

Report No.: KSCR220800138301

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TEST REPORT

Application No.: KSCR2208001383AT **FCC ID:** SVN-HMC5100X

Applicant: ZHEJIANG DAHUA VISION TECHNOLOGY CO.,LTD.

Address of Applicant: No.1199, Bin'an Road, Binjiang District, Hangzhou, P.R. China

Manufacturer: ZHEJIANG DAHUA VISION TECHNOLOGY CO.,LTD.

Address of Manufacturer: No.1199, Bin'an Road, Binjiang District, Hangzhou, P.R. China

Equipment Under Test (EUT):

EUT Name: HIGH-PERFORMANCE MODULE COMPUTER

Model No.: DHI-HMC5100X-H-708C2-W10A-BW, DHI-HMC5100X,

(The "#" symbols might consist of numbers from 0 to 9, letters from A to Z or a to z, "/", "-", space, and null, which indicates different sales regions, client codes, or software functions, and the product reliability and

electromagnetic compatibility remain the same.)

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

actually tested and which were electrically identical.

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

Date of Receipt: 2022-08-09

Date of Test: 2022-08-15 to 2022-09-22

Date of Issue: 2022-10-02

Test Result: Pass*

Eric Lin Laboratory Manager

Jose fri



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



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	Revision Record				
Version	Description	Date	Remark		
00	Original	2022-10-02	/		

Authorized for issue by:		
	Paun. Liu	
	Pawn.Liu/Project Engineer	
	Eric fri	
	Eric Lin /Reviewer	



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2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)		ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Conducted Peak Output Power		ANSI C63.10 (2013) Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Minimum 6dB Bandwidth		ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Power Spectrum Density		ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Band Edges Measurement	47 CFR Part 15,	ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions	Subpart C 15.247	ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass

There are series models mentioned in this report and they are the similar in electrical and electronic characters. Only the model DHI-HMC5100X-H-708C2-W10A-BW was tested since their differences are model number and The "#" symbols might consist of numbers from 0 to 9, letters from A to Z or a to z, "/", "-", space, and null, which indicates different sales regions, client codes, or software functions.



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General Information

4.1 Details of E.U.T.

DC 12V,7.5A or DC 19V,4.74A
Adapter model:DPS-90AB-3
Input:100-240V,1-2A,50/60Hz
Output:12V,7.5A,90W
Adapter model:FSP090-DIEBN2
Input:100-240V,1.5A,50/60Hz
Output:12V,4.74A
2402MHz to 2480MHz
V5.0 Dual mode
GFSK
40
2MHz
1Mbps,2Mbps
Antenna1:Dipole Antenna with RP-SMA connector
Antenna1:4.43dBi (Provided by the manufacturer)
AC 120V/60Hz

4.2 Power level setting using in test:

Chamal	BLE	BLE	
Channel	1M	2M	
0	default	default	
19	default	default	
39	default	default	

4.3 Environment Parameter

		T		
Environment Paramete	er	Selected \	/alues During Te	sts
Relative Humidity		Ambient		
Value		Temperati	ure(°C)	Voltage(V)
NTNV		25		AC 120
Note:				
NV:Normal Voltage	LV:Low Extreme Test Vo	Itage	HV:High Extren	ne Test Voltage
NT:Normal Temperature	LT:Low Extreme Test Te	mperature	HT:High Extrem	ne Test Temperature

4.4 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Displayer	LENOVO	T2054 pC	VNA246PX



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Mouse	LENOVO	MS-370	512000000
Keyboard	LENOVO	SK-8827	8SSD50L80031AVLC0 5Y08DG

4.5 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4 x 10 ⁻⁸
2	Timeout	2s
3	Duty Cycle	0.37%
4	Occupied Bandwidth	3%
5	RF Conducted Power	0.6dB
6	RF Power Density	2.9dB
7	Conducted Spurious Emissions	0.75dB
8	DE Dadiated Dower	5.2dB (Below 1GHz)
0	RF Radiated Power	5.9dB (Above 1GHz)
		4.2dB (Below 30MHz)
	Dadiated Causiana Francisco Test	4.5dB (30MHz-1GHz)
9	Radiated Spurious Emission Test	5.1dB (1GHz-18GHz)
		5.4dB (Above 18GHz)
10	Temperature Test	1°C
11	Humidity Test	3%
12	Supply Voltages	1.5%
13	Time	3%

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



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4.6 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

Note:

- 1. SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).
- 2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).

4.7 Test Facility

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

CNAS

Compliance Certification Services (Kunshan) Inc. is accredited by the China National Accreditation Service for Conformity Assessment (CNAS). Registration No. CNAS L4354

A2LA

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

• FCC

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

ISED

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 2324E

VCCI

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.

4.8 Deviation from Standards

None

4.9 Abnormalities from Standard Conditions

None



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5 Equipment List

Item	Equipment	Manufacturer	Model	Inventory No	Cal Date	Cal. Due Date
Condu	cted Emission at Mains Ter	minals (150kHz-30N	MHz)			
1	EMI Test Receive	R&S	ESCI	KS301101	01/22/2022	01/21/2023
2	LISN	R&S	ENV216	KS301197	01/22/2022	01/21/2023
3	LISN	Schwarzbeck	NNLK 8129	KS301091	01/22/2022	01/21/2023
4	Pulse Limiter	R&S	ESH3-Z2	KUS1902E001	01/22/2022	01/21/2023
5	CE test Cable	Thermax	/	CZ301102	11/14/2021	11/13/2022
6	Test Software	Farad	EZ-EMC	/	N.C.R	N.C.R
RF Co	nducted Test					
1	Spectrum Analyzer	Keysight	N9020A	KUS1911E004-2	08/22/2022	08/21/2023
2	Spectrum Analyzer	Keysight	N9020A	KUS2001M001-2	08/22/2022	08/21/2023
3	Spectrum Analyzer	Keysight	N9030B	KSEM021-1	01/22/2022	01/21/2023
4	Signal Generator	R&S	SMW200A	KSEM020-1	08/22/2022	08/21/2023
5	Signal Generator	Agilent	N5182A	KUS2001M001-1	08/22/2022	08/21/2023
6	Radio Communication Test Station	Anritsu	MT8000A	KSEM001-1	08/22/2022	08/21/2023
7	Radio Communication Analyzer	Anritsu	MT8821C	KSEM002-1	04/01/2022	03/31/2023
8	Universal Radio Communication Tester	R&S	CMW500	KUS1911E004-1	08/22/2022	08/21/2023
9	Switcher	CCSRF	FY562	KUS2001M001-3	08/22/2022	08/21/2023
10	AC Power Source	EXTECH	6605	KS301178	N.C.R	N.C.R
11	DC Power Supply	Aglient	E3632A	KS301180	N.C.R	N.C.R
12	Conducted Test Cable	Thermax	RF01-RF04	CZ301111- CZ301120	01/16/2022	01/15/2023
13	Temp. / Humidity Chamber	TERCHY	MHK-120AK	KS301190	04/01/2021	03/31/2023
14	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-5	04/14/2022	04/13/2023
15	Software	BST	TST-PASS	/	N/A	N/A
RF Ra	diated Test					
1	Spectrum Analyzer	R&S	FSV40	KUS1806E003	08/22/2022	08/21/2023
2	Universal Radio Communication Tester	R&S	CMW500	KSEM009-1	04/01/2022	03/31/2023
3	Signal Generator	Agilent	E8257C	KS301066	08/22/2022	08/21/2023
4	Loop Antenna	COM-POWER	AL-130R	KUS1806E001	04/13/2021	04/12/2023
5	Bilog Antenna	TESEQ	CBL 6112D	KUS1806E005	06/29/2021	06/28/2023
6	Bilog Antenna	SCHWARZBECK	VULB9160	CZ301016	04/13/2021	04/12/2024
7	Horn-antenna(1-18GHz)	Schwarzbeck	BBHA9120D	KS301079	04/02/2022	04/01/2024
8	Horn-antenna(1-18GHz)	ETS-LINDGREN	3117	KS301186	02/22/2021	02/21/2023
9	Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	CZ301058	03/17/2022	03/16/2023
10	Amplifier(30MHz~18GHz)	PANSHAN TECHNOLOGY	LNA:1~18G	KSEM010-1	01/22/2022	01/21/2023
11	Amplifier(18~40GHz)	COM-POWER	PAM-840A	KUS1710E001	01/22/2022	01/21/2023
12	RE Test Cable	REBES MICROWAVE	/	CZ301097	11/14/2021	11/13/2022
13	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-4	01/04/2022	31/03/2023
14	Software	Faratronic	EZ_EMC-v 3A1	/	N/A	N/A



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

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

6.1.2 Conclusion

Standard Requirement:

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

15.247(b) (4) requirement:

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

EUT Antenna:

The antenna is Dipole Antenna and no consideration of replacement. The best case gain of the antenna is 4.43dBi..

Antenna location: Refer to internal photo.



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7 Radio Spectrum Matter Test Results

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

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

Limit:

Frequency of	Conducted limit(dBµV)				
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 (9k	Hz resolution bandwidth) 0.15M	to 30MHz			

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Humidity: 41.0 % RH Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps)_Power by adapter DPS-90AB-3 and Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-sacn	09	TX mode(1Mbps)_Power by adapter FSP090-DIEBN2 and Keep the EUT in continuously transmitting mode with GFSK modulation.



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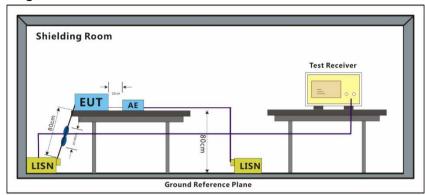
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7.1.3 Test Setup Diagram



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 $50 \text{ohm}/50 \mu\text{H} + 5 \text{ohm}$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

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



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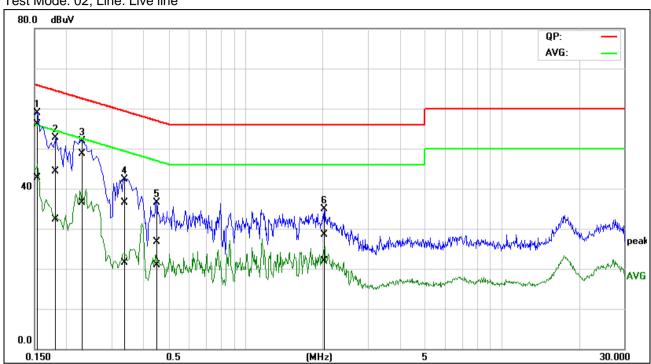
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Test Mode: 02; Line: Live line



No.	Frequency	QuasiPeak	Average	Correction	QuasiPeak	Average	QuasiPeak	Average	QuasiPeak	Average	Remark
		reading	reading	factor	result	result	limit	limit	margin	margin	
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1*	0.1500	36.66	23.23	19.50	56.16	42.73	66.00	56.00	-9.84	-13.27	Pass
2	0.1823	24.71	12.77	19.50	44.21	32.27	64.38	54.38	-20.17	-22.11	Pass
3	0.2301	29.29	16.91	19.50	48.79	36.41	62.45	52.45	-13.66	-16.04	Pass
4	0.3381	16.90	2.05	19.52	36.42	21.57	59.25	49.25	-22.83	-27.68	Pass
5	0.4530	7.11	1.36	19.55	26.66	20.91	56.82	46.82	-30.16	-25.91	Pass
6	2.0150	8.83	2.23	19.65	28.48	21.88	56.00	46.00	-27.52	-24.12	Pass



