



## TEST REPORT

**Application No.:** GZCR2109021158AT  
**Applicant:** BlueCollars BV  
**Address of Applicant:** Beemdheuvel 28 Best 5685AE Netherlands  
**Manufacturer:** BlueCollars BV  
**Address of Manufacturer:** Beemdheuvel 28 Best 5685AE Netherlands  
**Factory:** BlueCollars BV  
**Address of Factory:** Beemdheuvel 28 Best 5685AE Netherlands  
**Equipment Under Test (EUT):**  
**EUT Name:** GK Wireless System  
**Model No.:** GKWS052  
**Trade Mark:** GKWS  
**Standard(s) :** 47 CFR Part 15, Subpart C 15.247  
**Date of Receipt:** 2021-09-29  
**Date of Test:** 2021-09-29 to 2021-10-09  
**Date of Issue:** 2021-10-11

<b>Test Result:</b>	Pass*
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\* In the configuration tested, the EUT complied with the standards specified above.

Kobe Jian

EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021-09-29		Original

Authorized for issue by			
		Curry Wu/Project Engineer	
		Ricky Liu/Reviewer	

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## 2 Test Summary

<b>Radio Spectrum Technical Requirement</b>				
<b>Item</b>	<b>Standard</b>	<b>Method</b>	<b>Requirement</b>	<b>Result</b>
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

<b>Radio Spectrum Matter Part</b>				
<b>Item</b>	<b>Standard</b>	<b>Method</b>	<b>Requirement</b>	<b>Result</b>
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.9.1.3	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		ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions		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 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions (Above 1GHz)		ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass

### Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

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## 4 General Information

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

Power supply:	DC 3.7V 3100mAh*2
Operation Frequency:	2406MHz-2474MHz
Modulation Type:	DSSS (CCK, DQPSK, DBPSK)
Channel Spacing:	4MHz
Number of Channels:	18
Antenna Type:	PCB Antenna
Antenna Gain:	3dBi

#### Operation Frequency each of channel

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2406MHz	6	2426MHz	11	2446MHz	16	2466MHz
2	2410MHz	7	2430MHz	12	2450MHz	17	2470MHz
3	2414MHz	8	2434MHz	13	2454MHz	18	2474MHz
4	2418MHz	9	2438MHz	14	2458MHz		
5	2422MHz	10	2442MHz	15	2462MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Selected Test Channel	
Channel	Frequency
The lowest channel (CH1)	2406MHz
The middle channel (C9)	2438MHz
The highest channel (CH18)	2474MHz

### 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 Peak Output Power	± 0.75dB
Minimum 6dB Bandwidth	± 3%
Power Spectrum Density	± 2.84dB
Conducted Band Edges Measurement	± 0.75dB
Conducted Spurious Emissions	± 0.75dB
Radiated Emissions which fall in the restricted bands	±5.08dB (1GHz-6GHz);±5.14dB (above 6GHz)
Radiated Spurious Emissions (Below 1GHz)	±5.06dB (3m); ±4.46dB (10m)
Radiated Spurious Emissions (Above 1GHz)	±5.08dB (1GHz-6GHz);±5.14dB (above 6GHz)
Remark:	<p>The <math>U_{lab}</math> (lab Uncertainty) is less than <math>U_{cispr}</math> (CISPR Uncertainty), so the test results</p> <ul style="list-style-type: none"><li>– compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;</li><li>– non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.</li></ul>

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## 4.4 Test Location

All tests were performed at:

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198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District,  
Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.

## 4.5 Test Facility

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

- **NVLAP (Lab Code: 200611-0)**

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

- **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

- **CNAS (Lab Code: L0167)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

- **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

- **ISED (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

- **VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)**

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

- **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IEC60068-2-27 and Rules of procedure IEC60068-2-27, and the relevant IEC60068-2-27 CB-Scheme Operational documents.

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**4.6 Deviation from Standards**

None

**4.7 Abnormalities from Standard Conditions**

None

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## 5 Equipment List

Conducted Peak Output Power					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Power Meter (U2021XA_Ch2)	Agilent Technologies	U2021XA_Ch2	SEM009-02	2021-05-19	2022-05-18
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS-EMC	0.8M	EMC2136	2019-11-02	2021-11-01

Minimum 6dB Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS-EMC	0.8M	EMC2136	2019-11-02	2021-11-01

Power Spectrum Density					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS-EMC	0.8M	EMC2136	2019-11-02	2021-11-01

Conducted Band Edges Measurement					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS-EMC	0.8M	EMC2136	2019-11-02	2021-11-01

Conducted Spurious Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS-EMC	0.8M	EMC2136	2019-11-02	2021-11-01



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**Radiated Emissions which fall in the restricted bands**

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver(20Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2021-01-08	2022-01-07
Chamber cable(Above 1GHz)	Scoflex	KMKG-8.0m	EMC0545	2020-09-09	2022-09-08
Horn Antenna(1GHz-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2019-09-25	2022-09-24
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2021-01-08	2022-01-07
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2021-01-08	2022-01-07
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2020-12-20	2023-12-19
MXE EMI Receiver(10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2020-11-13	2021-11-12
EXA Signal Analyzer(10Hz-44GHz)	Keysight	N9010A	EMC2138	2021-09-16	2022-09-15
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
Notch Filter (5150-5880)	Mico-Tronics	BRM50716	EMC2168	2021-07-29	2022-07-28
Horn Antenna(14-40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2020-06-28	2023-06-27
Microwave Broadband Preamplifier (18-40GHz)	SCHWARZBECK	BBV 9721	EMC2172	2021-09-08	2022-09-07

**Radiated Spurious Emissions (Below 1GHz)**

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Chamber cable	HangTianXing	N/A	EMC0542	2020-09-09	2022-09-08
Trilog Broadband Antenna(25MHz-1GHz)-Lab	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168	SEM003-18	2019-02-22	2022-02-22
Amplifier(9kHz-1.3GHz)	HP	8447F	EMC2065	2021-05-19	2022-05-18
Active Loop Antenna-RED	ETS-Lindgren	6502	EMC2190	2019-12-27	2021-12-26
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2019-10-20	2022-10-19
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
EMI Test Receiver(1Hz-8GHz)	Rohde & Schwarz	ESW8	EMC2220	2021-05-26	2022-05-25

**Radiated Spurious Emissions (Above 1GHz)**

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date

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EMI Test Receiver(20Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2021-01-08	2022-01-07
Chamber cable(Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2020-09-09	2022-09-08
Horn Antenna(1GHz-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2019-09-25	2022-09-24
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2021-01-08	2022-01-07
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2021-01-08	2022-01-07
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2020-12-20	2023-12-19
MXE EMI Receiver(10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2020-11-13	2021-11-12
EXA Signal Analyzer(10Hz-44GHz)	Keysight	N9010A	EMC2138	2021-09-16	2022-09-15
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
Notch Filter (5150-5880)	Mico-Tronics	BRM50716	EMC2168	2021-07-29	2022-07-28
Horn Antenna(14-40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2020-06-28	2023-06-27
Microwave Broadband Preamplifier (18-40GHz)	SCHWARZBECK	BBV 9721	EMC2172	2021-09-08	2022-09-07

**General used equipment**

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2021-07-05	2022-07-05
DMM	Fluke	73	EMC0007	2021-07-05	2022-07-05

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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)

Limit:

Standard Requirement:

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

15.247(b) (4) requirement:

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

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 3dBi.

Antenna location: Refer to Internal photos.



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## 7 Radio Spectrum Matter Test Results

### 7.1 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)

Test Method: ANSI C63.10 (2013) Section 11.9.1.3

Limit:

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

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

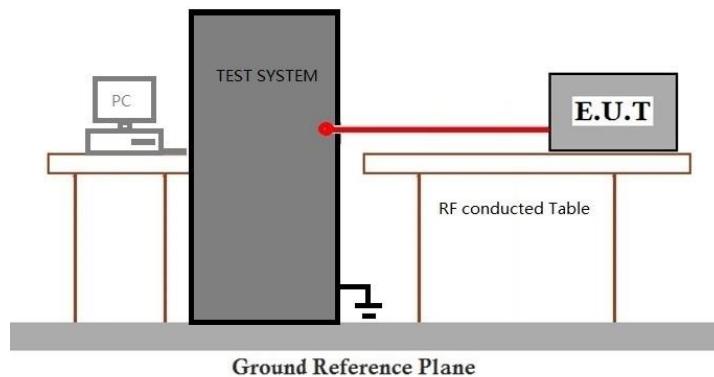
Operating Environment:

Temperature: 25.1 °C Humidity: 46.2 % RH Atmospheric Pressure: 1008 mbar

#### 7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_ Keep the EUT in continuously transmitting mode.

#### 7.1.3 Test Setup Diagram



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**7.1.4 Measurement Procedure and Data**

cable loss=0.9dB

Please Refer to Appendix for Details



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## 7.2 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

### 7.2.1 E.U.T. Operation

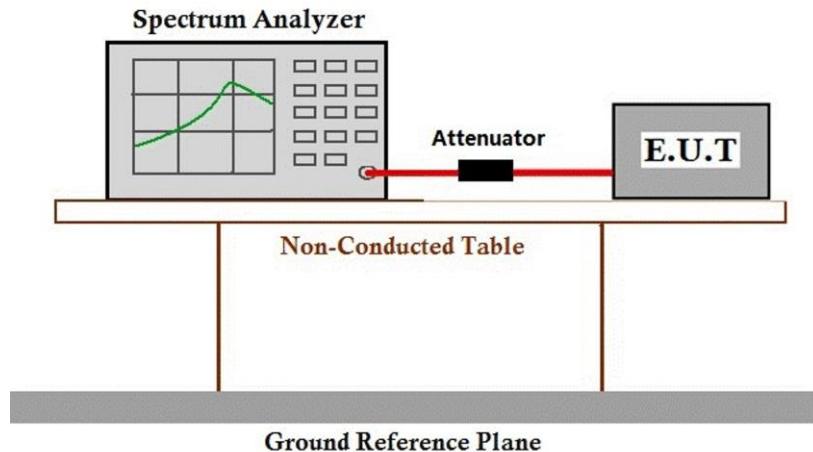
Operating Environment:

Temperature: 25.1 °C Humidity: 46.2 % RH Atmospheric Pressure: 1008 mbar

### 7.2.2 Test Mode Description

Pre-scan / Mode		Description
Final test	Code	
Final test	00	TX mode_ Keep the EUT in continuously transmitting mode.

### 7.2.3 Test Setup Diagram



### 7.2.4 Measurement Procedure and Data

cable loss=0.9dB

Please Refer to Appendix for Details

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### 7.3 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

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

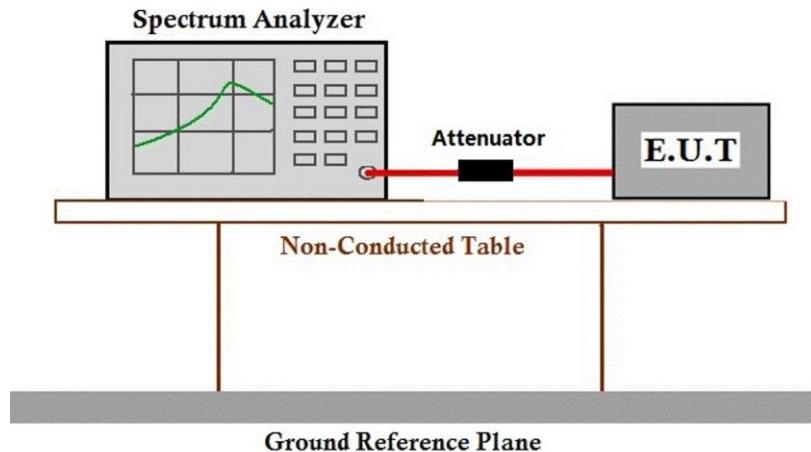
Operating Environment:

Temperature: 25.1 °C Humidity: 46.2 % RH Atmospheric Pressure: 1008 mbar

#### 7.3.2 Test Mode Description

Pre-scan / Mode		Description
Final test	Code	
Final test	00	TX mode_ Keep the EUT in continuously transmitting mode.

#### 7.3.3 Test Setup Diagram



#### 7.3.4 Measurement Procedure and Data

cable loss=0.9dB

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## 7.4 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)).

### 7.4.1 E.U.T. Operation

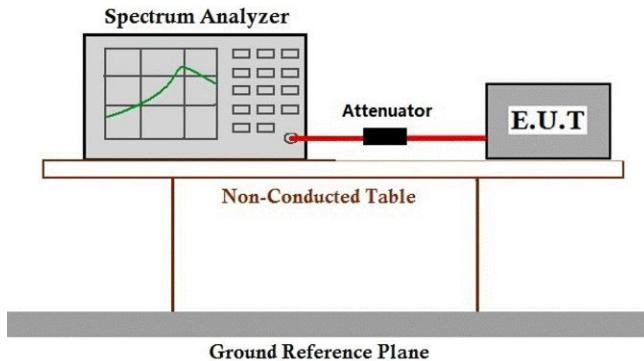
Operating Environment:

Temperature: 25.1 °C Humidity: 46.2 % RH Atmospheric Pressure: 1008 mbar

### 7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_ Keep the EUT in continuously transmitting mode.

### 7.4.3 Test Setup Diagram



### 7.4.4 Measurement Procedure and Data

cable loss=0.9dB

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## 7.5 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)).

### 7.5.1 E.U.T. Operation

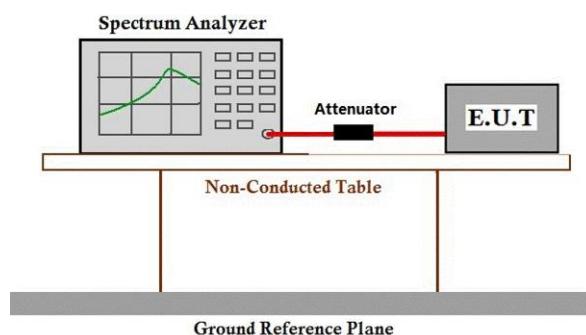
Operating Environment:

Temperature: 25.1 °C Humidity: 46.2 % RH Atmospheric Pressure: 1008 mbar

### 7.5.2 Test Mode Description

Pre-scan / Final test	Mode / Code	Description
Final test	00	TX mode_ Keep the EUT in continuously transmitting mode.

### 7.5.3 Test Setup Diagram



### 7.5.4 Measurement Procedure and Data

cable loss=0.9dB

Please Refer to Appendix for Details

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**7.6 Radiated Emissions which fall in the restricted bands**

Test Requirement 47 CFR Part 15, Subpart C 15.205 &amp; 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.

**7.6.1 E.U.T. Operation**

Operating Environment:

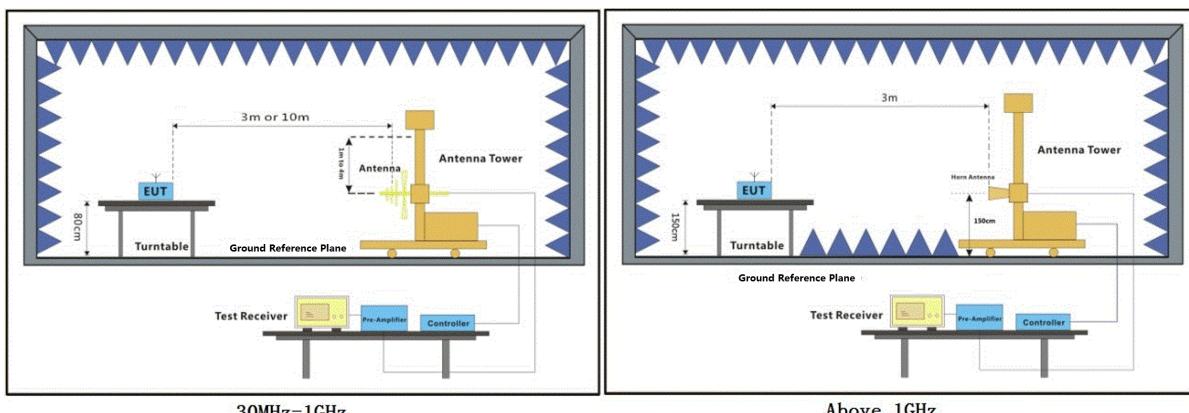
Temperature: 25.3 °C

Humidity: 46.3 % RH

Atmospheric Pressure: 1008 mbar

**7.6.2 Test Mode Description**

Pre-scan / Final test	Mode / Code	Description
Final test	00	TX mode_ Keep the EUT in continuously transmitting mode.

**7.6.3 Test Setup Diagram**

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**7.6.4 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 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.

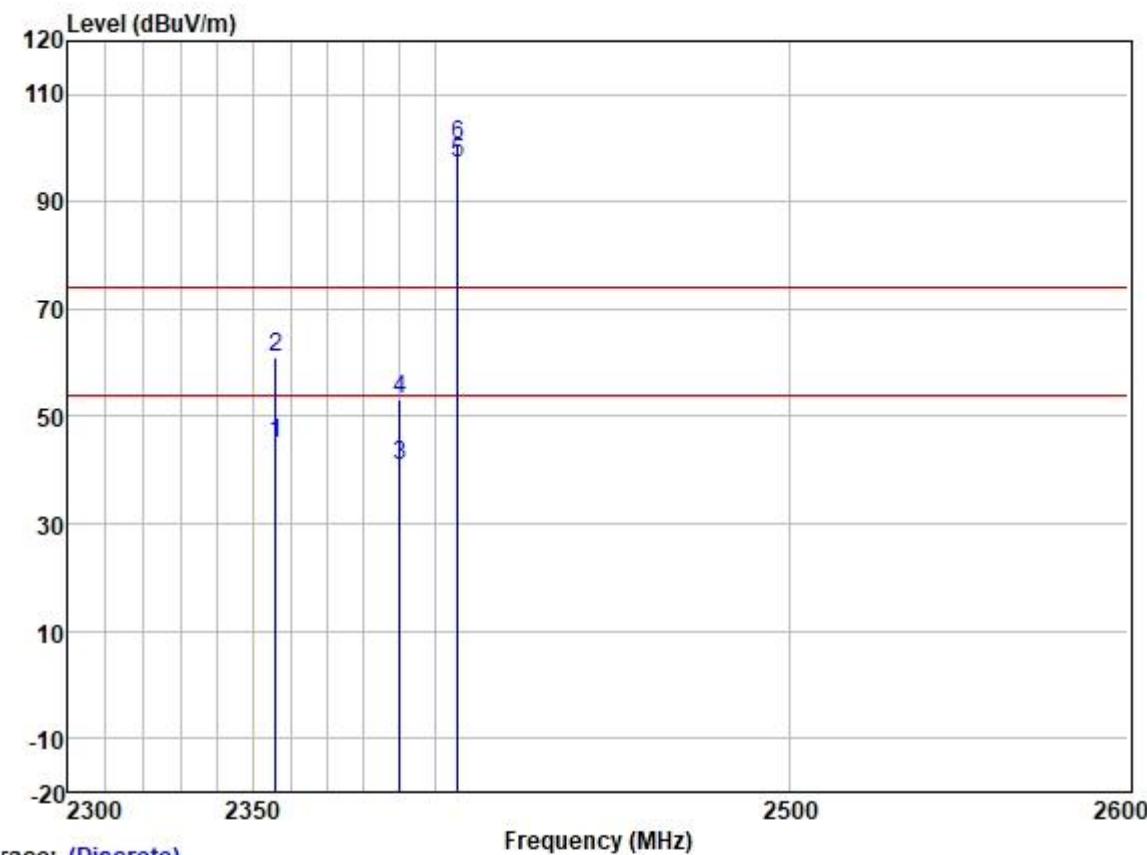
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Test Mode: 00; Polarity: Horizontal; Channel: Low



Freq	ReadAntenna		Cable		Preamp	Limit	Over	Over	Pol/Phase	Remark
	Level	Factor	Loss	Factor						
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB		
1 2355.959	52.06	27.25	3.40	37.61	45.10	54.00	-8.90	HORIZONTAL	Average	
2 2355.959	68.01	27.25	3.40	37.61	61.05	74.00	-12.95	HORIZONTAL	Peak	
3 2390.000	47.55	27.33	3.48	37.59	40.77	54.00	-13.23	HORIZONTAL	Average	
4 2390.000	60.09	27.33	3.48	37.59	53.31	74.00	-20.69	HORIZONTAL	Peak	
5 * 2406.000	103.93	27.36	3.48	37.59	97.18	54.00	43.18	HORIZONTAL	Average	
6 * 2406.000	107.47	27.36	3.48	37.59	100.72	74.00	26.72	HORIZONTAL	Peak	

