

FCCID: 2AYHD-SR01

3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11b	SISO	2412	14.45	14.56	/	<=30	Pass
		2437	14.52	14.14	/	<=30	Pass
		2462	14.03	13.26	/	<=30	Pass
802.11g	SISO	2412	13.24	13.21	/	<=30	Pass
		2437	14.48	13.11	/	<=30	Pass
		2462	13.56	13.45	/	<=30	Pass
802.11n (HT20)	SISO	2412	13.56	14.26	/	<=30	Pass
		2437	14.27	13.82	/	<=30	Pass
		2462	13.27	14.18	/	<=30	Pass
802.11n (HT40)	SISO	2422	14.17	14.66	/	<=30	Pass
		2437	14.45	14.23	/	<=30	Pass
		2452	14.16	14.22	/	<=30	Pass
802.11n (HT20)	MIMO	2412	13.24	14.64	17.01	<=27.11	Pass
		2437	14.14	14.33	17.25	<=27.11	Pass
		2462	13.23	14.69	17.03	<=27.11	Pass
802.11n (HT40)	MIMO	2422	14.32	15.15	17.77	<=27.11	Pass
		2437	14.51	14.66	17.60	<=27.11	Pass
		2452	14.37	14.67	17.53	<=27.11	Pass
Note1: Antenna Gain: Ant1: 5.88dBi; Ant2: 5.86dBi; Note2: Directional Gain: Band1: 8.89dBi							

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4. Maximum Power Spectral Density

4.1 Test Result

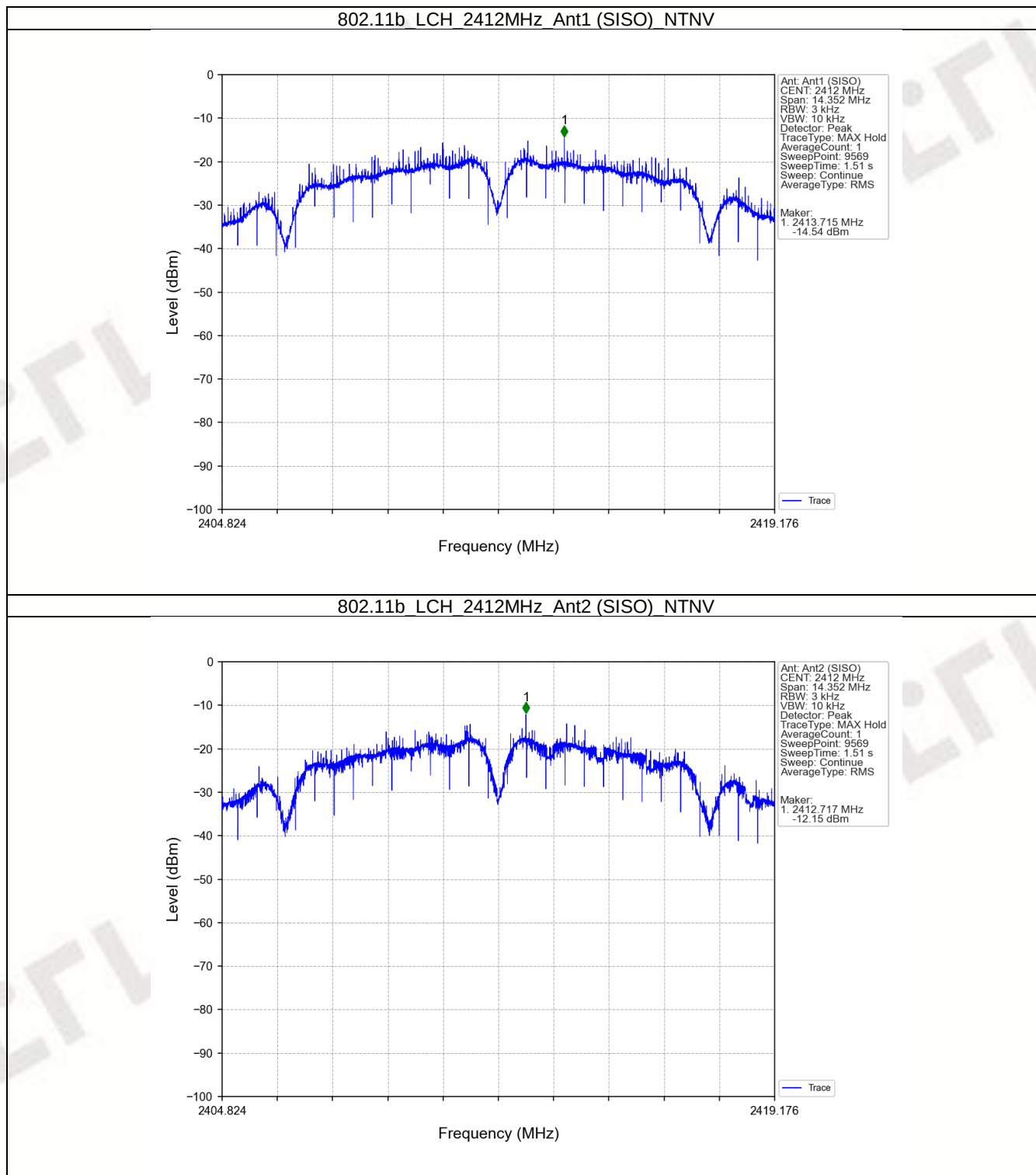
4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11b	SISO	2412	-14.54	-12.15	/	<=8	Pass
		2437	-12.71	-14.15	/	<=8	Pass
		2462	-13.40	-1.46	/	<=8	Pass
802.11g	SISO	2412	-20.41	-20.87	/	<=8	Pass
		2437	-18.72	-20.50	/	<=8	Pass
		2462	-20.93	-20.99	/	<=8	Pass
802.11n (HT20)	SISO	2412	-20.02	-19.97	/	<=8	Pass
		2437	-16.60	-20.65	/	<=8	Pass
		2462	-20.41	-19.12	/	<=8	Pass
802.11n (HT40)	SISO	2422	-21.97	-21.84	/	<=8	Pass
		2437	-21.90	-22.44	/	<=8	Pass
		2452	-20.47	-20.41	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-20.58	-18.56	-17.57	<=8	Pass
		2437	-20.04	-18.74	-17.67	<=8	Pass
		2462	-20.38	-19.39	-17.54	<=8	Pass
802.11n (HT40)	MIMO	2422	-21.09	-21.64	-19.25	<=8	Pass
		2437	-21.32	-21.77	-19.70	<=8	Pass
		2452	-21.84	-22.04	-19.86	<=8	Pass
Note1: Antenna Gain: Ant1: 5.88dBi; Ant2: 5.86dBi; Note2: Directional Gain: Band1: 8.89dBi							

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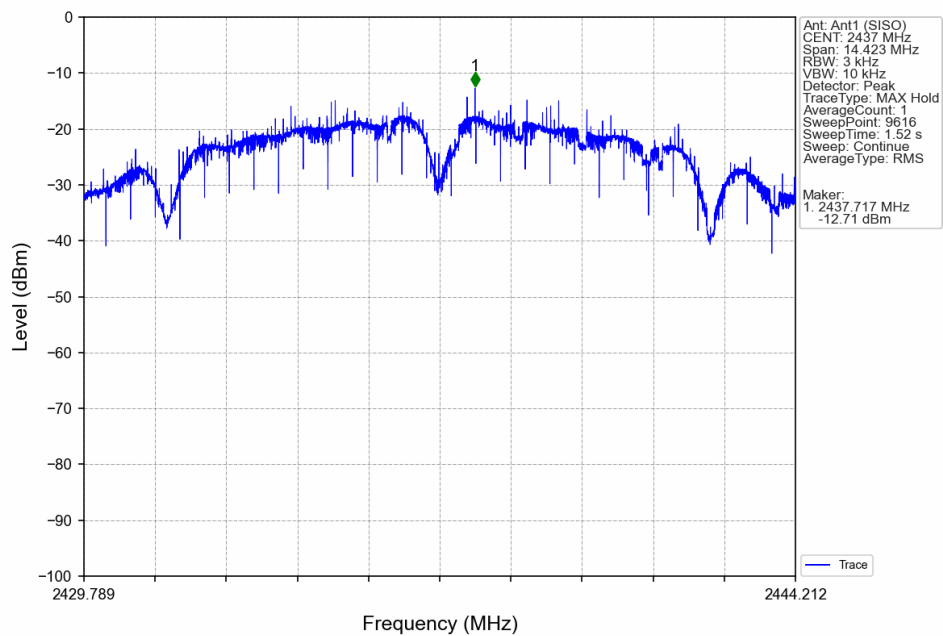
4.2 Test Graph

4.2.1 PSD

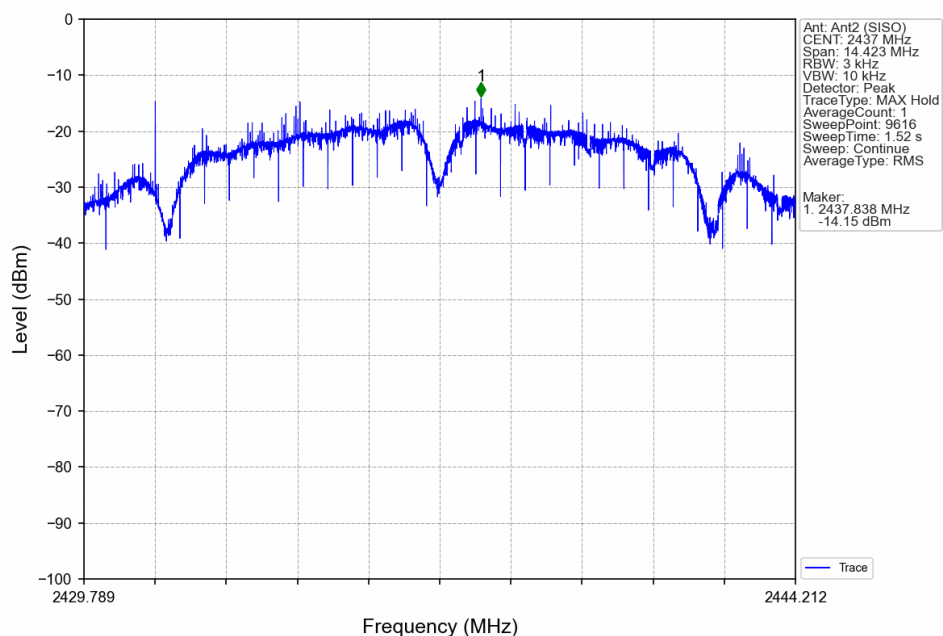


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802.11b MCH 2437MHz Ant1 (SISO) NTN

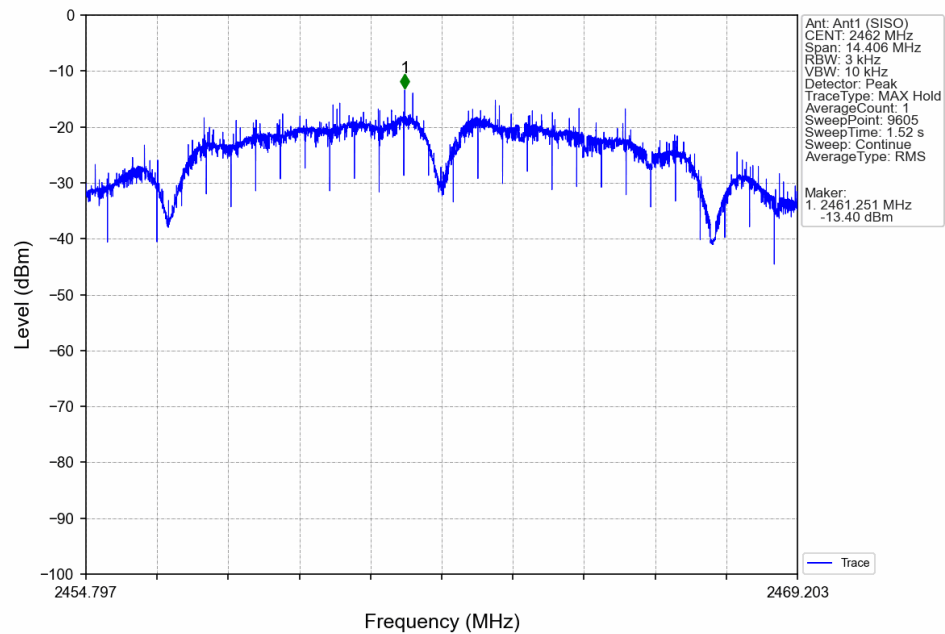


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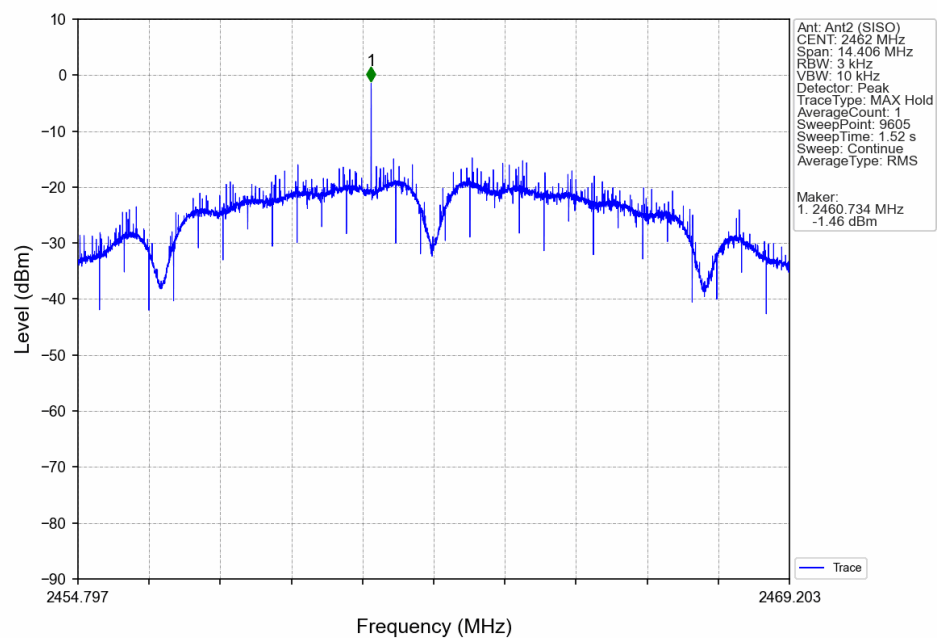


FCCID: 2AYHD-SR01

802.11b HCH 2462MHz Ant1 (SISO) NTN

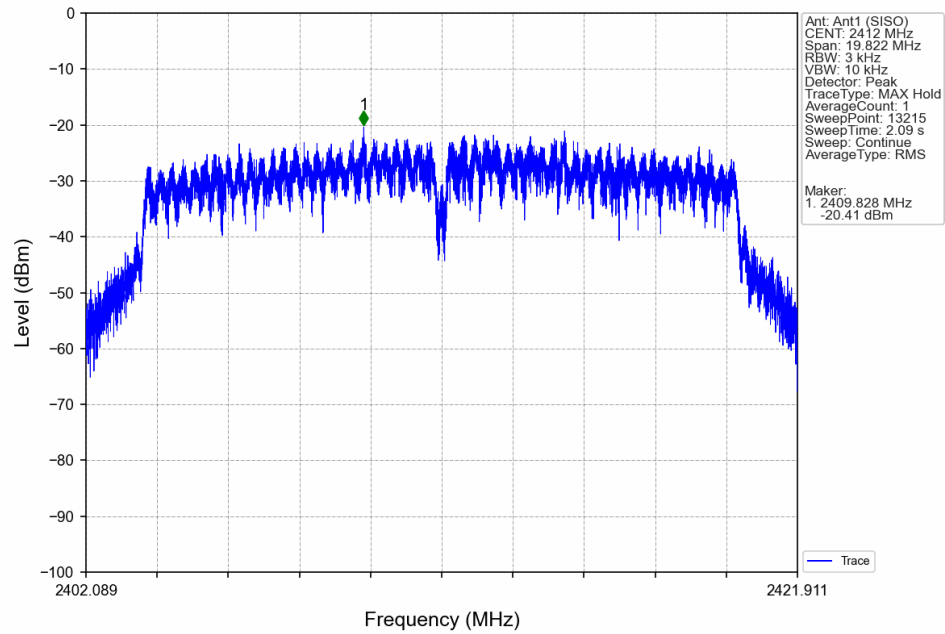


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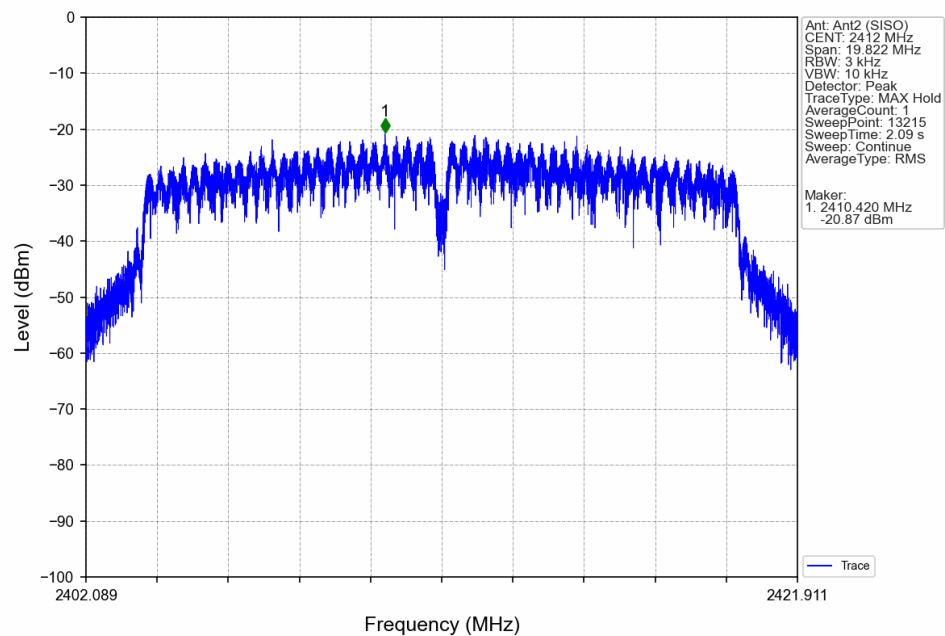


FCCID: 2AYHD-SR01

802.11g LCH 2412MHz Ant1 (SISO) NTN

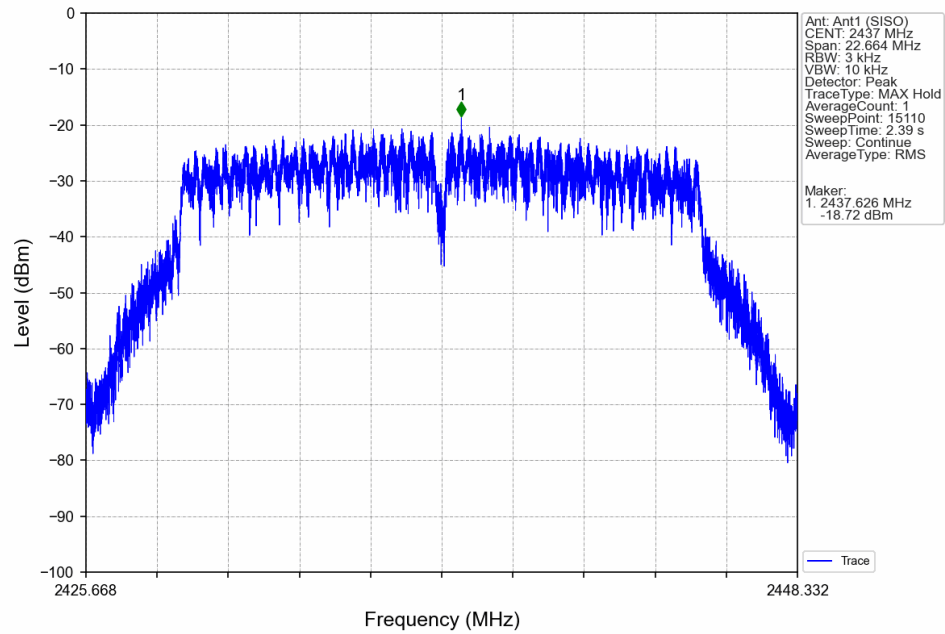


802.11g LCH 2412MHz Ant2 (SISO) NTN

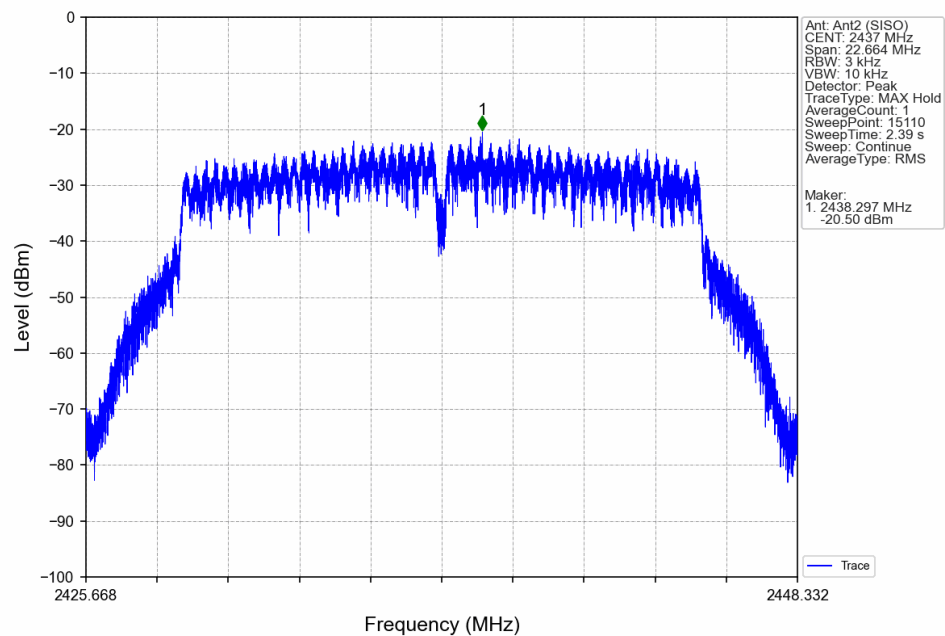


FCCID: 2AYHD-SR01

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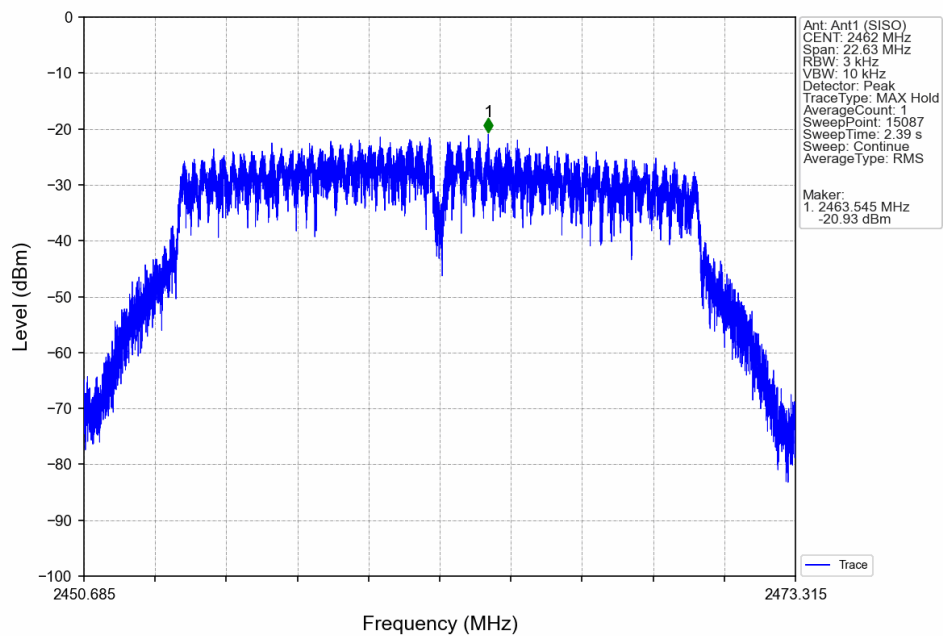