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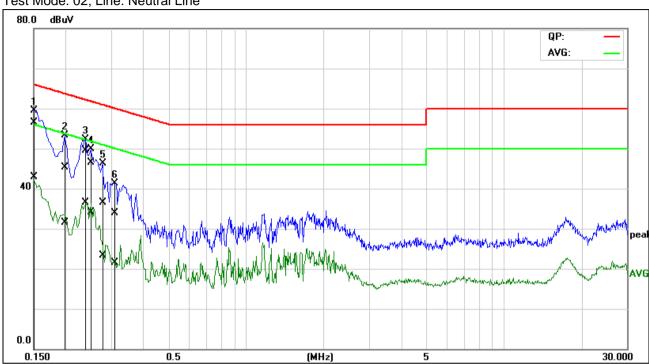
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Test Mode: 02; Line: Neutral Line



No.	Frequency	QuasiPeak	Average	Correction	QuasiPeak	Average	QuasiPeak	Average	QuasiPeak	Average	Remark
		reading	reading	factor	result	result	limit	limit	margin	margin	
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1*	0.1500	36.96	23.36	19.48	56.44	42.84	66.00	56.00	-9.56	-13.16	Pass
2	0.1993	25.81	12.03	19.49	45.30	31.52	63.64	53.64	-18.34	-22.12	Pass
3	0.2346	30.03	17.04	19.49	49.52	36.53	62.29	52.29	-12.77	-15.76	Pass
4	0.2467	26.99	14.57	19.49	46.48	34.06	61.87	51.87	-15.39	-17.81	Pass
5	0.2797	17.02	3.74	19.50	36.52	23.24	60.82	50.82	-24.30	-27.58	Pass
6	0.3104	14.45	1.99	19.50	33.95	21.49	59.96	49.96	-26.01	-28.47	Pass



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7.2 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)
Test Method: ANSI C63.10 (2013) Section 11.9.1

Limit:

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

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Humidity: 41.0 % RH Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

Tible 1000 Mode Booth priori							
Pre-scan / Final test	Mode Code	Description					
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.					
Final test	03	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.					
Pre-sacn	09	TX mode(1Mbps)_Power by adapter FSP090-DIEBN2 and Keep the EUT in continuously transmitting mode with GFSK modulation.					
Pre-sacn	10	TX mode(2Mbps)_Power by adapter FSP090-DIEBN2 and Keep the EUT in continuously transmitting mode with GFSK modulation.					



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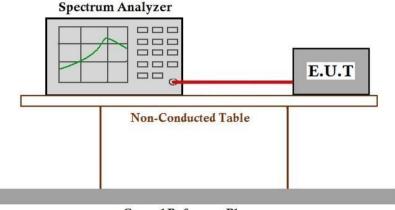
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7.2.3 Test Setup Diagram



Ground Reference Plane

7.2.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details



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7.3 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)
Test Method: ANSI C63.10 (2013) Section 11.8.1

Limit:

≥500 kHz

7.3.1 E.U.T. Operation

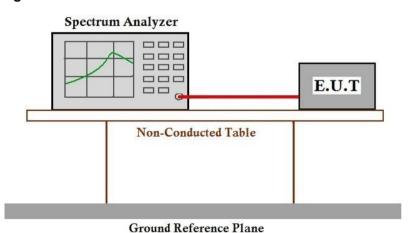
Operating Environment:

Temperature: 23.6 °C Humidity: 41.1 % RH Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

	Tiola Tool mode accomplish							
Pre-scan / Final test	Mode Code	Description						
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.						
Final test	03	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.						
Pre-sacn	09	TX mode(1Mbps)_Power by adapter FSP090-DIEBN2 and Keep the EUT in continuously transmitting mode with GFSK modulation.						
Pre-sacn	10	TX mode(2Mbps)_Power by adapter FSP090-DIEBN2 and Keep the EUT in continuously transmitting mode with GFSK modulation.						

7.3.3 Test Setup Diagram





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7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.4 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e)
Test Method: ANSI C63.10 (2013) Section 11.10.2

Limit:

≤8dBm in any 3 kHz band during any time interval of continuous transmission

7.4.1 E.U.T. Operation

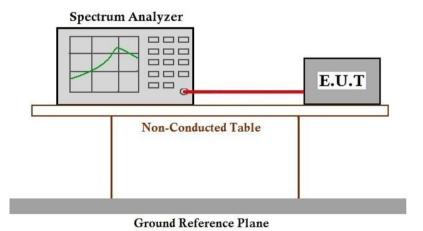
Operating Environment:

Temperature: 23.6 °C Humidity: 41.1 % RH Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description						
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.						
Final test	03	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.						
Pre-sacn	09	TX mode(1Mbps)_Power by adapter FSP090-DIEBN2 and Keep the EUT in continuously transmitting mode with GFSK modulation.						
Pre-sacn	10	TX mode(2Mbps)_Power by adapter FSP090-DIEBN2 and Keep the EUT in continuously transmitting mode with GFSK modulation.						

7.4.3 Test Setup Diagram





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7.4.4 Measurement Procedure and Data

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7.5 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
Test Method: ANSI C63.10 (2013) Section 11.13.3.2

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).

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Humidity: 41.1 % RH Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

7.0.2 10001	7.3.2 Test Mode Description							
Pre-scan / Final test	Mode Code	Description						
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.						
Final test	03	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.						
Pre-sacn	09	TX mode(1Mbps)_Power by adapter FSP090-DIEBN2 and Keep the EUT in continuously transmitting mode with GFSK modulation.						
Pre-sacn	10	TX mode(2Mbps)_Power by adapter FSP090-DIEBN2 and Keep the EUT in continuously transmitting mode with GFSK modulation.						



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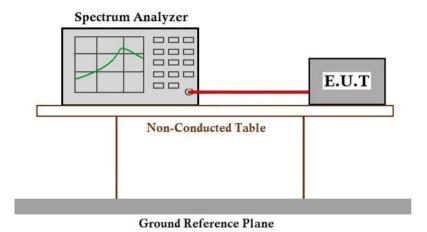
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7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

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7.6 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
Test Method: ANSI C63.10 (2013) Section 11.11

Limit:

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

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Humidity: 41.1 % RH Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

11012 100111	7.0.2 Test mode bescription							
Pre-scan / Final test	Mode Code	Description						
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.						
Final test	03	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.						
Pre-sacn	09	TX mode(1Mbps)_Power by adapter FSP090-DIEBN2 and Keep the EUT in continuously transmitting mode with GFSK modulation.						
Pre-sacn	10	TX mode(2Mbps)_Power by adapter FSP090-DIEBN2 and Keep the EUT in continuously transmitting mode with GFSK modulation.						



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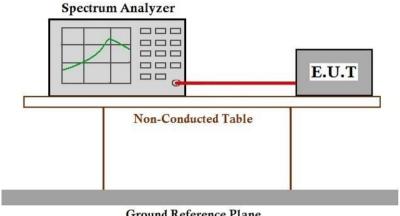
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7.6.3 Test Setup Diagram



Ground Reference Plane

7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.7 Radiated Emissions which fall in the restricted bands

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

Test Method: ANSI C63.10 (2013) Section 6.10.5

Limit:

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

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

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 22.8 °C Humidity: 60.0 % RH Atmospheric Pressure: 1010 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	03	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-sacn	09	TX mode(1Mbps)_Power by adapter FSP090-DIEBN2 and Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-sacn	10	TX mode(2Mbps)_Power by adapter FSP090-DIEBN2 and Keep the EUT in continuously transmitting mode with GFSK modulation.



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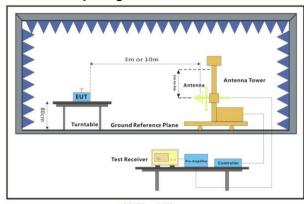
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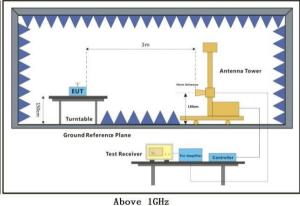


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7.7.3 Test Setup Diagram





30MHz-1GHz



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7.7.4 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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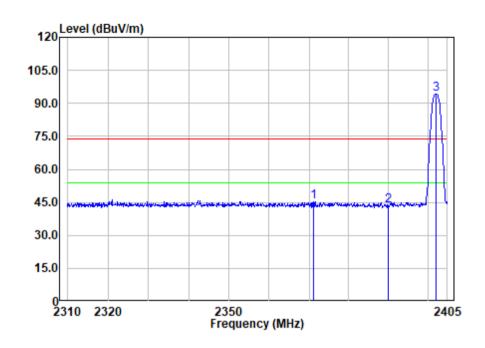
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Test Mode: 02; Polarity: Horizontal; Modulation: GFSK; Channel:Low



	Aux	Preamp	Read		Limit	0ver		
Freq	Factor	Factor	Level	Level	Line	Limit	Remark	
MHz	dB	dB	dBuV	dBuV/m	dBuV/m	dB		
2371.180	0.00	42.92	55.87	45.32	74.00	-28.68	Peak	
2390.000	0.00	42.92	54.13	43.63	74.00	-30.37	Peak	
2402.055	0.00	42.93	104.55	94.08	74.00	20.08	Peak	
	MHz 2371.180 2390.000	Freq Factor MHz dB 2371.180 0.00 2390.000 0.00	Hreq Factor Factor MHz dB dB 2371.180 0.00 42.92 2390.000 0.00 42.92	MHz dB dB dBuV 2371.180 0.00 42.92 55.87 2390.000 0.00 42.92 54.13	MHz dB dB dBuV dBuV/m 2371.180 0.00 42.92 55.87 45.32 2390.000 0.00 42.92 54.13 43.63	MHz dB dB dBuV dBuV/m dBuV/m 2371.180 0.00 42.92 55.87 45.32 74.00 2390.000 0.00 42.92 54.13 43.63 74.00	MHz dB dB dBuV dBuV/m dBuV/m dB 2371.180 0.00 42.92 55.87 45.32 74.00 -28.68 2390.000 0.00 42.92 54.13 43.63 74.00 -30.37	Freq Factor Factor Level Level Line Limit Remark



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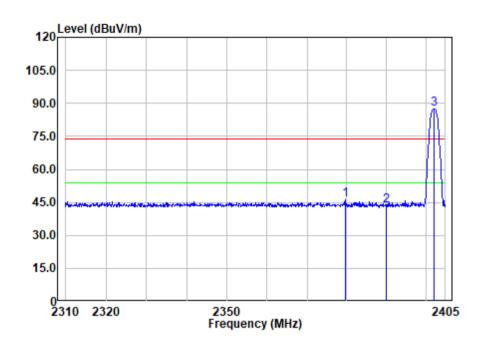
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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low