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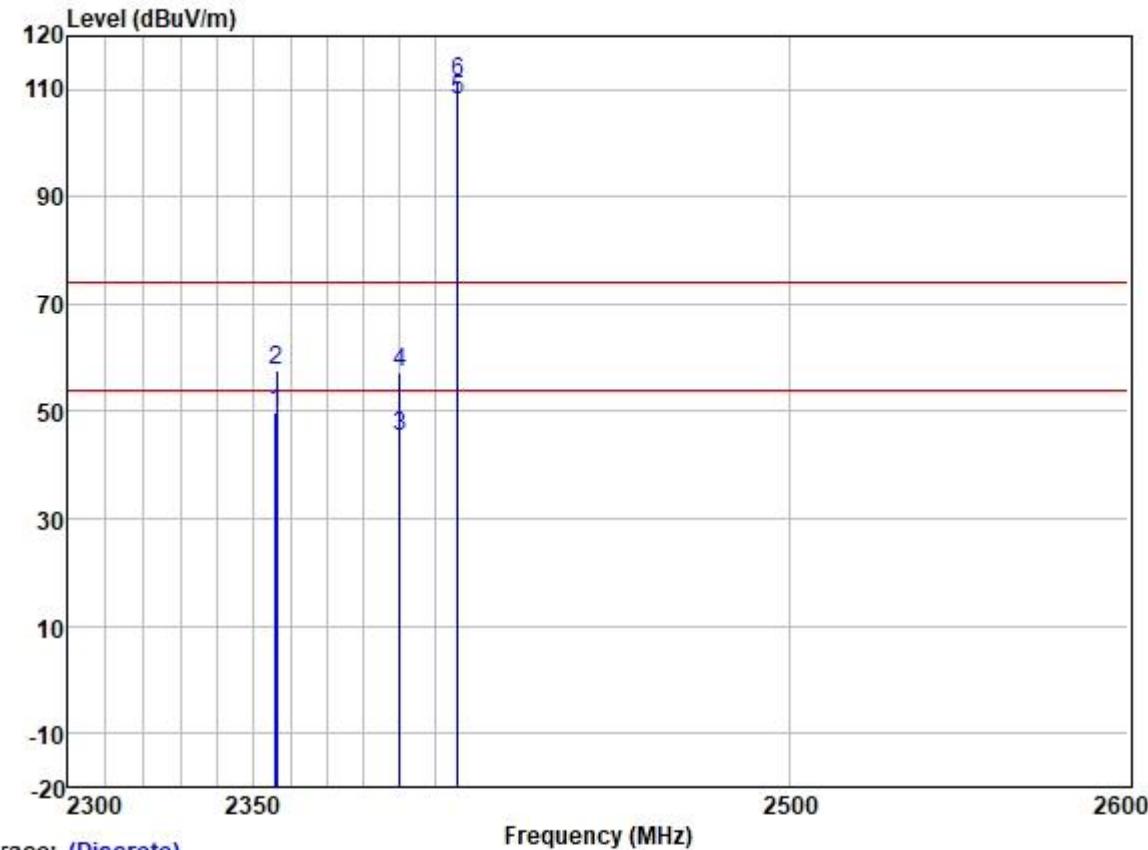
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Test Mode: 00; Polarity: Vertical; Channel: Low

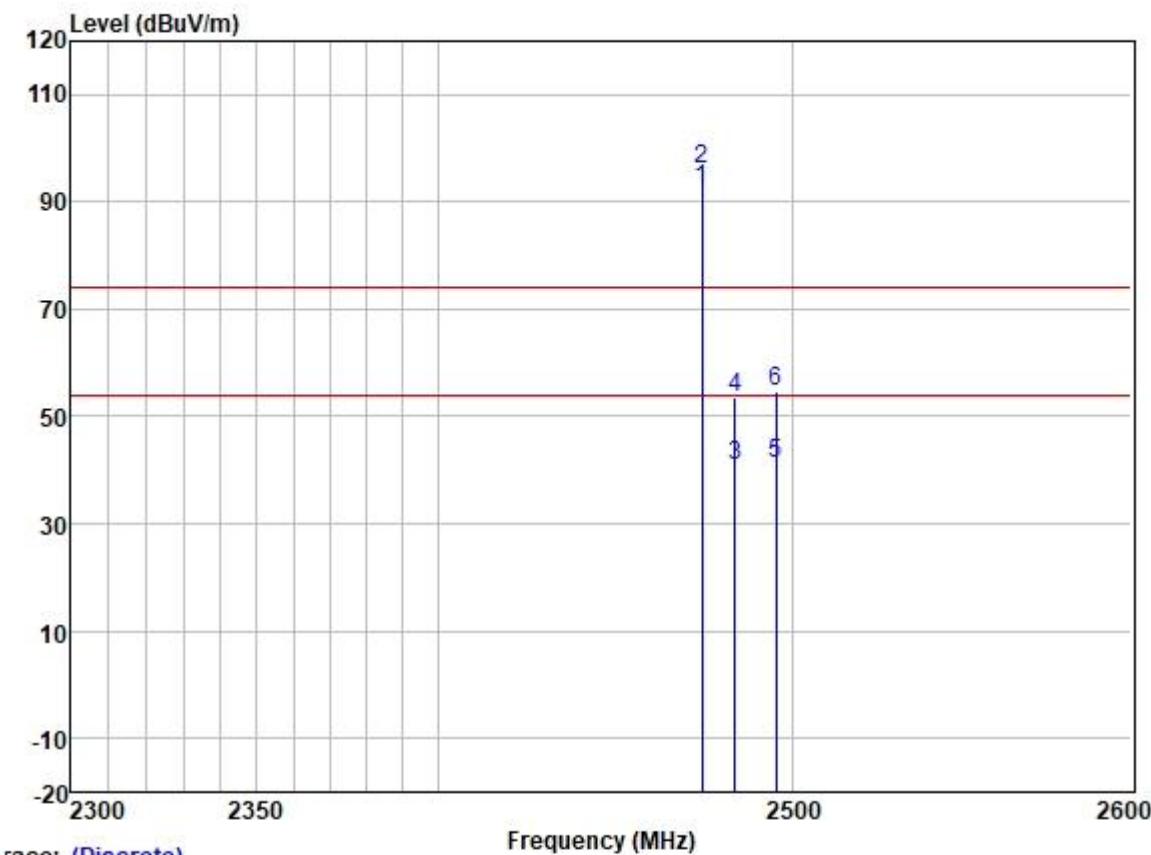


Freq	ReadAntenna		Cable		Preamp		Limit	Over		Remark
	Level	Factor	Loss	Factor	Level	Line		Limit	Pol/Phase	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2355.959	56.95	27.25	3.40	37.61	49.99	54.00	-4.01	VERTICAL	Average
2	2356.198	64.51	27.27	3.42	37.61	57.59	74.00	-16.41	VERTICAL	Peak
3	2390.000	52.13	27.33	3.48	37.59	45.35	54.00	-8.65	VERTICAL	Average
4	2390.000	64.14	27.33	3.48	37.59	57.36	74.00	-16.64	VERTICAL	Peak
5 *	2406.000	114.88	27.36	3.48	37.59	108.13	54.00	54.13	VERTICAL	Average
6 *	2406.000	118.24	27.36	3.48	37.59	111.49	74.00	37.49	VERTICAL	Peak

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



Race: (Discrete)

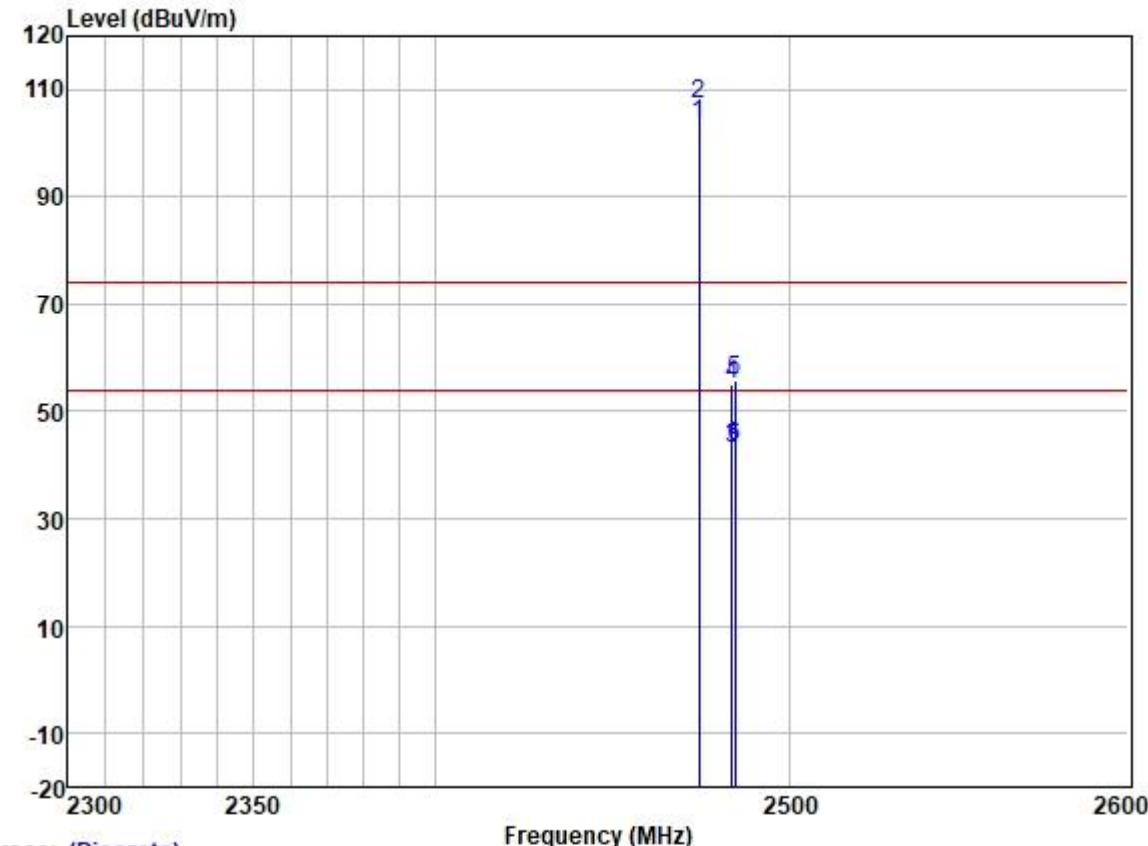
Freq	ReadAntenna	Cable	Preamp	Limit	Over	Line	Limit	Over	Pol/Phase	Remark
	Freq	Level	Factor							
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB	dB	dB
1 *	2474.000	99.10	27.46	3.55	37.57	92.54	54.00	38.54	HORIZONTAL	Average
2 *	2474.000	102.65	27.46	3.55	37.57	96.09	74.00	22.09	HORIZONTAL	Peak
3	2483.500	47.42	27.48	3.53	37.57	40.86	54.00	-13.14	HORIZONTAL	Average
4	2483.500	60.21	27.48	3.53	37.57	53.65	74.00	-20.35	HORIZONTAL	Peak
5	2495.156	47.71	27.49	3.47	37.56	41.11	54.00	-12.89	HORIZONTAL	Average
6	2495.156	61.09	27.49	3.47	37.56	54.49	74.00	-19.51	HORIZONTAL	Peak

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



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**7.7 Radiated Spurious Emissions (Below 1GHz)**

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

Test Method: ANSI C63.10 (2013) Section 6.4,6.5,6.6

Measurement 3m

Distance:

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:

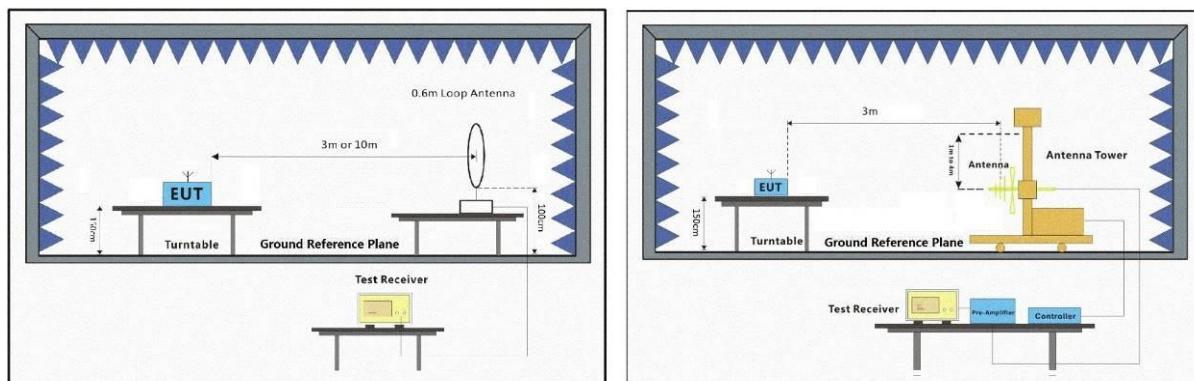
Temperature: 25.3 °C

Humidity: 46.3 % RH

Atmospheric Pressure: 1008 mbar

**7.7.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_ Keep the EUT in continuously transmitting mode.

**7.7.3 Test Setup Diagram**

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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 meter semi-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, quasi-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) Through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.

2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

3) Scan from 9kHz to 1 GHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

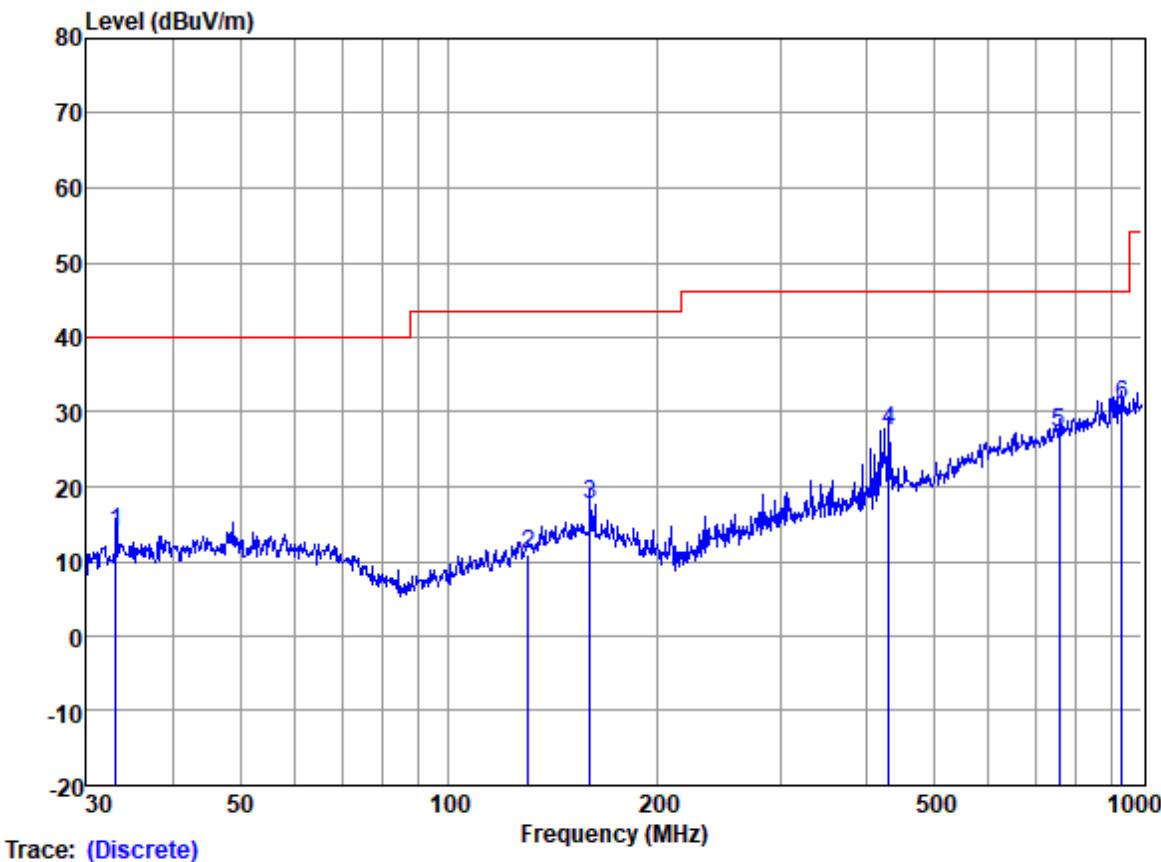
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Test Mode: 00 Polarity: Horizontal;



Site : SGS  
Job :  
Model :  
Power :  
Test Mode :

Freq	Read	Antenna	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		
1 33.09	27.24	12.76	1.05	27.19	13.86	40.00	-26.14	HORIZONTAL	QP
2 129.92	23.85	12.10	1.96	26.99	10.92	43.50	-32.58	HORIZONTAL	QP
3 159.78	28.46	13.60	2.33	26.80	17.59	43.50	-25.91	HORIZONTAL	QP
4 431.03	34.14	16.75	4.09	27.50	27.48	46.00	-18.52	HORIZONTAL	QP
5 758.04	27.00	22.20	6.01	28.08	27.13	46.00	-18.87	HORIZONTAL	QP
6 935.55	27.97	23.80	7.06	27.78	31.05	46.00	-14.95	HORIZONTAL	QP

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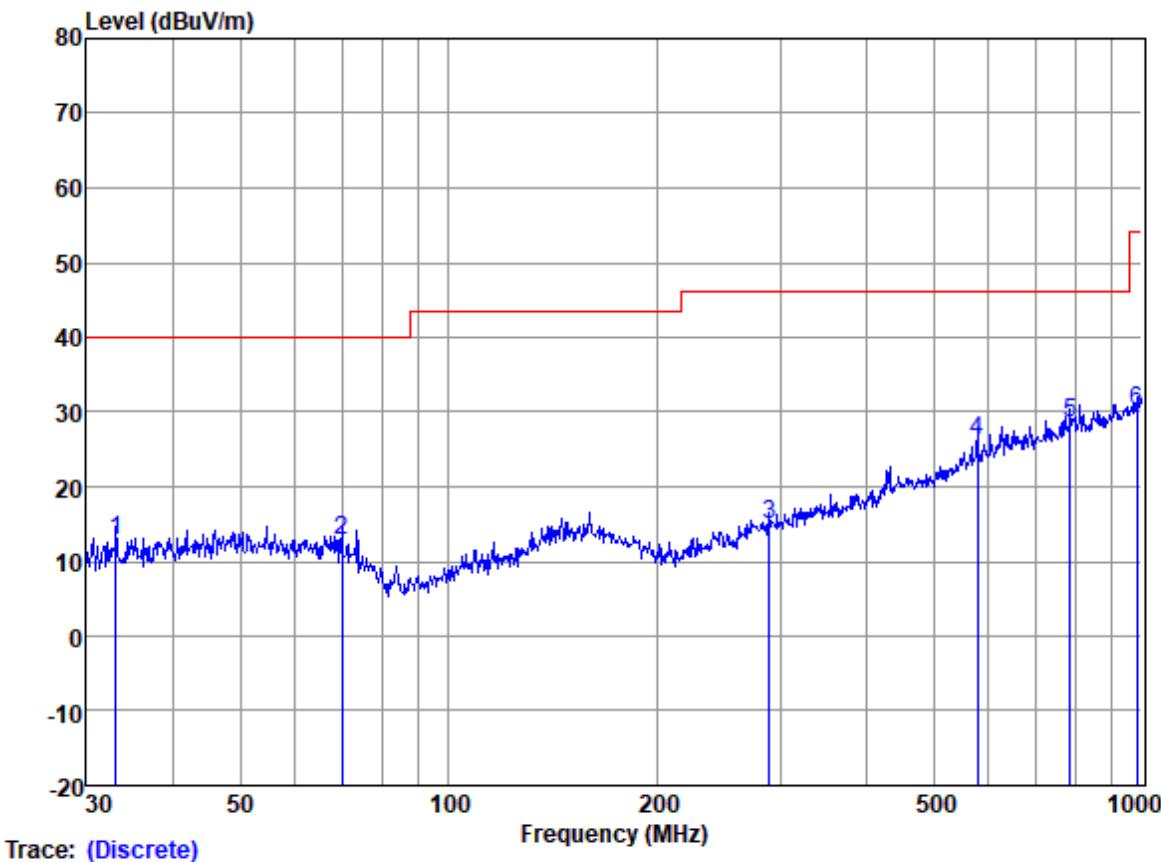
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Test Mode: 00 Polarity: Vertical;



Site : SGS  
 Job :  
 Model :  
 Power :  
 Test Mode :

Freq	Read	Antenna	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		
1 33.09	26.16	12.76	1.05	27.19	12.78	40.00	-27.22	VERTICAL	QP
2 70.09	26.69	11.90	1.41	27.13	12.87	40.00	-27.13	VERTICAL	QP
3 290.02	24.87	13.40	3.12	26.56	14.83	46.00	-31.17	VERTICAL	QP
4 578.67	30.19	19.15	5.02	28.18	26.18	46.00	-19.82	VERTICAL	QP
5 787.85	28.10	22.45	6.11	28.04	28.62	46.00	-17.38	VERTICAL	QP
6 982.62	26.33	24.13	7.31	27.68	30.09	54.00	-23.91	VERTICAL	QP

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**7.8 Radiated Spurious Emissions (Above 1GHz)**

Test Requirement 47 CFR Part 15, Subpart C 15.205 &amp; 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
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:

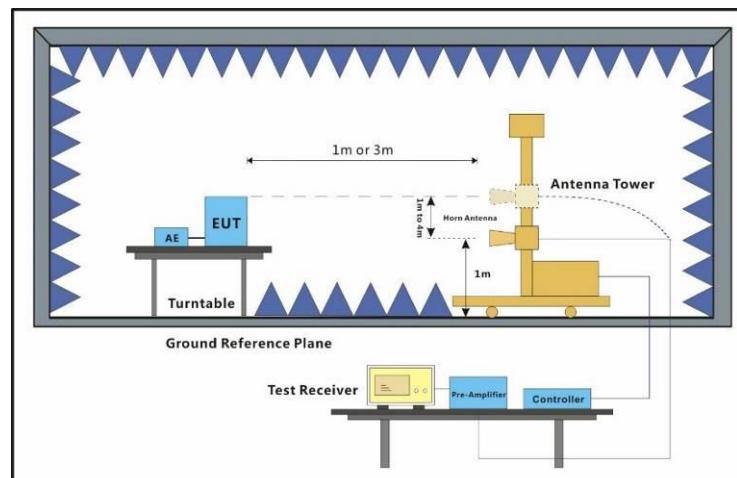
Temperature: 25.3 °C

Humidity: 46.3 % RH

Atmospheric Pressure: 1008 mbar

**7.8.2 Test Mode Description**

Pre-scan / Final test	Mode / Code	Description
Final test	00	TX mode_ Keep the EUT in continuously transmitting mode.

