



Shenzhen CTL Testing Technology Co., Ltd.

Floor 1-A, Baisha Technology Park, No.3011, Shaheji Road, Nanshan District, Shenzhen, China 518055
Tel: +86-755-89486194 E-mail: ctl@ctl-lab.com

Annex for 2.4G

Test Report No.: CTL2503041041-WF02

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FCCID: 2AZSQ-WA1

1. Bandwidth

1.1 Test Result

1.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
1	SISO	2402	1	0.848	/	Pass
		2441	1	0.856	/	Pass
		2480	1	0.862	/	Pass

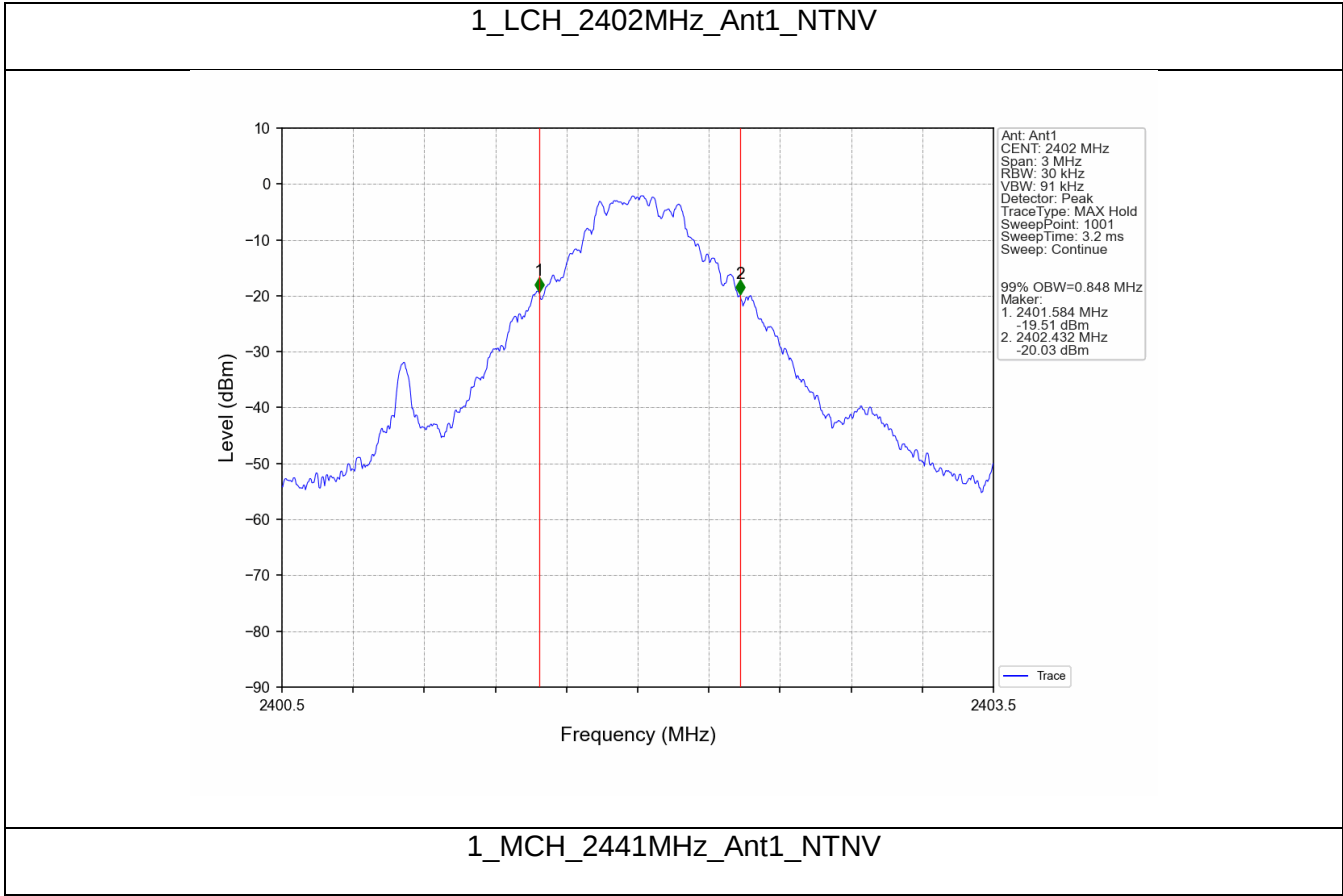
1.1.2 20dB BW

Mode	TX Type	Frequency (MHz)	ANT	20dB Bandwidth (MHz)		Verdict
				Result	Limit	
1	SISO	2402	1	0.955	/	Pass
		2441	1	0.951	/	Pass
		2480	1	0.977	/	Pass

