

Report No.: SZCR210302001102

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TEST REPORT

Application No.: SZCR2103020011AT

Applicant: Jwipc Technology Co., Ltd.

Address of Applicant: 13/F, Building B, Haisong Edifice, Tairan 9th Road, Futian District,

Shenzhen, China

Manufacturer: Jwipc Technology Co., Ltd.

Address of Manufacturer: 13/F, Building B, Haisong Edifice, Tairan 9th Road, Futian District,

Shenzhen, China

Factory: Dongguan Scd Technology Co., Ltd.

Address of Factory: No.1 The 2nd Street, Huihuang Industrial Zone, Xiekeng Village, Qingxi

Town, Dongguan, 523000 Guangdong, China

Equipment Under Test (EUT):

EUT Name: Android Box
Model No.: D039, DEY21

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

actually tested and which were electrically identical.

Trade Mark: NONE

FCC ID: 2AYLND039

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

Date of Receipt: 2021-03-24

Date of Test: 2021-04-15 to 2021-05-08

Date of Issue: 2021-05-10

Test Result: Pass*

Keny Xu EMC Laboratory Manager

Leny. Ku

有限分類 A Testing Services 是 A Testing Services 是 Co. Ltd. nzhen Branch Services 是 Caboratory.

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



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	Revision Record							
Version Chapter Date Modifier Ren								
01		2021-05-10		Original				

Authorized for issue by:		
	1-farry Ulu	
	Harry Wu/Project Engineer	_
	Exic Fu	
	Eric Fu/Reviewer	-



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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		

Radio Spectrum Matter Part					
Item	Standard	Method	Requirement	Result	
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, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.4	47 CFR Part 15, Subpart C 15.247a(1)(iii)	Pass	
Conducted Band Edges Measurement	Gubpart G 10.247	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		ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass	

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



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Declaration of EUT Family Grouping:

Model No.: D039, DEY21

Only the model D039 was tested. According to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference on model.



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General Information

4.1 Details of F.U.T.

4.1	Details of E.U.T.				
	Power supply:	Input: DC 12.0V, 3A from AC/DC Adapter Model1:KPL-040F-VI			
		Manufacturer: Channel Well Technology			
		Input:AC100-240V, 50/60Hz, 1.7A			
		Output:DC12.0V, 3.33A			
		Model2:WA-36A12R			
		Manufacturer: Asian Power Devices Inc.			
		Input:AC100-240V, 50/60Hz, 0.9A			
		Output:DC12.0V, 3.0A			
		Remote Control: DC 3.0V (2 x "AAA" Batteries)			
	Test Voltage:	AC 120V, 60Hz			
	Operation Frequency:	2402MHz to 2480MHz			
	Bluetooth Version:	V4.1			
	Modulation Type:	GFSK, pi/4DQPSK, 8DPSK			
	Number of Channels:	79			
	Channel Spacing:	1MHz			
	Spectrum Spread Technology:	Frequency Hopping Spread Spectrum(FHSS)			
	Antenna Type:	Dipole Antenna			
	Antenna Gain:	Antenna 1: 4.32dBi			
	Remark:	Two AC/DC adapters were tested. The test data of two AC/DC adapters for Conducted Emissions at AC Power Line (150kHz-30MHz) and Radiated Spurious Emissions below 1GHz were recorded in the report. For other tests, only the worst case(Adapter: KPL-040F-VI) were recorded in the report.			

4.2 Description of Support Units

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



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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	± 4.5dB

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cispr} (CISPR 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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4.4 Test Location

All tests were performed at:

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

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

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

No tests were sub-contracted.

4.5 Test Facility

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

· A2LA (Certificate No. 3816.01)

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

VCCI

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

FCC –Designation Number: CN1178

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

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

Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None





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Equipment List

Conducted Peak Output Power						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12	
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22	
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2021-03-24	2022-03-23	
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2021-04-08	2022-04-07	

20dB Bandwidth							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12		
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22		
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2021-03-24	2022-03-23		
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09		
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2021-04-08	2022-04-07		

Carrier Frequencies Separation					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2021-03-24	2022-03-23
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2021-04-08	2022-04-07



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Hopping Channel Number					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2021-03-24	2022-03-23
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2021-04-08	2022-04-07

Dwell Time					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2021-03-24	2022-03-23
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2021-04-08	2022-04-07

Conducted Band Edges Measurement					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2021-03-24	2022-03-23
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2021-04-08	2022-04-07



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Conducted Spurious Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2021-03-24	2022-03-23
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2021-04-08	2022-04-07

Radiated Emissions which fall in the restricted bands						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2021-03-26	2024-03-25	
EXA Signal Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2021-02-01	2022-01-31	
Horn Antenna	Rohde&Schwarz	HF906	SHEM009-2	2020-07-27	2022-07-26	
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2020-09-23	2021-09-22	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09	
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2021-03-24	2022-03-23	

Radiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2021-03-27	2024-03-26
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2020-11-02	2021-11-01
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2019-08-08	2022-08-07
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2021-04-08	2022-04-07
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2020-08-14	2023-08-13
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2020-07-10	2021-07-09



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Radiated Spurious Emissions Above 1GHz					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2021-03-26	2024-03-25
EXA Signal Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2021-02-01	2022-01-31
Horn Antenna	Rohde&Schwarz	HF906	SHEM009-2	2020-07-27	2022-07-26
Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2020-11-14	2023-11-13
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2020-09-23	2021-09-22
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2020-09-15	2021-09-14
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2020-09-15	2021-09-14
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2021-03-30	2022-03-29



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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

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 antennas dipole Antennas. The best case gain of the antenna is 4.32dBi. Antenna location: Refer to External photos.





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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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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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Radio Spectrum Matter Test Results 7

7.1 Conducted Peak Output Power

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

Limit:

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

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 18.4 °C Humidity: 48.1 % RH Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

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



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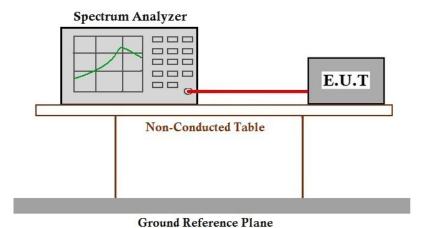
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7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

Please Refer to Appendix for Details





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7.2 20dB Bandwidth

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

7.2.1 E.U.T. Operation

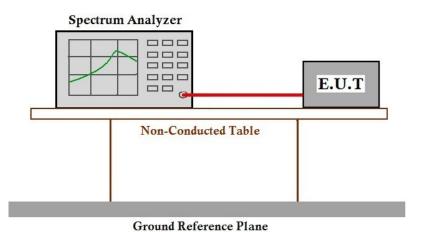
Operating Environment:

Temperature: 18.4 °C Humidity: 48.1 % RH Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

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

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.3 Carrier Frequencies Separation

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

Limit:

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.

7.3.1 E.U.T. Operation

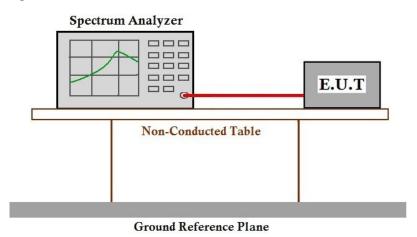
Operating Environment:

Temperature: 18.4 °C Humidity: 48.1 % RH Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX_Hop mode_Keep the EUT in frequency hopping mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.4 Hopping Channel Number

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

Limit:

Frequency range(MHz)	Number of hopping channels (minimum)				
000 000	50 for 20dB bandwidth <250kHz				
902-928	25 for 20dB bandwidth ≥250kHz				
2400-2483.5	15				
5725-5850	75				

7.4.1 E.U.T. Operation

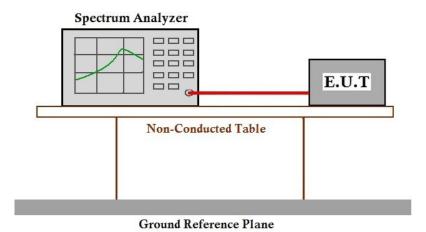
Operating Environment:

Temperature: 18.4 °C Humidity: 48.1 % RH Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX_Hop mode_Keep the EUT in frequency hopping mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.5 Dwell Time

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

Limit:

Frequency(MHz)	Limit
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

7.5.1 E.U.T. Operation

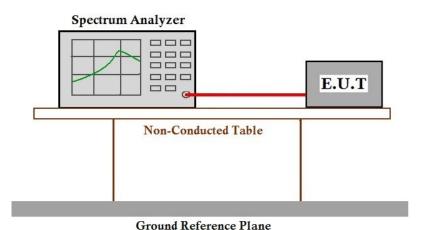
Operating Environment:

Temperature: 18.4 °C Humidity: 48.1 % RH Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX_Hop mode_Keep the EUT in frequency hopping mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

7.5.3 Test Setup Diagram





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7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.6 Conducted Band Edges Measurement

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

Limit:

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

7.6.1 E.U.T. Operation

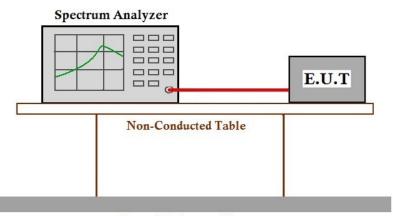
Operating Environment:

Humidity: 48.1 % RH Temperature: 18.4 °C Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

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

7.6.3 Test Setup Diagram



Ground Reference Plane



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7.6.4 Measurement Procedure and Data

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7.7 Conducted Spurious Emissions

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

Limit:

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

7.7.1 E.U.T. Operation

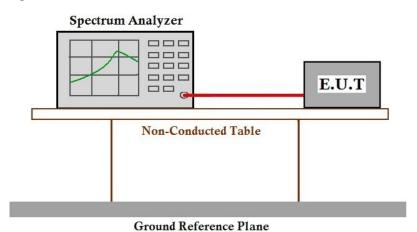
Operating Environment:

Temperature: 18.4 °C Humidity: 48.1 % RH Atmospheric Pressure: 1010 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 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





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7.7.4 Measurement Procedure and Data

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7.8 Radiated Emissions which fall in the restricted bands

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

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.

7.8.1 E.U.T. Operation

Operating Environment:

22.3 °C Temperature: Humidity: 52.3 % RH Atmospheric Pressure: 1010 mbar

7.8.2 Test Mode Description

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



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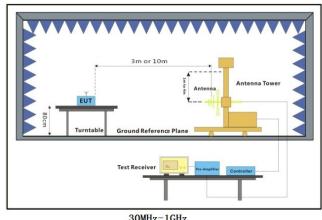
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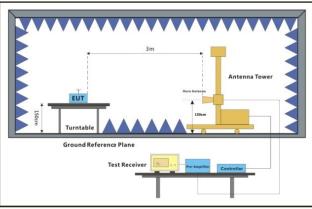


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7.8.3 Test Setup Diagram





Above 1GHz

7.8.4 Measurement Procedure and Data

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

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



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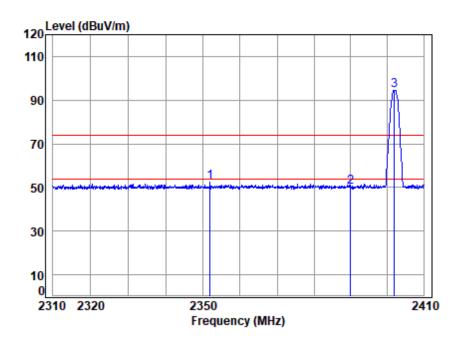
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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 20011AT/20012AT Mode : 2402 Band edge

Note : BT

> 1 2 3

		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		_
	2351.883	4.28	28.45	40.40	60.07	52.40	74.00	-21.60	peak	
	2390.000	4.34	28.52	40.42	57.81	50.25	74.00	-23.75	peak	
*	4 2402.000	4.36	28.54	40.43	102.17	94.64	74.00	20.64	peak	



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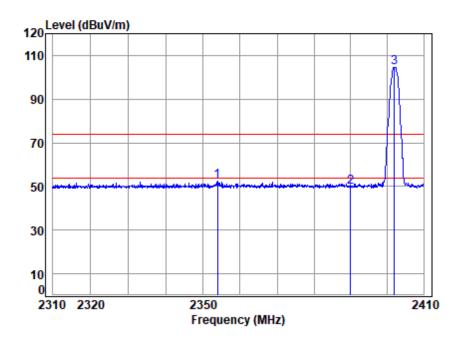
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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 20011AT/20012AT Mode : 2402 Band edge

Note : BT

> 1 2 3

		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		
	2353.877	4.29	28.46	40.40	59.95	52.30	74.00	-21.70	peak	
	2390.000	4.34	28.52	40.42	57.10	49.54	74.00	-24.46	peak	
*	2402.000	4.36	28.54	40.43	112.15	104.62	74.00	30.62	peak	