**7.8.3 Test Setup Diagram**

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**7.8.4 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 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, quasi-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) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier 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) 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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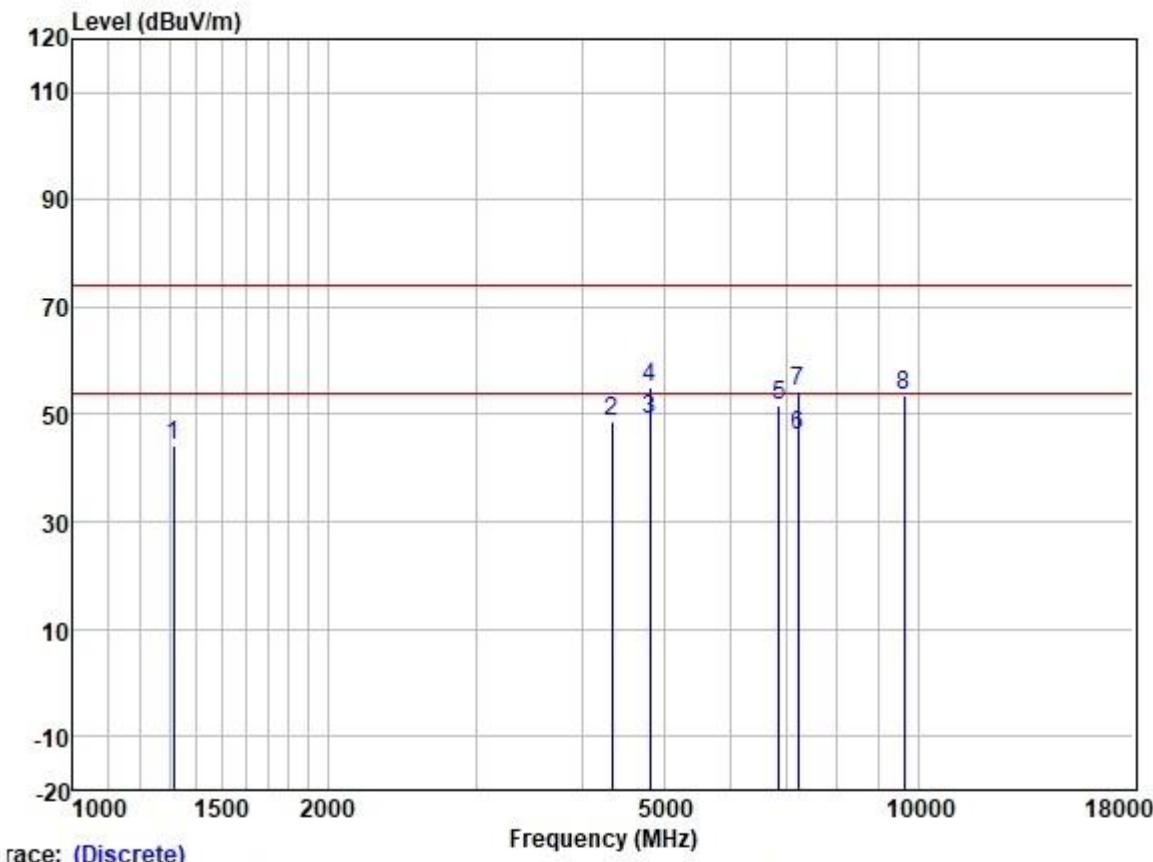


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Test Mode: 00; Polarity: Horizontal; Channel: Low



Race: (Discrete)	ReadAntenna		Cable		Preamp	Limit	Over	Over	Pol/Phase	Remark
	Freq	Level	Factor	Loss						
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1315.985	54.71	25.24	2.60	38.29	44.26	74.00	-29.74	HORIZONTAL	Peak
2	4341.886	50.41	30.57	4.67	36.81	48.84	74.00	-25.16	HORIZONTAL	Peak
3	4810.000	48.96	31.42	5.40	36.83	48.95	54.00	-5.05	HORIZONTAL	Average
4	4810.000	54.97	31.42	5.40	36.83	54.96	74.00	-19.04	HORIZONTAL	Peak
5	6855.063	48.38	34.78	5.82	37.15	51.83	74.00	-22.17	HORIZONTAL	Peak
6	7218.000	41.94	35.62	6.01	37.39	46.18	54.00	-7.82	HORIZONTAL	Average
7	7218.000	49.88	35.62	6.01	37.39	54.12	74.00	-19.88	HORIZONTAL	Peak
8	9624.000	45.44	38.37	7.07	37.42	53.46	74.00	-20.54	HORIZONTAL	Peak

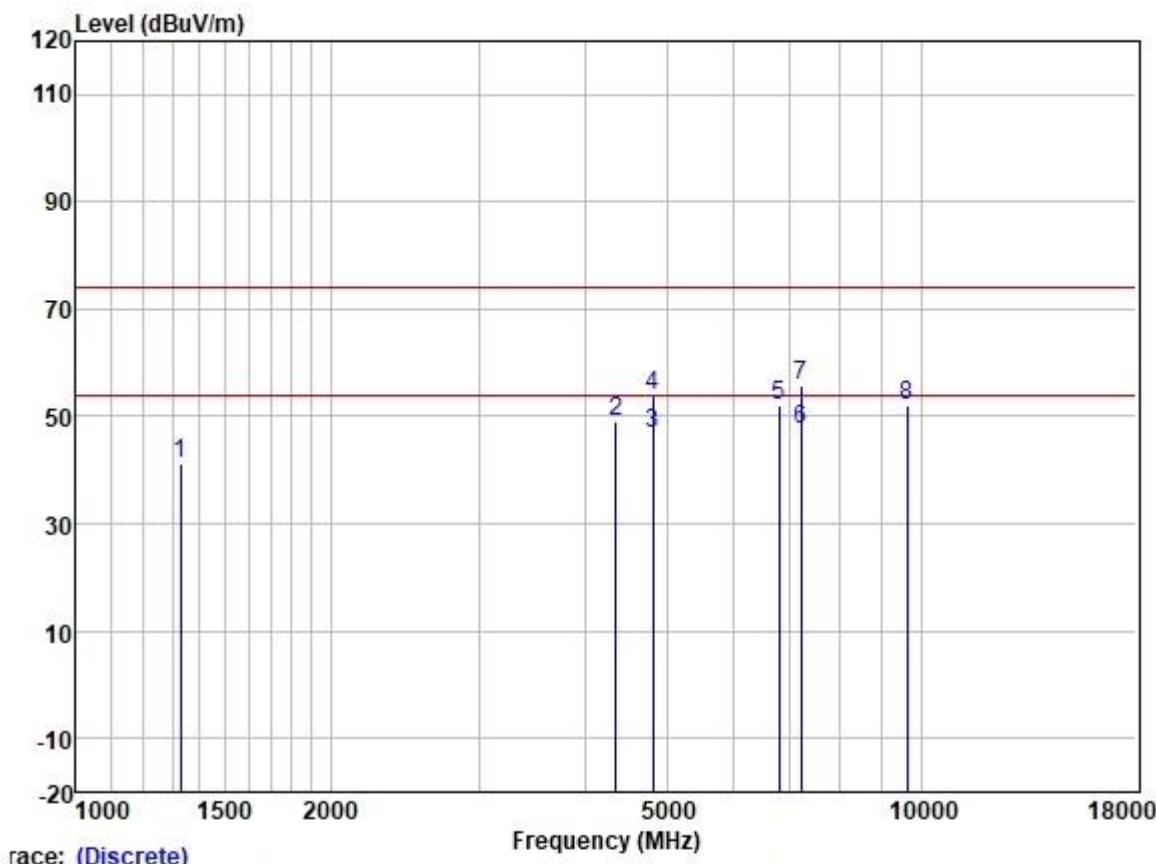
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Test Mode: 00; Polarity: Vertical; Channel: Low



Race: (Discrete)	ReadAntenna		Cable		Preamp	Limit	Over	Over	Pol/Phase	Remark
	Freq	Level	Factor	Loss						
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1331.288	51.55	25.28	2.60	38.29	41.14	74.00	-32.86	VERTICAL	Peak
2	4354.454	50.54	30.59	4.68	36.81	49.00	74.00	-25.00	VERTICAL	Peak
3	4812.000	46.92	31.42	5.40	36.83	46.91	54.00	-7.09	VERTICAL	Average
4	4812.000	53.85	31.42	5.40	36.83	53.84	74.00	-20.16	VERTICAL	Peak
5	6795.879	48.66	34.66	5.82	37.12	52.02	74.00	-21.98	VERTICAL	Peak
6	7218.000	43.27	35.62	6.01	37.39	47.51	54.00	-6.49	VERTICAL	Average
7	7218.000	51.68	35.62	6.01	37.39	55.92	74.00	-18.08	VERTICAL	Peak
8	9624.000	44.00	38.37	7.07	37.42	52.02	74.00	-21.98	VERTICAL	Peak

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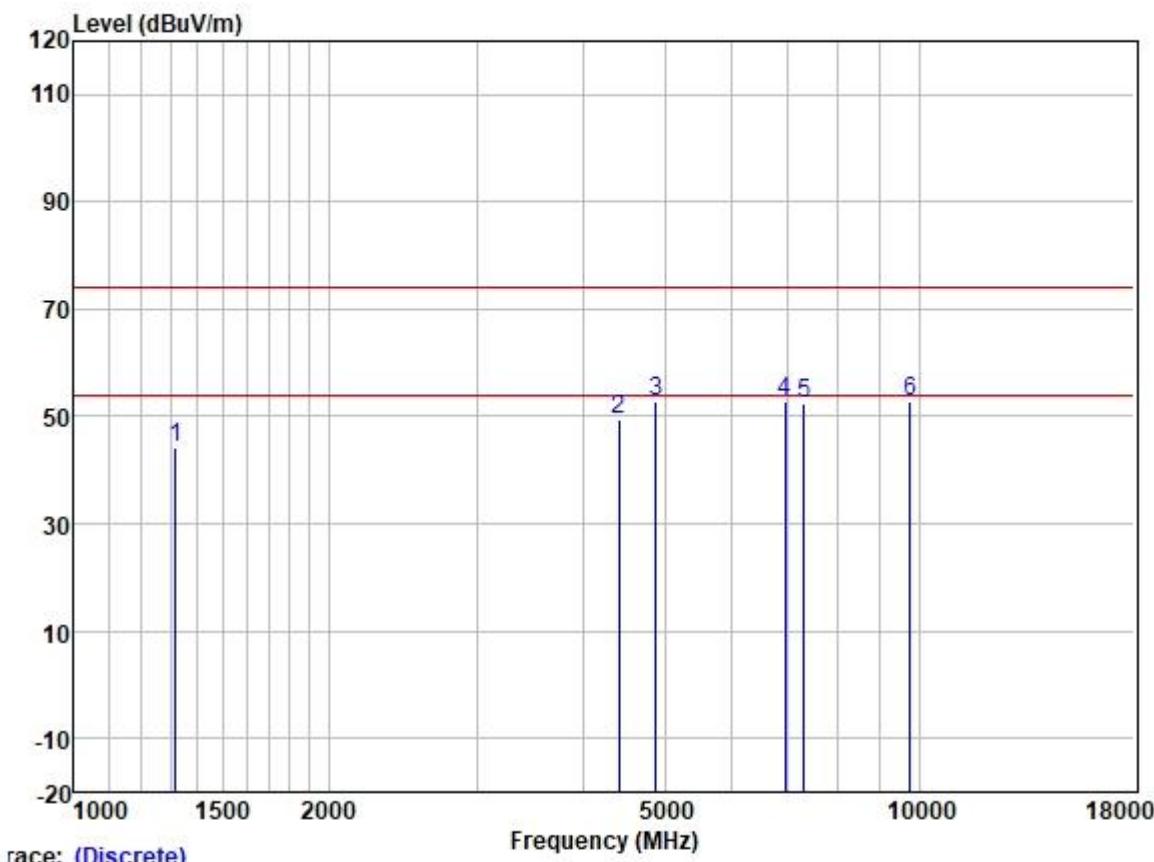


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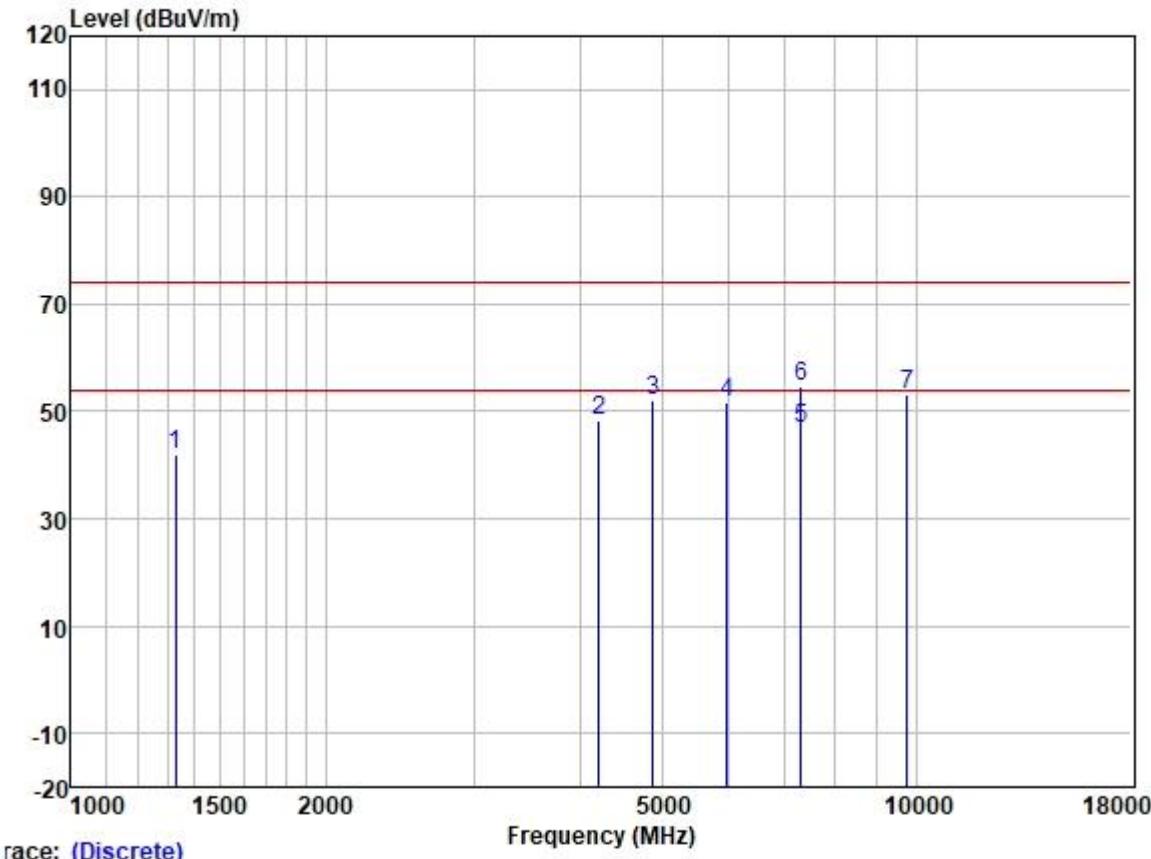
Test Mode: 00; Polarity: Horizontal; Channel: middle



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



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Limit	Over	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss						
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1331.288	52.31	25.28	2.60	38.29	41.90	74.00	-32.10	VERTICAL	Peak
2	4218.186	50.18	30.22	4.60	36.81	48.19	74.00	-25.81	VERTICAL	Peak
3	4876.000	51.94	31.54	5.50	36.84	52.14	74.00	-21.86	VERTICAL	Peak
4	5967.033	50.26	32.37	6.10	36.90	51.83	74.00	-22.17	VERTICAL	Peak
5	7314.000	42.14	35.93	6.11	37.43	46.75	54.00	-7.25	VERTICAL	Average
6	7314.000	49.98	35.93	6.11	37.43	54.59	74.00	-19.41	VERTICAL	Peak
7	9752.000	45.07	38.50	7.02	37.41	53.18	74.00	-20.82	VERTICAL	Peak