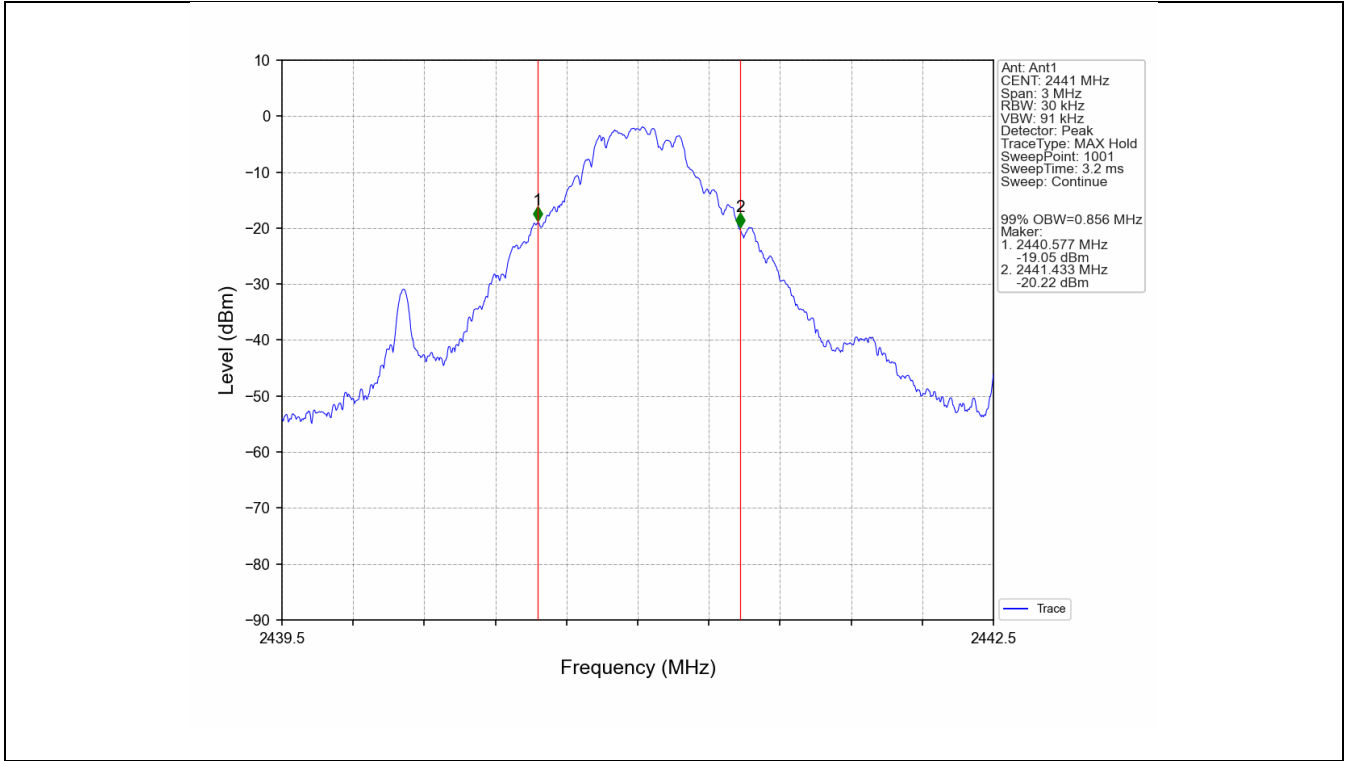
FCCID: 2AZSQ-WA1

1.2 Test Graph

1.2.1 OBW

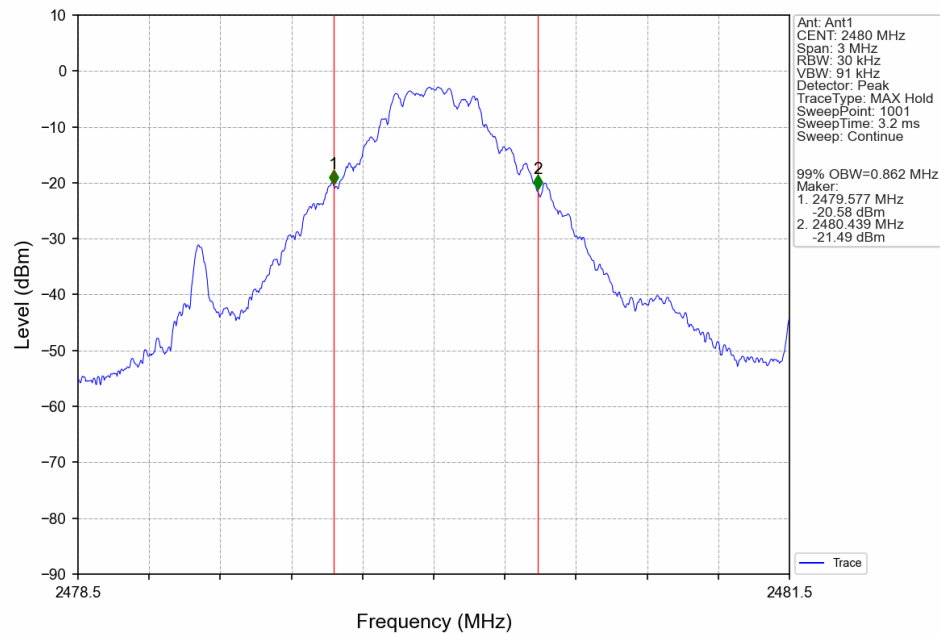


FCCID: 2AZSQ-WA1



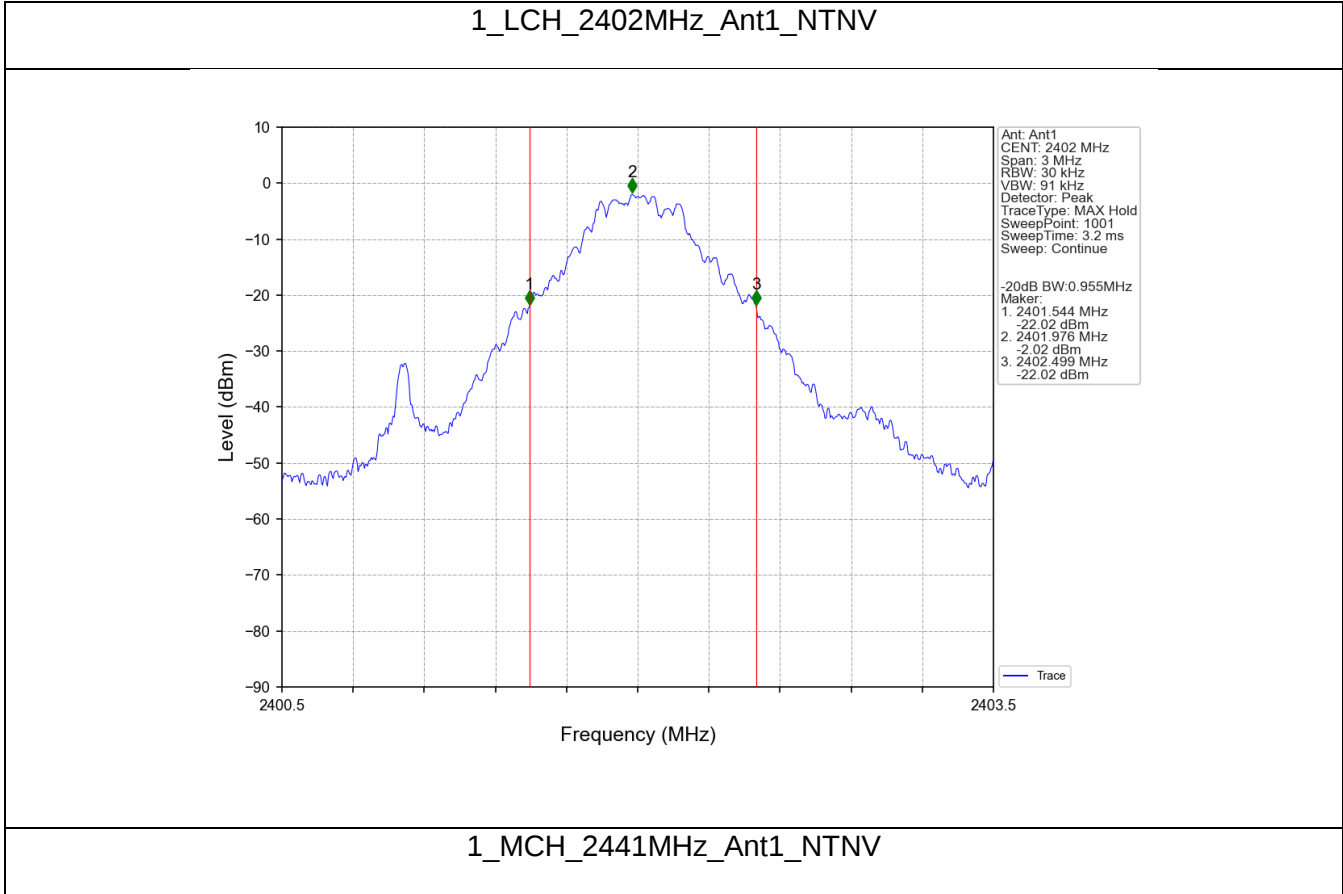
FCCID: 2AZSQ-WA1

1_HCH_2480MHz_Ant1_NTNV

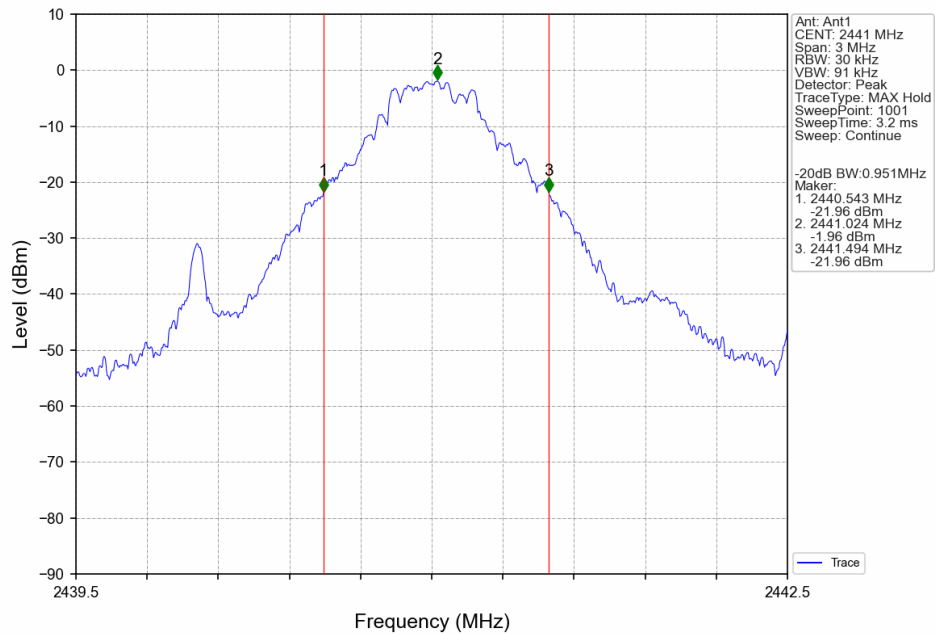


FCCID: 2AZSQ-WA1

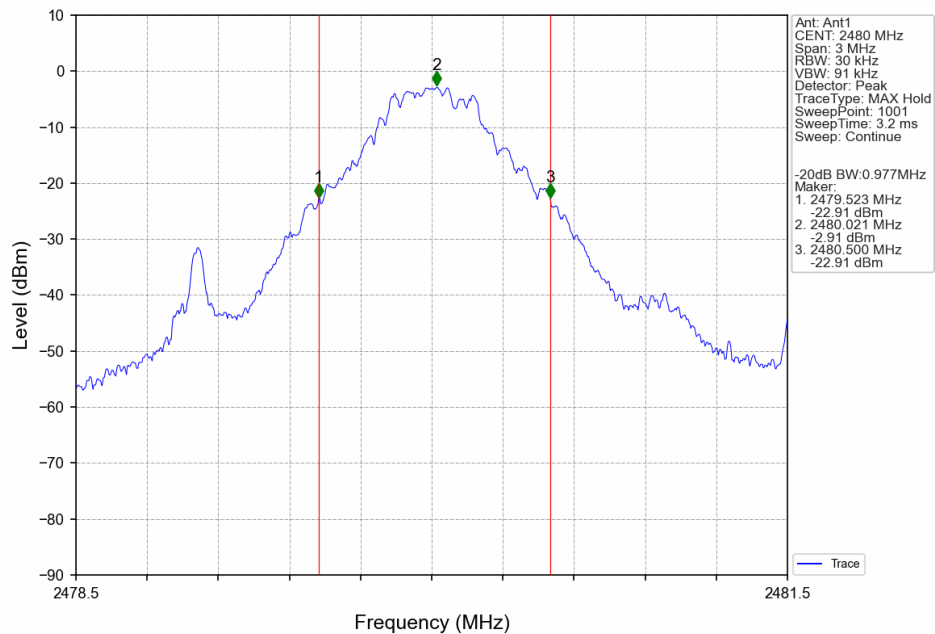