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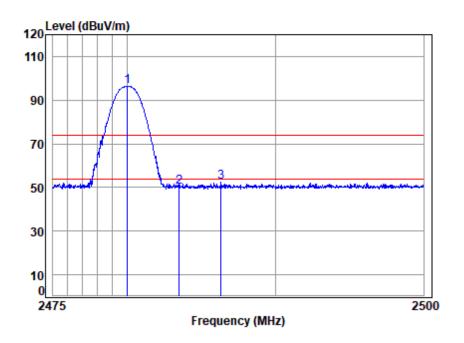
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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 20011AT/20012AT Mode : 2480 Band edge

Note : BT

> 1 2 3

		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		_
3	* 2480.000	4.49	28.67	40.47	103.45	96.14	74.00	22.14	peak	
	2483.500	4.49	28.67	40.47	57.61	50.30	74.00	-23.70	peak	
}	2486.319	4.50	28.68	40.47	59.89	52.60	74.00	-21.40	peak	



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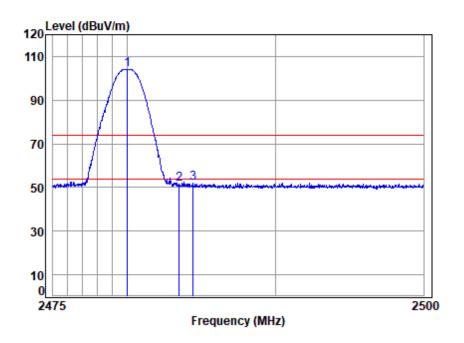
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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 20011AT/20012AT Mode : 2480 Band edge

Note : BT

> 1 2 3

Freq						Limit Line		Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2480.000								•
2483.500 2484.420								•



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7.9 Radiated Spurious Emissions

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

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
Above 1000	500	3

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C Humidity: 52.3 % RH Atmospheric Pressure: 1010 mbar

7.9.2 Test Mode Description

7.3.2 Test mode bescription					
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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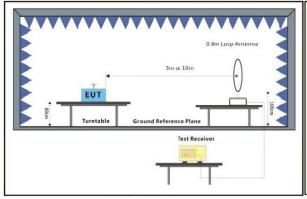
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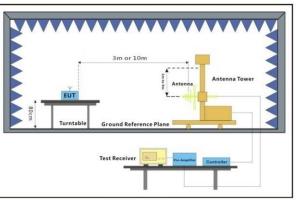


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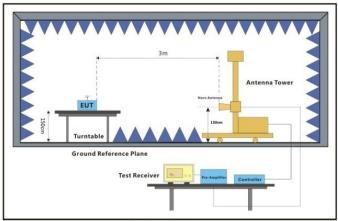
7.9.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz



Above 1GHz



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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 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.
- 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.

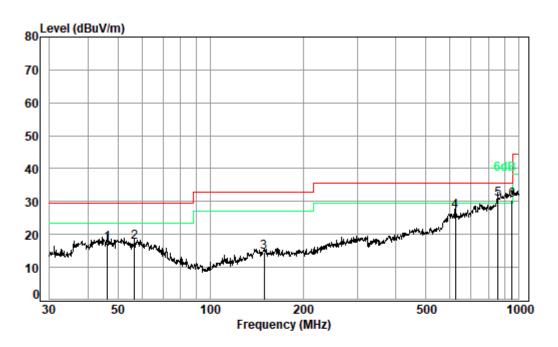




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Model1:KPL-040F-VI;Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Condition: 10m HORIZONTAL

Job No. : 20011AT

Test Mode: 00

: BT

	Freq		Preamp Factor						Remark
-	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	46.340	20.45	32.50	0.95	28.45	17.35	29.50	-12.15	QP
2	56.593	19.56	32.49	1.02	29.45	17.54	29.50	-11.96	QP
3	149.486	20.18	32.42	1.48	25.46	14.70	33.00	-18.30	QP
4	625.078	26.25	32.30	3.12	30.12	27.19	35.60	-8.41	QP
5 pp	857.025	28.77	31.81	3.38	30.25	30.59	35.60	-5.01	QP
6	952.094	29.86	31.12	3.56	28.25	30.55	35.60	-5.05	QP



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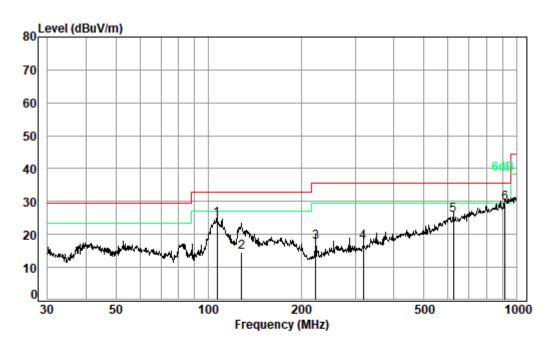
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Model1:KPL-040F-VI;Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low



Condition: 10m VERTICAL

Job No. : 20011AT

Test Mode: 00

: BT

	Freq		Preamp Factor						Remark
_	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	106.759	16.02	32.45	1.29	39.78	24.64	33.00	-8.36	QP
2	128.113	18.08	32.43	1.38	27.63	14.66	33.00	-18.34	QP
3	222.950	16.21	32.40	1.79	32.15	17.75	35.60	-17.85	QP
4	318.817	20.24	32.38	2.18	27.54	17.58	35.60	-18.02	QP
5	625.078	26.25	32.30	3.12	28.78	25.85	35.60	-9.75	QP
6 pp	919.287	29.78	31.42	3.49	27.54	29.39	35.60	-6.21	OP



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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:

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
106.76	24.64	17.06	56.87	35.10	43.50	-8.40	V
128.11	14.66	5.41	18.03	25.12	43.50	-18.38	V
222.95	17.75	7.72	25.73	28.21	46.00	-17.79	V
318.82	17.58	7.57	25.23	28.04	46.00	-17.96	V
625.08	25.85	19.61	65.37	36.31	46.00	-9.69	V
919.29	29.39	29.48	98.26	39.85	46.00	-6.15	V
46.34	17.35	7.37	24.57	27.81	40.00	-12.19	Н
56.59	17.54	7.53	25.11	28.00	40.00	-12.00	Н
149.49	14.70	5.43	18.11	25.16	43.50	-18.34	Н
625.08	27.19	22.88	76.27	37.65	46.00	-8.35	Н
857.03	30.59	33.85	112.82	41.05	46.00	-4.95	Н
952.09	30.55	33.69	112.30	41.01	46.00	-4.99	Н



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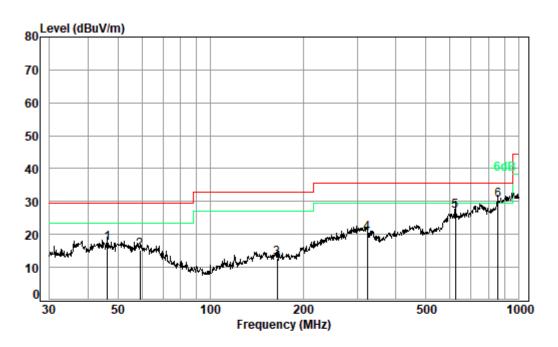
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Model2:WA-36A12R;Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Condition: 10m HORIZONTAL

Job No. : 20011AT

Test Mode: 00

: BT WA-36A12R

	Freq		Preamp Factor						Remark
_	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	46.340	20.45	32.50	0.95	28.40	17.30	29.50	-12.20	QP
2	59.025	19.39	32.49	1.04	27.40	15.34	29.50	-14.16	QP
3	164.908	19.55	32.41	1.53	24.09	12.76	33.00	-20.24	QP
4	323.320	20.37	32.37	2.21	30.09	20.30	35.60	-15.30	QP
5	625.078	26.25	32.30	3.12	30.10	27.17	35.60	-8.43	QP
6 pp	857.025	28.77	31.81	3.38	30.10	30.44	35.60	-5.16	QP



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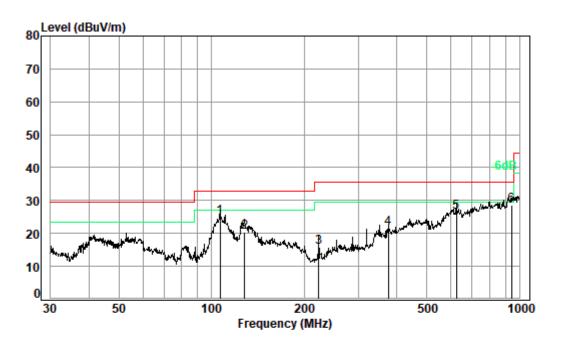
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Model2:WA-36A12R;Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low



Condition: 10m VERTICAL

Job No. : 20011AT

Test Mode: 00

: BT WA-36A12R

	Freq		Preamp Factor						Remark
-	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	106.759	16.02	32.45	1.29	40.10	24.96	33.00	-8.04	QP
2	128.113	18.08	32.43	1.38	33.39	20.42	33.00	-12.58	QP
3	222.950	16.21	32.40	1.79	30.10	15.70	35.60	-19.90	QP
4	374.623	21.34	32.32	2.35	30.10	21.47	35.60	-14.13	QP
5	625.078	26.25	32.30	3.12	29.40	26.47	35.60	-9.13	QP
6 pp	942.131	29.81	31.21	3.53	26.41	28.54	35.60	-7.06	QP



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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:

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
46.34	17.30	7.33	24.43	27.76	40.00	-12.24	Н
59.03	15.34	5.85	19.49	25.80	40.00	-14.20	Н
164.91	12.76	4.35	14.48	23.22	43.50	-20.28	Н
323.32	20.37	10.44	34.78	30.83	46.00	-15.17	Н
625.08	27.17	22.83	76.10	37.63	46.00	-8.37	Н
857.03	30.44	33.27	110.89	40.90	46.00	-5.10	Н
106.76	24.96	17.70	59.00	35.42	43.50	-8.08	V
128.11	20.42	10.50	34.98	30.88	43.50	-12.62	V
222.95	15.70	6.10	20.32	26.16	46.00	-19.84	V
374.62	21.47	11.84	39.48	31.93	46.00	-14.07	V
625.08	26.47	21.06	70.21	36.93	46.00	-9.07	V
942.13	28.54	26.73	89.10	39.00	46.00	-7.00	V



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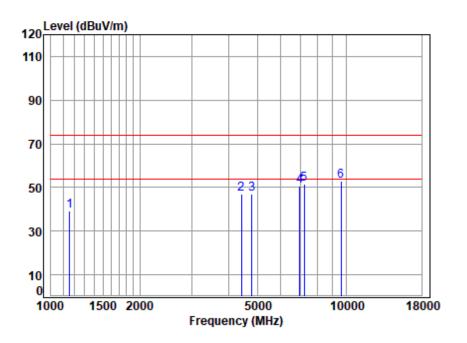
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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 20011AT/20012AT

Mode : 2402 TX SE

Note : BT

	Freq			Preamp Factor		Level			Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1155.483	2.68	24.38	39.73	52.13	39.46	74.00	-34.54	peak
2	4417.841	6.68	33.46	41.80	48.43	46.77	74.00	-27.23	peak
3	4804.000	7.10	33.97	42.14	47.94	46.87	74.00	-27.13	peak
4	6954.852	8.52	35.87	41.73	47.93	50.59	74.00	-23.41	peak
5	7206.000	8.74	36.07	41.50	48.26	51.57	74.00	-22.43	peak
6	9608.000	10.81	37.67	37.76	42.06	52.78	74.00	-21.22	peak



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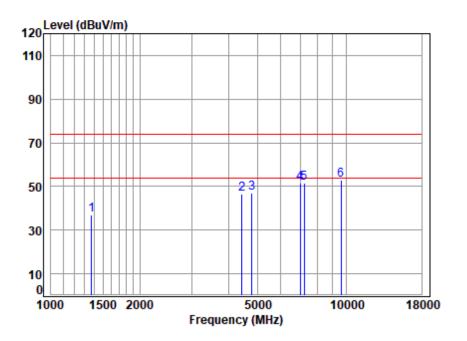
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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 20011AT/20012AT

Mode : 2402 TX SE

Note : BT

	Freq			Preamp Factor		Level			Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1374.295	3.07	25.33	39.88	48.66	37.18	74.00	-36.82	peak
2	4443.453	6.71	33.50	41.82	48.34	46.73	74.00	-27.27	peak
3	4804.000	7.10	33.97	42.14	48.10	47.03	74.00	-26.97	peak
4	6995.172	8.54	35.90	41.70	48.97	51.71	74.00	-22.29	peak
5	7206.000	8.74	36.07	41.50	48.03	51.34	74.00	-22.66	peak
6	9608.000	10.81	37.67	37.76	42.22	52.94	74.00	-21.06	peak



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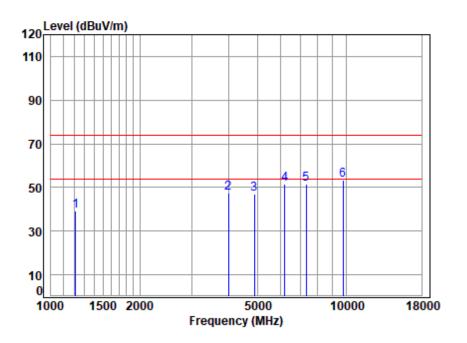
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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 20011AT/20012AT