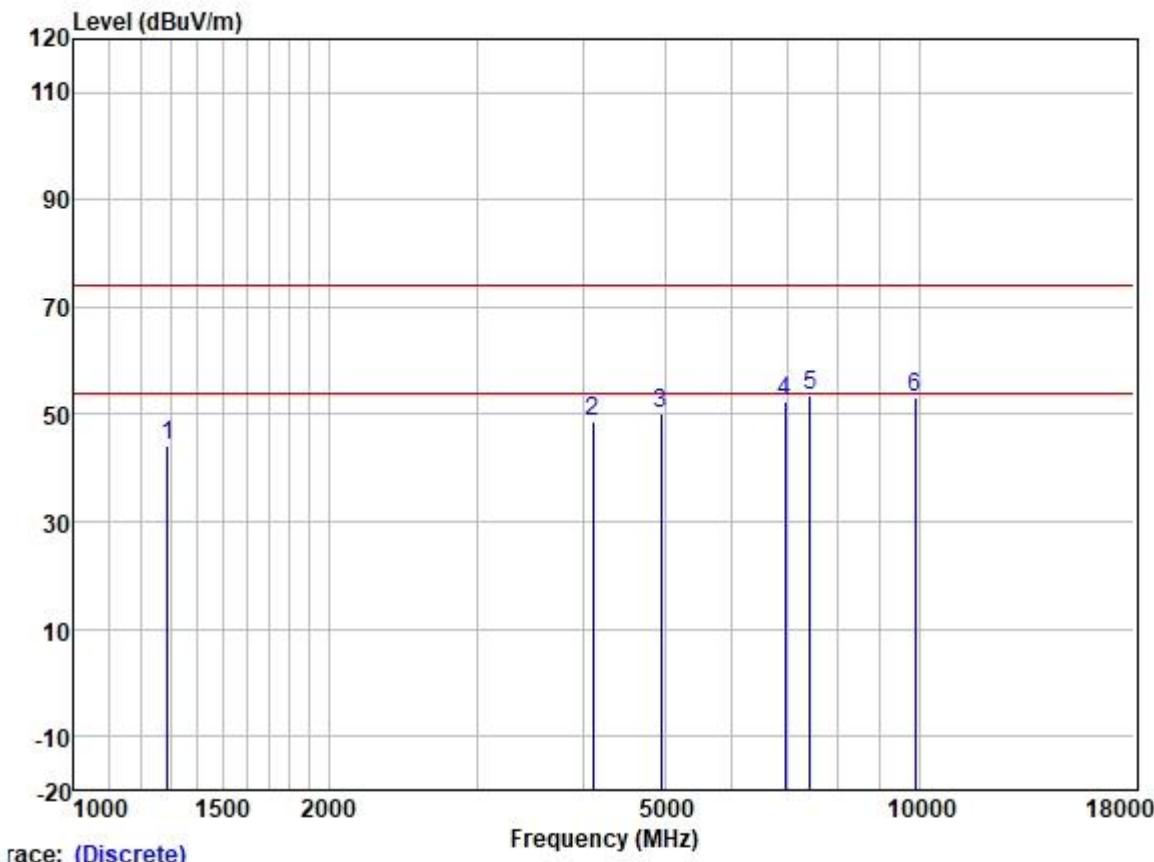
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Test Mode: 00; Polarity: Horizontal; Channel: High



Trace: (Discrete)	ReadAntenna		Cable		Preamp		Limit	Over	Over	Pol/Phase	Remark
	Freq	Level	Factor	Loss	Factor	Level					
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1	1289.627	54.76	25.17	2.55	38.31	44.17	74.00	-29.83	HORIZONTAL	Peak	
2	4109.872	51.09	29.96	4.60	36.80	48.85	74.00	-25.15	HORIZONTAL	Peak	
3	4948.000	49.66	31.64	5.62	36.84	50.08	74.00	-23.92	HORIZONTAL	Peak	
4	6934.778	49.02	34.92	5.81	37.19	52.56	74.00	-21.44	HORIZONTAL	Peak	
5	7422.000	48.77	36.22	6.20	37.47	53.72	74.00	-20.28	HORIZONTAL	Peak	
6	9896.000	45.03	38.63	6.97	37.41	53.22	74.00	-20.78	HORIZONTAL	Peak	

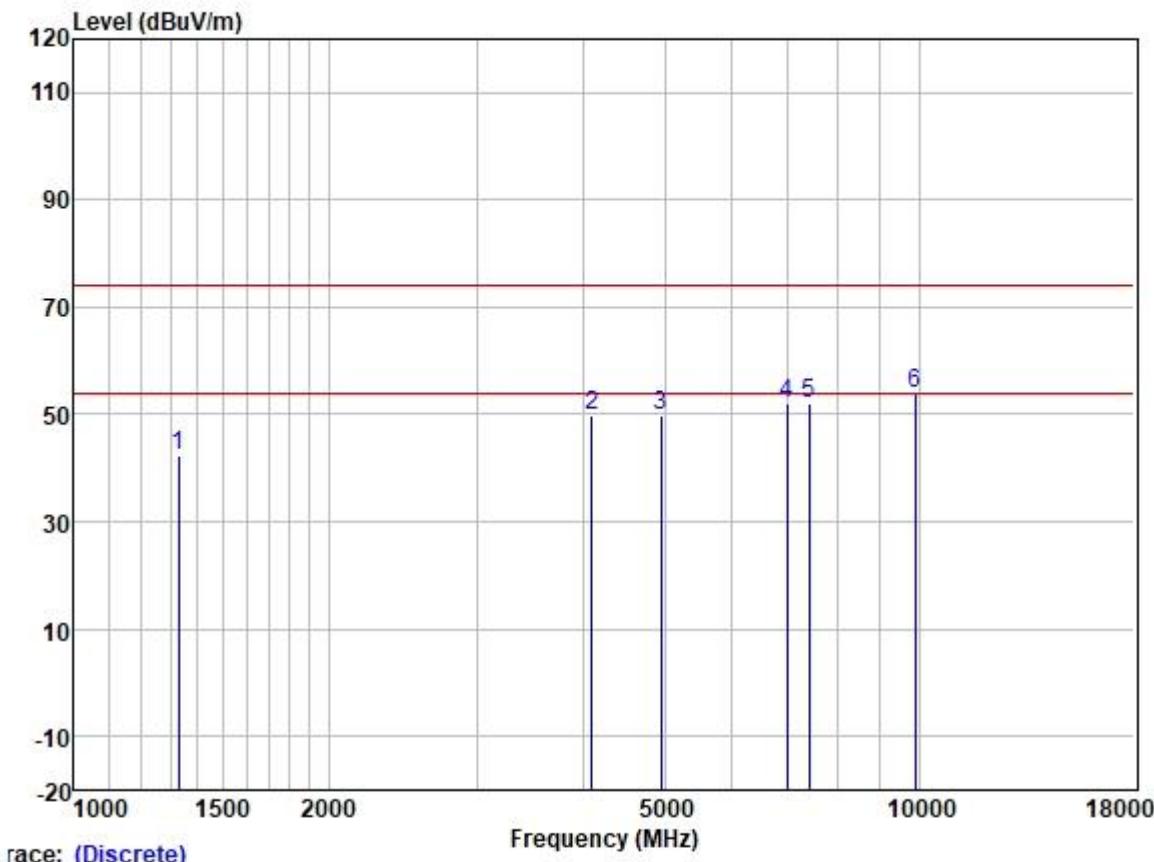
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Test Mode: 00; Polarity: Vertical; Channel: High



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## 8 Test Setup Photo

Refer to Appendix - Test Setup Photo for GZCR2109021158AT

## 9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for GZCR2109021158AT

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## 10 Appendix

Ant1

### 1. Duty Cycle

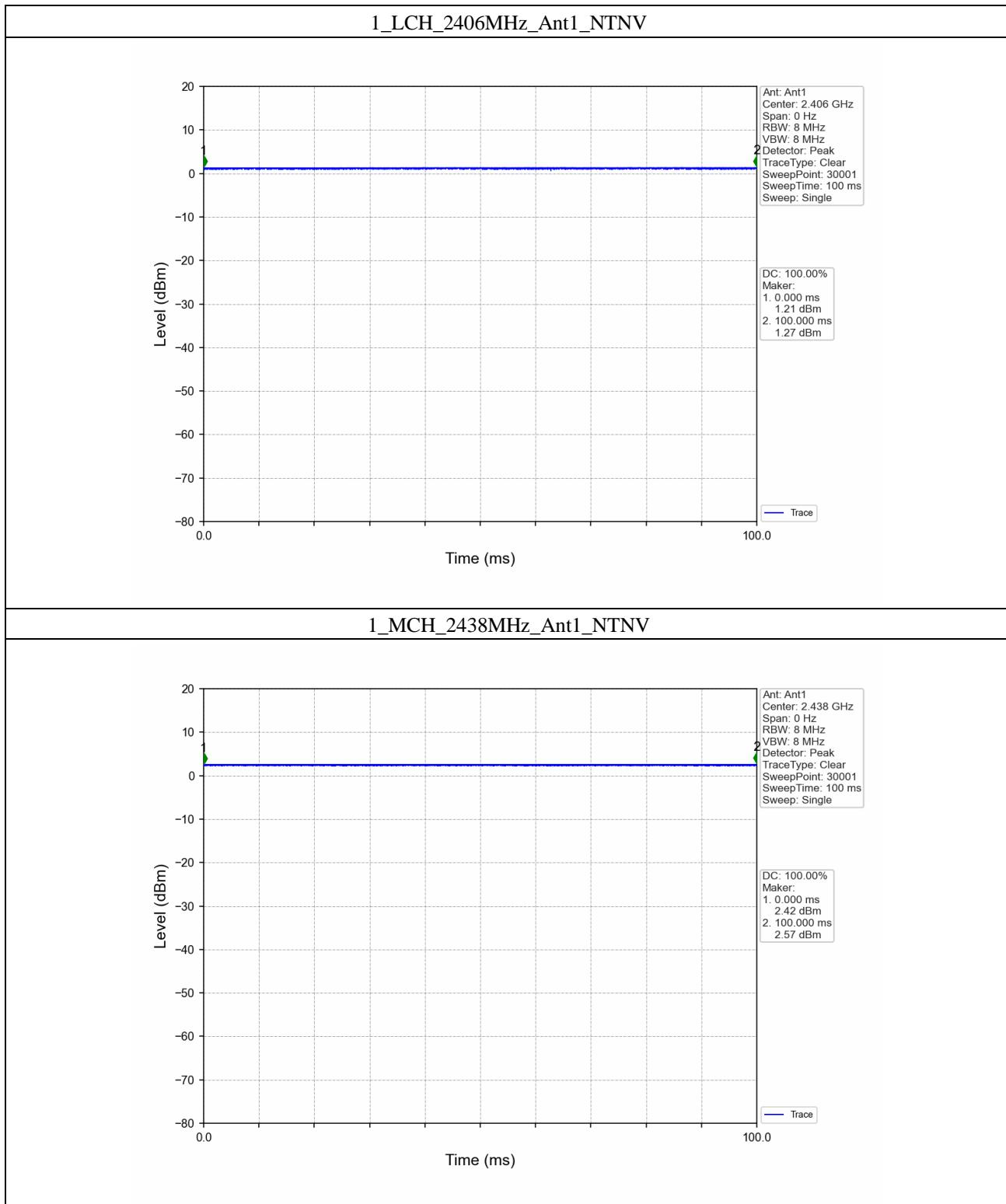
#### 1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1	SISO	2406	100.000	100.000	100.00	0.00	0.00
		2438	100.000	100.000	100.00	0.00	0.00
		2474	100.000	100.000	100.00	0.00	0.00



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**1.1.2 Test Graph**

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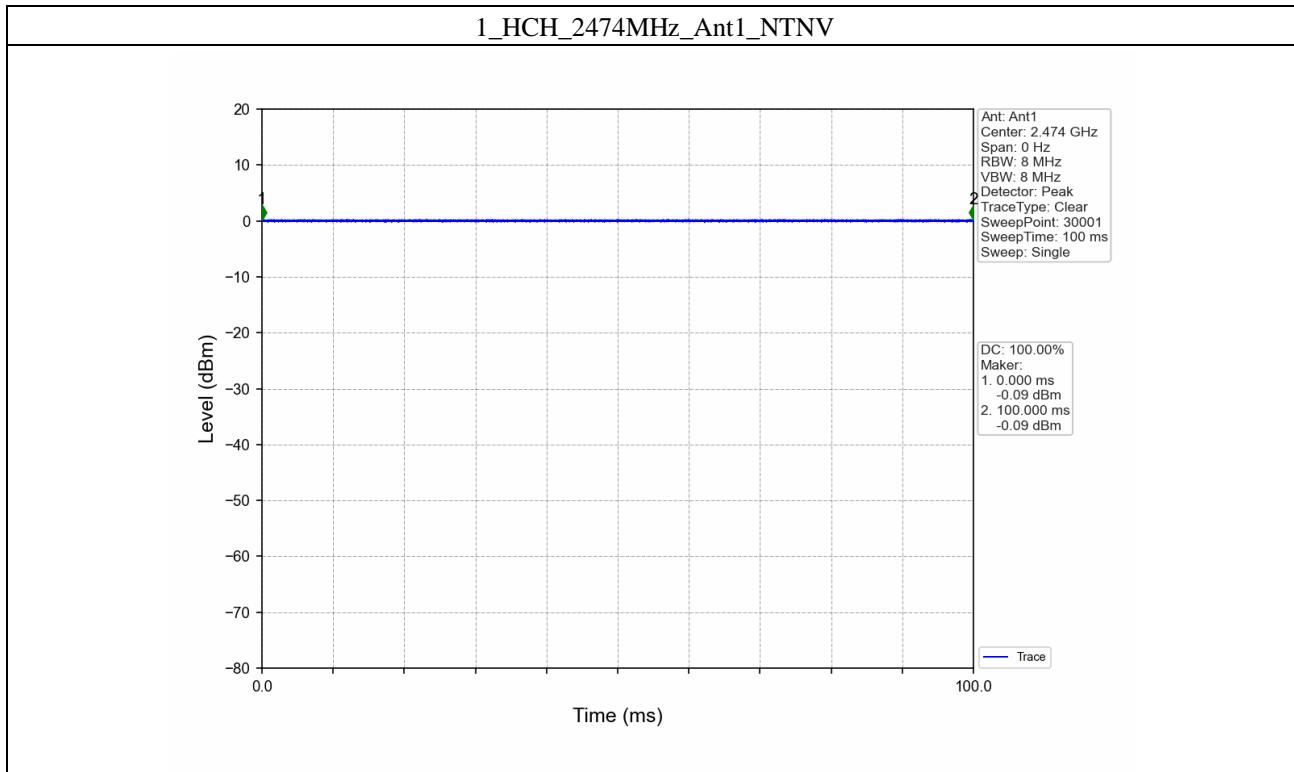
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## 2. Bandwidth

### 2.1 OBW

#### 2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Verdict
				Result	
1	SISO	2406	1	3.853	Pass
		2438	1	3.841	Pass
		2474	1	3.803	Pass

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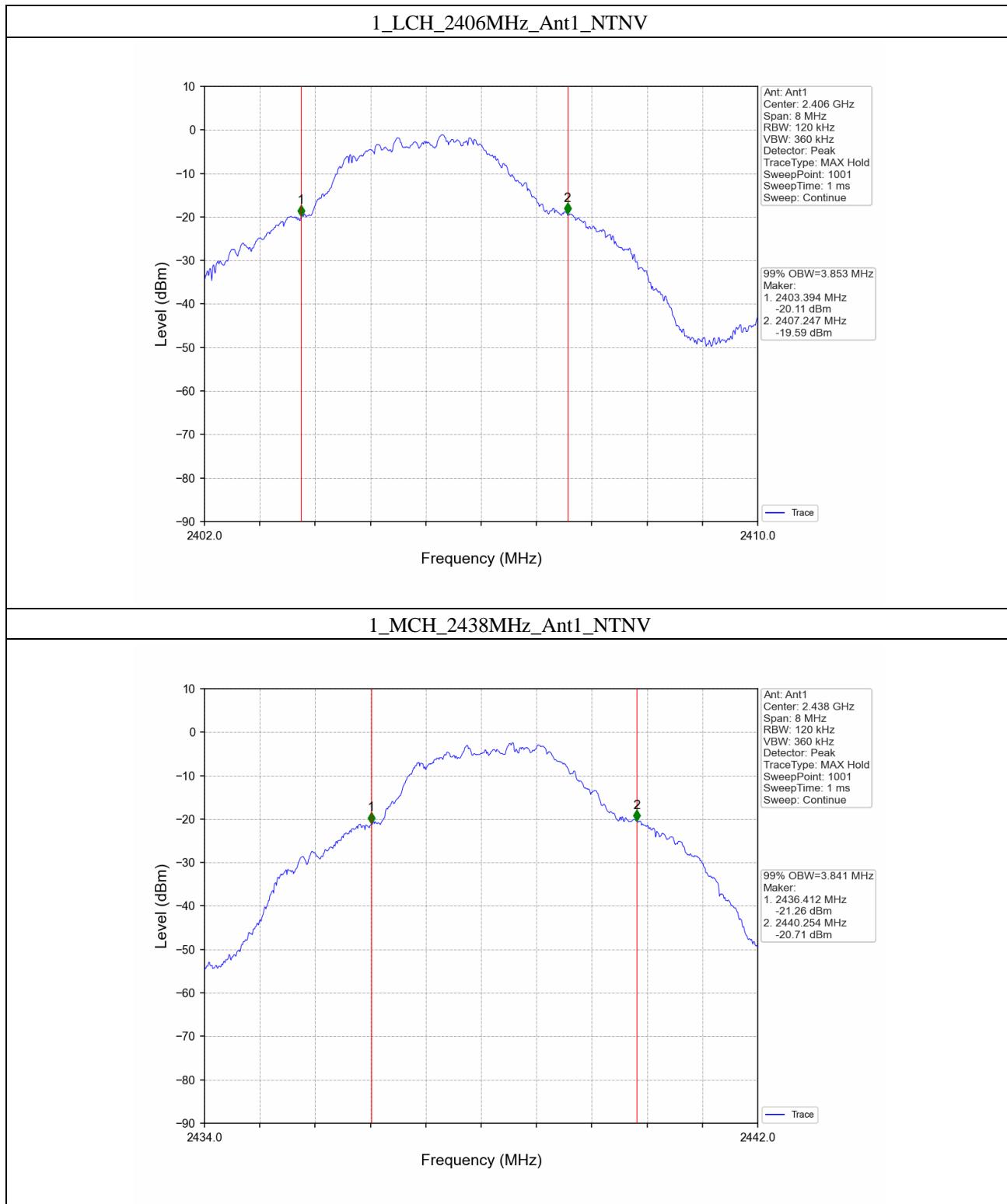
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**2.1.2 Test Graph**

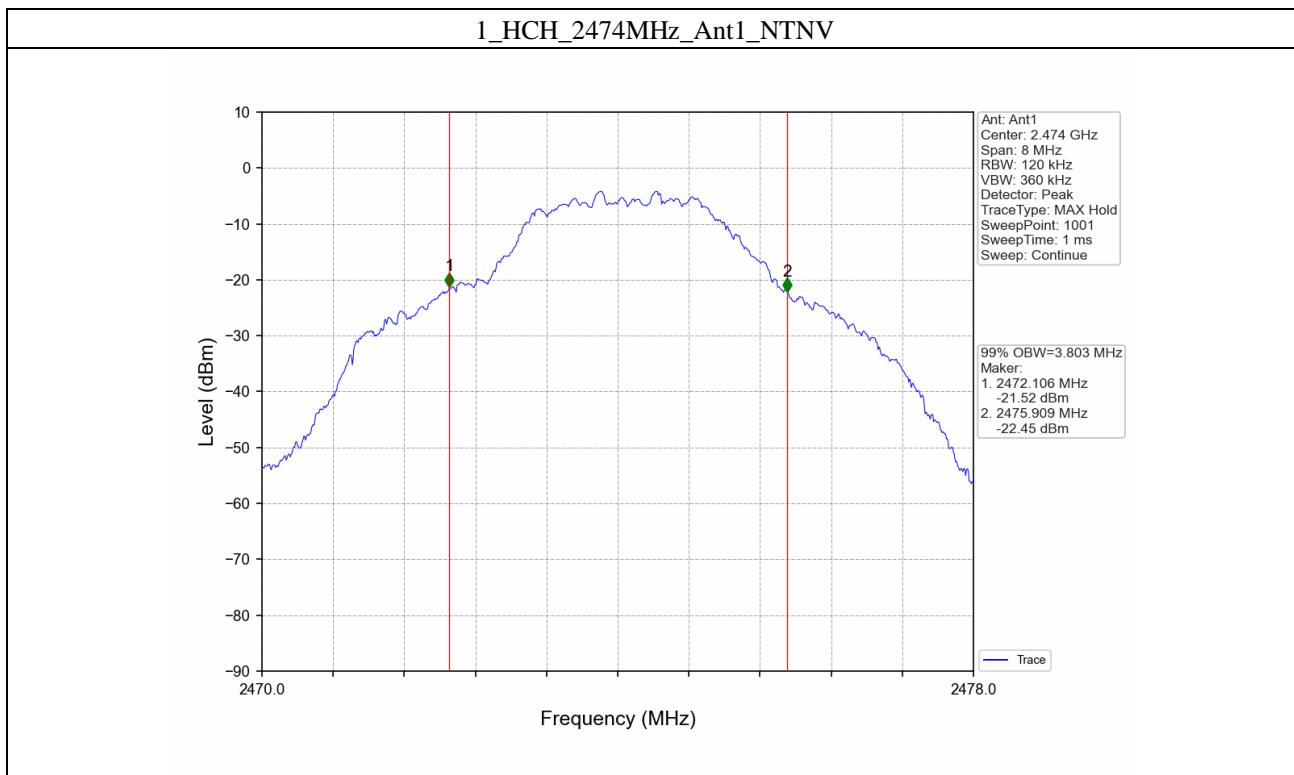
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**2.2 6dB BW****2.2.1 Test Result**

Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1	SISO	2406	1	2.219	>=0.5	Pass
		2438	1	2.216	>=0.5	Pass
		2474	1	2.203	>=0.5	Pass

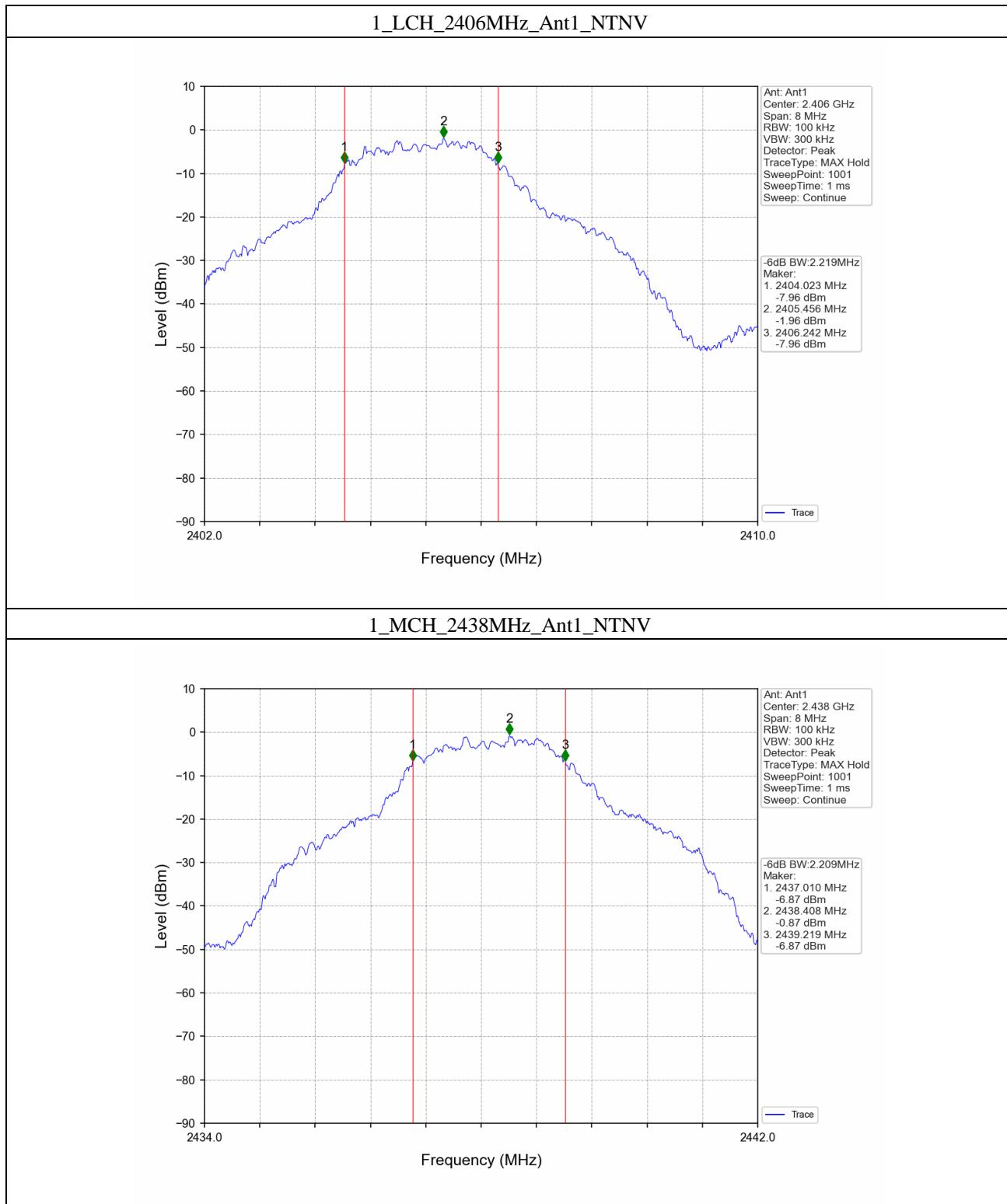
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## 2.2.2 Test Graph

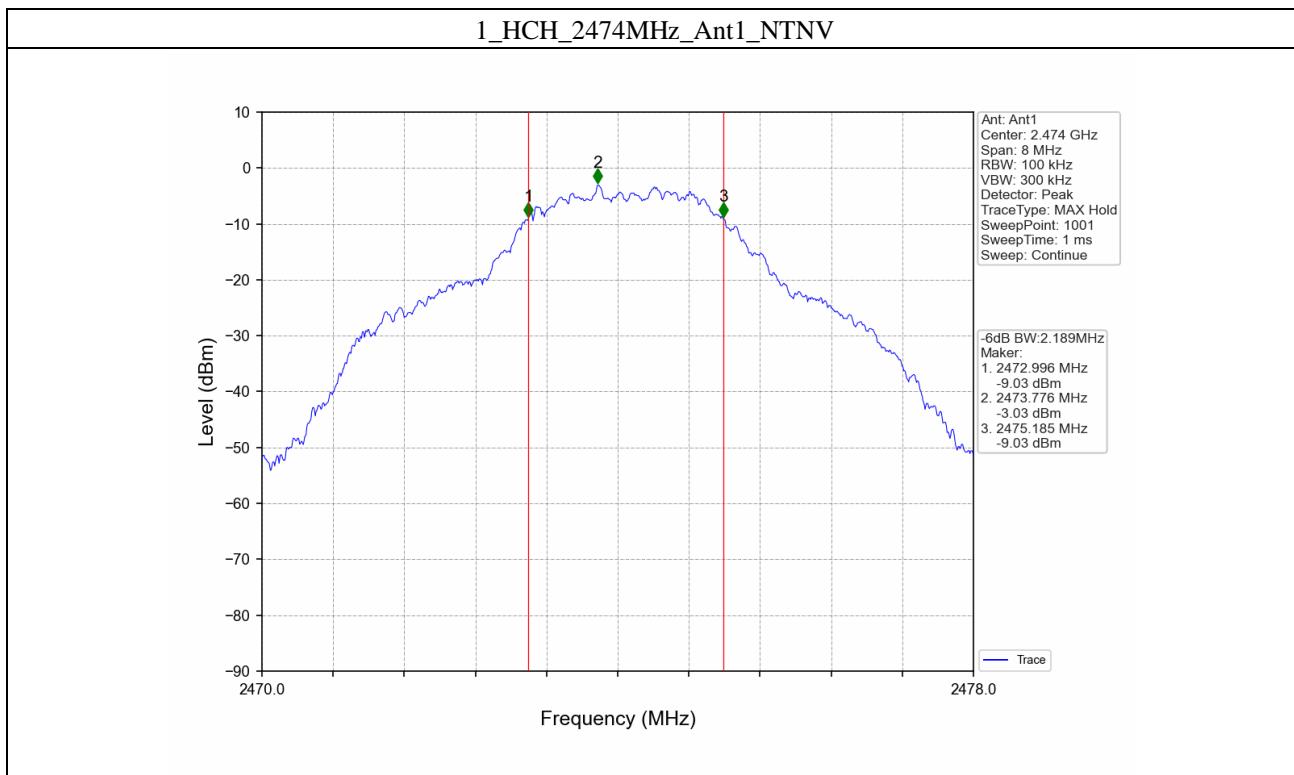


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### 3. Maximum Conducted Output Power

#### 3.1 Power

##### 3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Conducted Output Power (dBm)		Verdict
			Ant1	Limit	
1	SISO	2406	0.42	<=30	Pass
		2438	-0.66	<=30	Pass
		2474	-1.79	<=30	Pass

### 4. Maximum Power Spectral Density

#### 4.1 PSD

##### 4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			Ant1	Limit	
1	SISO	2406	-15.88	<=8	Pass
		2438	-17.22	<=8	Pass
		2474	-19.50	<=8	Pass

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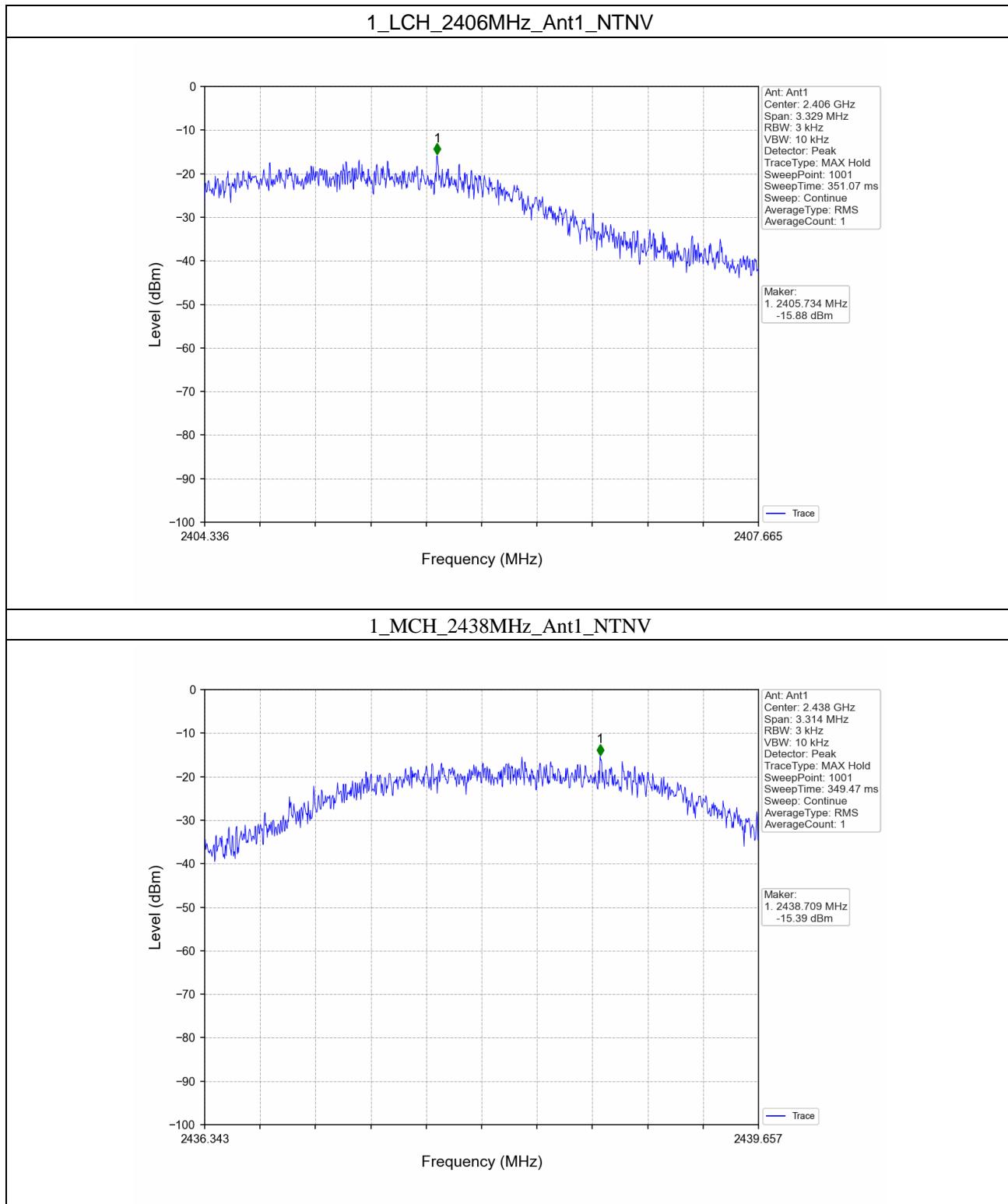
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**4.1.2 Test Graph**

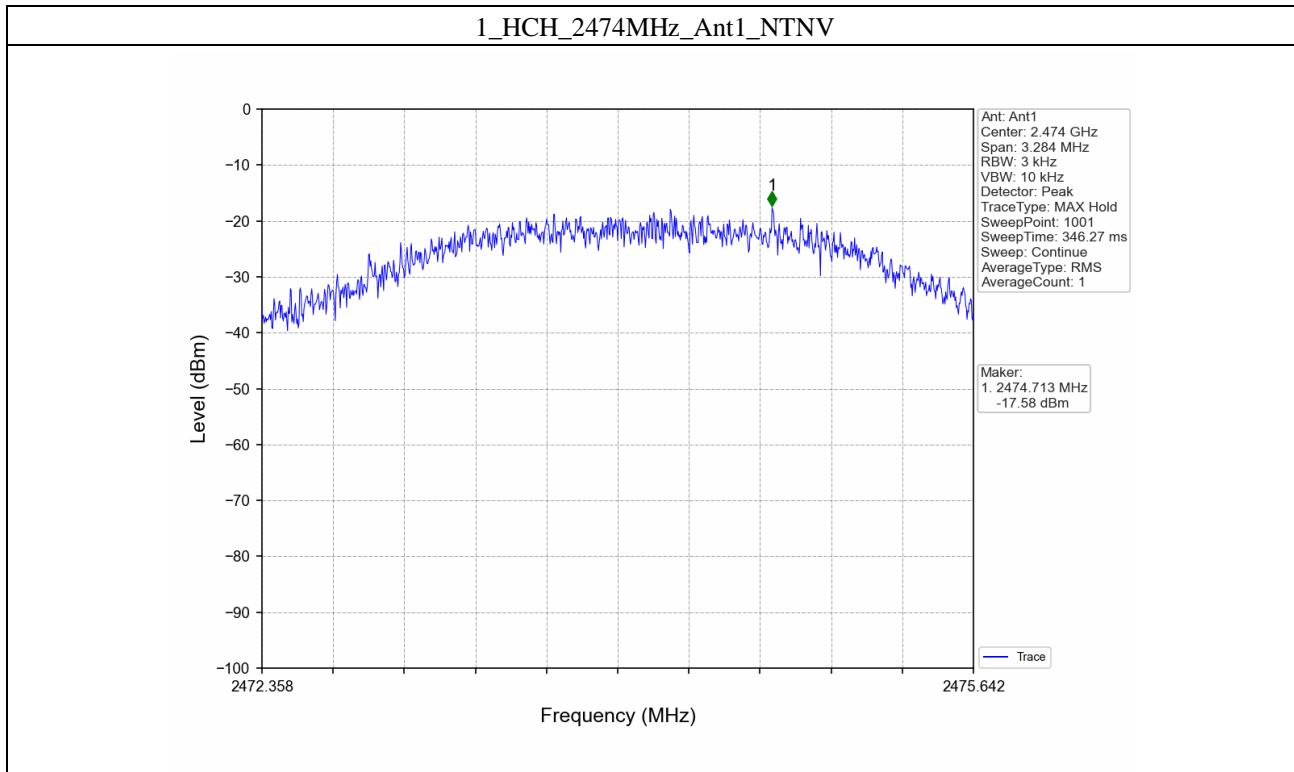
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## 5. Unwanted Emissions In Non-restricted Frequency Bands

### 5.1 Ref

#### 5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
1	SISO	2406	1	-2.47
		2438	1	-3.58
		2474	1	-4.49

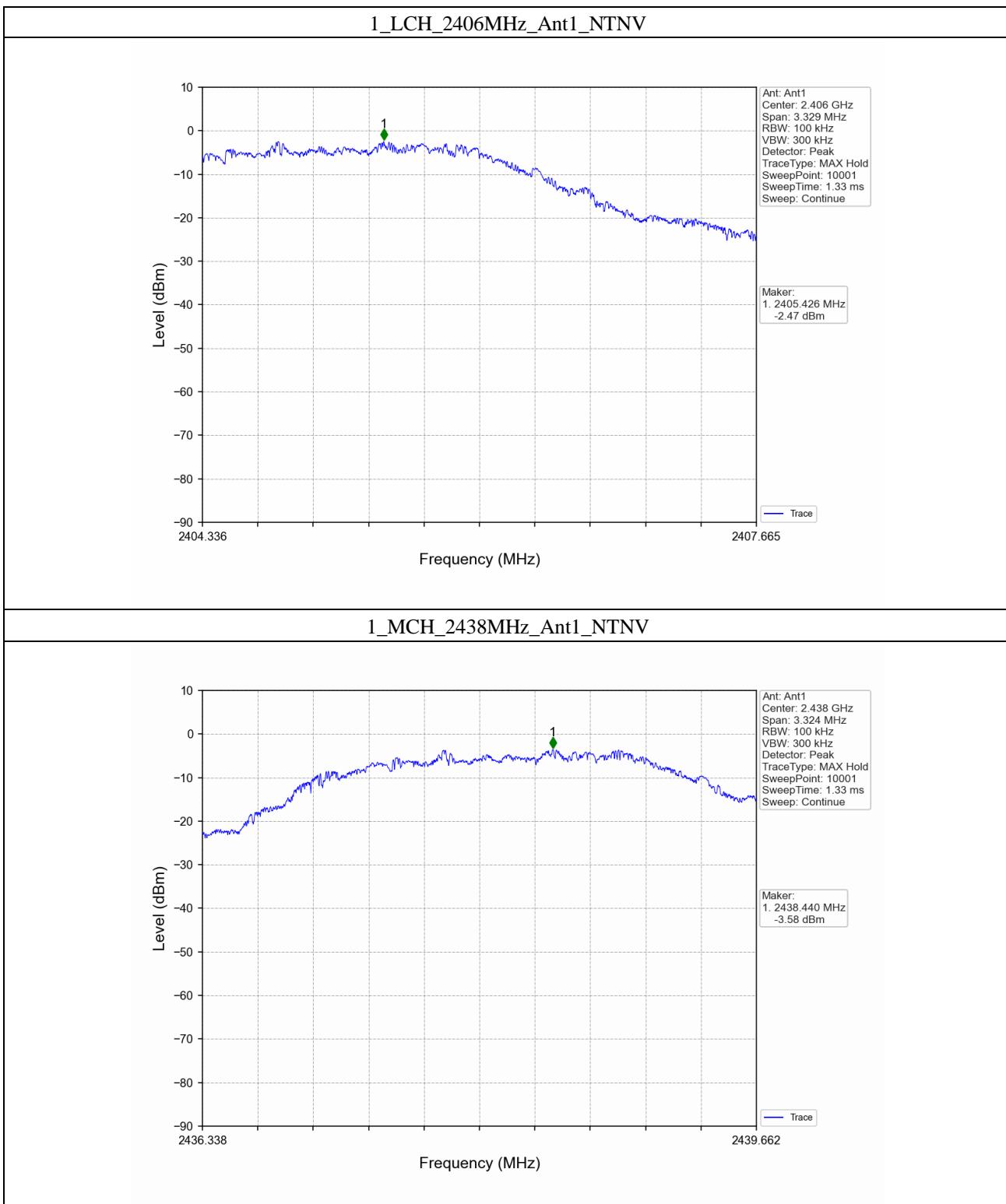
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



