-41.43	Average
3	0.2256	0.04	9.76	21.85	31.65	62.61	-30.96	QP
4	0.2256	0.04	9.76	7.80	17.60	52.61	-35.01	Average
5	0.3811	0.05	9.76	21.24	31.05	58.25	-27.20	QP
6	0.3811	0.05	9.76	4.70	14.51	48.25	-33.74	Average
7*	0.5436	0.06	9.76	22.30	32.12	56.00	-23.88	QP
8 *	0.5436	0.06	9.76	10.68	20.50	46.00	-25.50	Average
9	2.2726	0.11	9.83	11.04	20.98	56.00	-35.02	QP
10	2.2726	0.11	9.83	0.16	10.10	46.00	-35.90	Average
11	15.3883	0.14	10.60	10.51	21.25	60.00	-38.75	QP
12	15.3883	0.14	10.60	1.05	11.79	50.00	-38.21	Average



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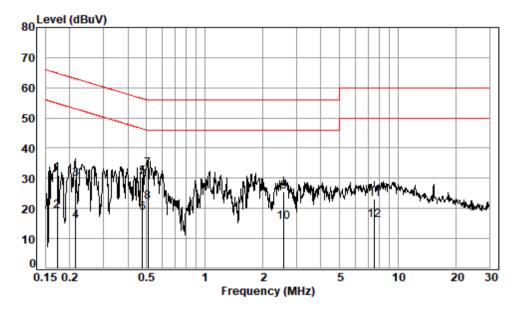
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400100902 Page: 19 of 99





Site :	Shielding	Room
Condition:	Neutral	
Job No. :	01009AT	
Test mode:	01	

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
-	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1731	0.03	9.73	21.81	31.57	64.81	-33.24	QP
2	0.1731	0.03	9.73	9.29	19.05	54.81	-35.76	Average
3	0.2151	0.04	9.73	20.12	29.89	63.01	-33.12	QP
4	0.2151	0.04	9.73	5.92	15.69	53.01	-37.32	Average
5	0.4761	0.05	9.74	20.63	30.42	56.41	-25.99	QP
6	0.4761	0.05	9.74	8.87	18.66	46.41	-27.75	Average
7*	0.5074	0.06	9.74	23.40	33.20	56.00	-22.80	QP
8 *	0.5074	0.06	9.74	12.45	22.25	46.00	-23.75	Average
9	2.5671	0.12	9.81	15.76	25.69	56.00	-30.31	QP
10	2.5671	0.12	9.81	5.59	15.52	46.00	-30.48	Average
11	7.5658	0.19	10.10	12.92	23.21	60.00	-36.79	QP
12	7.5658	0.19	10.10	5.80	16.09	50.00	-33.91	Average



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

Report No.: SZCR230400100902 Page: 20 of 99

#### 7.2 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
	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

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

Operating Enviro	nment:					
Temperature:	28.0 °C	Humidity:	42.0 % RH	Atmospheric Pressure:	1007	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, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.



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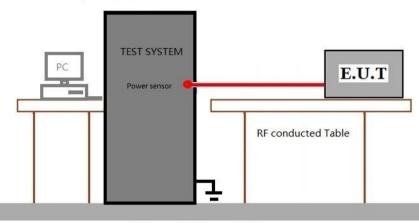
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400100902 Page: 21 of 99

#### 7.2.3 Test Setup Diagram



Ground Reference Plane

#### 7.2.4 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.: SZCR230400100902 Page: 22 of 99

#### 7.3 20dB Bandwidth

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

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

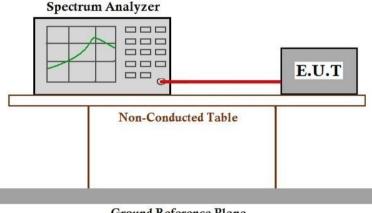
**Operating Environment:** 

Temperature: 28.0 °C Humidity: 42.0 % RH Atmospheric Pressure: 1007 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



**Ground Reference Plane** 

#### 7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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

Report No.: SZCR230400100902 Page: 23 of 99

### 7.4 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.

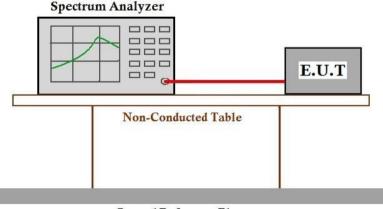
#### 7.4.1 E.U.T. Operation

Operating Enviro	onment:				
Temperature:	28.0 °C	Humidity:	42.0 % RH	Atmospheric Pressure: 1007 m	ıbar

#### 7.4.2 Test Mode Description

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

#### 7.4.3 Test Setup Diagram



**Ground Reference Plane** 

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#### 7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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

Report No.: SZCR230400100902 Page: 24 of 99

#### 7.5 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)
902-928	50 for 20dB bandwidth <250kHz
902-928	25 for 20dB bandwidth ≥250kHz
2400-2483.5	15
5725-5850	75

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

Operating	Environment:
-----------	--------------

Temperature:	28.0 °C	Humidity:	42.0 % RH	Atmospheric Pressure:	1007	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, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.



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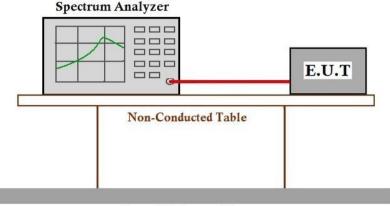
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400100902 Page: 25 of 99

#### 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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Report No.: SZCR230400100902 Page: 26 of 99

#### 7.6 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
902-928	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

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

Operating Environ	ment:					
Temperature:	28.0 °C	Humidity:	42.0 % RH	Atmospheric Pressure:	1007	mbar

#### 7.6.2 Test Mode Description

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



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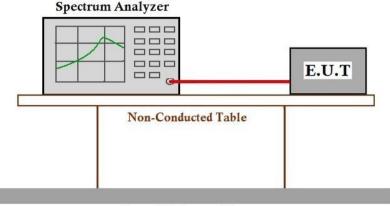
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400100902 Page: 27 of 99

#### 7.6.3 Test Setup Diagram



**Ground Reference Plane** 

#### 7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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Report No.: SZCR230400100902 Page: 28 of 99

### 7.7 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).

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

**Operating Environment:** 

Temperature:	28.0 °C	Humidity:	42.0 % RH	Atmospheric Pressure:	1007	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.
Final test	02	TX_Hop mode_Keep the EUT in frequency hopping mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

#### 7.7.2 Test Mode Description



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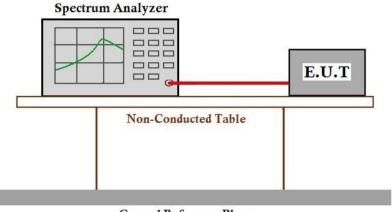
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400100902 Page: 29 of 99

#### 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.: SZCR230400100902 Page: 30 of 99

### 7.8 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).

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

**Operating Environment:** 

Temperature:	28.0 °C	Humidity:	42.0 % RH	Atmospheric Pressure:	1007	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.

#### 7.8.2 Test Mode Description



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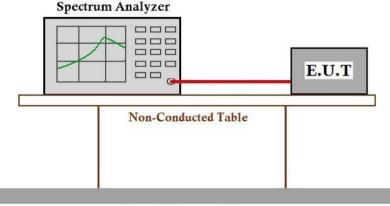
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400100902 Page: 31 of 99

#### 7.8.3 Test Setup Diagram



**Ground Reference Plane** 

#### 7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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

Report No.: SZCR230400100902 Page: 32 of 99

### 7.9 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

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.



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

Report No.: SZCR230400100902 Page: 33 of 99

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

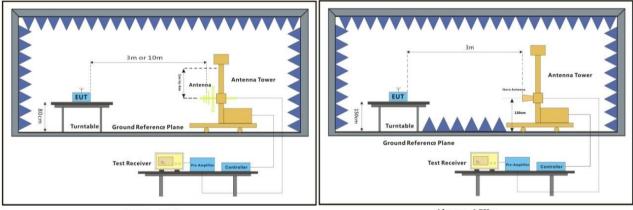
**Operating Environment:** 

Temperature: 23	8.1 °C Ⅰ	Humidity:	58.9 % RH	Atmospheric Pressure:	1010	mbar
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#### 7.9.2 Test Mode Description

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

#### 7.9.3 Test Setup Diagram



30MHz-1GHz

Above 1GHz



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

Report No.: SZCR230400100902 Page: 34 of 99

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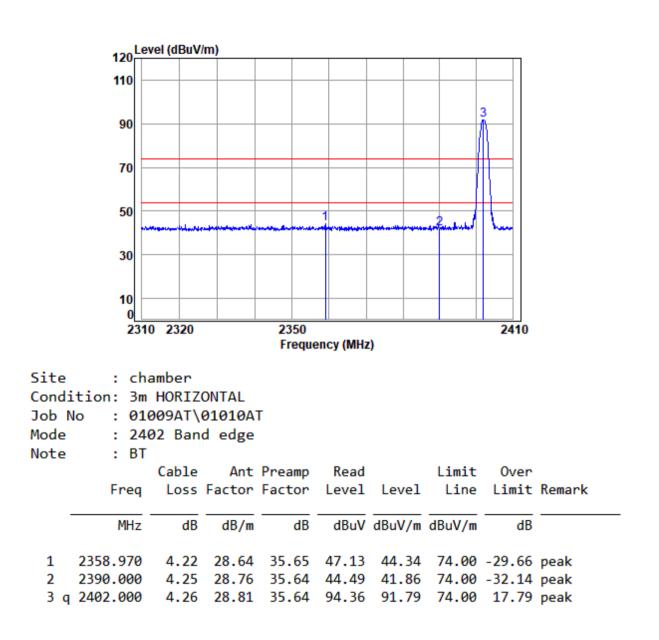
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400100902 Page: 35 of 99

Test Mode: 01; Polarity: Horizontal; Modulation: GFSK; Channel: Low





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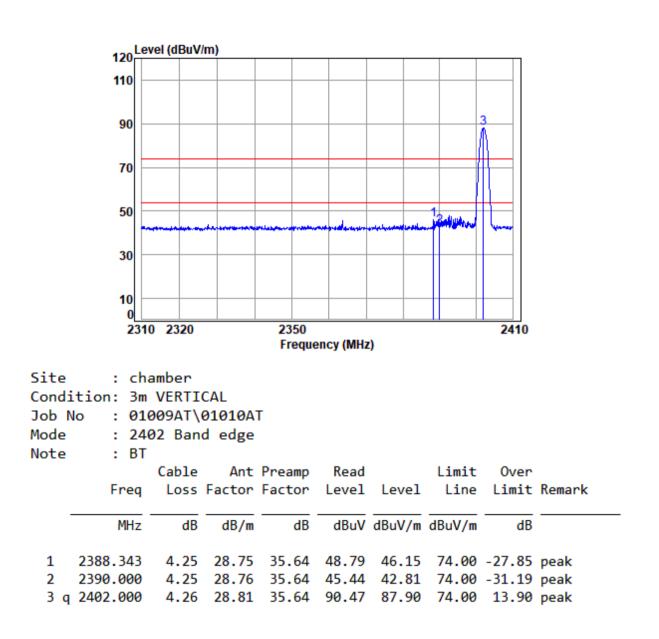
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400100902 Page: 36 of 99

Test Mode: 01; Polarity: Vertical; Modulation: GFSK; Channel: Low





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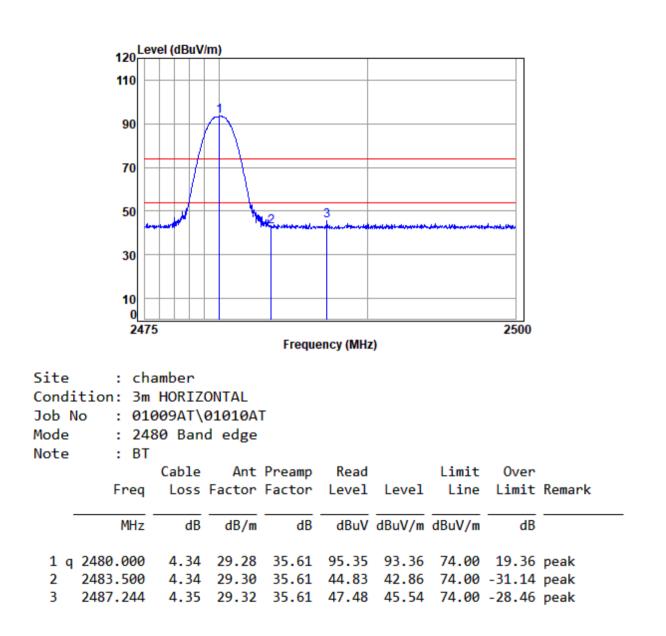
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400100902 Page: 37 of 99