Mode : 2441 TX SE

Note : BT

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1213.677	2.79	24.65	39.77	51.64	39.31	74.00	-34.69	peak
2	3992.781	6.27	32.69	41.40	50.02	47.58	74.00	-26.42	peak
3	4882.000	7.18	34.06	42.20	48.15	47.19	74.00	-26.81	peak
4	6195.508	8.27	35.30	42.25	50.20	51.52	74.00	-22.48	peak
5	7323.000	8.85	36.16	41.40	47.75	51.36	74.00	-22.64	peak
6	9764.000	10.76	37.76	37.50	42.44	53.46	74.00	-20.54	peak



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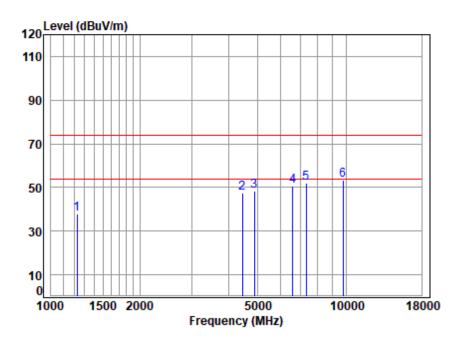
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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 20011AT/20012AT

Mode : 2441 TX SE

Note : BT

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1227.791	2.82	24.71	39.78	50.31	38.06	74.00	-35.94	peak
2	4456.315	6.72	33.53	41.84	48.93	47.34	74.00	-26.66	peak
3	4882.000	7.18	34.06	42.20	49.50	48.54	74.00	-25.46	peak
4	6583.209	8.32	35.65	41.98	48.82	50.81	74.00	-23.19	peak
5	7323.000	8.85	36.16	41.40	48.19	51.80	74.00	-22.20	peak
6	976/ 000	10 76	37 76	37 50	/12 37	53 39	7/ 00	-20 61	neak



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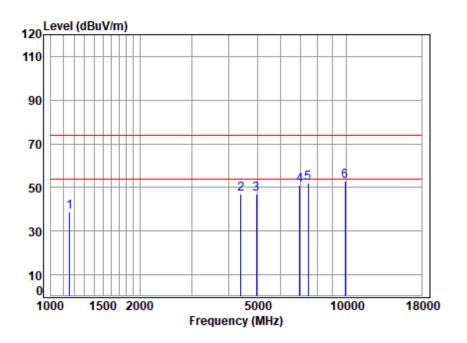
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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 20011AT/20012AT

Mode : 2480 TX SE

Note : BT

		Cable	Δnt	Preamp	Read		limit	0ver	
	F								D I-
	Freq	LOSS	Factor	Factor	rever	rever	Line	Limit	Kemark
_									
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
			•			•	•		
1	1150 000	2 60	24 40	20 72	E4 /E	20 01	74 00	2E 10	noole
1	1158.828								•
2	4405.090	6.67	33.44	41.79	48.57	46.89	74.00	-27.11	peak
3	4960.000	7.26	34.15	42.27	47.85	46.99	74.00	-27.01	peak
4	6954.852	8.52	35.87	41.73	48.63	51.29	74.00	-22.71	peak
5	7440.000	8.96	36.25	41.29	48.00	51.92	74.00	-22.08	peak
6	9920.000	10.71	37.85	37.23	41.63	52.96	74.00	-21.04	peak



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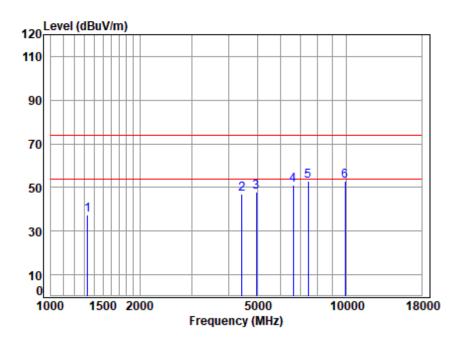
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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 20011AT/20012AT

Mode : 2480 TX SE

Note : BT

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1331.288	3.00	25.15	39.85	49.10	37.40	74.00	-36.60	peak
2	4430.628	6.70	33.48	41.81	48.74	47.11	74.00	-26.89	peak
3	4960.000	7.26	34.15	42.27	48.80	47.94	74.00	-26.06	peak
4	6621.375	8.34	35.67	41.95	49.11	51.17	74.00	-22.83	peak
5	7440.000	8.96	36.25	41.29	48.84	52.76	74.00	-21.24	peak
6	9920 000	10 71	37 85	37 23	/11 71	53 04	7/ 00	-20 96	neak



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8 Emission Test Results

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

Test Requirement: 47 CFR Part 15, Subpart C 15.247, 15.207

Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Everyoney of emission/MU=\	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 th	e frequency.	
Detector: Peak for pre-scan (9kHz ı	resolution bandwidth) 0.15M to 30	MHz

8.1.1 E.U.T. Operation

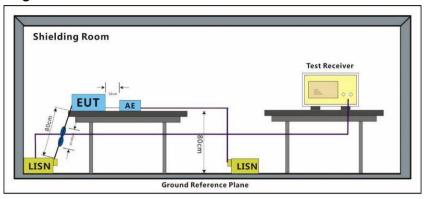
Operating Environment:

Temperature: 20.3 °C Humidity: 46.5 % RH Atmospheric Pressure: 1010 mbar

8.1.2 Test Mode Description

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

8.1.3 Test Setup Diagram





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8.1.4 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 + 50hm 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: LISN=Read Level+ Cable Loss+ LISN Factor

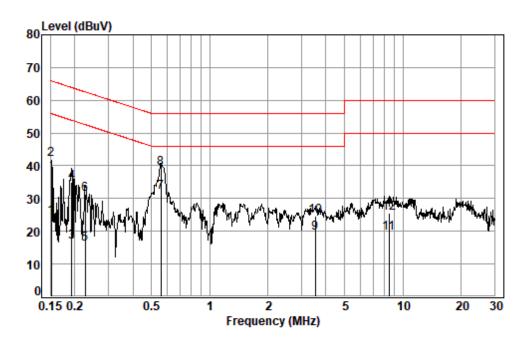




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Model1:KPL-040F-VI; Test Mode: 00; Line: Live line; Modulation:GFSK; Channel:Low



: Shielding Room

Condition: Line Job No. : 20011AT

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	0.03	9.62	14.70	24.35	55.91	-31.56	Average
2	0.1516	0.03	9.62	32.31	41.96	65.91	-23.95	QP
3	0.1934	0.04	9.64	7.18	16.86	53.89	-37.03	Average
4	0.1934	0.04	9.64	25.23	34.91	63.89	-28.98	QP
5	0.2268	0.04	9.65	6.54	16.23	52.57	-36.34	Average
6	0.2268	0.04	9.65	21.50	31.19	62.57	-31.38	QP
7	0.5581	0.08	9.68	22.31	32.07	46.00	-13.93	Average
8	0.5581	0.08	9.68	29.39	39.15	56.00	-16.85	QP
9	3.5278	0.15	9.73	9.61	19.49	46.00	-26.51	Average
10	3.5278	0.15	9.73	14.80	24.68	56.00	-31.32	QP
11	8.5011	0.16	9.89	9.30	19.35	50.00	-30.65	Average
12	8.5011	0.16	9.89	15.42	25.47	60.00	-34.53	QP



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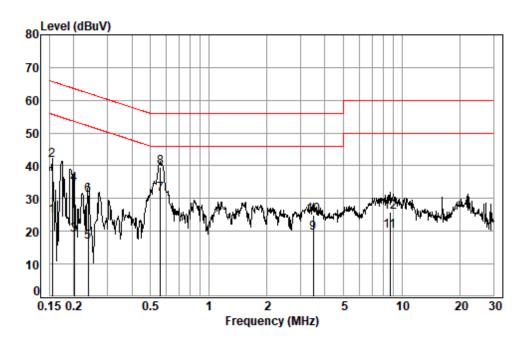
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Model1:KPL-040F-VI;Test Mode: 00; Line: Neutral Line; Modulation:GFSK; Channel:Low



: Shielding Room

Condition: Neutral Job No. : 20011AT

Test mode: 00

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	——dB	
1	0.1548	0.03	9.62	14.97	24.62	55.74	-31.12	Average
2	0.1548	0.03	9.62	32.05	41.70	65.74	-24.04	QP
3	0.2018	0.04	9.63	9.11	18.78	53.54	-34.76	Average
4	0.2018	0.04	9.63	24.85	34.52	63.54	-29.02	QP
5	0.2378	0.04	9.65	6.92	16.61	52.17	-35.56	Average
6	0.2378	0.04	9.65	21.39	31.08	62.17	-31.09	QP
7	0.5611	0.08	9.67	21.68	31.43	46.00	-14.57	Average
8	0.5611	0.08	9.67	29.77	39.52	56.00	-16.48	QP
9	3.4906	0.15	9.72	9.58	19.45	46.00	-26.55	Average
10	3.4906	0.15	9.72	15.03	24.90	56.00	-31.10	QP
11	8.6832	0.16	9.92	10.04	20.12	50.00	-29.88	Average
12	8.6832	0.16	9.92	15.68	25.76	60.00	-34.24	QP



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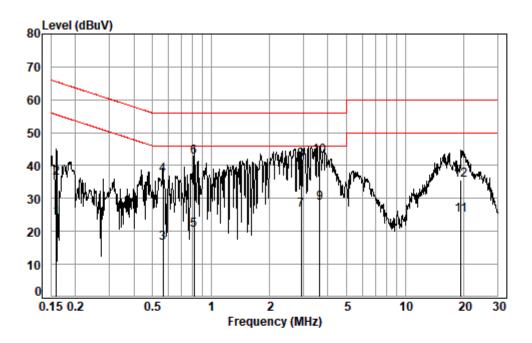
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Model2:WA-36A12R; Test Mode: 00; Line: Live line; Modulation:GFSK; Channel:Low



: Shielding Room

Condition: Line : 20011AT Job No.

Test mode: 00

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1598	0.03	9.63	14.31	23.97	55.47	-31.50	Average
2	0.1598	0.03	9.63	26.69	36.35	65.47	-29.12	QP
3	0.5671	0.08	9.68	6.75	16.51	46.00	-29.49	Average
4	0.5671	0.08	9.68	27.24	37.00	56.00	-19.00	QP
5	0.8174	0.09	9.68	10.67	20.44	46.00	-25.56	Average
6	0.8174	0.09	9.68	32.90	42.67	56.00	-13.33	QP
7	2.9152	0.14	9.71	16.63	26.48	46.00	-19.52	Average
8	2.9152	0.14	9.71	31.84	41.69	56.00	-14.31	QP
9	3.6225	0.15	9.73	18.57	28.45	46.00	-17.55	Average
10	3.6225	0.15	9.73	32.95	42.83	56.00	-13.17	QP
11	19.4284	0.17	9.92	14.94	25.03	50.00	-24.97	Average
12	19.4284	0.17	9.92	25.52	35.61	60.00	-24.39	QP



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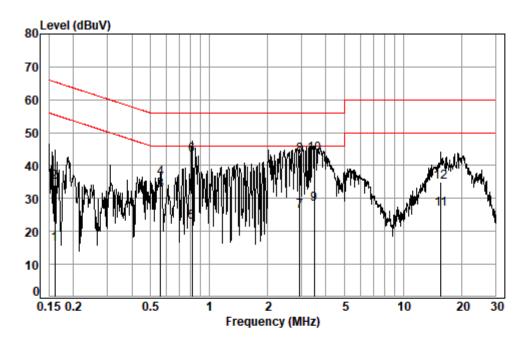
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Model2:WA-36A12R;Test Mode: 00; Line: Neutral Line; Modulation:GFSK; Channel:Low



: Shielding Room

Condition: Neutral Job No. : 20011AT

Test mode: 00

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1607	0.03	9.63	6.49	16.15	55.43	-39.28	Average
2	0.1607	0.03	9.63	25.25	34.91	65.43	-30.52	QP
3	0.5641	0.08	9.67	22.83	32.58	46.00	-13.42	Average
4	0.5641	0.08	9.67	26.53	36.28	56.00	-19.72	QP
5	0.8174	0.09	9.67	12.92	22.68	46.00	-23.32	Average
6	0.8174	0.09	9.67	33.30	43.06	56.00	-12.94	QP
7	2.9307	0.14	9.70	16.41	26.25	46.00	-19.75	Average
8	2.9307	0.14	9.70	33.41	43.25	56.00	-12.75	QP
9	3.4906	0.15	9.72	18.47	28.34	46.00	-17.66	Average
10	3.4906	0.15	9.72	33.59	43.46	56.00	-12.54	QP
11	15.6349	0.16	9.99	16.76	26.91	50.00	-23.09	Average
12	15.6349	0.16	9.99	24.90	35.05	60.00	-24.95	QP



