

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 1 of 100

TEST REPORT

Application No.:	SZCR2412004600AT		
Applicant:	Fujian Newland Payment Technology Co.,Ltd.		
Address of Applicant:	No. B602, Building #1, Haixia Jingmao Plaza, Fuzhou Bonded Area 350015, Fujian, China		
Manufacturer:	Fujian Newland Payment Technology Co.,Ltd.		
Address of Manufacturer:	No. B602, Building #1, Haixia Jingmao Plaza, Fuzhou Bonded Area 350015, Fujian, China		
Equipment Under Test (EUT):		
EUT Description:	Unattended Terminal		
Model No.:	U2000		
Trade Mark:	Newland		
FCC ID:	2AM6U-U2000		
Standard(s) :	47 CFR Part 15, Subpart C 15.247		
Date of Receipt:	2024-12-06		
Date of Test:	2024-12-23 to 2025-01-08		
Date of Issue:	2025-01-14		
Test Result:	Pass*		

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

Keny. Ku

Keny Xu EMC Laboratory Manager



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Report No.: SZCR241200460002 Page: 2 of 100

	Revision Record					
Version Chapter Date Modifier Remark						
01		2025-01-14		Original		

Authorized for issue by:		
	porjon. In ang	
	Donjon Huang/Project Engineer	
	Eric Fu	
	Eric Fu/Reviewer	



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 3 of 100

2 **Test Summary**

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

Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)		ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Conducted Peak Output Power	47 CFR Part 15,	ANSI C63.10 (2013) Section 7.8.5	47 CFR Part 15, Subpart C 15.247(b)(1)	Pass
20dB Bandwidth	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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Report No.: SZCR241200460002 Page: 4 of 100

3 Contents

		Page
1	Cover Page	1
2	Test Summary	3
2		
3	Contents	4
4	General Information	6
1		
	 4.1 Details of E.U.T. 4.2 Environment Parameter 	
	4.2 Environment Parameter	
	4.4 Test Location	
	4.5 Test Facility	
	4.6 Deviation from Standards	
	4.7 Abnormalities from Standard Conditions	
-	Equipment List	
5	Equipment List	9
6	Radio Spectrum Technical Requirement	11
U		
	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: 	
	6.2.1 Test Requirement:	
7	Radio Spectrum Matter Test Results	14
	7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)	14
	7.1.1 E.U.T. Operation	
	7.1.2 Test Mode Description	14
	7.1.3 Test Setup Diagram	15
	7.1.4 Measurement Procedure and Data	
	7.2 Radiated Emissions which fall in the restricted bands	
	7.2.1 E.U.T. Operation	
	7.2.2 Test Mode Description	
	7.2.3 Test Setup Diagram	
	7.2.4 Measurement Procedure and Data	
	7.3 Radiated Spurious Emissions Below 1GHz	
	7.3.1 E.U.T. Operation7.3.1 Test Mode Description	
	7.3.2 Test Setup Diagram	
	7.3.3 Measurement Procedure and Data	
	7.4 Radiated Spurious Emissions Above 1GHz.	
	7.4.1 E.U.T. Operation	
	7.4.2 Test Mode Description	
	7.4.3 Test Setup Diagram	38



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 5 of 100

	7.4.4 Measurement Procedure and Data	
7.	.5 Conducted Peak Output Power	46
	7.5.1 E.U.T. Operation	46
	7.5.2 Test Mode Description	46
	7.5.3 Test Setup Diagram	
	7.5.4 Measurement Procedure and Data	47
7.	.6 20dB Bandwidth	48
	7.6.1 E.U.T. Operation	48
	7.6.2 Test Mode Description	48
	7.6.3 Test Setup Diagram	48
	7.6.4 Measurement Procedure and Data	48
7.	.7 Carrier Frequencies Separation	49
	7.7.1 E.U.T. Operation	49
	7.7.2 Test Mode Description	49
	7.7.3 Test Setup Diagram	
	7.7.4 Measurement Procedure and Data	49
7.	.8 Hopping Channel Number	50
	7.8.1 E.U.T. Operation	50
	7.8.2 Test Mode Description	50
	7.8.3 Test Setup Diagram	50
	7.8.4 Measurement Procedure and Data	
7.	.9 Dwell Time	51
	7.9.1 E.U.T. Operation	51
	7.9.2 Test Mode Description	51
	7.9.3 Test Setup Diagram	51
	7.9.4 Measurement Procedure and Data	51
7.	.10 Conducted Band Edges Measurement	52
	7.10.1 E.U.T. Operation	
	7.10.2 Test Mode Description	52
	7.10.3 Test Setup Diagram	53
	7.10.4 Measurement Procedure and Data	53
7.	.11 Conducted Spurious Emissions	54
	7.11.1 E.U.T. Operation	54
	7.11.2 Test Mode Description	54
	7.11.3 Test Setup Diagram	
	7.11.4 Measurement Procedure and Data	
8	Test Setup Photo	55
9	EUT Constructional Details (EUT Photos)	55
10	Appendix	56
	· · · · · · · · · · · · · · · · · · ·	



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 6 of 100

4 General Information

4.1 Details of E.U.T.

EUT Description:	Unattended Terminal		
Model No.:	U2000		
Trade Mark:	Newland		
ardware Version: V1.1			
Software Version:	NDroid 6		
Power Supply:	DC 12V from internal rechargeable battery which can be charge by AC/DC adapter		
	Adapter model: ADS-25SGP-12		
	2400MHz~2483.5MHz		
Operation Frequency:	fc = 2402 MHz + N * 1 MHz, where: -fc = "Operating Frequency" in MHz,		
	-N = "Channel Number" with the range from 0 to 78.		
Bluetooth version:	Bluetooth V5.0		
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)		
Modulation Type:	GFSK, π/4DQPSK, 8DPSK		
Number of Channel:	79		
Hopping Channel Type:	Adaptive Frequency Hopping systems		
Antenna Type:	🗌 External, 🖂 Integrated		
	2.01dBi		
Antenna Gain:	Note:		
	The antenna gain are derived from the gain information report provided by the manufacturer.		
RF Cable:	2000MHz ~ 3000MHz (1.1dB)		
Remark:	•		
As above information is pr	ovided and confirmed by the applicant. SGS is not liable to the accuracy		

As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

EUT 1	HDMI is not supported
EUT 2	HDMI is supported



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Report No.: SZCR241200460002 Page: 7 of 100

4.2 Environment Parameter

Environment Parameter		1020 mbar Selected Values During Tests		
Relative Humidity	Relative Humidity		44.5-58.9 % RH Ambient	
Value		Temperatu	ıre(°C)	Voltage(V)
NTNV		20~25		24
LTLV		-20		12
LTHV		-20		48
HTLV		70		12
HTHV		70 48		48
Note:				
NV:Normal Voltage LV:Low Extreme Test Vol		oltage HV:High Extreme Test Volt		ne Test Voltage
NT:Normal Temperature LT:Low Extreme Test Ter		emperature HT:High Extreme Test Tempe		ne Test Temperature

4.3 Measurement Uncertainty

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

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.: SZCR241200460002 Page: 8 of 100

4.4 Test Location

All tests were performed at: SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch No. 1 Workshop, M-10. Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057. Tel: +86 755 2601 2053 Fax: +86 755 2671 0594 No tests were sub-contracted.

4.5 Test Facility

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

• A2LA (Certificate No. 3816.01)

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

VCCI (Member No. 1937)

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

FCC –Designation Number: CN1336

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

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

Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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Report No.: SZCR241200460002 Page: 9 of 100

Equipment List 5

Conducted Emissions at AC Power Line (150kHz-30MHz)							
Equipment	Equipment Manufacturer Model No. Inventory No. Cal Date Cal D				Cal Due Date		
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2022-05-14	2025-05-13		
EMI Test Receiver	Rohde&Schwarz	ESR	SZ-WRG-M-047	2024-01-30	2025-01-29		
Measurement Software	AUDIX	e3 V8.2014- 6-27a	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM024-01	2024-07-06	2025-07-05		
LISN	Rohde&Schwarz	ENV216	SEM007-01	2024-08-15	2025-08-14		
LISN	ETS-LINDGREN	3816/2	SEM007-02	2024-03-14	2025-03-13		

Radiated Emissions which fall in the restricted bands											
Equipment	Manufacturer	Inventory No.	Cal Date	Cal Due Date							
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10						
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14						
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22						
Microwave system amplifier	Agilent	83017A	83017A SEM005-25 202		2025-09-13						
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A						
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05						
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170 SEM003-15		2024-08-10	2025-08-09						
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2024-03-15	2025-03-14						

Radiated Spurious Emissions Below 1GHz											
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date						
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19						
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18						
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2024-08-14	2025-08-13						
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15						
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2024-03-14	2025-03-13						
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A						
Coaxial Cable	SGS	N/A	SEM025-01	2024-07-06	2025-07-05						



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Report No.: SZCR241200460002 Page: 10 of 100

Radiated Spurious Emissions Above 1GHz											
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date						
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10						
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14						
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22						
Microwave system amplifier	Agilent	83017A SEM005-25 2024-		2024-09-14	2025-09-13						
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A						
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05						
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2024-08-10	2025-08-09						
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2024-03-15	2025-03-14						

RF Conducted Test						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2024-03-27	2025-03-26	
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2024-03-14	2025-03-13	
DC Power Supply	Chroma	62012P-80-60	62012P-80-60 SEM011-11		2025-08-13	
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13	
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-01	2024-07-06	2025-07-05	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2024-03-27	2025-03-26	

General used equipment											
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date						
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2024-07-24	2025-07-23						
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2024-07-24	2025-07-23						
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024-03-18	2025-03-17						



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 11 of 100

Radio Spectrum Technical Requirement 6

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

6.1.2 Conclusion

15.203 requirement:

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

EUT Antenna:

The antenna is an Integrated Antenna, and the connection port is fixed with glue, and the antenna cannot be replaced.

The best-case gain of the antenna is 2.01dBi.*

*Note:

The antenna gain are derived from the gain information report provided by the manufacturer.

Remark:

As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 12 of 100

6.2 Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence

6.2.1 Test Requirement:

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

6.2.2 Conclusion

Standard Requirement:

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

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

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

Compliance for section 15.247(a)(1):

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

- > Number of shift register stages: 9
- > Length of pseudo-random sequence: 29 -1 = 511 bits
- > Longest sequence of zeros: 8 (non-inverted signal)
- Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:

Each frequency used equally on the average by each transmitter.

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

Compliance for section 15.247(g):

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

Compliance for section 15.247(h):



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Report No.: SZCR241200460002 Page: 13 of 100

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

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



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 14 of 100

Radio Spectrum Matter Test Results 7

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

47 CFR Part 15, Subpart C 15.207 Test Requirement Test Method: 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

Opera	ating Environment:	

Temperature:	22.5 °C	Humidity:	44.5 % RH	Atmospheric Pressure:	1020	mbar
--------------	---------	-----------	-----------	-----------------------	------	------

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Charge + TX_non-Hop mode_Keep the EUT1 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.
Final test	01	Charge + TX_non-Hop mode_Keep the EUT2 in charging and continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.



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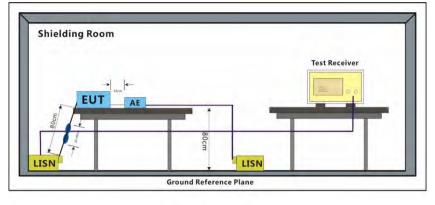
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 15 of 100

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/50 μ H + 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



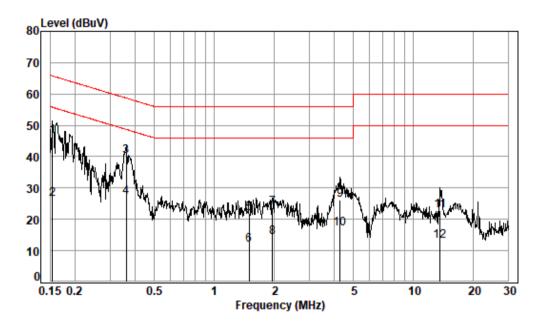
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 16 of 100



Test Mode: 00: Line: Live line

: Shielding Room Site Condition: Line Job No. : 04600AT Test mode: 00

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
-	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1540	0.06	10.19	36.32	46.57	65.78	-19.21	QP
2	0.1540	0.06	10.19	16.14	26.39	55.78	-29.39	Average
3 *	0.3615	0.07	9.74	30.24	40.05	58.69	-18.64	QP
4 *	0.3615	0.07	9.74	17.32	27.13	48.69	-21.56	Average
5	1.4953	0.10	9.58	12.08	21.76	56.00	-34.24	QP
6	1.4953	0.10	9.58	2.22	11.90	46.00	-34.10	Average
7	1.9593	0.10	9.58	14.02	23.70	56.00	-32.30	QP
8	1.9593	0.10	9.58	4.50	14.18	46.00	-31.82	Average
9	4.2692	0.12	9.66	16.30	26.08	56.00	-29.92	QP
10	4.2692	0.12	9.66	7.11	16.89	46.00	-29.11	Average
11	13.5509	0.24	9.86	12.74	22.84	60.00	-37.16	QP
12	13.5509	0.24	9.86	3.00	13.10	50.00	-36.90	Average



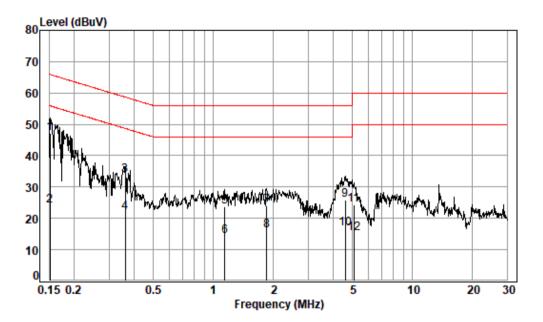
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 17 of 100



Test Mode: 00; Line: Neutral Line

: Shielding Room Site Condition: Neutral Job No. : 04600AT Test mode: 00

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
-	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1516	0.06	10.15	37.08	47.29	65.91	-18.62	QP
2	0.1516	0.06	10.15	13.80	24.01	55.91	-31.90	Average
3	0.3615	0.07	9.75	24.03	33.85	58.69	-24.84	QP
4 *	0.3615	0.07	9.75	12.02	21.84	48.69	-26.85	Average
5	1.1413	0.09	9.54	14.08	23.71	56.00	-32.29	QP
6	1.1413	0.09	9.54	4.75	14.38	46.00	-31.62	Average
7	1.8581	0.10	9.55	14.37	24.02	56.00	-31.98	QP
8	1.8581	0.10	9.55	6.44	16.09	46.00	-29.91	Average
9	4.5979	0.12	9.56	16.05	25.73	56.00	-30.27	QP
10	4.5979	0.12	9.56	7.15	16.83	46.00	-29.17	Average
11	5.0580	0.12	9.56	14.69	24.37	60.00	-35.63	QP
12	5.0580	0.12	9.56	5.65	15.33	50.00	-34.67	Average