1.2.2 20dB BW



FCCID: 2AZSQ-WA1



1_HCH_2480MHz_Ant1_NTNV



FCCID: 2AZSQ-WA1

2. Maximum Conducted Output Power

2.1 Test Result

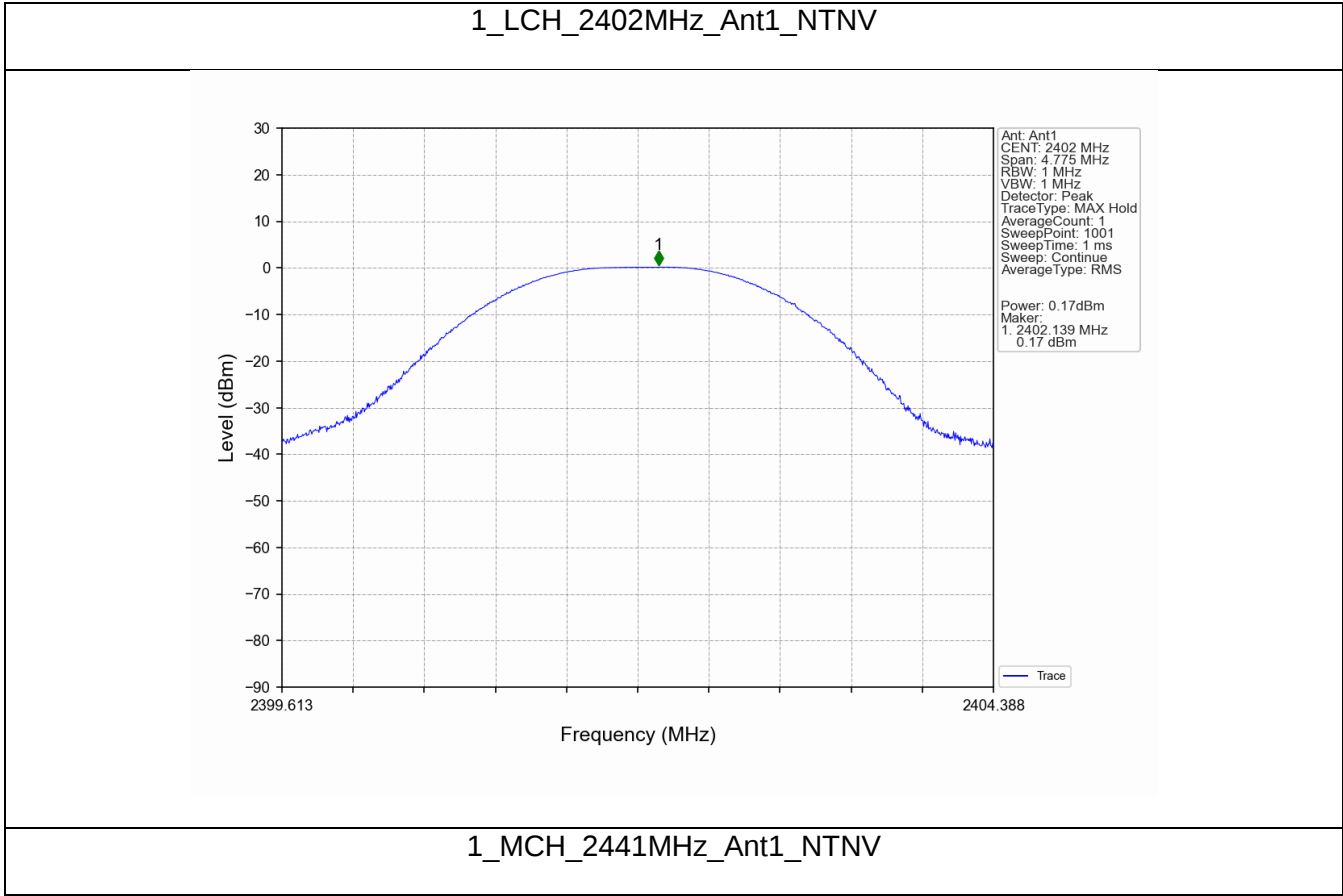
2.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1	SISO	2402	0.17	<=30	Pass
		2441	0.32	<=30	Pass
		2480	-0.54	<=30	Pass
Note1: Antenna Gain: Ant1: 2.00dBi;					

