

10 Appendix

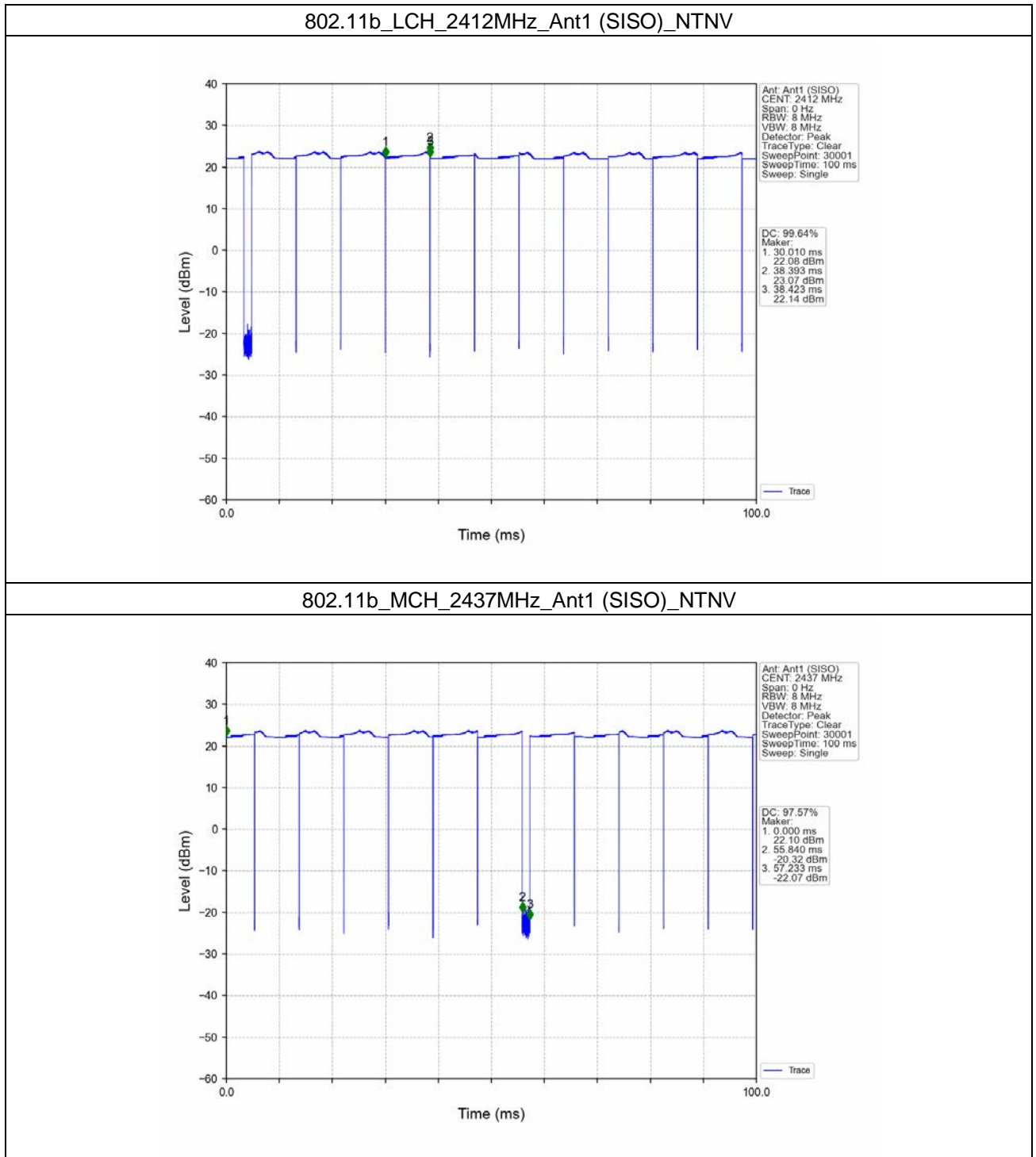
1. Duty Cycle

1.1 Ant1

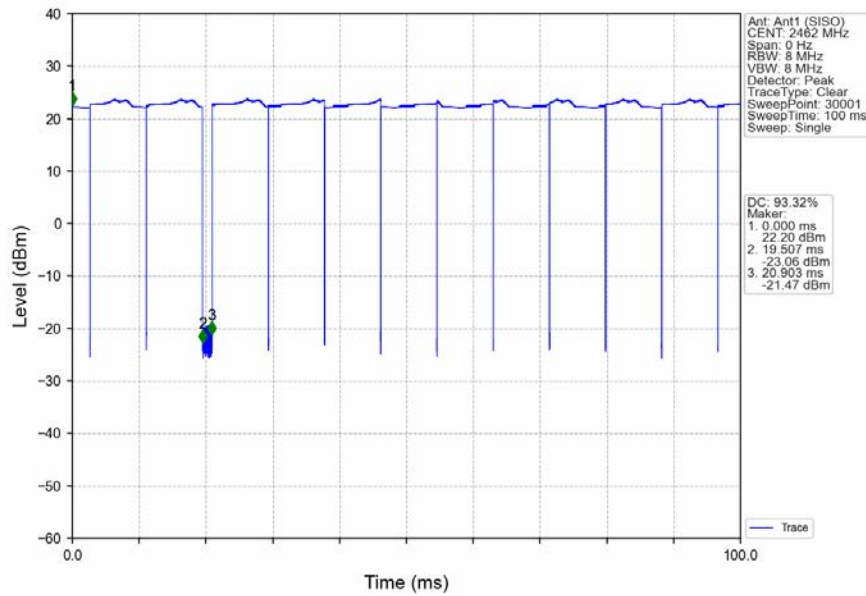
1.1.1 Test Result

Ant1									
Mode	Tx Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	/	/	8.383	8.413	99.64	0.02	0.04
		2437	/	/	55.840	57.233	97.57	0.11	0.00
		2462	/	/	19.507	20.903	93.32	0.30	0.00
802.11g	SISO	2412	/	/	16.913	17.923	94.36	0.25	0.00
		2437	/	/	66.317	67.377	98.43	0.07	0.00
		2462	/	/	24.607	25.660	95.90	0.18	0.00
802.11n (HT20)	MIMO	2412	/	/	54.754	55.630	98.43	0.07	1.07
		2437	/	/	21.344	22.300	95.71	0.19	4.25
		2462	/	/	41.903	42.857	97.77	0.10	0.00
802.11n (HT40)	MIMO	2422	/	/	25.260	25.890	97.57	0.11	0.00
		2437	/	/	0.649	1.287	50.43	2.97	44.54
		2452	/	/	21.767	22.407	97.14	0.13	0.00
802.11ax (HEW20)	MIMO	2412	RU242	Left	26.923	27.500	97.90	0.09	0.00
		2437	RU242	Left	51.517	52.167	98.75	0.05	0.00
		2462	RU242	Left	29.350	30.020	97.77	0.10	0.00
802.11ax (HEW40)	MIMO	2422	RU484	Left	45.730	46.190	99.00	0.04	0.00
		2437	RU484	Left	53.647	54.140	99.09	0.04	0.00
		2452	RU484	Left	58.413	58.927	99.13	0.04	0.00