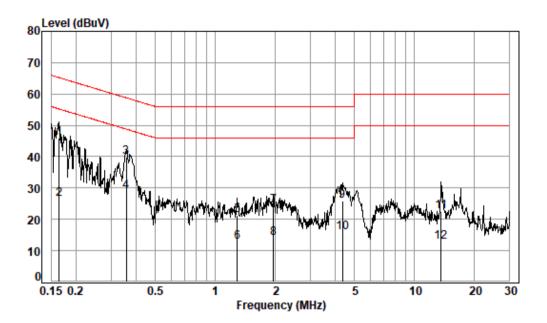
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 18 of 100



Test Mode: 01; Line: Live line

: Shielding Room Site Condition: Line Job No. : 04600AT Test mode: 01

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1650	0.06	10.17	35.70	45.93	65.21	-19.28	QP
2	0.1650	0.06	10.17	16.20	26.43	55.21	-28.78	Average
3 *	0.3577	0.07	9.74	30.06	39.87	58.78	-18.91	QP
4 *	0.3577	0.07	9.74	18.96	28.77	48.78	-20.01	Average
5	1.2892	0.09	9.58	11.58	21.25	56.00	-34.75	QP
6	1.2892	0.09	9.58	3.20	12.87	46.00	-33.13	Average
7	1.9593	0.10	9.58	14.76	24.44	56.00	-31.56	QP
8	1.9593	0.10	9.58	4.43	14.11	46.00	-31.89	Average
9	4.3376	0.12	9.66	16.17	25.95	56.00	-30.05	QP
10	4.3376	0.12	9.66	6.12	15.90	46.00	-30.10	Average
11	13.5509	0.24	9.86	12.48	22.58	60.00	-37.42	QP
12	13.5509	0.24	9.86	2.60	12.70	50.00	-37.30	Average



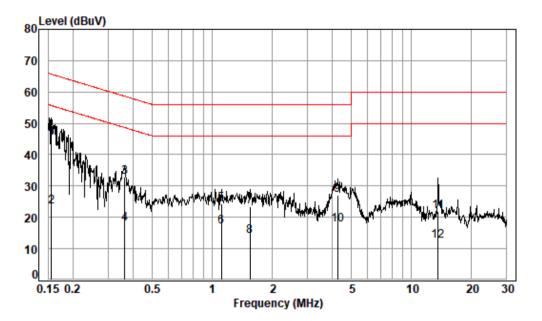
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 19 of 100



Test Mode: 01; Line: Neutral Line

: Shielding Room Site Condition: Neutral Job No. : 04600AT Test mode: 01

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
-	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1557	0.06	10.14	35.04	45.24	65.69	-20.45	QP
2	0.1557	0.06	10.14	13.15	23.35	55.69	-32.34	Average
3	0.3634	0.07	9.75	23.06	32.88	58.65	-25.77	QP
4	0.3634	0.07	9.75	7.98	17.80	48.65	-30.85	Average
5	1.1114	0.09	9.54	14.81	24.44	56.00	-31.56	QP
6	1.1114	0.09	9.54	7.48	17.11	46.00	-28.89	Average
7	1.5436	0.10	9.55	13.88	23.53	56.00	-32.47	QP
8	1.5436	0.10	9.55	4.34	13.99	46.00	-32.01	Average
9	4.2466	0.12	9.55	17.41	27.08	56.00	-28.92	QP
10 *	4.2466	0.12	9.55	8.04	17.71	46.00	-28.29	Average
11	13.5509	0.24	9.78	11.95	21.97	60.00	-38.03	QP
12	13.5509	0.24	9.78	2.51	12.53	50.00	-37.47	Average



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 20 of 100

7.2 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.

7.2.1 E.U.T. Operation

Operating Enviro	onment:					
Temperature:	22.2 °C	Humidity:	58.9 % RH	Atmospheric Pressure:	1020	mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Charge + TX_non-Hop mode_Keep the EUT1 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.
Final test	01	Charge + TX_non-Hop mode_Keep the EUT2 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.
Pre-scan	02	TX_non-Hop mode_Keep the EUT1 in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
Pre-scan	03	TX_non-Hop mode_Keep the EUT2 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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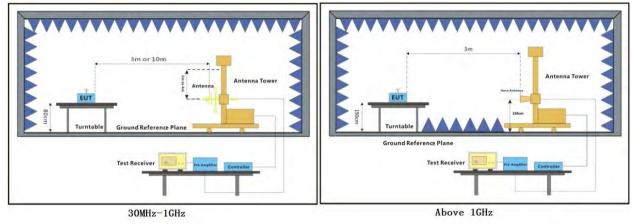
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 21 of 100

7.2.3 Test Setup Diagram





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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 22 of 100

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. 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.

Remark 3: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

Remark 4:For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is \geq 1/T (Duty cycle<98%) or 10Hz (Duty cycle \geq 98%) for Average detection (AV) at frequency above 1GHz.



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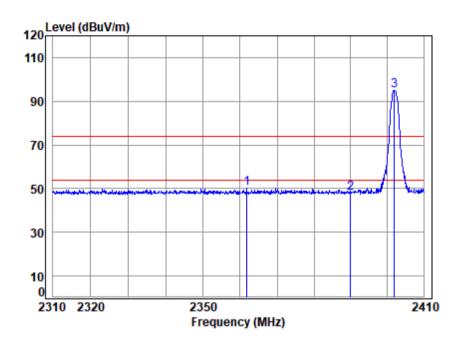
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 23 of 100

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



Condition: 3m HORIZONTAL

Job No	:	04600AT/04601AT					
Mode	:	2402 Band edge					

: 2402 Band edge RT .

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 2 3	2361.771 2390.000 pp 2402.000	6.82	27.46	31.54	45.12	47.86	74.00	-26.14	peak	



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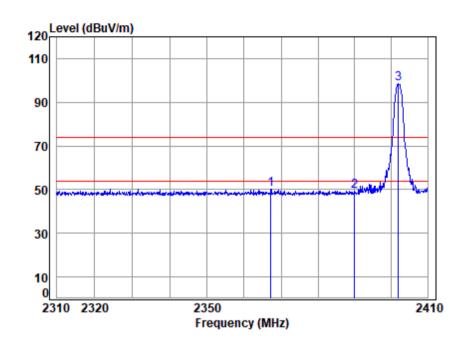
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 24 of 100

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



Condition: 3m VERTICAL 601AT

Job No	1	04600AT/04
Mode	:	2402 Band

: 2402 Band edge <u> - -</u>

	: BI									
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
			,							
1	2367.182	6 81	27 37	31.54	17 78	50 12	71 00	-23 58	neak	
1									•	
2	2390.000	6.82	27.46	31.54	46.71	49.45	74.00	-24.55	peak	
3 pp	2402.000	6.84	27.50	31.54	95.54	98.34	74.00	24.34	peak	
E F										



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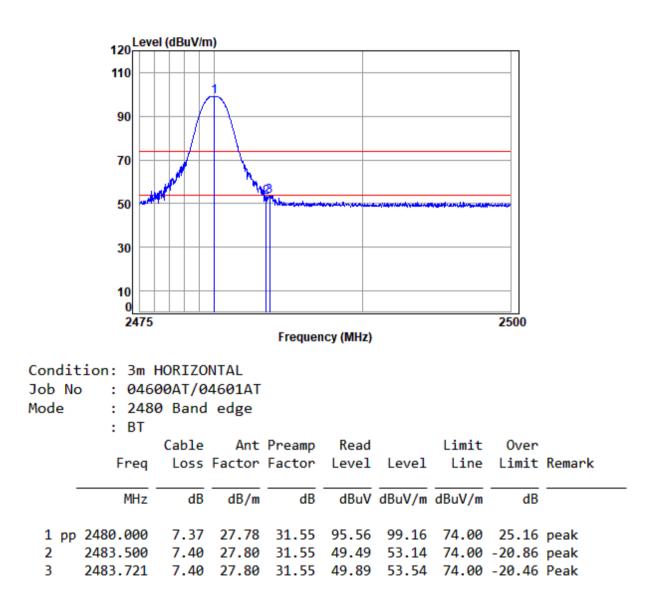
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 25 of 100

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





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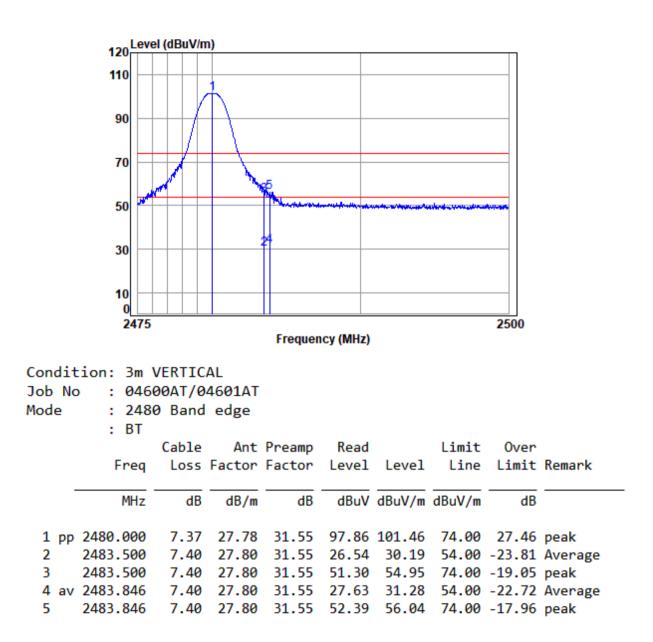
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 26 of 100

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





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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 27 of 100

7.3 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		

7.3.1 E.U.T. Operation

Operating Environment: Temperature: 23.2 °C Humidity: 55.7 % RH Atmospheric Pressure: 1020 mbar

7.3.1 Test Mode Description

Pre-scan / Final test	Mode Code	Description					
Final test	00	Charge + TX_non-Hop mode_Keep the EUT1 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.					
Final test	01	Charge + TX_non-Hop mode_Keep the EUT2 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.					
Pre-scan	02	TX_non-Hop mode_Keep the EUT1 in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.					
Pre-scan	03	TX_non-Hop mode_Keep the EUT2 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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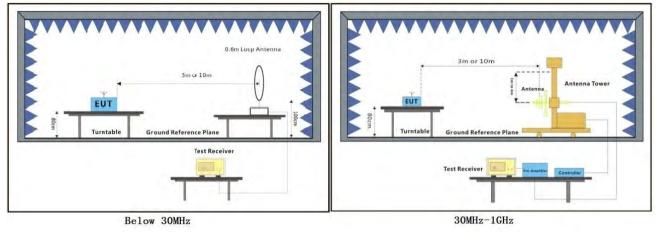
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 28 of 100

7.3.2 Test Setup Diagram



7.3.3 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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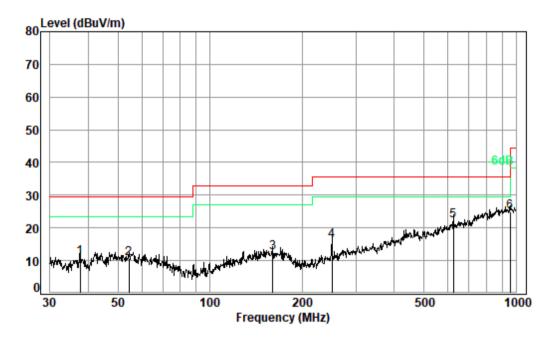
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 29 of 100

Test Mode: 00; Polarity: Horizontal



Condition: 10m HORIZONTAL Job No. : 04600AT/04601AT Test Mode: 00

: EUT1

		1							
		Read	Ant	Cable	Preamp		Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	37.680	26.32	16.70	0.47	32.50	10.99	29.50	-18.51	QP
2	54.452	24.50	18.00	0.56	32.49	10.57	29.50	-18.93	QP
3	160.346	26.14	17.78	0.99	32.50	12.41	33.00	-20.59	QP
4	250.301	31.21	15.91	1.30	32.45	15.97	35.60	-19.63	QP
5	625.078	28.06	24.59	2.16	32.75	22.06	35.60	-13.54	QP
6 pp	955.438	25.61	27.95	2.68	31.41	24.83	35.60	-10.77	QP



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Report No.: SZCR241200460002 Page: 30 of 100

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

D₁₀: 10m distance. Unit: m

The level at 3m test distance is below:

3M HORIZONTAL

SWHONIZOWAL									
Frequency	Level @ 10m	Level @	Level @	Limit @ 3m	Limit @ 3m	Over Limit	Remark		
MHz	dBuV/m	10m (uV/m)	3m (uV/m)	dBuV/m	dBuV/m	dB			
37.680	10.99	3.54	11.81	21.45	40.00	-18.55	QP		
54.452	10.57	3.38	11.26	21.03	40.00	-18.97	QP		
160.346	12.41	4.17	13.91	22.87	43.50	-20.63	QP		
250.301	15.97	6.29	20.96	26.43	43.50	-17.07	QP		
625.078	22.06	12.68	42.26	32.52	46.00	-13.48	QP		
955.438	24.83	17.44	58.13	35.29	46.00	-10.71	QP		



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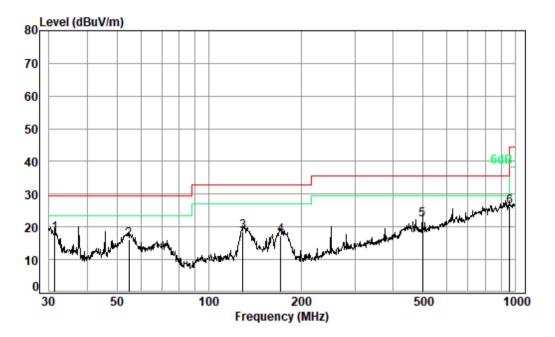
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 31 of 100

Test Mode: 00; Polarity: Vertical



Condition: 10m VERTICAL Job No. : 04600AT/04601AT Test Mode: 00

: EUT1

		-							
		Read	Ant	Cable	Preamp		Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	31.399	34.14	15.80	0.43	32.50	17.87	29.50	-11.63	QP
2	54.835	30.19	17.94	0.56	32.48	16.21	29.50	-13.29	QP
3	129.015	33.99	16.17	0.87	32.50	18.53	33.00	-14.47	QP
4	171.393	31.97	16.94	1.04	32.50	17.45	33.00	-15.55	QP
5	499.425	31.13	21.87	1.85	32.70	22.15	35.60	-13.45	QP
6 p	p 958.794	26.82	27.96	2.68	31.39	26.07	35.60	-9.53	QP
	-								-



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 32 of 100

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

D₁₀: 10m distance. Unit: m

The level at 3m test distance is below:

3M VERTICAL

Frequency	Level @ 10m	Level @	Level @	Limit @ 3m	Limit @ 3m	Over Limit	Remark		
MHz	dBuV/m	10m (uV/m)	3m (uV/m)	dBuV/m	dBuV/m	dB			
31.399	17.87	7.83	26.08	28.33	40.00	-11.67	QP		
54.835	16.21	6.46	21.55	26.67	40.00	-13.33	QP		
129.015	18.53	8.44	28.14	28.99	43.50	-14.51	QP		
171.393	17.45	7.46	24.85	27.91	43.50	-15.59	QP		
499.425	22.15	12.81	42.70	32.61	46.00	-13.39	QP		
958.794	26.07	20.11	67.05	36.53	46.00	-9.47	QP		