Test Mode: 01; Polarity: Horizontal; Modulation: GFSK; Channel: High





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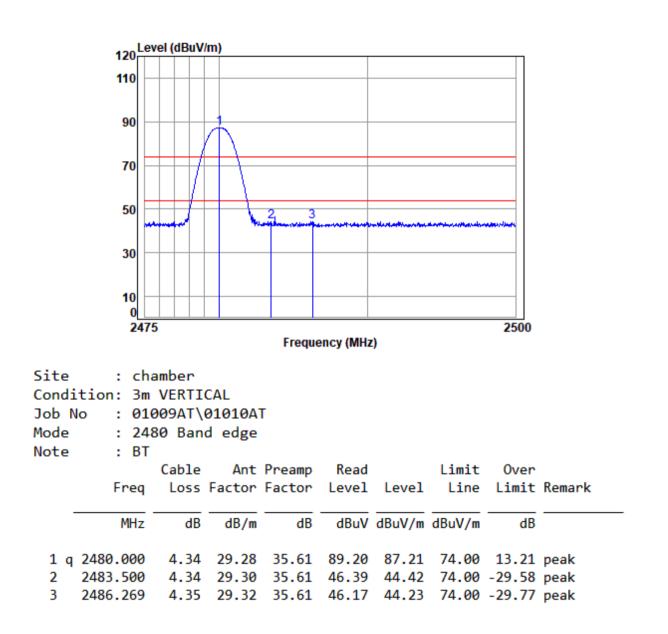
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400100902 Page: 38 of 99

Test Mode: 01; Polarity: Vertical; Modulation: GFSK; Channel: High





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

Report No.: SZCR230400100902 Page: 39 of 99

#### 7.10 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

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



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

Report No.: SZCR230400100902 Page: 40 of 99

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

Operating Environment:

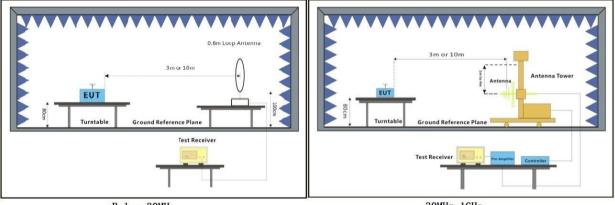
Temperature: 23.2 °C Humidity: 50.5 % RH Atmospheric

Atmospheric Pressure: 1015 mbar

#### 7.10.2 Test Mode Description

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

#### 7.10.3 Test Setup Diagram



Below 30MHz

30MHz-1GHz



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

Report No.: SZCR230400100902 Page: 41 of 99

#### 7.10.4 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.

3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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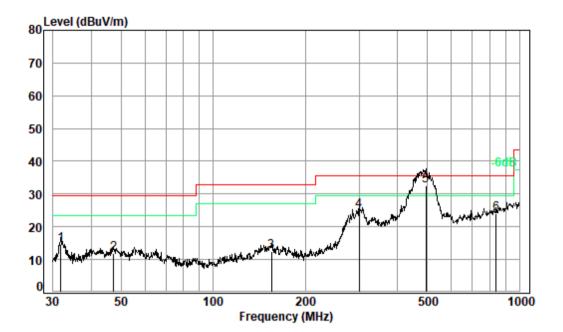
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400100902 Page: 42 of 99

Test Mode: 01; Polarity: Horizontal; Modulation: GFSK; Channel: Middle



Condition: 10m HORIZONTAL Job No. : 01009AT Test Mode: 01

			Ant						
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
-	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	31.843	30.19	16.26	0.67	32.46	14.66	29.50	-14.84	QP
2	47.326	26.45	17.25	0.61	32.41	11.90	29.50	-17.60	QP
3	154.821	26.01	17.82	1.03	32.40	12.46	33.00	-20.54	QP
4	299.316	38.15	17.61	1.44	32.40	24.80	35.60	-10.80	QP
5 pp	494.199	41.44	21.81	1.84	32.49	32.60	35.60	-3.00	QP
6	839.182	26.89	26.80	2.37	32.06	24.00	35.60	-11.60	QP



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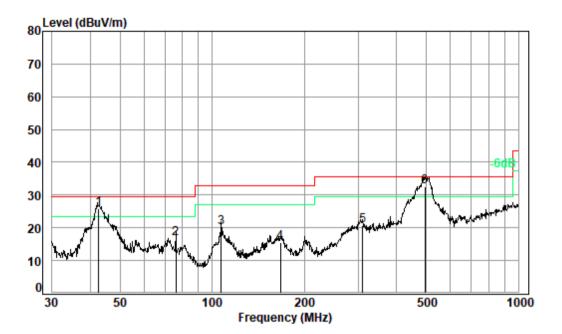
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400100902 Page: 43 of 99

Test Mode: 01; Polarity: Vertical; Modulation: GFSK; Channel: Middle



Condition: 10m VERTICAL Job No. : 01009AT Test Mode: 01

	Enor		Ant Factor						Romank
	rreq	Level	ractor	LUSS	ractor	Level	LTHE	LIMIC	Nellidi K
_	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	42.600	40.32	17.24	0.60	32.42	25.74	29.50	-3.76	QP
2	76.244	34.48	13.92	0.80	32.40	16.80	29.50	-12.70	QP
3	107.134	37.19	14.28	0.86	32.40	19.93	33.00	-13.07	QP
4	167.237	29.83	16.92	1.07	32.40	15.42	33.00	-17.58	QP
5	309.998	33.60	17.92	1.46	32.40	20.58	35.60	-15.02	QP
6 pp	494.199	41.33	21.81	1.84	32.49	32.49	35.60	-3.11	QP



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

Report No.: SZCR230400100902 Page: 44 of 99

The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

 $L_3 / L_{10} = D_{10} / D_3$ 

Note:

L3: Level @ 3m distance. Unit: uV/m;

L10: Level @ 10m distance. Unit: uV/m;

D3: 3m distance. Unit: m

D<sub>10</sub>: 10m distance. Unit: m

The level at 3m test distance is below:

Frequency (MHz)	Level @ 10m (dBuV/m)	Level @ 10m (uV/m)	Level @ 3m (uV/m)	Level @ 3m (dBuV/m)	Limit @ 3m (dBuV/m)	Margin (dB)	Ant. Polarization
31.843	14.66	5.41	18.03	25.12	40	-14.88	Н
47.326	11.90	3.94	13.12	22.36	40	-17.64	Н
154.821	12.46	4.20	13.99	22.92	43.5	-20.58	Н
299.316	24.80	17.38	57.93	35.26	46	-10.74	Н
494.199	32.60	42.66	142.19	43.06	46	-2.94	Н
839.182	24.00	15.85	52.83	34.46	46	-11.54	Н
42.600	25.74	19.36	64.55	36.20	40	-3.80	V
76.244	16.80	6.92	23.06	27.26	40	-12.74	V
107.134	19.93	9.92	33.07	30.39	43.5	-13.11	V
167.237	15.42	5.90	19.67	25.88	43.5	-17.62	V
309.998	20.58	10.69	35.64	31.04	46	-14.96	V
494.199	32.49	42.12	140.40	42.95	46	-3.05	V



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

Report No.: SZCR230400100902 Page: 45 of 99

#### 7.11 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

Limit:

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

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

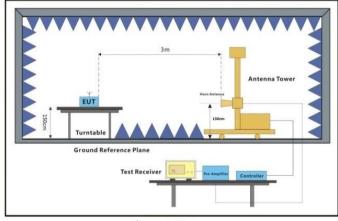
**Operating Environment:** 

Temperature:	23.1 °C	Humidity:	58.8 % RH	Atmospheric Pressure:	1010	mbar
1	-			I		

#### 7.11.2 Test Mode Description

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

#### 7.11.3 Test Setup Diagram



Above 1GHz



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

Report No.: SZCR230400100902 Page: 46 of 99

#### 7.11.4 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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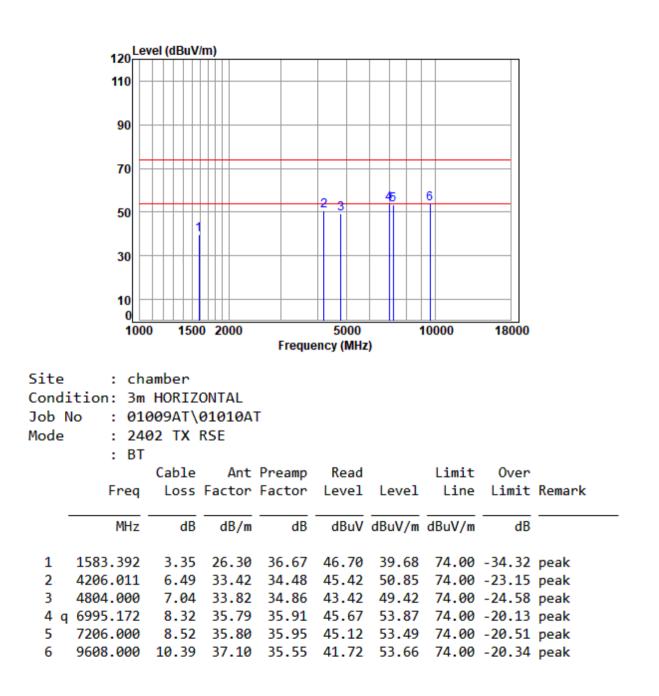
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400100902 Page: 47 of 99

Test Mode: 01; Polarity: Horizontal; Modulation: GFSK; Channel: Low





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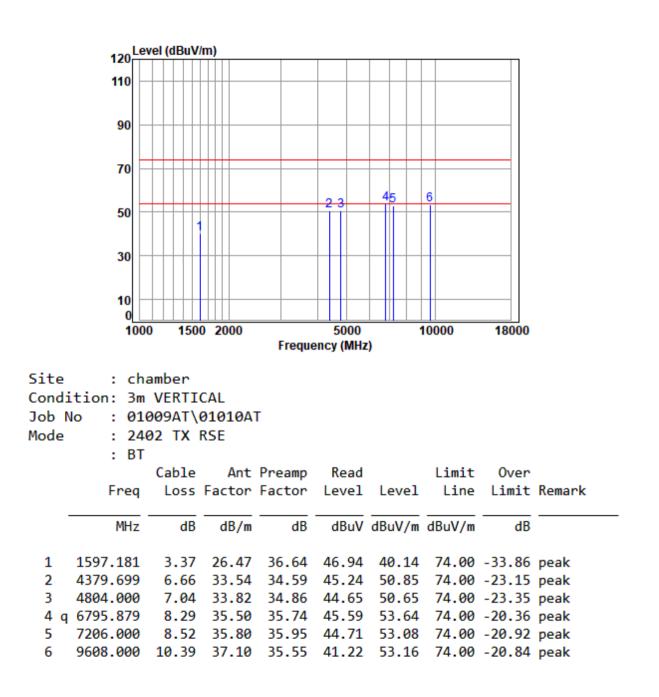
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400100902 Page: 48 of 99

Test Mode: 01; Polarity: Vertical; Modulation: GFSK; Channel: Low





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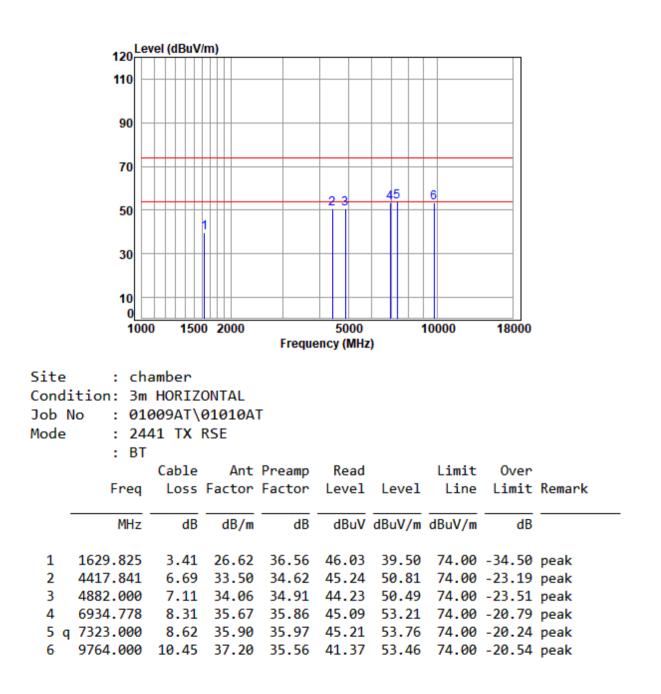
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400100902 Page: 49 of 99