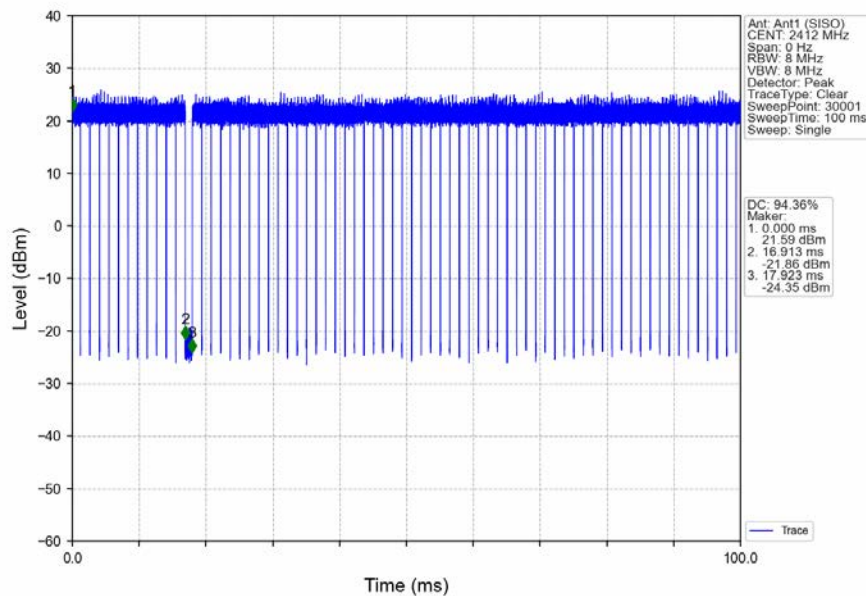
1.1.2 Test Graph



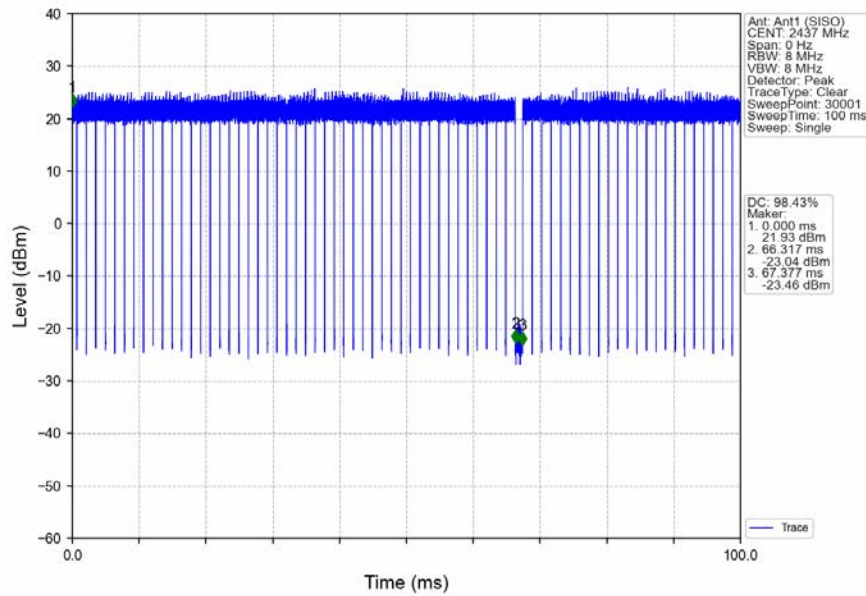
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



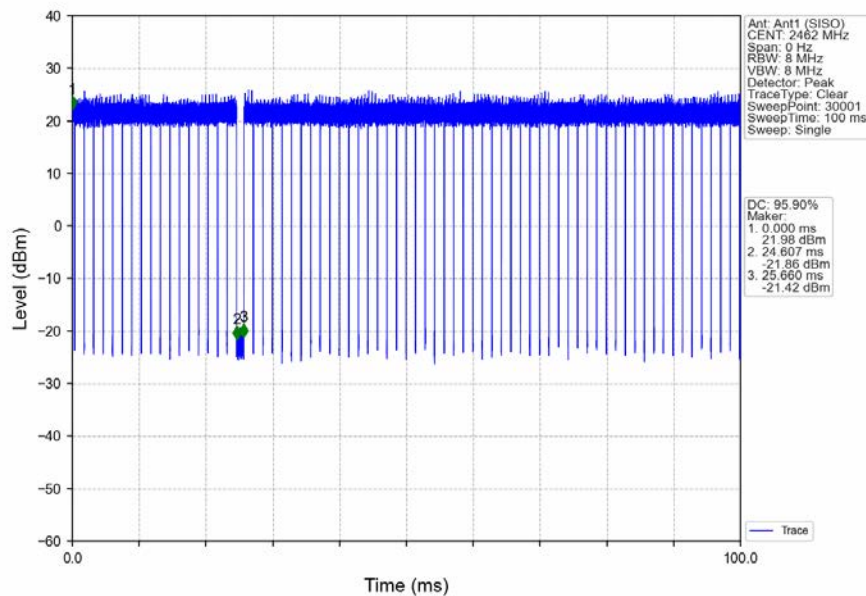
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



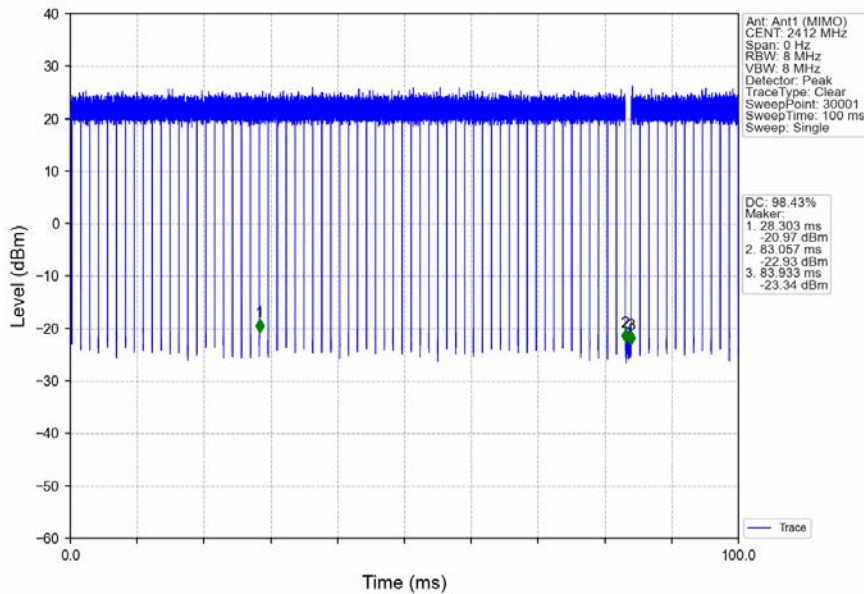
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