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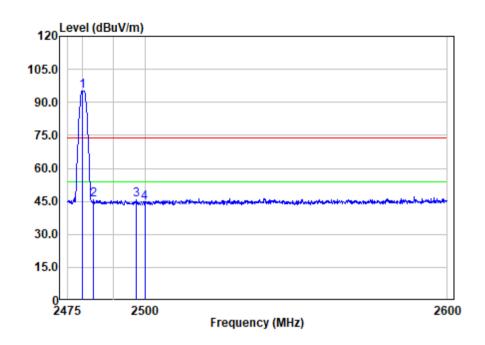
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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:High



		Aux	Preamp	Read		Limit	0ver	
	Freq	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV/m	dBuV/m	——dB	
1	2480.000	0.00	42.94	105.28	95.19	74.00	21.19	Peak
2	2483.500	0.00	42.94	55.75	45.68	74.00	-28.32	Peak
3	2497.375	0.00	42.94	55.52	45.52	74.00	-28.48	Peak
4	2500.000	0.00	42.94	54.15	44.16	74.00	-29.84	Peak



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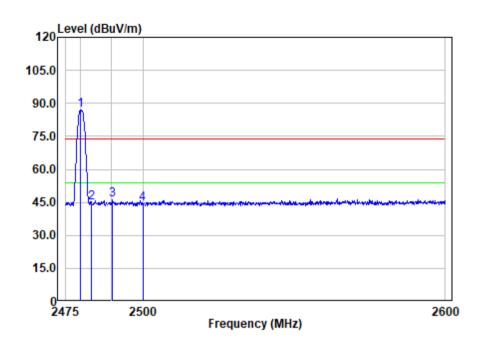
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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:High



		Aux	Preamp	Read		Limit	0ver	
	Freq	Factor	Factor	Level	Level	Line	Limit	Remark
_								
	MHz	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2480.000	0.00	42.94	96.89	86.80	74.00	12.80	Peak
2	2483.500	0.00	42.94	55.04	44.97	74.00	-29.03	Peak
3	2490.250	0.00	42.94	56.03	45.99	74.00	-28.01	Peak
4	2500.000	0.00	42.94	54.26	44.27	74.00	-29.73	Peak



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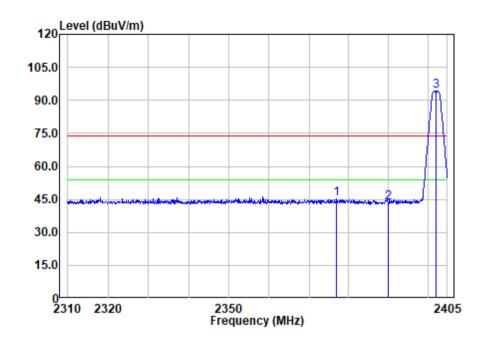
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Test Mode: 03; Polarity: Horizontal; Modulation:GFSK Channel:Low



	Aux	Preamp	Read		Limit	0ver		
Freq	Factor	Factor	Level	Level	Line	Limit	Remark	
•								
MHz	dB	dB	dBuV	dBuV/m	dBuV/m	dB		
2376.975	0.00	42.92	55.65	45.12	74.00	-28.88	Peak	
2390.000	0.00	42.92	54.18	43.68	74.00	-30.32	Peak	
2402.150	0.00	42.93	104.75	94.28	74.00	20.28	Peak	
	MHz 2376.975 2390.000	Freq Factor MHz dB 2376.975 0.00 2390.000 0.00	HHz dB dB 2376.975 0.00 42.92 2390.000 0.00 42.92	Freq Factor Factor Level MHz dB dB dBuV 2376.975 0.00 42.92 55.65 2390.000 0.00 42.92 54.18	MHz dB dB dBuV dBuV/m 2376.975 0.00 42.92 55.65 45.12 2390.000 0.00 42.92 54.18 43.68	MHz dB dB dBuV dBuV/m dBuV/m 2376.975 0.00 42.92 55.65 45.12 74.00 2390.000 0.00 42.92 54.18 43.68 74.00	MHz dB dB dBuV dBuV/m dBuV/m dB 2376.975 0.00 42.92 55.65 45.12 74.00 -28.88 2390.000 0.00 42.92 54.18 43.68 74.00 -30.32	Freq Factor Factor Level Level Line Limit Remark



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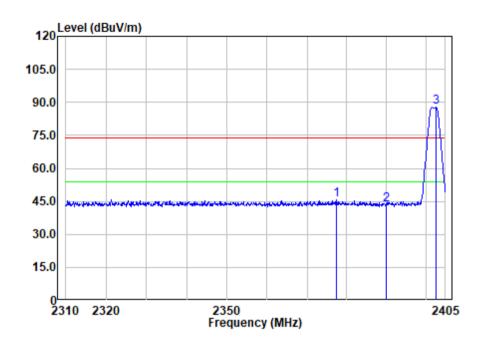
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Test Mode: 03; Polarity: Vertical; Modulation:GFSK;Channel:Low



	Aux	Preamp	Read		Limit	0ver		
Freq	Factor	Factor	Level	Level	Line	Limit	Remark	
MHz	dB	dB	dBuV	dBuV/m	dBuV/m	dB		
2377.355	0.00	42.92	56.27	45.74	74.00	-28.26	Peak	
2390.000	0.00	42.92	54.05	43.55	74.00	-30.45	Peak	
2402.625	0.00	42.93	98.18	87.71	74.00	13.71	Peak	
	MHz 2377.355 2390.000	Freq Factor MHz dB 2377.355 0.00 2390.000 0.00	MHz dB dB 2377.355 0.00 42.92 2390.000 0.00 42.92	MHz dB dB dBuV 2377.355 0.00 42.92 56.27 2390.000 0.00 42.92 54.05	MHz dB dB dBuV dBuV/m 2377.355 0.00 42.92 56.27 45.74 2390.000 0.00 42.92 54.05 43.55	MHz dB dB dBuV dBuV/m dBuV/m 2377.355 0.00 42.92 56.27 45.74 74.00 2390.000 0.00 42.92 54.05 43.55 74.00	MHz dB dB dBuV dBuV/m dBuV/m dB 2377.355 0.00 42.92 56.27 45.74 74.00 -28.26 2390.000 0.00 42.92 54.05 43.55 74.00 -30.45	Freq Factor Factor Level Level Line Limit Remark



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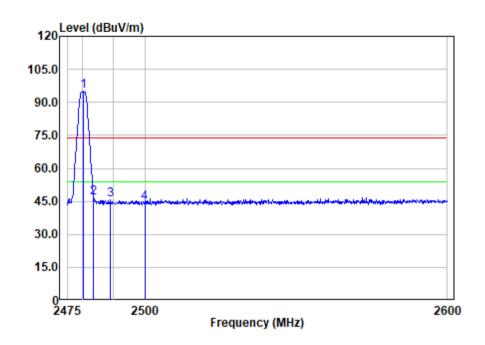
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Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:High



		Aux	Preamp	Read		Limit	0ver	
	Freq	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV/m	dBuV/m	——dB	
1	2480.125	0.00	42.94	104.96	94.87	74.00	20.87	Peak
2	2483.500	0.00	42.94	56.50	46.43	74.00	-27.57	Peak
3	2489.000	0.00	42.94	55.58	45.53	74.00	-28.47	Peak
4	2500.000	0.00	42.94	54.27	44.28	74.00	-29.72	Peak



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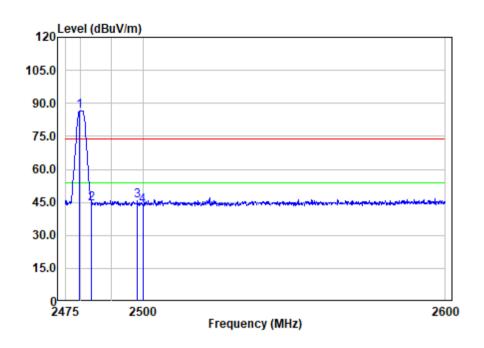
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Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:High



		Aux	Preamp	Read		Limit	0ver	
	Freq	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV/m	dBuV/m	——dB	
1	2479.625	0.00	42.94	96.68	86.59	74.00	12.59	Peak
2	2483.500	0.00	42.94	54.36	44.29	74.00	-29.71	Peak
3	2498.375	0.00	42.94	55.88	45.88	74.00	-28.12	Peak
4	2500.000	0.00	42.94	53.61	43.62	74.00	-30.38	Peak



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7.8 Radiated Spurious Emissions Below 1GHz

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

Test Method: ANSI C63.10 (2013) Section 6.4,6.5

Measurement Distance: 3m

Limit:

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

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 21.0 °C Humidity: 51.4 % RH Atmospheric Pressure: 1010 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-sacn	09	TX mode(1Mbps)_Power by adapter FSP090-DIEBN2 and Keep the EUT in continuously transmitting mode with GFSK modulation.



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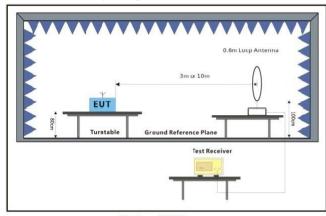
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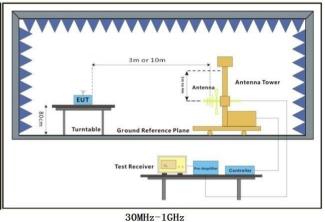


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7.8.3 Test Setup Diagram





Below 30MHz



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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. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete. Remark:
- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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Test Mode: 02; Polarity: Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	125.4457	12.51	19.46	31.97	43.50	-11.53	200	56	QP
2	228.4904	22.02	17.42	39.44	46.00	-6.56	100	180	QP
3	326.7395	17.25	21.16	38.41	46.00	-7.59	100	85	QP
4	595.1327	12.81	27.00	39.81	46.00	-6.19	100	0	QP
5	742.2586	37.74	2.38	40.12	46.00	-5.88	100	12	QP
6	890.7278	39.13	2.39	41.52	46.00	-4.48	200	360	QP



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Test Mode: 02; Polarity: Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	32.6340	7.88	25.07	32.95	40.00	-7.05	100	59	QP
2	100.9340	15.85	17.23	33.08	43.50	-10.42	100	360	QP
3	127.2176	14.46	19.45	33.91	43.50	-9.59	100	5	QP
4	227.3080	21.84	17.30	39.14	46.00	-6.86	100	1	QP
5	413.2706	9.26	23.93	33.19	46.00	-12.81	100	345	QP
6	601.4265	9.62	27.09	36.71	46.00	-9.29	100	249	QP



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7.9 Radiated Spurious Emissions Above 1GHz

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

Test Method: ANSI C63.10 (2013) Section 6.6

Limit:

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

7.9.1 E.U.T. Operation

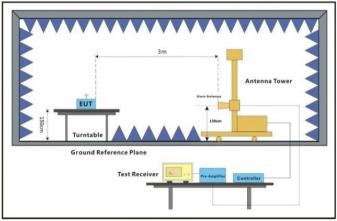
Operating Environment:

Temperature: 22.8 °C Humidity: 58.5 % RH Atmospheric Pressure: 1010 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	03	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-sacn	09	TX mode(1Mbps)_Power by adapter FSP090-DIEBN2 and Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-sacn	10	TX mode(2Mbps)_Power by adapter FSP090-DIEBN2 and Keep the EUT in continuously transmitting mode with GFSK modulation.