802.11g MCH 2437MHz Ant2 (SISO) NTNV

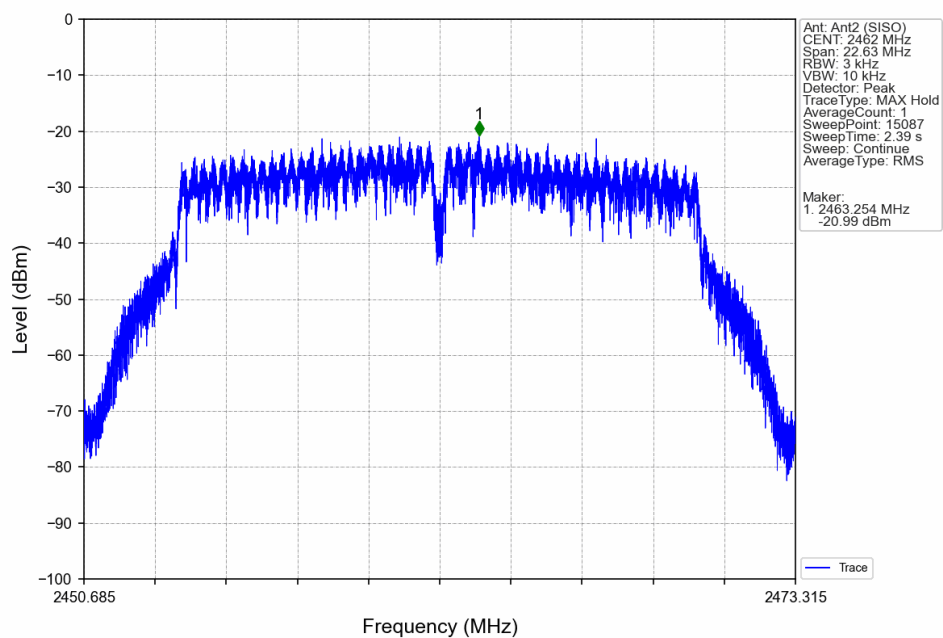


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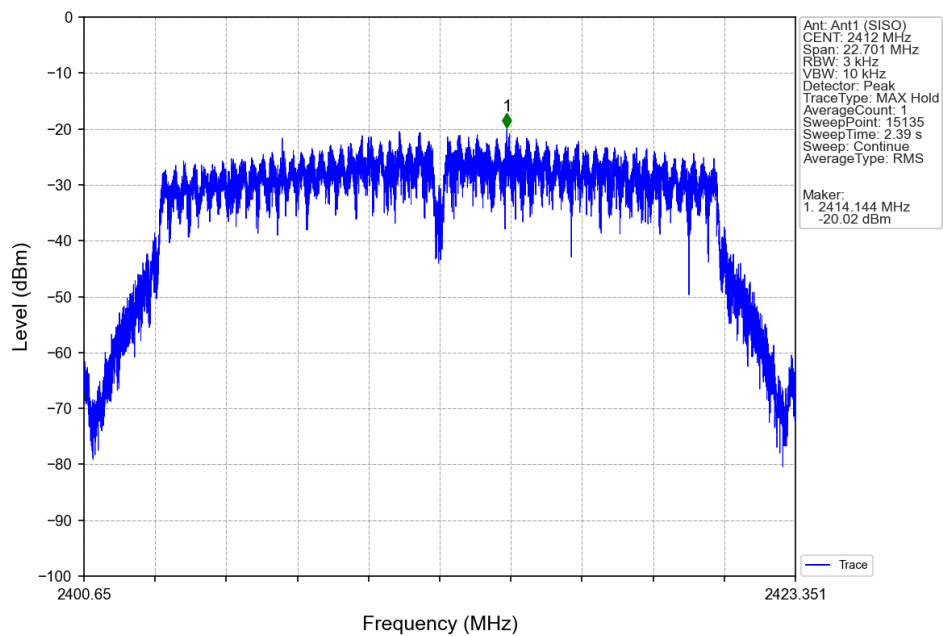


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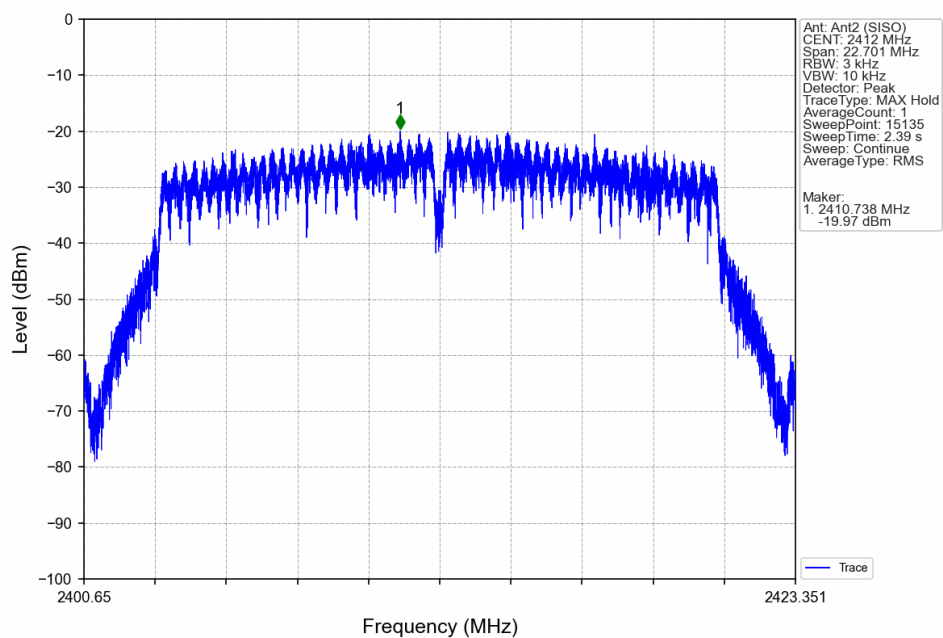


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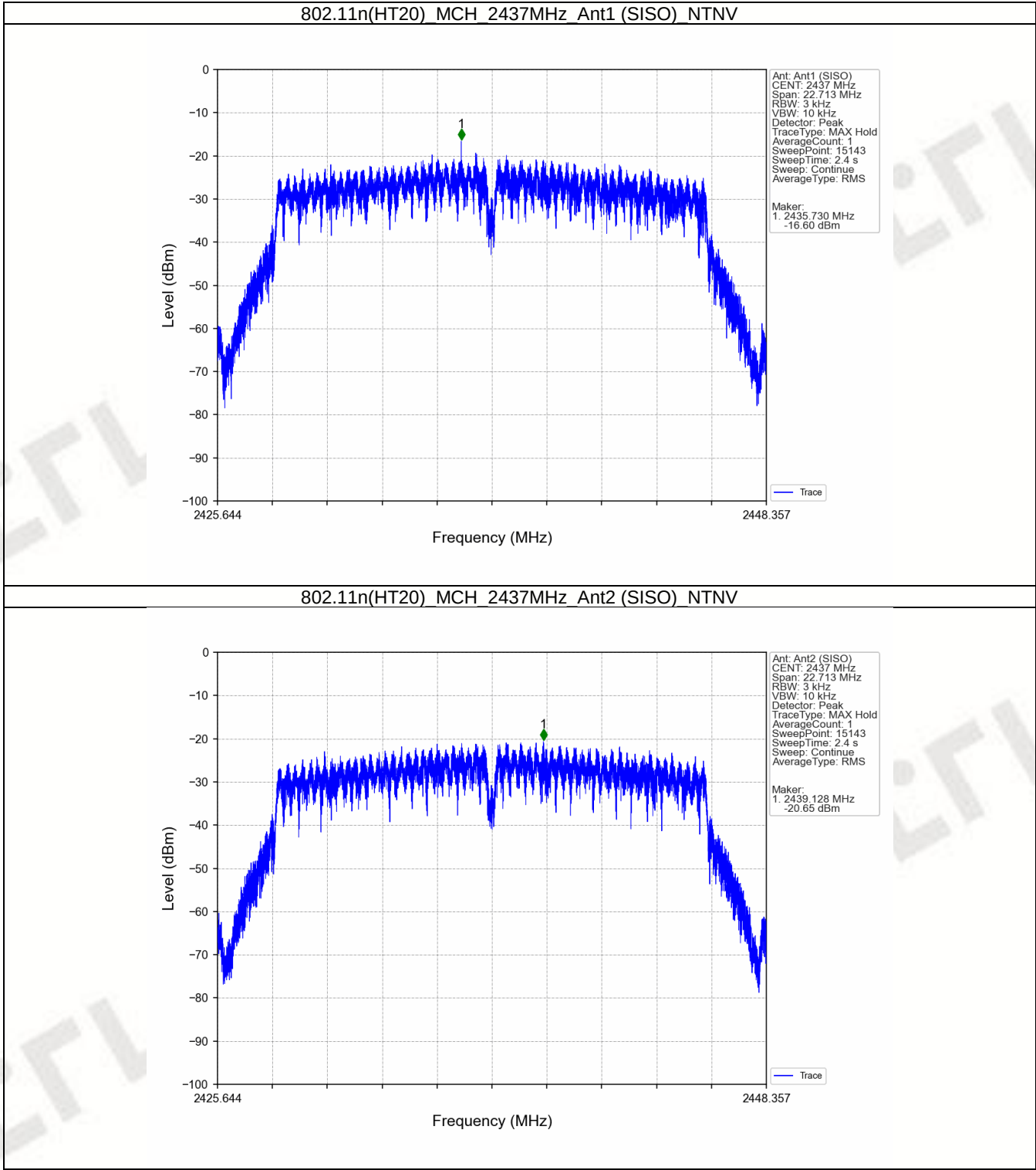
802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTV



802.11n(HT20) LCH 2412MHz Ant2 (SISO) NTV

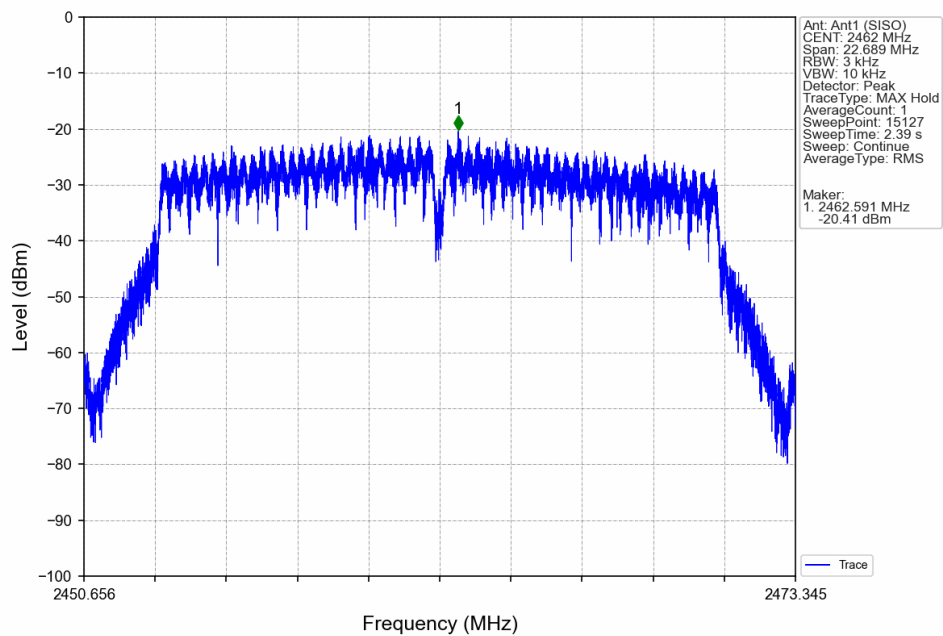


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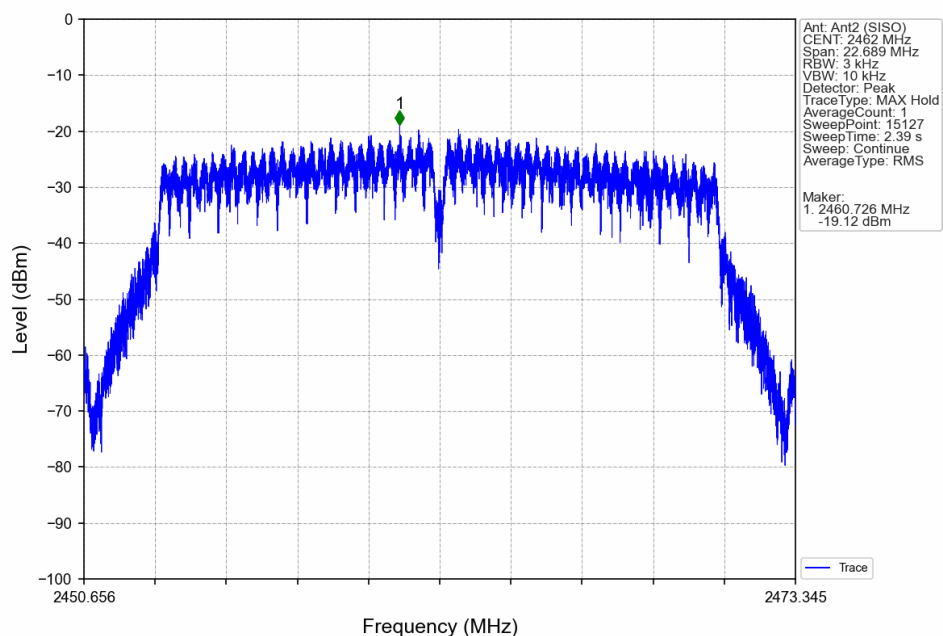


FCCID: 2AYHD-SR01

802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV

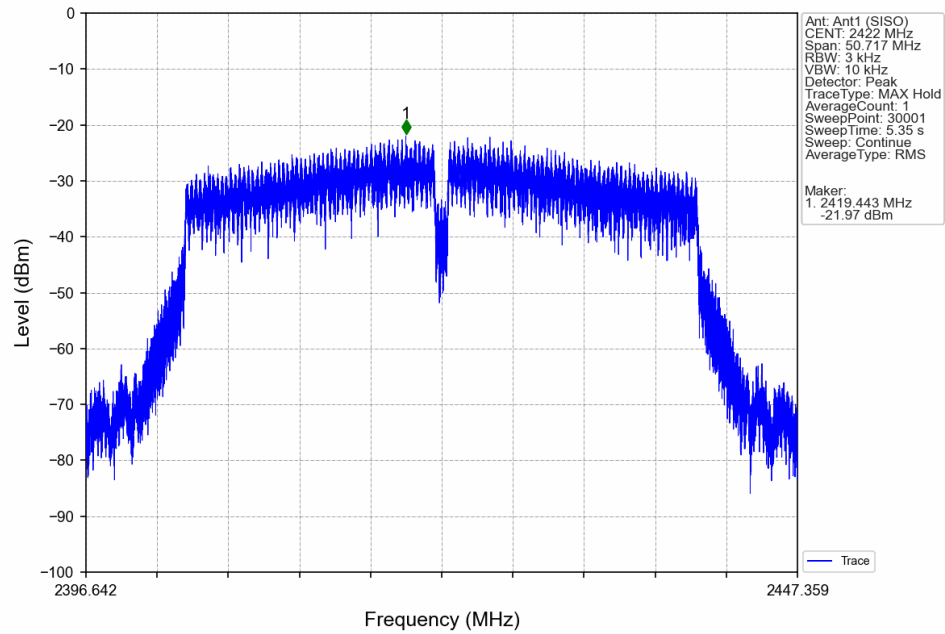


802.11n(HT20) HCH 2462MHz Ant2 (SISO) NTNV

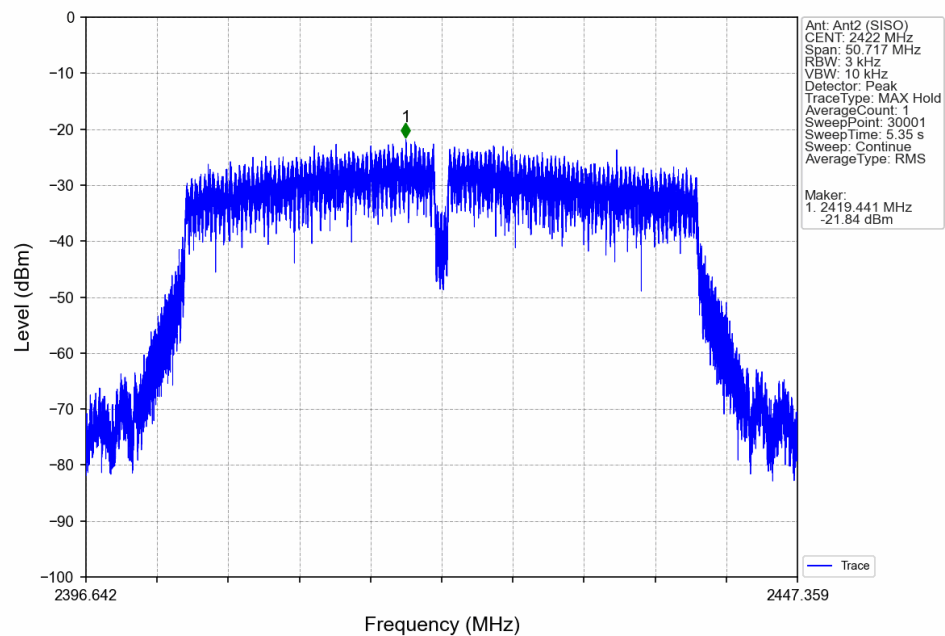


FCCID: 2AYHD-SR01

802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTNV

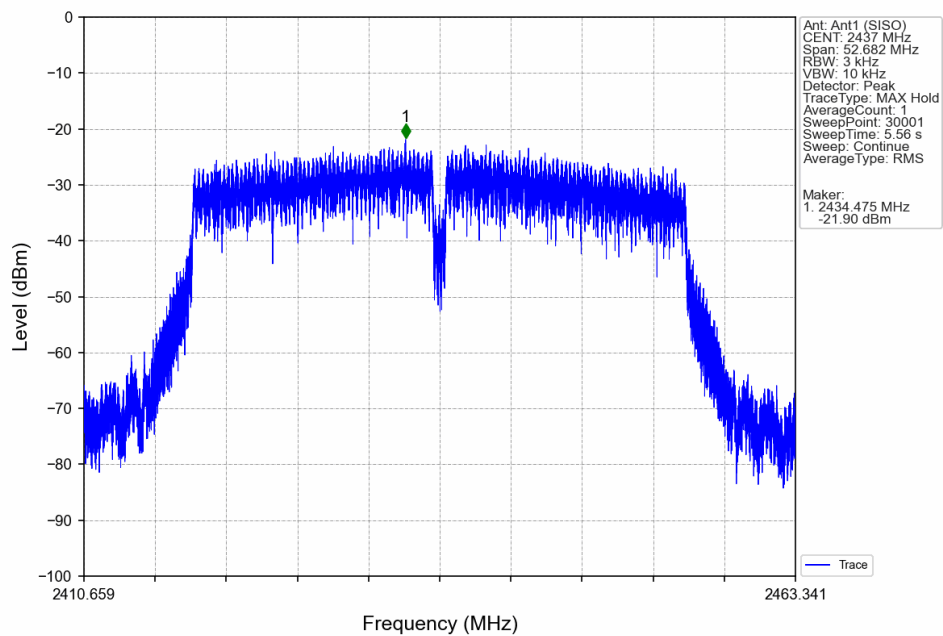


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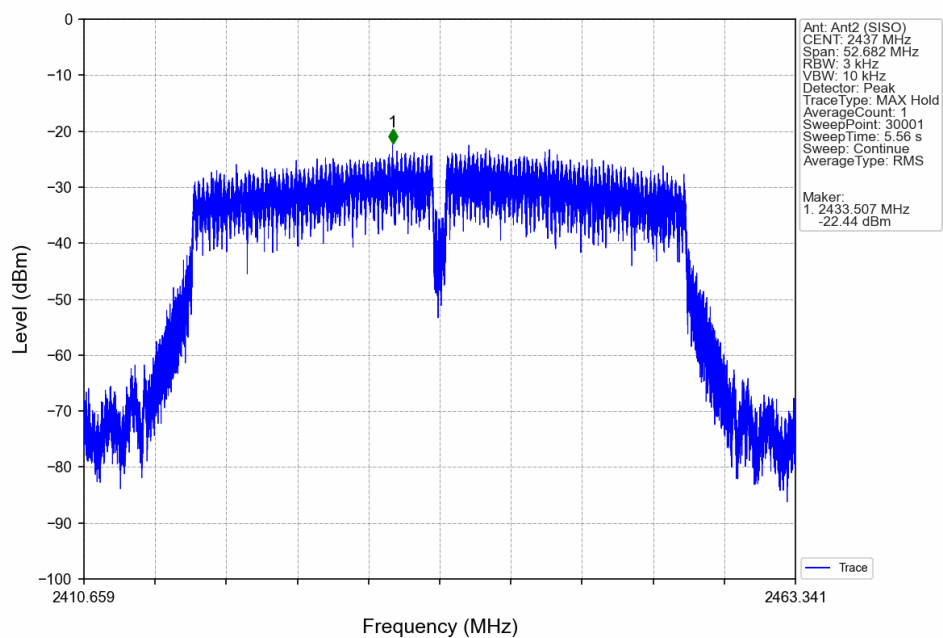


FCCID: 2AYHD-SR01

802.11n(HT40) MCH 2437MHz Ant1 (SISO) NTNV

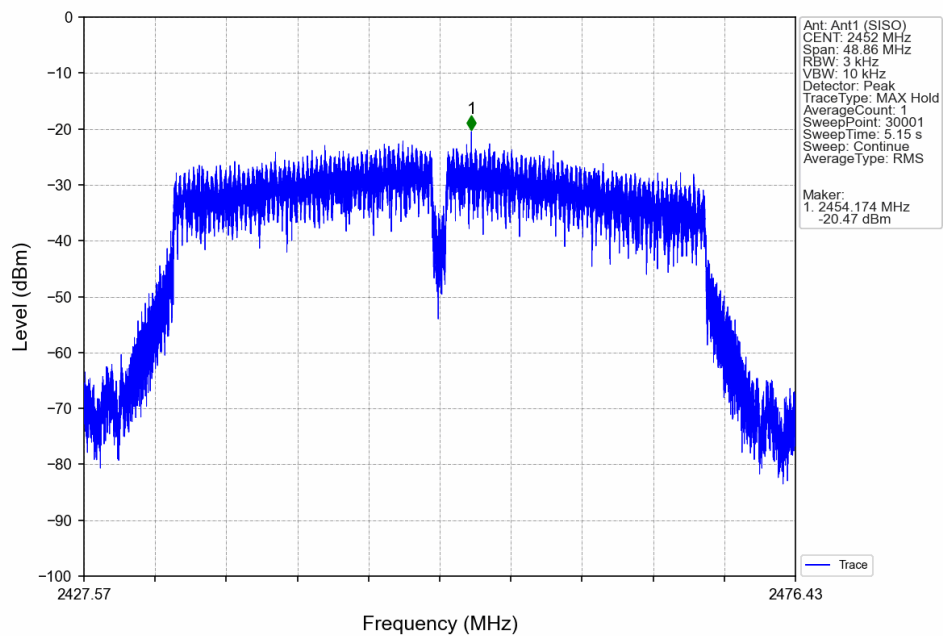


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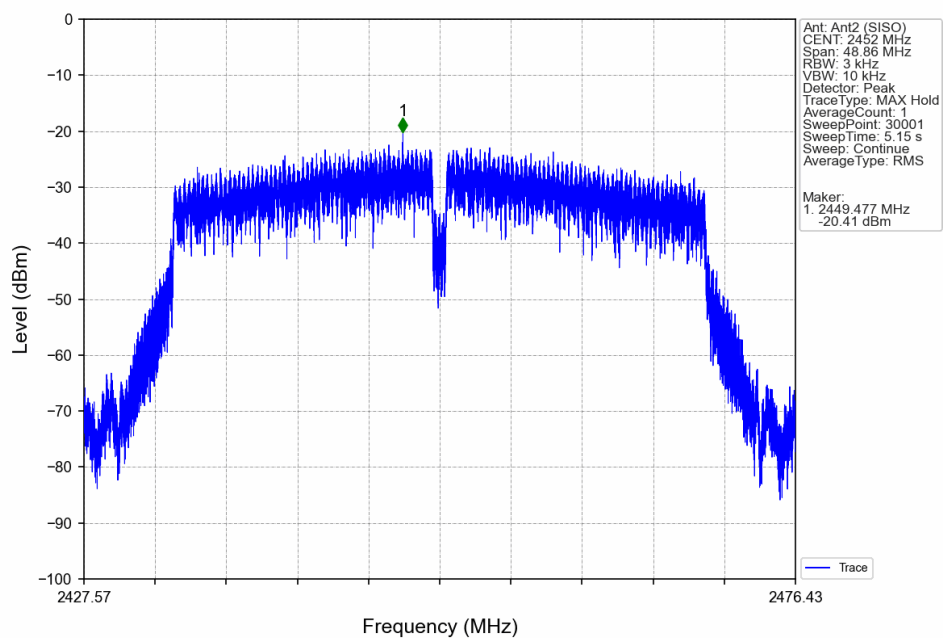