Test Mode: 01; Polarity: Horizontal; Modulation: GFSK; Channel: middle





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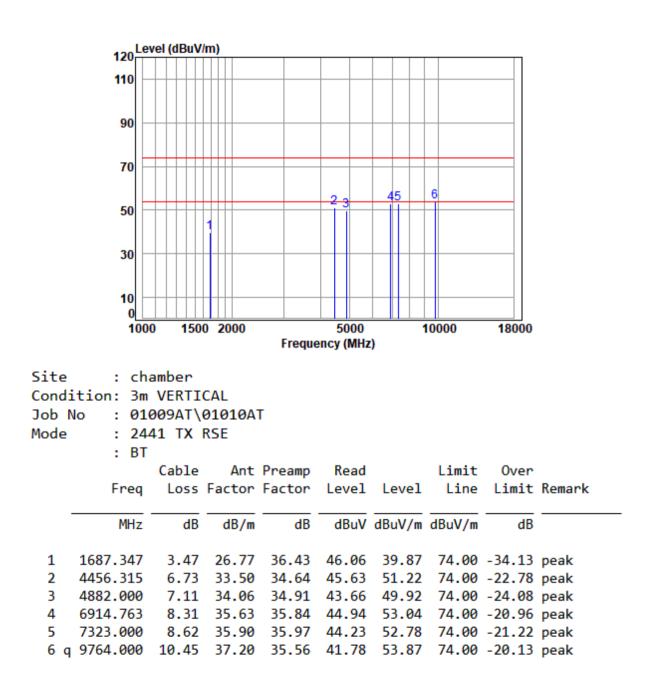
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400100902 Page: 50 of 99

Test Mode: 01; Polarity: Vertical; Modulation: GFSK; Channel: middle





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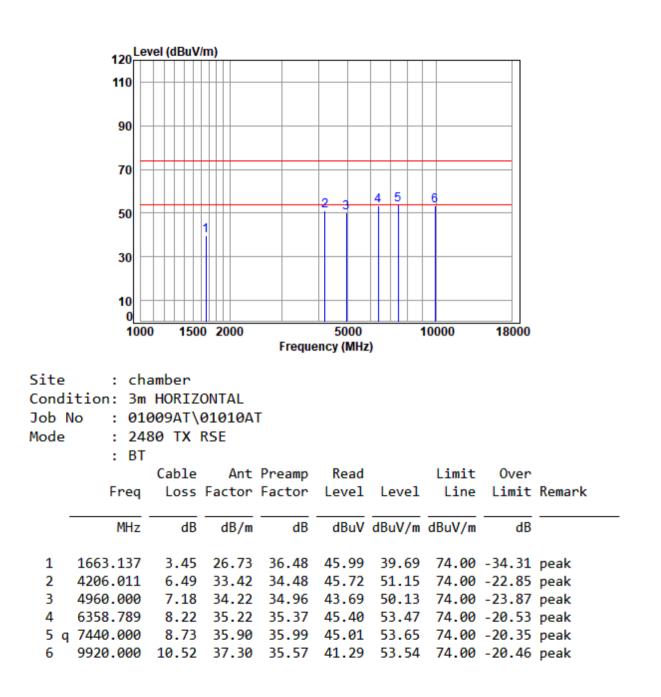
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400100902 Page: 51 of 99

Test Mode: 01; Polarity: Horizontal; Modulation: GFSK; Channel: High





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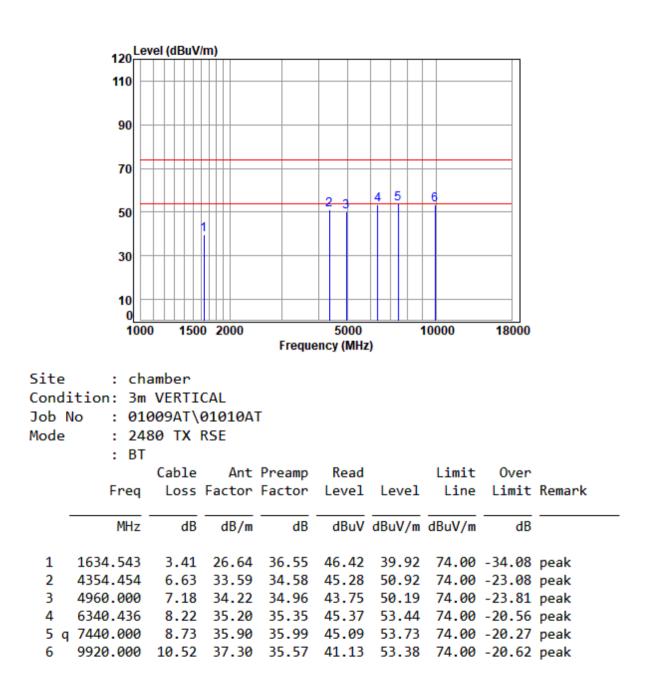
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400100902 Page: 52 of 99

Test Mode: 01; Polarity: Vertical; Modulation: GFSK; Channel: High





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

Report No.: SZCR230400100902 Page: 53 of 99

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

Refer to Appendix - Test Setup Photo for SZCR2304001009AT

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

Refer to External and Internal Photos for SZCR2304001009AT



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

Report No.: SZCR230400100902 Page: 54 of 99

# **10** Appendix

1. Bandwidth

1.1 OBW

1.1.1 Test Result

Mode	тх	Frequency	Packet	ANT	99% Occupied Bandwidth (MHz)	Verdict
mode	Туре	(MHz)	Туре	,	Result	Verdiet
		2402	DH5	1	0.831	Pass
GFSK	SISO	2441	DH5	1	0.830	Pass
		2480	DH5	1	0.829	Pass
		2402	2DH5	1	1.173	Pass
Pi/4DQPSK	SISO	2441	2DH5	1	1.174	Pass
		2480	2DH5	1	1.172	Pass
		2402	3DH5	1	1.182	Pass
8DPSK	SISO	2441	3DH5	1	1.181	Pass
		2480	3DH5	1	1.182	Pass



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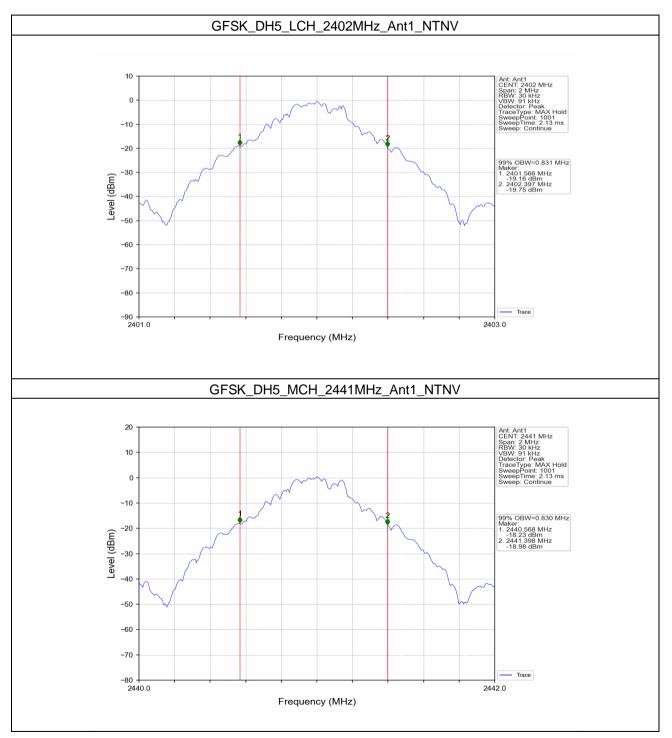
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Report No.: SZCR230400100902 Page: 55 of 99

#### 1.1.2 Test Graph





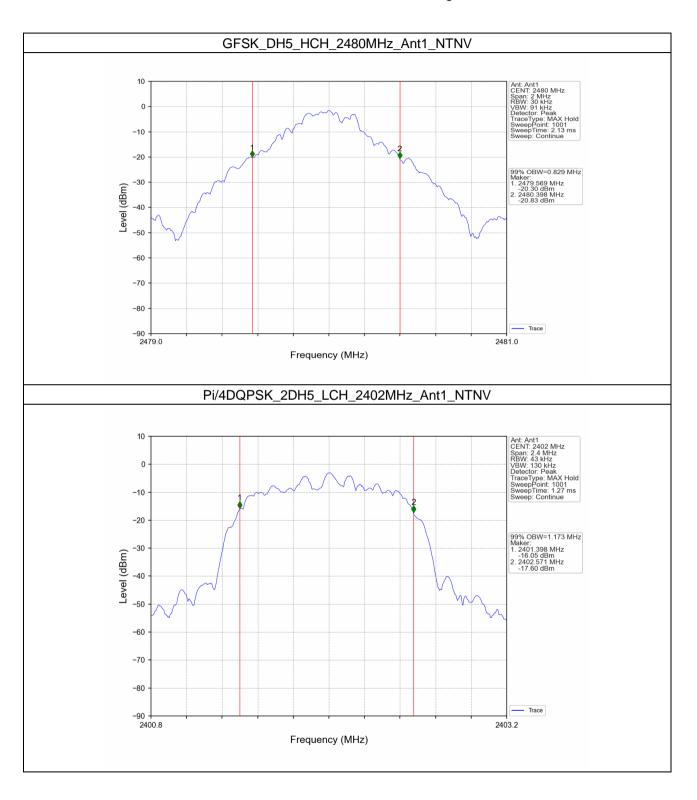
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400100902 Page: 56 of 99





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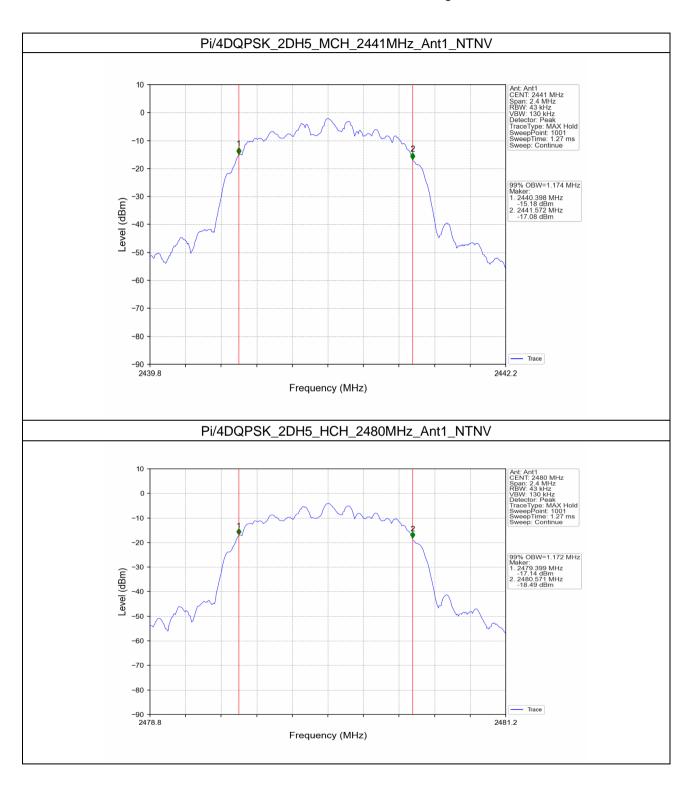
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Report No.: SZCR230400100902 Page: 57 of 99