7.9.3 Test Setup Diagram



Above 1GHz



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7.9.4 Measurement Procedure and Data

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete. Remark:
- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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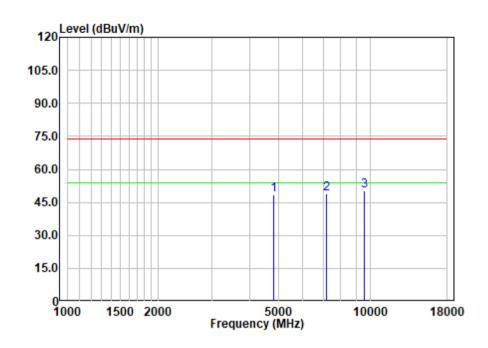
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Test Mode: 02; Polarity: Horizontal; Modulation: GFSK; Channel:Low



		Aux	Preamp	Read		Limit	0ver	
	Freq	Factor	Factor	Level	Level	Line	Limit	Remark
	_							
	MHz	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4804.000	0.00	42.37	48.70	48.63	74.00	-25.37	Peak
2	7206.000	0.00	42.65	46.00	49.13	74.00	-24.87	Peak
3	9608.000	0.00	41.99	43.09	50.31	74.00	-23.69	Peak



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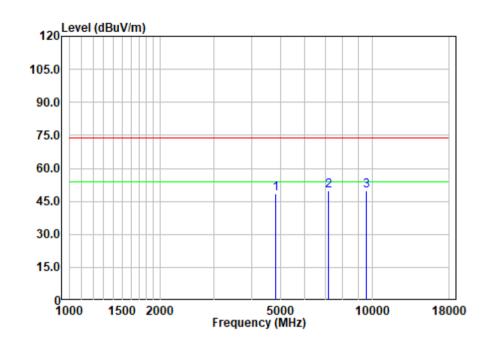
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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low



		Aux	Preamp	Read		Limit	0ver	
	Freq	Factor	Factor	Level	Level	Line	Limit	Remark
	_							
	MHz	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4804.000	0.00	42.37	48.37	48.30	74.00	-25.70	Peak
2	7206.000	0.00	42.65	46.73	49.86	74.00	-24.14	Peak
3	9608.000	0.00	41.99	42.78	50.00	74.00	-24.00	Peak



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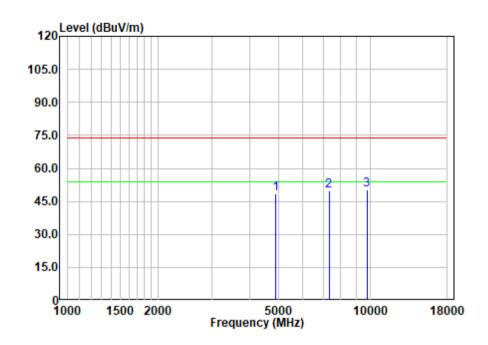
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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:middle



		Aux	Preamp	Read		Limit	0ver	
	Freq	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4880.000	0.00	41.88	47.87	48.34	74.00	-25.66	Peak
2	7320.000	0.00	42.49	46.34	49.77	74.00	-24.23	Peak
3	9760.000	0.00	42.57	43.38	50.27	74.00	-23.73	Peak



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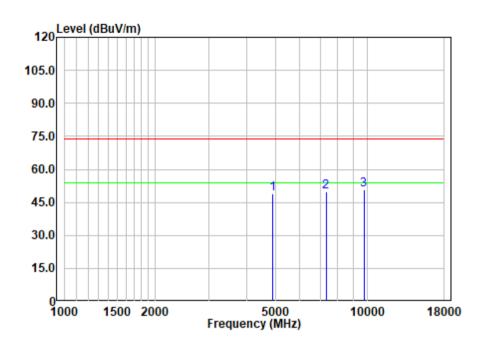
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Report No.: KSCR220800138301

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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:middle



		Aux	Preamp	Read		Limit	0ver	
	Freq	Factor	Factor	Level	Level	Line	Limit	Remark
	_							
	MHz	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4880.000	0.00	41.88	48.50	48.97	74.00	-25.03	Peak
2	7320.000	0.00	42.49	46.22	49.65	74.00	-24.35	Peak
3	9760.000	0.00	42.57	43.89	50.78	74.00	-23.22	Peak



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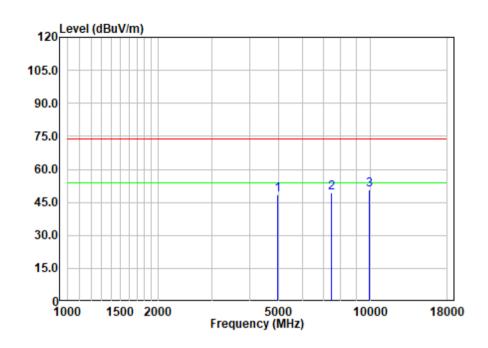
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Report No.: KSCR220800138301

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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:High



	Aux	Preamp	Read		Limit	0ver		
Freq	Factor	Factor	Level	Level	Line	Limit	Remark	
MHz	dB	dB	dBuV	dBuV/m	dBuV/m	dB		
4960.000	0.00	41.59	47.49	48.28	74.00	-25.72	Peak	
7440.000	0.00	42.47	45.95	49.56	74.00	-24.44	Peak	
9920.000	0.00	42.27	43.28	50.69	74.00	-23.31	Peak	
	MHz 4960.000 7440.000	Freq Factor MHz dB 4960.000 0.00 7440.000 0.00	MHz dB dB 4960.000 0.00 41.59 7440.000 0.00 42.47	MHz dB dB dBuV 4960.000 0.00 41.59 47.49 7440.000 0.00 42.47 45.95	MHz dB dB dBuV dBuV/m 4960.000 0.00 41.59 47.49 48.28 7440.000 0.00 42.47 45.95 49.56	MHz dB dB dBuV dBuV/m dBuV/m	MHz dB dB dBuV dBuV/m dBuV/m dB 4960.000 0.00 41.59 47.49 48.28 74.00 -25.72 7440.000 0.00 42.47 45.95 49.56 74.00 -24.44	Freq Factor Level Level Line Limit Remark MHz dB dB dBuV dBuV/m dBuV/m dB 4960.000 0.00 41.59 47.49 48.28 74.00 -25.72 Peak



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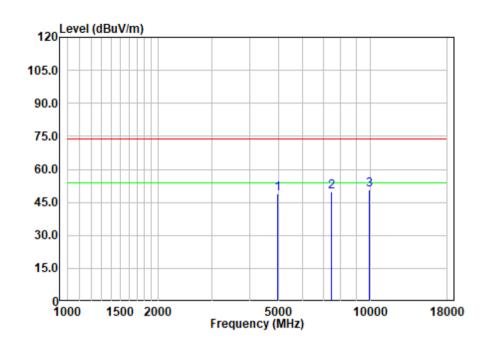
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Report No.: KSCR220800138301

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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:High



	Aux	Preamp	Read		Limit	0ver		
Freq	Factor	Factor	Level	Level	Line	Limit	Remark	
MHz	dB	dB	dBuV	dBuV/m	dBuV/m	dB		
4960.000	0.00	41.59	48.03	48.82	74.00	-25.18	Peak	
7440.000	0.00	42.47	46.12	49.73	74.00	-24.27	Peak	
9920.000	0.00	42.27	43.41	50.82	74.00	-23.18	Peak	
	MHz 4960.000 7440.000	HHz dB 4960.000 0.00 7440.000 0.00	MHz dB dB 4960.000 0.00 41.59 7440.000 0.00 42.47	MHz dB dB dBuV 4960.000 0.00 41.59 48.03 7440.000 0.00 42.47 46.12	MHz dB dB dBuV dBuV/m 4960.000 0.00 41.59 48.03 48.82 7440.000 0.00 42.47 46.12 49.73	MHz dB dB dBuV dBuV/m dBuV/m 4960.000 0.00 41.59 48.03 48.82 74.00 7440.000 0.00 42.47 46.12 49.73 74.00	MHz dB dB dBuV dBuV/m dBuV/m dB 4960.000 0.00 41.59 48.03 48.82 74.00 -25.18 7440.000 0.00 42.47 46.12 49.73 74.00 -24.27	Freq Factor Factor Level Level Line Limit Remark



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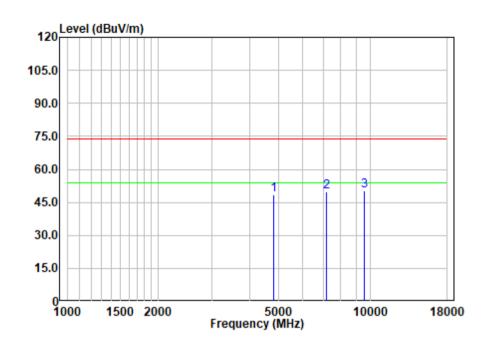
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Report No.: KSCR220800138301

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Test Mode: 03; Polarity: Horizontal; Modulation:GFSK;; Channel:Low



	Aux	Preamp	Read		Limit	0ver		
Freq	Factor	Factor	Level	Level	Line	Limit	Remark	
MHz	dB	dB	dBuV	dBuV/m	dBuV/m	dB		
4804.000	0.00	42.37	48.59	48.52	74.00	-25.48	Peak	
7206.000	0.00	42.65	46.63	49.76	74.00	-24.24	Peak	
9608.000	0.00	41.99	43.01	50.23	74.00	-23.77	Peak	
	MHz 4804.000 7206.000	HHz dB 4804.000 0.00 7206.000 0.00	Freq Factor Factor	Freq Factor Factor Level MHz dB dB dBuV 4804.000 0.00 42.37 48.59 7206.000 0.00 42.65 46.63	MHz dB dB dBuV dBuV/m 4804.000 0.00 42.37 48.59 48.52 7206.000 0.00 42.65 46.63 49.76	MHz dB dB dBuV dBuV/m dBuV/m 4804.000 0.00 42.37 48.59 48.52 74.00 7206.000 0.00 42.65 46.63 49.76 74.00	MHz dB dB dBuV dBuV/m dBuV/m dB 4804.000 0.00 42.37 48.59 48.52 74.00 -25.48 7206.000 0.00 42.65 46.63 49.76 74.00 -24.24	Freq Factor Factor Level Level Line Limit Remark MHz dB dB dBuV dBuV/m dBuV/m dB



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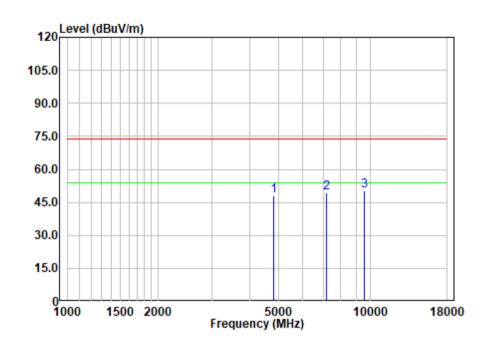
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Report No.: KSCR220800138301

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Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:Low