FCCID: 2AYHD-SR01

802.11n(HT40) HCH 2452MHz Ant1 (SISO) NTNV

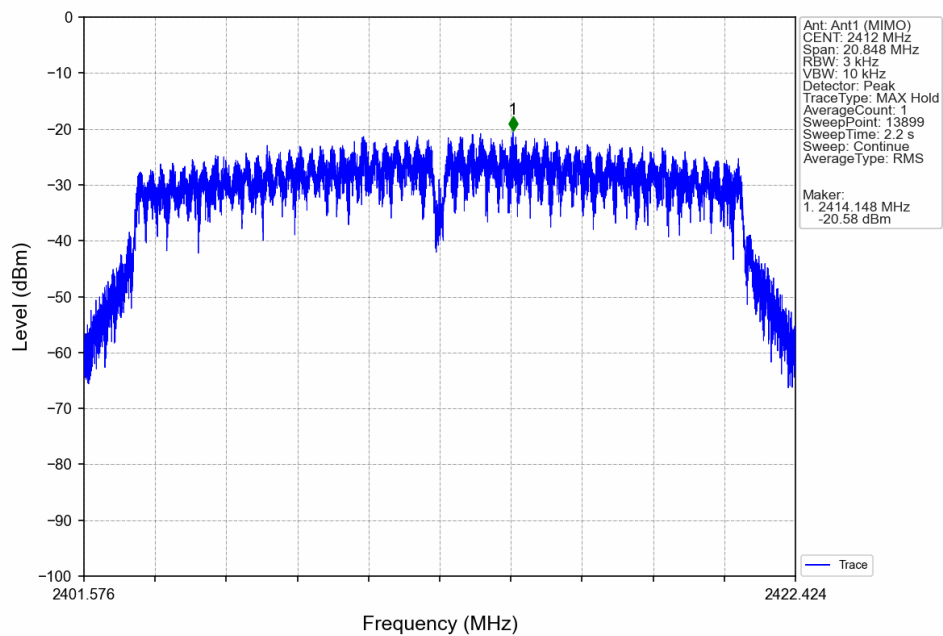


802.11n(HT40) HCH 2452MHz Ant2 (SISO) NTNV

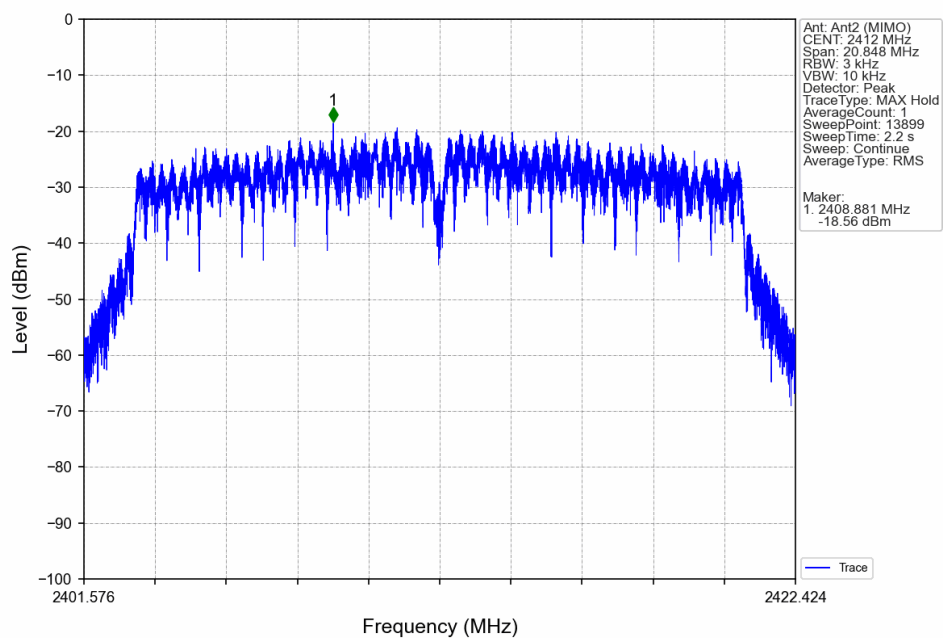


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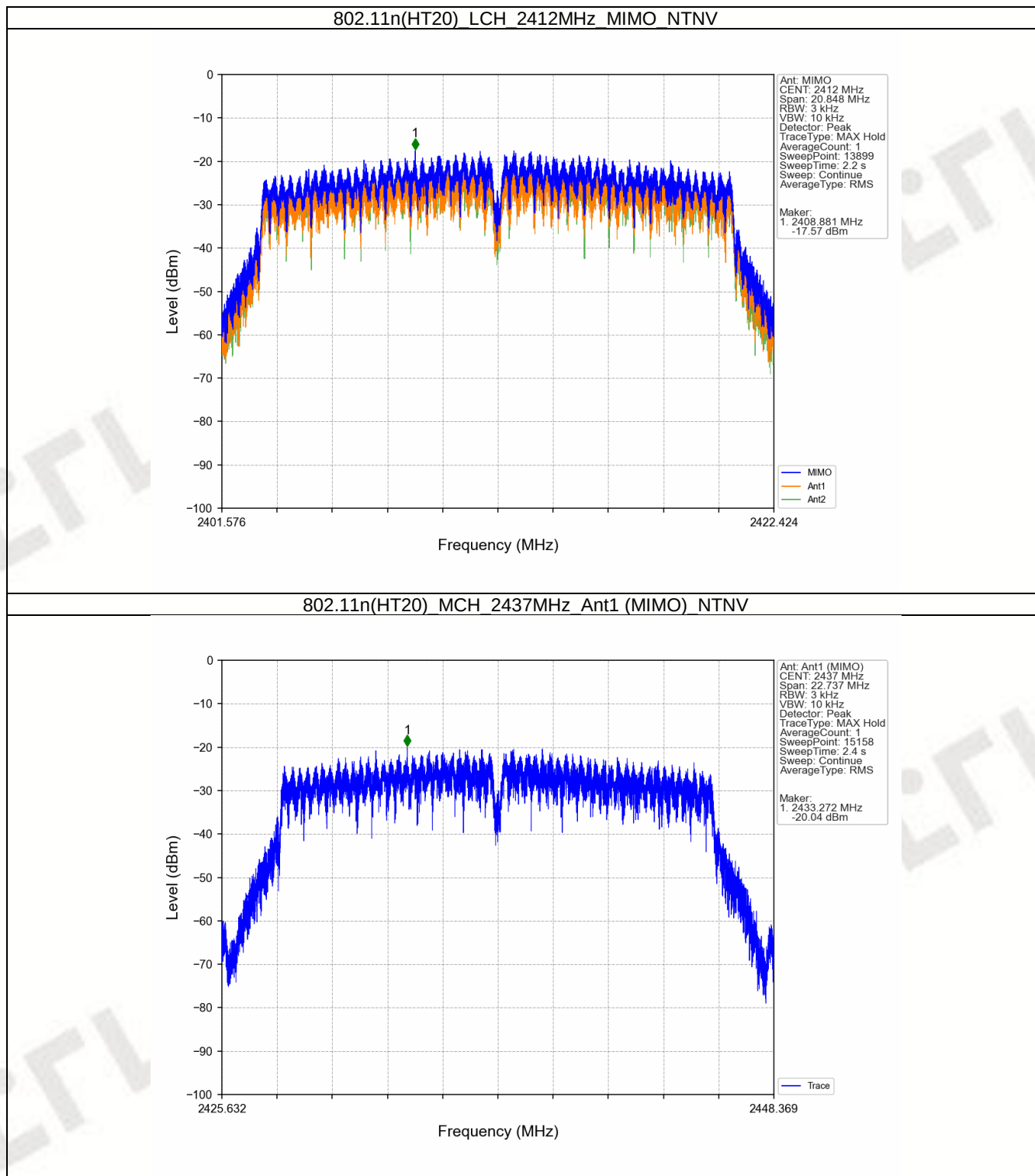
802.11n(HT20) LCH 2412MHz Ant1 (MIMO) NTNV



802.11n(HT20) LCH 2412MHz Ant2 (MIMO) NTNV

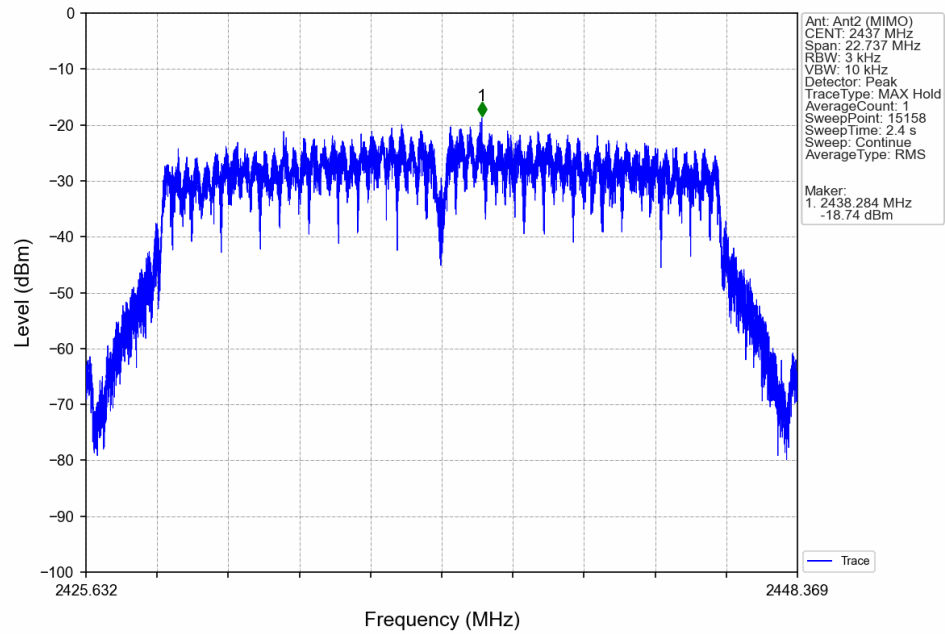


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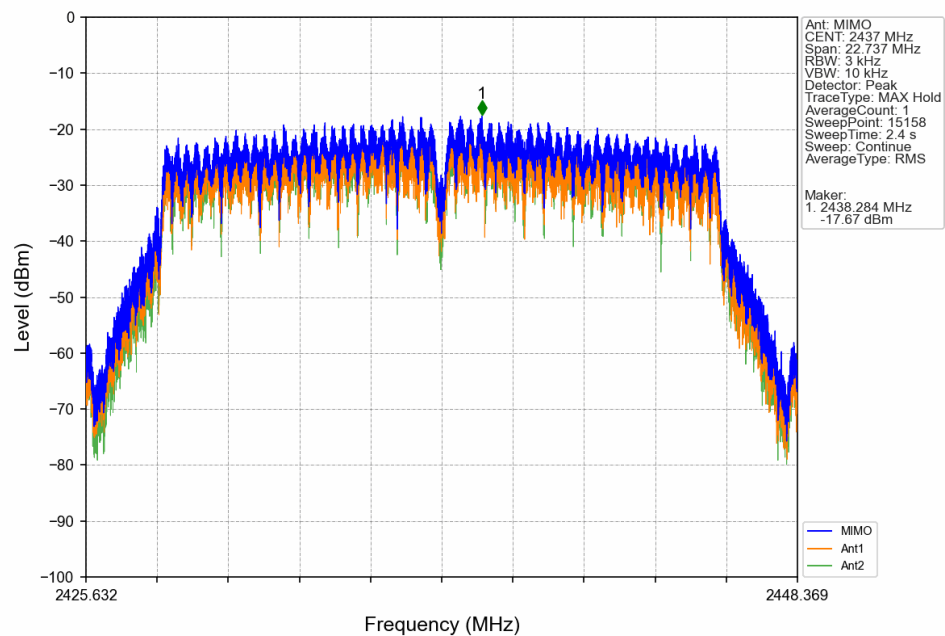


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802.11n(HT20) MCH 2437MHz Ant2 (MIMO) NTNV

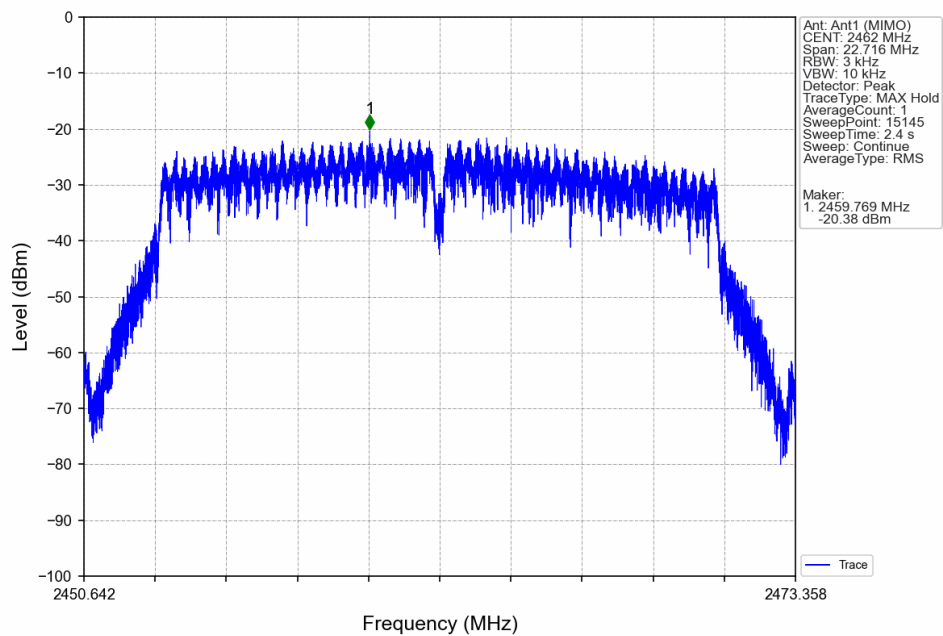


802.11n(HT20) MCH 2437MHz MIMO NTNV

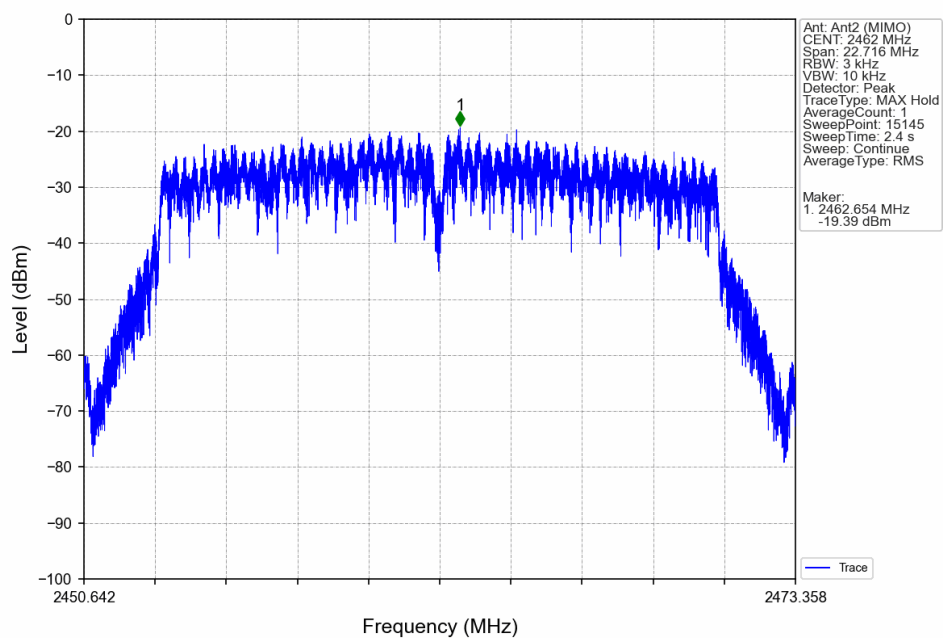


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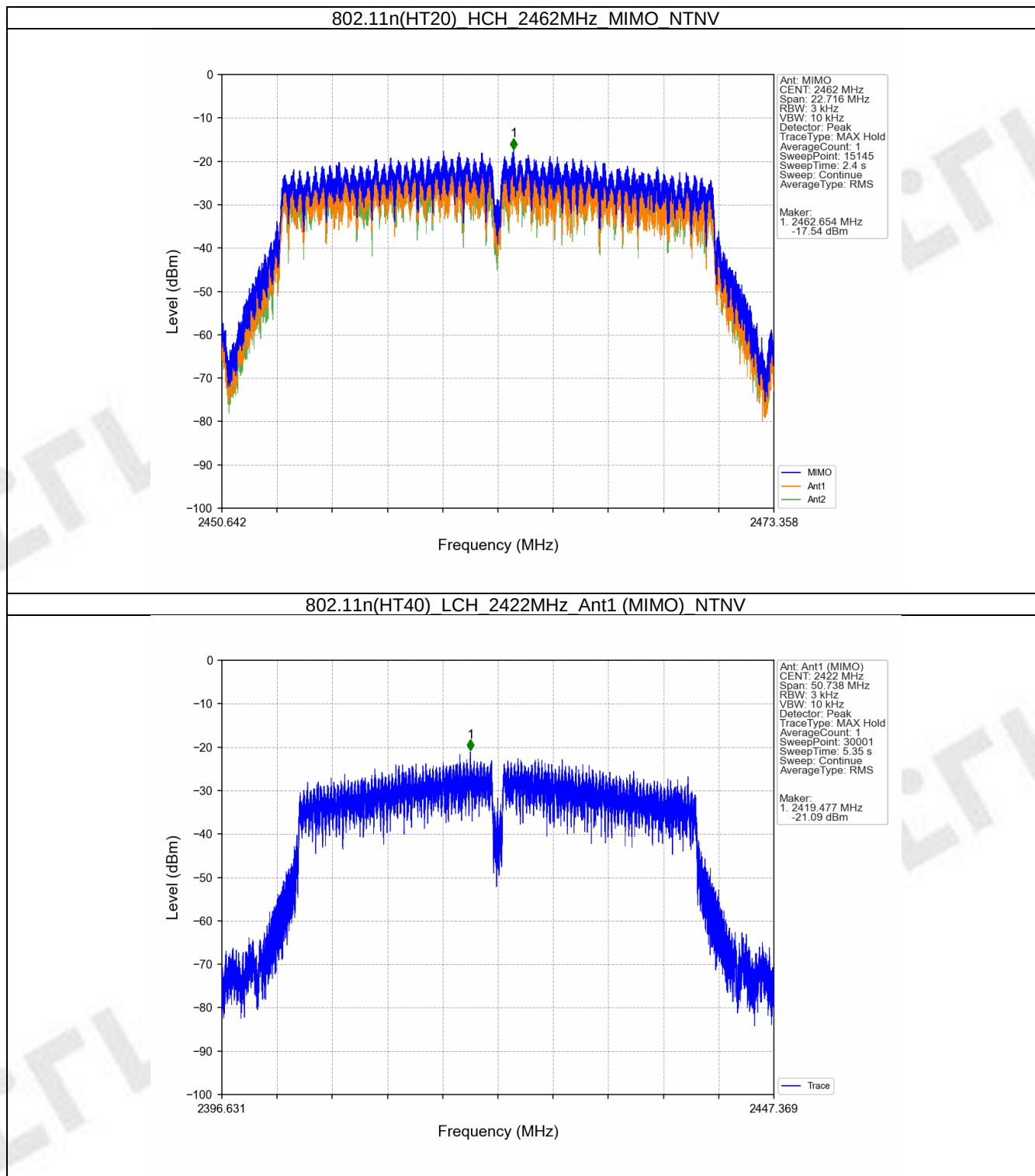
802.11n(HT20) HCH 2462MHz Ant1 (MIMO) NTNV



802.11n(HT20) HCH 2462MHz Ant2 (MIMO) NTNV

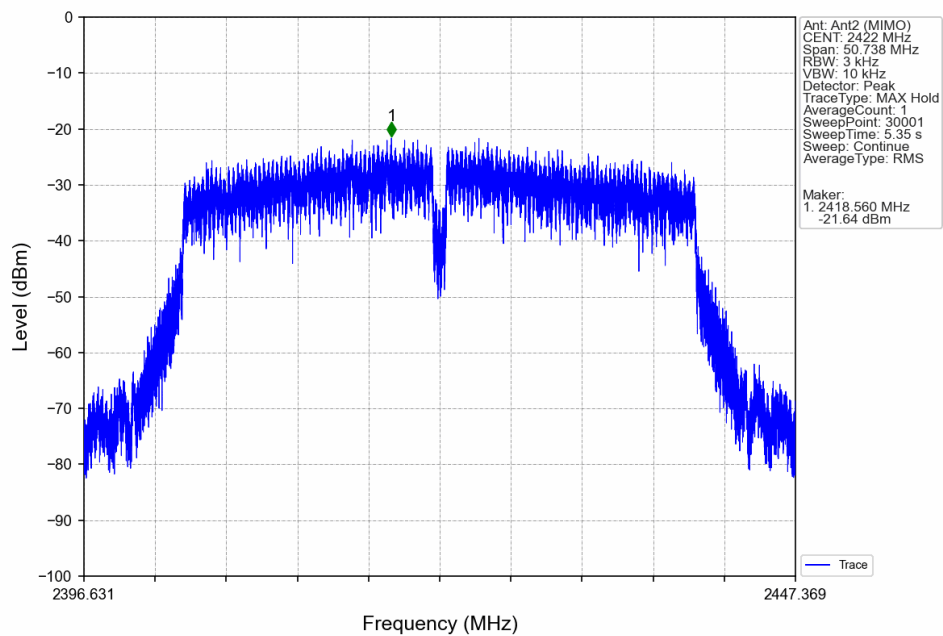


FCCID: 2AYHD-SR01

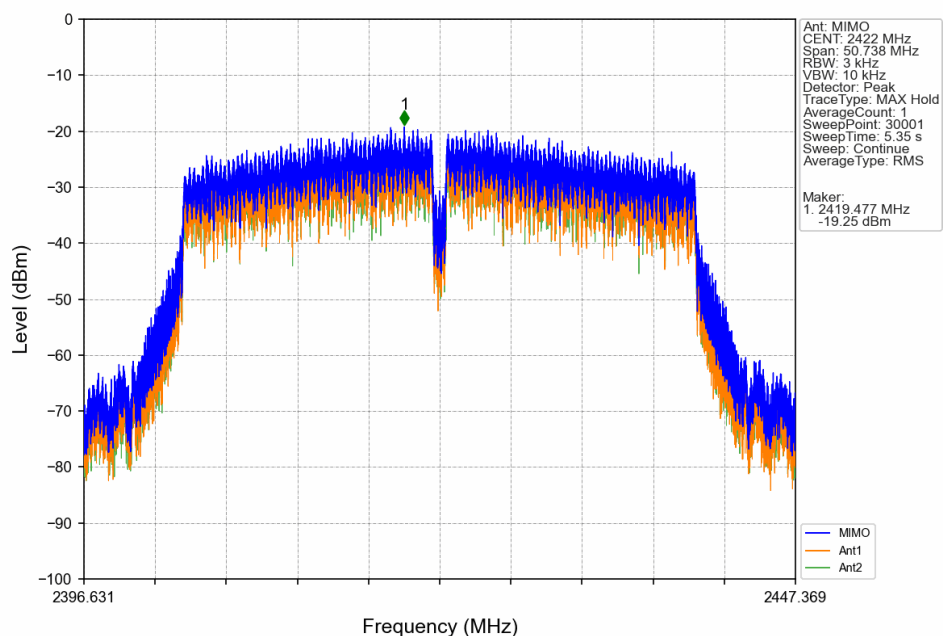


FCCID: 2AYHD-SR01

802.11n(HT40) LCH 2422MHz Ant2 (MIMO) NTNV

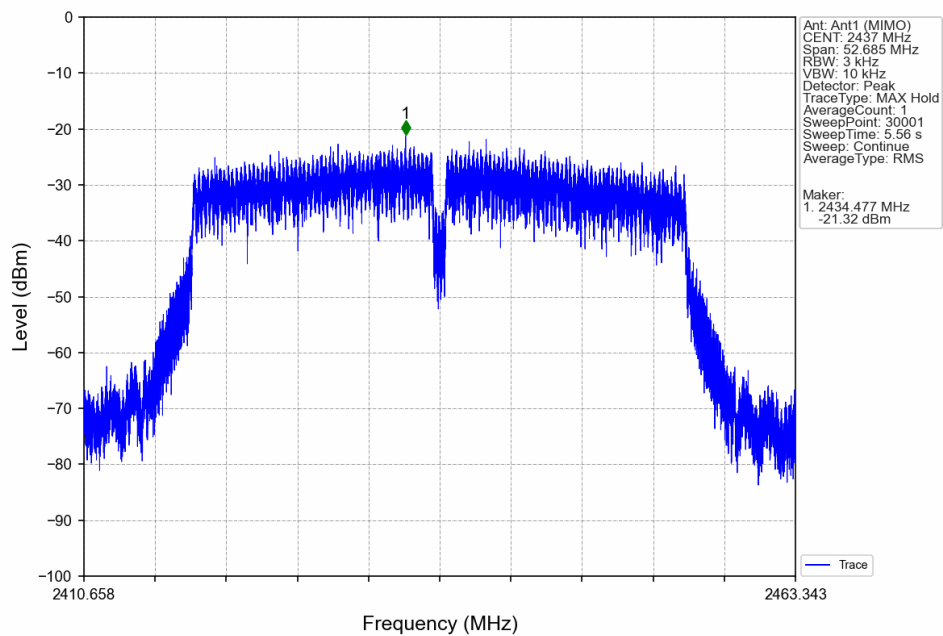


802.11n(HT40) LCH 2422MHz MIMO NTNV

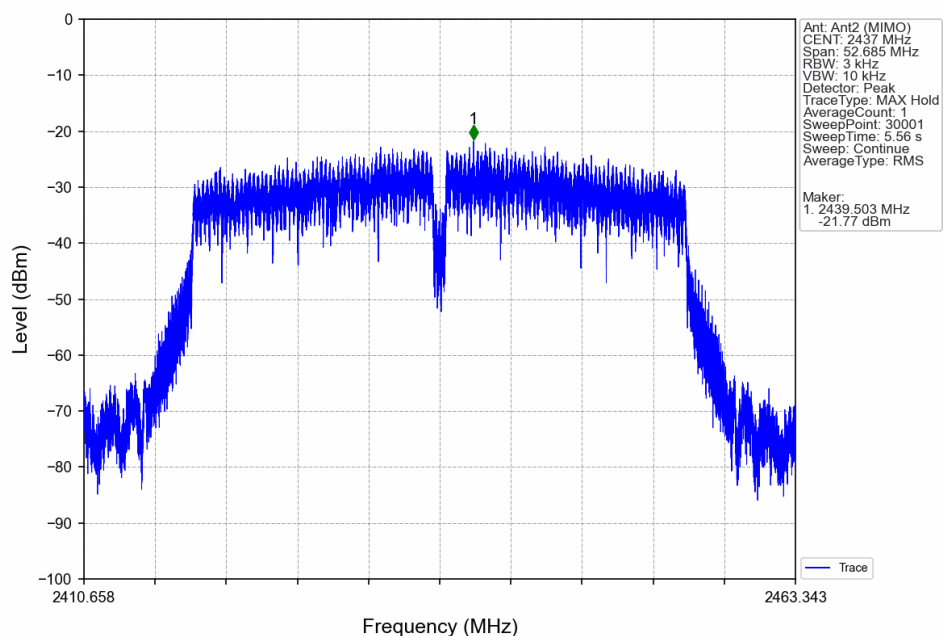


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802.11n(HT40) MCH 2437MHz Ant1 (MIMO) NTNV