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9 **Test Setup Photo**

Refer to Setup Photos

10 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2103020011AT



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11 Appendix

1. Bandwidth

1.1 Test Result

Test Mode	Frequency	TV Tupo	ANT No.	20dB Bandwidth	Verdict	
rest Mode	(MHz)	TX Type	ANT NO.	Test Result (MHz)		
	2402	SISO	1	1.008	PASS	
GFSK	2441	SISO	1	0.986	PASS	
	2480	SISO	1	1.020	PASS	
	2402	SISO	1	1.356	PASS	
Pi/4DQPSK	2441	SISO	1	1.358	PASS	
	2480	SISO	1	1.359	PASS	
	2402	SISO	1	1.317	PASS	
8DPSK	2441	SISO	1	1.317	PASS	
	2480	SISO	1	1.316	PASS	



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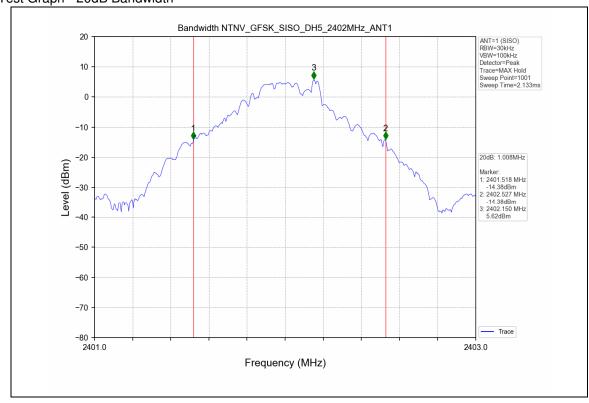
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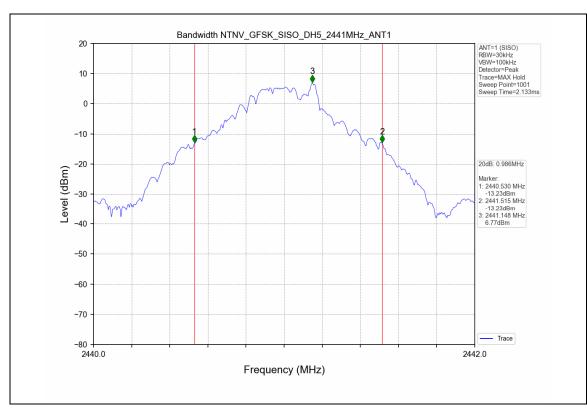


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1.2 Test Graph - 20dB Bandwidth







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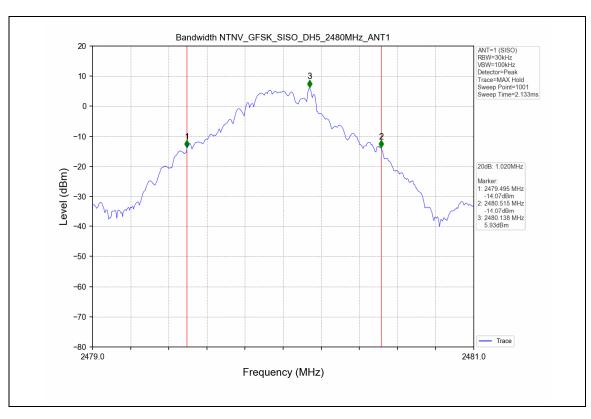
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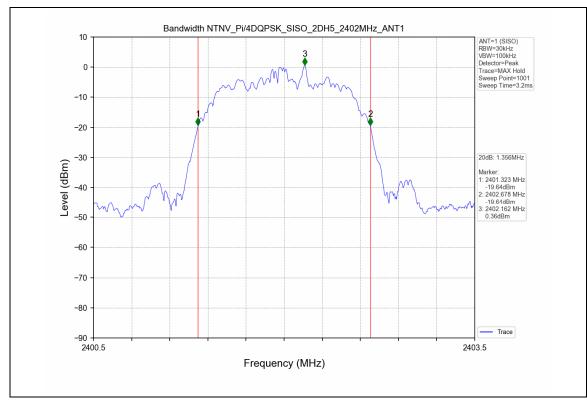
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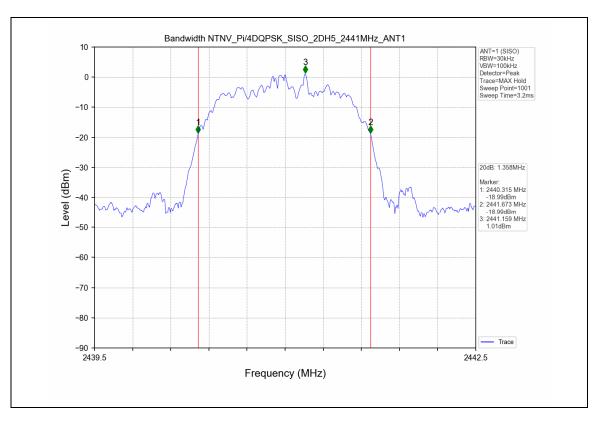
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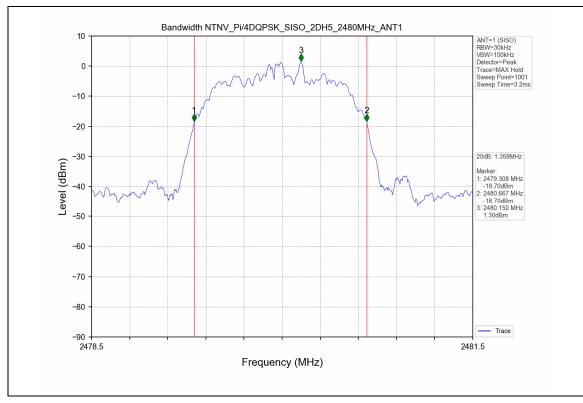
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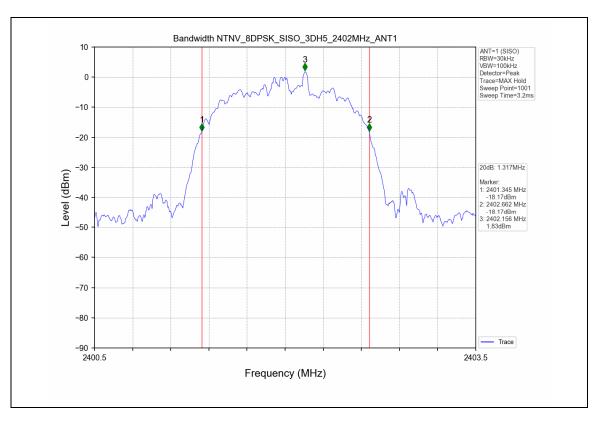
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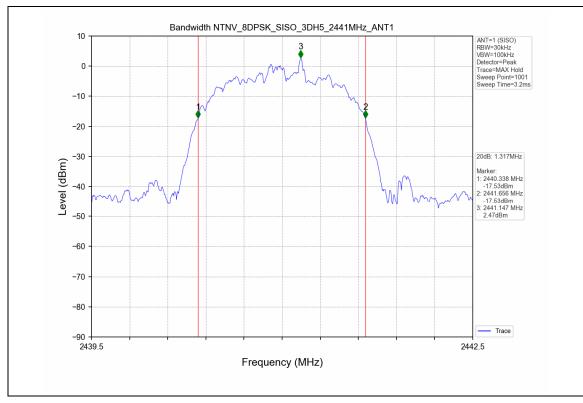
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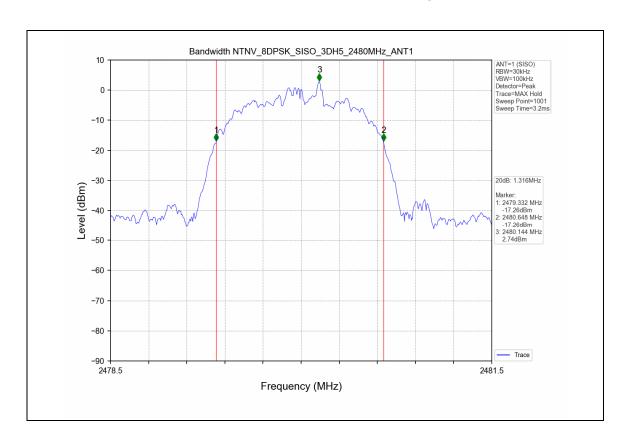
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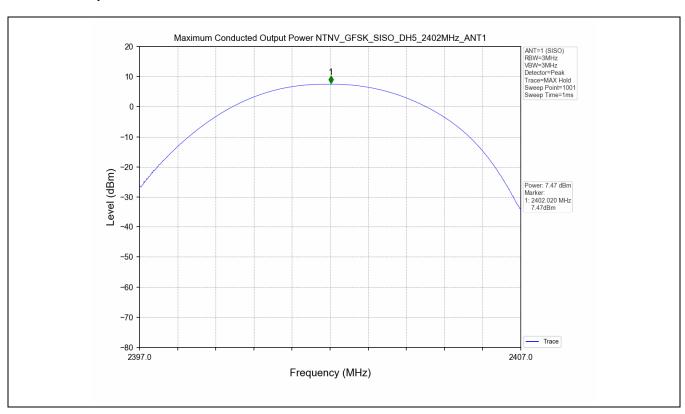
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2. Maximum Conducted Output Power

2.1 Test Result

Test Mode	Frequency (MHz)	Тх Туре	Measured Peak Output Power (dBm) Ant 1	Limits (dBm)	Verdict
	2402	SISO	7.47	20.97	PASS
GFSK	2441	SISO	8.10	20.97	PASS
	2480	SISO	7.66	20.97	PASS
	2402	SISO	5.41	20.97	PASS
Pi/4DQPSK	2441	SISO	6.10	20.97	PASS
	2480	SISO	6.27	20.97	PASS
	2402	SISO	5.82	20.97	PASS
8DPSK	2441	SISO	6.52	20.97	PASS
	2480	SISO	6.67	20.97	PASS