		Aux	Preamp	Read		Limit	0ver	
	Freq	Factor	Factor	Level	Level	Line	Limit	Remark
	_							
	MHz	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4804.000	0.00	42.37	48.16	48.09	74.00	-25.91	Peak
2	7206.000	0.00	42.65	46.30	49.43	74.00	-24.57	Peak
3	9608.000	0.00	41.99	43.06	50.28	74.00	-23.72	Peak



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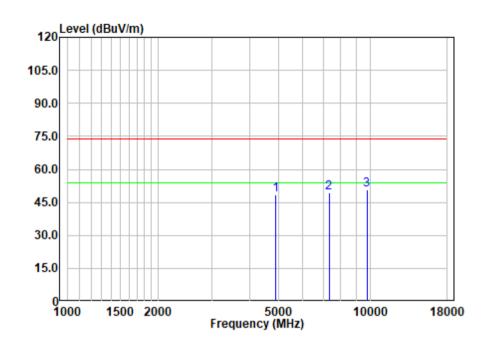
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Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:middle



		Aux	Preamp	Read		Limit	0ver		
	Freq	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB	dBuV	dBuV/m	dBuV/m	dB		
1	4880.000	0.00	41.88	47.89	48.36	74.00	-25.64	Peak	
2	7320.000	0.00	42.49	46.09	49.52	74.00	-24.48	Peak	
3	9760.000	0.00	42.57	44.02	50.91	74.00	-23.09	Peak	



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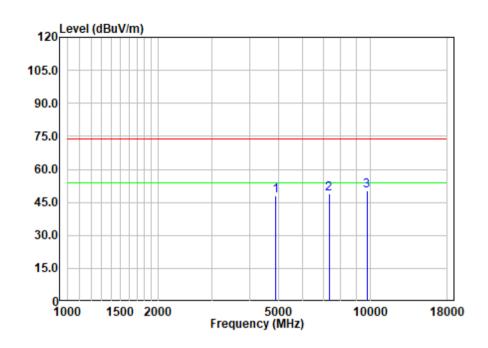
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Report No.: KSCR220800138301

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Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:middle



		Aux	Preamp	Read		Limit	0ver	
	Freq	Factor	Factor	Level	Level	Line	Limit	Remark
	_							
	MHz	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4880.000	0.00	41.88	47.72	48.19	74.00	-25.81	Peak
2	7320.000	0.00	42.49	45.57	49.00	74.00	-25.00	Peak
3	9760.000	0.00	42.57	43.24	50.13	74.00	-23.87	Peak



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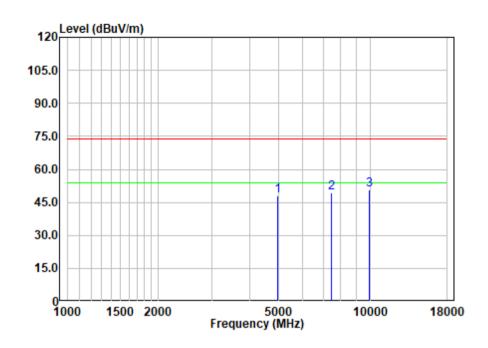
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Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:High



		Aux	Preamp	Read		Limit	0ver	
	Freq	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4960.000	0.00	41.59	47.37	48.16	74.00	-25.84	Peak
2	7440.000	0.00	42.47	45.80	49.41	74.00	-24.59	Peak
3	9920.000	0.00	42.27	43.28	50.69	74.00	-23.31	Peak



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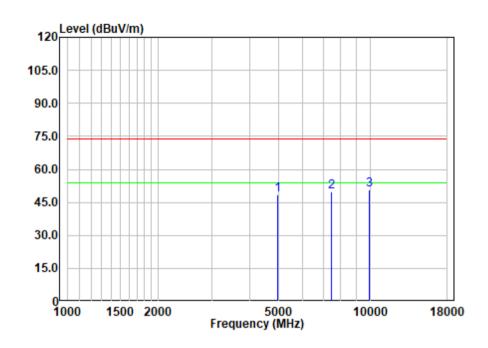
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Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:High



		Aux	Preamp	Read		Limit	0ver	
	Freq	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4960.000	0.00	41.59	47.47	48.26	74.00	-25.74	Peak
2	7440.000	0.00	42.47	46.38	49.99	74.00	-24.01	Peak
3	9920.000	0.00	42.27	43.15	50.56	74.00	-23.44	Peak



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for KSCR2208001383AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for KSCR2208001383AT



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10 Appendix

Appendix for KSCR2208001383AT

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

	Ant1									
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)			
	M SISO	2402	2.145	2.499	85.83	0.66	0.03			
1M		2440	2.145	2.500	85.80	0.67	0.03			
		2480	2.145	2.500	85.80	0.67	0.04			
		2402	1.089	1.876	58.05	2.36	0.09			
2M	SISO	2440	1.088	1.875	58.03	2.36	0.03			
		2480	1.088	1.874	58.06	2.36	0.03			



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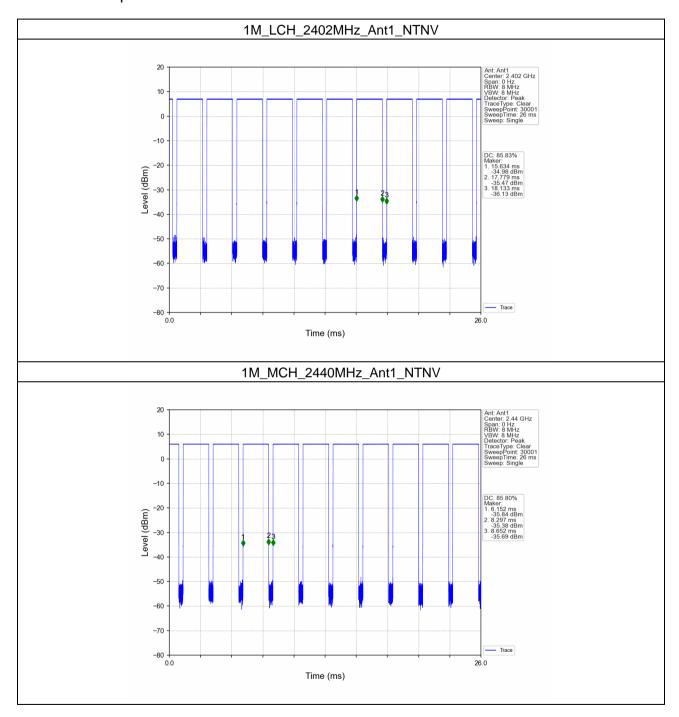
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1.1.2 Test Graph





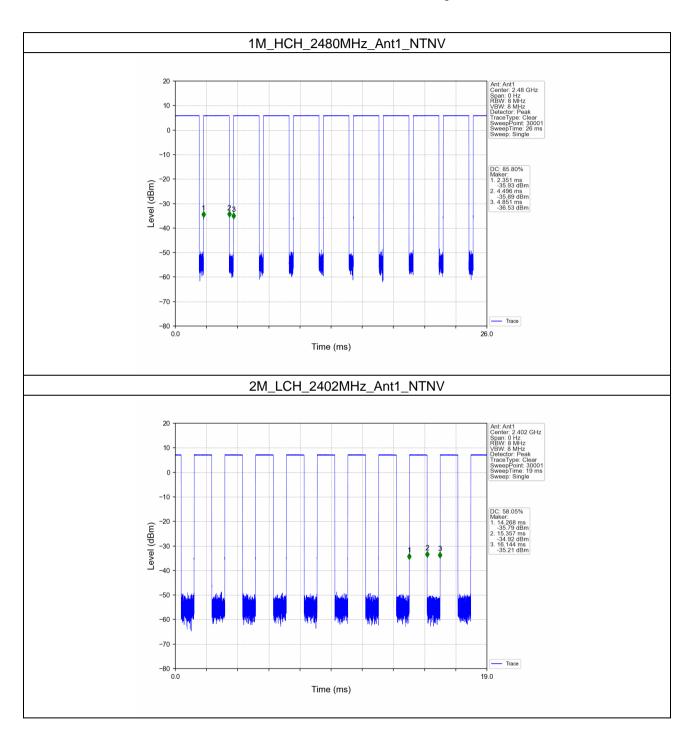
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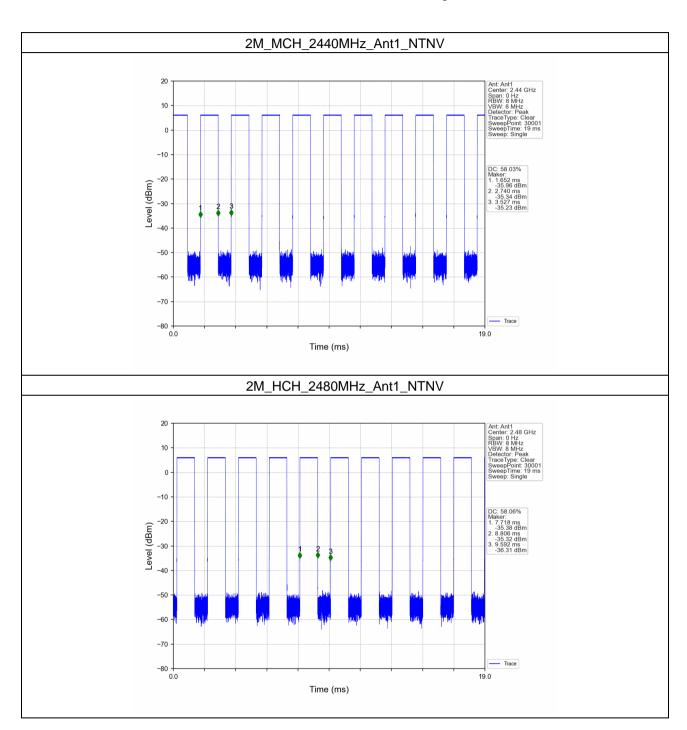
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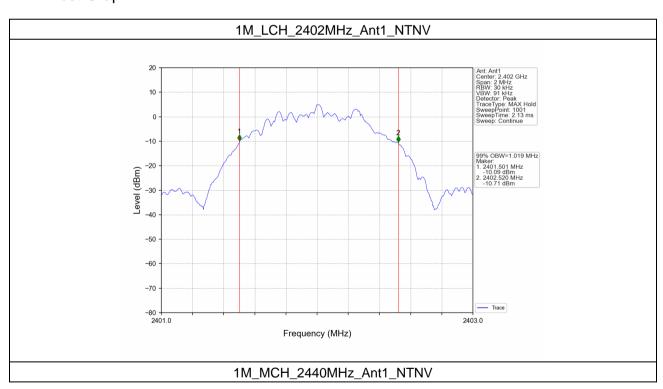
2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX	Frequency	ANIT	99% Occupied Bandwidth (MHz)	Verdict
Mode	Type	(MHz)	ANT	Result	
	SISO	2402	1	1.019	Pass
1M		2440	1	1.029	Pass
		2480	1	1.027	Pass
	SISO	2402	1	2.062	Pass
2M		2440	1	2.063	Pass
		2480	1	2.057	Pass