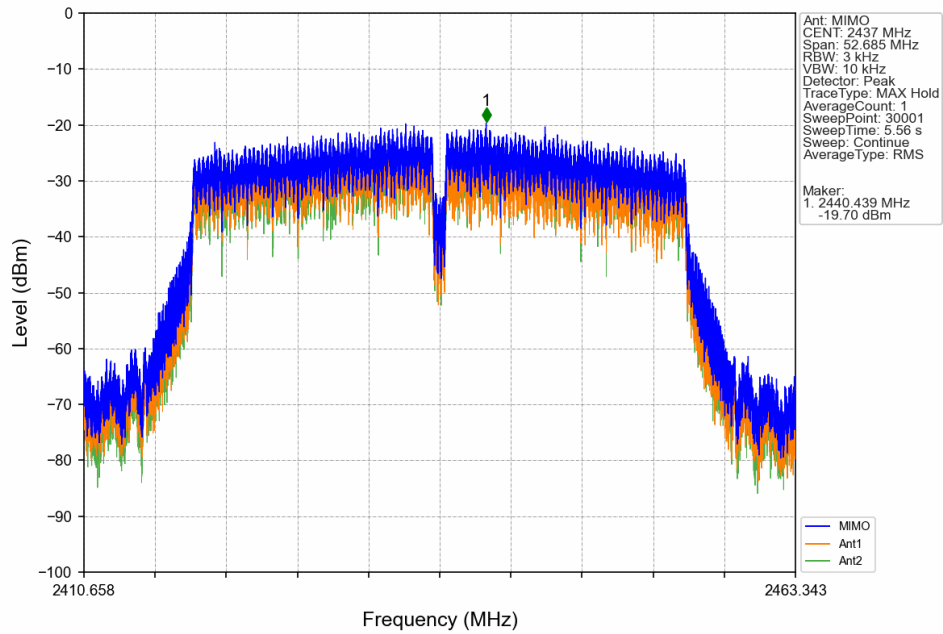


802.11n(HT40) MCH 2437MHz Ant2 (MIMO) NTNV

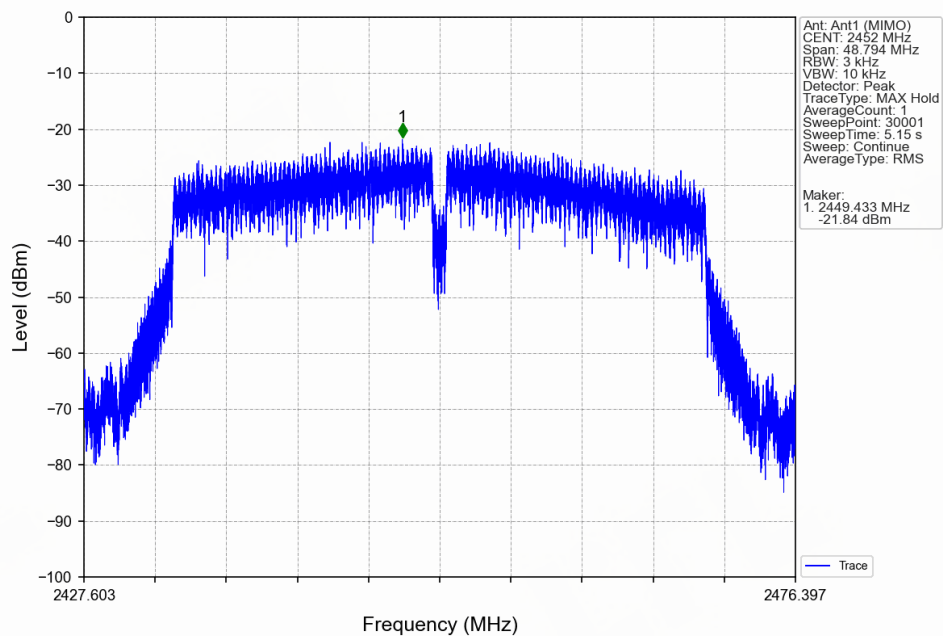


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802.11n(HT40) MCH 2437MHz MIMO NTNV

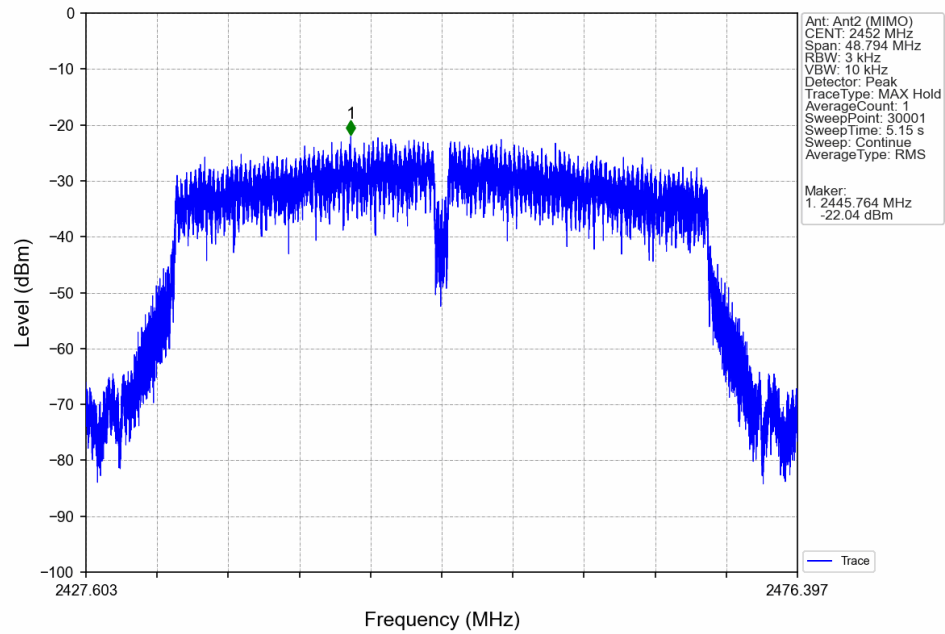


802.11n(HT40) HCH 2452MHz Ant1 (MIMO) NTNV

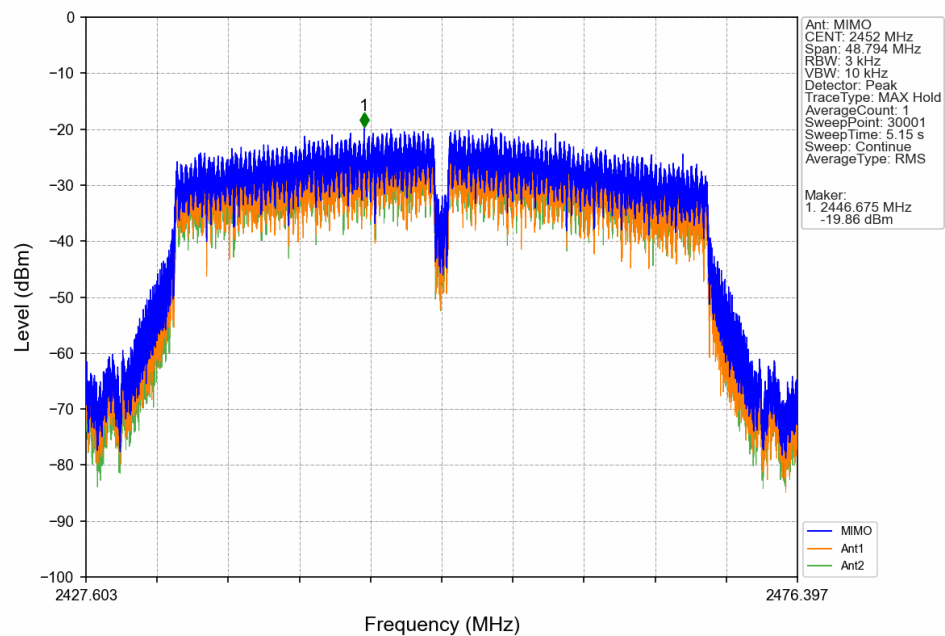


FCCID: 2AYHD-SR01

802.11n(HT40) HCH 2452MHz Ant2 (MIMO) NTNV



802.11n(HT40) HCH 2452MHz MIMO NTNV



FCCID: 2AYHD-SR01

5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	0.91
			2	2.16
		2437	1	2.48
			2	2.24
		2462	1	1.90
			2	1.16
802.11g	SISO	2412	1	-4.73
			2	-5.33
		2437	1	-3.07
			2	-4.21
		2462	1	-3.98
			2	-4.05
802.11n (HT20)	SISO	2412	1	-3.42
			2	-2.66
		2437	1	-3.36
			2	-3.66
		2462	1	-4.13
			2	-3.46
802.11n (HT40)	SISO	2422	1	-5.75
			2	-5.62
		2437	1	-6.20
			2	-6.22
		2452	1	-5.76
			2	-5.77
802.11n (HT20)	MIMO	2412	1	-3.49
			2	-2.76
		2437	1	-3.14
			2	-3.21
		2462	1	-4.84
			2	-2.92
802.11n (HT40)	MIMO	2422	1	-5.59
			2	-5.45
		2437	1	-5.96
			2	-5.61
		2452	1	-5.55
			2	-5.30

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 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
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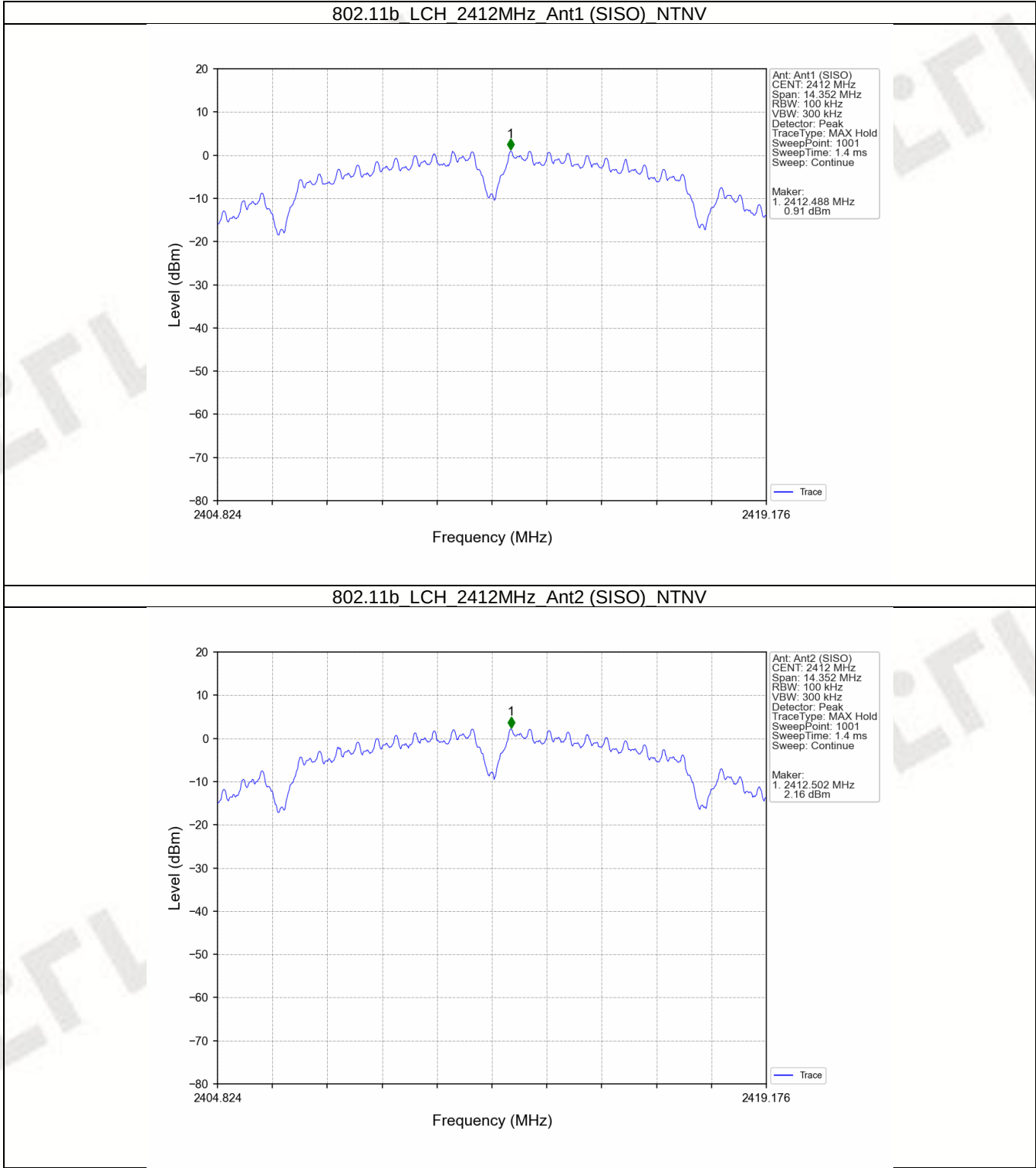
FCCID: 2AYHD-SR01

802.11b	SISO	2412	1	2.48	-17.52	Pass
			2	2.24	-17.76	Pass
		2437	1	2.48	-17.52	Pass
			2	2.24	-17.76	Pass
		2462	1	2.48	-17.52	Pass
			2	2.24	-17.76	Pass
802.11g	SISO	2412	1	-3.07	-23.07	Pass
			2	-4.05	-24.05	Pass
		2437	1	-3.07	-23.07	Pass
			2	-4.05	-24.05	Pass
		2462	1	-3.07	-23.07	Pass
			2	-4.05	-24.05	Pass
802.11n (HT20)	SISO	2412	1	-3.36	-23.36	Pass
			2	-2.66	-22.66	Pass
		2437	1	-3.36	-23.36	Pass
			2	-2.66	-22.66	Pass
		2462	1	-3.36	-23.36	Pass
			2	-2.66	-22.66	Pass
802.11n (HT40)	SISO	2422	1	-5.75	-25.75	Pass
			2	-5.62	-25.62	Pass
		2437	1	-5.75	-25.75	Pass
			2	-5.62	-25.62	Pass
		2452	1	-5.75	-25.75	Pass
			2	-5.62	-25.62	Pass
802.11n (HT20)	MIMO	2412	1	-3.14	-23.14	Pass
			2	-2.76	-22.76	Pass
		2437	1	-3.14	-23.14	Pass
			2	-2.76	-22.76	Pass
		2462	1	-3.14	-23.14	Pass
			2	-2.76	-22.76	Pass
802.11n (HT40)	MIMO	2422	1	-5.55	-25.55	Pass
			2	-5.30	-25.30	Pass
		2437	1	-5.55	-25.55	Pass
			2	-5.30	-25.30	Pass
		2452	1	-5.55	-25.55	Pass
			2	-5.30	-25.30	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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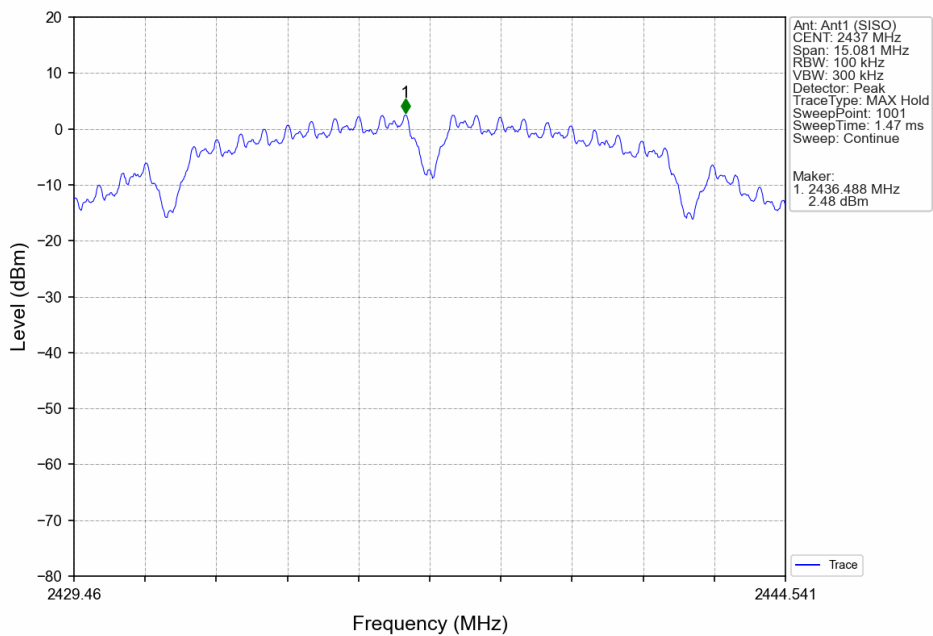
5.2 Test Graph