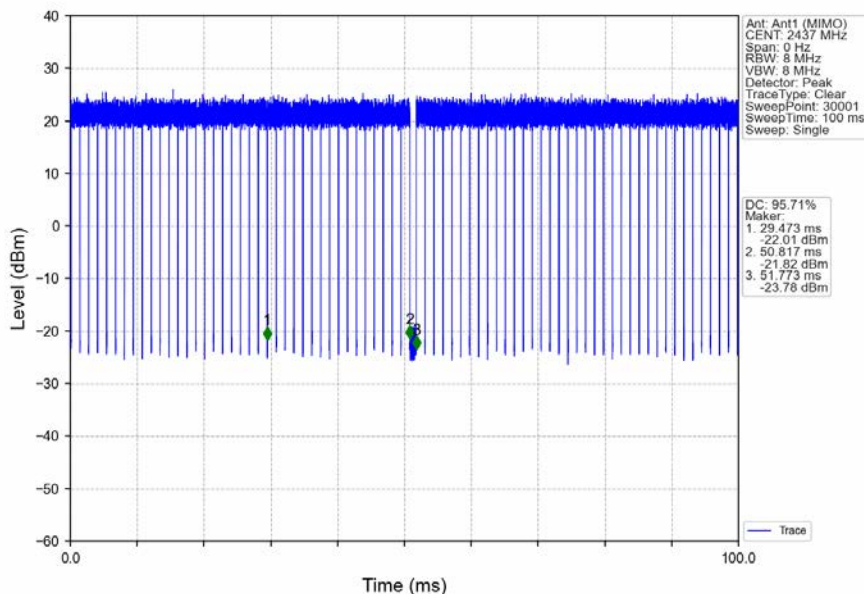
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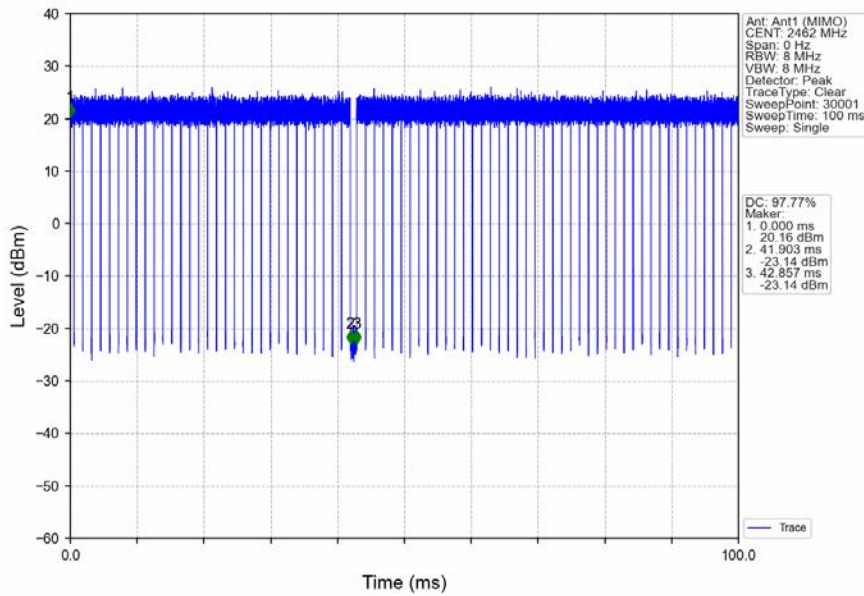
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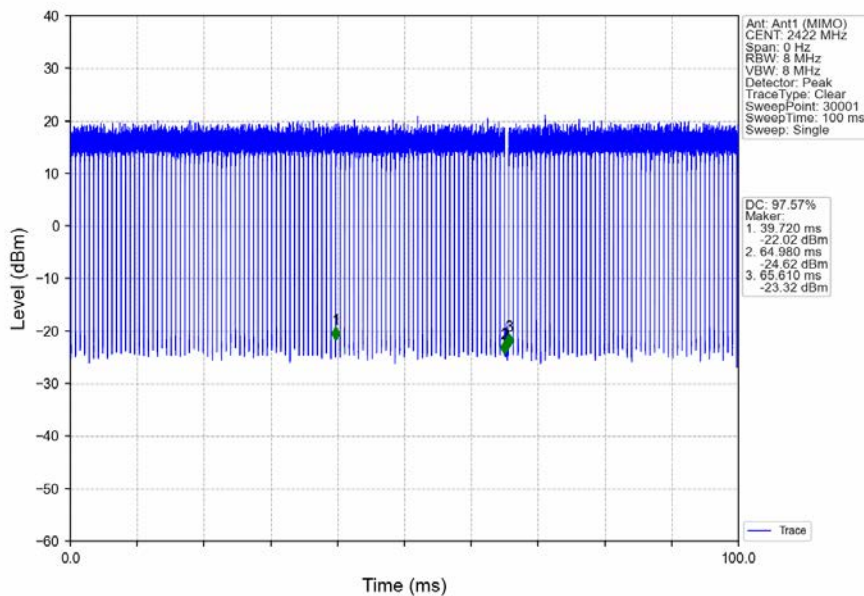