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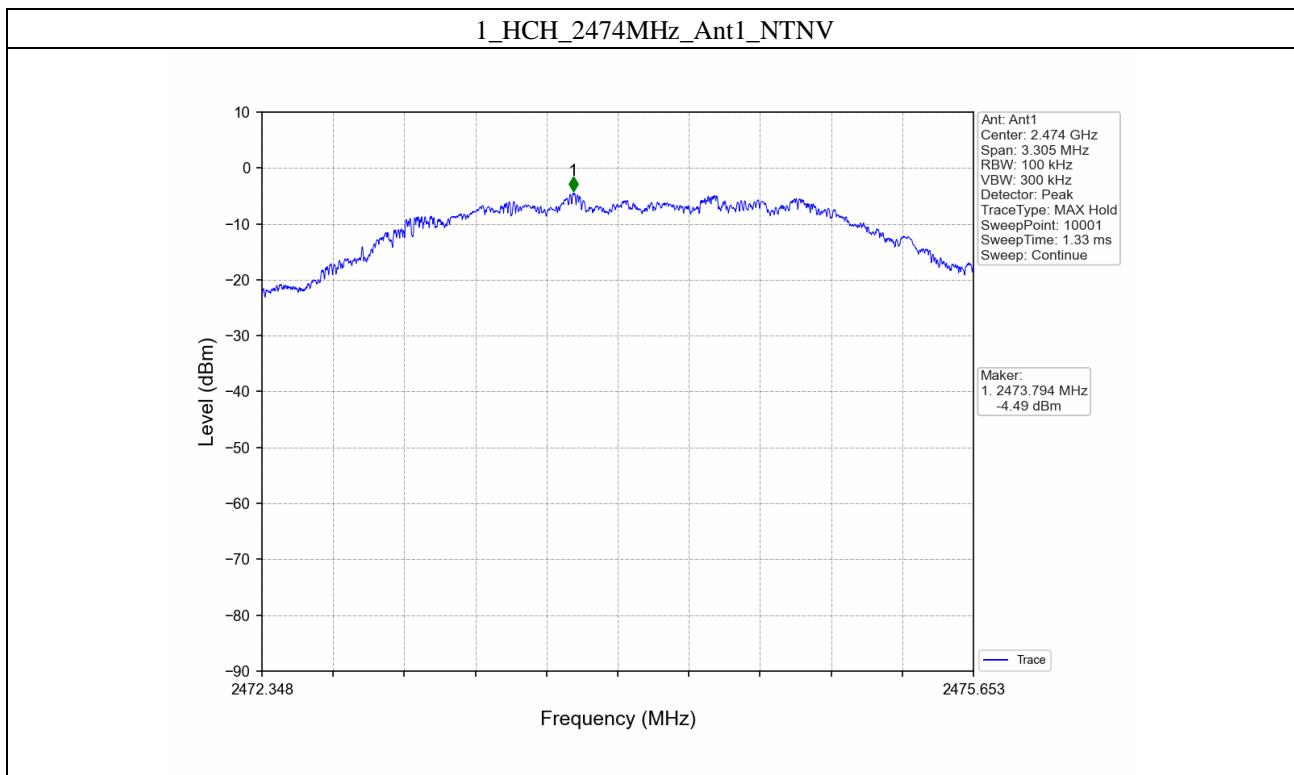
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## 5.2 CSE

### 5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
1	SISO	2406	1	-2.47	-32.47	Pass
		2438	1	-2.47	-32.47	Pass
		2474	1	-2.47	-32.47	Pass

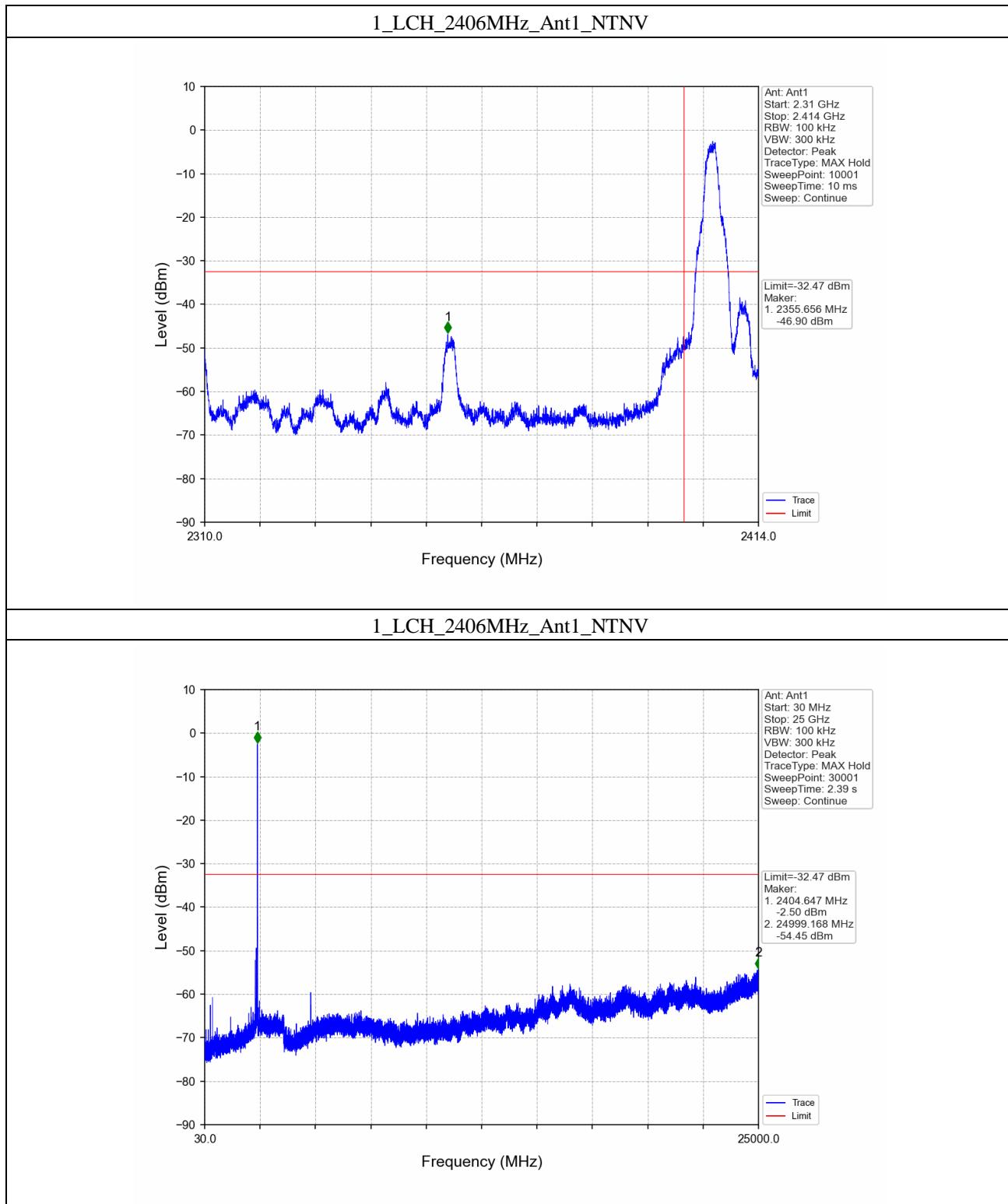
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



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### 5.2.2 Test Graph



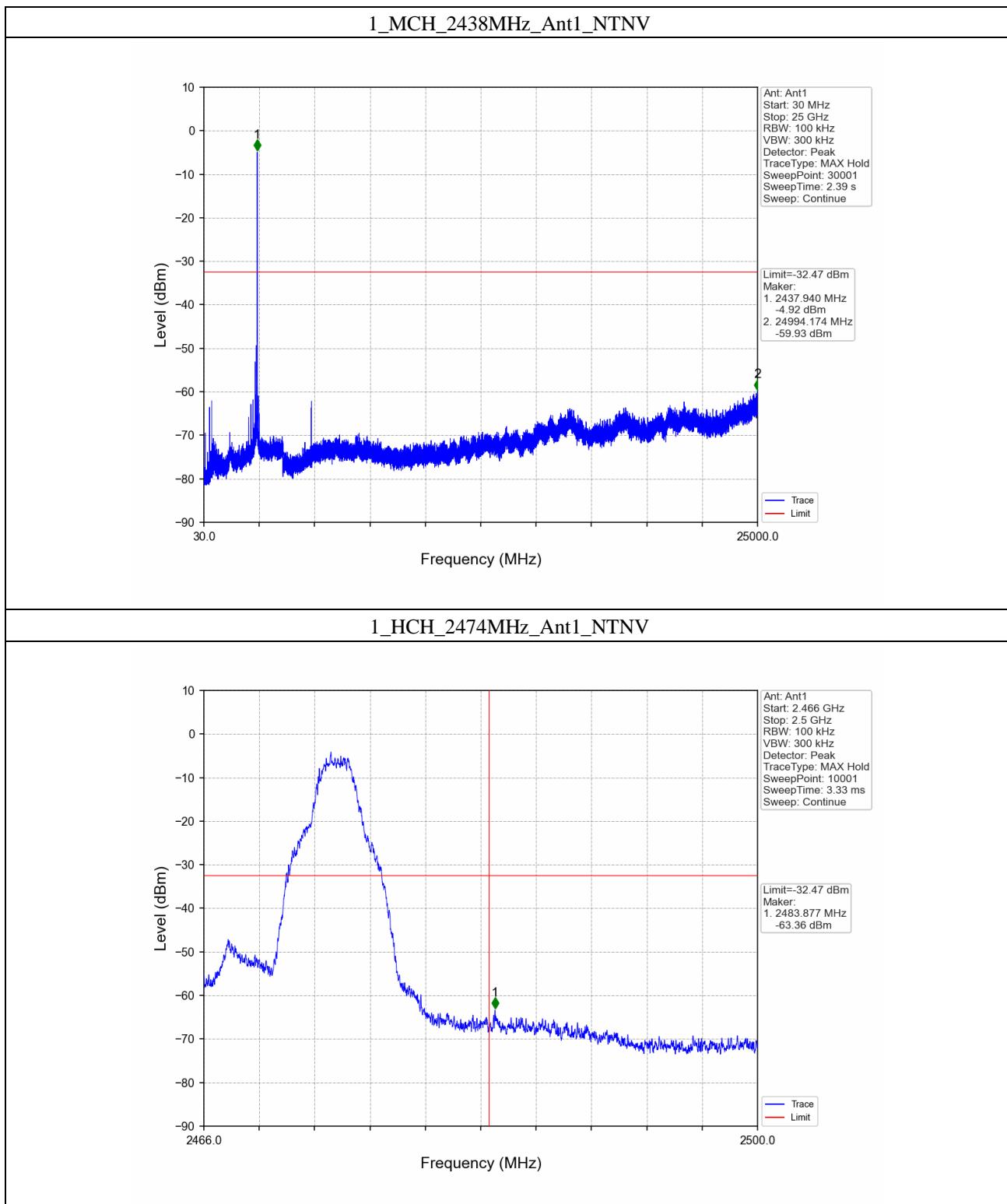
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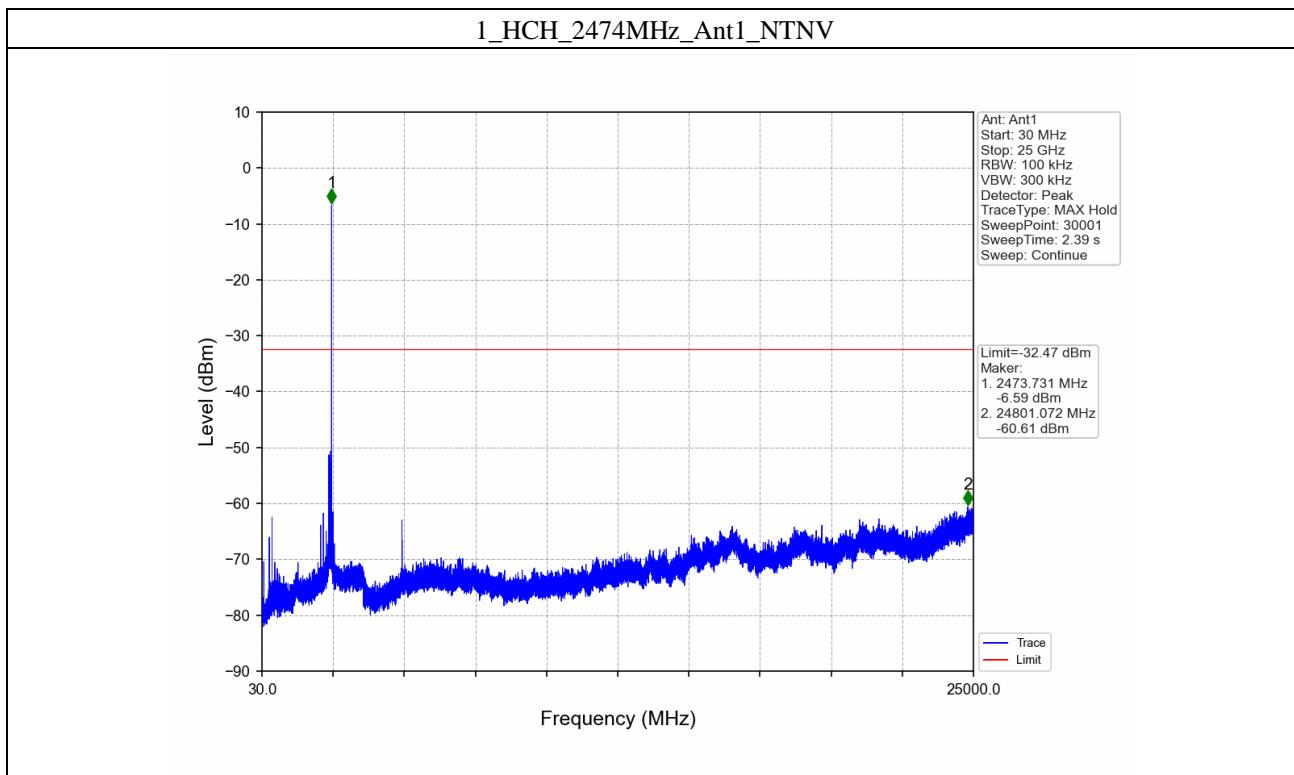
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Ant2

## 1. Duty Cycle

### 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 (%)
1	SISO	2406	100.000	100.000	100.00	0.00	0.00
		2438	100.000	100.000	100.00	0.00	0.00
		2474	100.000	100.000	100.00	0.00	0.00

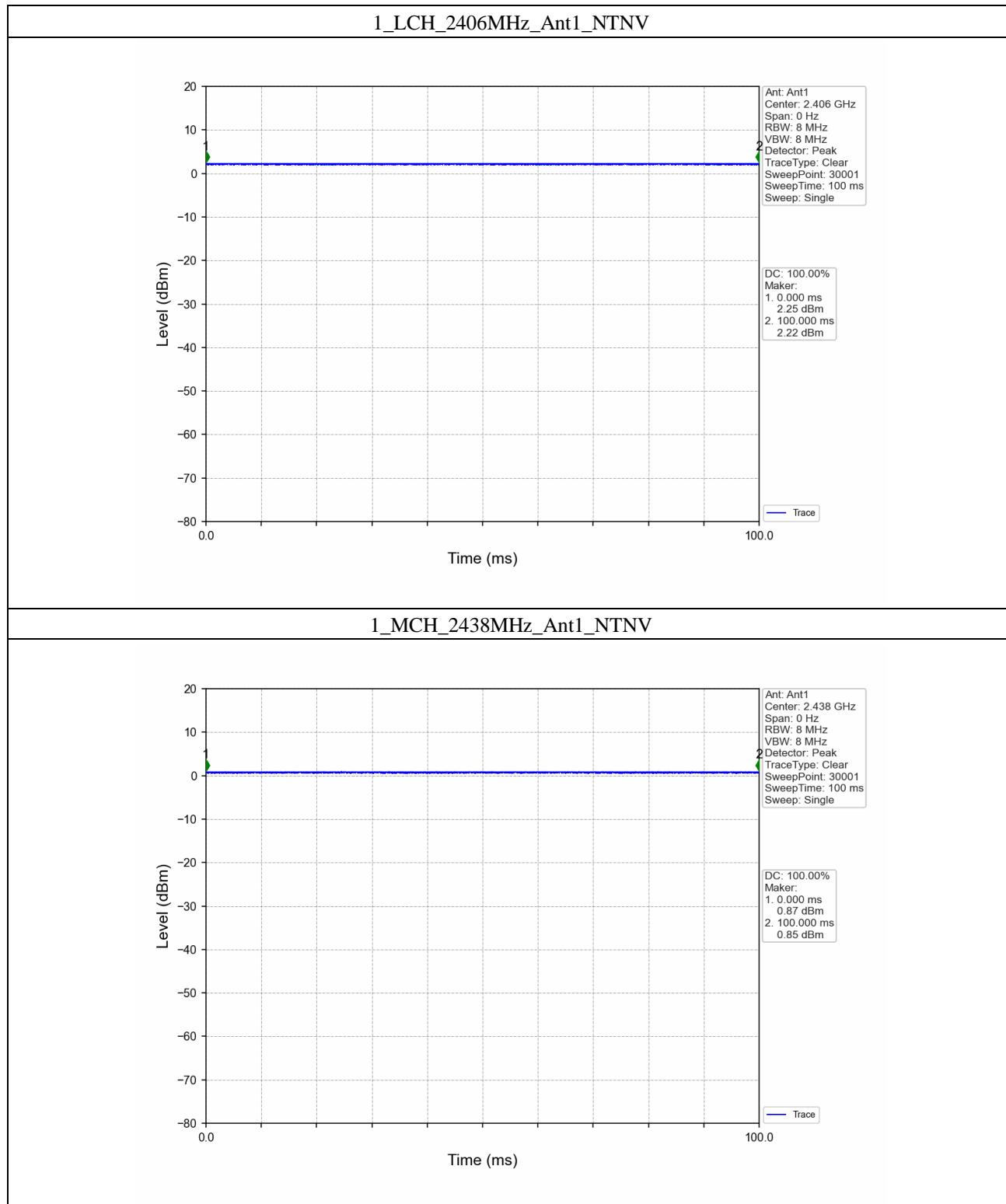
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### 1.1.2 Test Graph



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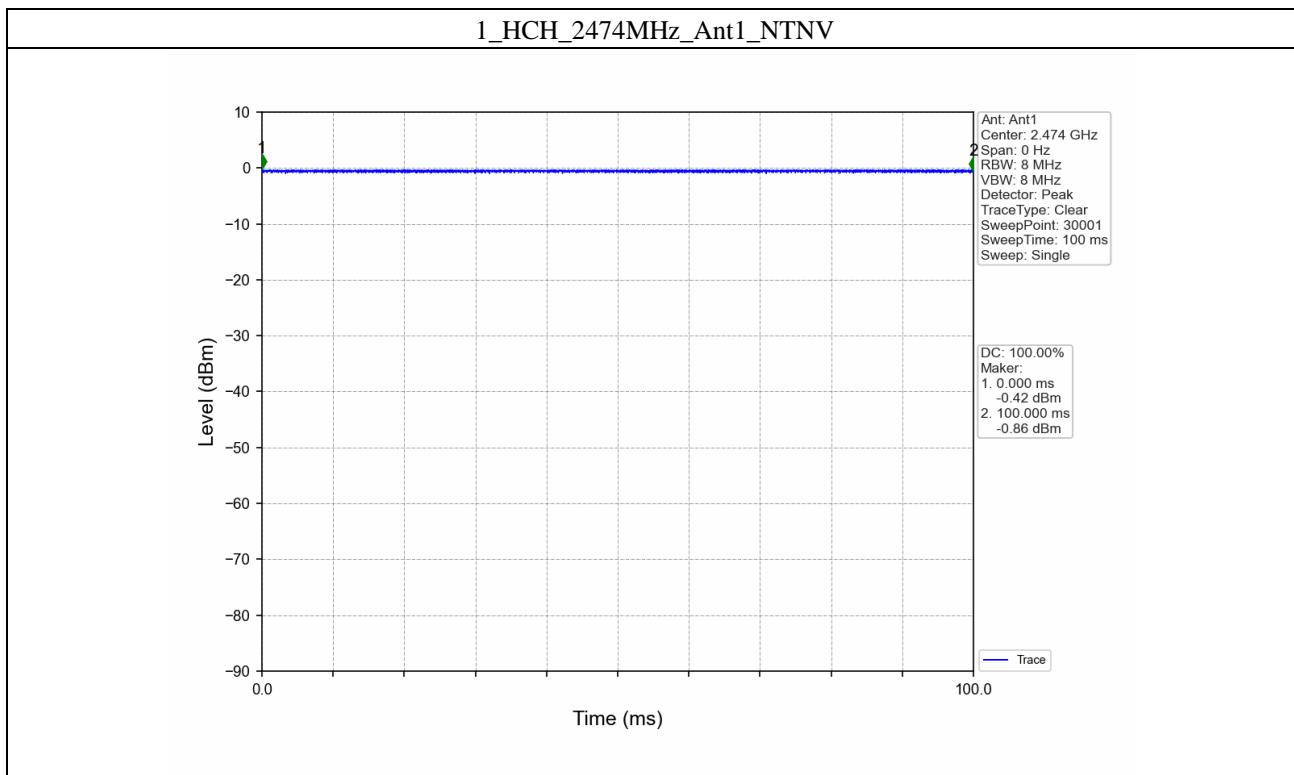
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## 2. Bandwidth