5.2.1 Ref

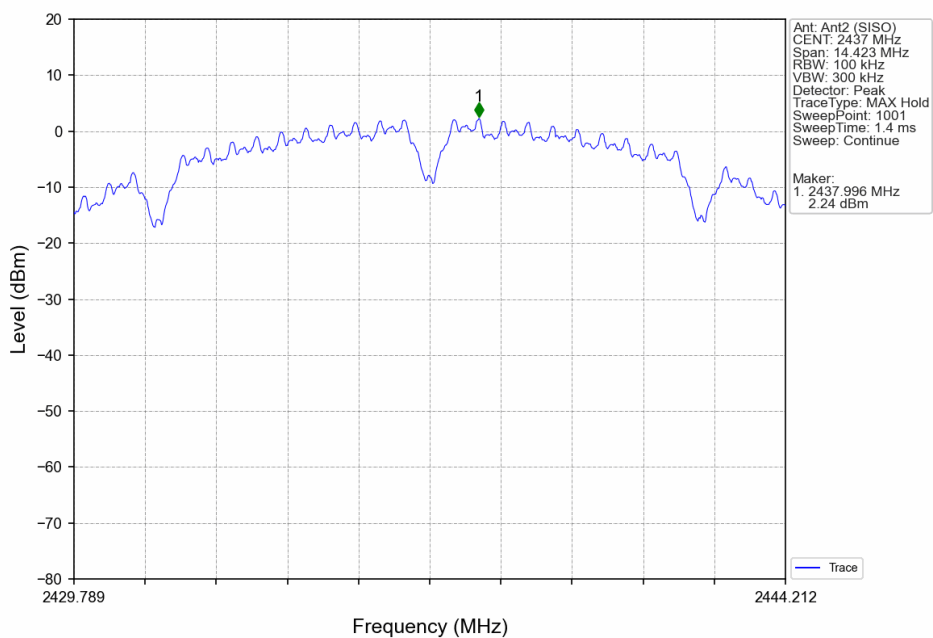


FCCID: 2AYHD-SR01

802.11b MCH 2437MHz Ant1 (SISO) NTN

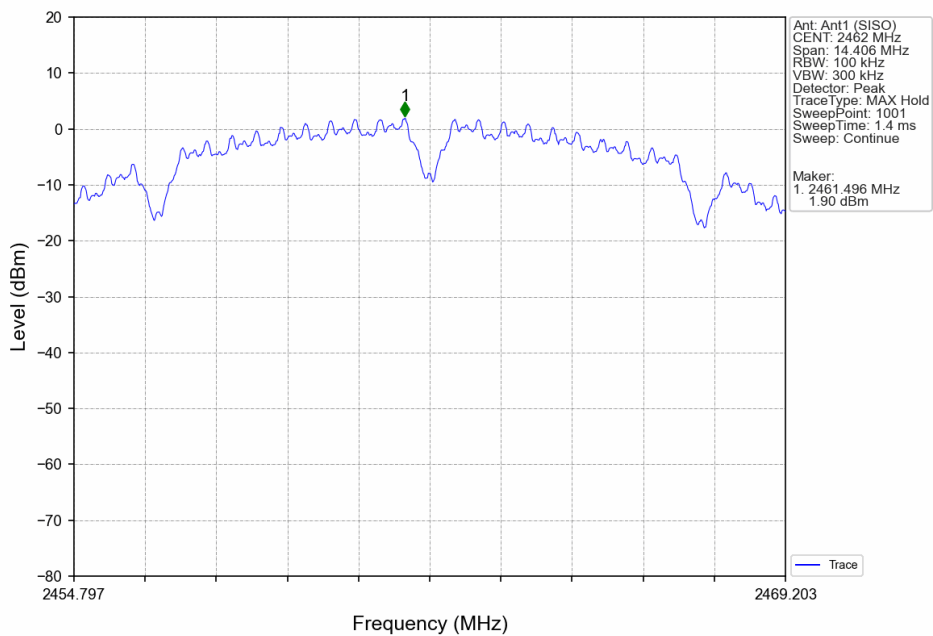


802.11b MCH 2437MHz Ant2 (SISO) NTN

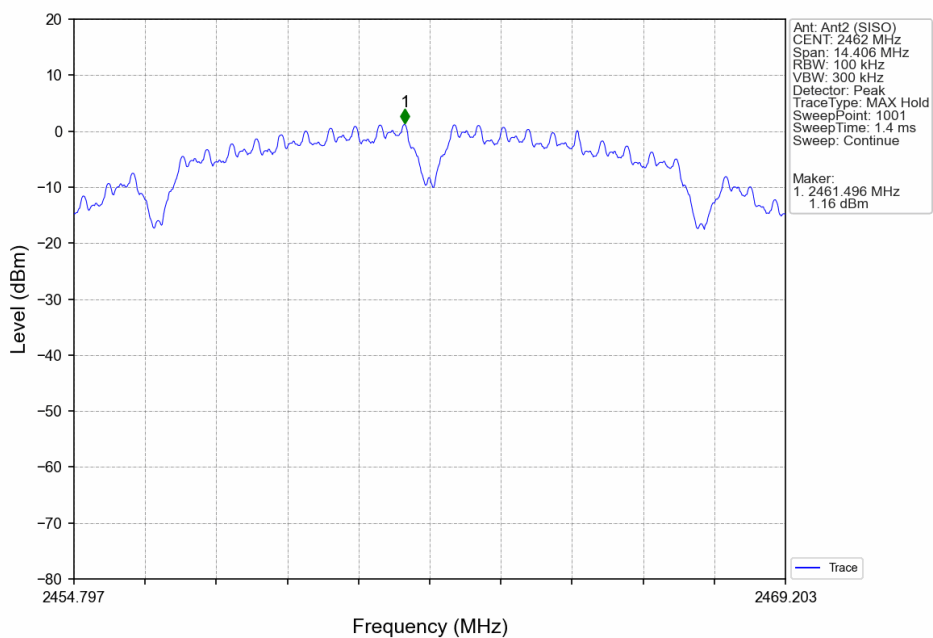


FCCID: 2AYHD-SR01

802.11b HCH 2462MHz Ant1 (SISO) NTN

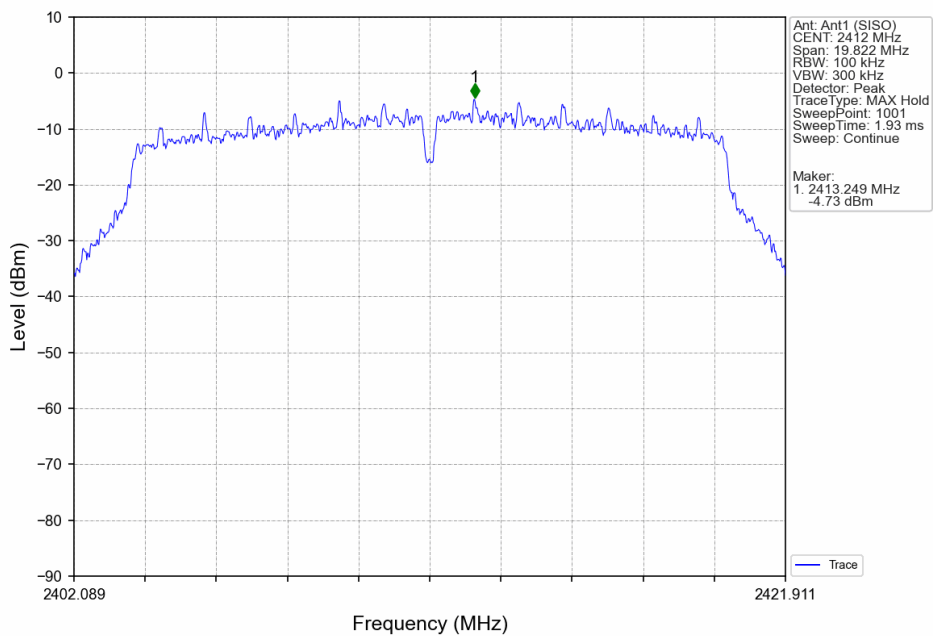


802.11b HCH 2462MHz Ant2 (SISO) NTN

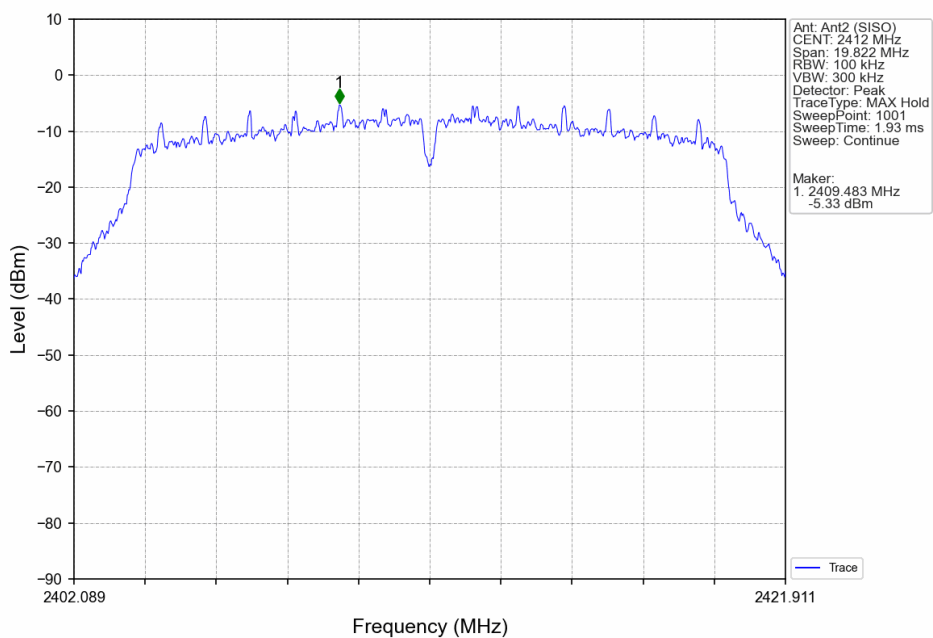


FCCID: 2AYHD-SR01

802.11g LCH 2412MHz Ant1 (SISO) NTN

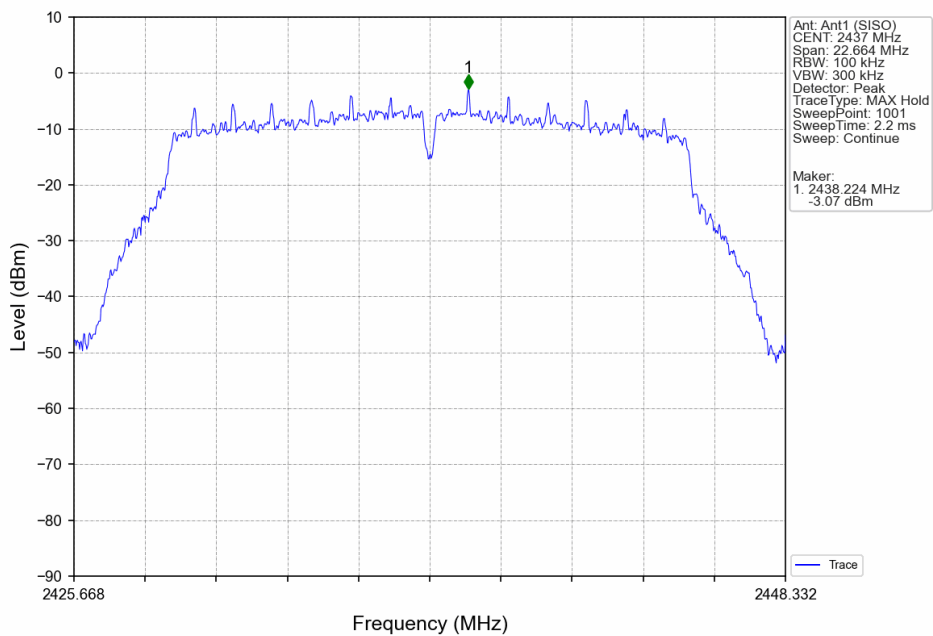


802.11g LCH 2412MHz Ant2 (SISO) NTN

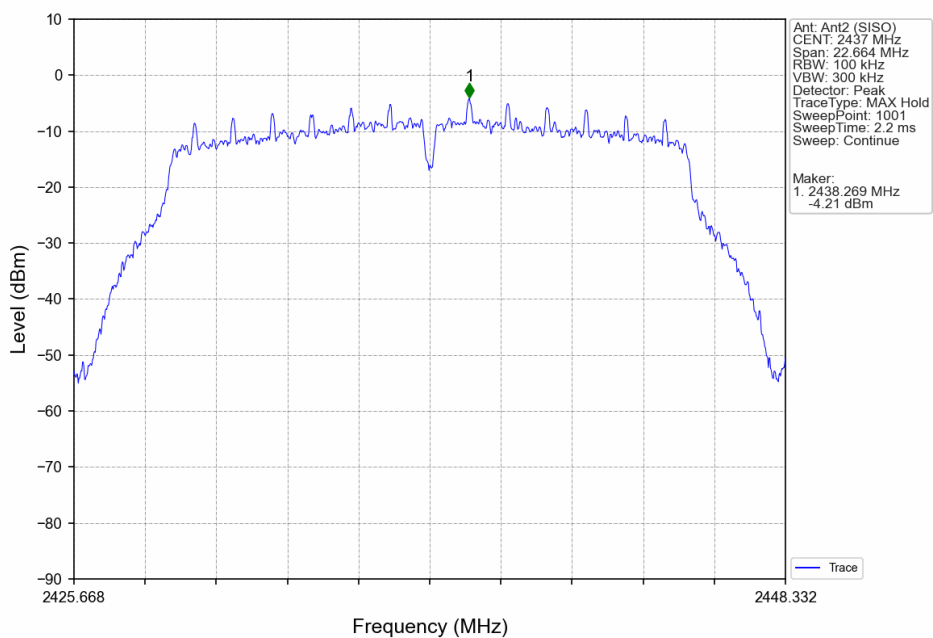


FCCID: 2AYHD-SR01

802.11g MCH 2437MHz Ant1 (SISO) NTN

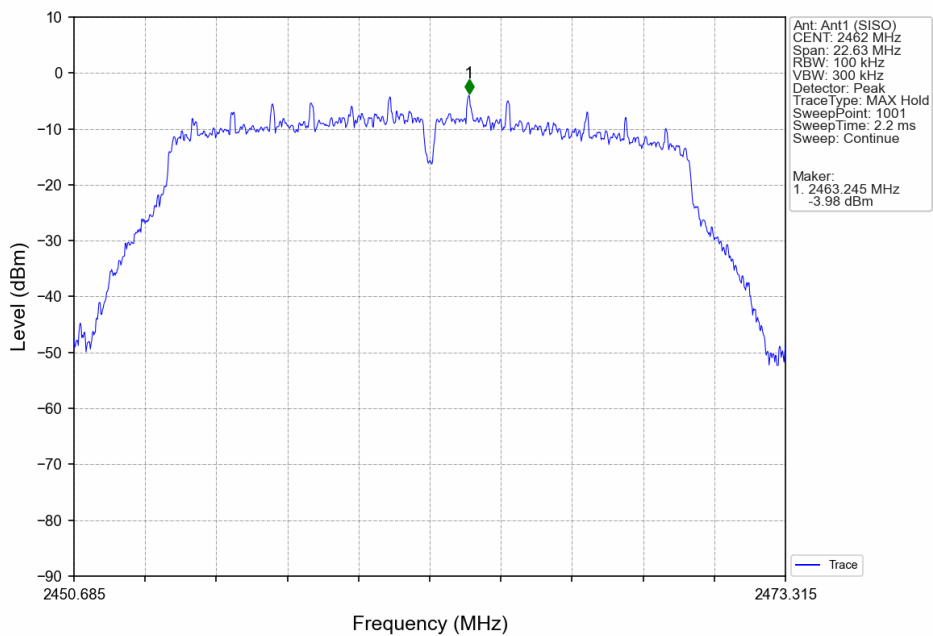


802.11g MCH 2437MHz Ant2 (SISO) NTN

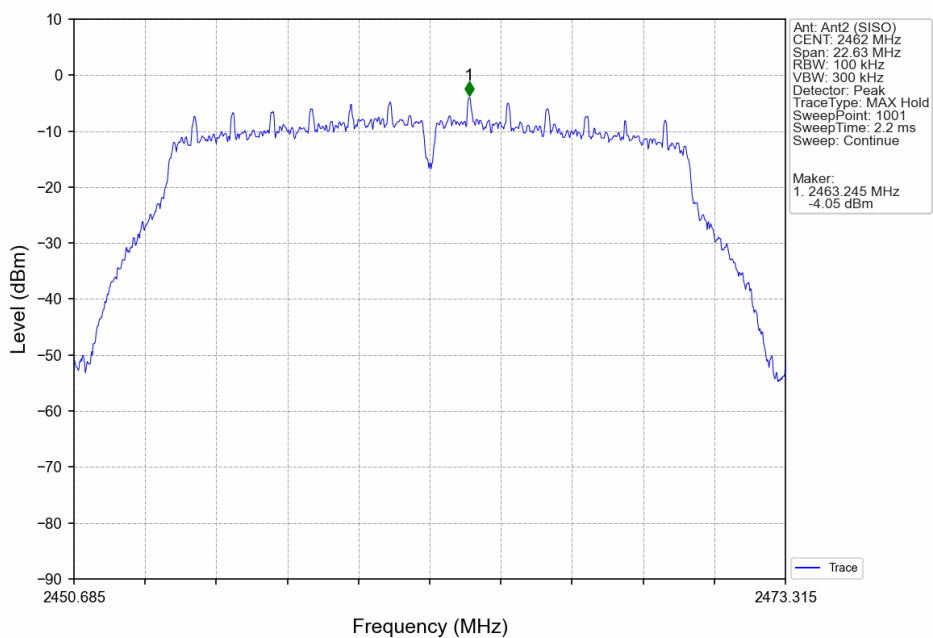


FCCID: 2AYHD-SR01

802.11g HCH 2462MHz Ant1 (SISO) NTN

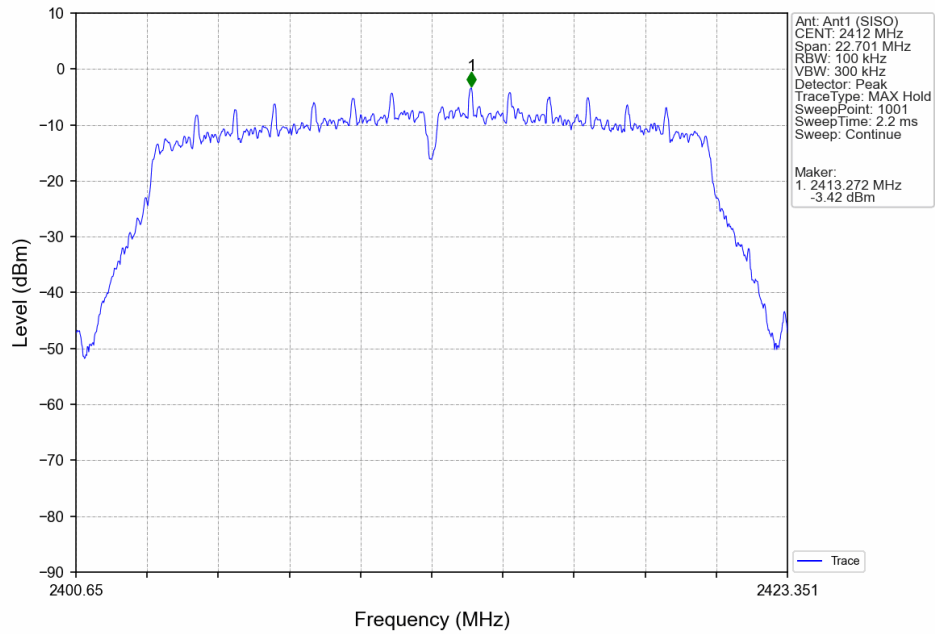


802.11g HCH 2462MHz Ant2 (SISO) NTN

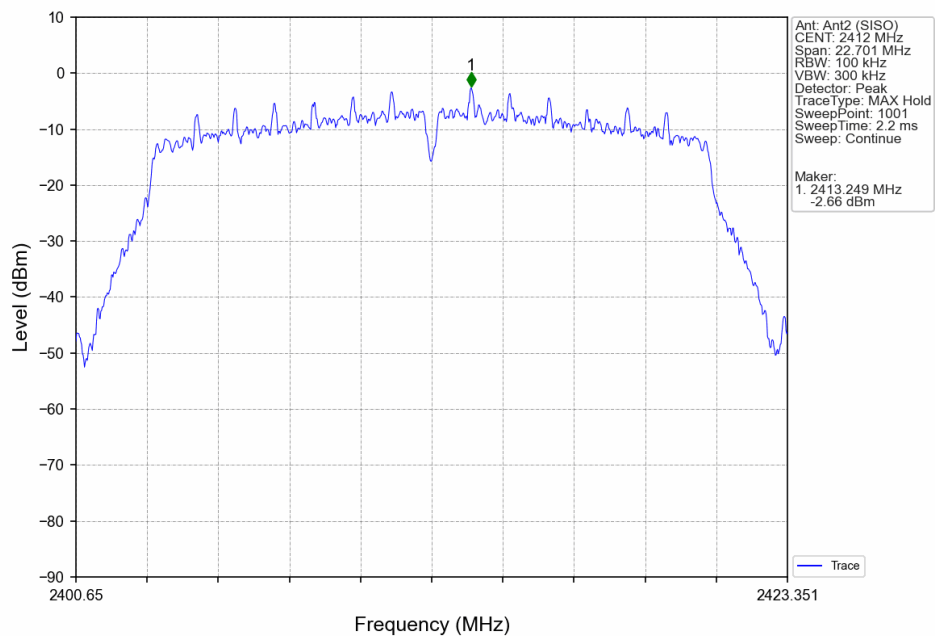


FCCID: 2AYHD-SR01

802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV

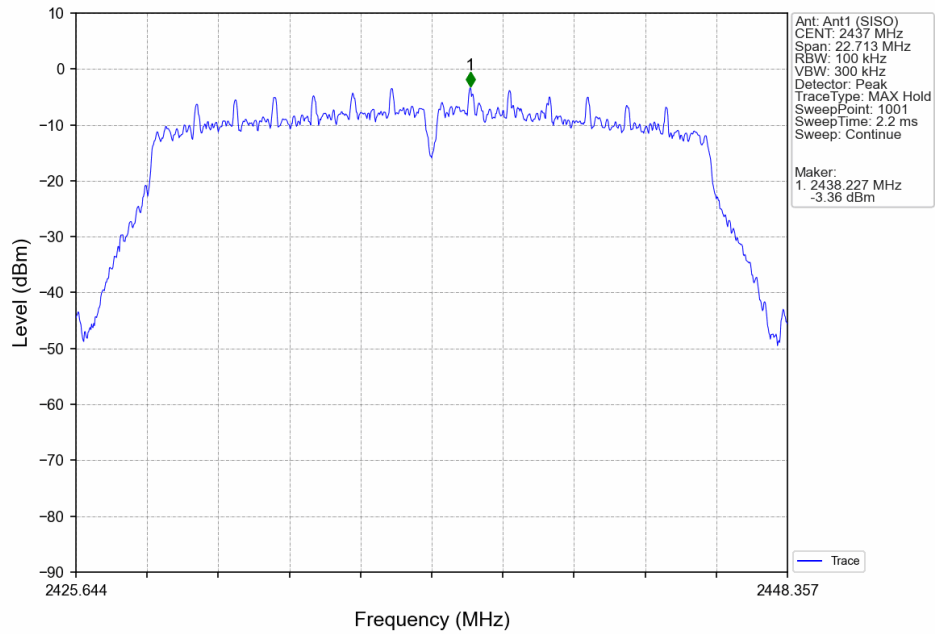


802.11n(HT20) LCH 2412MHz Ant2 (SISO) NTNV

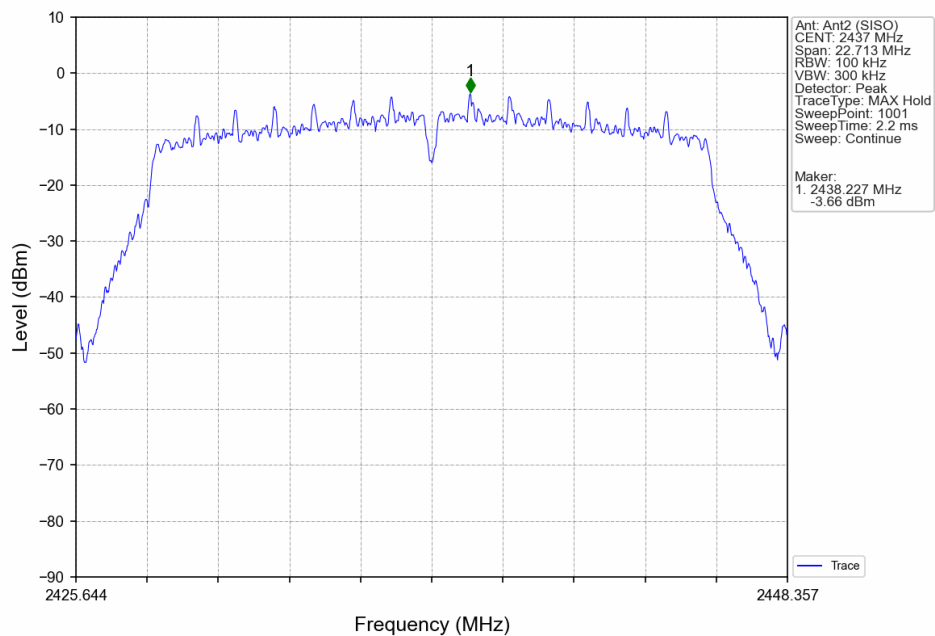


FCCID: 2AYHD-SR01

802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTN

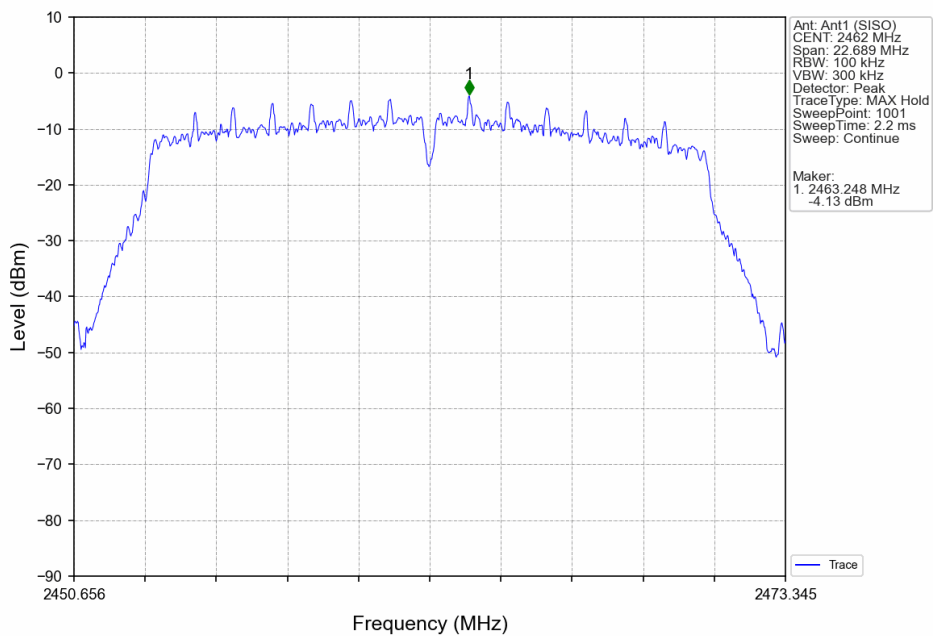


802.11n(HT20) MCH 2437MHz Ant2 (SISO) NTN

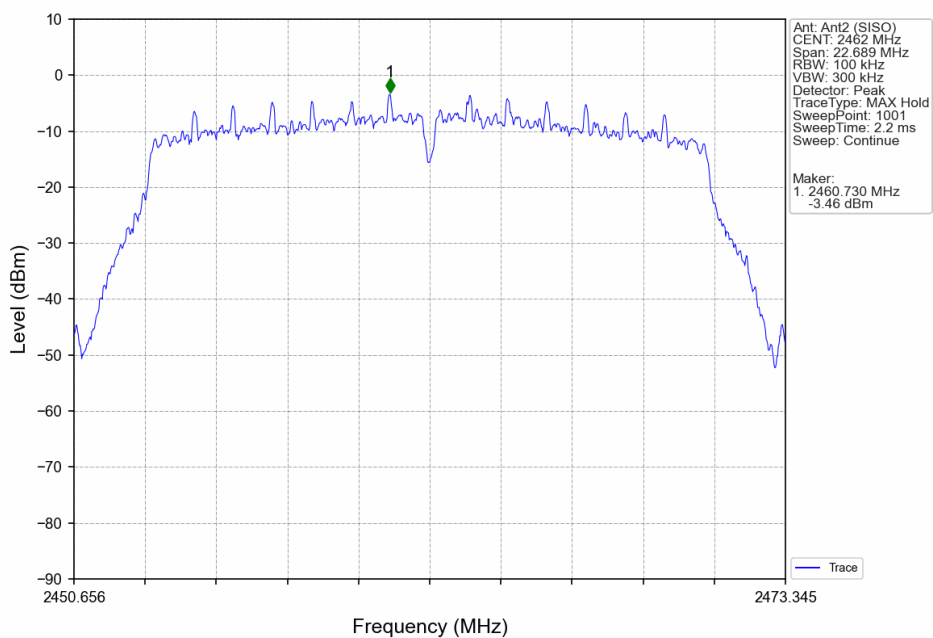


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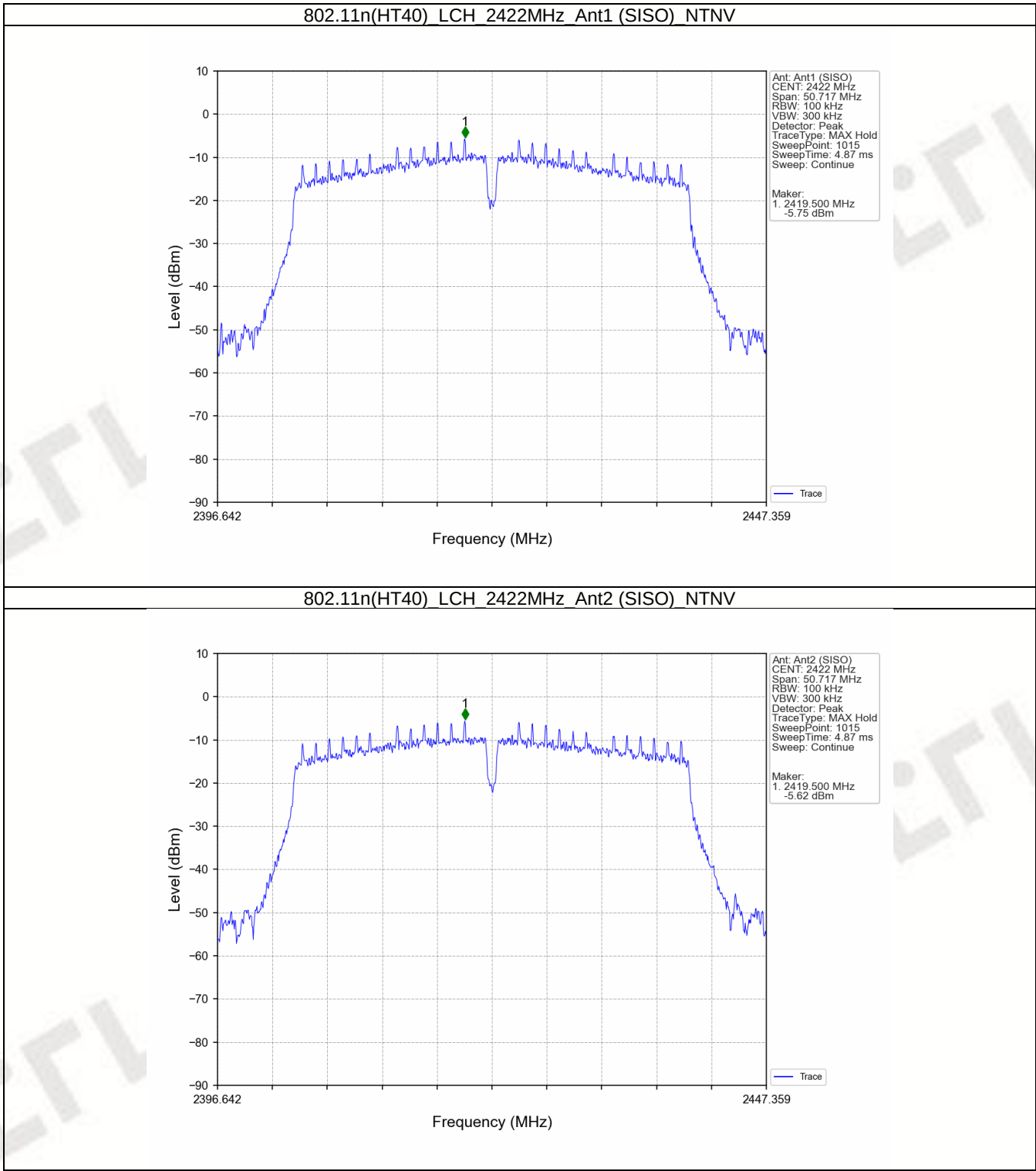
802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV



802.11n(HT20) HCH 2462MHz Ant2 (SISO) NTNV

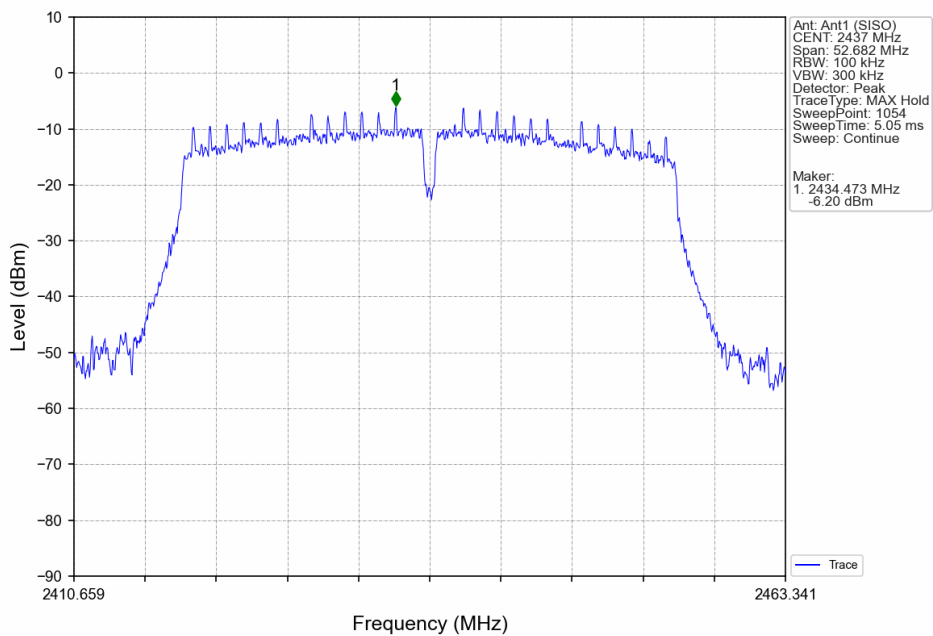


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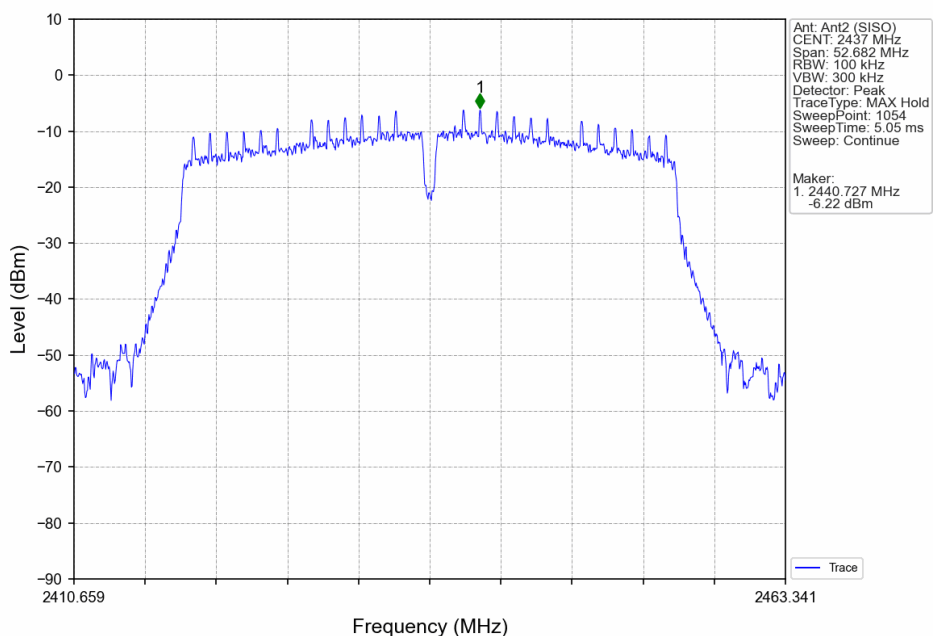


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802.11n(HT40) MCH 2437MHz Ant1 (SISO) NTNV

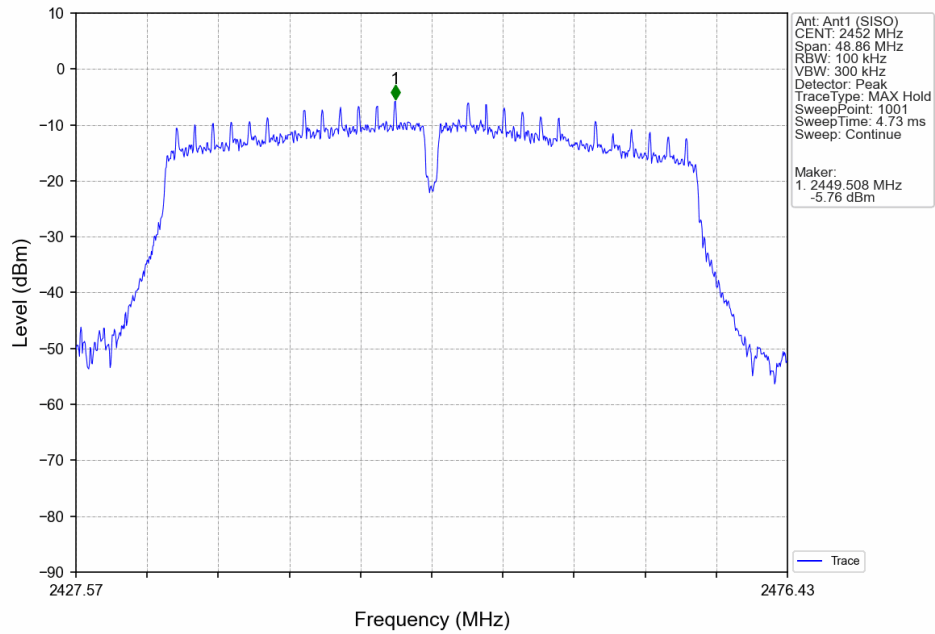


802.11n(HT40) MCH 2437MHz Ant2 (SISO) NTNV

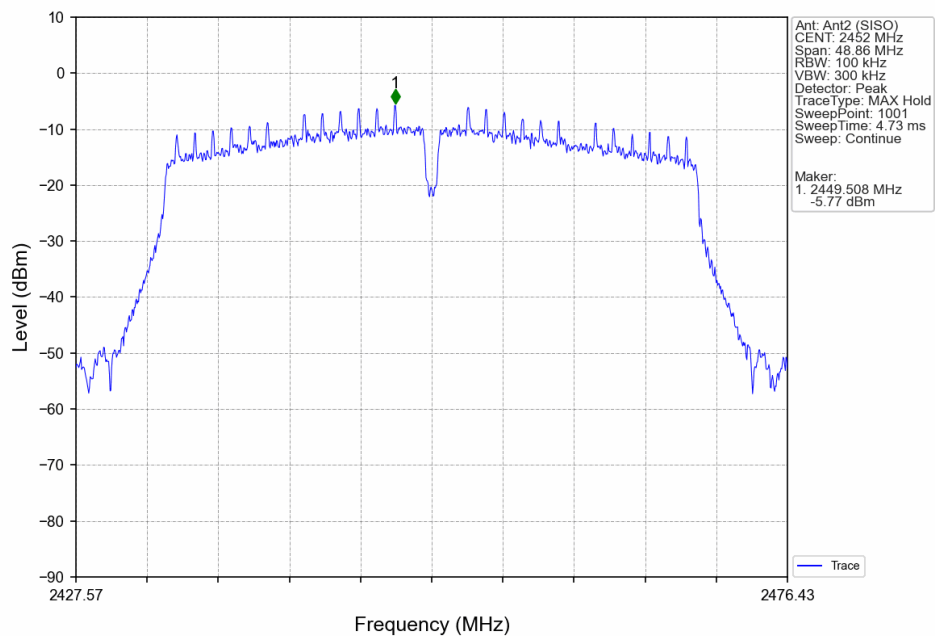


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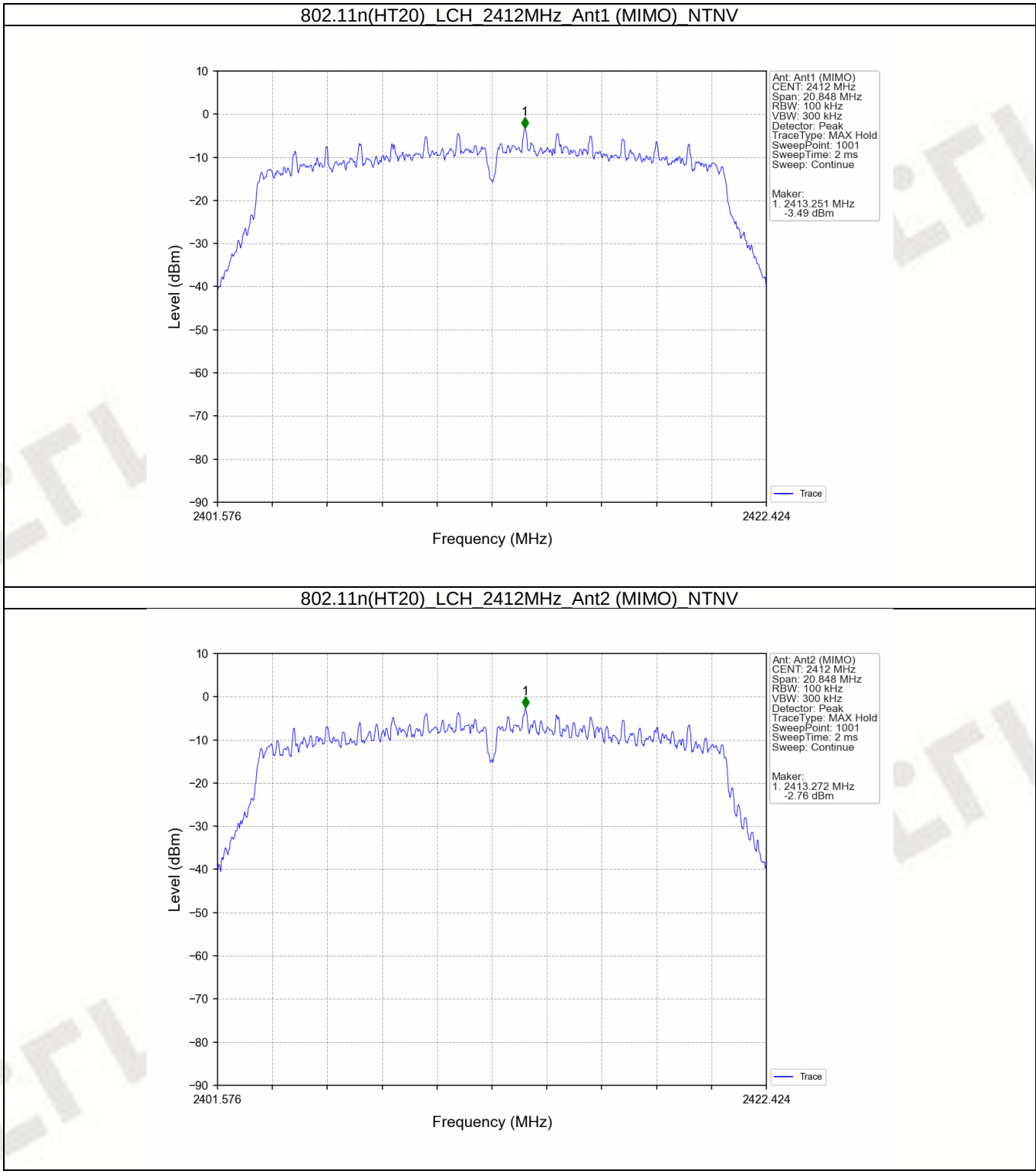
802.11n(HT40) HCH 2452MHz Ant1 (SISO) NTNV



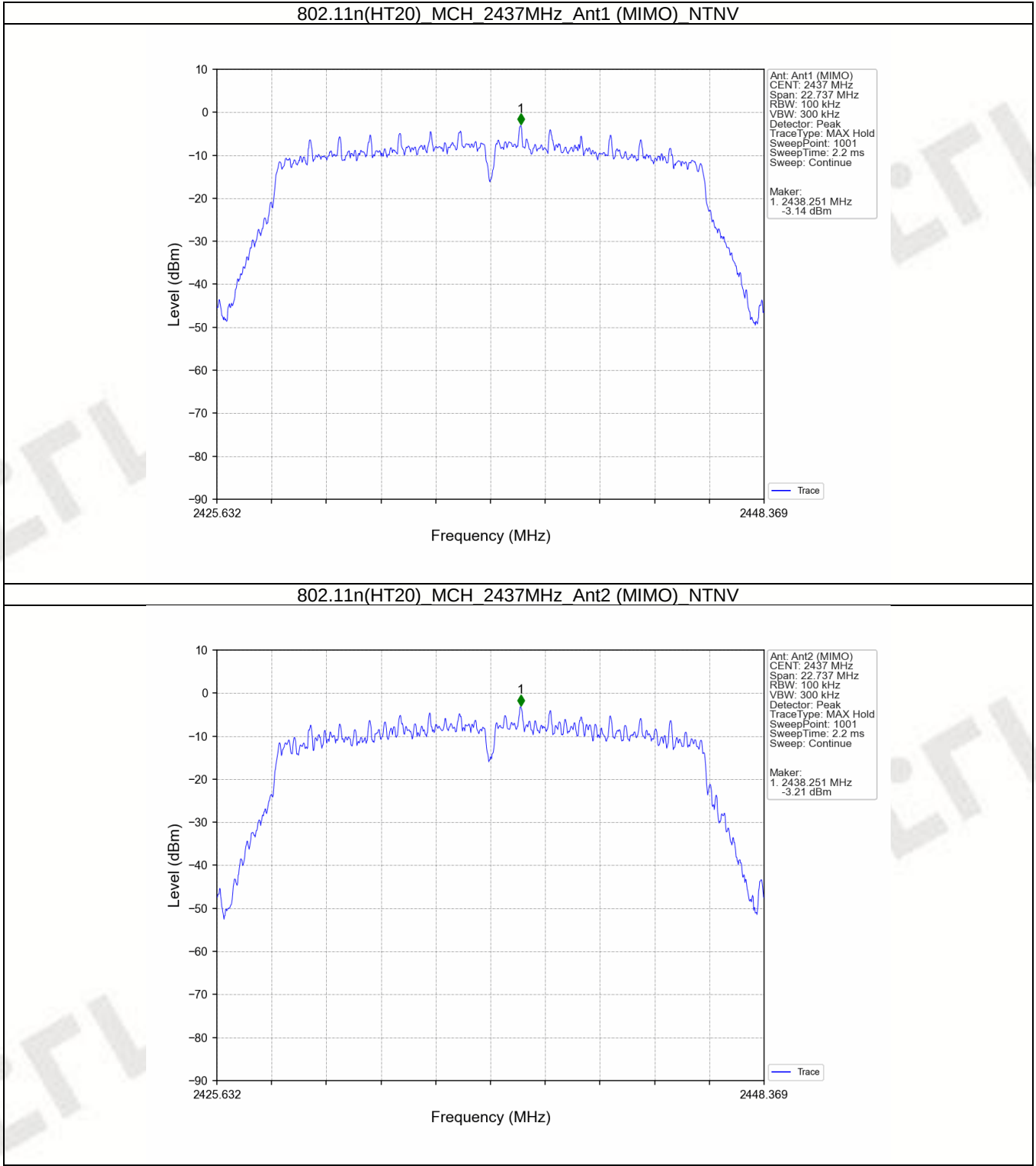
802.11n(HT40) HCH 2452MHz Ant2 (SISO) NTNV



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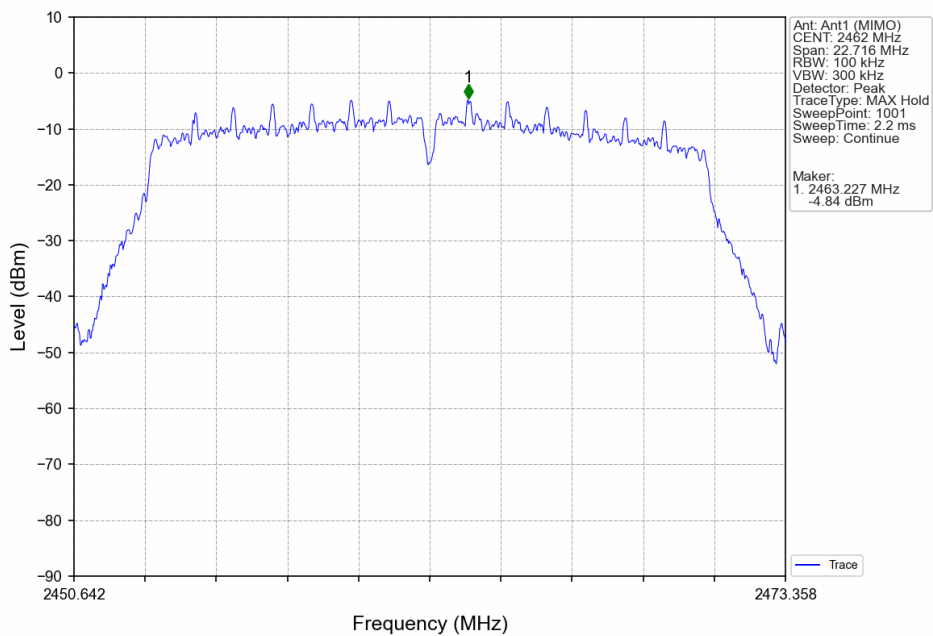


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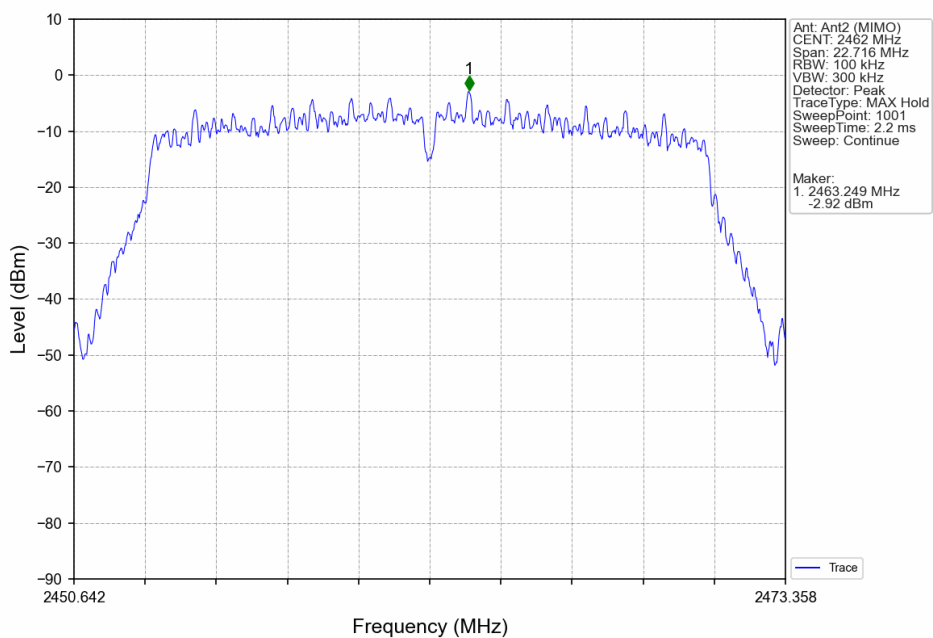


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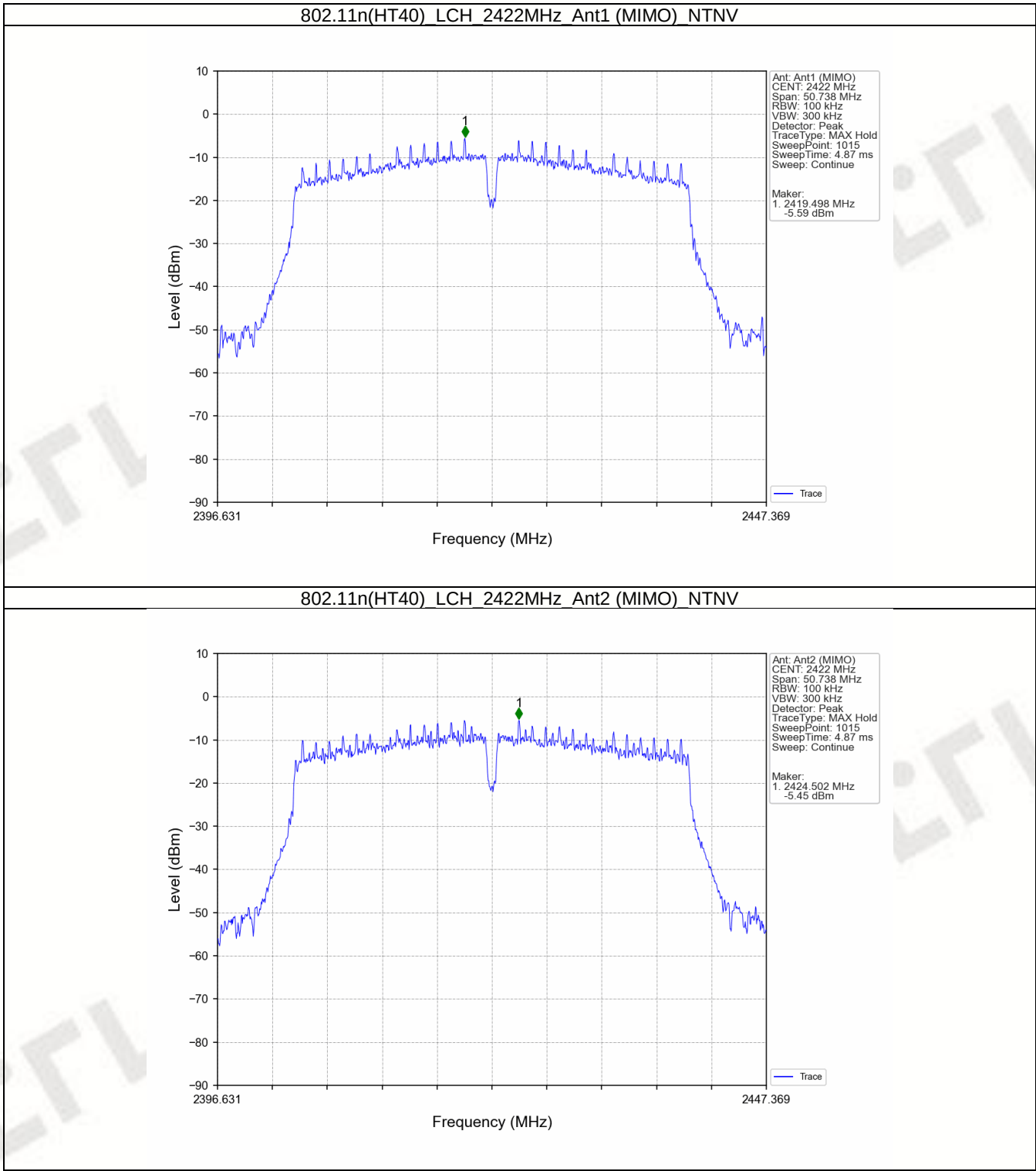
802.11n(HT20) HCH 2462MHz Ant1 (MIMO) NTNV