2.2 Test Graph





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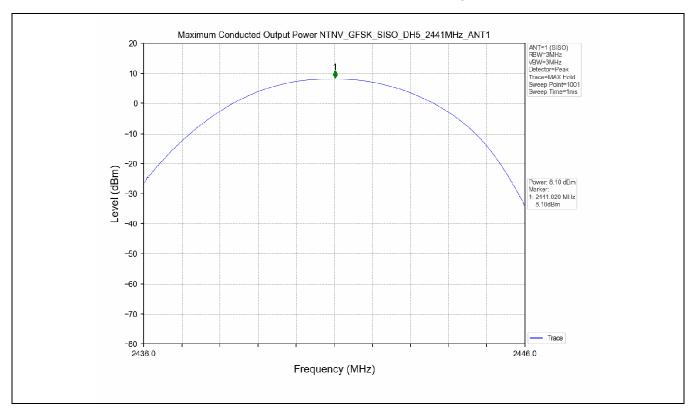
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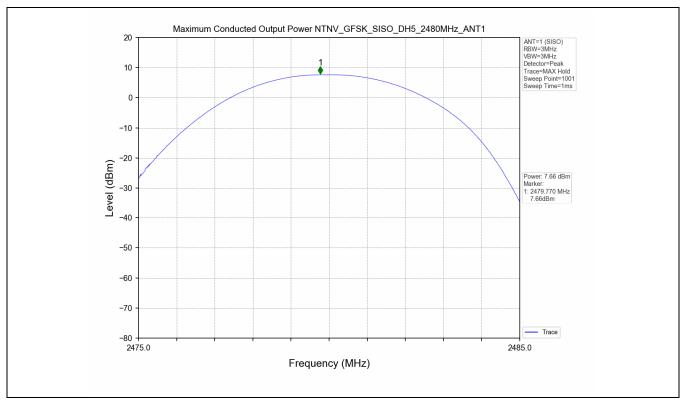
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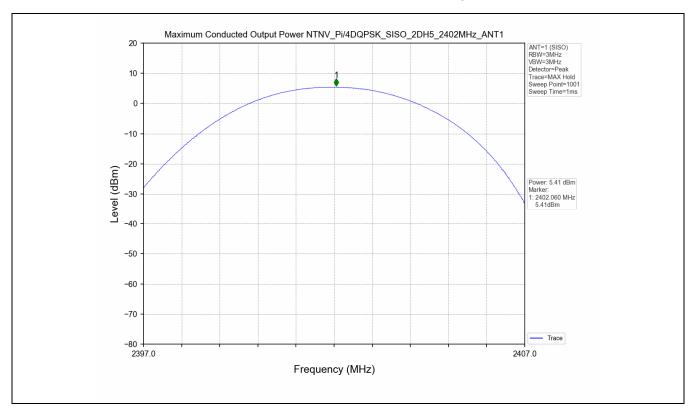
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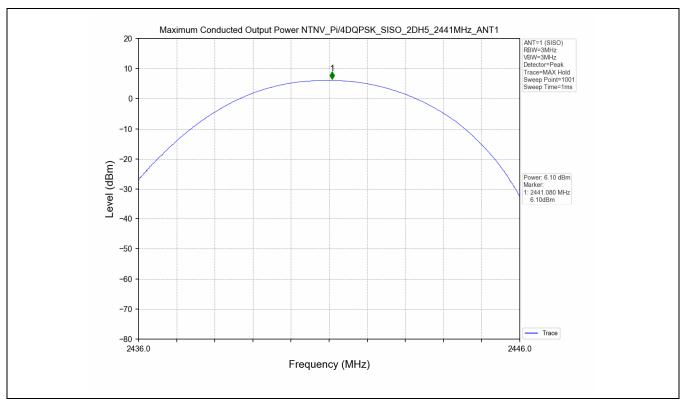
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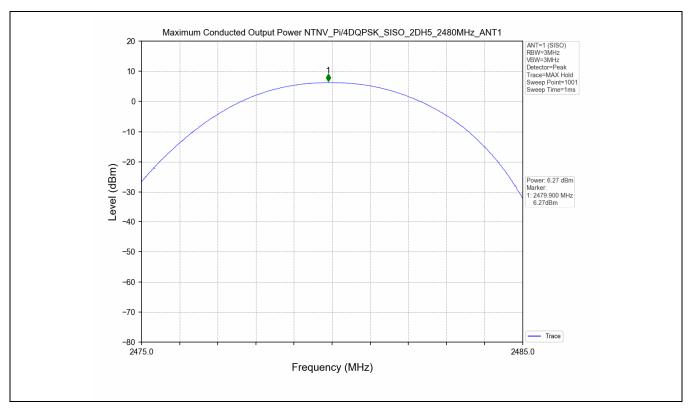
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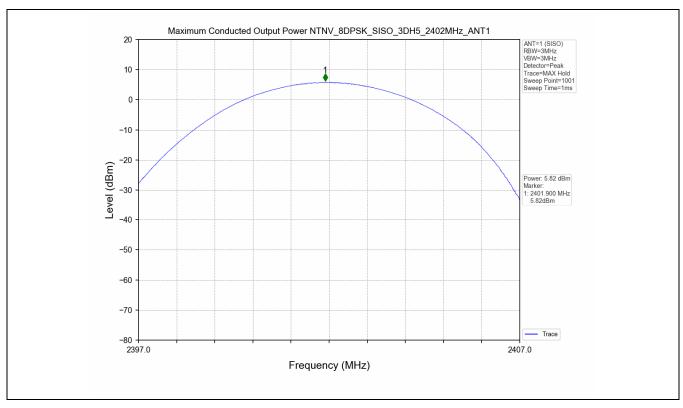
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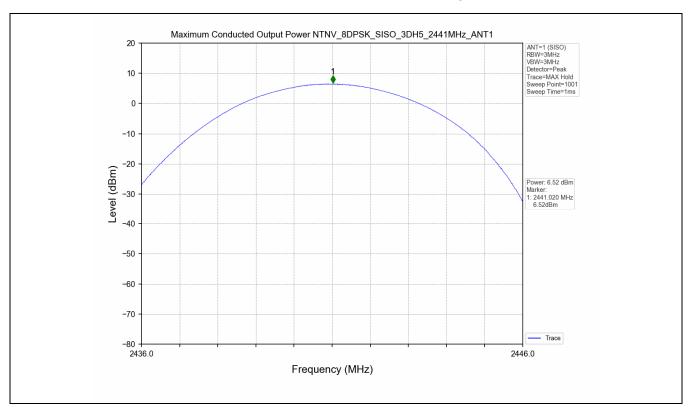
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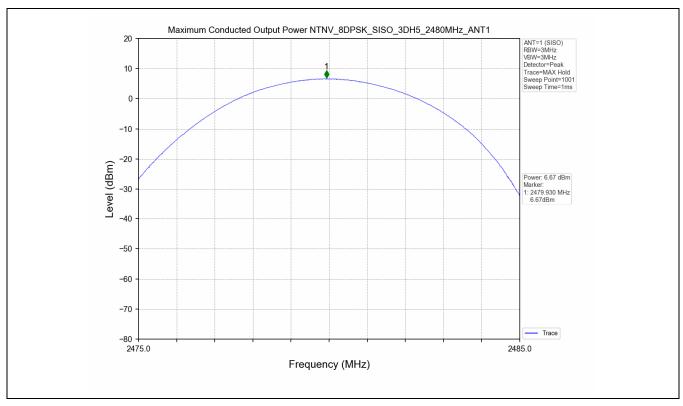
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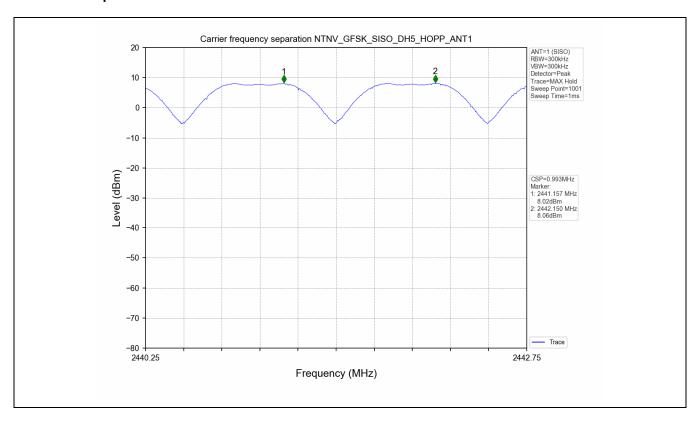
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3. Carrier frequency separation

3.1 Test Result

Test Mode	ТХ Туре	ANT No.	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limits (MHz)	Verdict
GFSK	SISO	1	0.993	1.020	≥0.680	PASS
Pi/4DQPSK	SISO	1	0.981	1.359	≥0.906	PASS
8DPSK	SISO	1	0.999	1.317	≥0.878	PASS

3.2 Test Graph





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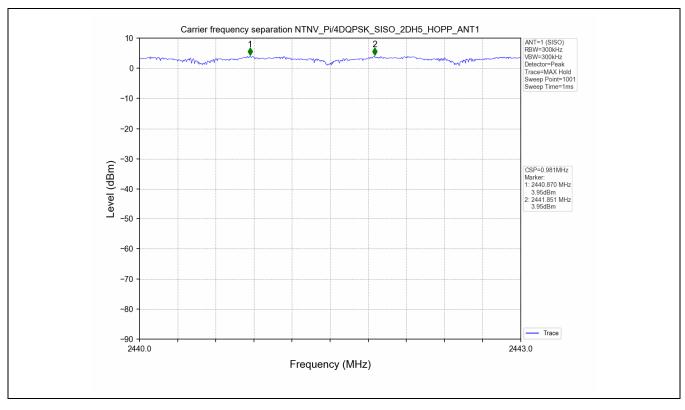
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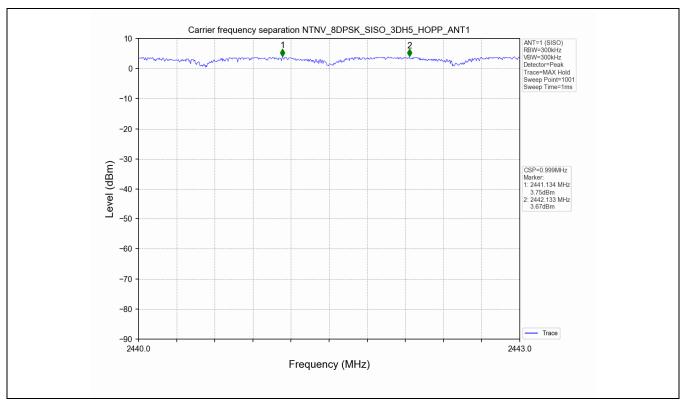
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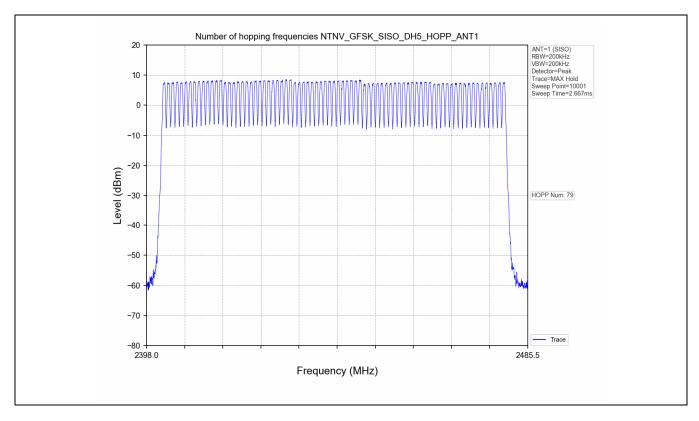
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4. Number of hopping frequencies

4.1 Test Result

Test Mode	TX Type	ANT No.	Num of Hopping Frequencies	Limits	Verdict
GFSK	SISO	1	79	≥15	PASS
Pi/4DQPSK	SISO	1	79	≥15	PASS
8DPSK	SISO	1	79	≥15	PASS

4.2 Test Graph





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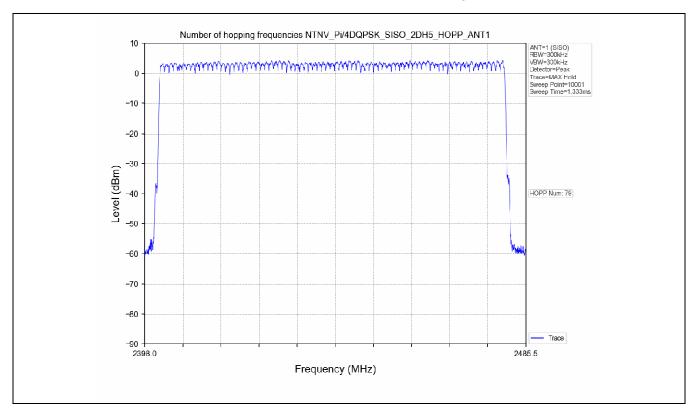
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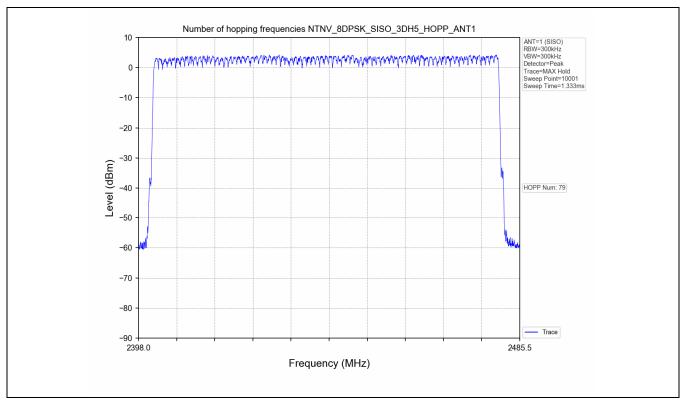
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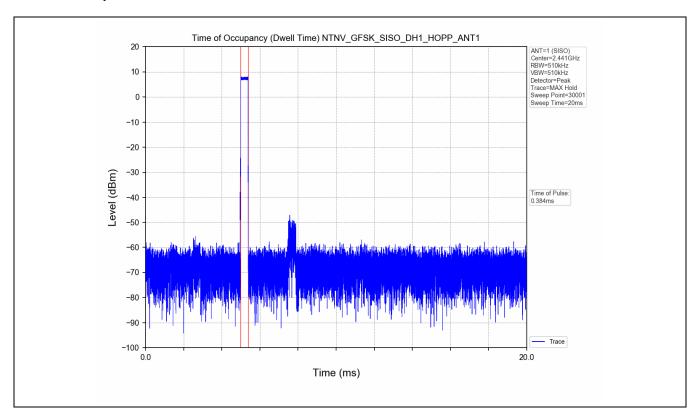
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5. Time of Occupancy (Dwell Time)

5.1 Test Result

Test Mode	Packet Type	TX Type	ANI	Duration of Single Pulse (ms)	ation	Num of Pulse in Observation Period	Dwell Time (ms)	Limits (ms)	Verdict
	DH1	SISO	1	0.384	31.6	320	122.880	≤400	PASS
GFSK	DH3	SISO	1	1.640	31.6	157	257.480	≤400	PASS
	DH5	SISO	1	2.888	31.6	111	320.568	≤400	PASS
D:/ 4 D O	2DH1	SISO	1	0.391	31.6	320	125.120	≤400	PASS
Pi/4DQ PSK	2DH3	SISO	1	1.642	31.6	167	274.214	≤400	PASS
TOR	2DH5	SISO	1	2.890	31.6	113	326.570	≤400	PASS
	3DH1	SISO	1	0.391	31.6	320	125.120	≤400	PASS
8DPSK	3DH3	SISO	1	1.641	31.6	162	265.842	≤400	PASS
	3DH5	SISO	1	2.860	31.6	104	297.440	≤400	PASS