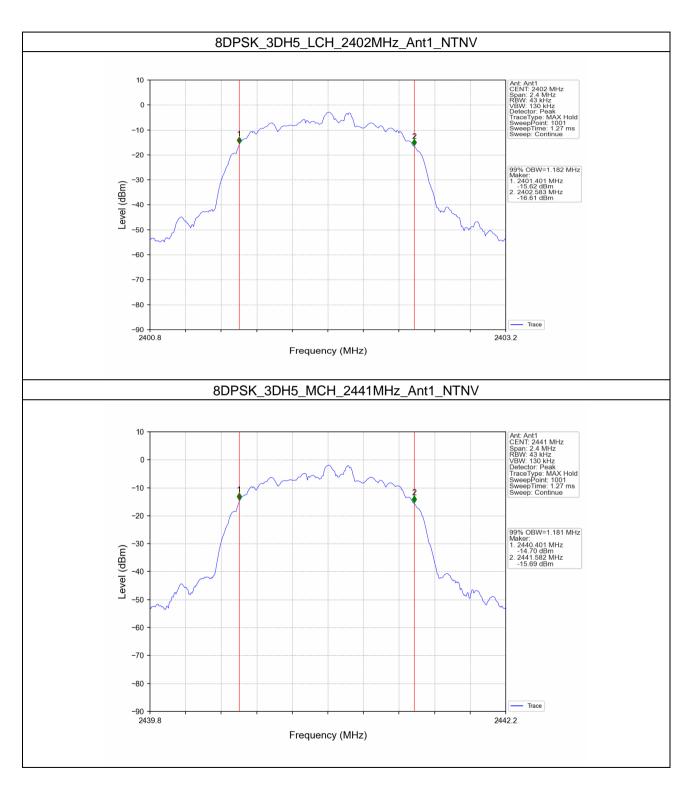
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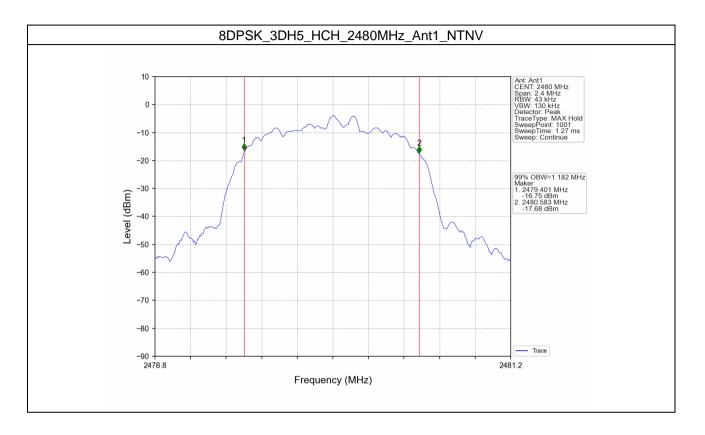
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400100902 Page: 60 of 99

#### 1.2 20dB BW

#### 1.2.1 Test Result

Mada	Mode TX		Packet	ANT	20dB Bandwidth (MHz)	Verdict
wode	Туре	(MHz)	Туре	ANT	Result	verdict
		2402	DH5	1	0.936	Pass
GFSK	SISO	2441	DH5	1	0.943	Pass
		2480	DH5	1	0.933	Pass
		2402	2DH5	1	1.328	Pass
Pi/4DQPSK	Pi/4DQPSK SISO	2441	2DH5	1	1.330	Pass
		2480	2DH5	1	1.327	Pass
8DPSK SISO		2402	3DH5	1	1.318	Pass
	SISO	2441	3DH5	1	1.318	Pass
		2480	3DH5	1	1.318	Pass



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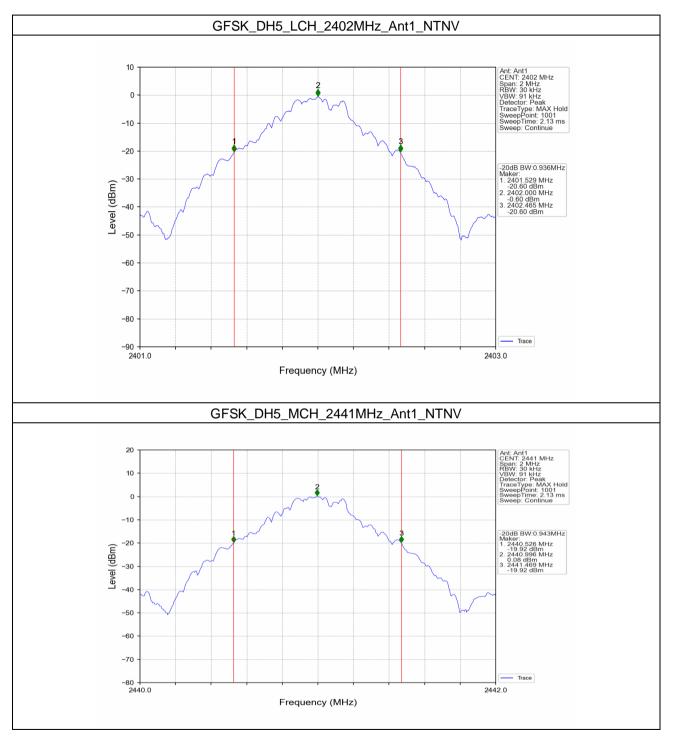
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Report No.: SZCR230400100902 Page: 61 of 99

#### 1.2.2 Test Graph





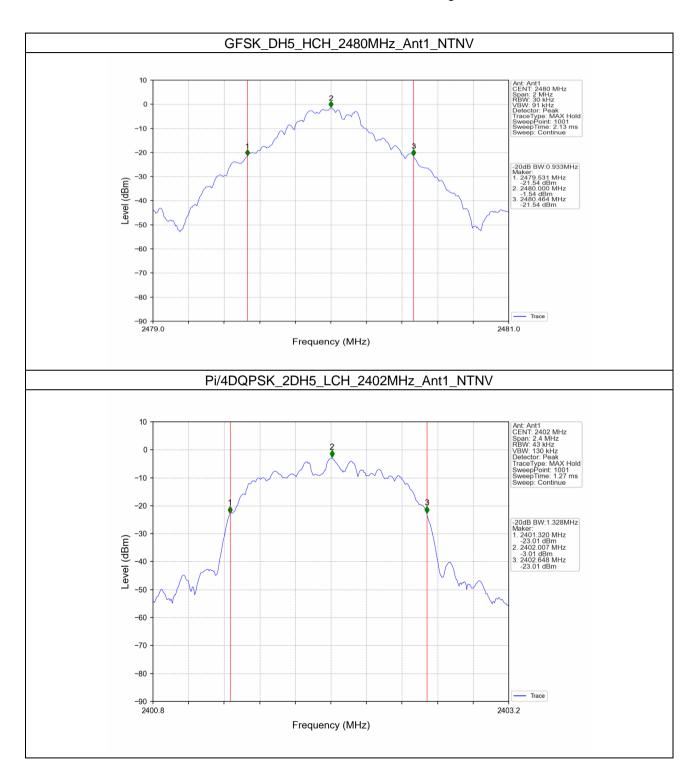
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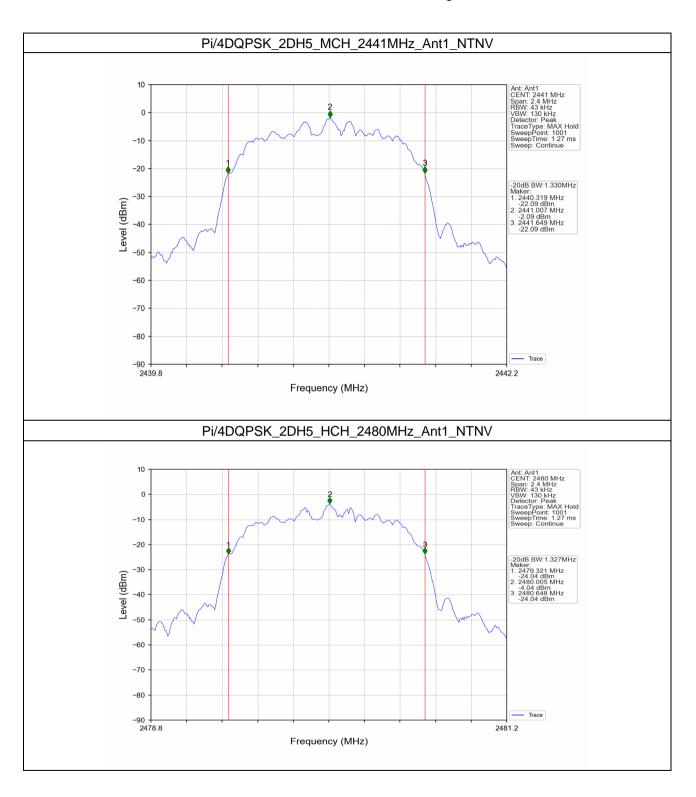
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Report No.: SZCR230400100902 Page: 63 of 99





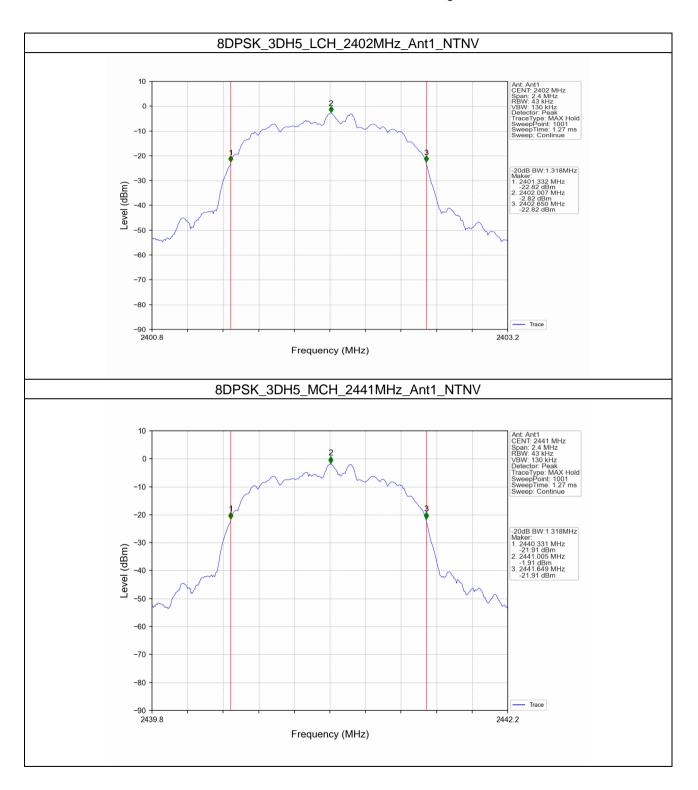
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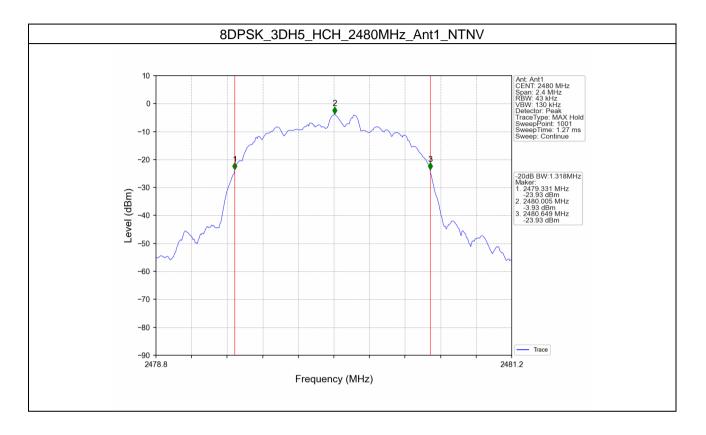
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Report No.: SZCR230400100902 Page: 66 of 99

#### 2. Maximum Conducted Output Power

#### 2.1 Power

#### 2.1.1 Test Result

Mode	ТХ Туре	Frequency (MHz)	Packet Type	Maximum Peak Cone (dE	Verdict		
				ANT1	Limit		
GFSK	SISO	2402	DH5	2.87	<=30	Pass	
		2441	DH5	3.51	<=30	Pass	
		2480	DH5	1.59	<=30	Pass	
Pi/4DQPSK	SISO	2402	2DH5	0.74	<=20.97	Pass	
		2441	2DH5	1.43	<=20.97	Pass	
		2480	2DH5	-0.36	<=20.97	Pass	
8DPSK	SISO	2402	3DH5	0.67	<=20.97	Pass	
		DPSK SISO	2441	3DH5	1.54	<=20.97	Pass
		2480	3DH5	-0.47	<=20.97	Pass	

#### 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	0.986	0.943	>=0.943	Pass	
Pi/4DQPSK	SISO	HOPP	2DH5	1.008	1.330	>=0.887	Pass	
8DPSK	SISO	HOPP	3DH5	1.001	1.318	>=0.879	Pass	



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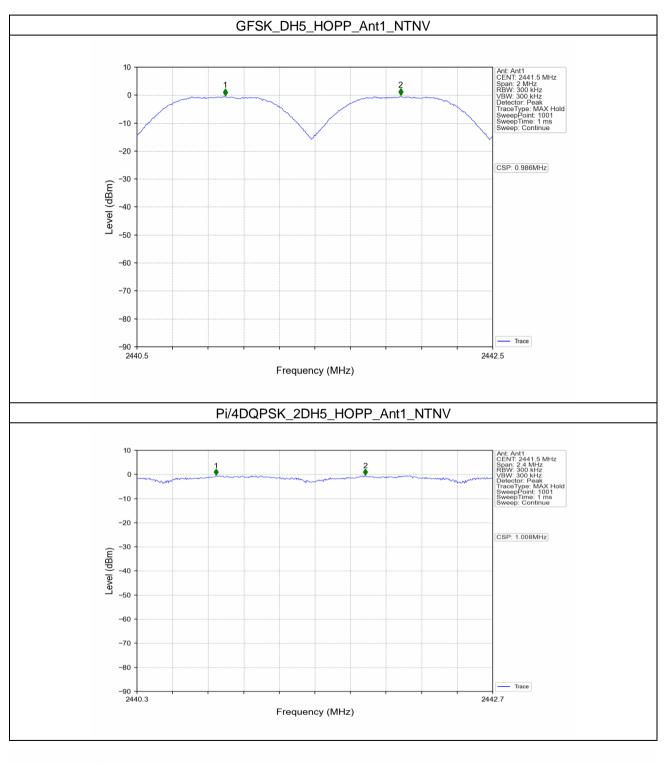
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400100902 Page: 67 of 99