802.11n(HT20) HCH 2462MHz Ant2 (MIMO) NTNV

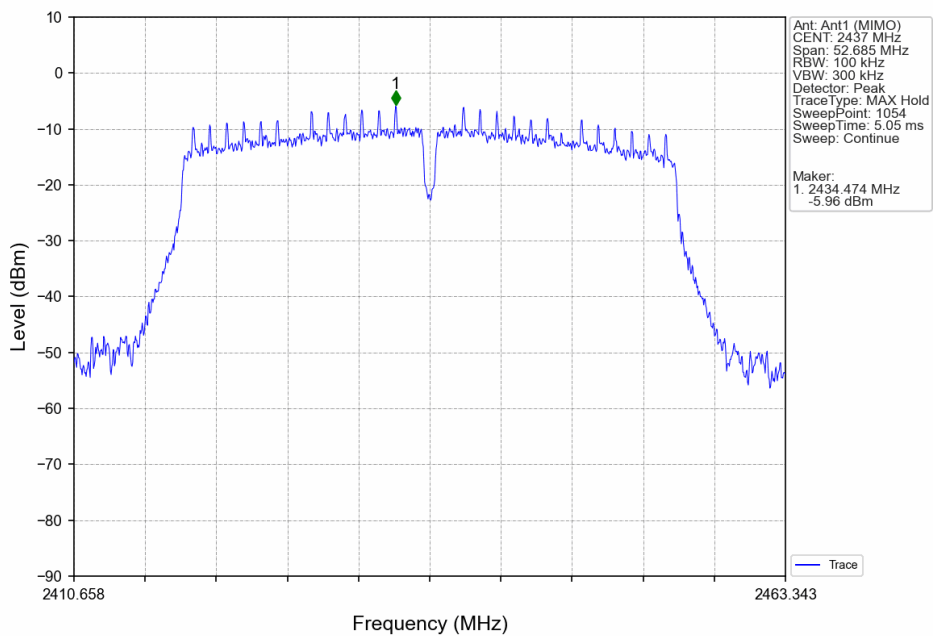


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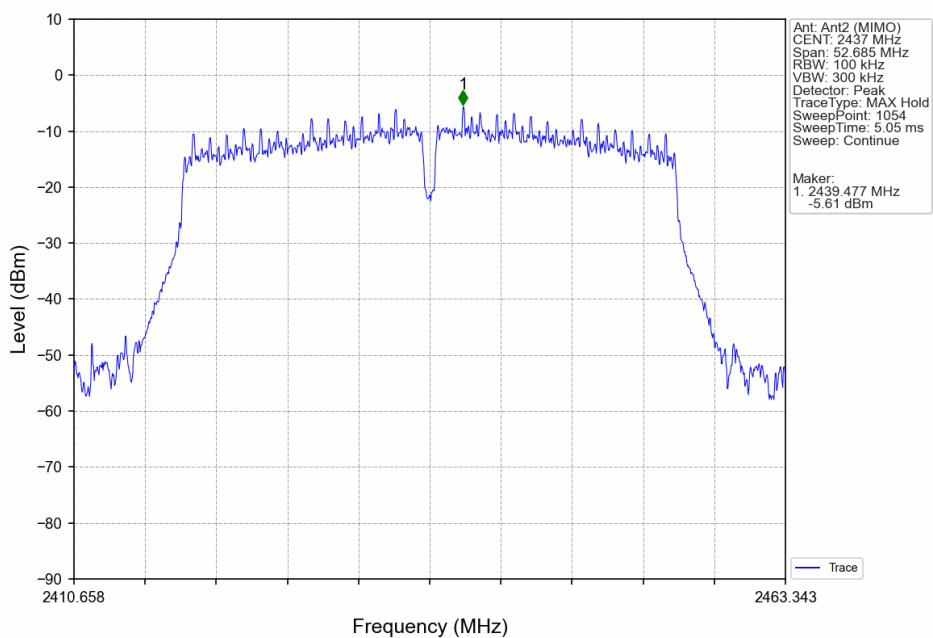


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802.11n(HT40) MCH 2437MHz Ant1 (MIMO) NTNV

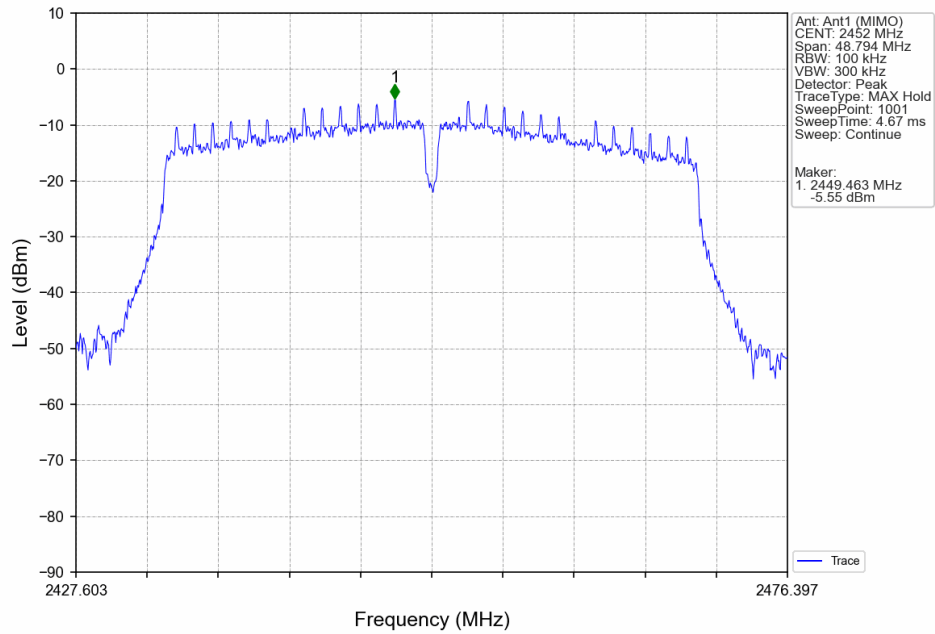


802.11n(HT40) MCH 2437MHz Ant2 (MIMO) NTNV

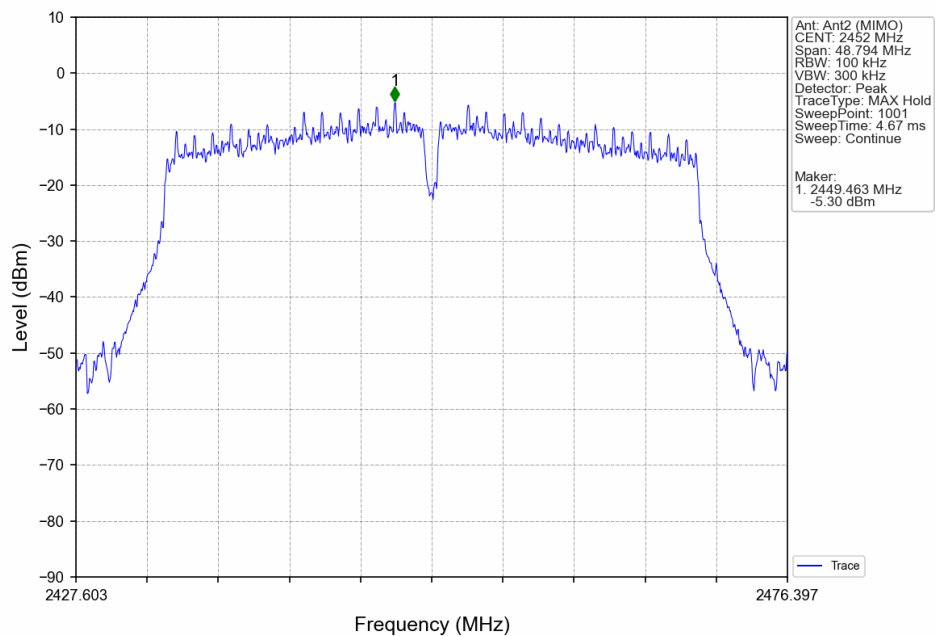


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802.11n(HT40) HCH 2452MHz Ant1 (MIMO) NTNV

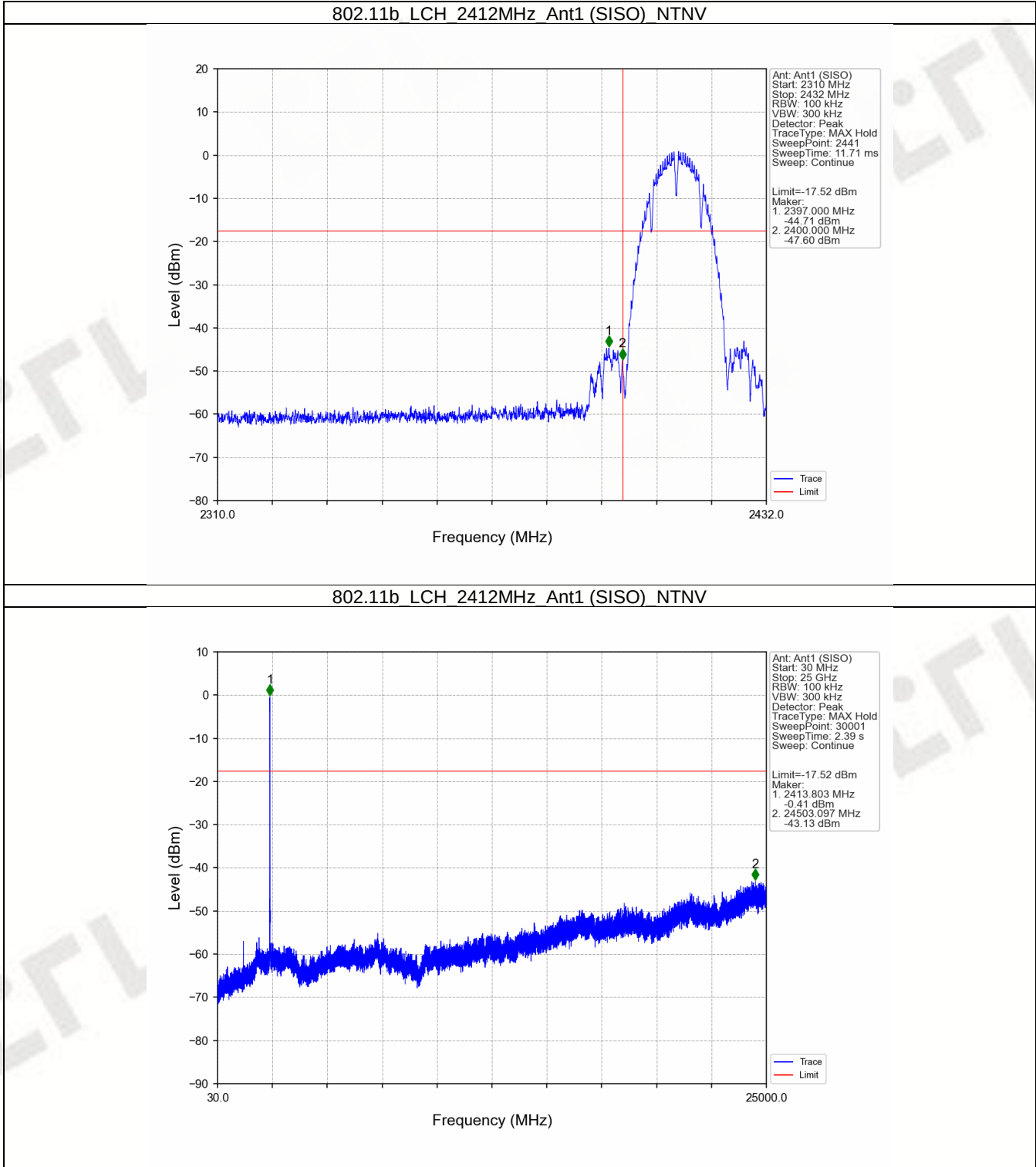


802.11n(HT40) HCH 2452MHz Ant2 (MIMO) NTNV

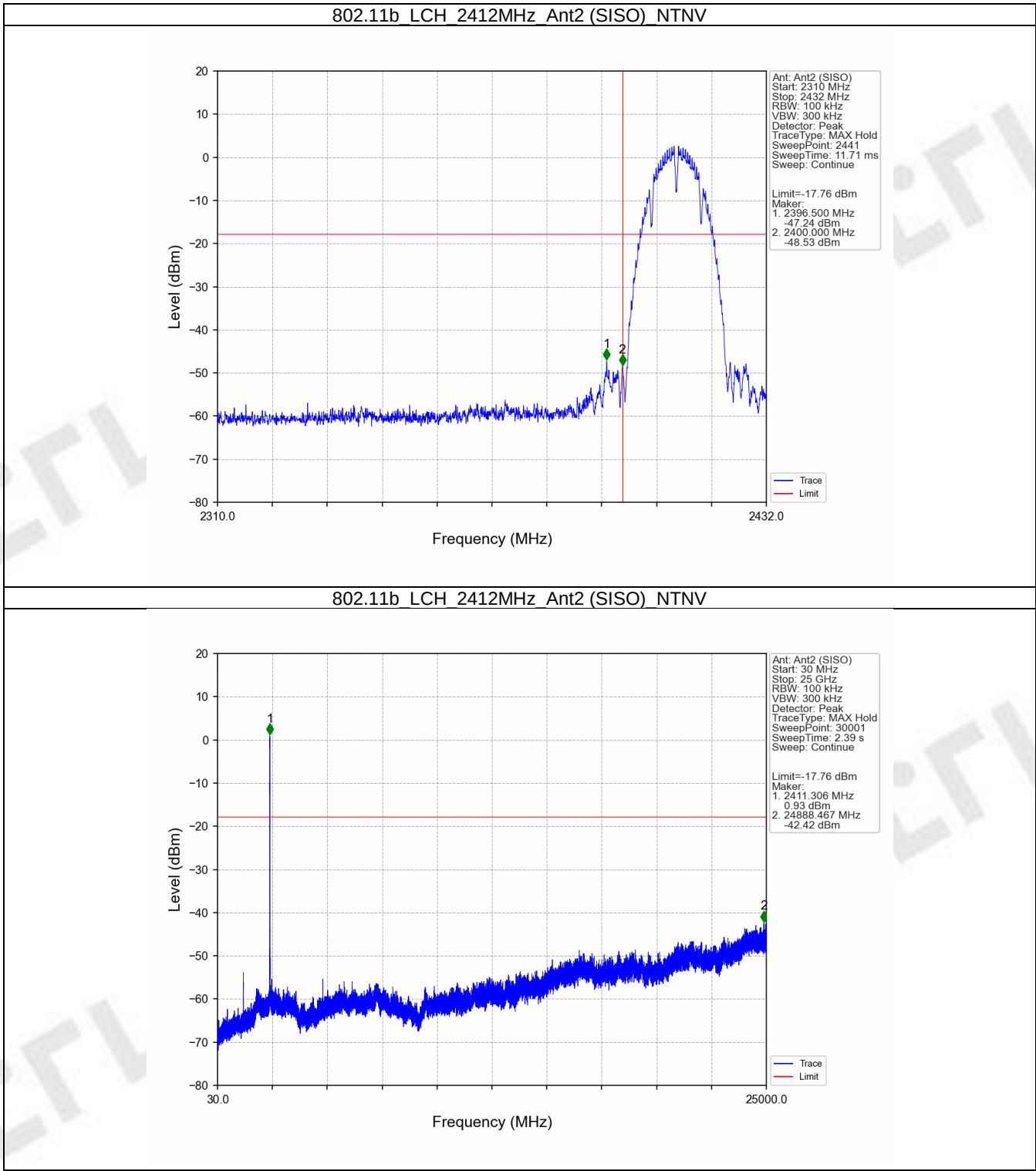


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5.2.2 CSE

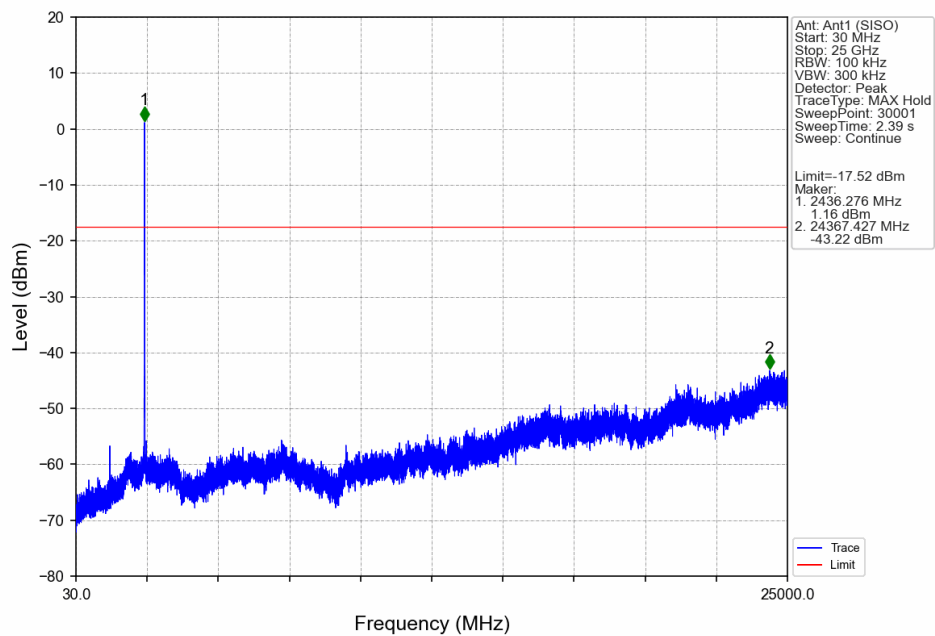


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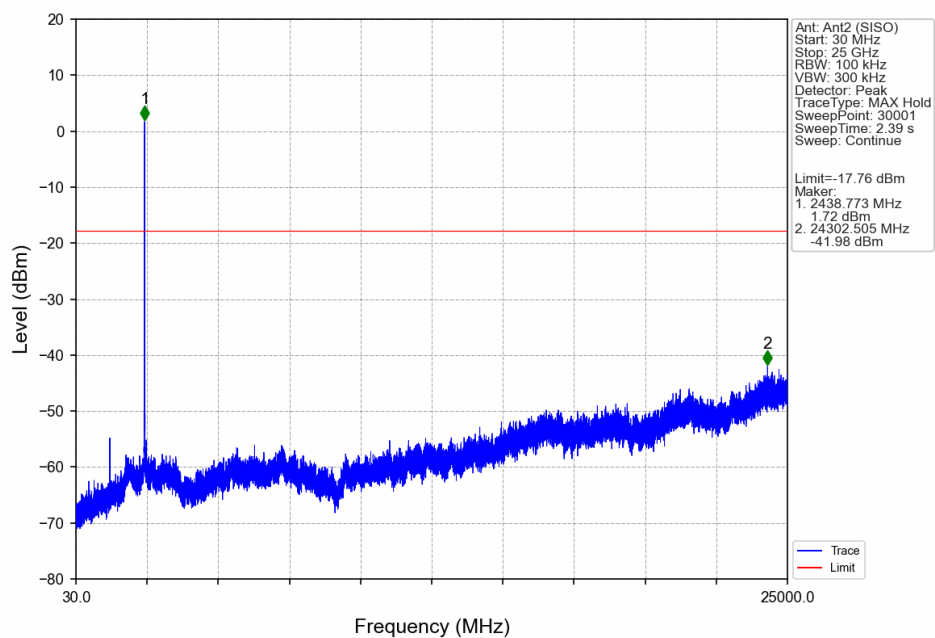


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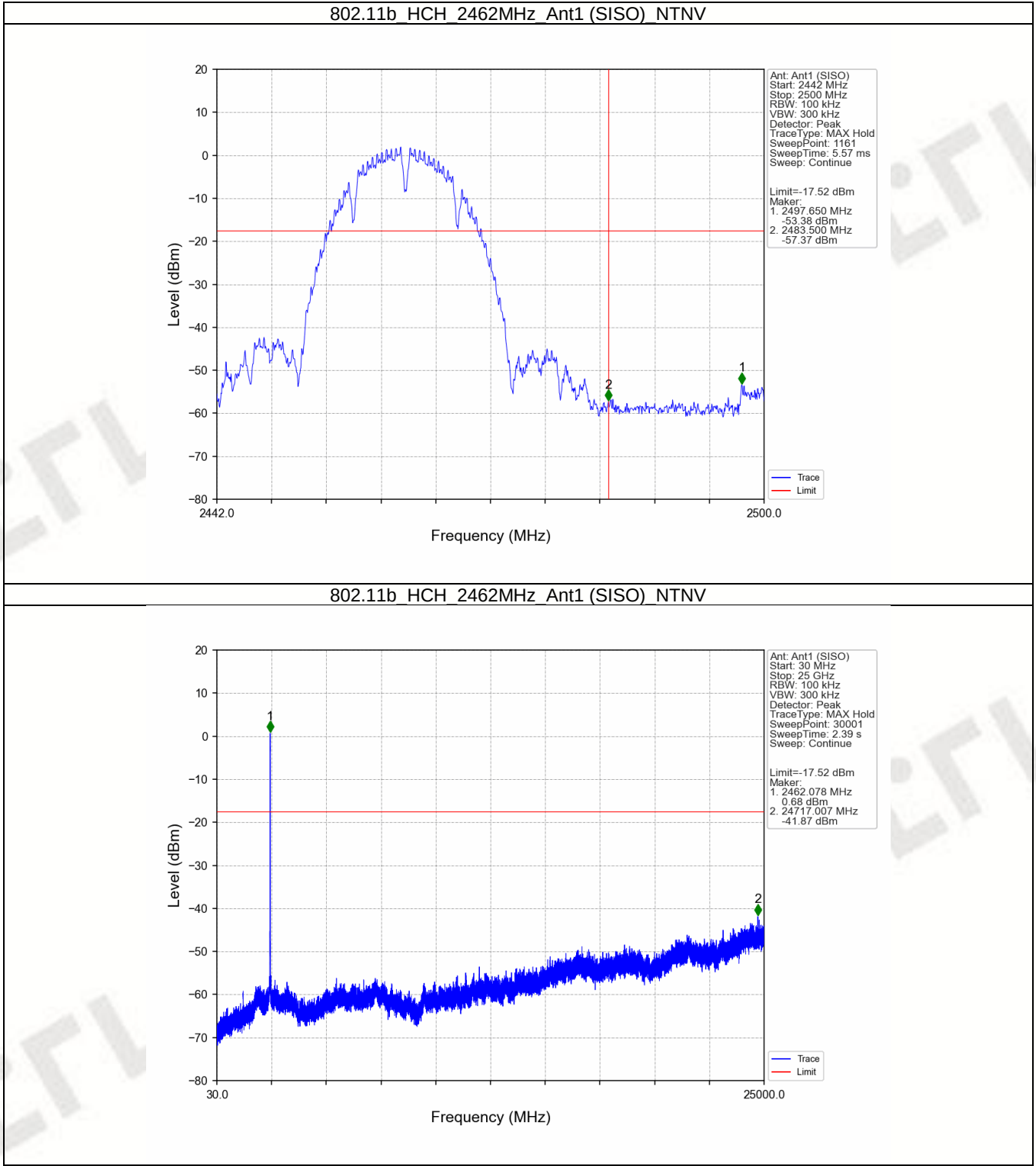
802.11b MCH 2437MHz Ant1 (SISO) NTNv