5.2 Test Graph





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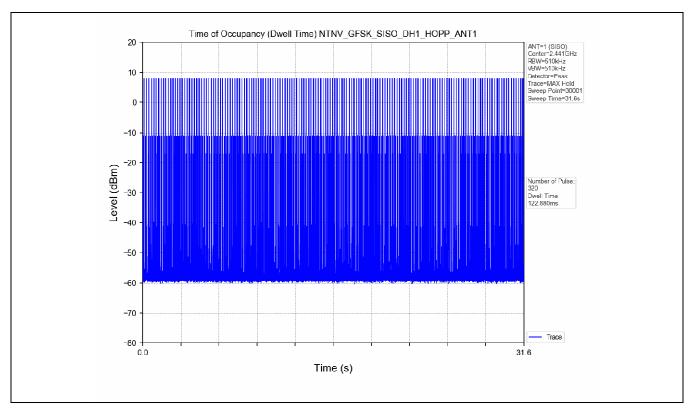
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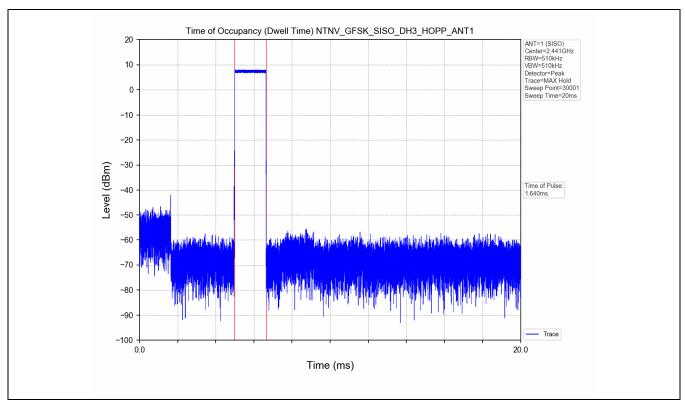
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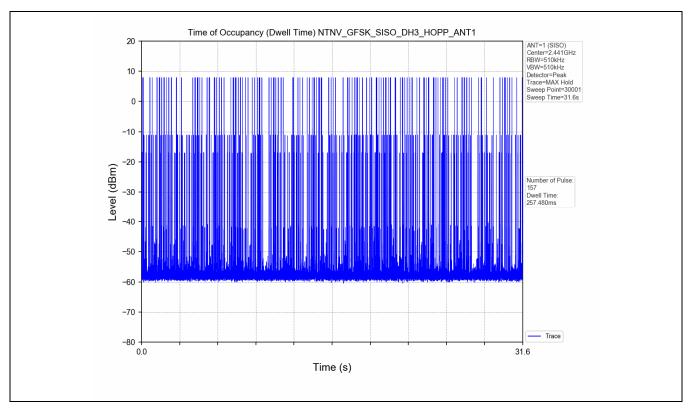
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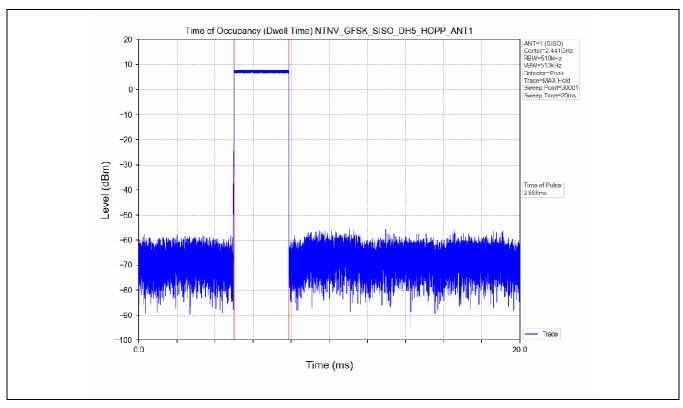
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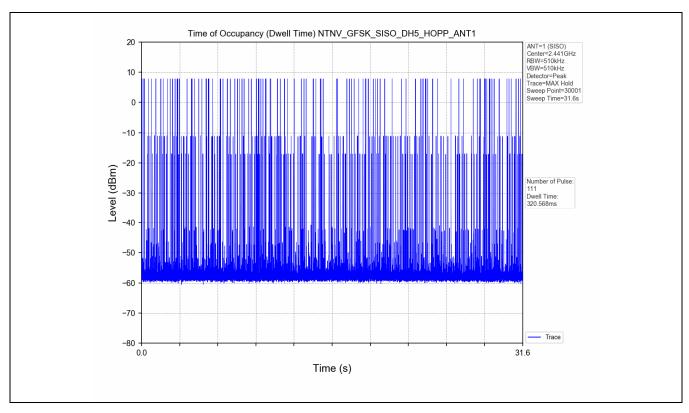
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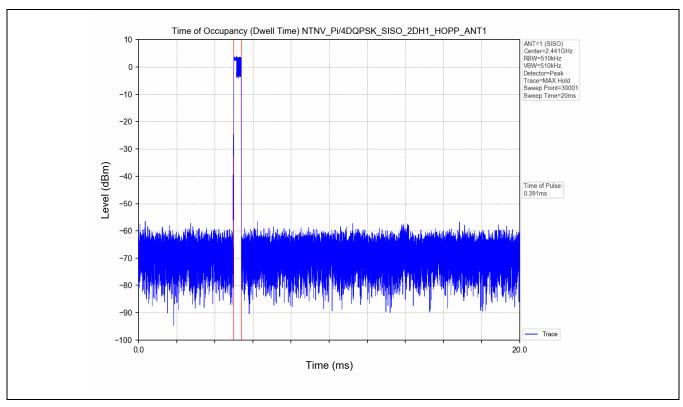
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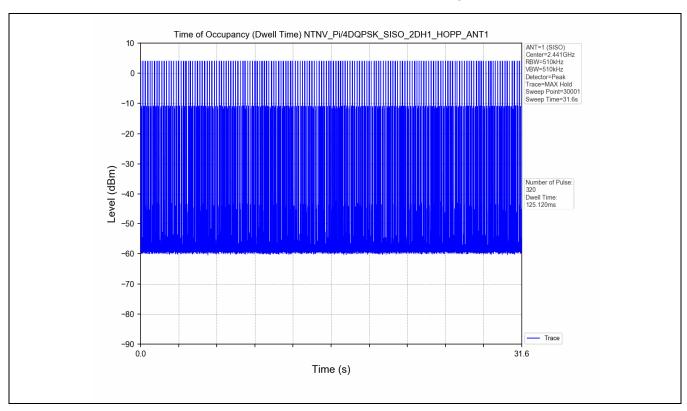
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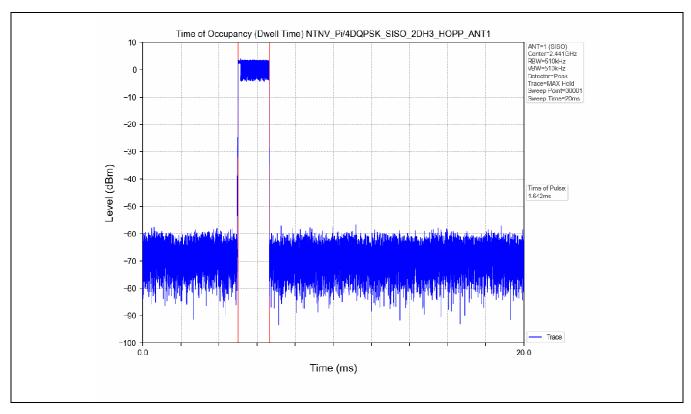
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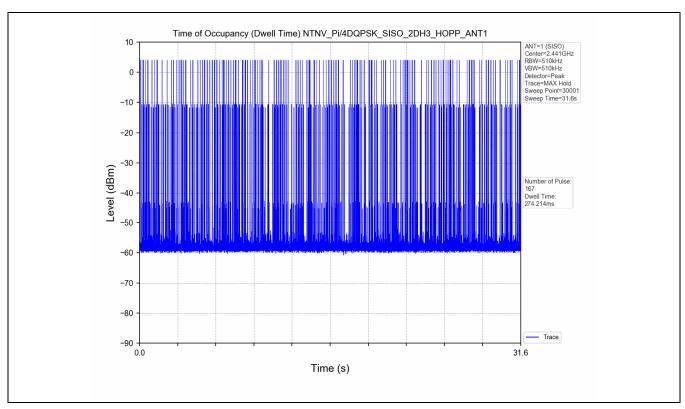
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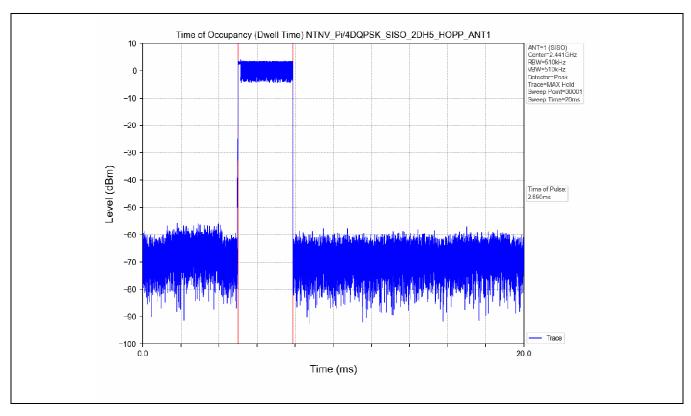
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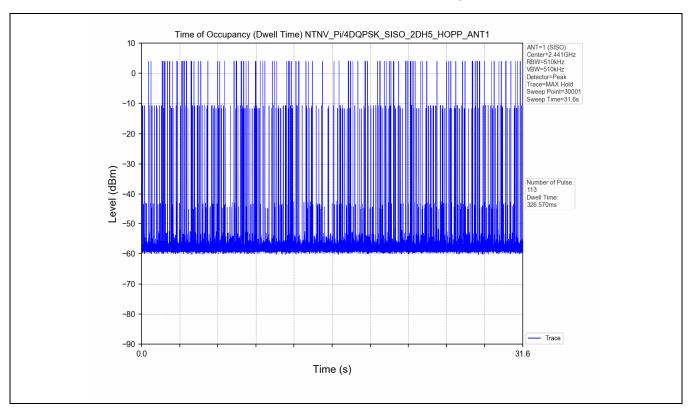
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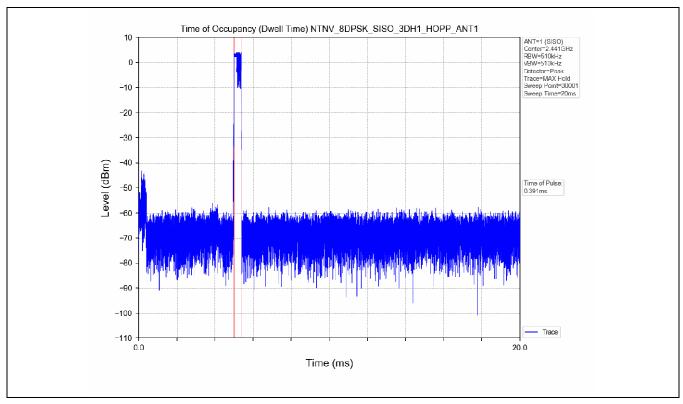
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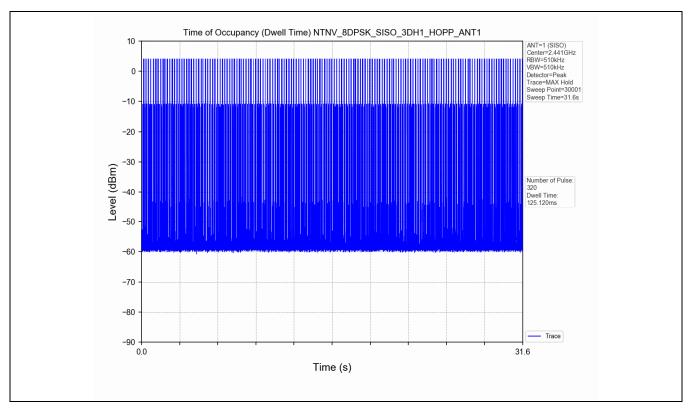
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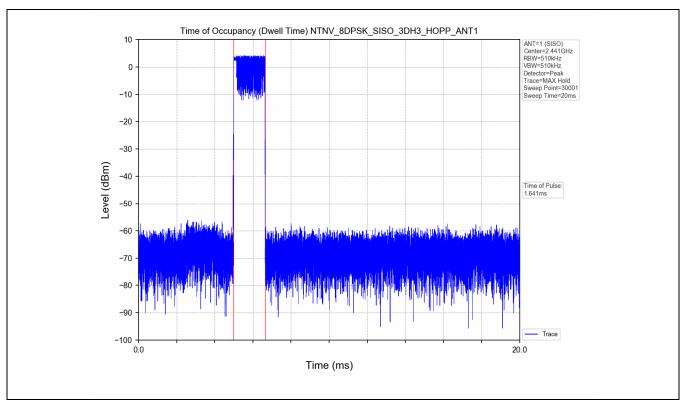
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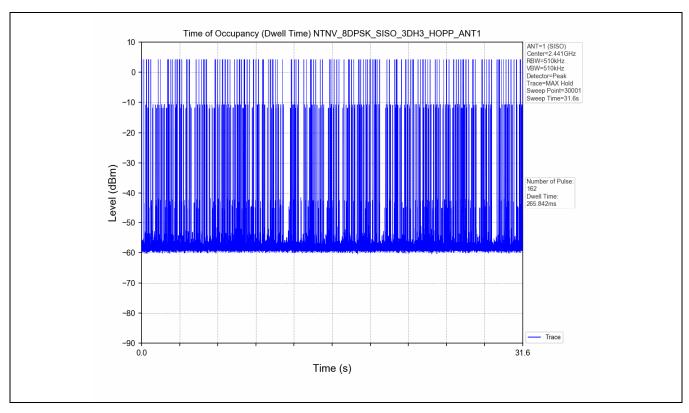
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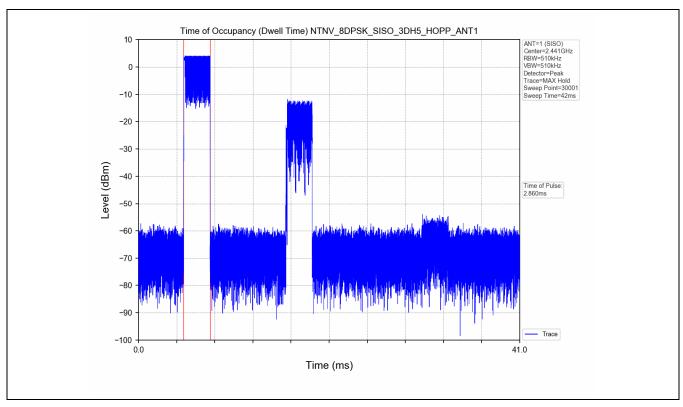
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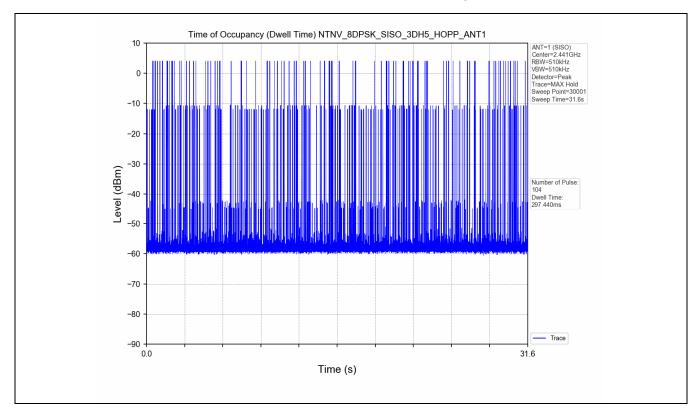
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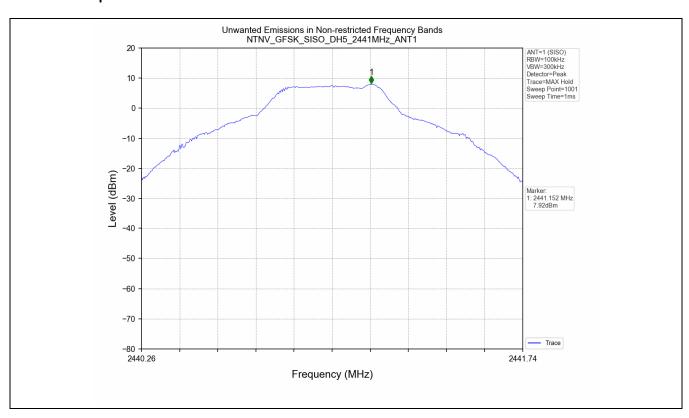
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6. Unwanted Emissions in Non-restricted Frequency Bands