#### 3.1.2 Test Graph





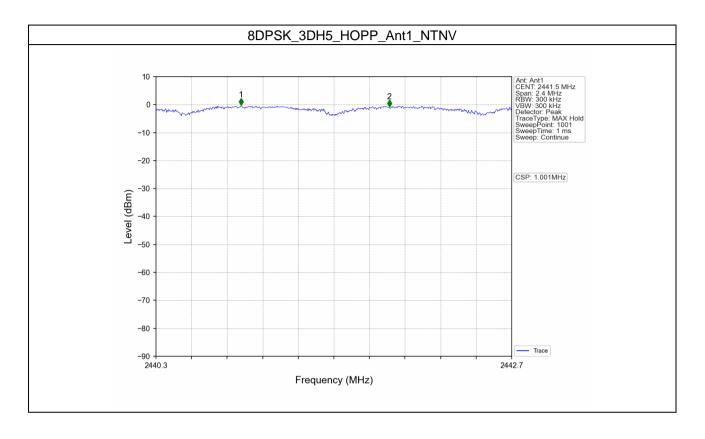
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400100902 Page: 68 of 99





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

Report No.: SZCR230400100902 Page: 69 of 99

#### 4. Number of Hopping Frequencies

#### 4.1 HoppNum

#### 4.1.1 Test Result

Mode	ТΧ	Frequency (MHz)	Packet Type	Num of Hoppir	Vordiat	
	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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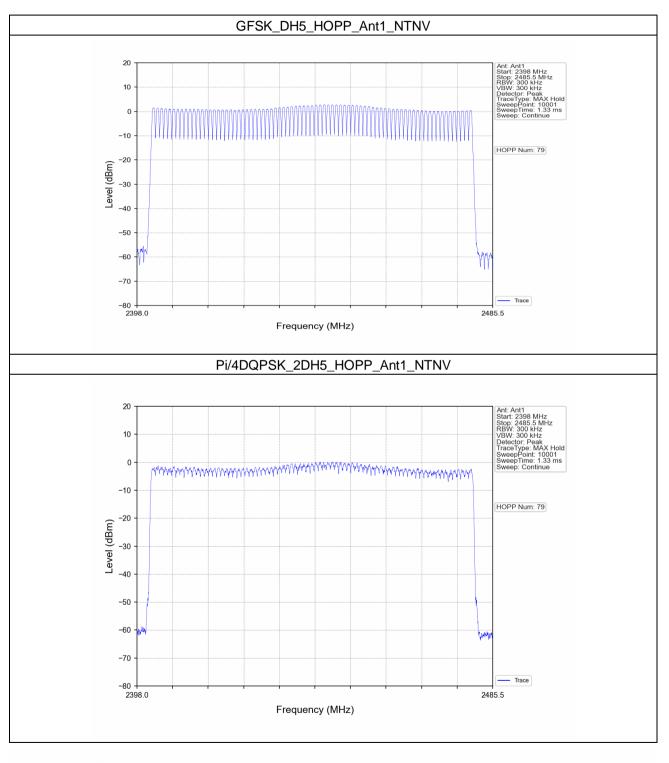
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Report No.: SZCR230400100902 Page: 70 of 99

#### 4.1.2 Test Graph





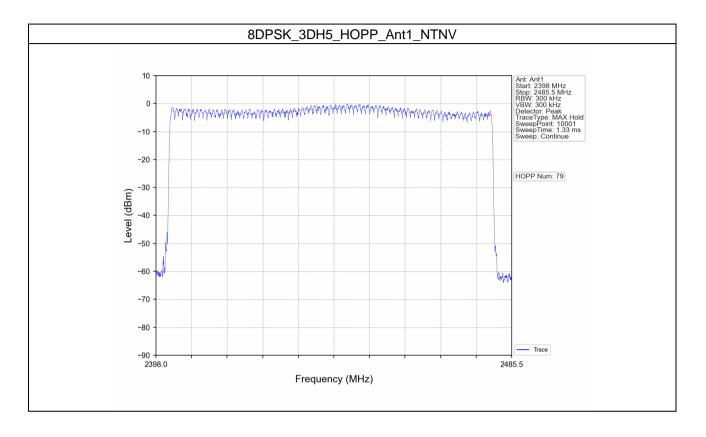
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400100902 Page: 71 of 99





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

Report No.: SZCR230400100902 Page: 72 of 99

## 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	
GFSK SIS			DH1	0.386	31.600	159	61.374	<=400	Pass	
	SISO	HOPP	DH3	1.644	31.600	167	274.548	<=400	Pass	
			DH5	2.882	31.600	85	244.970	<=400	Pass	
Pi/4DQPSKSI		НОРР	2DH1	0.388	31.600	165	64.020	<=400	Pass	
	SISO		2DH3	1.638	31.600	165	270.270	<=400	Pass	
			2DH5	2.896	31.600	76	220.096	<=400	Pass	
8DPSK	SISO	ISO HOPP	3DH1	0.396	31.600	166	65.736	<=400	Pass	
			3DH3	1.646	31.600	169	278.174	<=400	Pass	
			3DH5	2.896	31.600	86	249.056	<=400	Pass	



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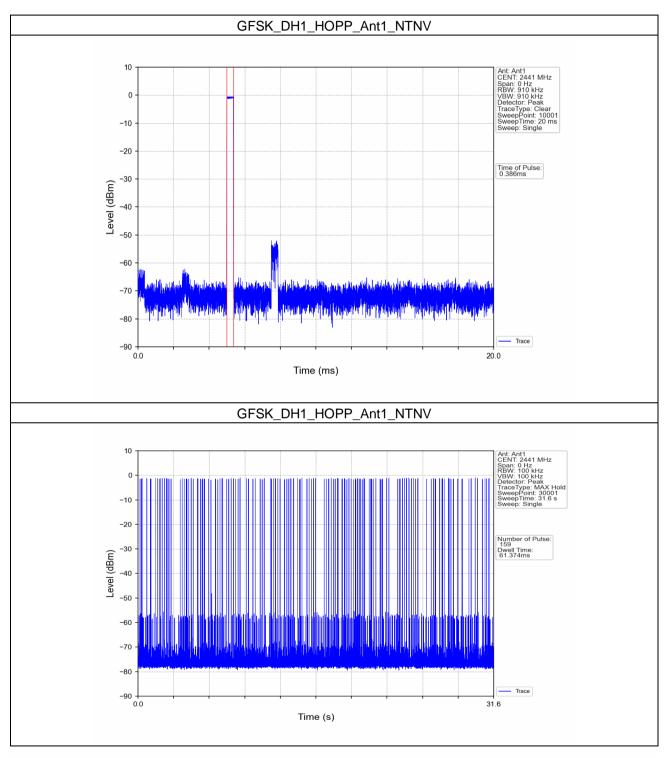
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Report No.: SZCR230400100902 Page: 73 of 99

#### 5.1.2 Test Graph





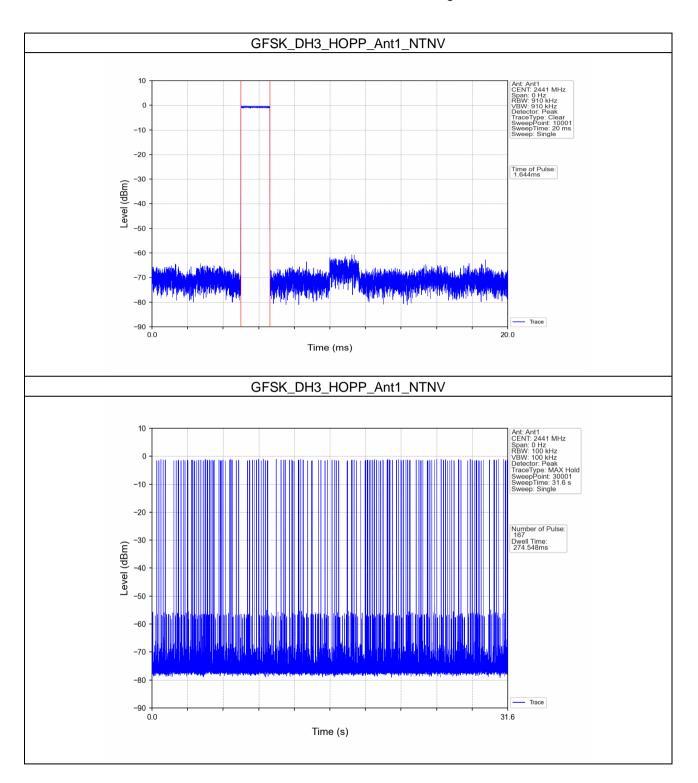
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Report No.: SZCR230400100902 Page: 74 of 99





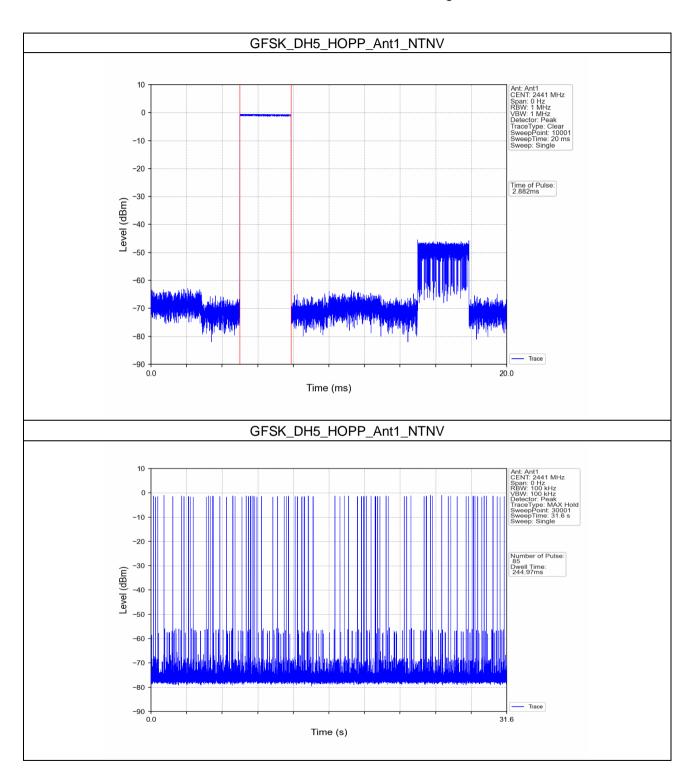
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Report No.: SZCR230400100902 Page: 75 of 99