### 2.1 OBW

#### 2.1.1 Test Result

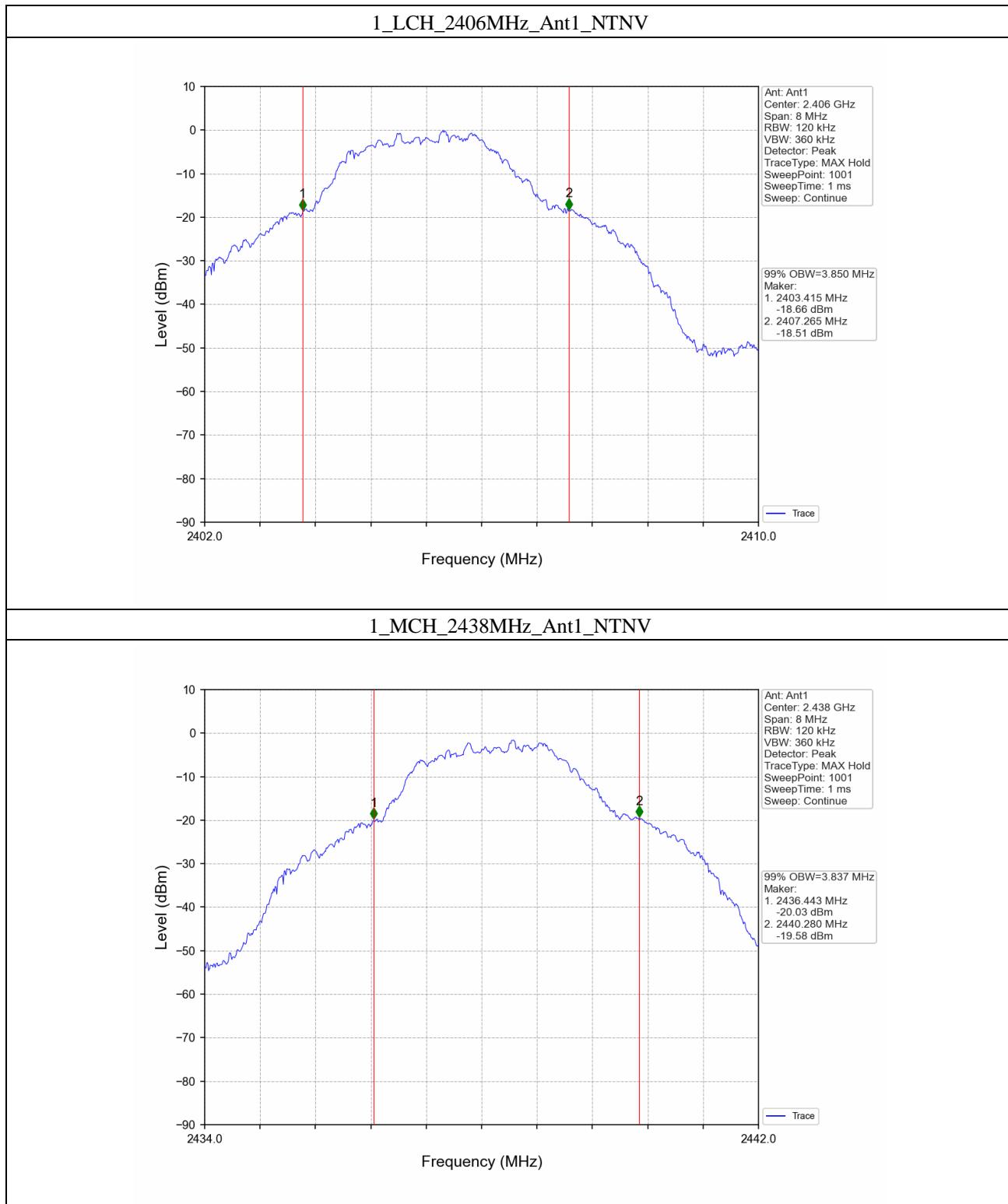
Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Verdict
				Result	
1	SISO	2406	1	3.850	Pass
		2438	1	3.837	Pass
		2474	1	3.789	Pass

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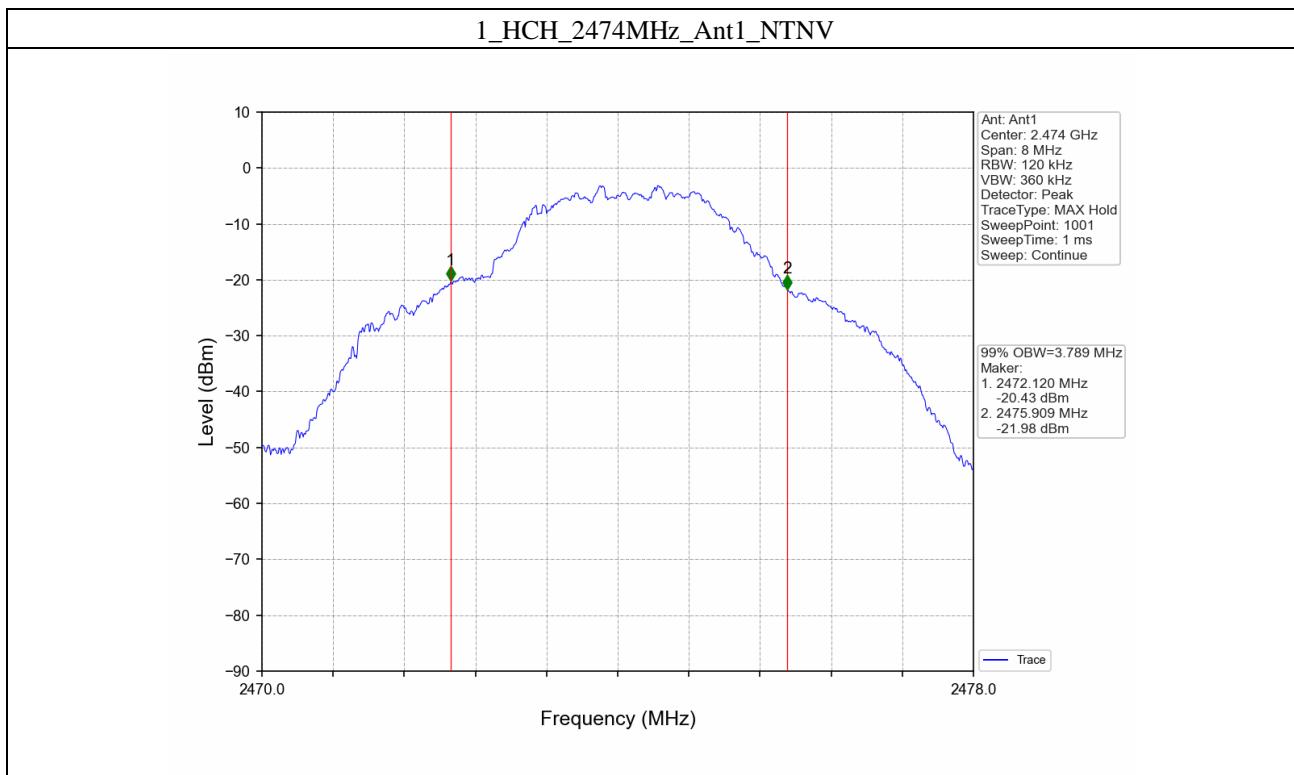
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**2.1.2 Test Graph**

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**2.2 6dB BW****2.2.1 Test Result**

Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1	SISO	2406	1	2.176	>=0.5	Pass
		2438	1	2.204	>=0.5	Pass
		2474	1	2.187	>=0.5	Pass

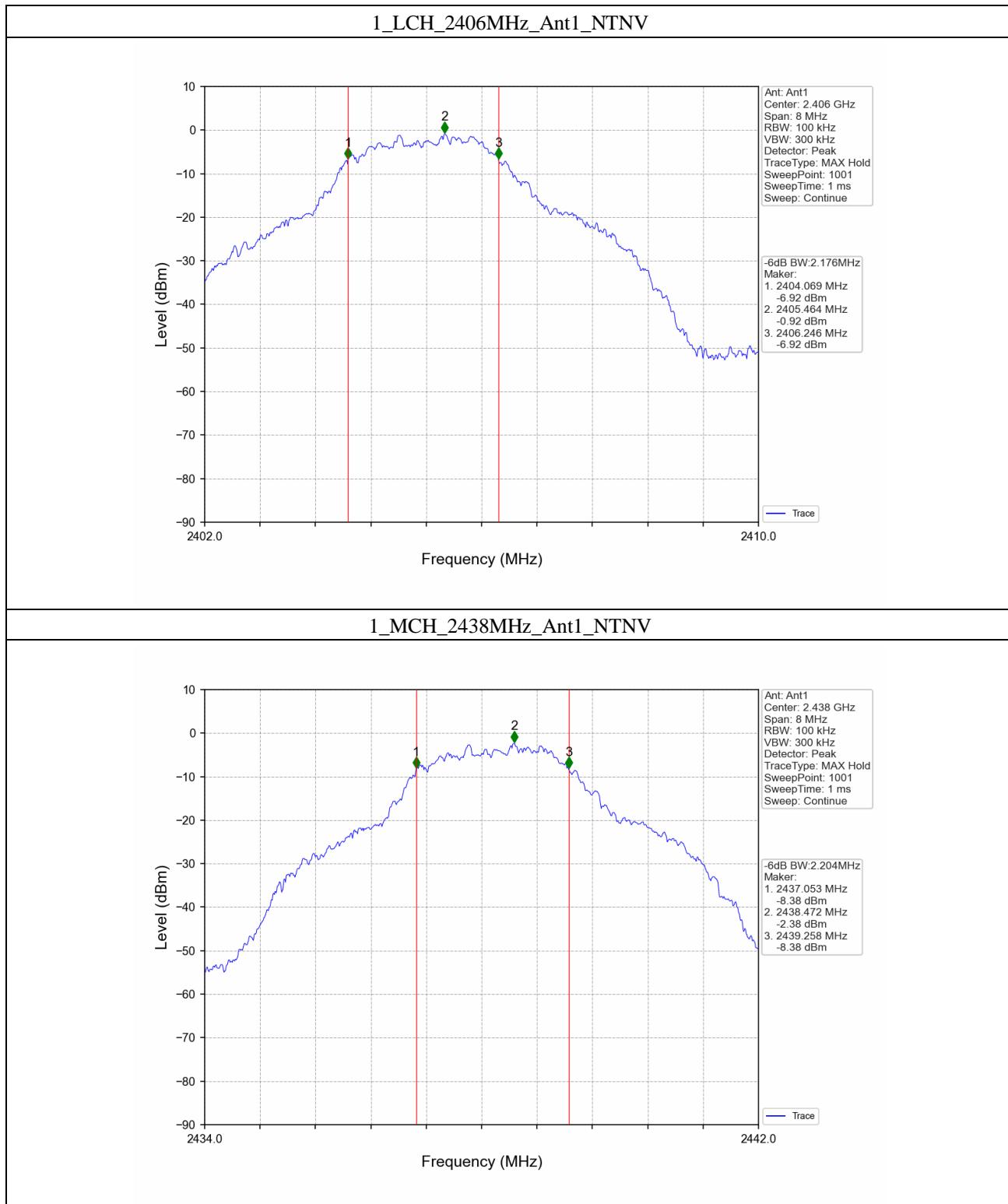
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## 2.2.2 Test Graph



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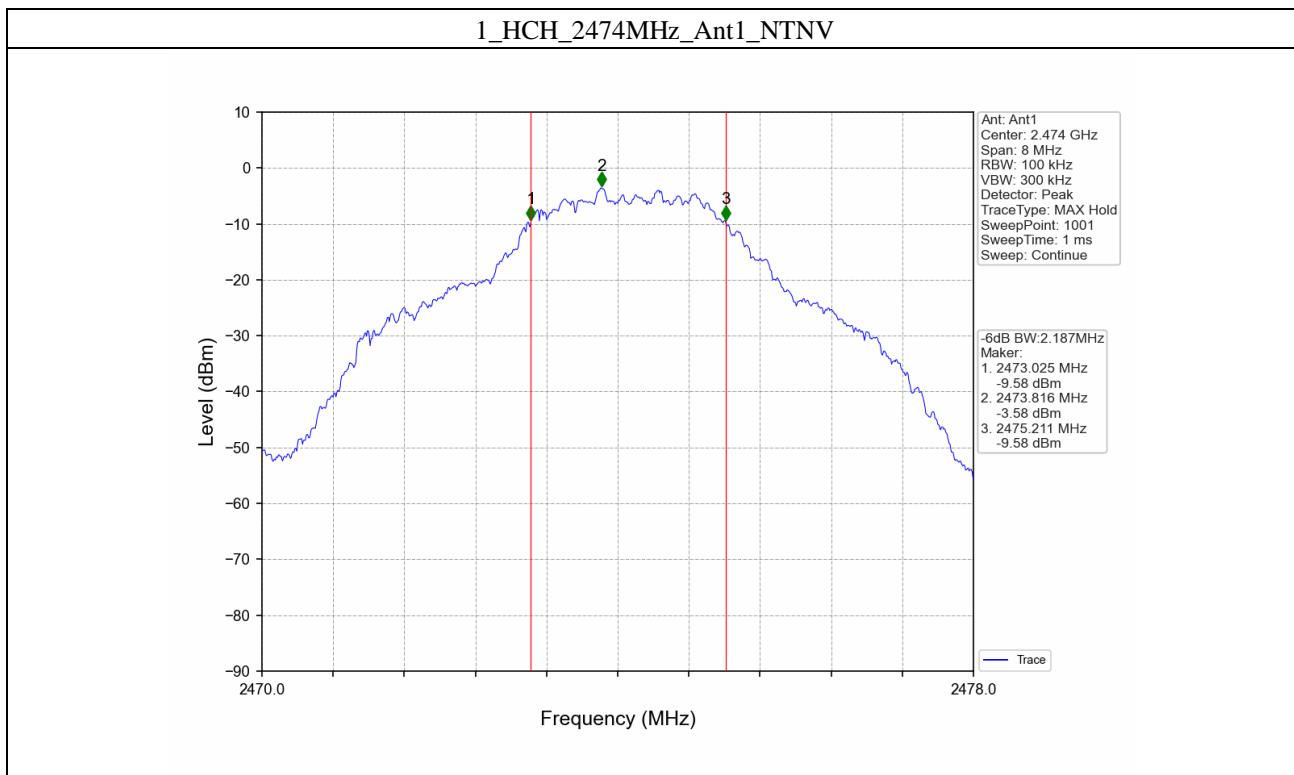
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### 3. Maximum Conducted Output Power

#### 3.1 Power

##### 3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Conducted Output Power (dBm)		Verdict
			Ant1	Limit	
1	SISO	2406	1.48	<=30	Pass
		2438	0.11	<=30	Pass
		2474	-1.09	<=30	Pass

Note1: Antenna Gain: Ant1: 3dBi;



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## 4. Maximum Power Spectral Density

### 4.1 PSD

#### 4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			Ant1	Limit	
1	SISO	2406	-15.53	<=8	Pass
		2438	-16.25	<=8	Pass
		2474	-18.22	<=8	Pass

Note1: Antenna Gain: Ant1: 0.00dBi;

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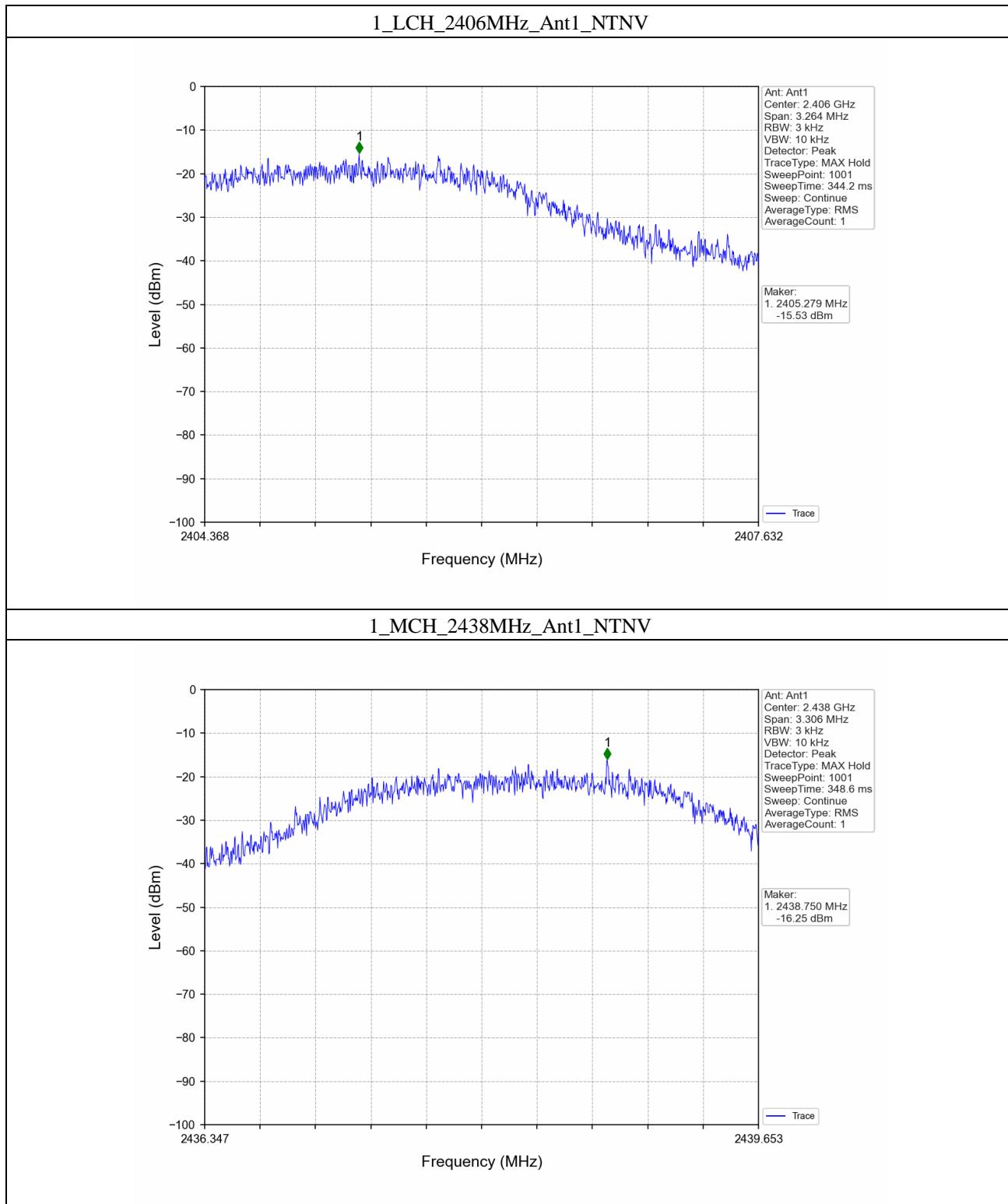
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**4.1.2 Test Graph**