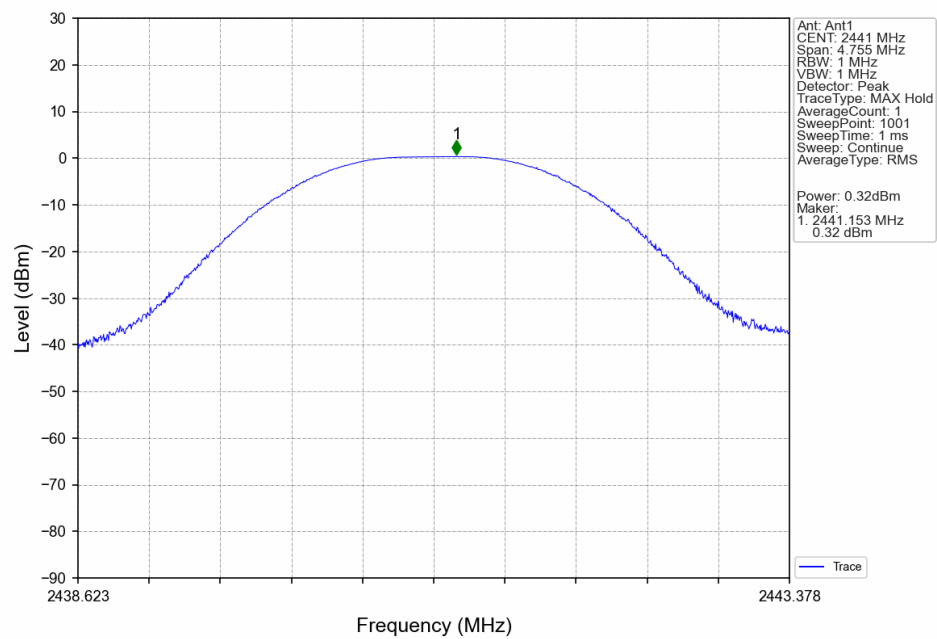
FCCID: 2AZSQ-WA1

2.2 Test Graph

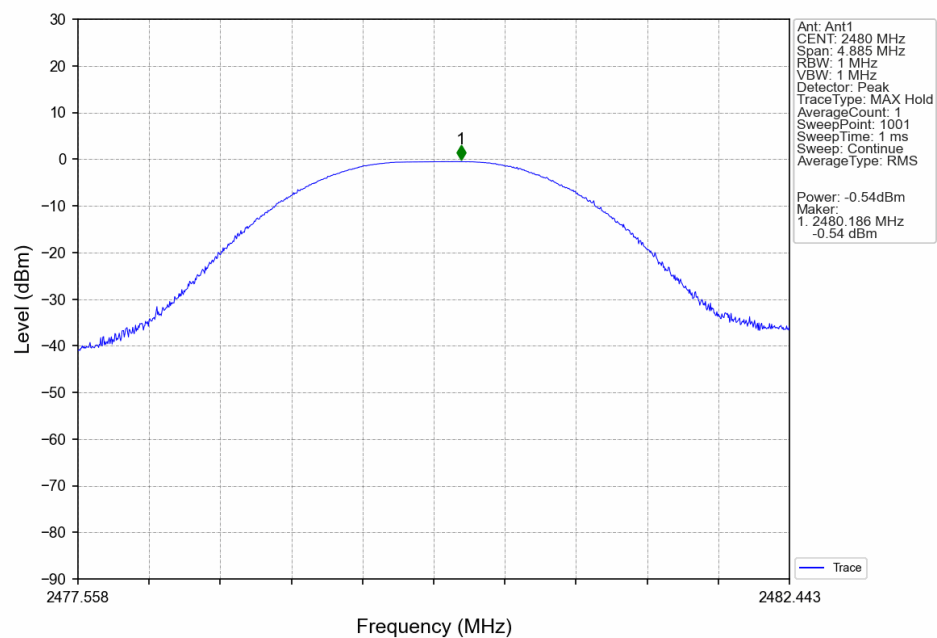
2.2.1 Power



FCCID: 2AZSQ-WA1



1_HCH_2480MHz_Ant1_NTNV



FCCID: 2AZSQ-WA1

3. Carrier Frequency Separation

3.1 Test Result

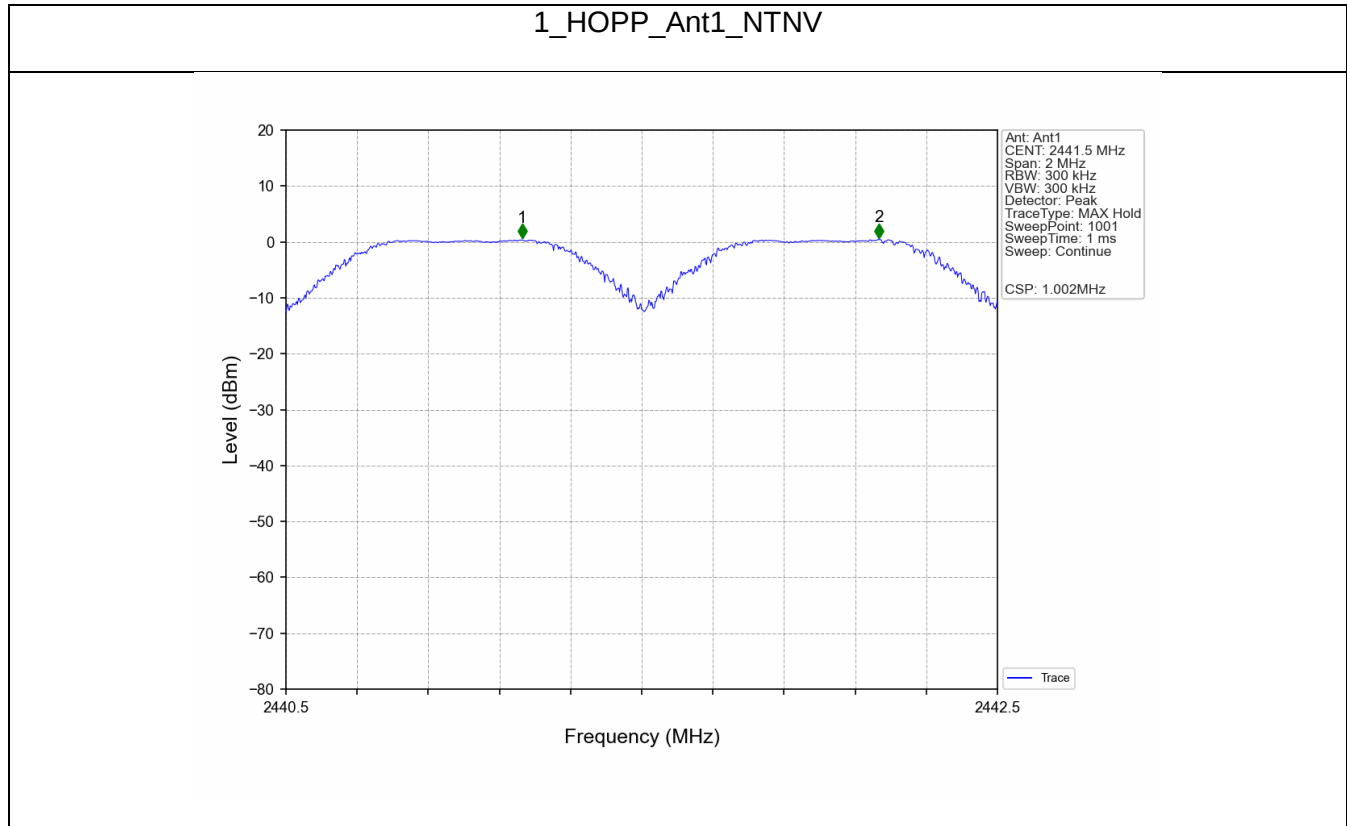
3.1.1 Ant1

Ant1						
Mode	TX Type	Frequency (MHz)	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
1	SISO	HOPP	1.002	0.977	≥ 0.977	Pass