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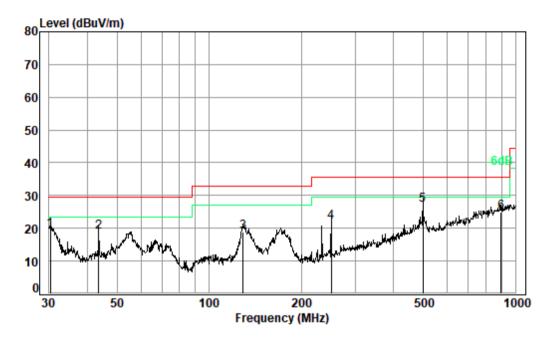
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 33 of 100

Test Mode: 01; Polarity: Vertical



Condition: 10m VERTICAL Job No. : 04600AT/04601AT Test Mode: 01

: EUT2 Read Ant Cable Preamp Limit 0ver Freq Level Factor Loss Factor Line Limit Remark Level MHz dBuV dB/m dB dB dBuV/m dBuV/m dB 19.46 29.50 -10.04 QP 1 30.317 36.06 15.48 0.42 32.50 2 43.506 33.56 17.36 0.50 32.50 18.92 29.50 -10.58 QP 3 129.015 34.32 16.17 0.87 32.50 18.86 33.00 -14.14 QP 4 250.301 37.25 15.91 1.30 32.45 22.01 35.60 -13.59 QP 5 pp 499.425 36.13 21.87 1.85 32.70 27.15 35.60 -8.45 OP 896.997 26.81 27.34 2.64 31.81 24.98 35.60 -10.62 OP 6



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 34 of 100

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

D₁₀: 10m distance. Unit: m

The level at 3m test distance is below:

3M VERTICAL									
Frequency	Level @ 10m	Level @	Level @	Limit @ 3m	Limit @ 3m	Over Limit	Remark		
MHz	dBuV/m	10m (uV/m)	3m (uV/m)	dBuV/m	dBuV/m	dB			
30.317	19.46	9.40	31.32	29.92	40.00	-10.08	QP		
43.506	18.92	8.83	29.44	29.38	40.00	-10.62	QP		
129.015	18.86	8.77	29.23	29.32	43.50	-14.18	QP		
250.301	22.01	12.60	42.01	32.47	43.50	-11.03	QP		
499.425	27.15	22.78	75.92	37.61	46.00	-8.39	QP		
896.997	24.98	17.74	59.14	35.44	46.00	-10.56	QP		



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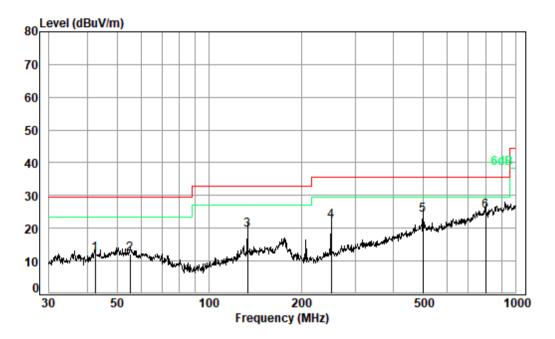
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 35 of 100

Test Mode: 01; Polarity: Horizontal



Condition: 10m HORIZONTAL Job No. : 04600AT/04601AT Test Mode: 01

: EUT2

		~							
		Read	Ant	Cable	Preamp		Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	42.451	26.92	17.14	0.49	32.50	12.05	29.50	-17.45	QP
2	55.221	26.35	17.89	0.56	32.48	12.32	29.50	-17.18	QP
3	133.619	34.61	16.58	0.88	32.50	19.57	33.00	-13.43	QP
4	250.301	37.50	15.91	1.30	32.45	22.26	35.60	-13.34	QP
5	499.425	32.87	21.87	1.85	32.70	23.89	35.60	-11.71	QP
6 pp	798.980	28.40	26.60	2.49	32.20	25.29	35.60	-10.31	QP
									-



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Report No.: SZCR241200460002 Page: 36 of 100

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

D₁₀: 10m distance. Unit: m

The level at 3m test distance is below:

3M HORIZONTAL									
Frequency	Level @ 10m	Level @	Level @	Limit @ 3m	Limit @ 3m	Over Limit	Remark		
MHz	dBuV/m	10m (uV/m)	3m (uV/m)	dBuV/m	dBuV/m	dB			
42.451	12.05	4.00	13.35	22.51	40.00	-17.49	QP		
55.221	12.32	4.13	13.77	22.78	40.00	-17.22	QP		
133.619	19.57	9.52	31.72	30.03	43.50	-13.47	QP		
250.301	22.26	12.97	43.24	32.72	43.50	-10.78	QP		
499.425	23.89	15.65	52.16	34.35	46.00	-11.65	QP		
798.980	25.29	18.39	61.29	35.75	46.00	-10.25	QP		



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Report No.: SZCR241200460002 Page: 37 of 100

7.4 Radiated Spurious Emissions Above 1GHz

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

Limit:

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

7.4.1 E.U.T. Operation

Operating Enviro	onment:					
Temperature:	23.2 °C	Humidity:	55.7 % RH	Atmospheric Pressure: 1	1020	mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	TX_non-Hop mode_Keep the EUT1 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 EUT2 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.
Pre-scan	02	TX_non-Hop mode_Keep the EUT1 in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
Pre-scan	03	TX_non-Hop mode_Keep the EUT2 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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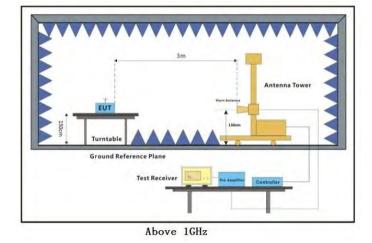
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 38 of 100

7.4.3 Test Setup Diagram



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 39 of 100

7.4.4 Measurement Procedure and Data

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

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

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

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

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

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

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

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

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

Remark:

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

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

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

4: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

5:For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is \geq 1/T (Duty cycle<98%) or 10Hz (Duty cycle \geq 98%) for Average detection (AV) at frequency above 1GHz.



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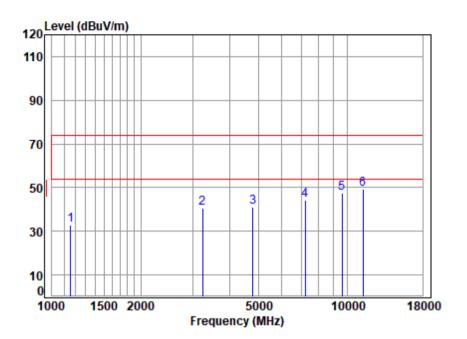
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 40 of 100

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



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT

Job No	:	04600	ЭАТ/	/0460
Mode	:	2402	ТΧ	RSE

: 2402 TX RSE

	: DI								
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1158.828	7.15	25.38	54.70	54.93	32.76	74.00	-41.24	peak
2	3242.619	7.65	29.29	55.15	58.63	40.42	74.00	-33.58	peak
3	4804.000	8.90	31.92	56.16	56.22	40.88	74.00	-33.12	peak
4	7206.000	11.10	36.60	56.54	52.99	44.15	74.00	-29.85	peak
5	9608.000	12.38	38.78	54.45	50.71	47.42	74.00	-26.58	peak
6	pp11302.480	14.39	39.70	53.59	49.00	49.50	74.00	-24.50	peak



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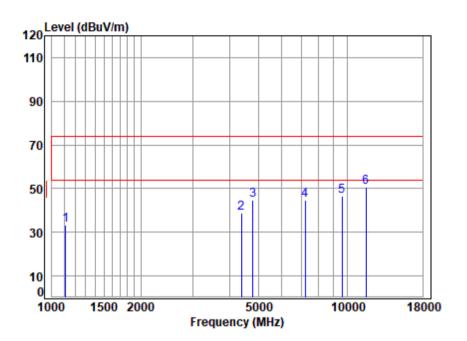
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 41 of 100

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



Condition:	3m VERTICAL
Job No :	04600AT/04601

lob No : 04600AT/0460

Mode	:	2402	ТΧ	RSE
	:	BT		

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1112.872								•
2	4379.699 4804.000								•
4	7206.000								•
	9608.000 pp11600.350								•
-									F



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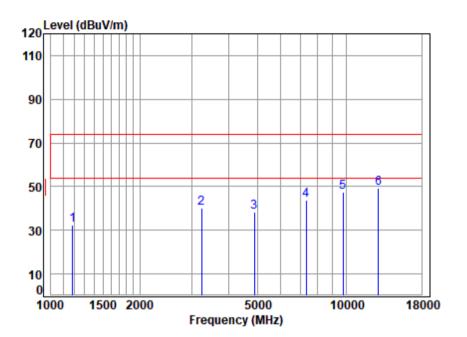
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 42 of 100

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



Condition:	3m HORIZONTAL
Job No :	04600AT/04601AT

Job No	- 1	04606	ða i j	/0460	l
Mode	:	2441	ΤХ	RSE	

рт

	: DI								
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1185.936	7.18	25.33	54.70	54.78	32.59	74.00	-41.41	peak
2	3233.260	7.66	29.27	55.14	58.55	40.34	74.00	-33.66	peak
3	4882.000	8.98	32.16	56.22	53.44	38.36	74.00	-35.64	peak
4	7323.000	11.12	36.75	56.44	52.27	43.70	74.00	-30.30	peak
5	9764.000	12.86	38.60	54.31	50.30	47.45	74.00	-26.55	peak
6	pp12835.290	15.18	40.34	54.38	48.20	49.34	74.00	-24.66	peak



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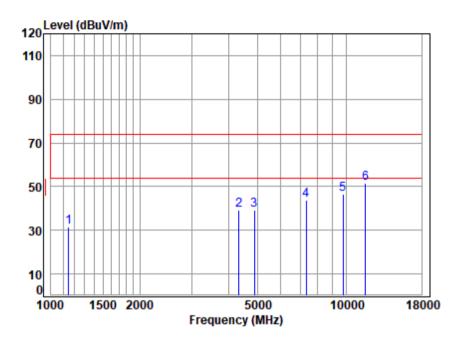
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 43 of 100

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



Condition:	3m VERTICAL
Job No :	04600AT/04601

obNo :0	4600AT/04601AT
---------	----------------

Mode	:	2441	ТΧ	RSE
	:	BT		

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1148.823	7.14	25.40	54.70	53.66	31.50	74.00	-42.50	peak
2	4329.354	8.48	31.30	55.83	55.08	39.03	74.00	-34.97	peak
3	4882.000	8.98	32.16	56.22	54.12	39.04	74.00	-34.96	peak
4	7323.000	11.12	36.75	56.44	52.31	43.74	74.00	-30.26	peak
5	9764.000	12.86	38.60	54.31	49.27	46.42	74.00	-27.58	peak
6	pp11633.930	14.45	39.57	53.69	51.24	51.57	74.00	-22.43	peak



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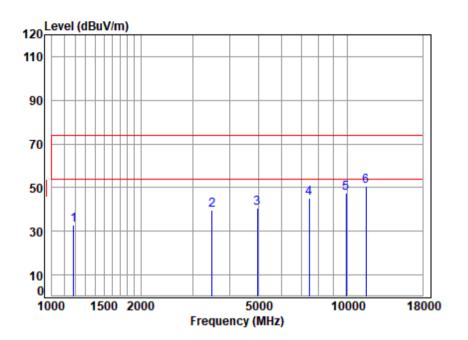
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 44 of 100

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



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT

Job No	:	04600	ЭАТ/	046
Mode	:	2480	ТΧ	RSE

з.	2480
	RT

	: DI									
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	1182.513	7.17	25.33	54.70	54.84	32.64	74.00	-41.36	peak	
2	3485.601	7.72	29.54	55.29	57.86	39.83	74.00	-34.17	peak	
3	4960.000	9.07	32.20	56.27	55.82	40.82	74.00	-33.18	peak	
4	7440.000	11.08	36.78	56.35	53.81	45.32	74.00	-28.68	peak	
5	9920.000	12.73	38.90	54.17	49.90	47.36	74.00	-26.64	peak	
6	pp11600.350	14.48	39.60	53.68	50.36	50.76	74.00	-23.24	peak	



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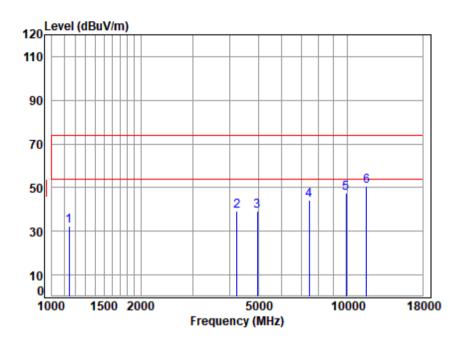
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 45 of 100

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



Condition:	3m VERTICAL
Job No :	04600AT/04601

Mode

lode	≘ : 2480 : BT	0 TX R	SE						
		Cable		Preamp			Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1142.201	7.14	25.43	54.70	54.54	32.41	74.00	-41.59	peak
2	4230.396	8.49	30.98	55.76	55.38	39.09	74.00	-34.91	peak
3	4960.000	9.07	32.20	56.27	54.43	39.43	74.00	-34.57	peak
4	7440.000	11.08	36.78	56.35	52.92	44.43	74.00	-29.57	peak
5	9920.000	12.73	38.90	54.17	49.81	47.27	74.00	-26.73	peak
6	pp11633.930	14.45	39.57	53.69	50.49	50.82	74.00	-23.18	peak



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 46 of 100

7.5 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	

7.5.1 E.U.T. Operation

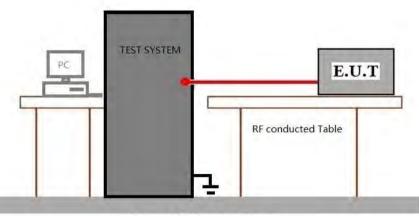
Operating Environment:

Temperature: 23.2 °C Humidity: 48.1 % RH Atmospheric Pressure: 1020 m	Humidity: 48.1 % RH Atmospheric Pressure: 1020 mba	Humidity	23.2 °C	Temperature:
---	--	----------	---------	--------------

7.5.2 Test Mode Description

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

7.5.3 Test Setup Diagram



Ground Reference Plane



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 47 of 100

7.5.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 48 of 100

7.6 20dB Bandwidth

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

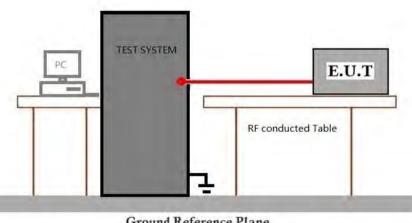
7.6.1 E.U.T. Operation

Operating Enviro	nment:					
Temperature:	23.2 °C	Humidity:	48.1 % RH	Atmospheric Pressure:	1020	mbar

7.6.2 Test Mode Description

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

7.6.3 Test Setup Diagram



Ground Reference Plane

7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 49 of 100

7.7 Carrier Frequencies Separation

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

Limit:

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

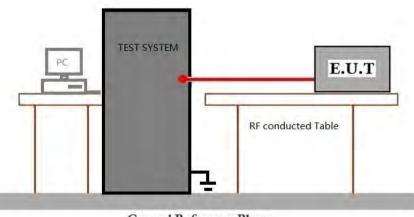
7.7.1 E.U.T. Operation

Operating Enviror	nment:					
Temperature:	23.2 °C	Humidity:	48.1 % RH	Atmospheric Pressure:	1020	mbar

7.7.2 Test Mode Description

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

7.7.3 Test Setup Diagram



Ground Reference Plane

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7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 50 of 100

7.8 Hopping Channel Number

Test Requirement	47 CFR Part 15, Subpart C 15.247a(1)(iii)
Test Method:	ANSI C63.10 (2013) Section 7.8.3

Limit:

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

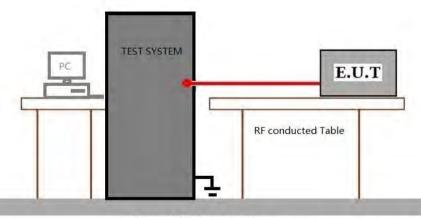
7.8.1 E.U.T. Operation

Operating Enviro	nment:					
Temperature:	23.2 °C	Humidity:	48.1 % RH	Atmospheric Pressure:	1020	mbar

7.8.2 Test Mode Description

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

7.8.3 Test Setup Diagram



Ground Reference Plane

7.8.4 Measurement Procedure and Data

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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 51 of 100

7.9 Dwell Time

Test Requirement	47 CFR Part 15, Subpart C 15.247a(1)(iii)
Test Method:	ANSI C63.10 (2013) Section 7.8.4

Limit:

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

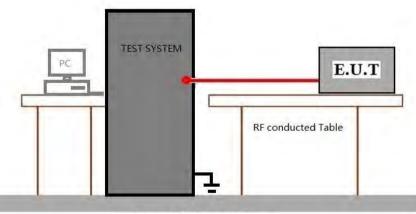
7.9.1 E.U.T. Operation

Operating Enviro	onment:					
Temperature:	23.2 °C	Humidity:	48.1 % RH	Atmospheric Pressure:	1020	mbar

7.9.2 Test Mode Description

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

7.9.3 Test Setup Diagram



Ground Reference Plane

7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 52 of 100

7.10 Conducted Band Edges Measurement

Test Requirement Test Method:

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

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c).

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C Humidity: 48.1 % RH

Atmospheric Pressure: 1020 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.

7.10.2 Test Mode Description



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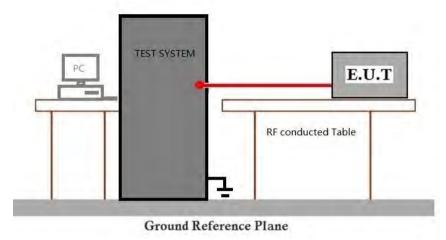
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 53 of 100

7.10.3 Test Setup Diagram



7.10.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 54 of 100

7.11 Conducted Spurious Emissions

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

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.205(c).

7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C

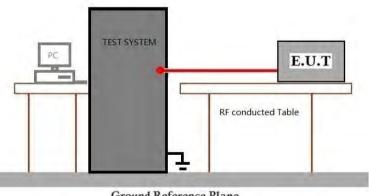
Humidity: 48.1 % RH

Atmospheric Pressure: 1020 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.

7.11.2 Test Mode Description

7.11.3 Test Setup Diagram



Ground Reference Plane

7.11.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 55 of 100

8 Test Setup Photo

Please refer to SZCR2412004600Appendix_WLAN Setup Photo

9 EUT Constructional Details (EUT Photos)

Please refer to SZCR2412004600 Appendix_External Photo and Internal Photo.



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 56 of 100

10 Appendix

1. Bandwidth

1.1 Test Result

1.1.1 OBW

Mode	ТΧ	Frequency	cy Packet ANT	ΔΝΙΤ	99% Occupied Bandwidth (MHz)		Verdict
wode	Туре	(MHz)		Result	Limit	verdict	
		2402	DH5	1	0.865	/	Pass
GFSK	SISO	2441	DH5	1	0.865	/	Pass
		2480	DH5	1	0.870	/	Pass
	SISO	2402	2DH5	1	1.174	/	Pass
Pi/4DQPSK		2441	2DH5	1	1.173	/	Pass
		2480	2DH5	1	1.176	/	Pass
		2402	3DH5	1	1.179	/	Pass
8DPSK	SISO	2441	3DH5	1	1.179	/	Pass
		2480	3DH5	1	1.181	/	Pass

1.1.2 20dB BW

Mode	ΤХ	Frequency Packet			20dB Bandwidth (MHz)		Verdict
Mode	Туре	(MHz)	Type ANT	Result	Limit	Verdici	
		2402	DH5	1	0.946	/	Pass
GFSK	SISO	2441	DH5	1	0.948	/	Pass
		2480	DH5	1	0.949	/	Pass
	SISO	2402	2DH5	1	1.290	/	Pass
Pi/4DQPSK		2441	2DH5	1	1.289	/	Pass
		2480	2DH5	1	1.291	/	Pass
		2402	3DH5	1	1.305	/	Pass
8DPSK	SISO	2441	3DH5	1	1.304	/	Pass
		2480	3DH5	1	1.304	/	Pass



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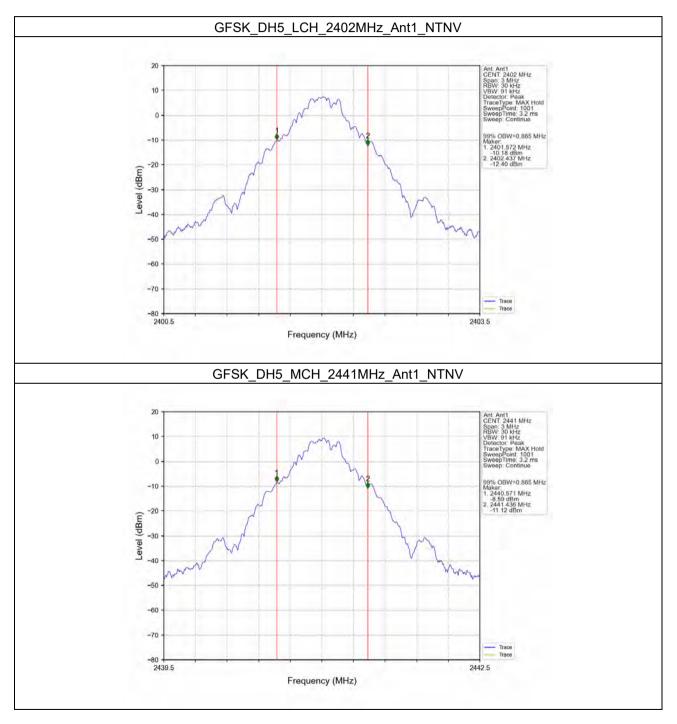


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 57 of 100

1.2 Test Graph

1.2.1 OBW





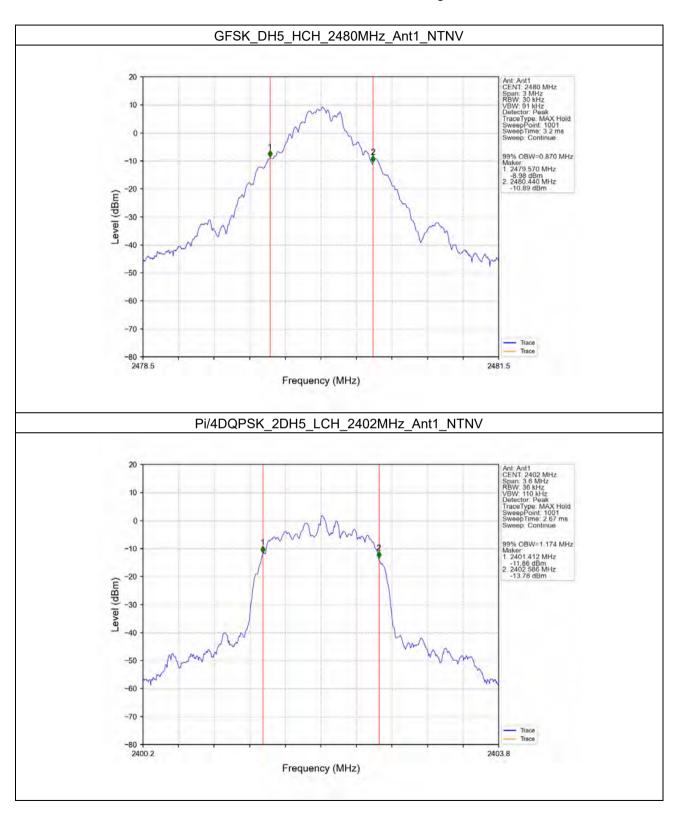
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 58 of 100





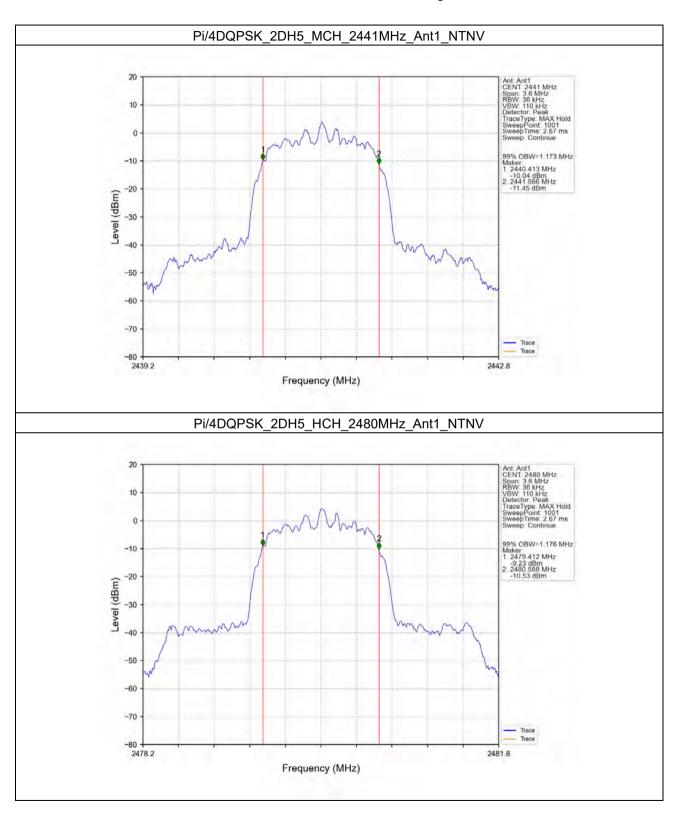
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Report No.: SZCR241200460002 Page: 59 of 100





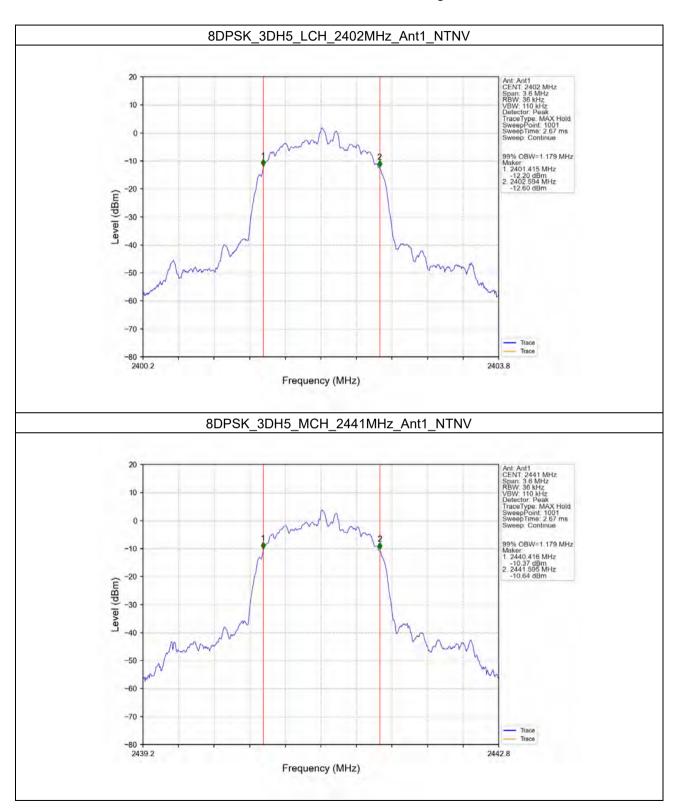
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Report No.: SZCR241200460002 Page: 60 of 100





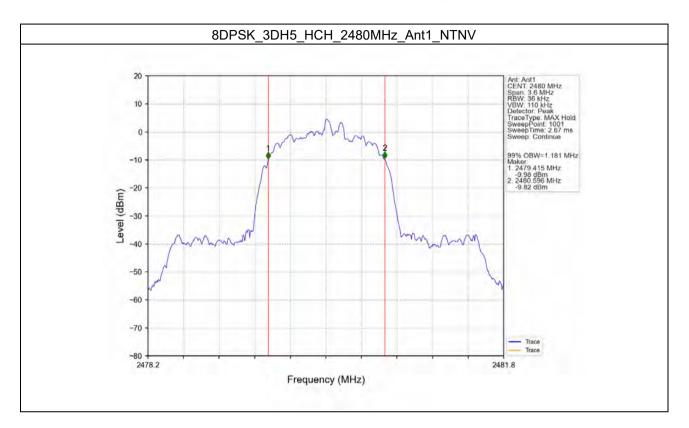
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 61 of 100





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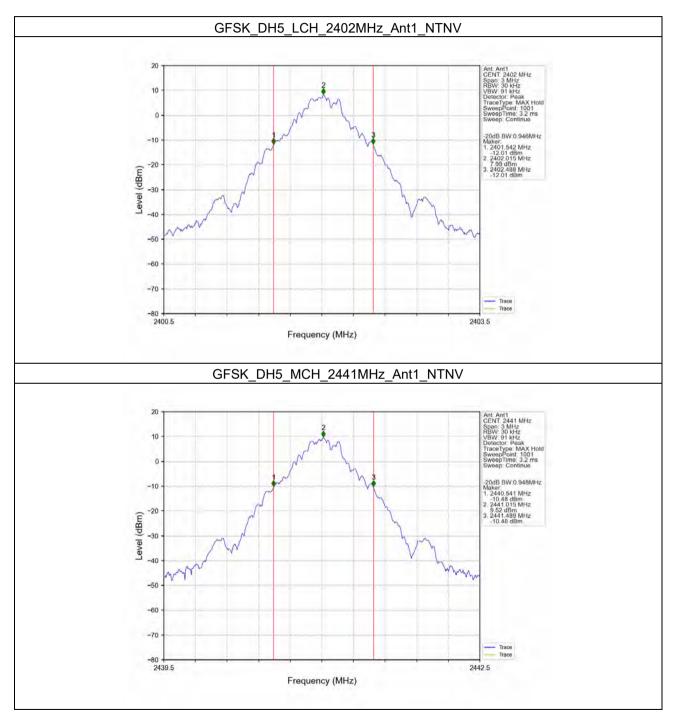
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 62 of 100

1.2.2 20dB BW





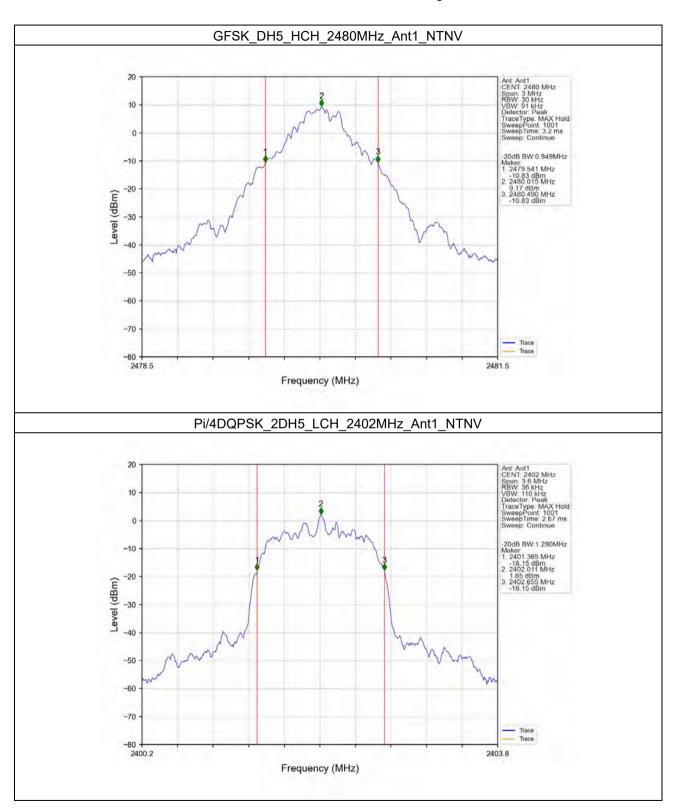
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 63 of 100





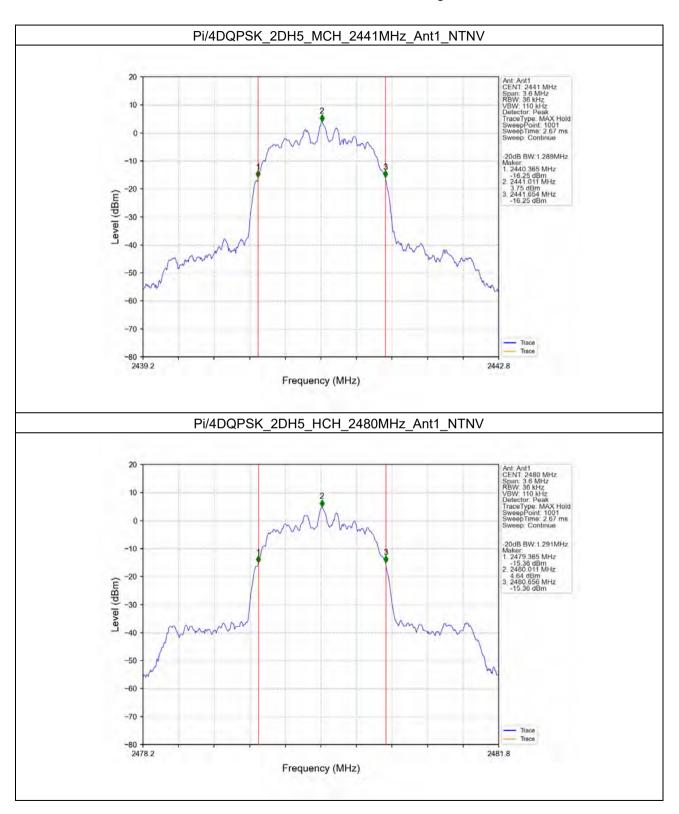
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 64 of 100





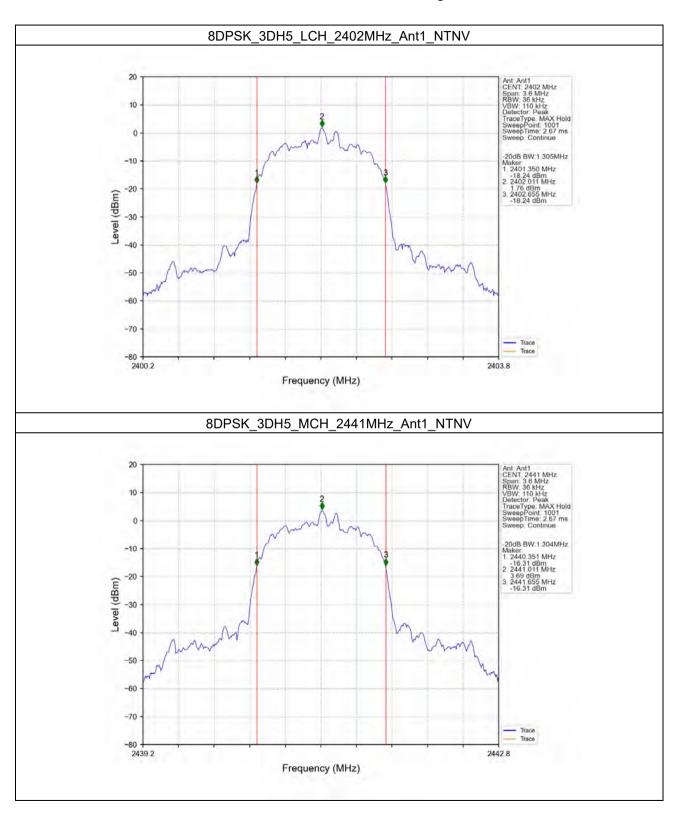
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Report No.: SZCR241200460002 Page: 65 of 100





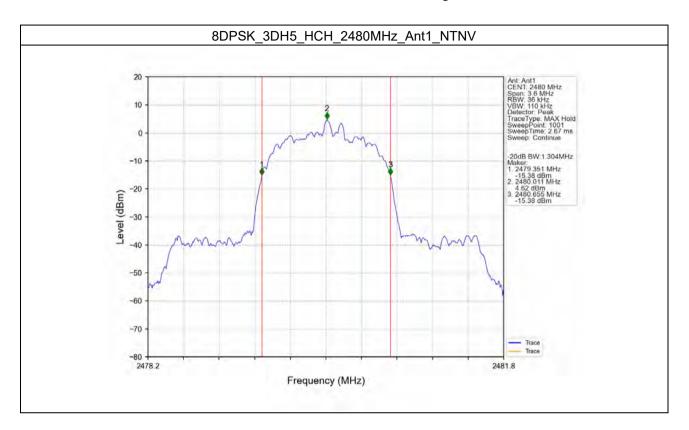
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Report No.: SZCR241200460002 Page: 66 of 100





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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 67 of 100

2. Maximum Conducted Output Power

2.1 Test Result

2.1.1 Power

Mode	TX	Frequency	Packet	Maximum Peak Cond (dE	Verdict			
	Туре	(MHz)	Туре	ANT1	Limit			
		2402	DH5	5.08	<=30	Pass		
GFSK	SISO	2441	DH5	7.03	<=30	Pass		
		2480	DH5	7.74	<=30	Pass		
	SISO	2402	2DH5	5.56	<=20.97	Pass		
Pi/4DQPSK		SISO	2441	2DH5	7.40	<=20.97	Pass	
		2480	2DH5	8.10	<=20.97	Pass		
		2402	3DH5	5.66	<=20.97	Pass		
8DPSK	SISO	2441	3DH5	7.57	<=20.97	Pass		
		2480	3DH5	8.22	<=20.97	Pass		
Note1: Antenr	Note1: Antenna Gain: Ant1: 2.01dBi;							

3. Carrier Frequency Separation

3.1 Test Result

3.1.1 Ant1

	Ant1									
Mode	ТХ Туре	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict			
GFSK	SISO	HOPP	DH5	0.976	0.949	>=0.949	Pass			
Pi/4DQPSK	SISO	HOPP	2DH5	1.015	1.291	>=0.861	Pass			
8DPSK	SISO	HOPP	3DH5	1.001	1.305	>=0.87	Pass			



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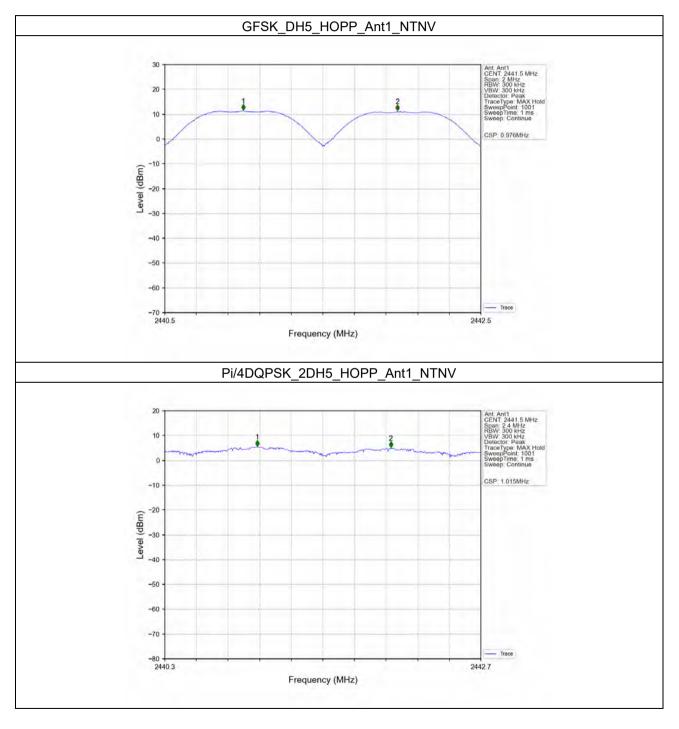


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 68 of 100

3.2 Test Graph

3.2.1 Ant1





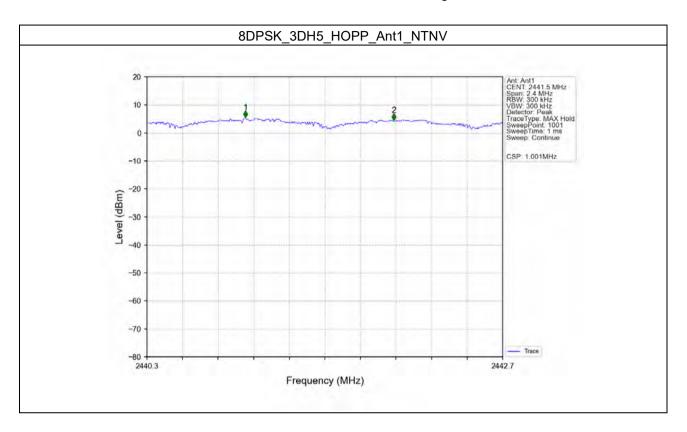
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 69 of 100





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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 70 of 100

4. Number of Hopping Frequencies

4.1 Test Result

4.1.1 HoppNum

Mode	ТΧ	TX Frequency Type (MHz)	Packet Type	Num of Hopping Frequencies		Verdict
	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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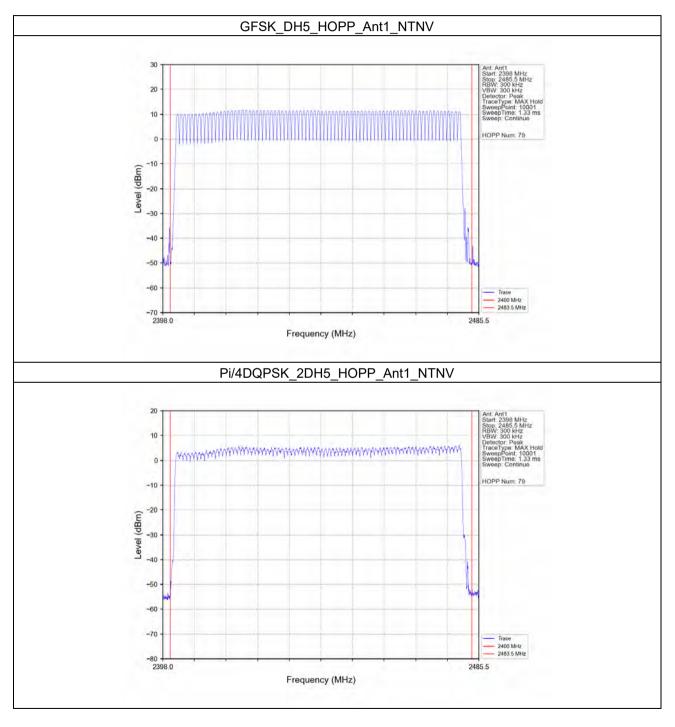


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Report No.: SZCR241200460002 Page: 71 of 100

4.2 Test Graph

4.2.1 HoppNum





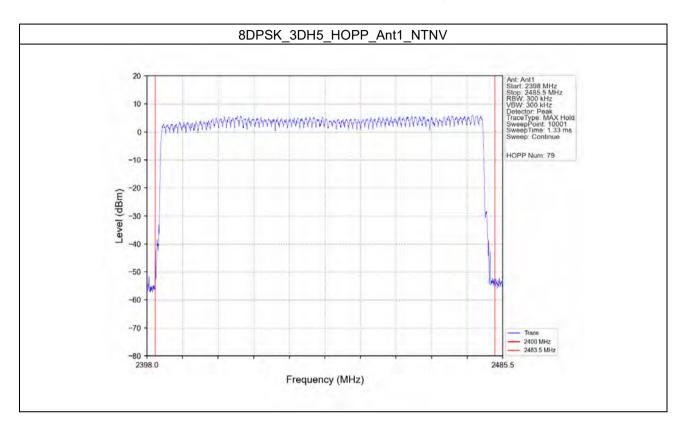
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SZEMC-TRF-01 Rev. A/1

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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 73 of 100

5. Time of Occupancy (Dwell Time)

5.1 Test Result

5.1.1 Ant1

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	SISO	HOPP	DH1	0.386	31.600	313	120.818	<=400	Pass
			DH3	1.666	31.600	157	261.562	<=400	Pass
			DH5	2.910	31.600	94	273.540	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.412	31.600	310	127.720	<=400	Pass
			2DH3	1.644	31.600	163	267.972	<=400	Pass
			2DH5	2.912	31.600	103	299.936	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.414	31.600	315	130.410	<=400	Pass
			3DH3	1.664	31.600	150	249.600	<=400	Pass
			3DH5	2.914	31.600	107	311.798	<=400	Pass