2.1.2 Test Graph





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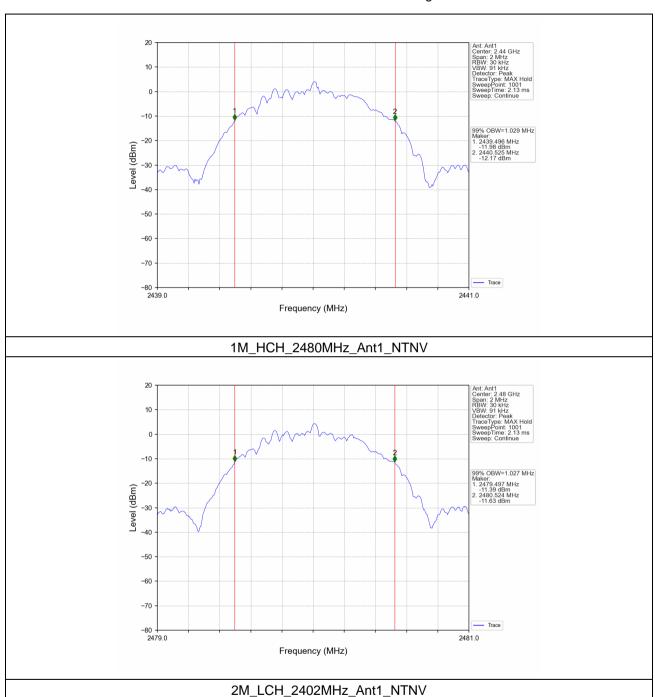
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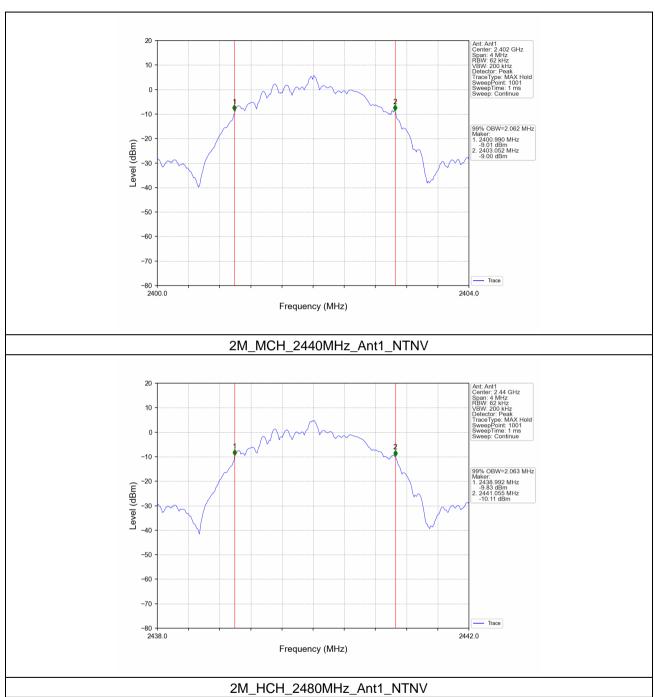
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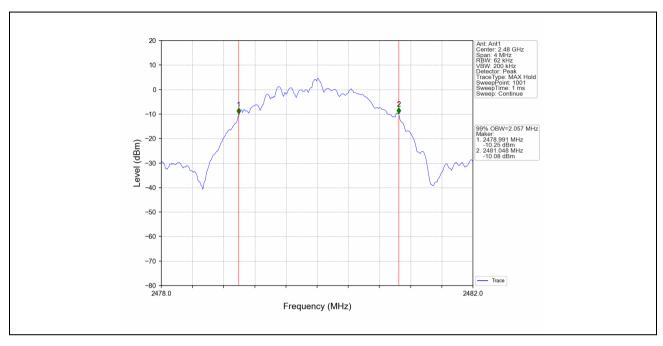
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2.2 6dB BW

2.2.1 Test Result

Mode	TX	Frequency (MHz)	ANT	6dB Bandv	vidth (MHz)	Verdict
Mode	Туре		ANI	Result	Limit	
		2402	1	0.661	>=0.5	Pass
1M	SISO	2440	1	0.669	>=0.5	Pass
		2480	1	0.664	>=0.5	Pass
		2402	1	1.131	>=0.5	Pass
2M	SISO	2440	1	1.132	>=0.5	Pass
		2480	1	1.141	>=0.5	Pass



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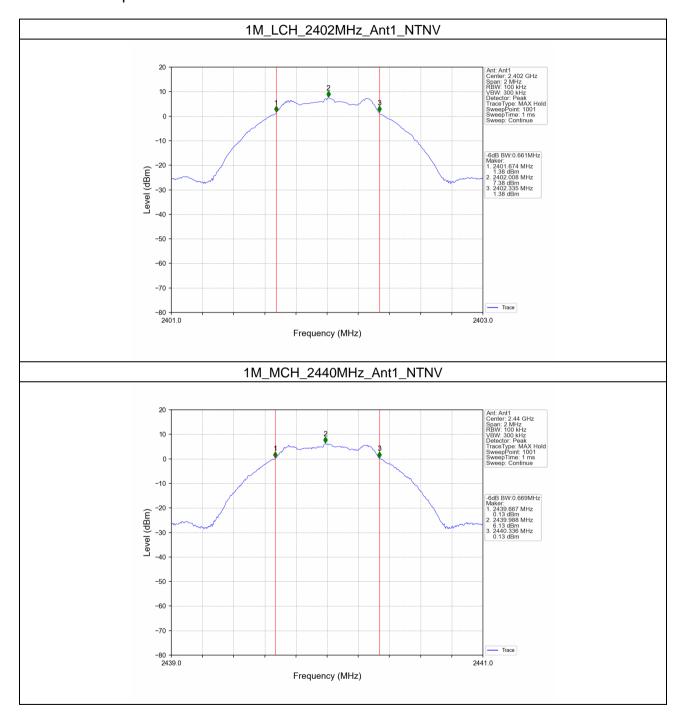
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2.2.2 Test Graph





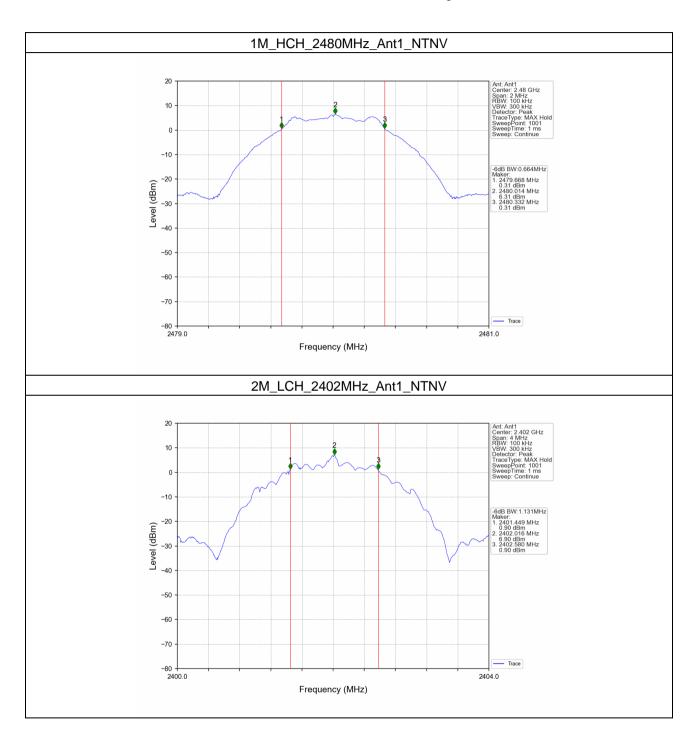
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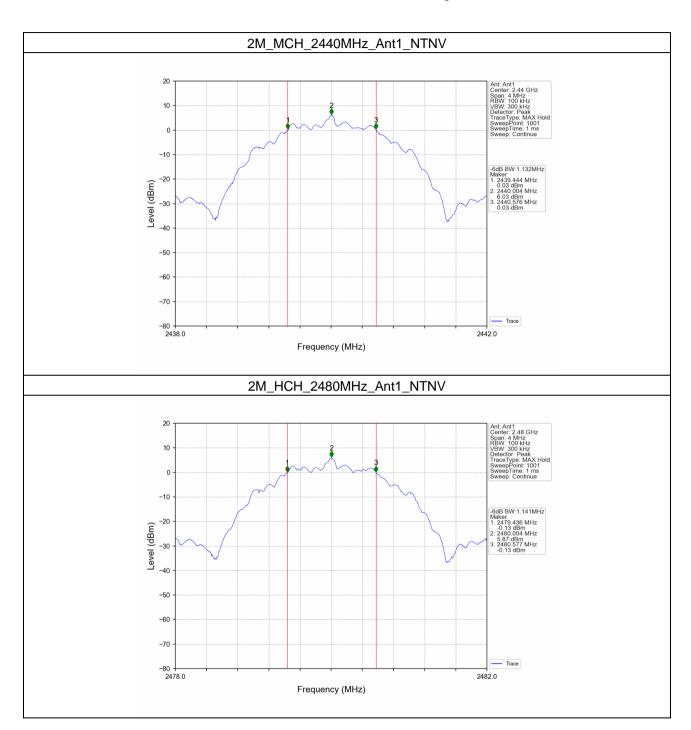
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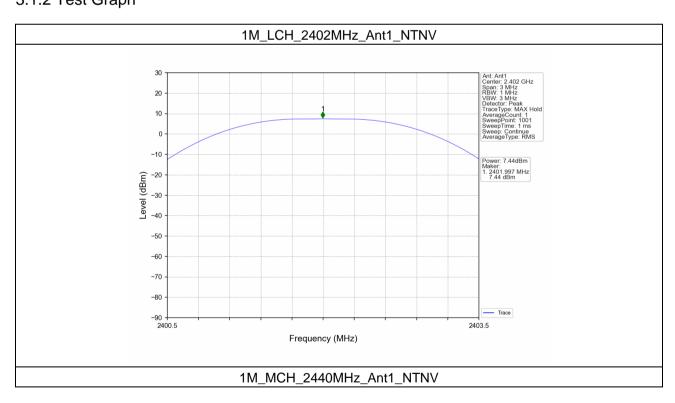
3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX	Frequency	Maximum Peak Conduc	ted Output Power (dBm)	Verdict			
	Туре	(MHz)	ANT1	Limit	verdict			
		2402	7.44	<=30	Pass			
1M	SISO	2440	6.58	<=30	Pass			
		2480	6.42	<=30	Pass			
		2402	7.15	<=30	Pass			
2M	SISO	2440	6.20	<=30	Pass			
		2480	6.06	<=30	Pass			
Note1: Ant	Note1: Antenna Gain: Ant1: 4.43dBi:							