FCCID: 2AZSQ-WA1

3.2 Test Graph

3.2.1 Ant1



FCCID: 2AZSQ-WA1

4. Number of Hopping Frequencies

4.1 Test Result

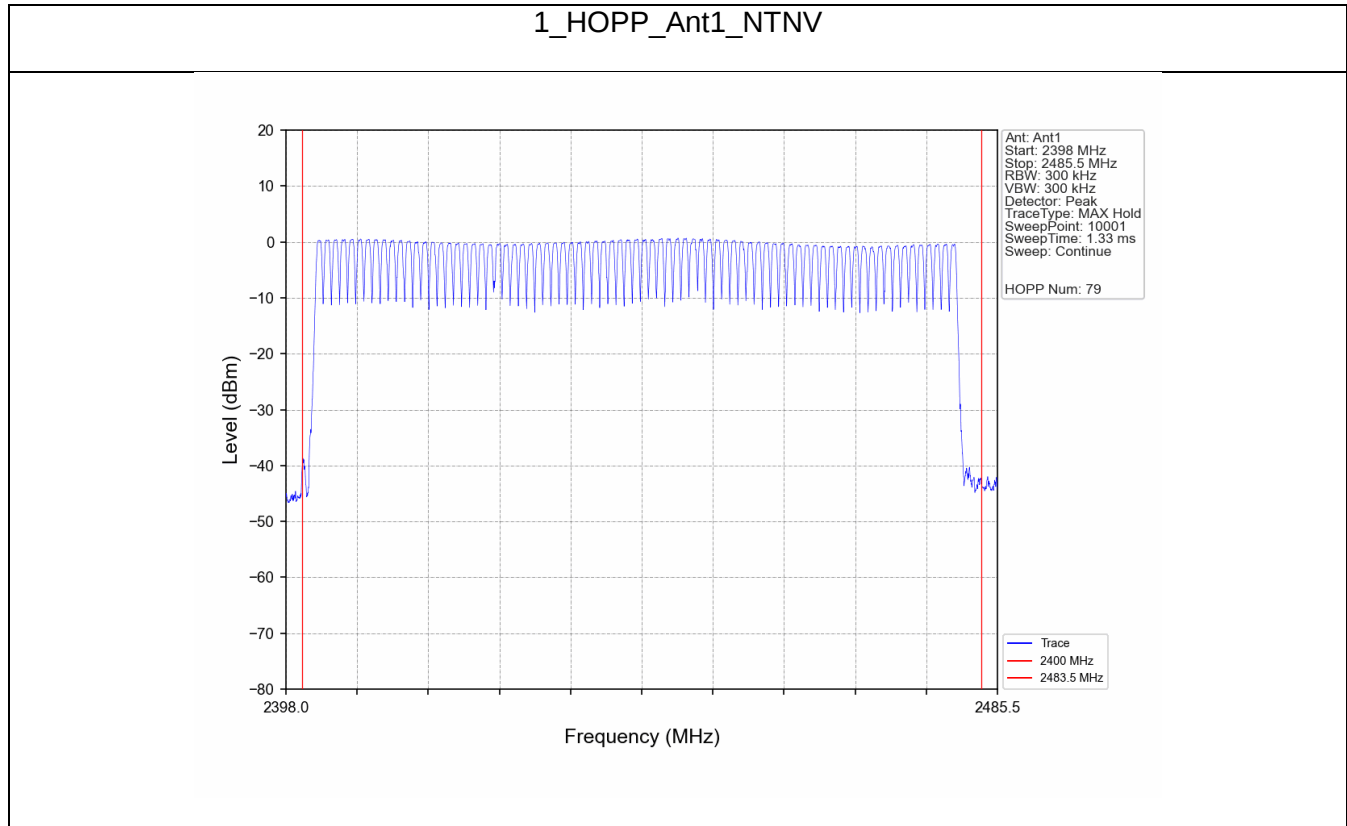
4.1.1 HoppNum

Mode	TX Type	Frequency (MHz)	Num of Hopping Frequencies		Verdict
			ANT1	Limit	
1	SISO	HOPP	79	≥ 15	Pass

FCCID: 2AZSQ-WA1

4.2 Test Graph

4.2.1 HoppNum



FCCID: 2AZSQ-WA1

5. Time of Occupancy (Dwell Time)

5.1 Test Result

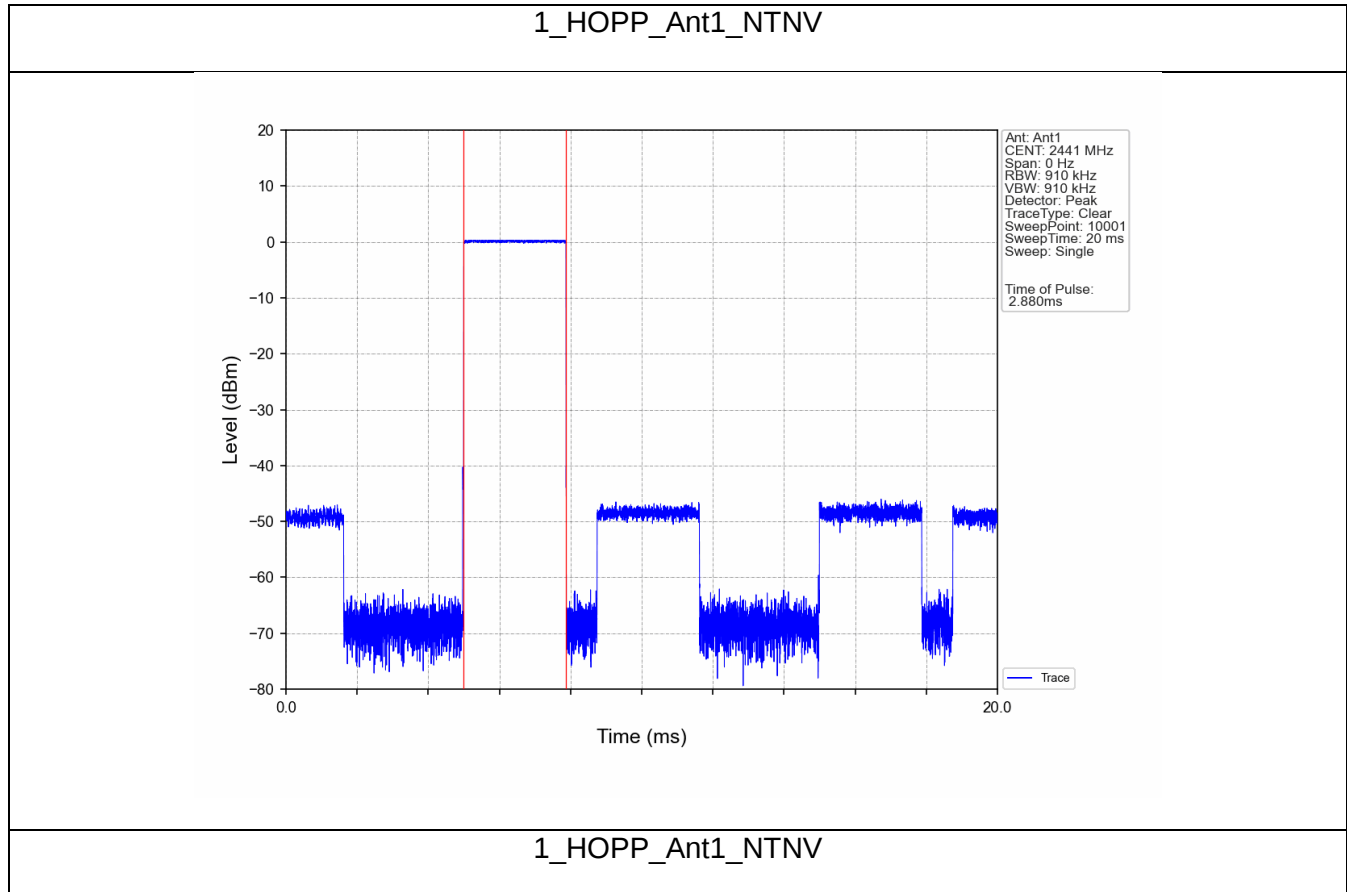
5.1.1 Ant1

Ant1								
Mode	TX Type	Frequency (MHz)	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
1	SISO	HOPP	2.880	31.600	76	218.880	<=400	Pass