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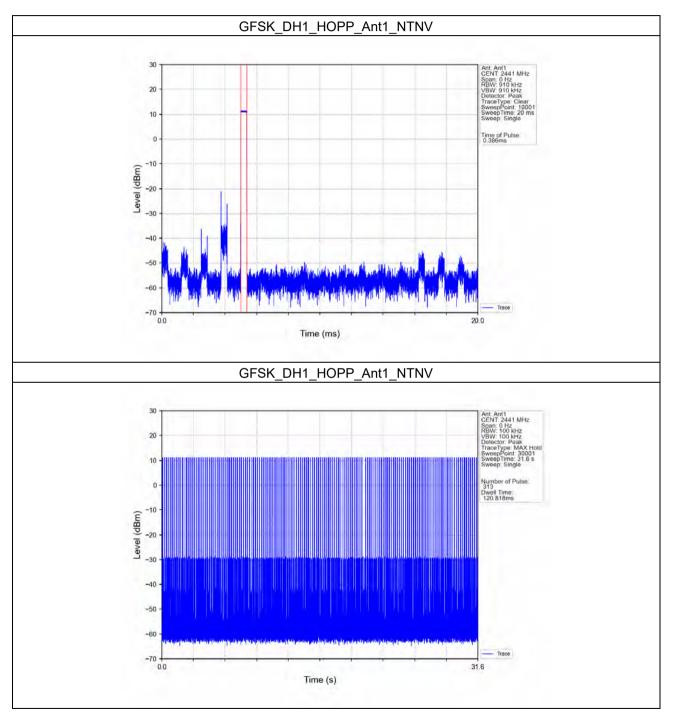


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Report No.: SZCR241200460002 Page: 74 of 100

5.2 Test Graph

5.2.1 Ant1





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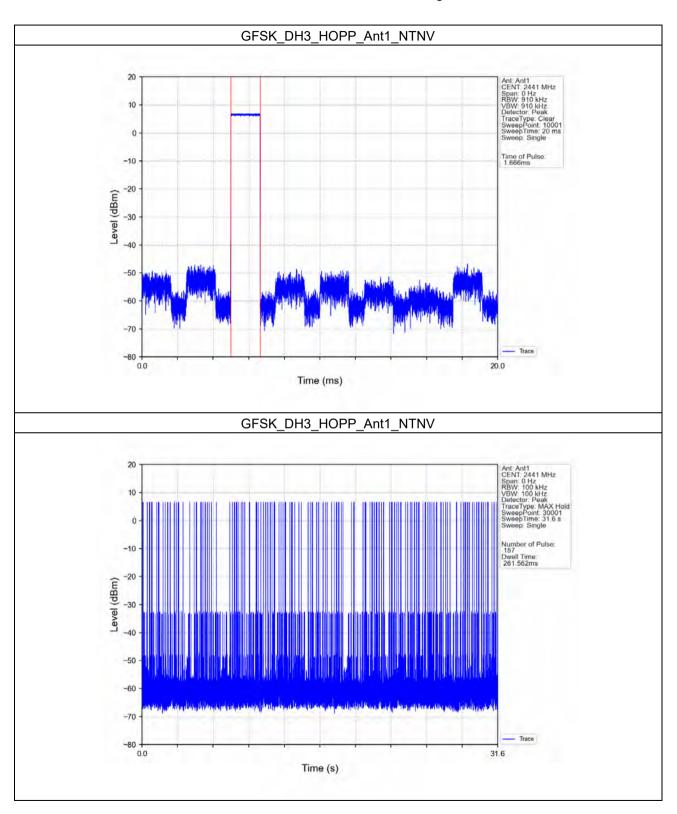


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Report No.: SZCR241200460002 Page: 75 of 100



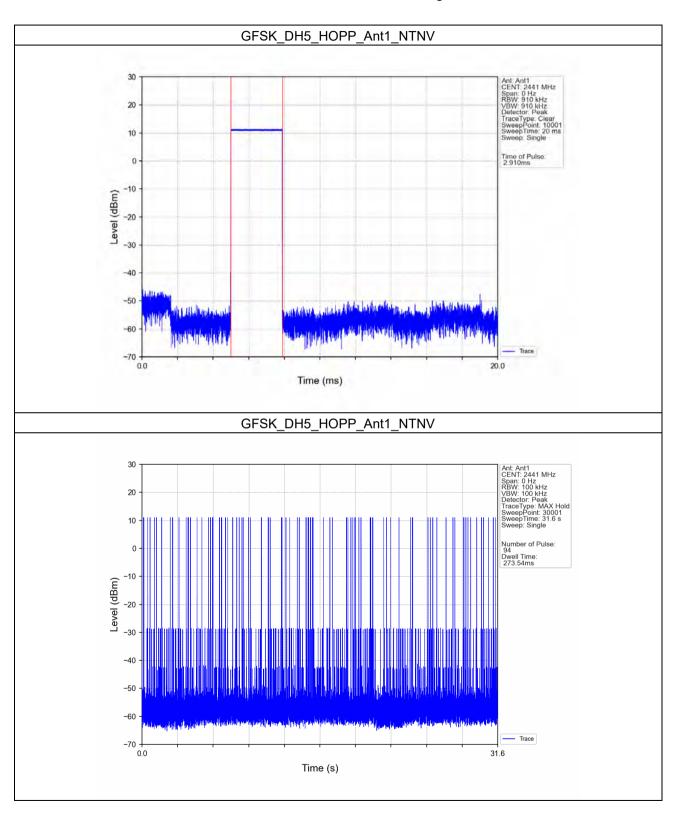
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 76 of 100





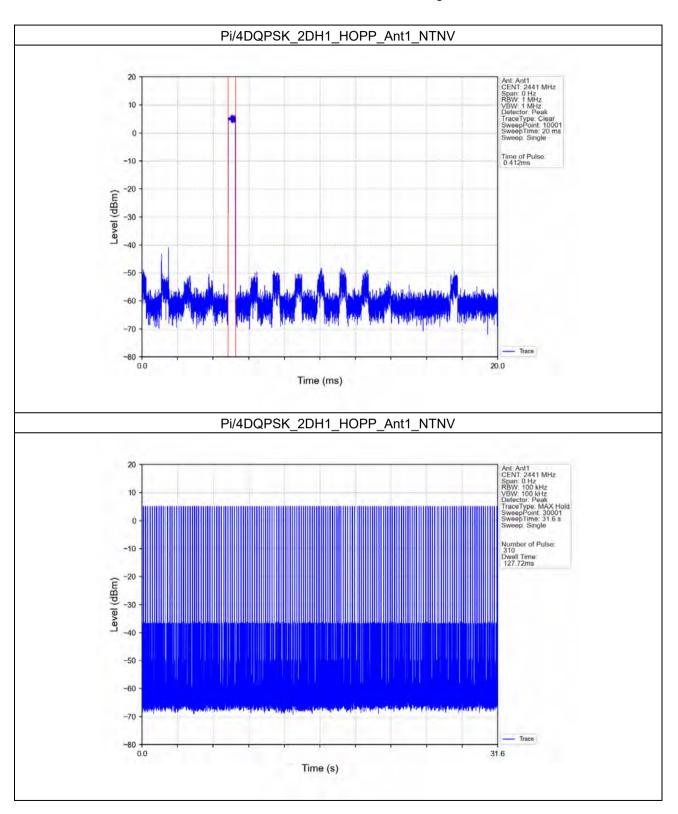
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 77 of 100





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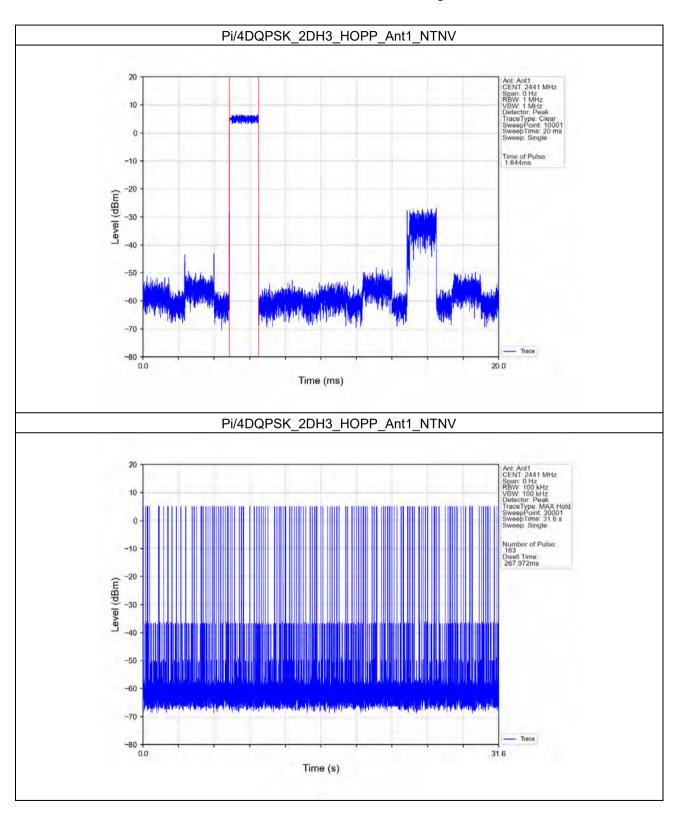
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 78 of 100





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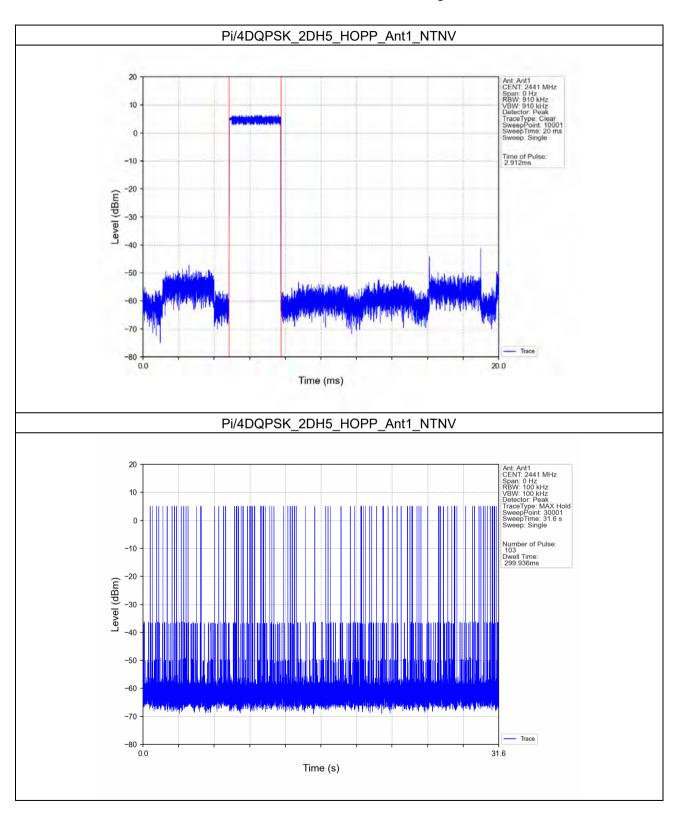


SZEMC-TRF-01 Rev. A/1

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Report No.: SZCR241200460002 Page: 79 of 100



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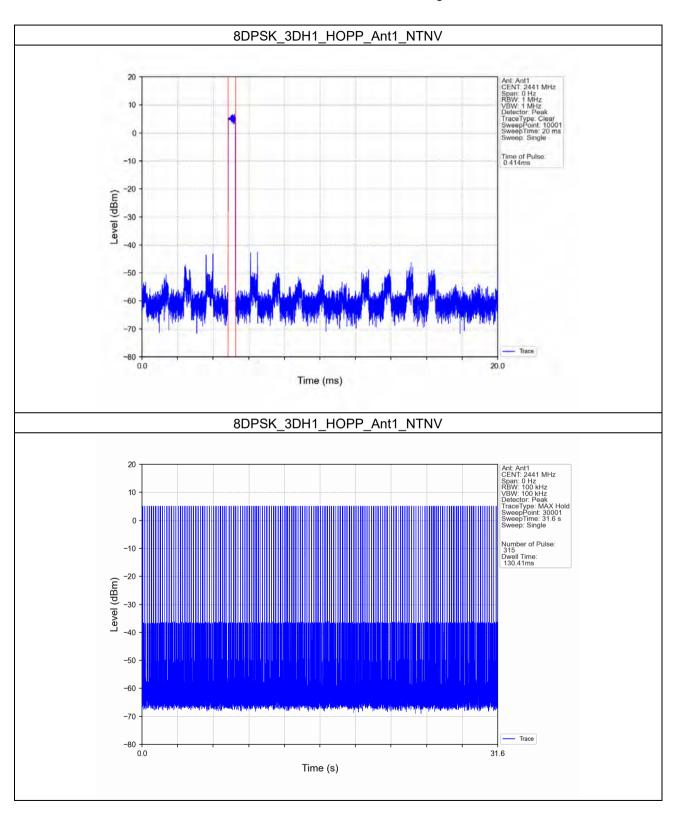


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Report No.: SZCR241200460002 Page: 80 of 100



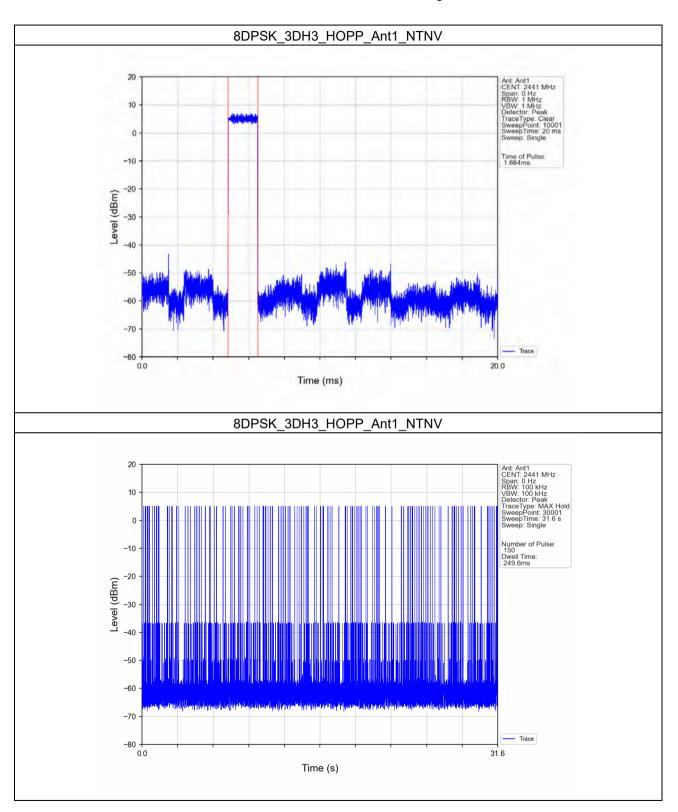


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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 81 of 100





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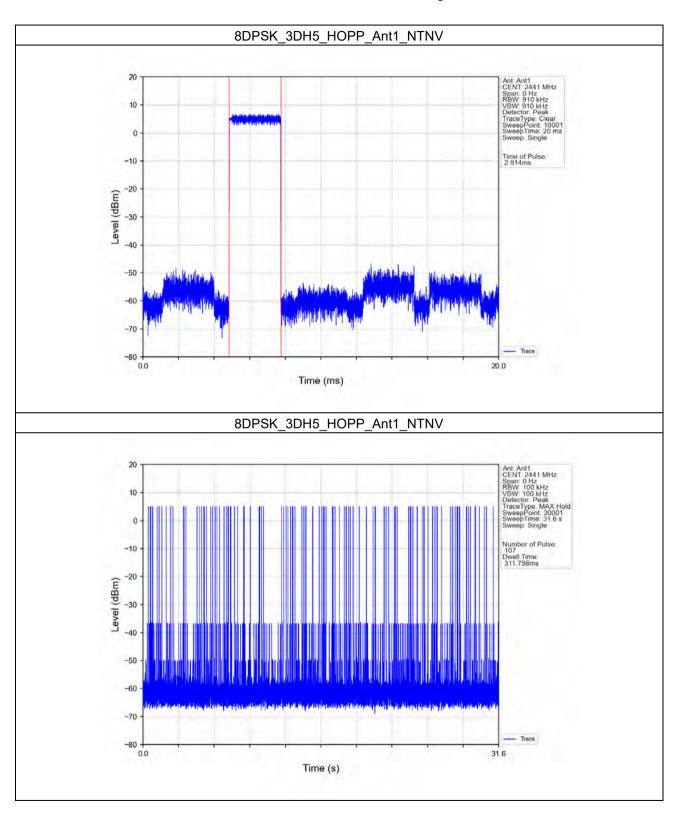
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Report No.: SZCR241200460002 Page: 82 of 100



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 83 of 100

6. Unwanted Emissions In Non-restricted Frequency Bands

6.1 Test Result

6.1.1 Ref

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	
		2402	DH5	1	9.65	
GFSK	SISO	2441 DH5 1		1	11.08	
		2480	DH5	1	10.77	
	SISO	2402	2DH5	1	3.30	
Pi/4DQPSK		2441	2DH5	1	5.06	
		2480	2DH5	1	6.09	
		2402	3DH5	1	3.25	
8DPSK	SISO	2441	3DH5	1	5.14	
		2480	3DH5	1	6.08	
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.						