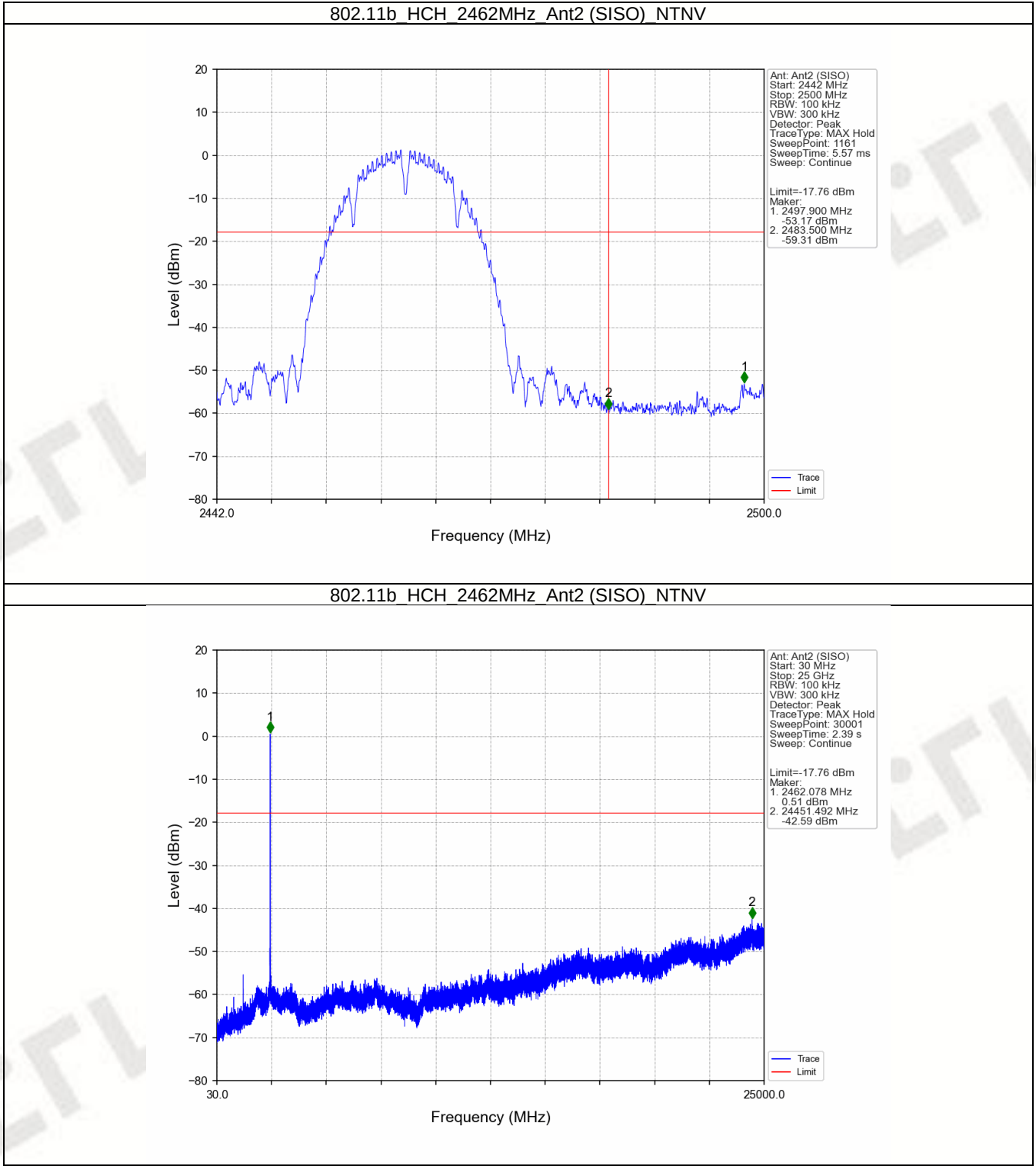
802.11b MCH 2437MHz Ant2 (SISO) NTNv



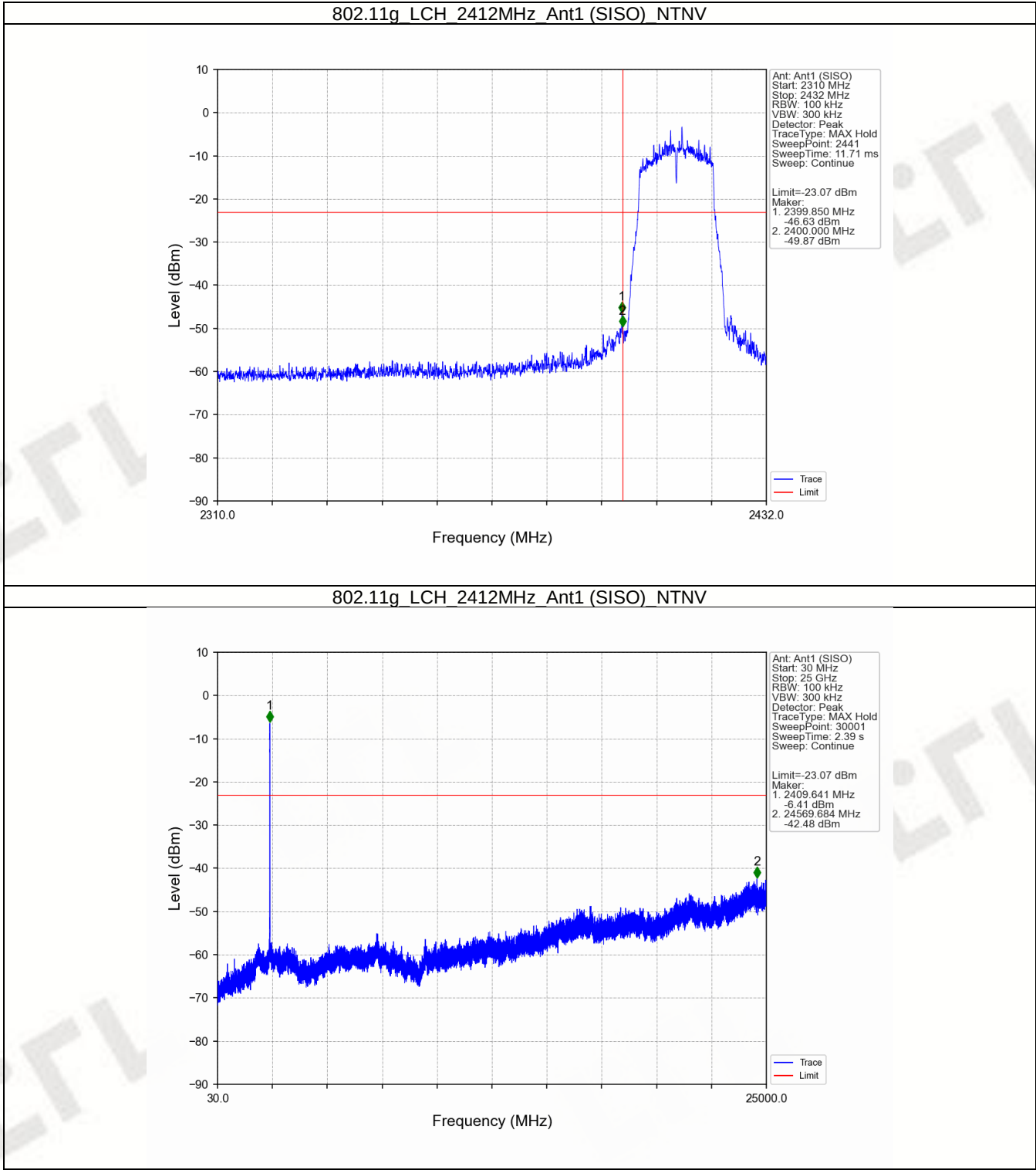
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FCCID: 2AYHD-SR01

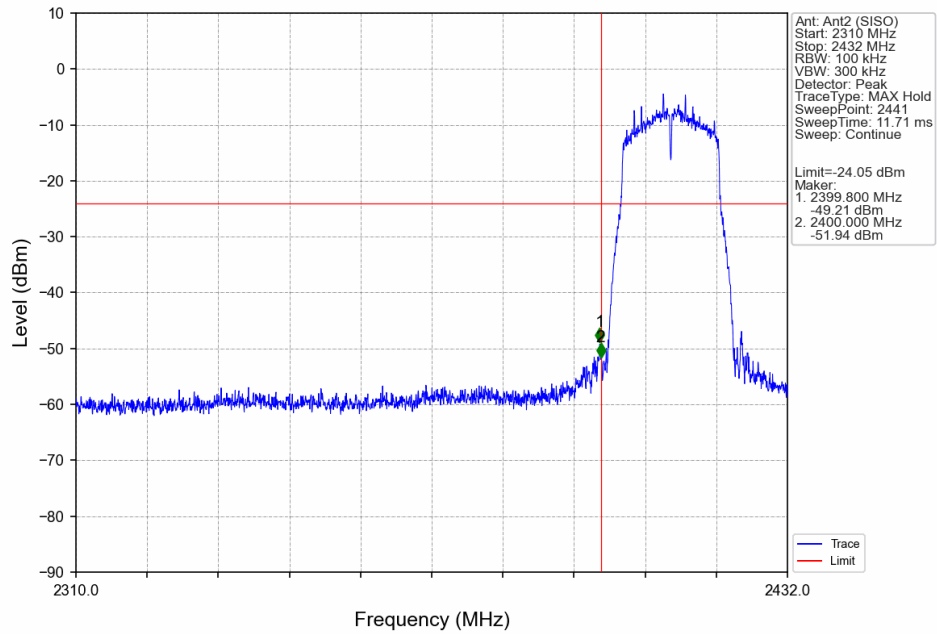


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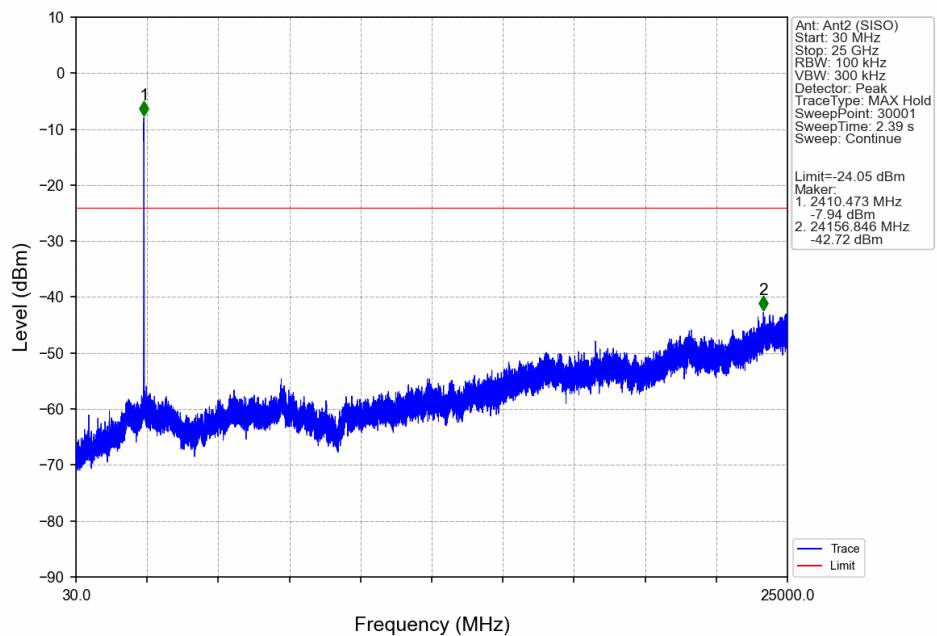


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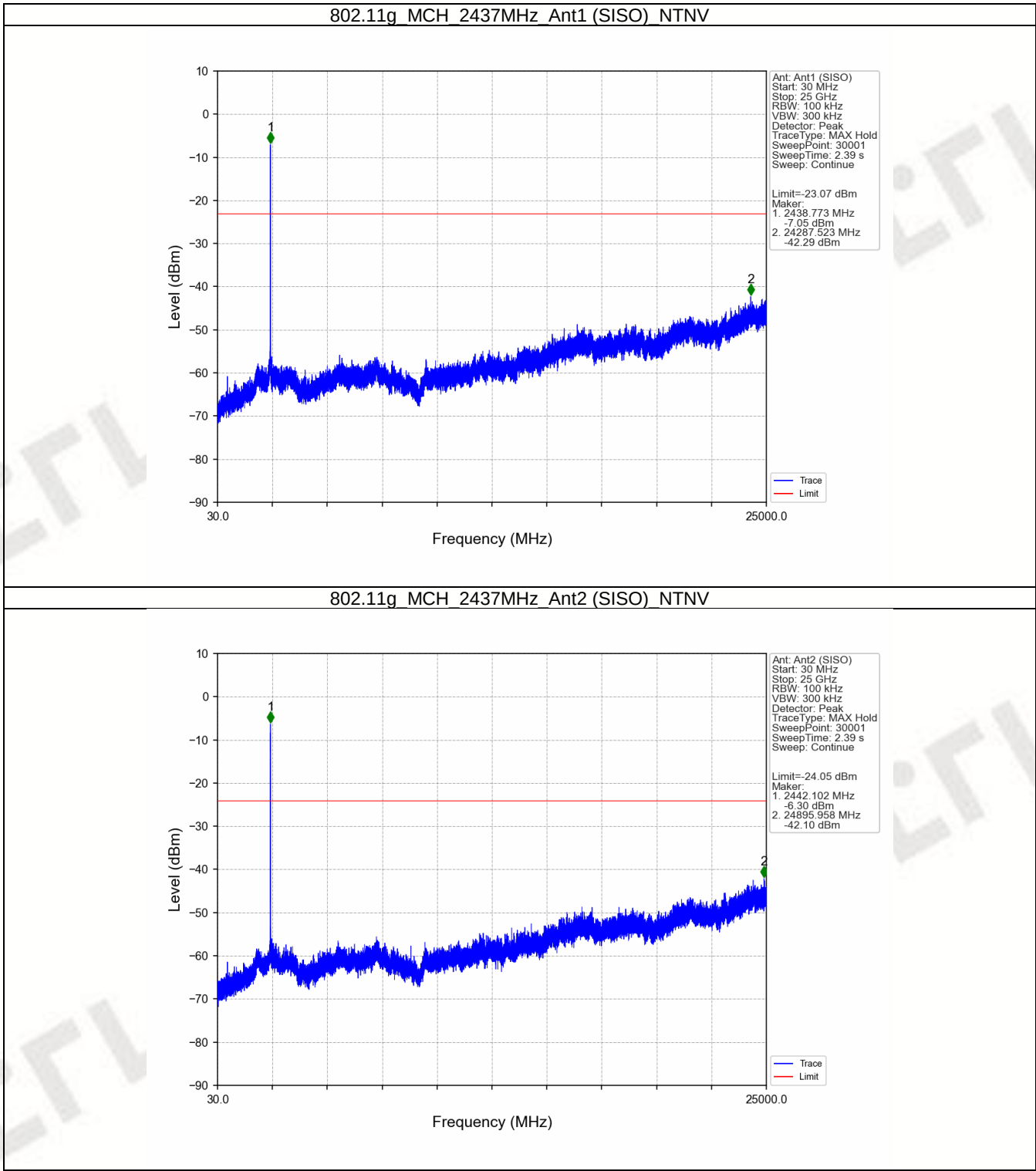
802.11g LCH 2412MHz Ant2 (SISO) NTN



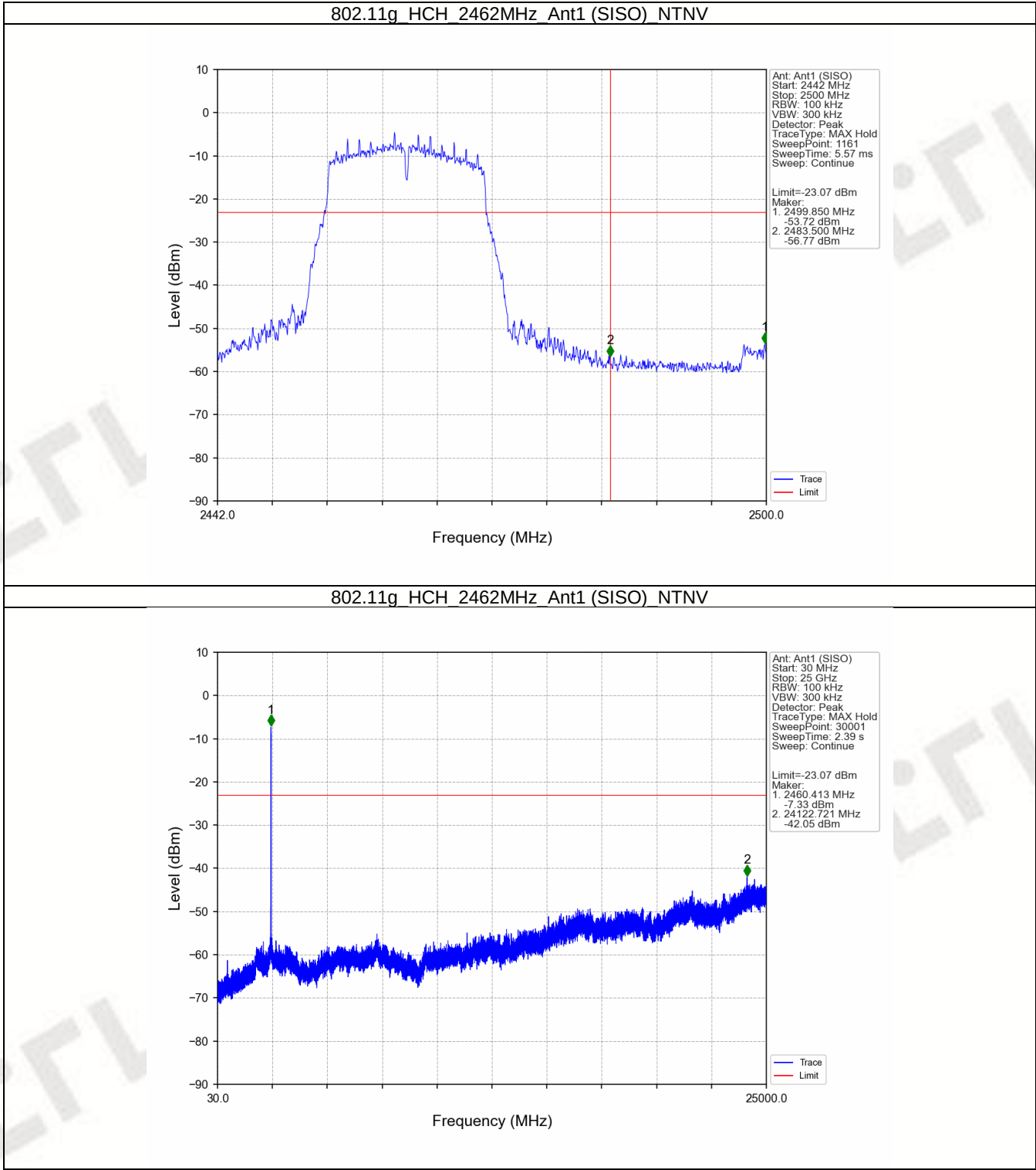
802.11g LCH 2412MHz Ant2 (SISO) NTN



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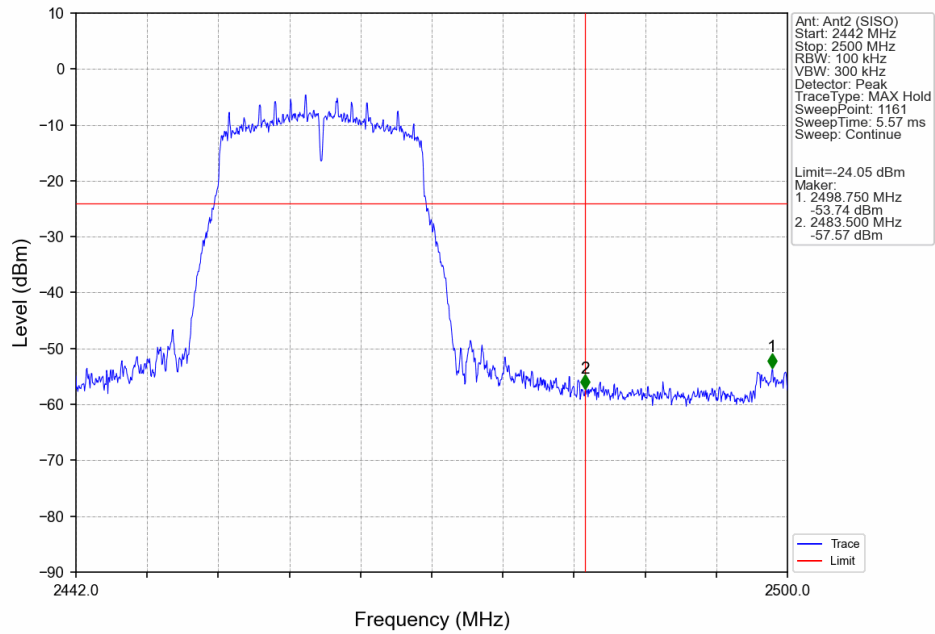


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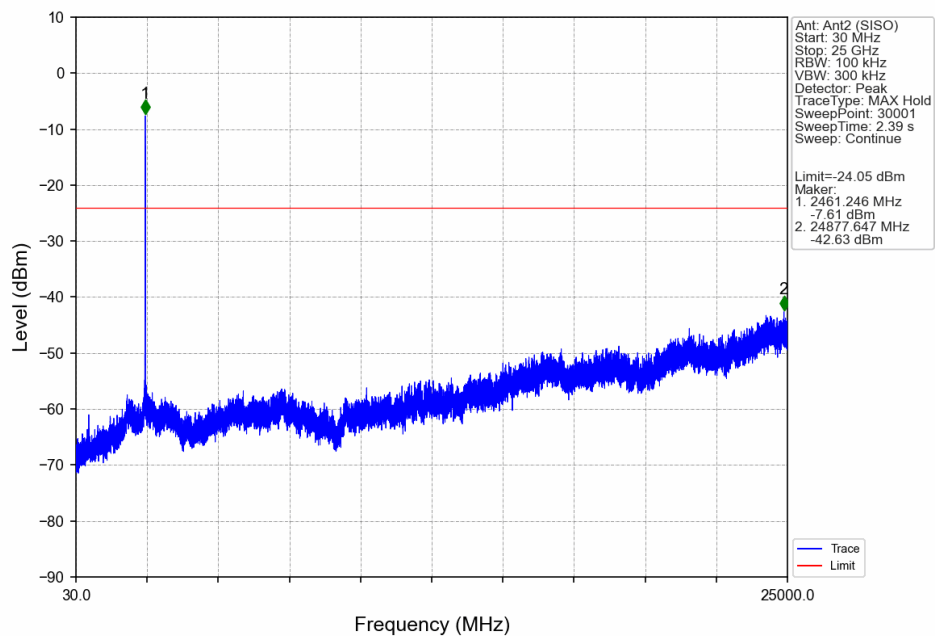


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802.11g HCH 2462MHz Ant2 (SISO) NTN

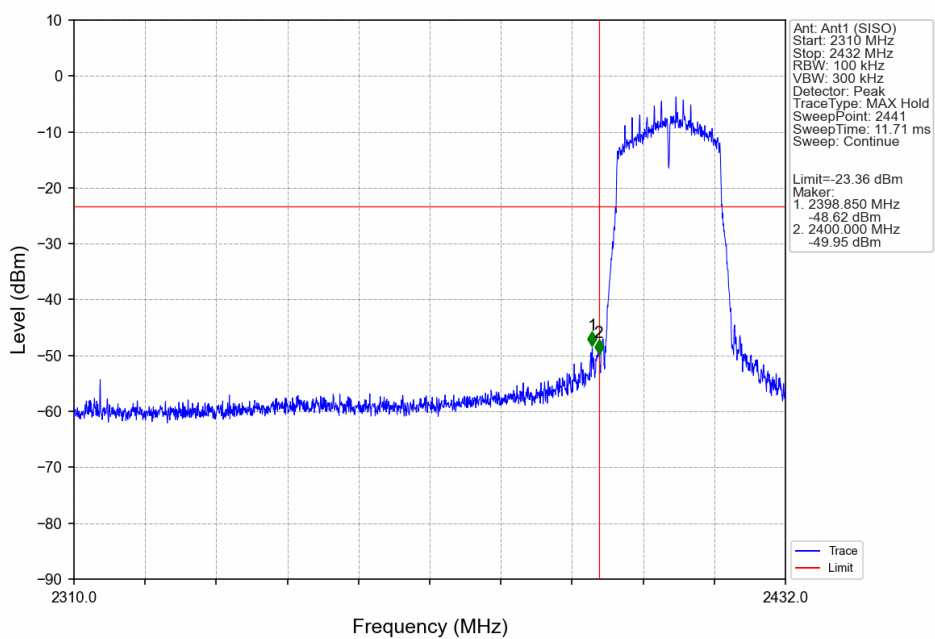


802.11g HCH 2462MHz Ant2 (SISO) NTN



FCCID: 2AYHD-SR01

802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV



802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV