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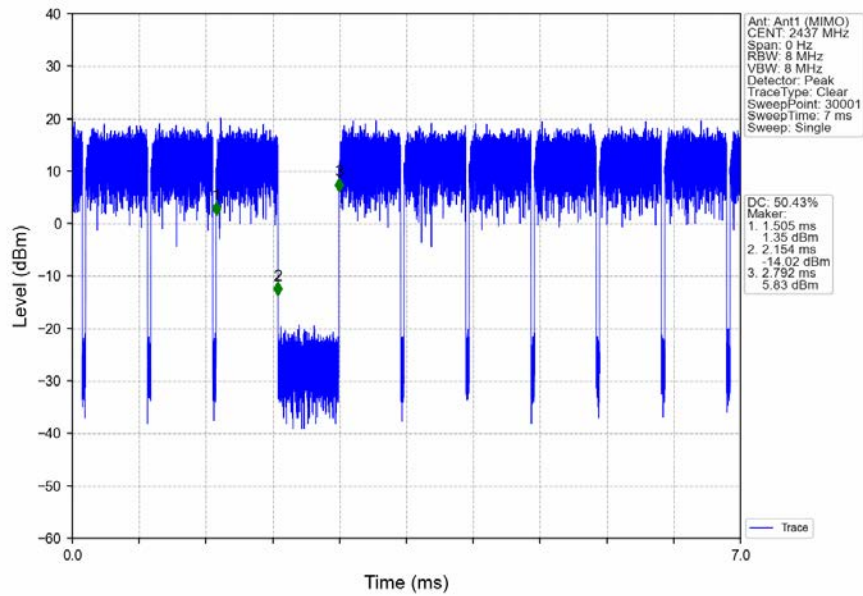
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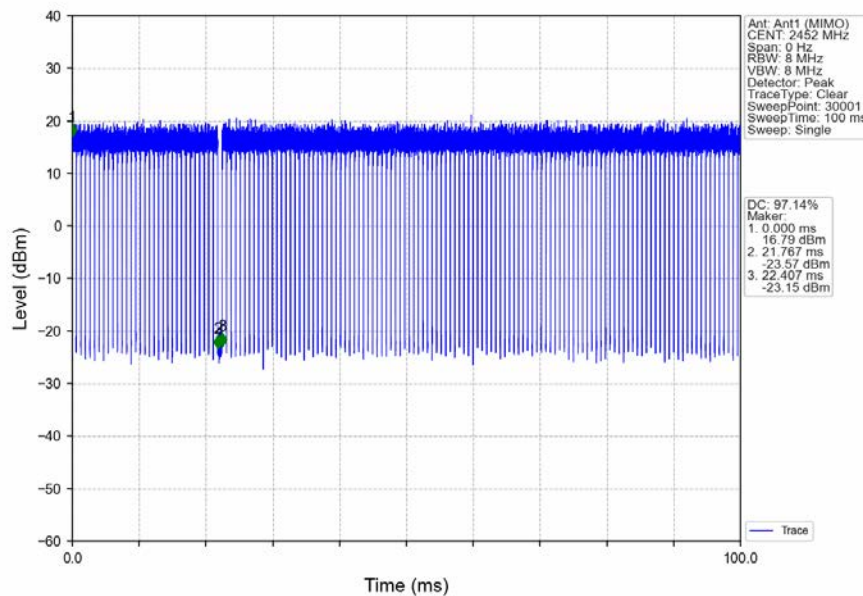