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 84 of 100

6.1.2 CSE

Mode	ТХ Туре	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	11.08	-8.92	Pass
		2441	DH5	1	11.08	-8.92	Pass
		2480	DH5	1	11.08	-8.92	Pass
		HOPP	DH5	1	11.08	-8.92	Pass
					11.08	-8.92	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	6.09	-13.91	Pass
		2441	2DH5	1	6.09	-13.91	Pass
		2480	2DH5	1	6.09	-13.91	Pass
		HOPP	2DH5	1	6.09	-13.91	Pass
					6.09	-13.91	Pass
8DPSK	SISO	2402	3DH5	1	6.08	-13.92	Pass
		2441	3DH5	1	6.08	-13.92	Pass
		2480	3DH5	1	6.08	-13.92	Pass
		HOPP	3DH5	1	6.08	-13.92	Pass
					6.08	-13.92	Pass
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.							



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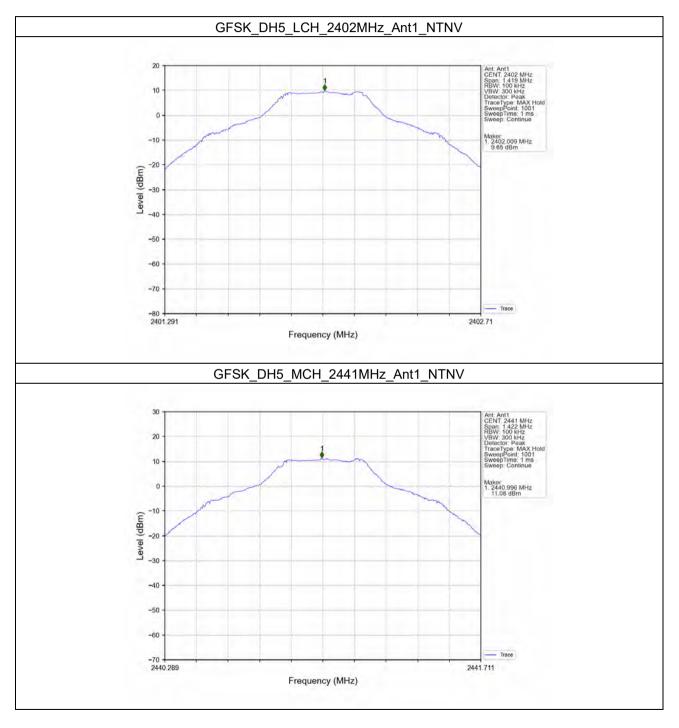


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 85 of 100

6.2 Test Graph

6.2.1 Ref





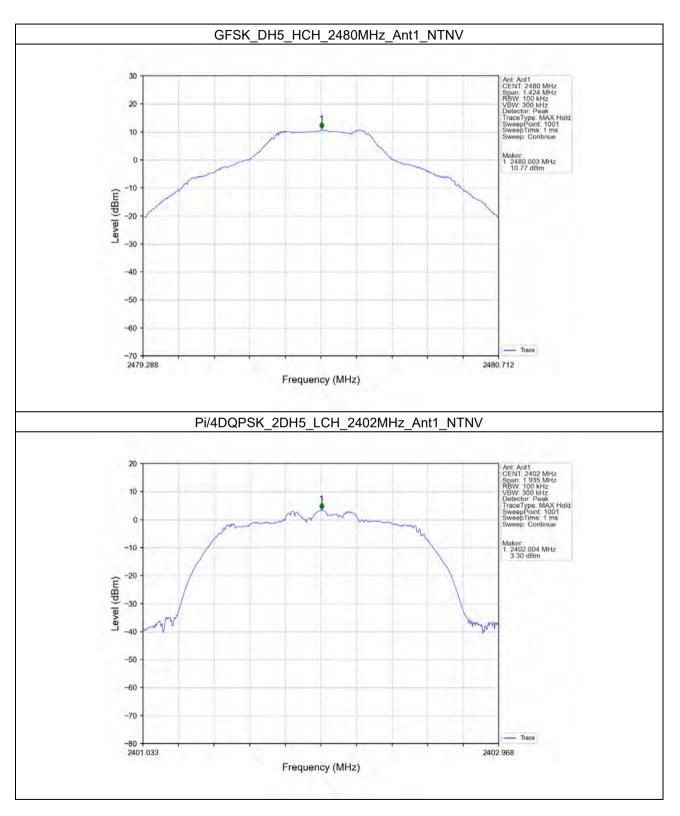
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Report No.: SZCR241200460002 Page: 86 of 100





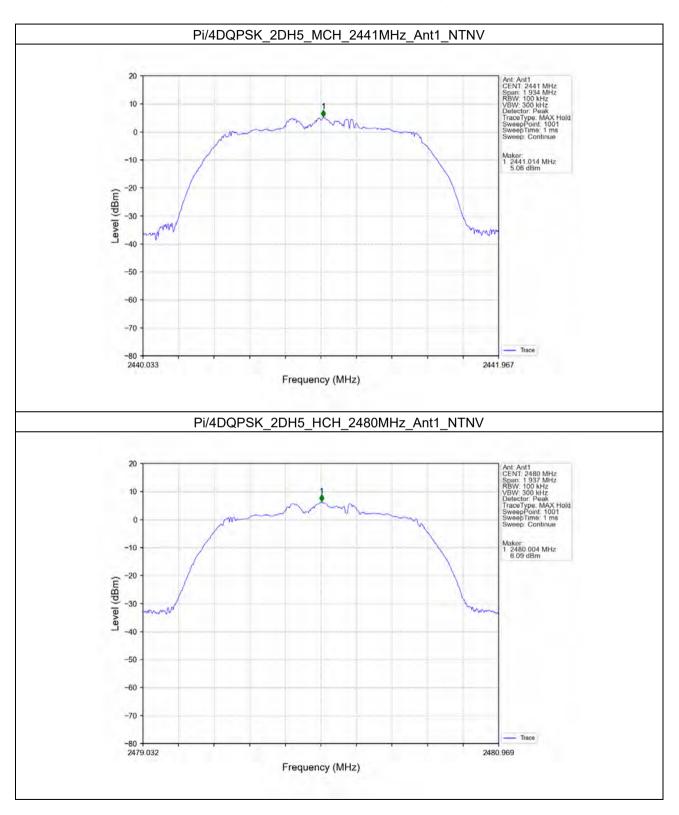
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Report No.: SZCR241200460002 Page: 87 of 100





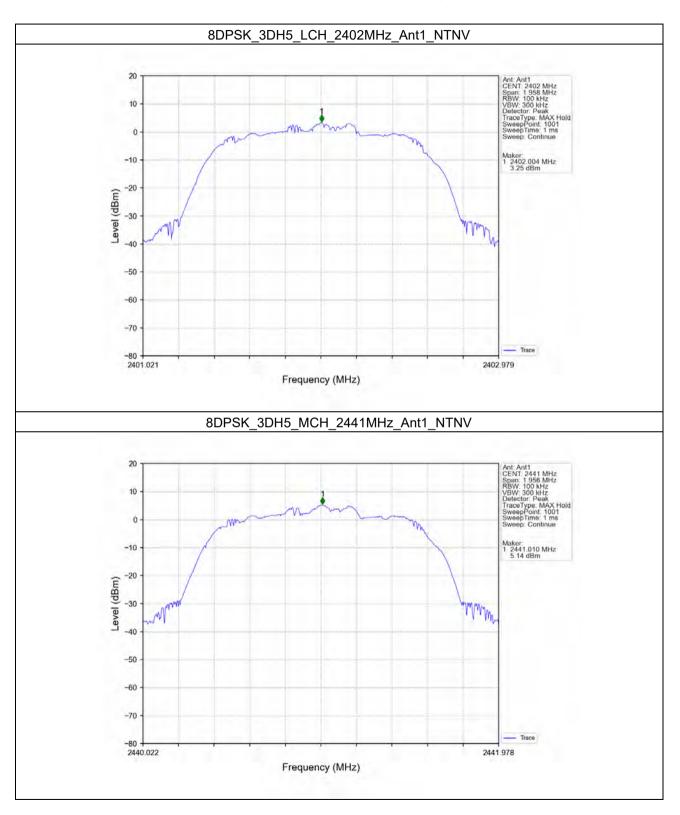
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Report No.: SZCR241200460002 Page: 88 of 100





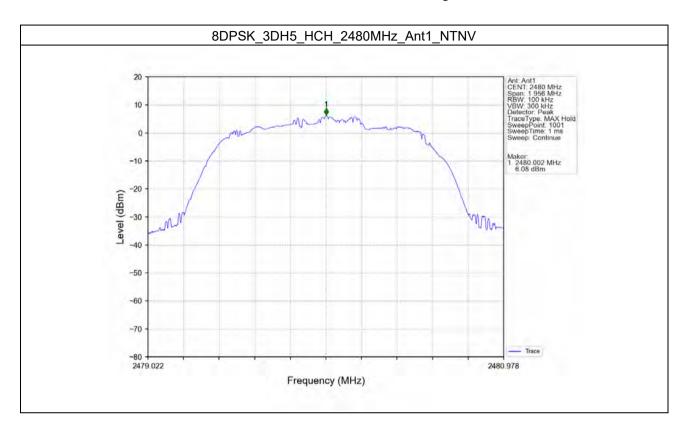
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SZEMC-TRF-01 Rev. A/1

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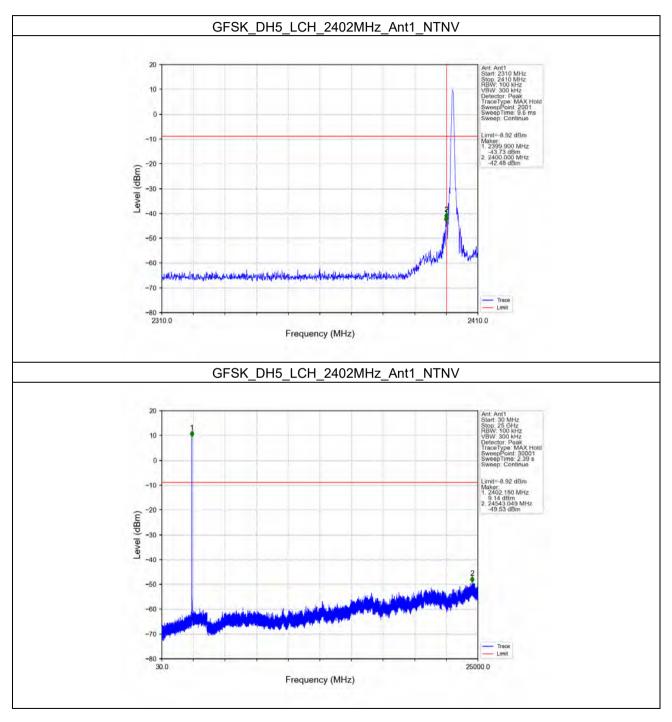
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 90 of 100

6.2.2 CSE





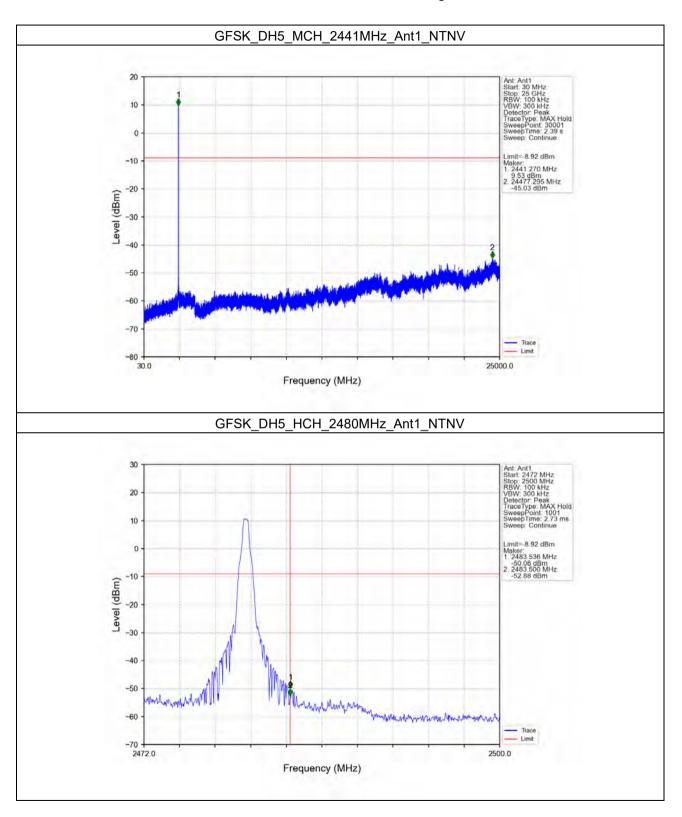
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 91 of 100