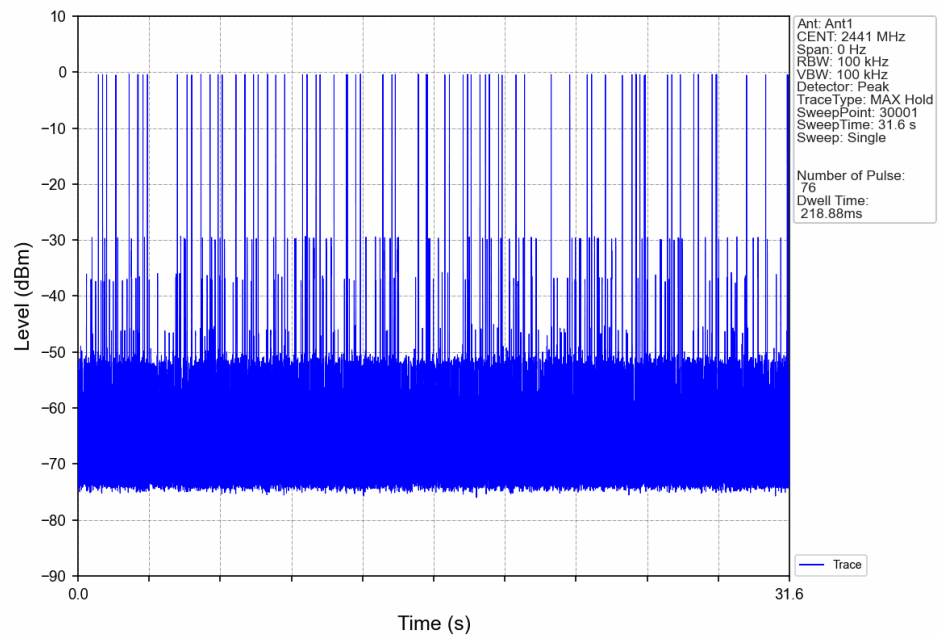
FCCID: 2AZSQ-WA1

5.2 Test Graph

5.2.1 Ant1



FCCID: 2AZSQ-WA1



FCCID: 2AZSQ-WA1

6. Unwanted Emissions In Non-restricted Frequency Bands

6.1 Test Result

6.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1	SISO	2402	1	0.10
		2441	1	0.17
		2480	1	-0.59
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.				

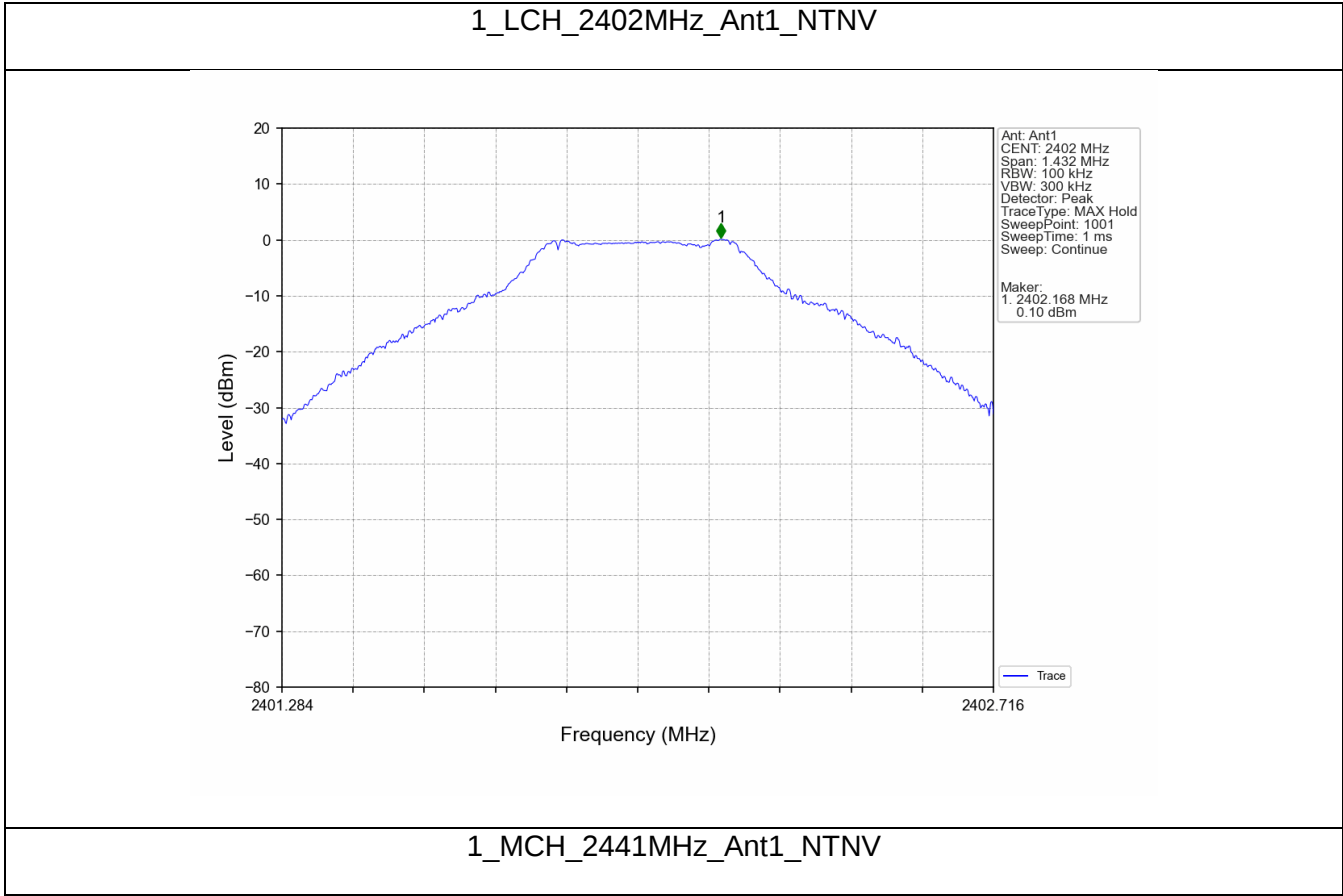
6.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1	SISO	2402	1	0.17	-19.83	Pass
		2441	1	0.17	-19.83	Pass
		2480	1	0.17	-19.83	Pass
		HOPP	1	0.17	-19.83	Pass
				0.17	-19.83	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.						