3.1.2 Test Graph





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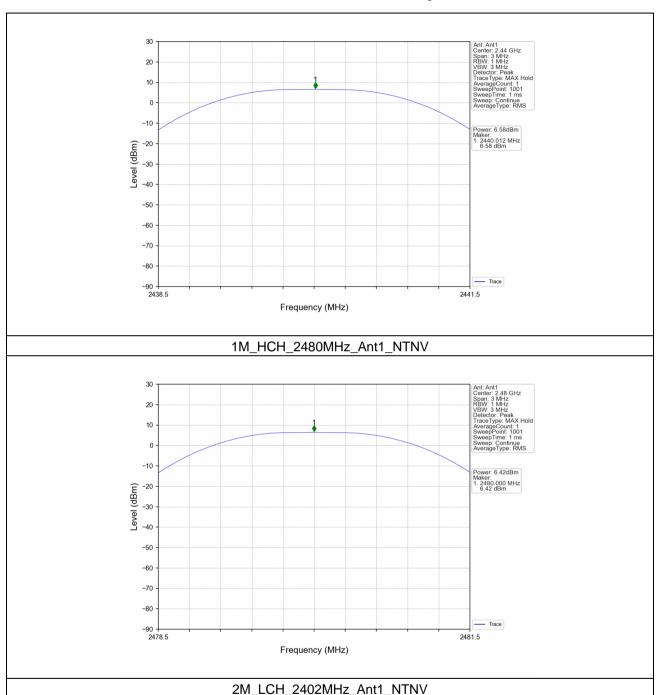
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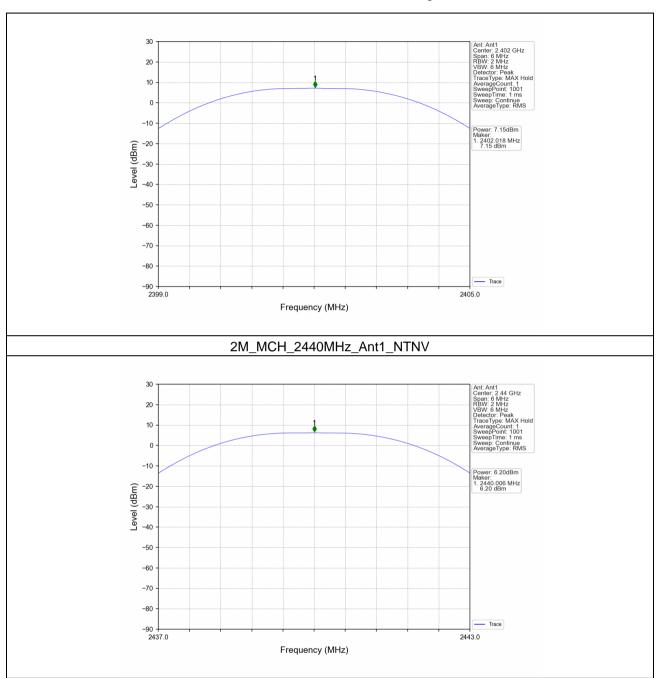
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2M HCH 2480MHz Ant1 NTNV



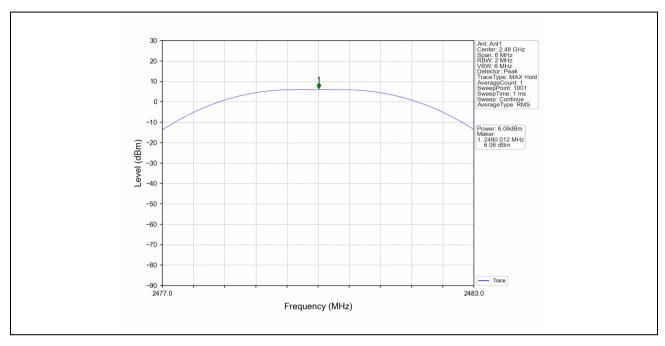
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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX	Frequency	Maximum PSD (dBm/3kHz)		Vordist			
Mode	Type	(MHz)	ANT1	Limit	Verdict			
		2402	-8.90	<=8	Pass			
1M	SISO	2440	-7.53	<=8	Pass			
		2480	-10.11	<=8	Pass			
		2402	-10.92	<=8	Pass			
2M	SISO	2440	-11.24	<=8	Pass			
		2480	-12.23	<=8	Pass			
Note1: Anteni	Note1: Antenna Gain: Ant1: 4.43dBi;							



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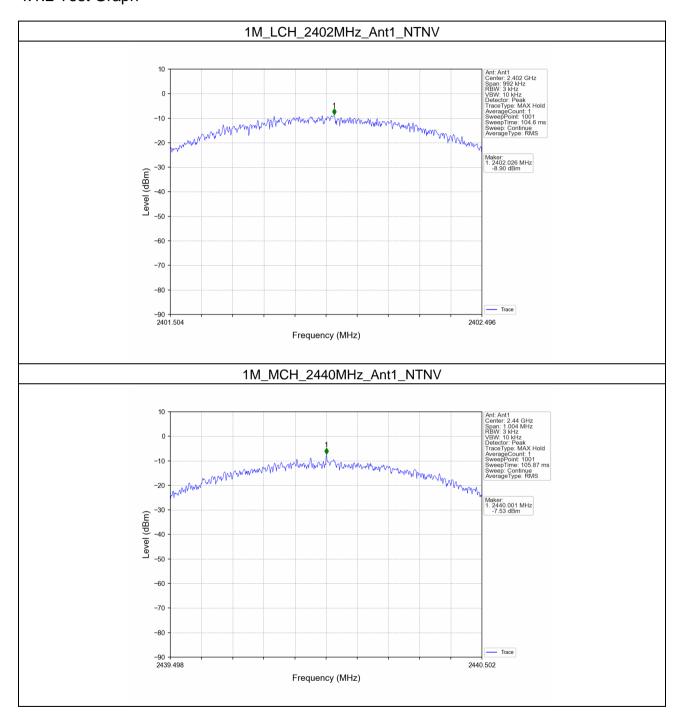
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4.1.2 Test Graph





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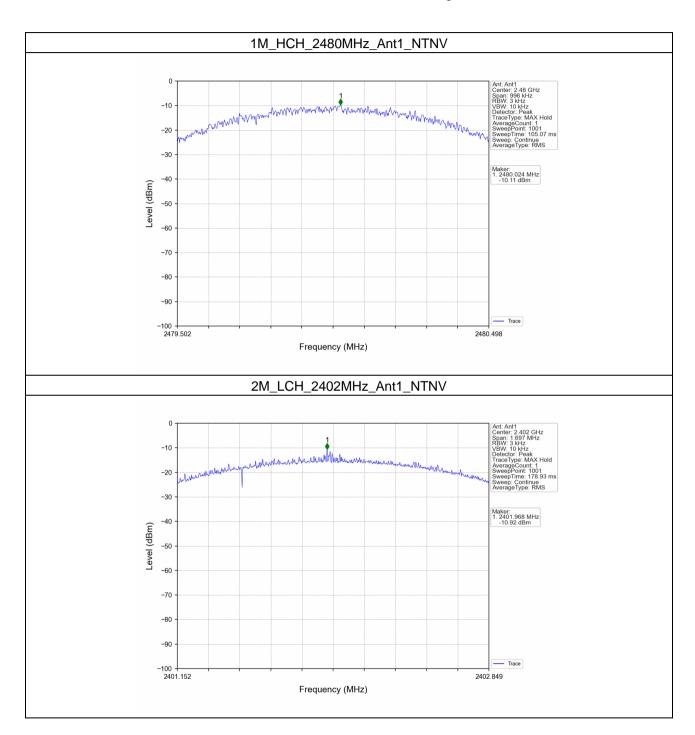
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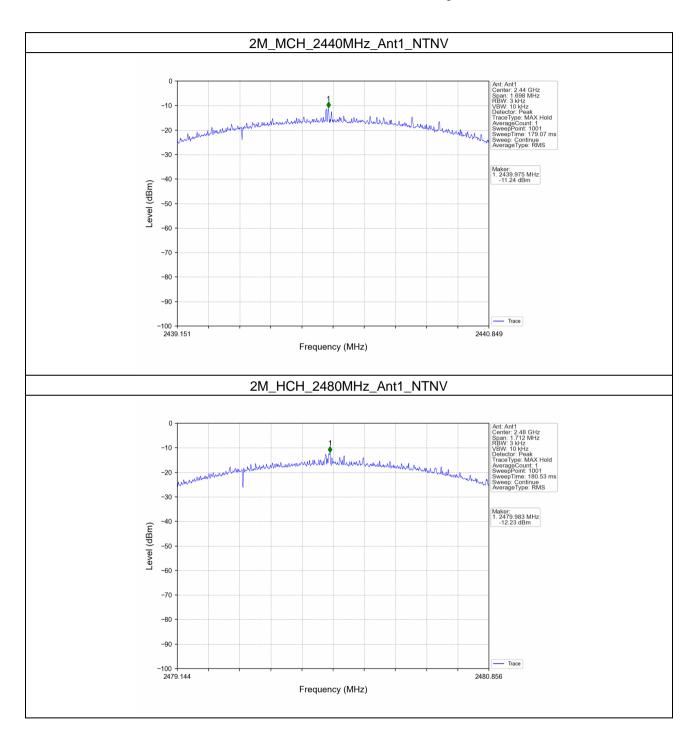
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5. Unwanted Emissions InStandard Non-restricted Frequency Bands

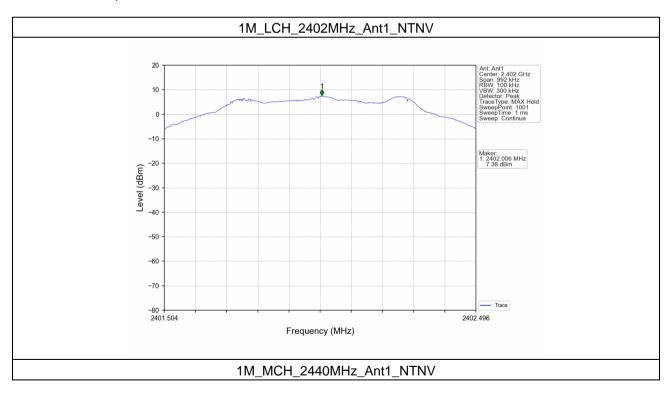
5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
		2402	1	7.38
1M	SISO	2440	1	6.53
		2480		6.38
		2402	1	6.98
2M	SISO	2440	1	5.98
		2480	1	5.87

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.