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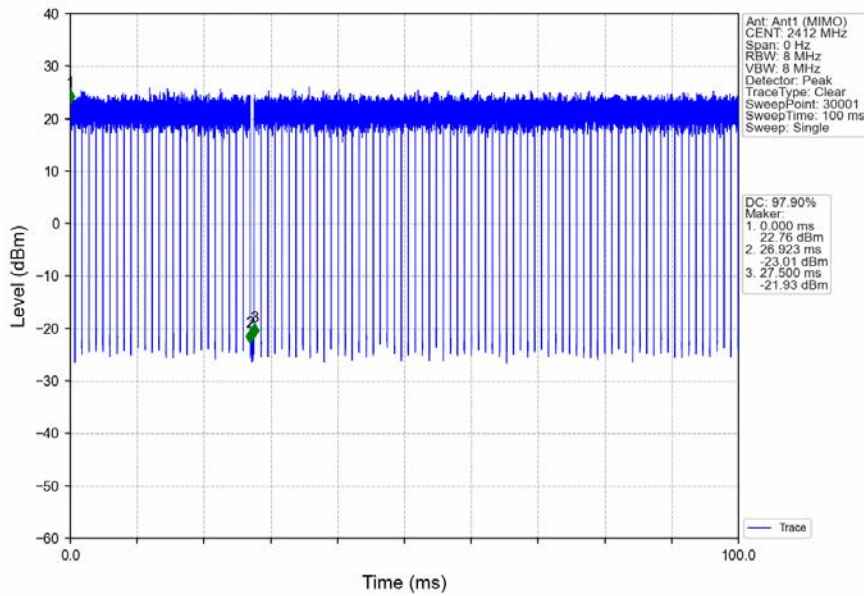
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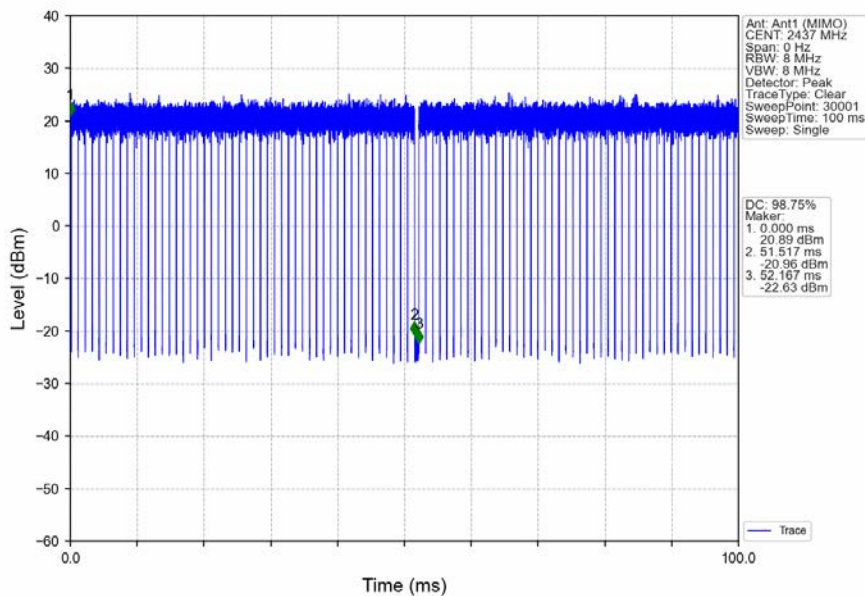
802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV