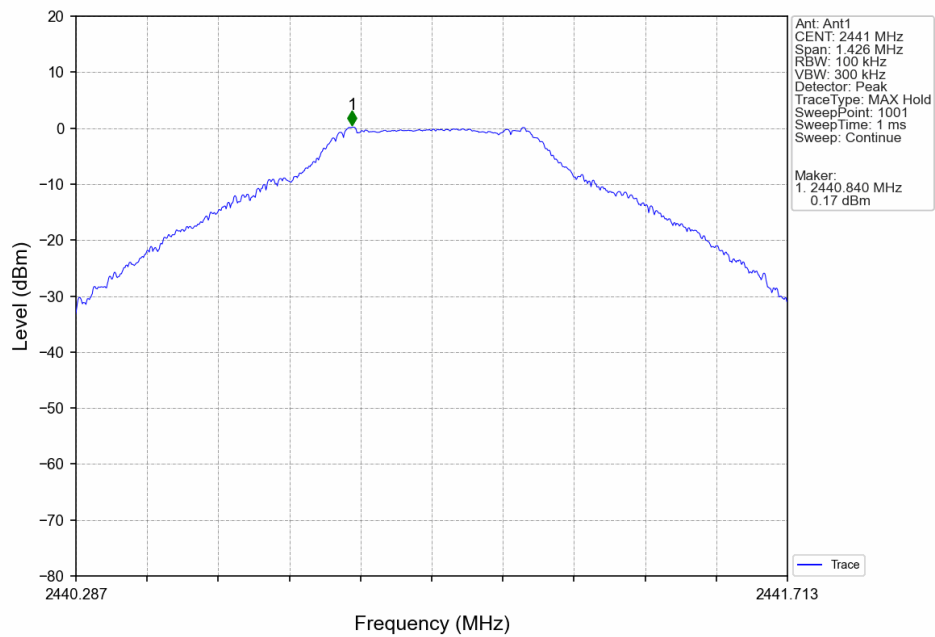
FCCID: 2AZSQ-WA1

6.2 Test Graph

6.2.1 Ref

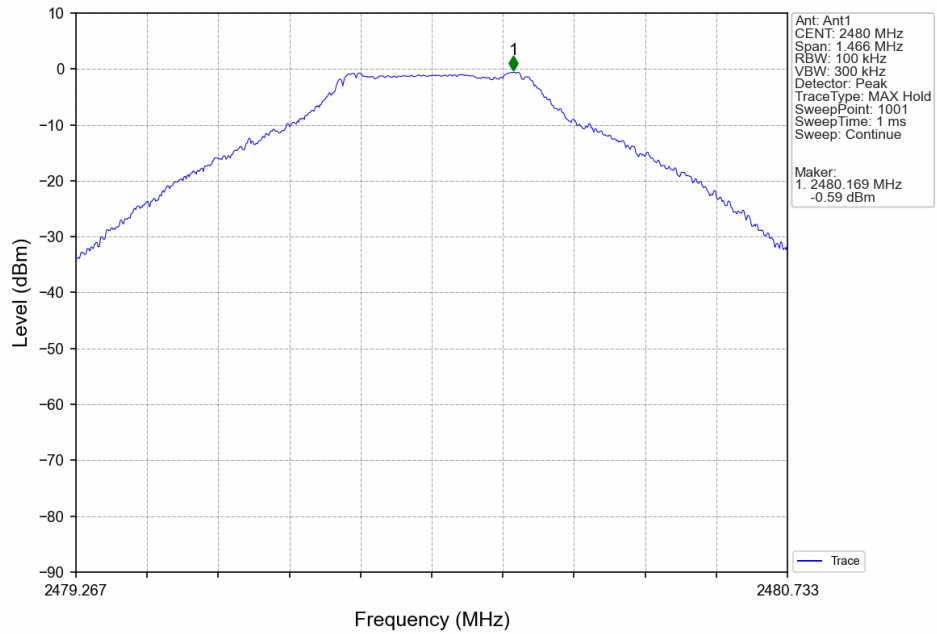


FCCID: 2AZSQ-WA1



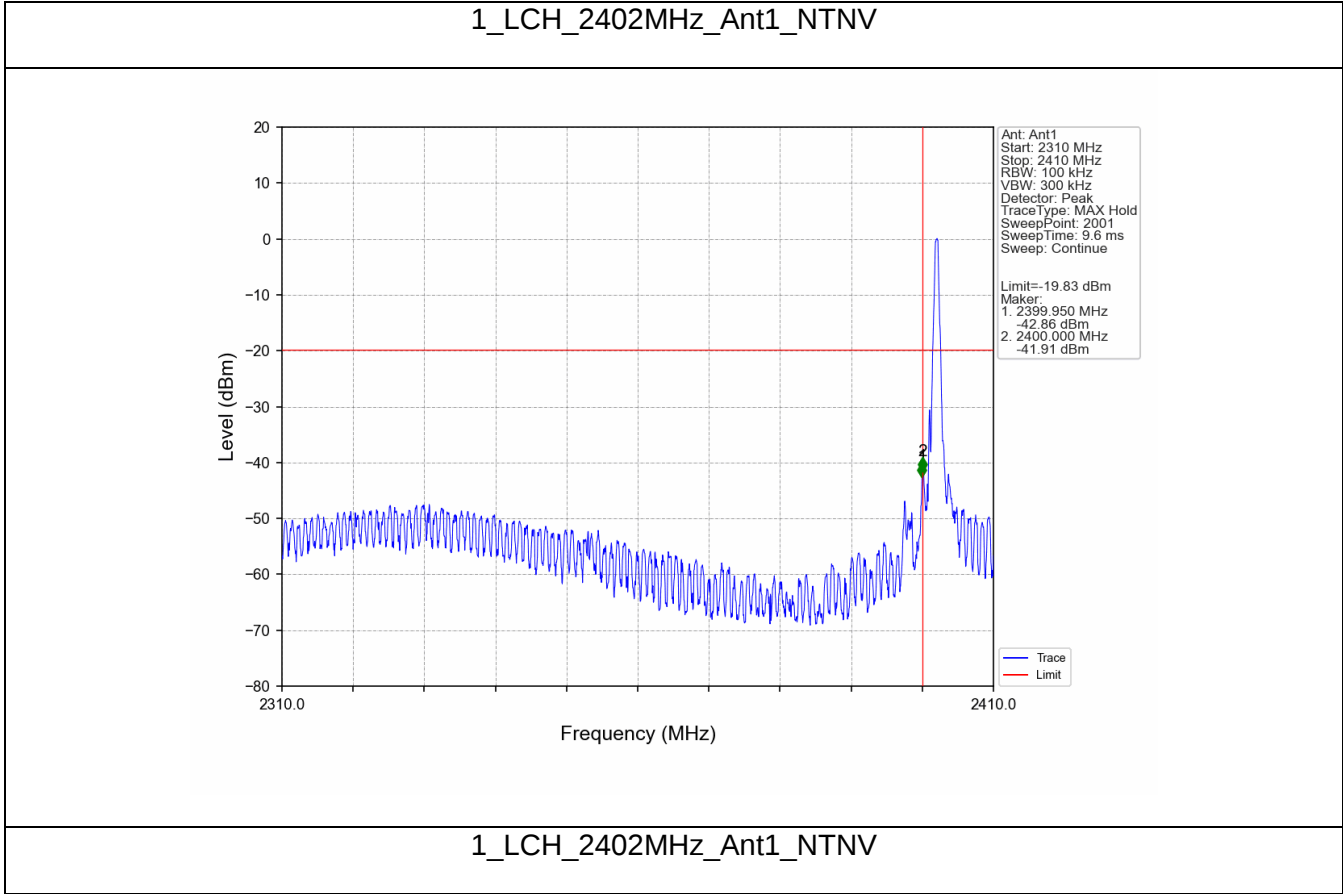
FCCID: 2AZSQ-WA1

1_HCH_2480MHz_Ant1_NTNV

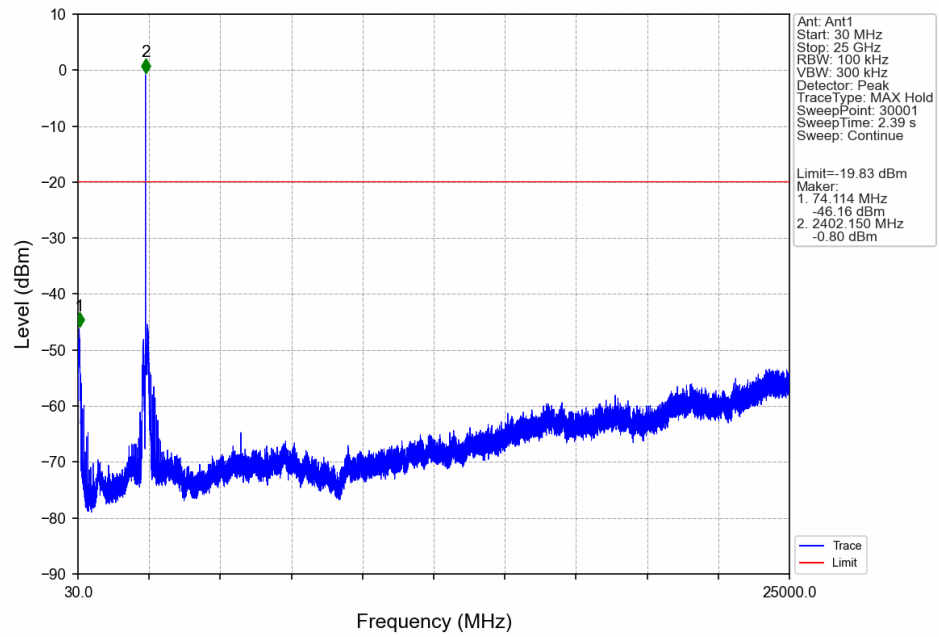


FCCID: 2AZSQ-WA1

6.2.2 CSE