6.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
GFSK	2402	SISO	1	Refer to test graph	-12.08	PASS
	2441	SISO	1	Refer to test graph	-12.08	PASS
	2480	SISO	1	Refer to test graph	-12.08	PASS
	Hopping	SISO	1	Refer to test graph	-12.08	PASS
Pi/4DQPSK	2402	SISO	1	Refer to test graph	-16.41	PASS
	2441	SISO	1	Refer to test graph	-16.41	PASS
	2480	SISO	1	Refer to test graph	-16.41	PASS
	Hopping	SISO	1	Refer to test graph	-16.41	PASS
8DPSK	2402	SISO	1	Refer to test graph	-16.18	PASS
	2441	SISO	1	Refer to test graph	-16.18	PASS
	2480	SISO	1	Refer to test graph	-16.18	PASS
	Hopping	SISO	1	Refer to test graph	-16.18	PASS

6.2 Test Graph





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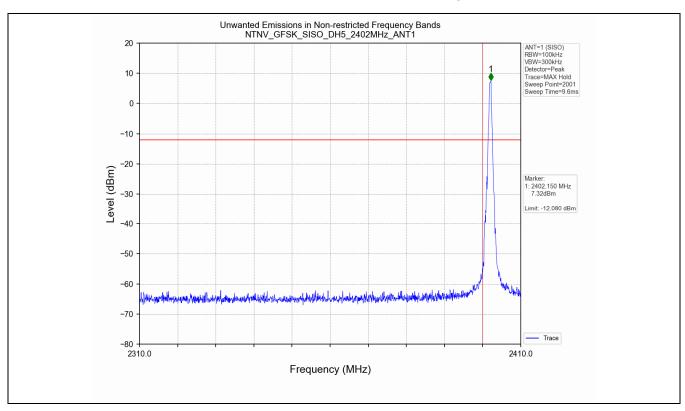
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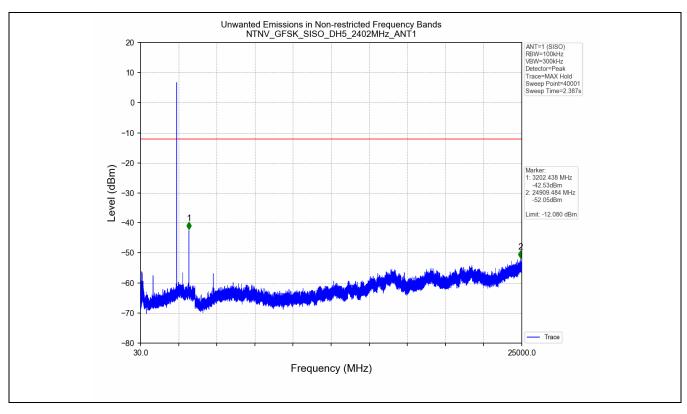
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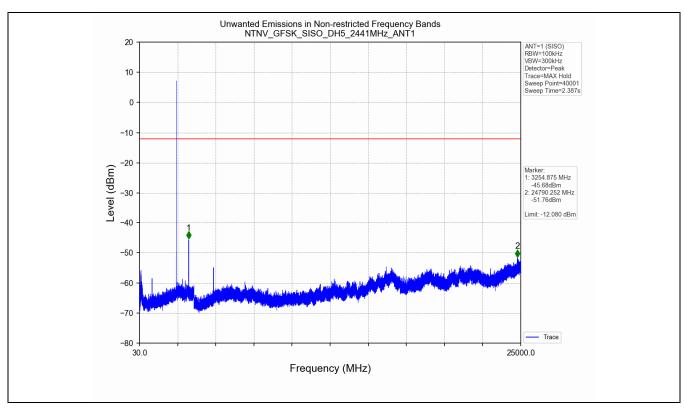
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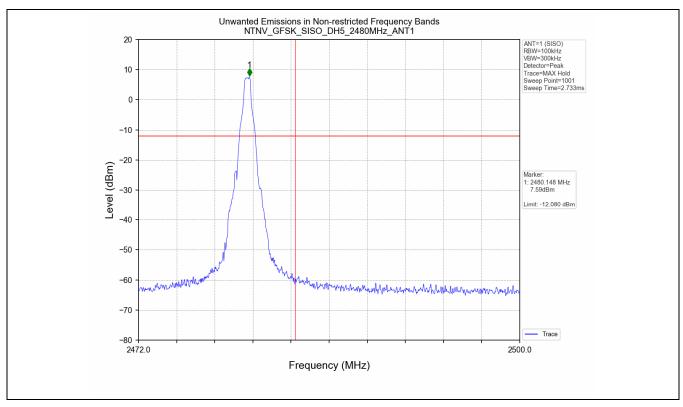
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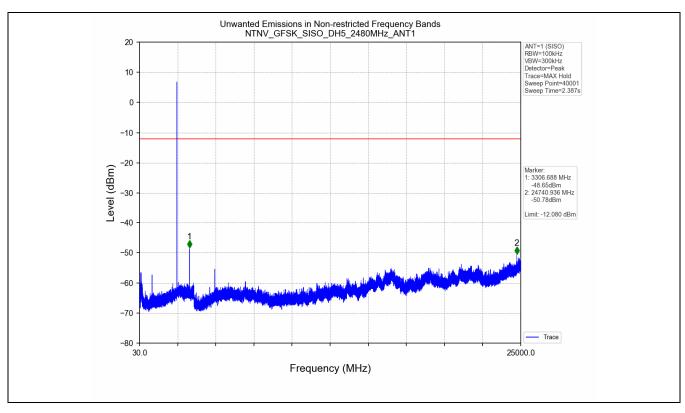
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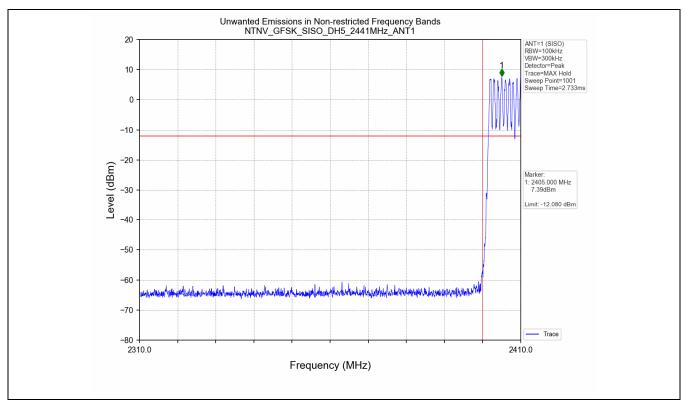
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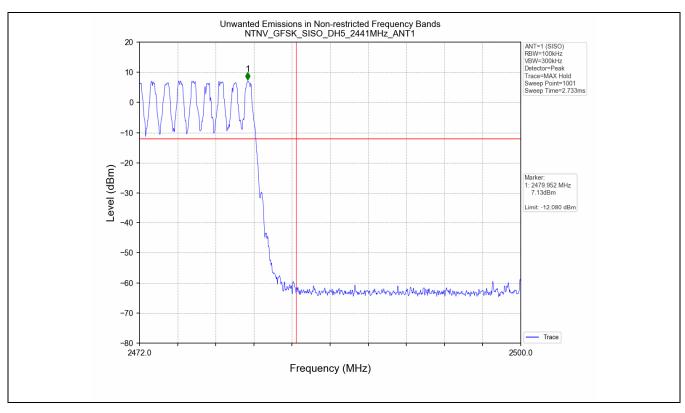
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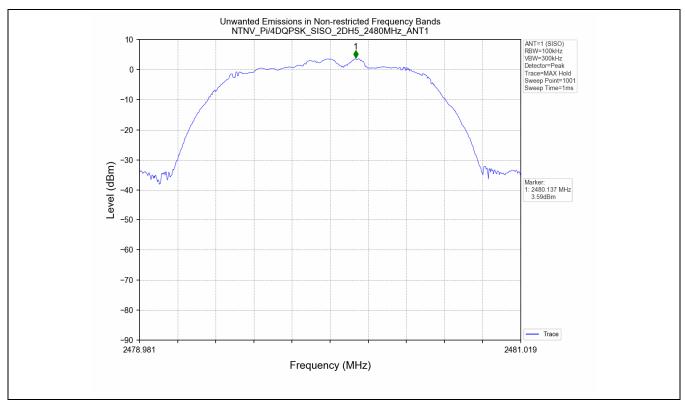