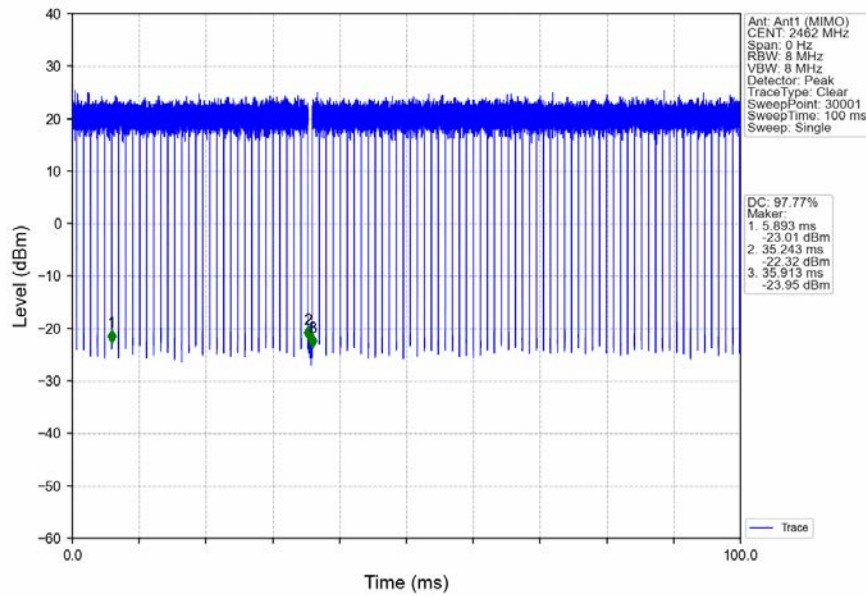
802.11ax(HEW20)_LCH_2412MHz_RU242_Left_Ant1 (MIMO)_NTNV