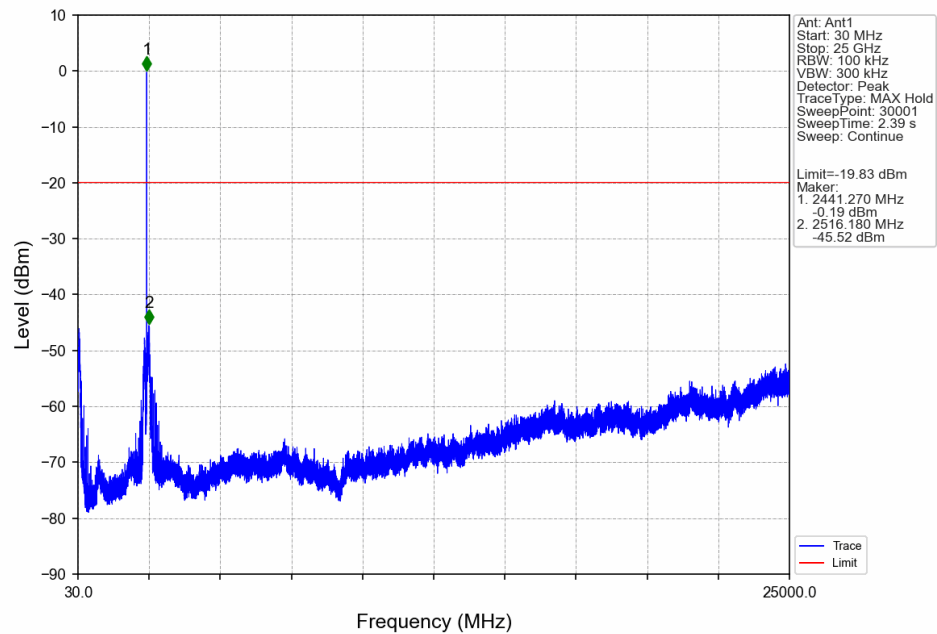


FCCID: 2AZSQ-WA1

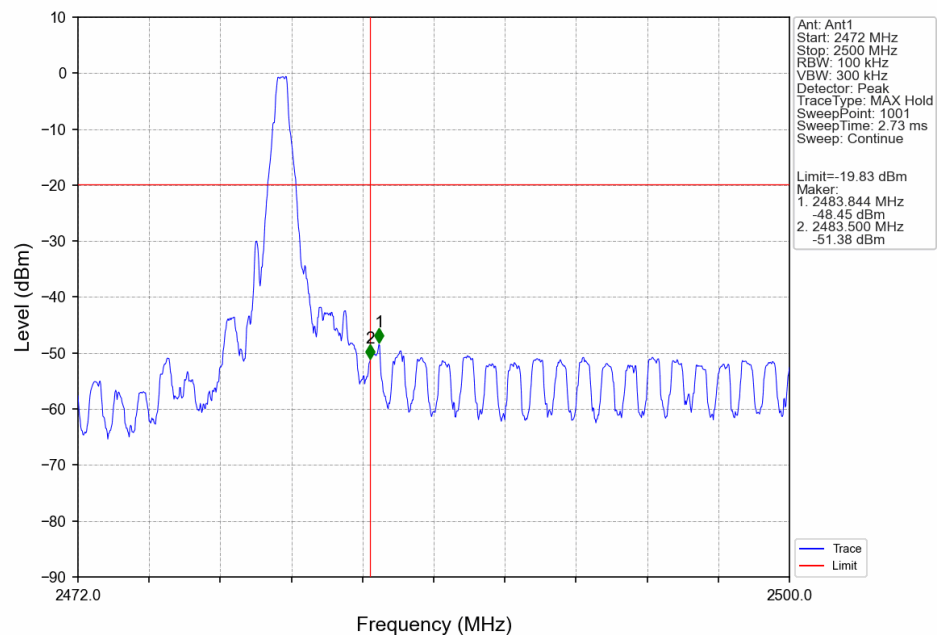


FCCID: 2AZSQ-WA1

1_MCH_2441MHz_Ant1_NTNV

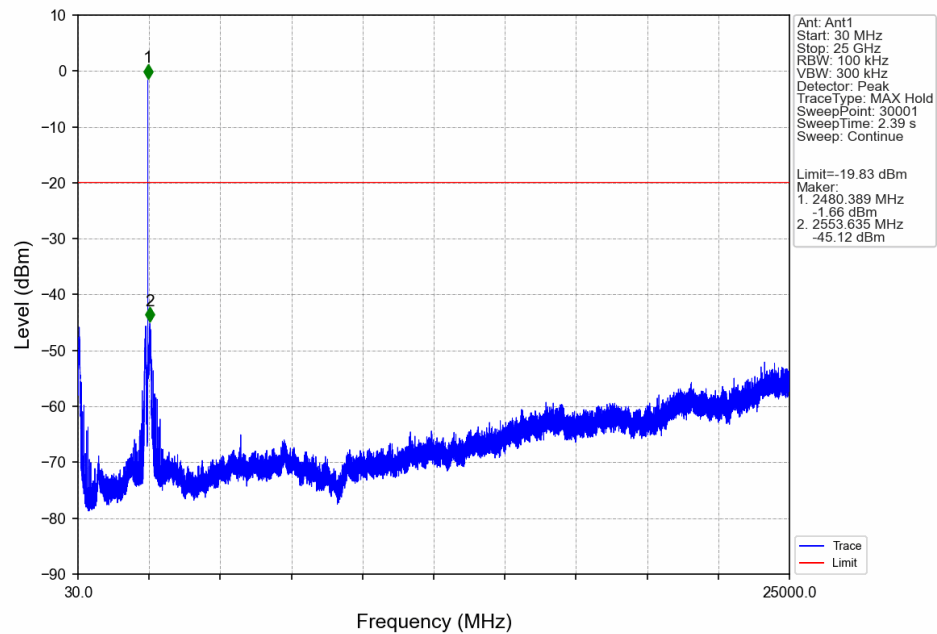


1_HCH_2480MHz_Ant1_NTNV

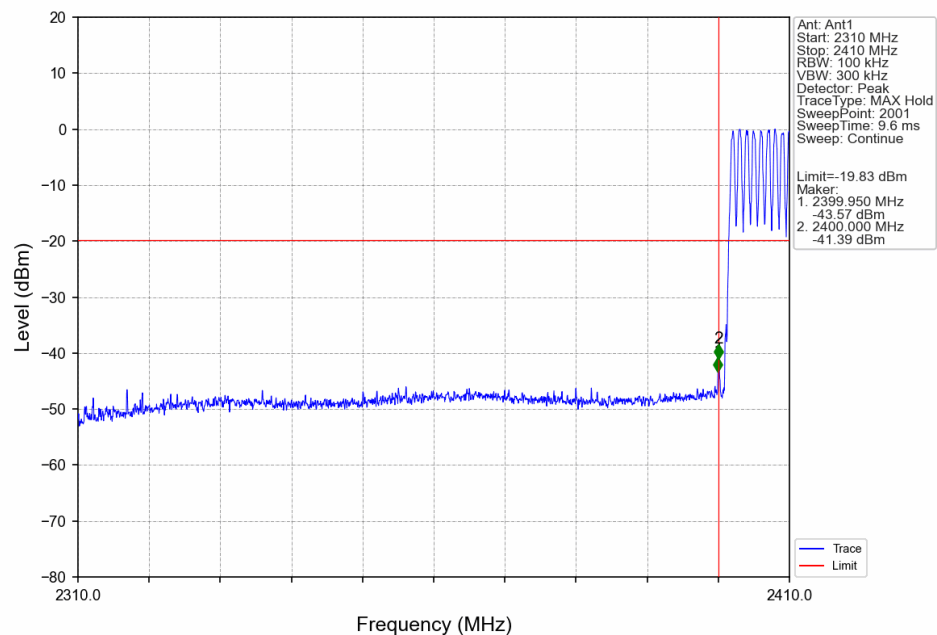


FCCID: 2AZSQ-WA1

1_HCH_2480MHz_Ant1_NTNV



1_HOPP_Ant1_NTNV



FCCID: 2AZSQ-WA1