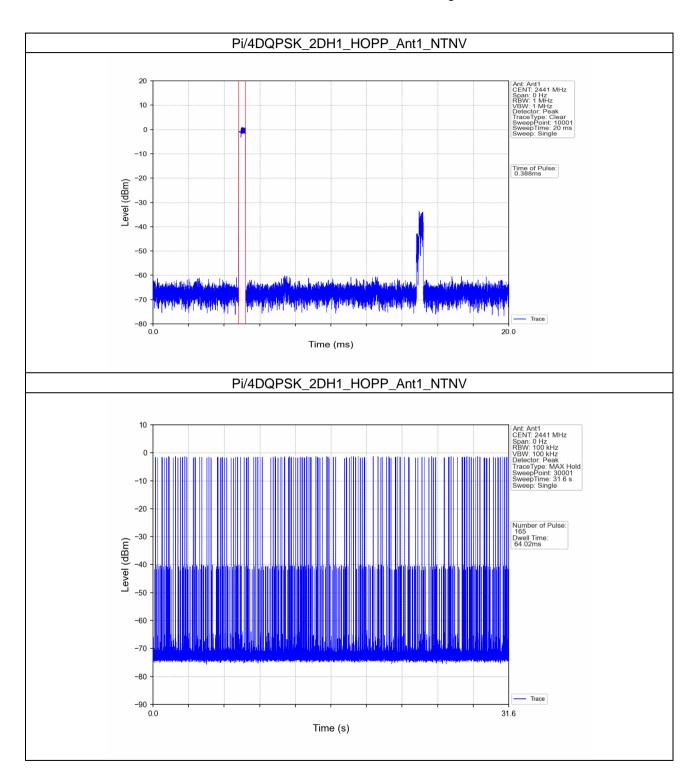
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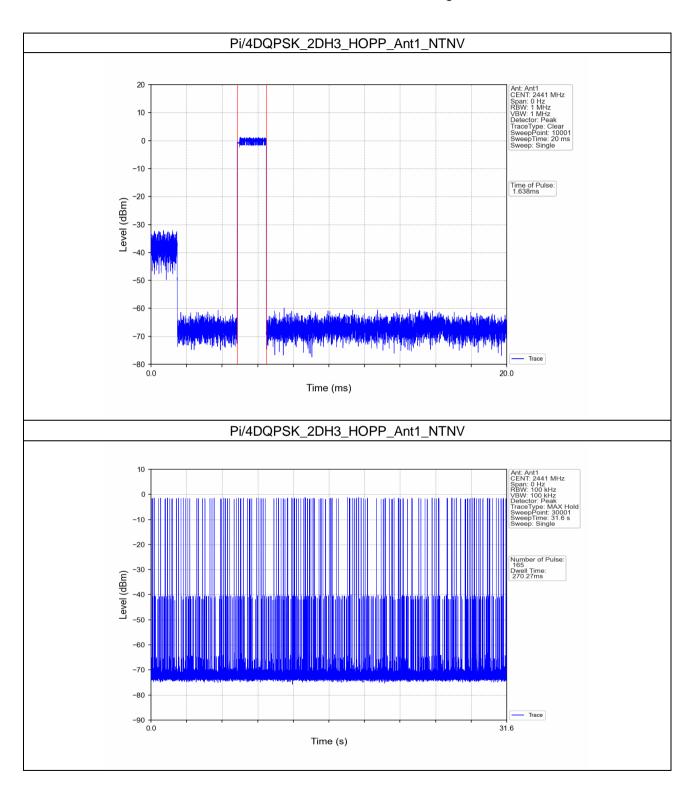
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Report No.: SZCR230400100902 Page: 77 of 99



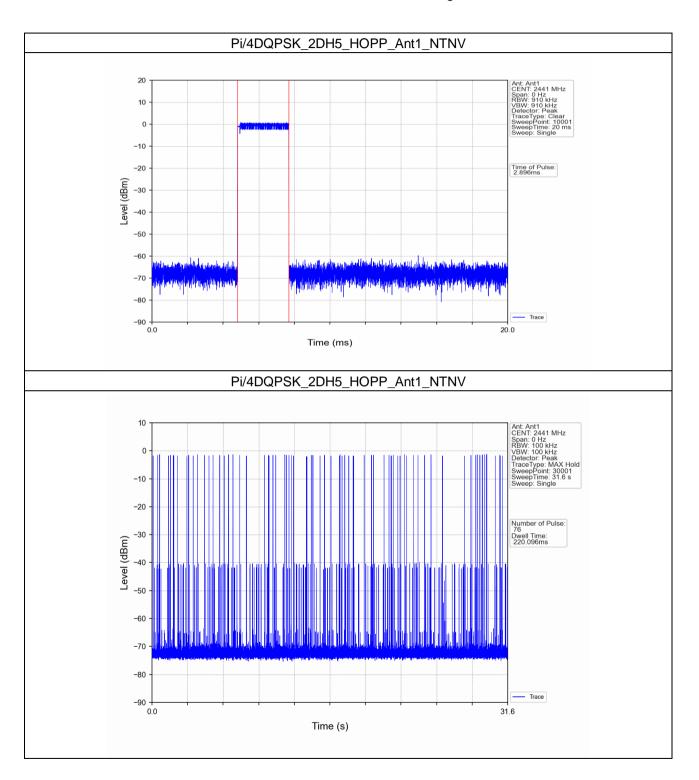
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Report No.: SZCR230400100902 Page: 78 of 99





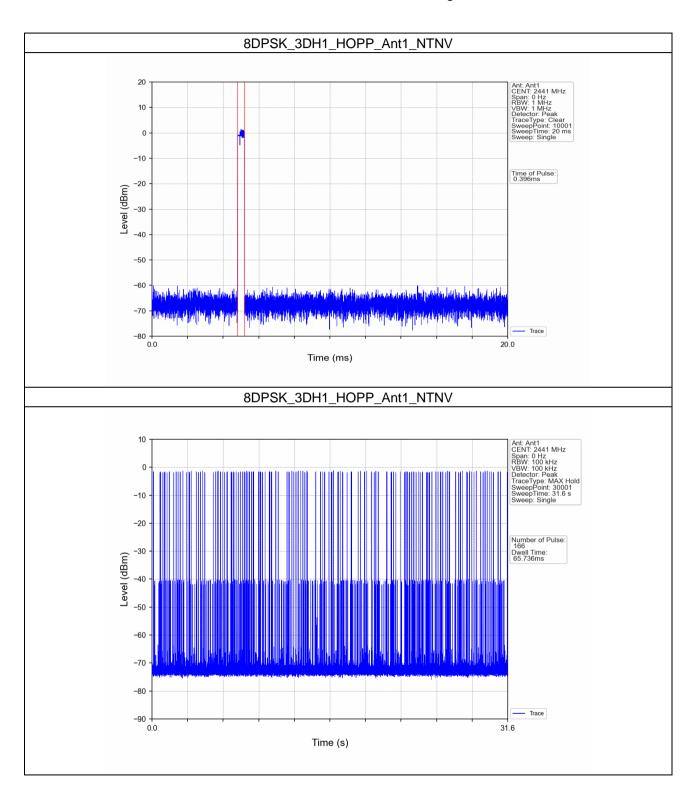
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Report No.: SZCR230400100902 Page: 79 of 99





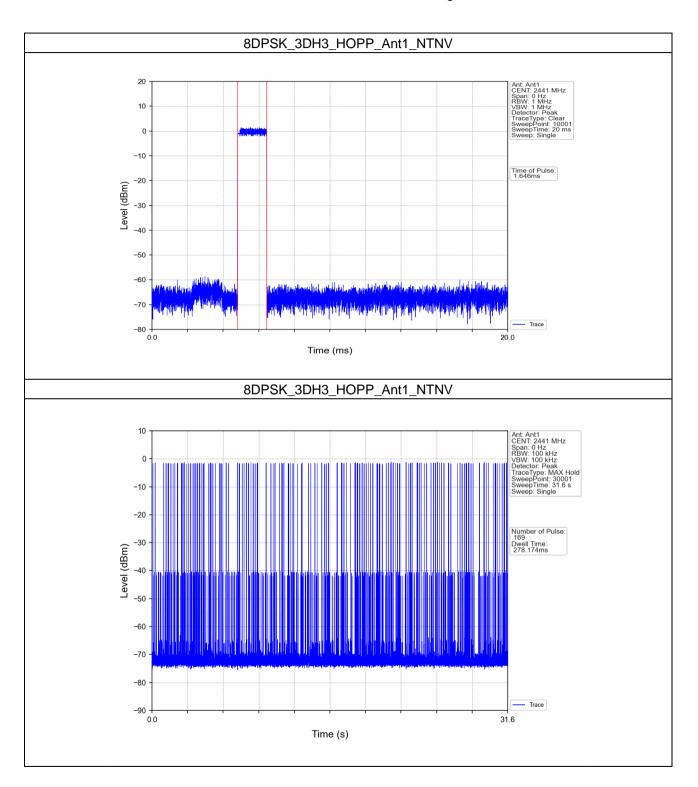
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Report No.: SZCR230400100902 Page: 80 of 99





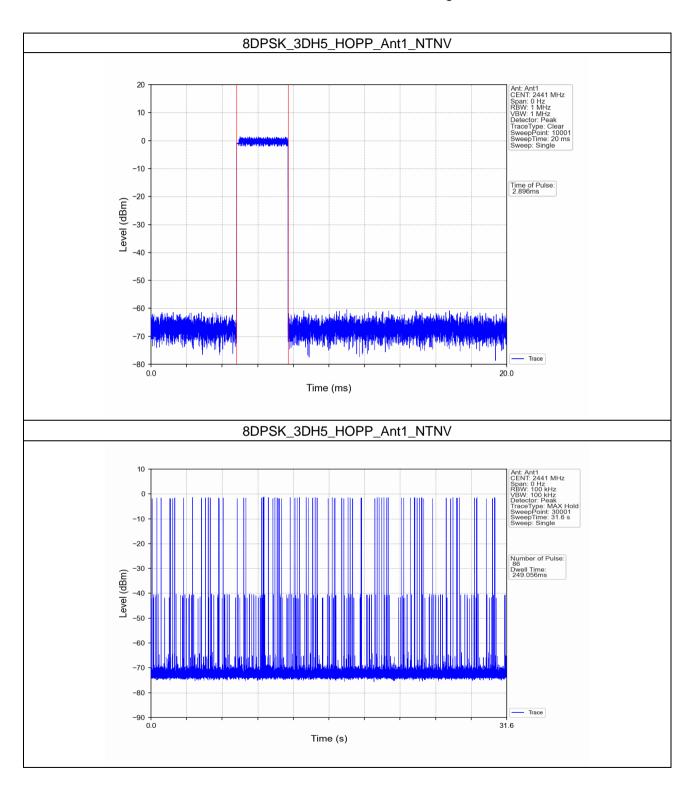
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400100902 Page: 82 of 99

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

#### 6.1 Ref

#### 6.1.1 Test Result

Mode	ТХ Туре	Frequency (MHz)	Packet ANT		Level of Reference (dBm)	
GFSK		2402	DH5	1	1.17	
	SISO	2441	DH5	1	2.13	
		2480	DH5	1	0.22	
Pi/4DQPSK	SISO	2402	2DH5	1	-1.68	
		2441	2DH5	1	-0.76	
		2480	2DH5	1	-2.74	
8DPSK	SISO	2402	3DH5	1	-1.68	
		2441	3DH5	1	-0.56	
		2480	3DH5	1	-2.58	



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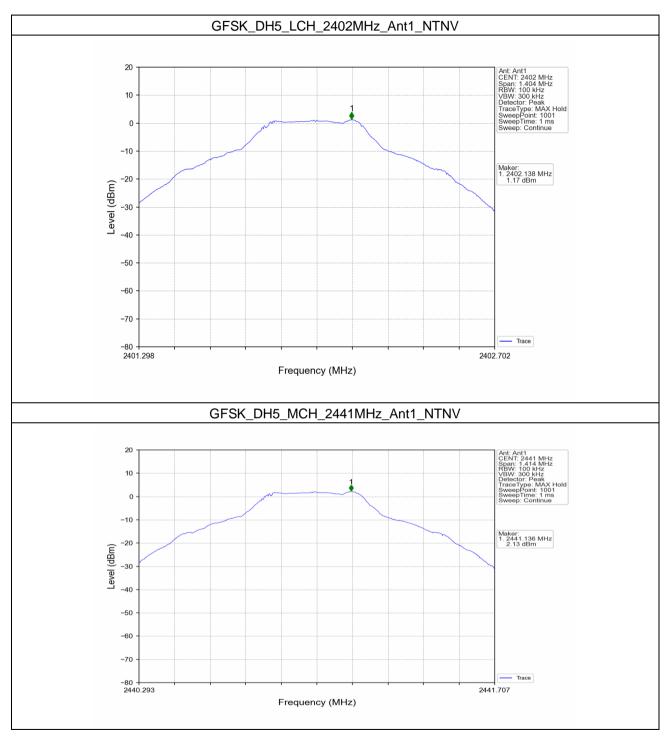
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400100902 Page: 83 of 99