5.1.2 Test Graph





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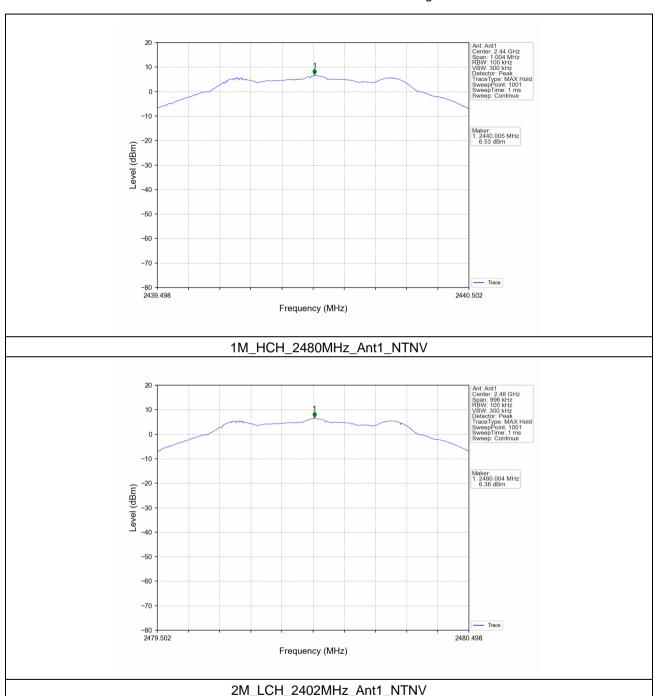
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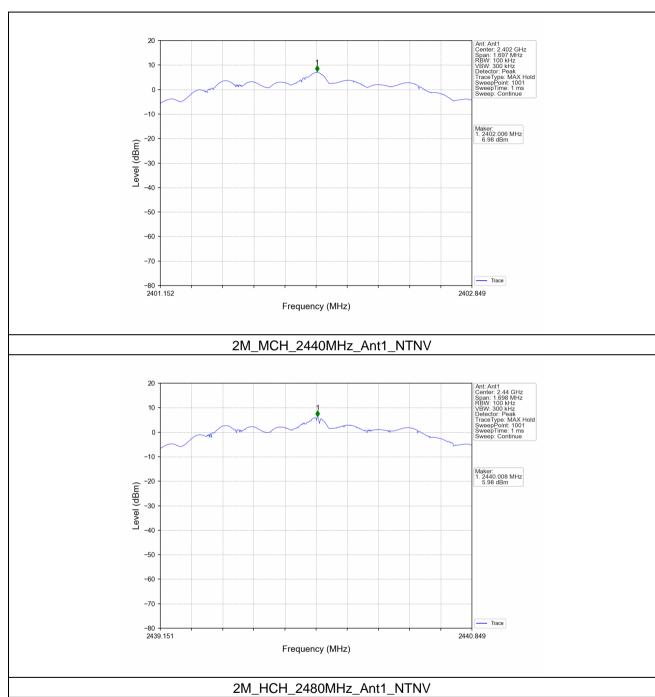
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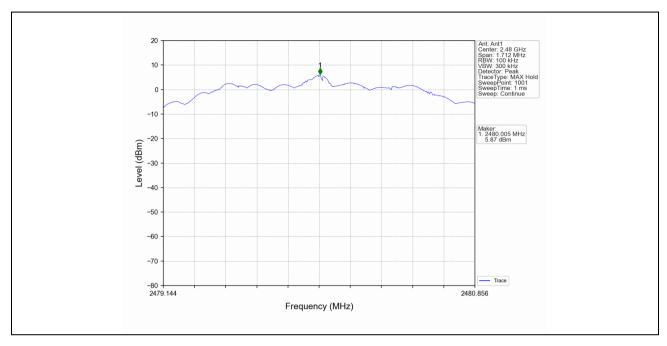
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5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
		2402	1	7.38	-12.62	Pass
1M	SISO	2440	1	7.38	-12.62	Pass
		2480	1	7.38	-12.62	Pass
		2402	1	6.98	-13.02	Pass
2M	SISO	2440	1	6.98	-13.02	Pass
		2480	1	6.98	-13.02	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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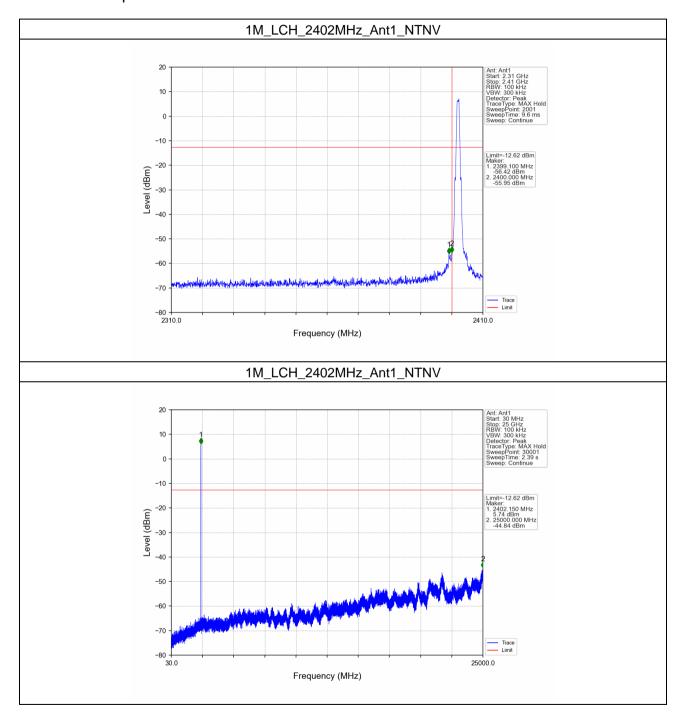
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5.2.2 Test Graph





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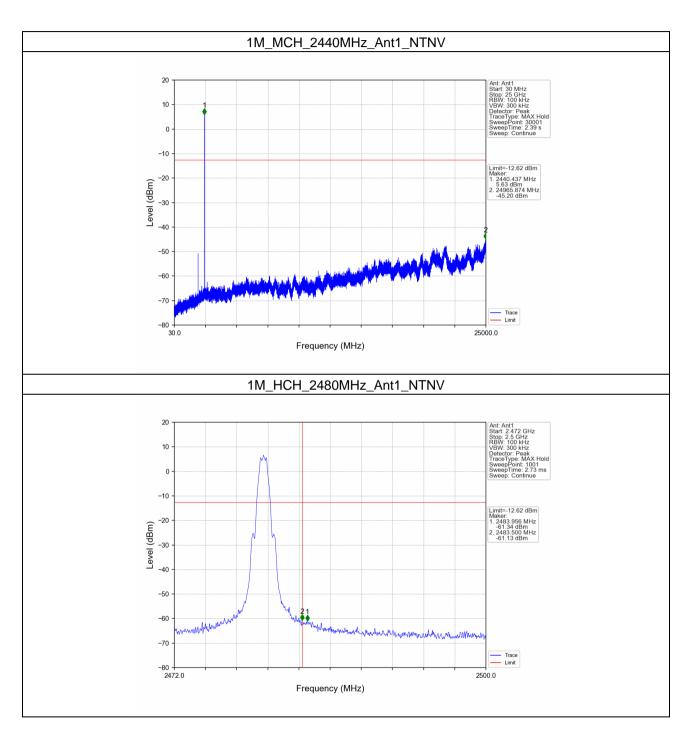
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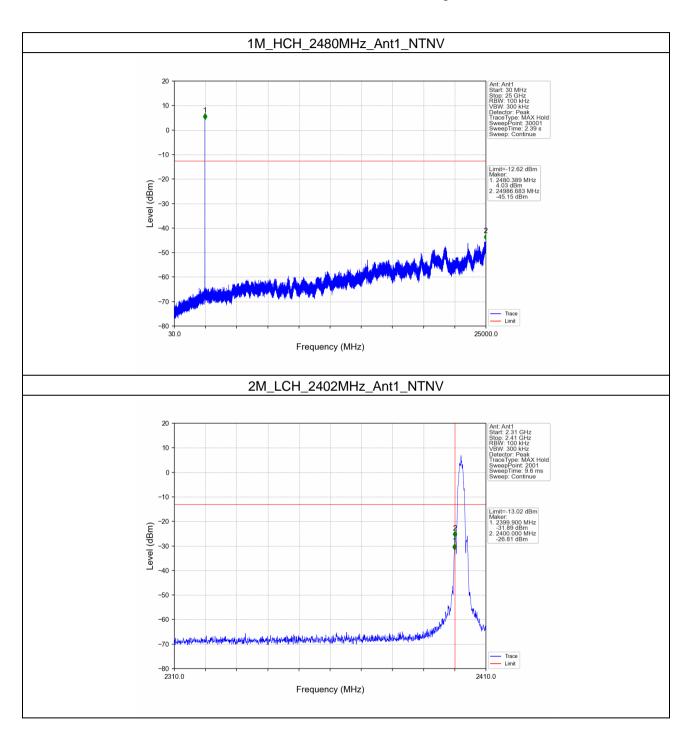
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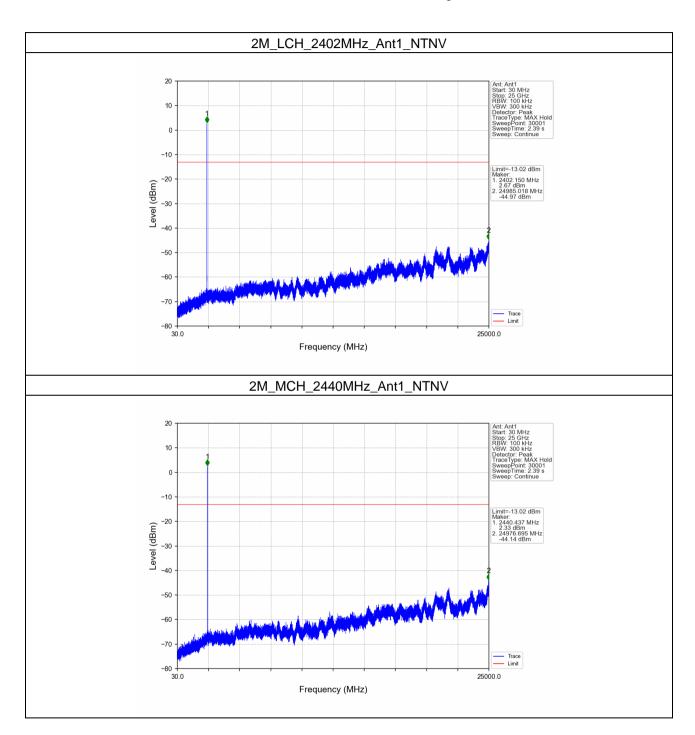
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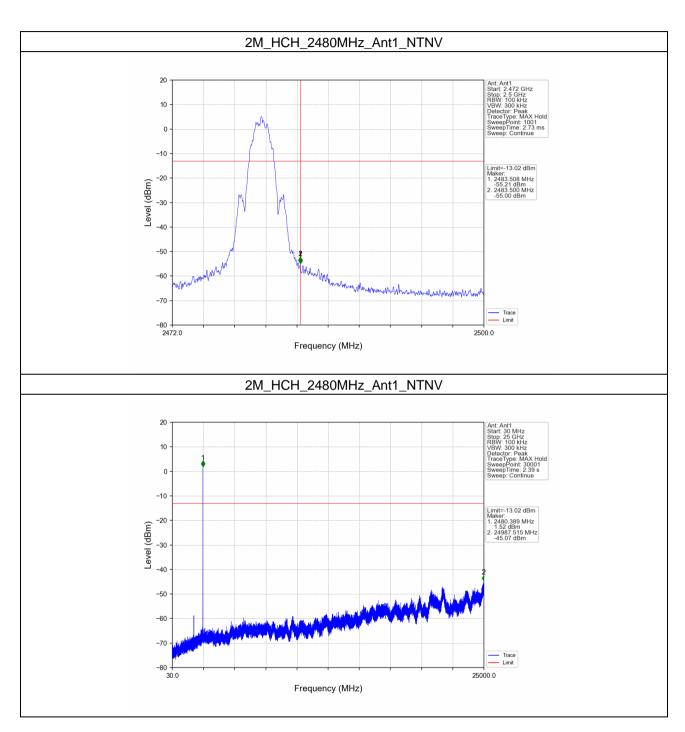
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