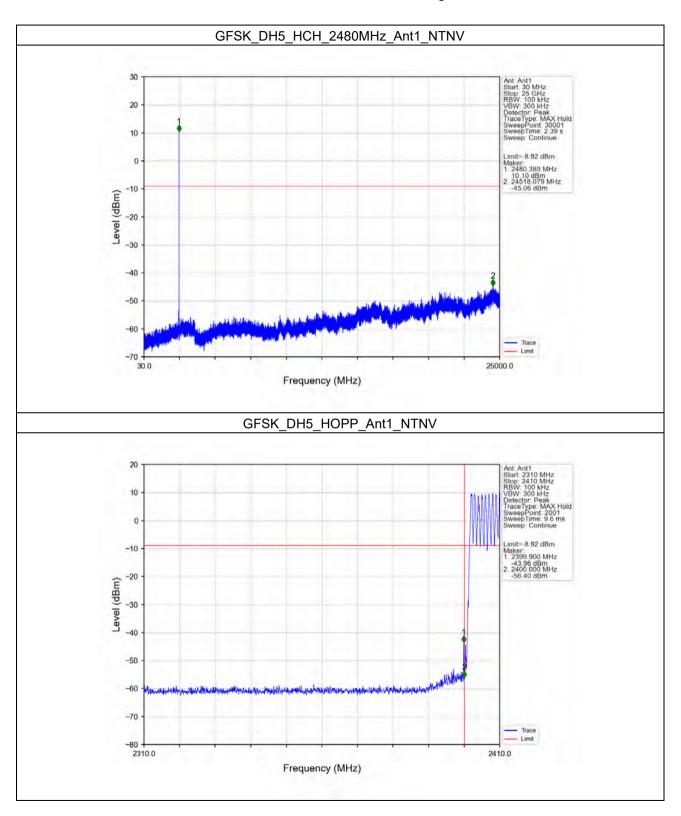
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 92 of 100





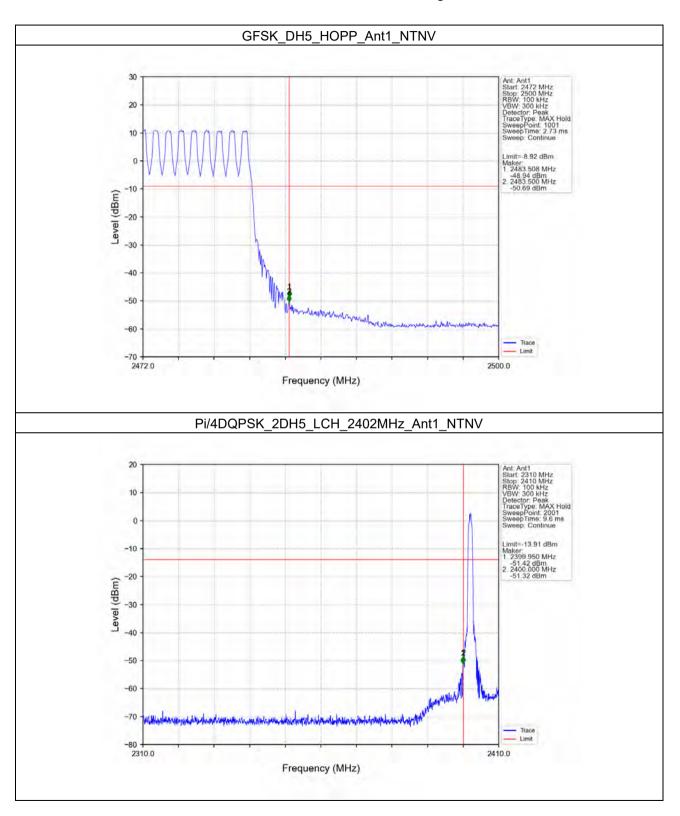
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 93 of 100





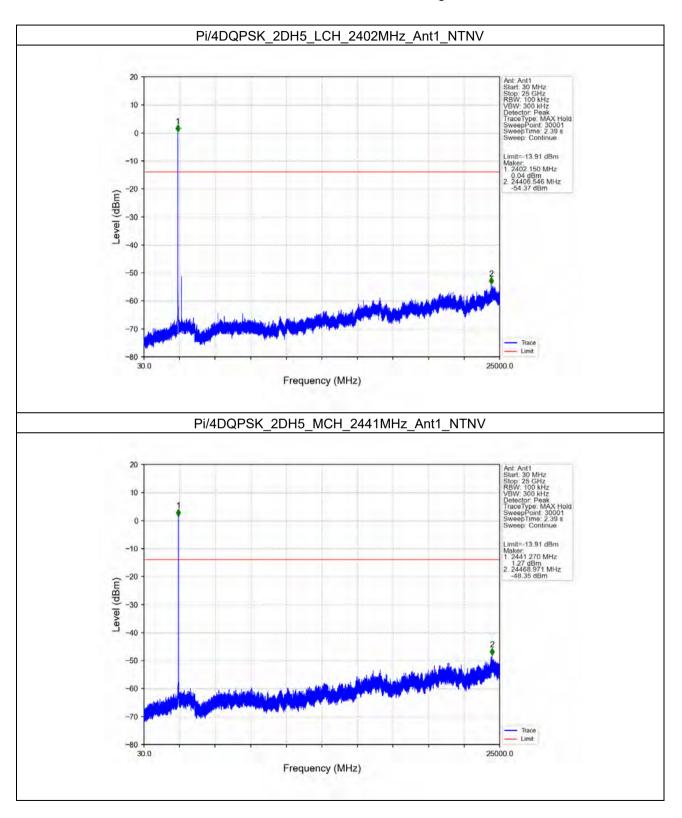
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 94 of 100





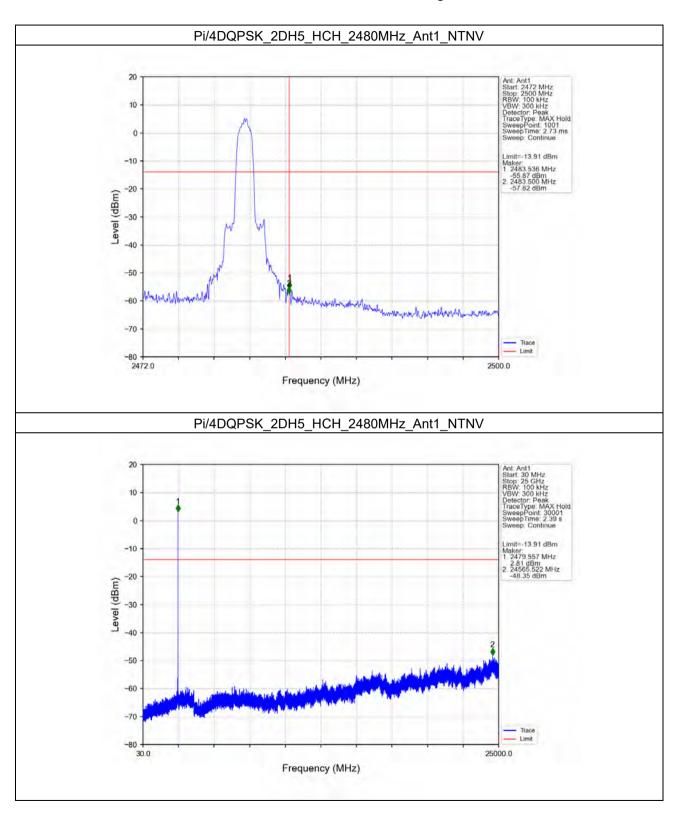
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 95 of 100





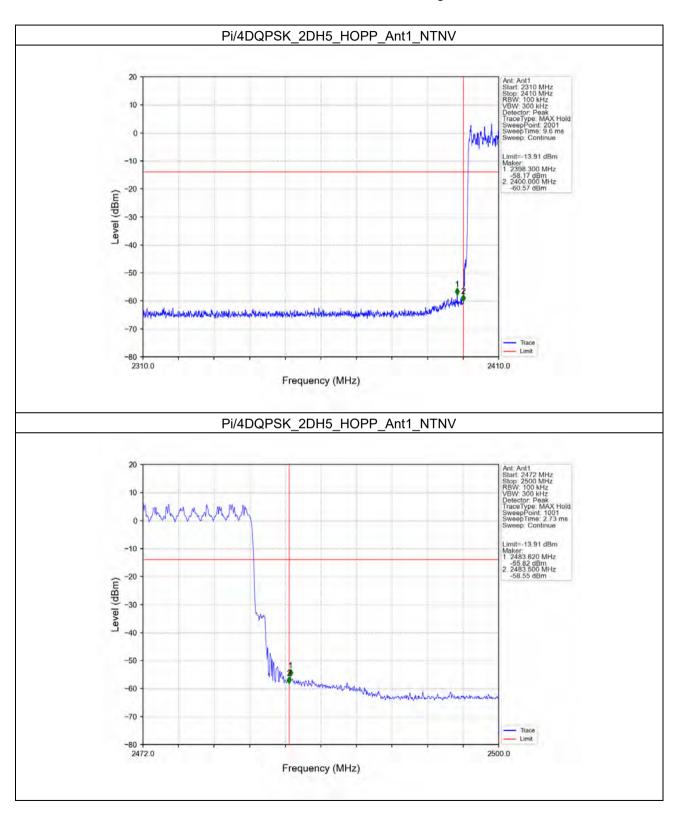
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 96 of 100





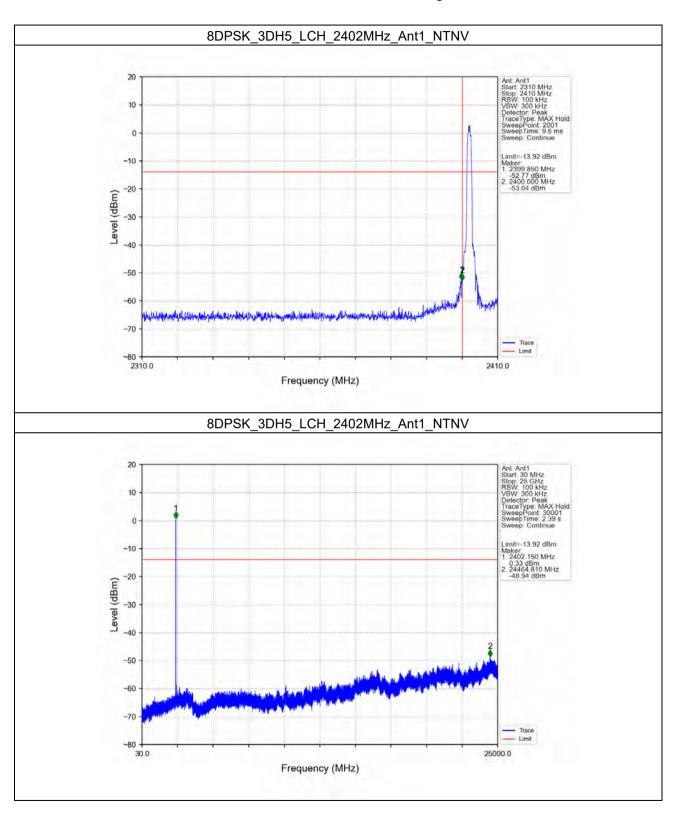
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 97 of 100





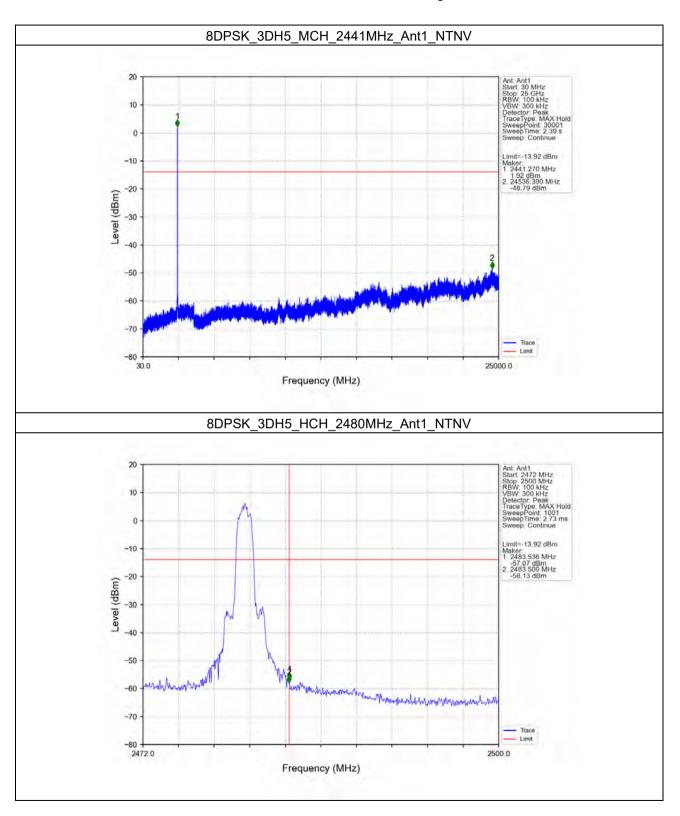
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 98 of 100





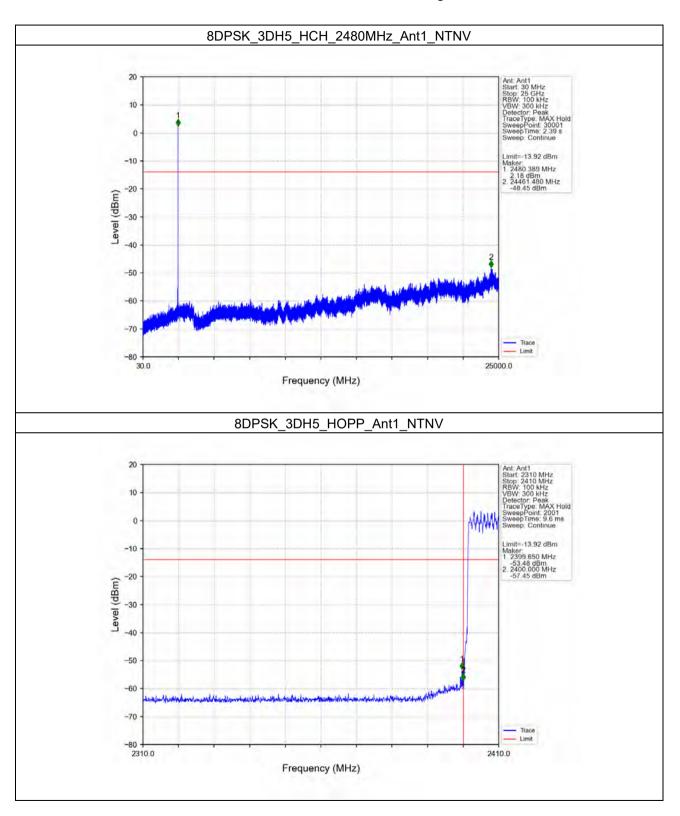
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460002 Page: 99 of 100





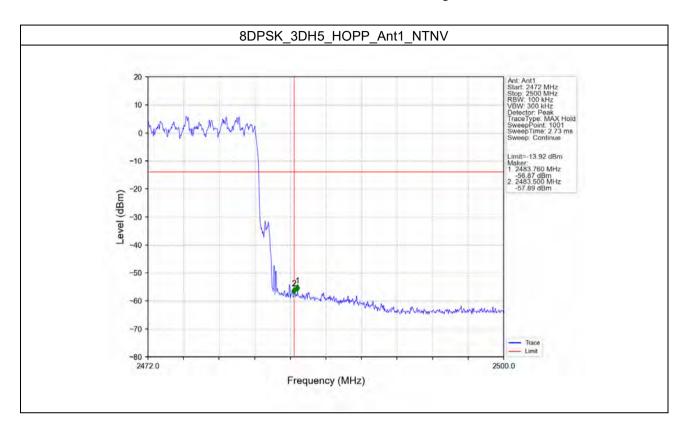
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Report No.: SZCR241200460002 Page: 100 of 100



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