#### 6.1.2 Test Graph





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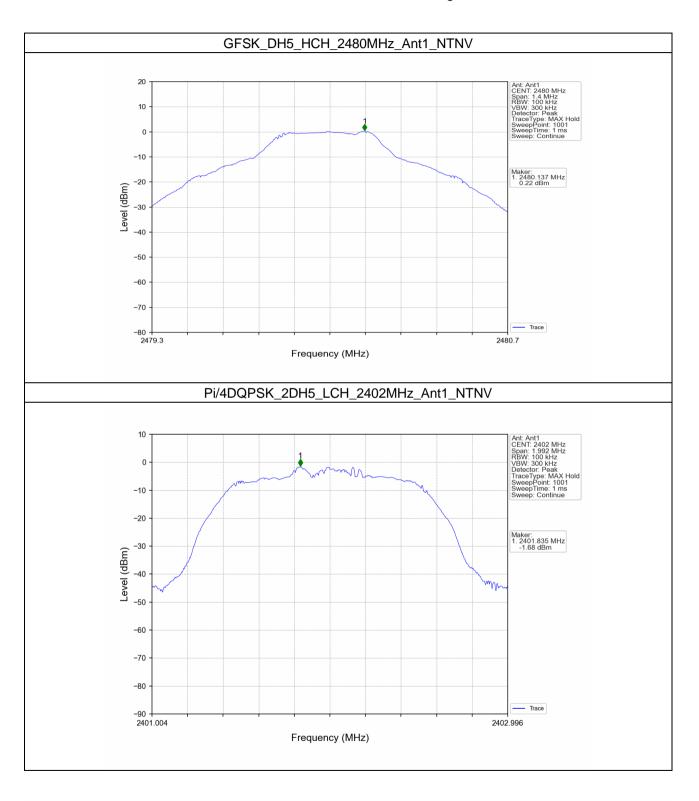
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400100902 Page: 84 of 99





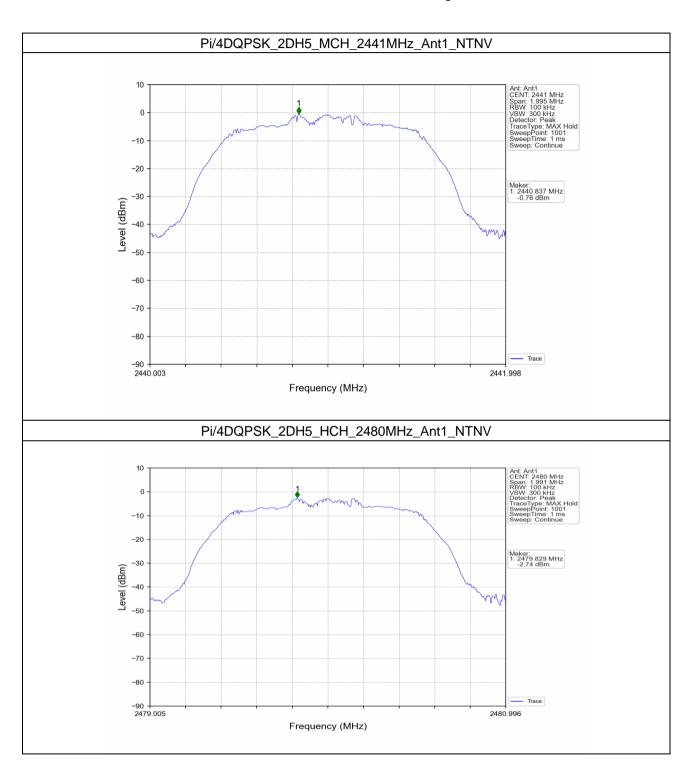
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400100902 Page: 85 of 99





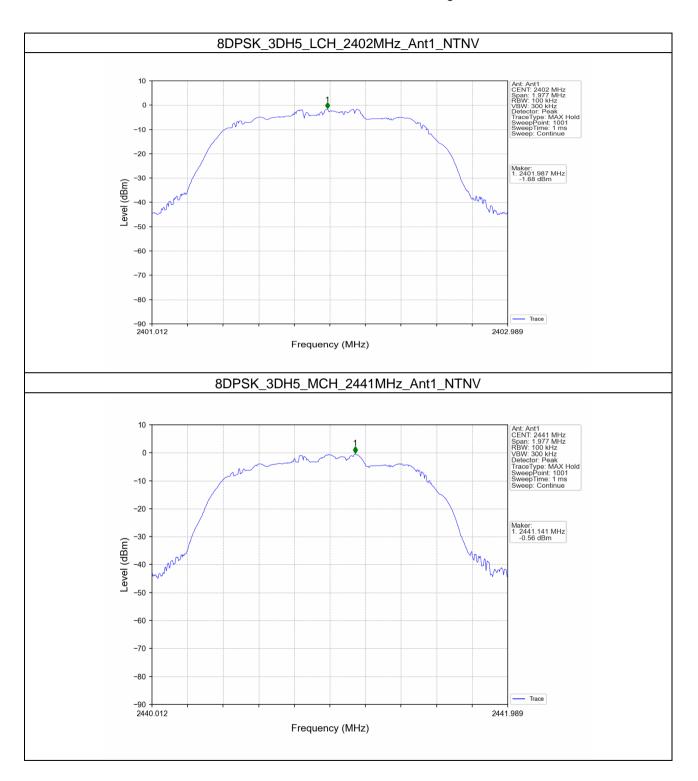
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400100902 Page: 86 of 99





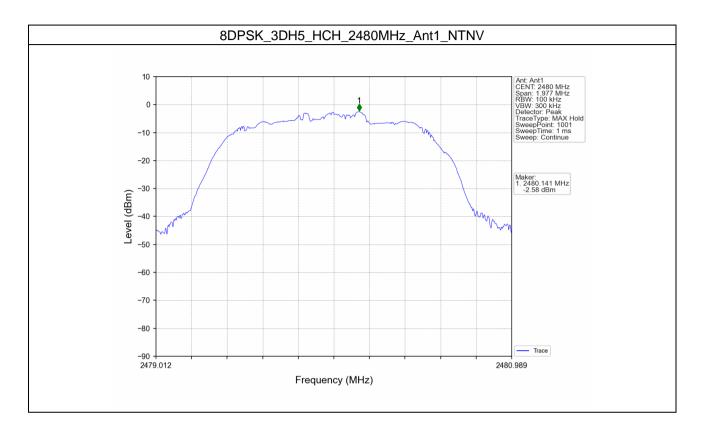
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400100902 Page: 87 of 99





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

Report No.: SZCR230400100902 Page: 88 of 99

#### 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	2.13	-17.87	Pass
		2441	DH5	1	2.13	-17.87	Pass
		2480	DH5	1	2.13	-17.87	Pass
		HOPP	DH5	1	2.13	-17.87	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	-0.76	-20.76	Pass
		2441	2DH5	1	-0.76	-20.76	Pass
		2480	2DH5	1	-0.76	-20.76	Pass
		HOPP	2DH5	1	-0.76	-20.76	Pass
8DPSK	SISO	2402	3DH5	1	-0.56	-20.56	Pass
		2441	3DH5	1	-0.56	-20.56	Pass
		2480	3DH5	1	-0.56	-20.56	Pass
		HOPP	3DH5	1	-0.56	-20.56	Pass



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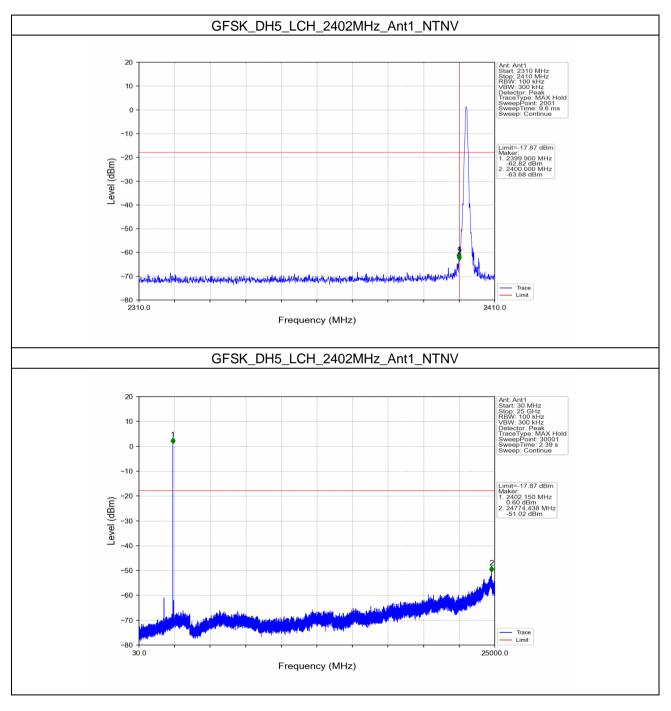
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400100902 Page: 89 of 99

#### 6.2.2 Test Graph





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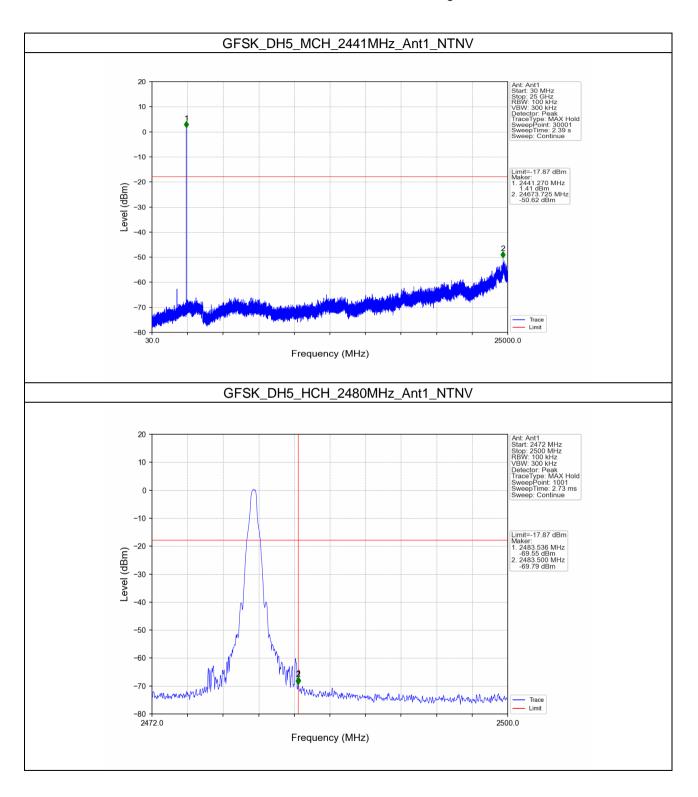
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Report No.: SZCR230400100902 Page: 90 of 99





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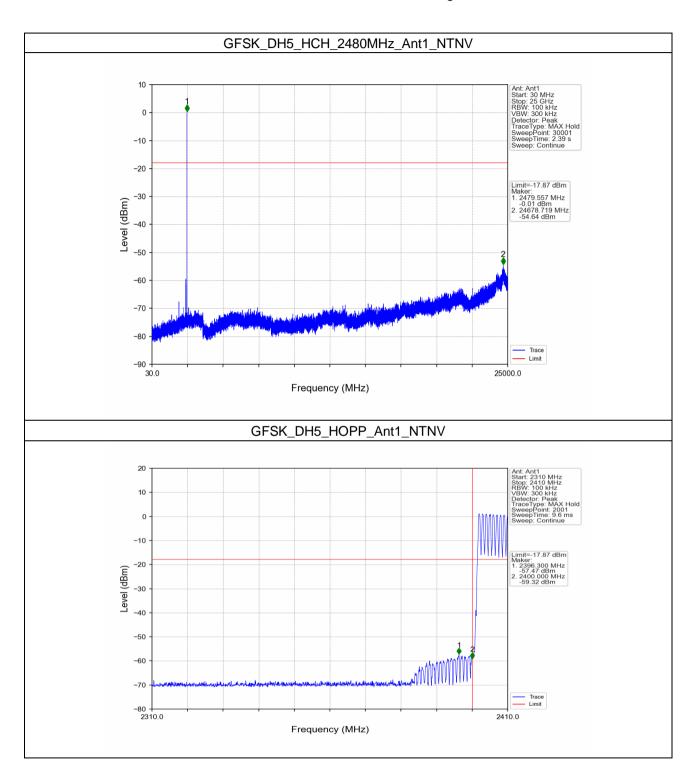
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Report No.: SZCR230400100902 Page: 91 of 99





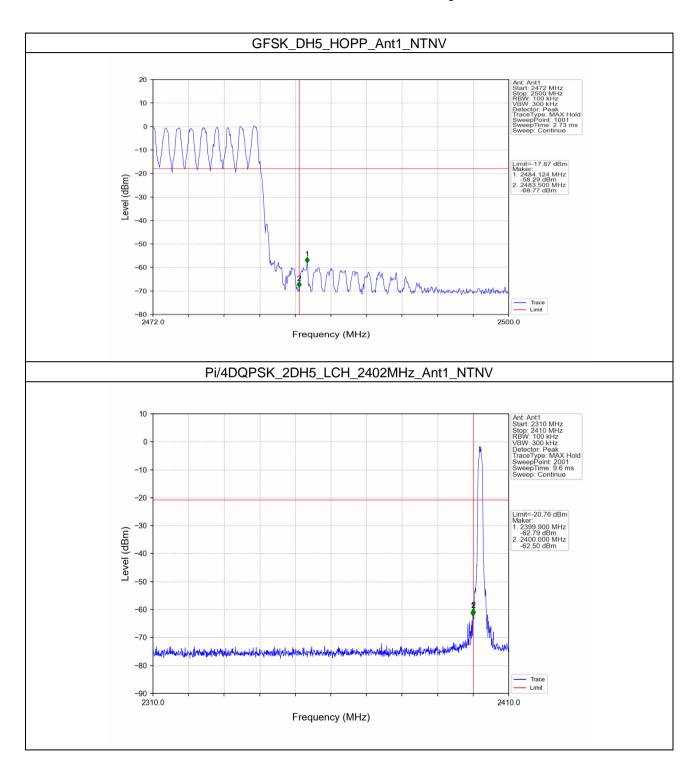
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Report No.: SZCR230400100902 Page: 92 of 99