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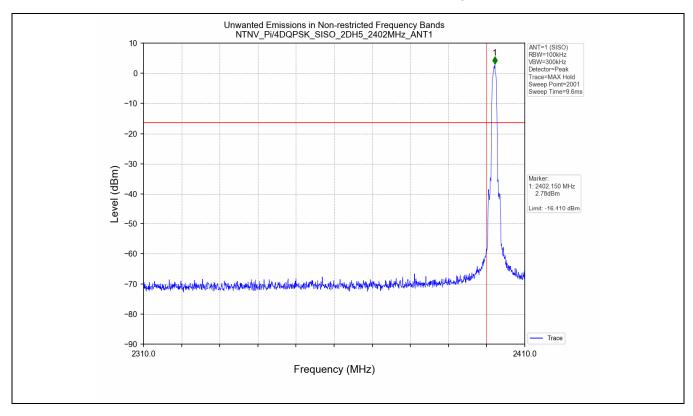
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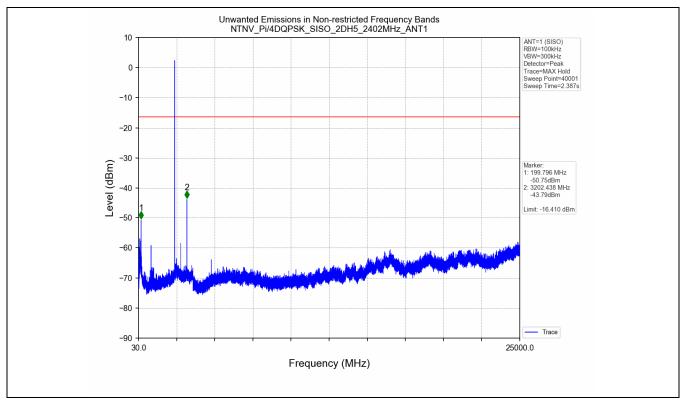
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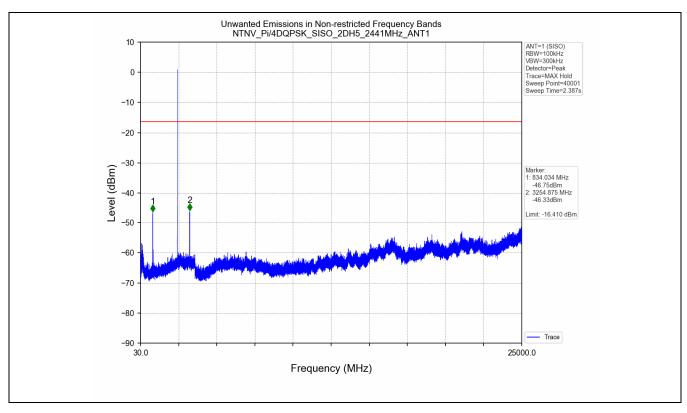
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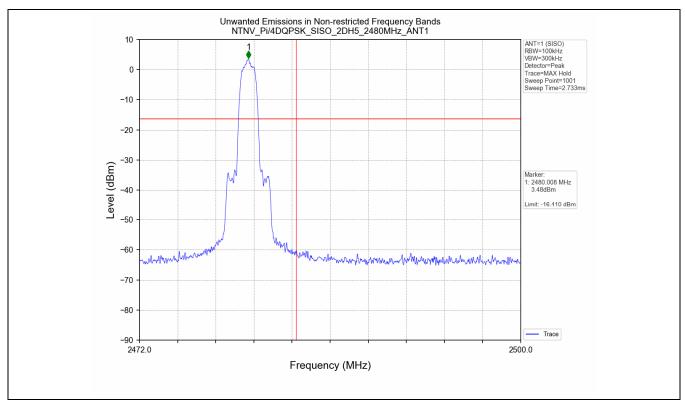
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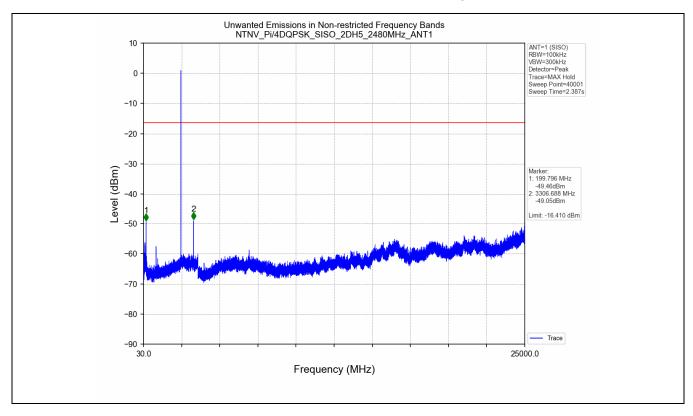
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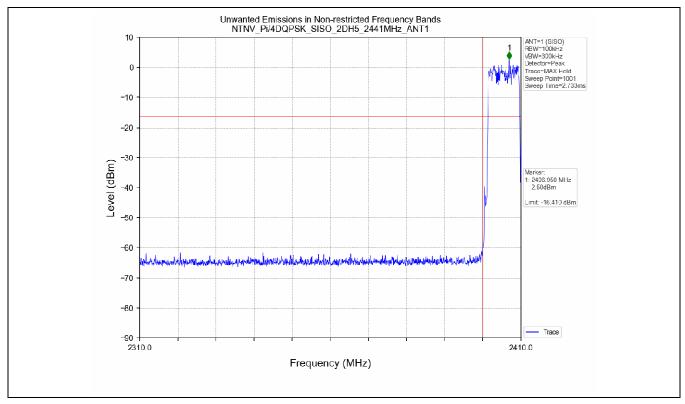
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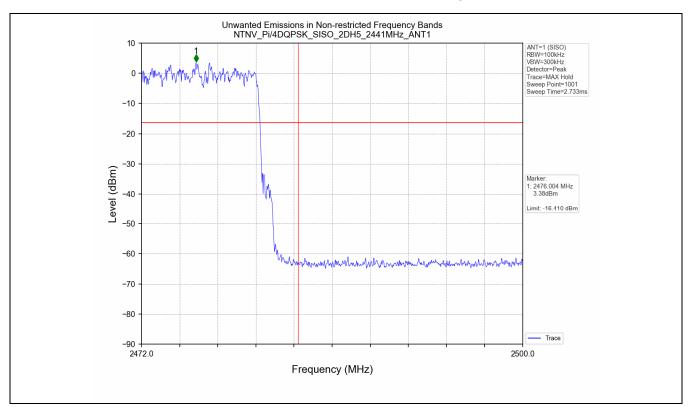
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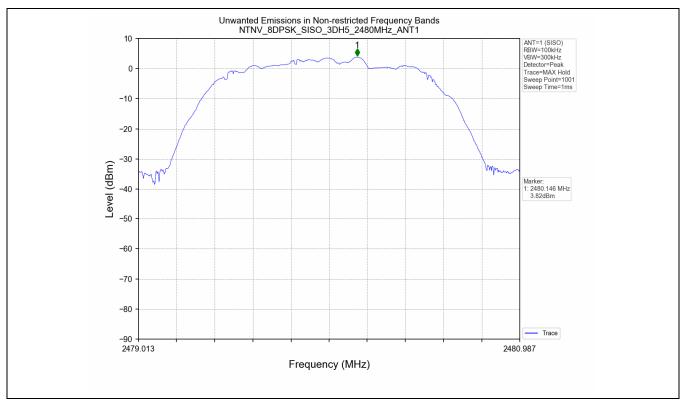
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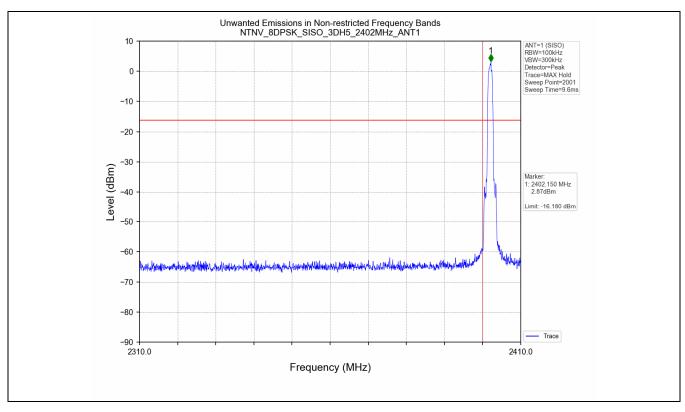
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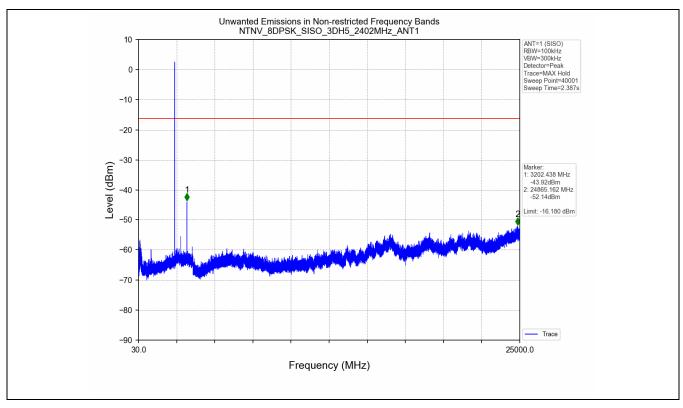
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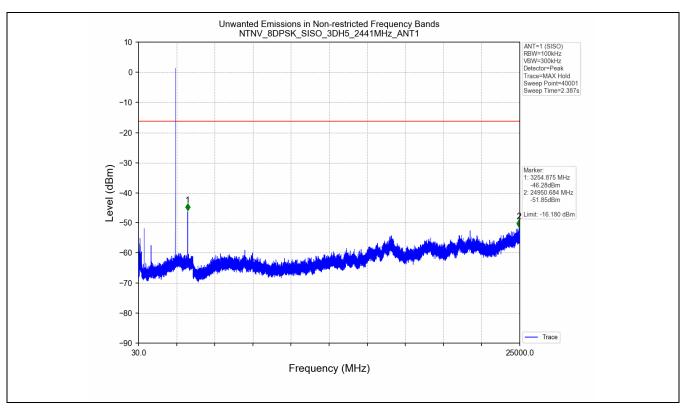
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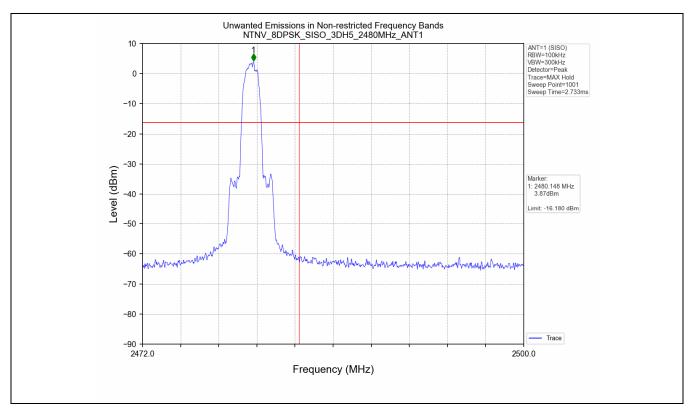
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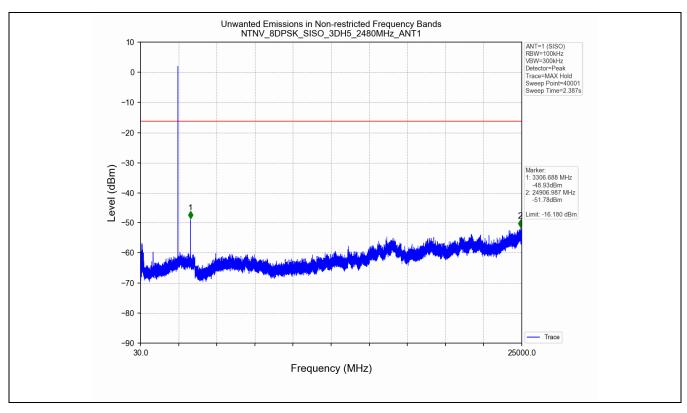
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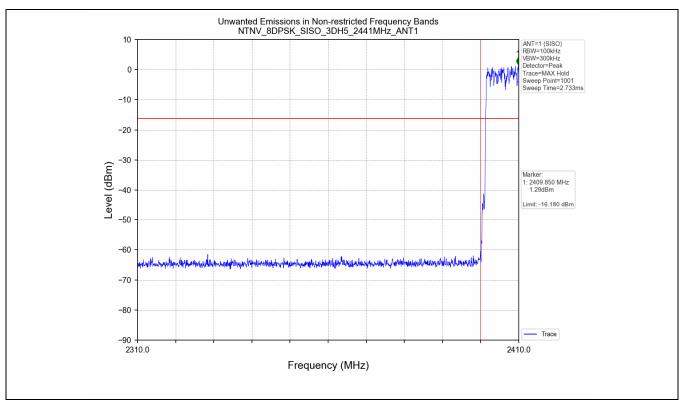
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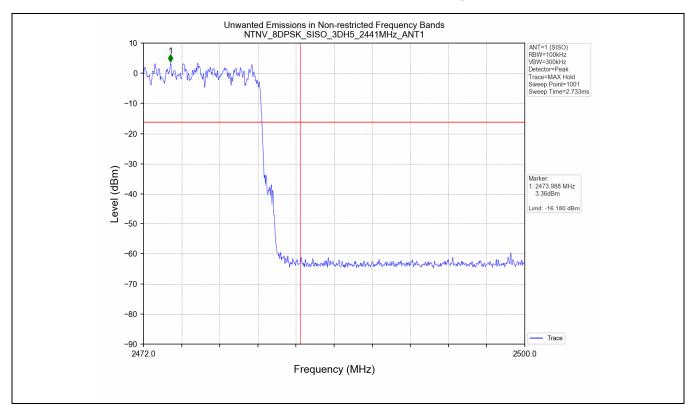
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