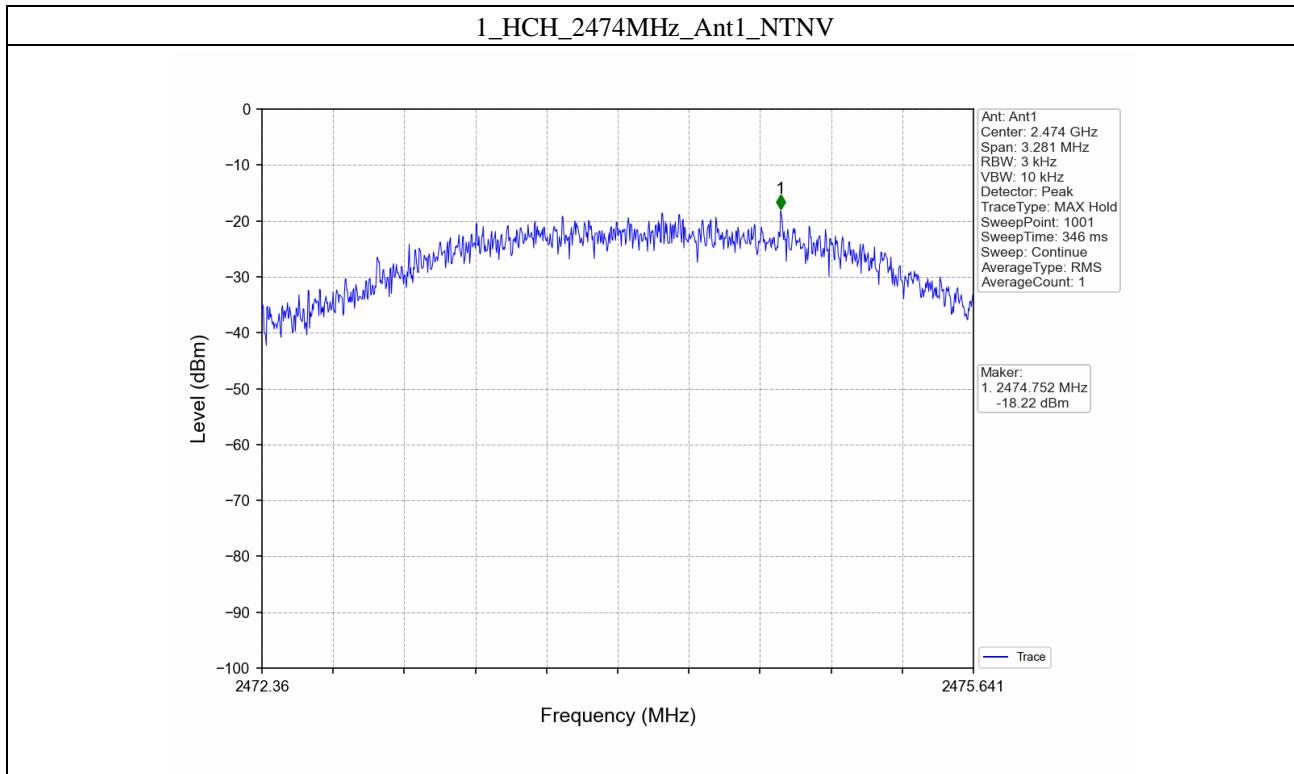
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## 5. Unwanted Emissions In Non-restricted Frequency Bands

### 5.1 Ref

#### 5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
1	SISO	2406	1	-1.39
		2438	1	-2.74
		2474	1	-3.81

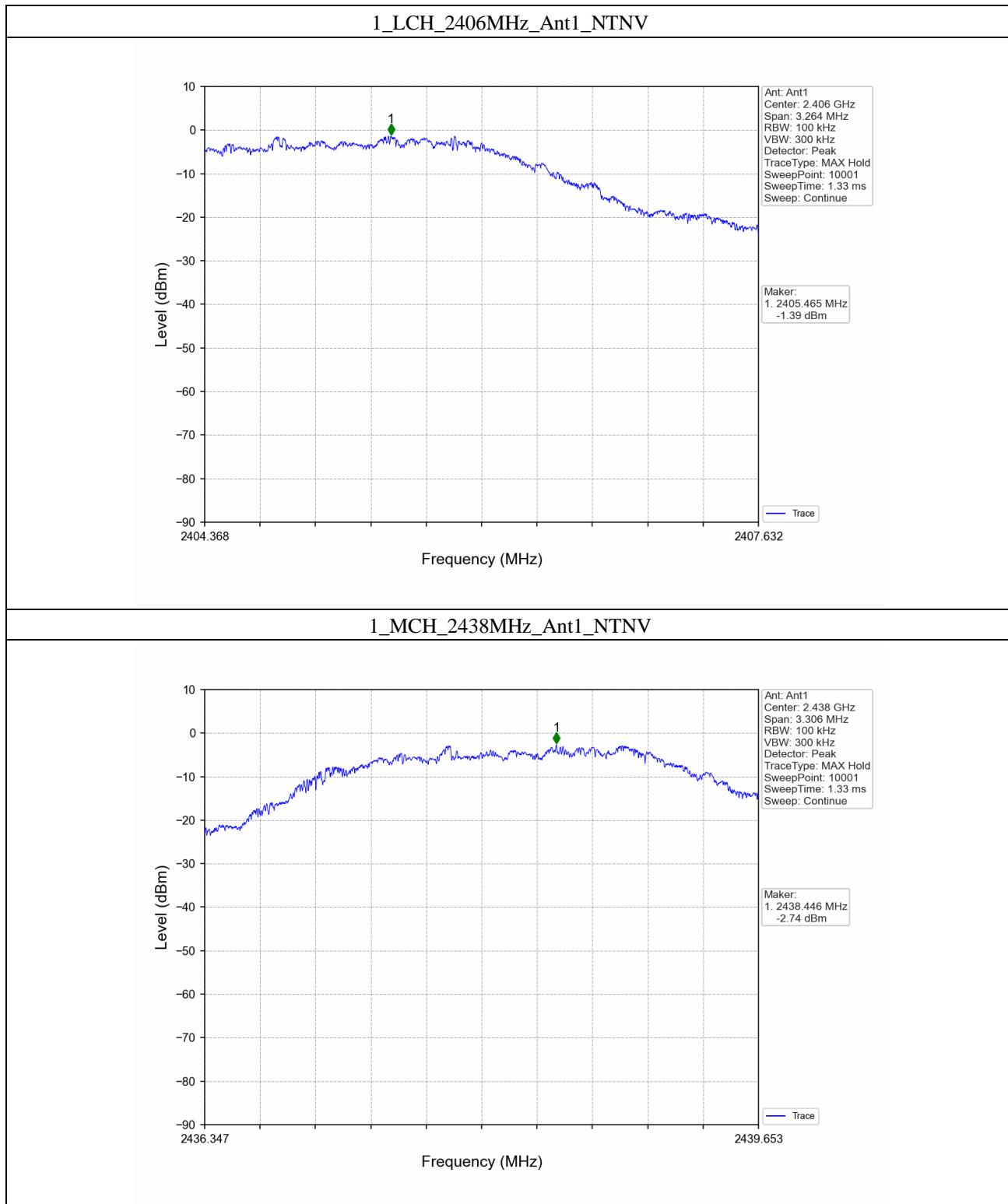
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



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**5.1.2 Test Graph**

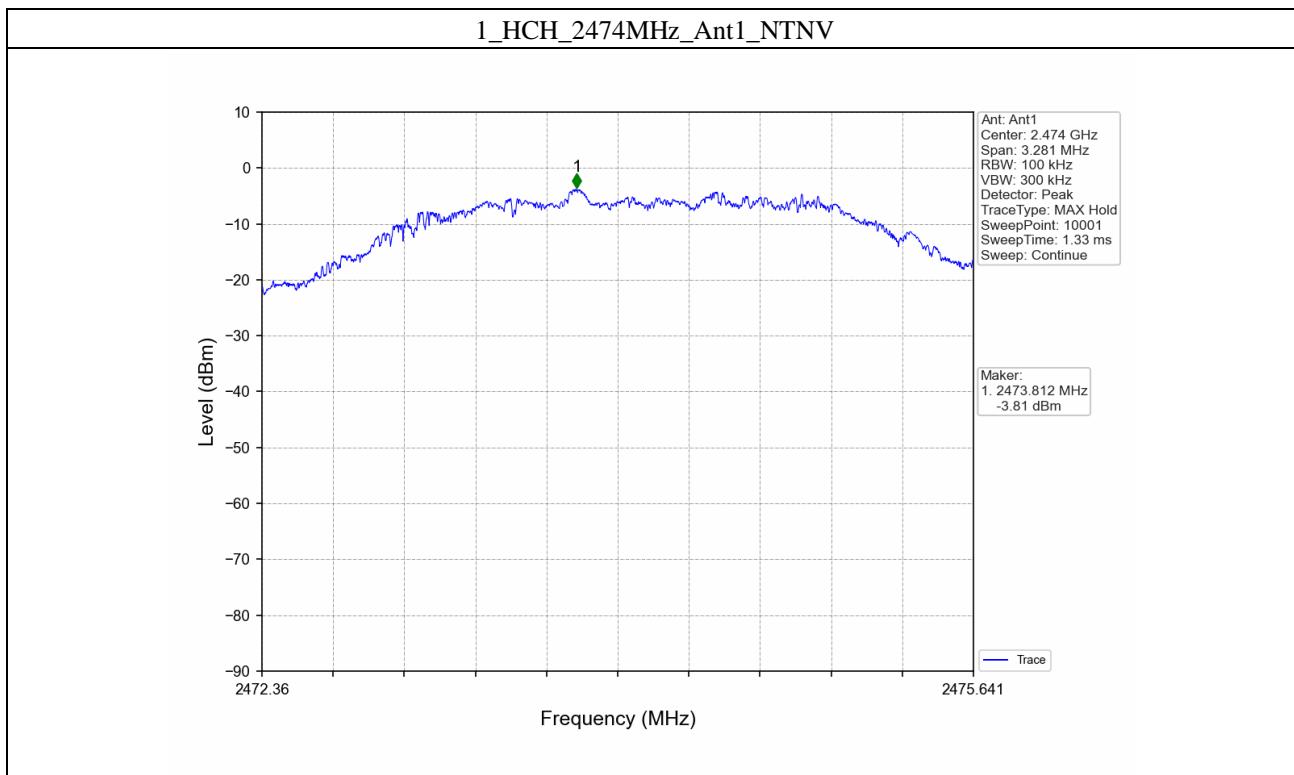
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## 5.2 CSE

### 5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
1	SISO	2406	1	-1.39	-31.39	Pass
		2438	1	-1.39	-31.39	Pass
		2474	1	-1.39	-31.39	Pass

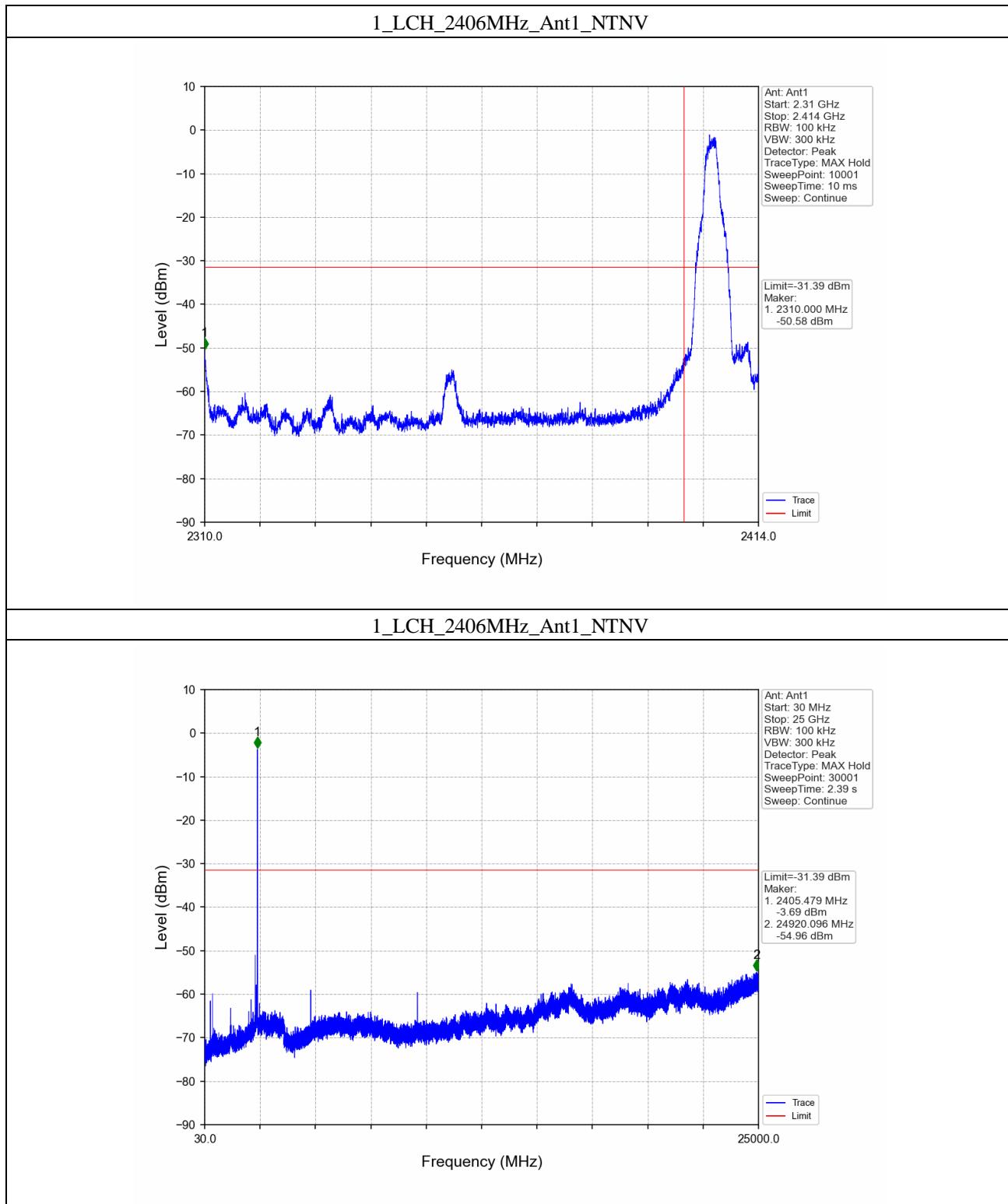
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



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### 5.2.2 Test Graph



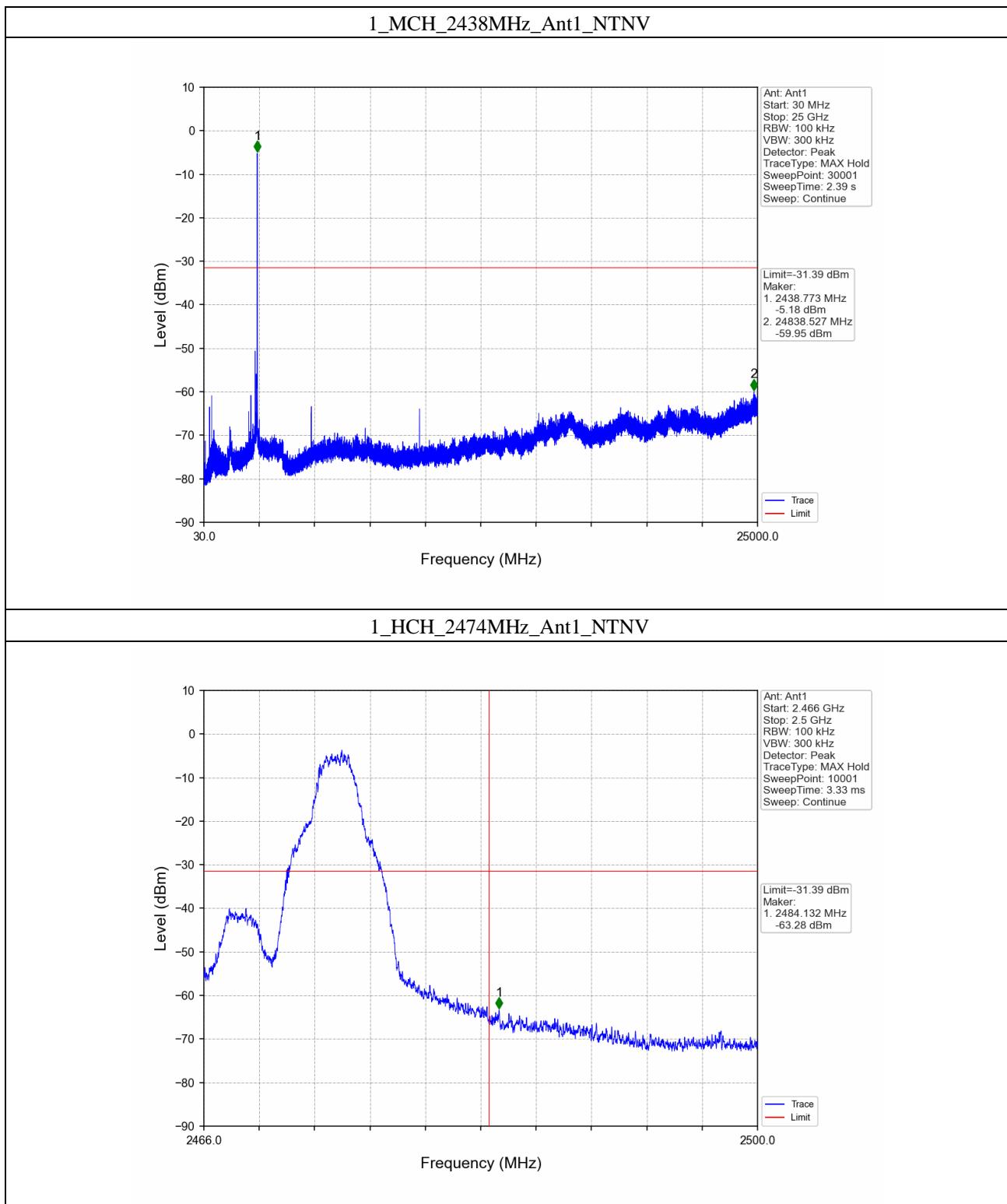
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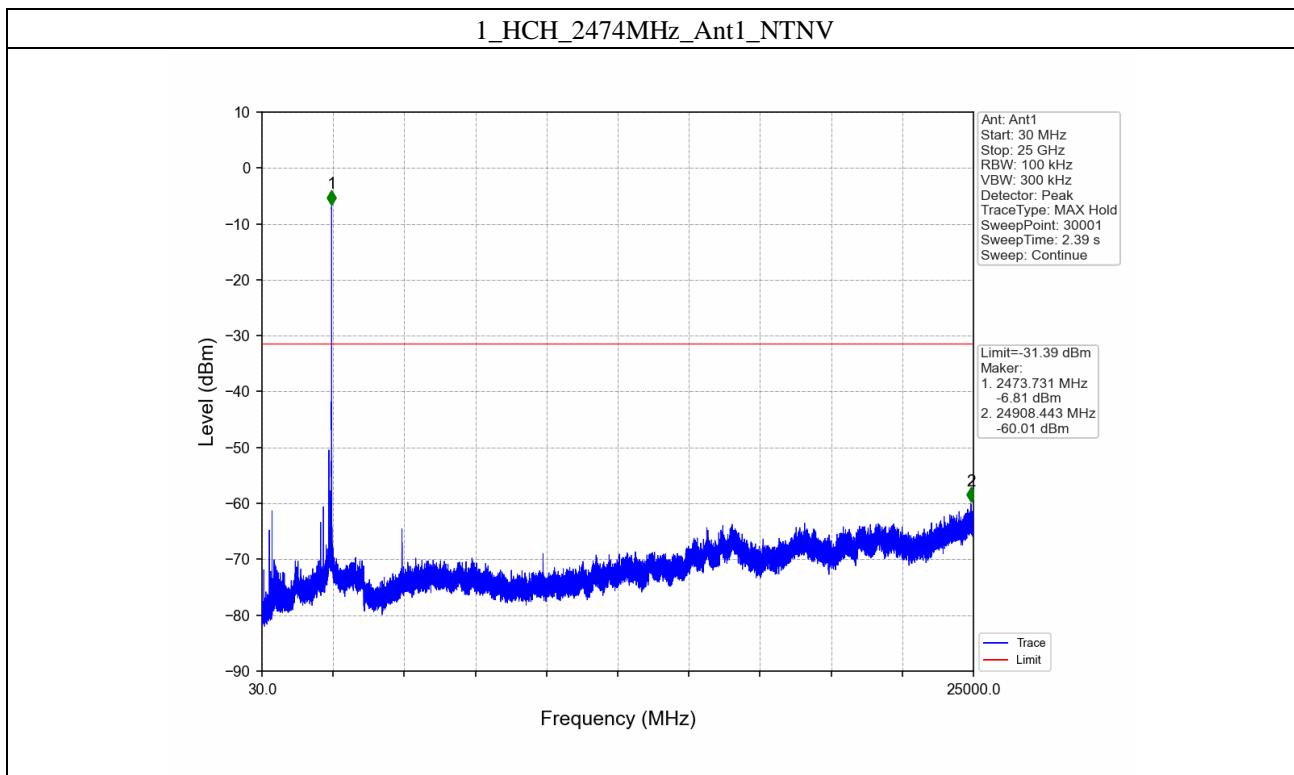
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