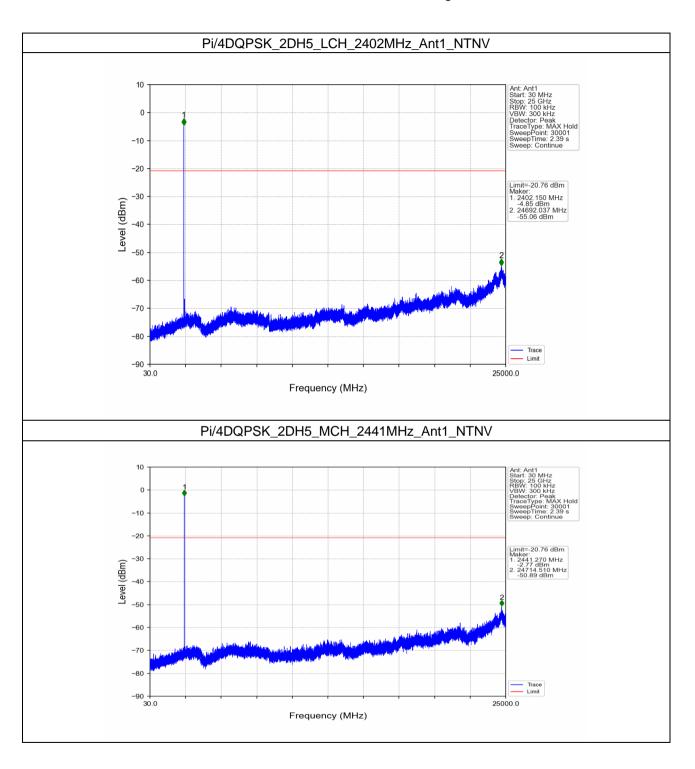
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Report No.: SZCR230400100902 Page: 93 of 99



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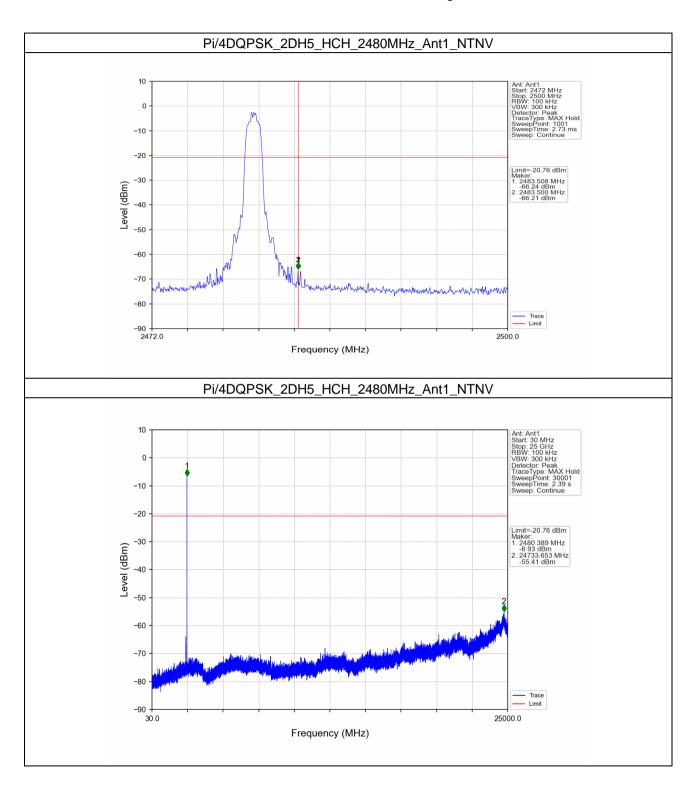
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Report No.: SZCR230400100902 Page: 94 of 99





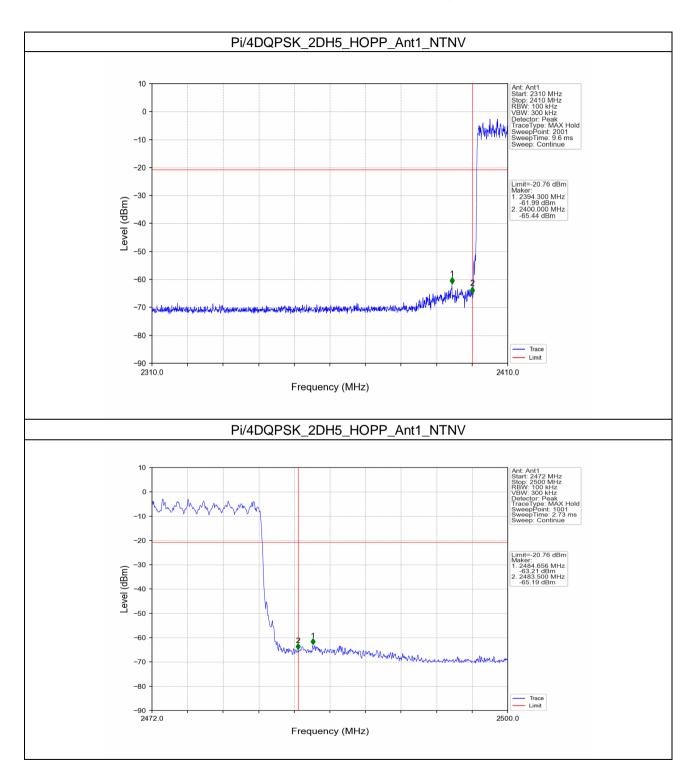
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Report No.: SZCR230400100902 Page: 95 of 99





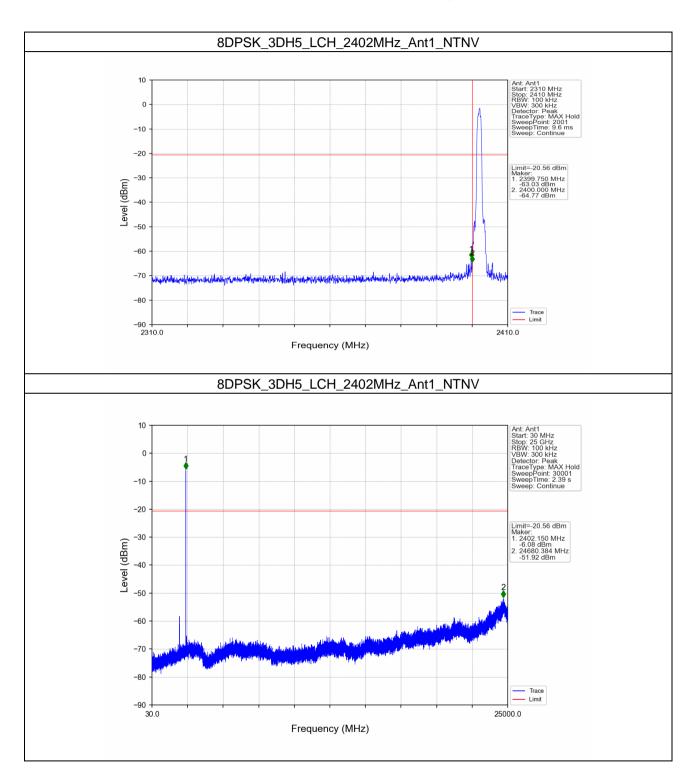
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Report No.: SZCR230400100902 Page: 96 of 99





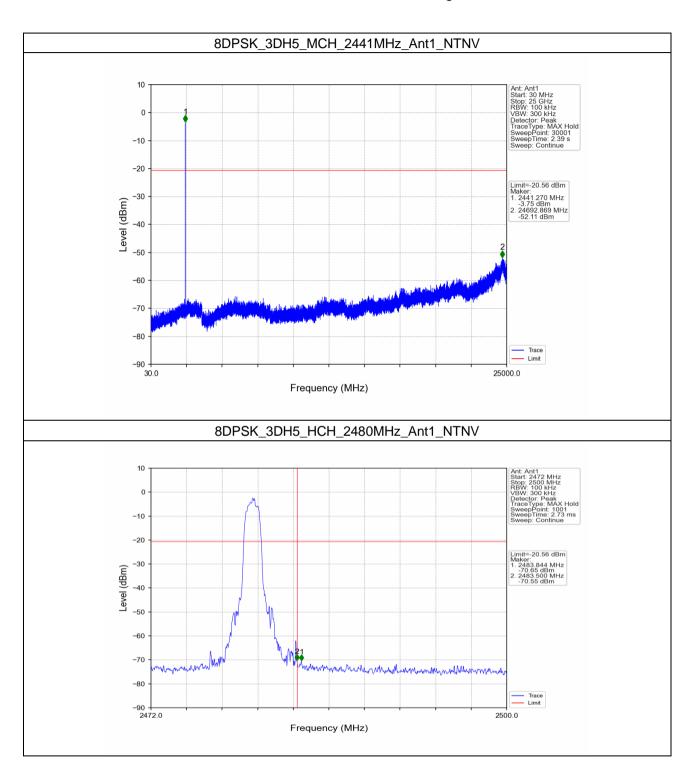
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Report No.: SZCR230400100902 Page: 97 of 99





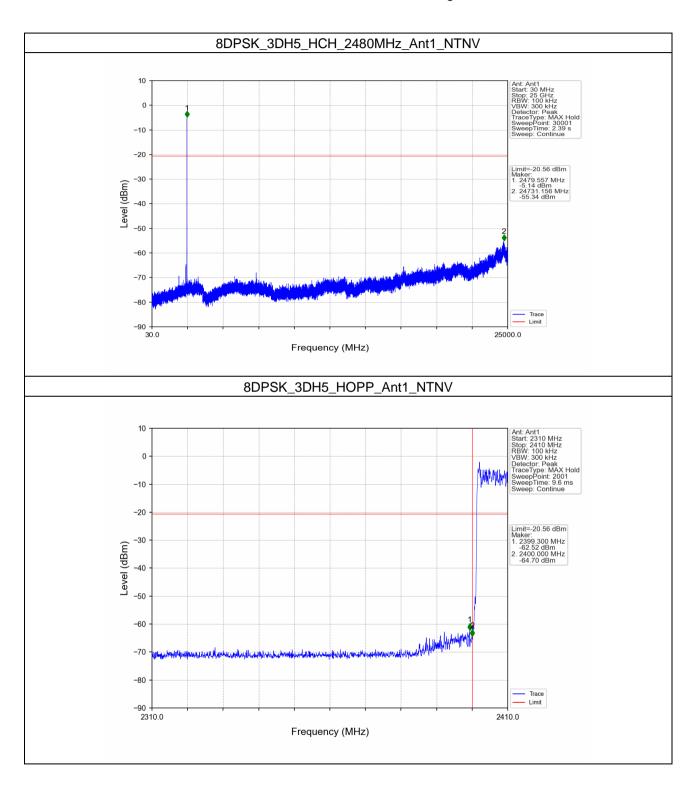
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400100902 Page: 98 of 99





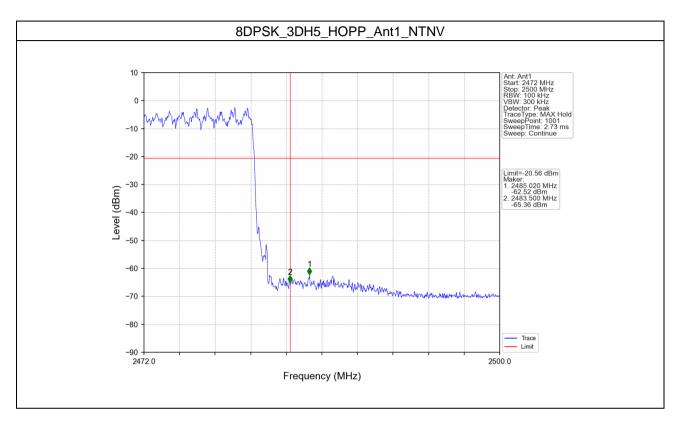
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400100902 Page: 99 of 99



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