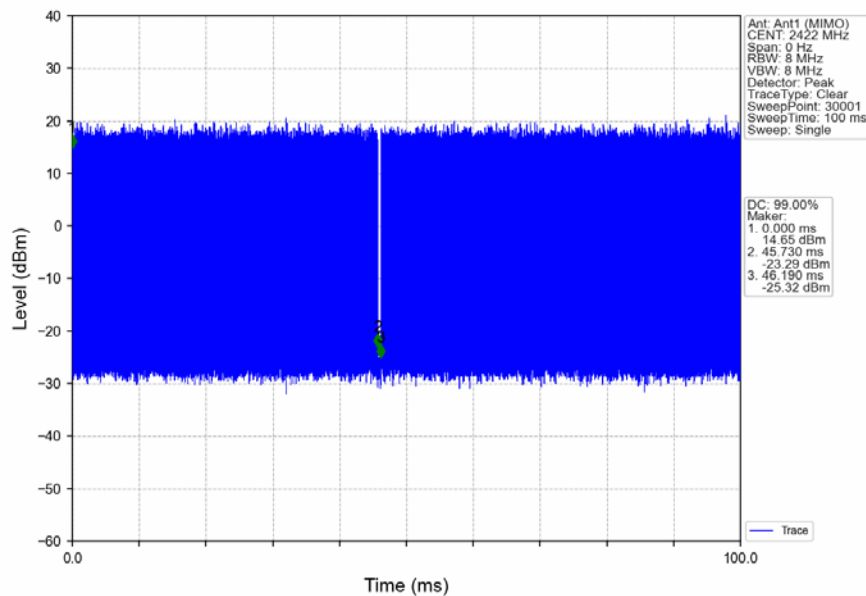
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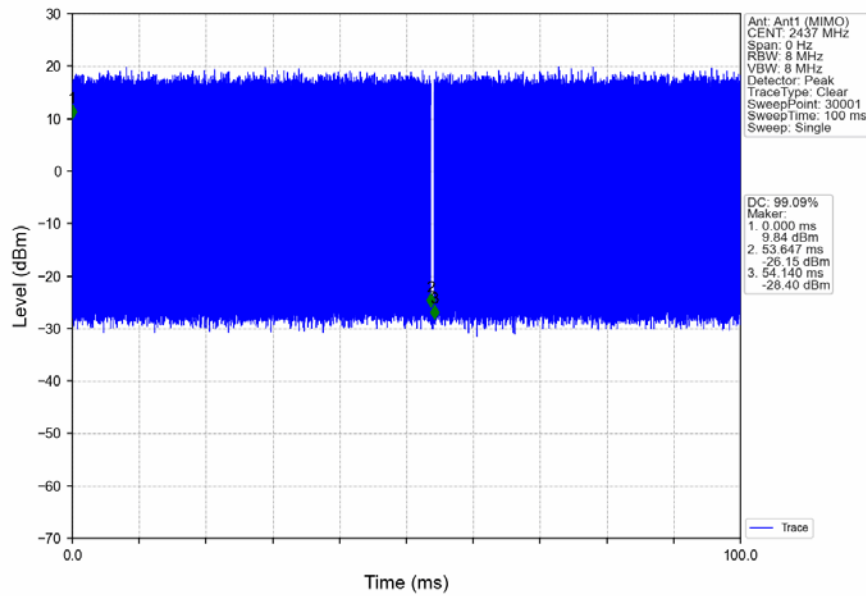
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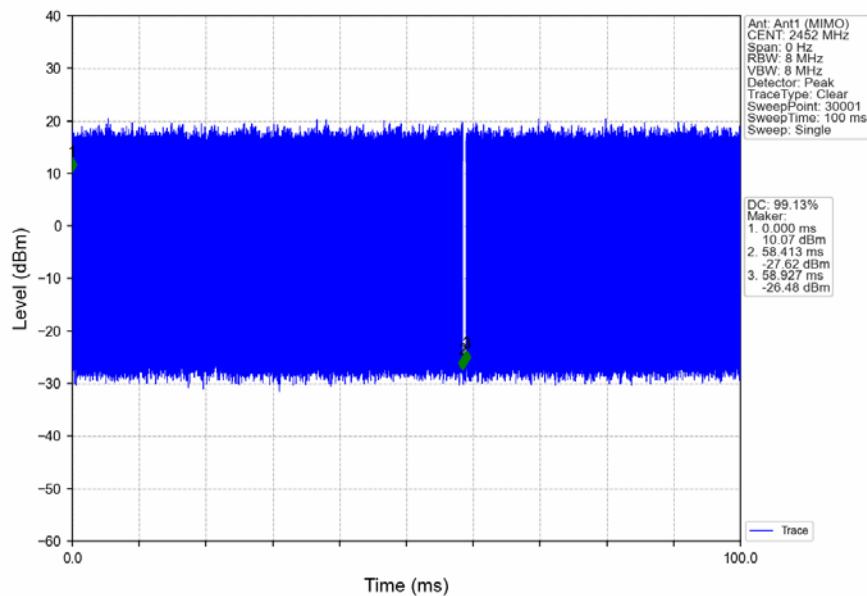
802.11ax(HEW40)_LCH_2422MHz_RU484_Left_Ant1 (MIMO)_NTNV



802.11ax(HEW40)_MCH_2437MHz_RU484_Left_Ant1 (MIMO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_RU484_Left_Ant1 (MIMO)_NTNV



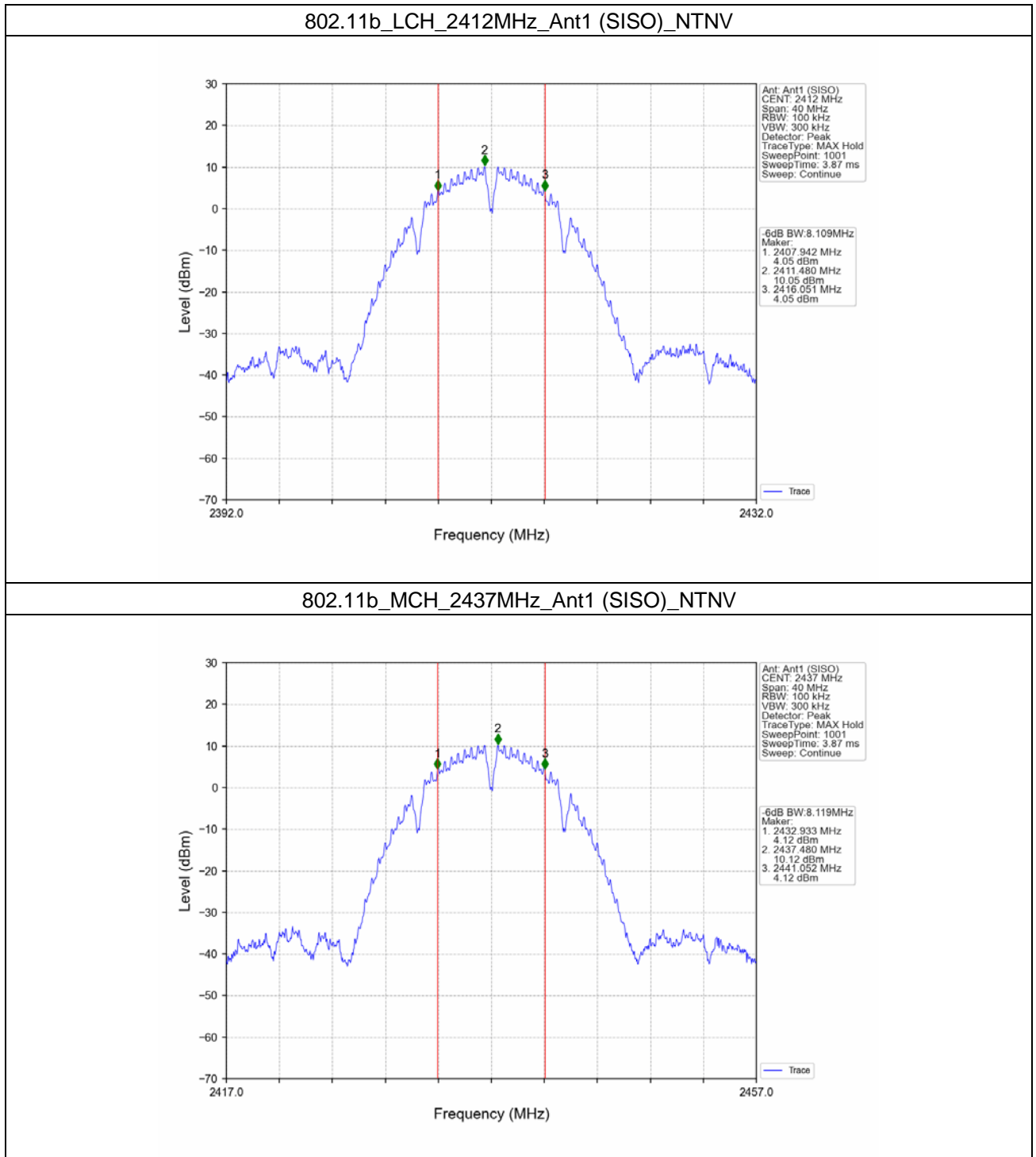
2. Bandwidth

2.1 6dB BW

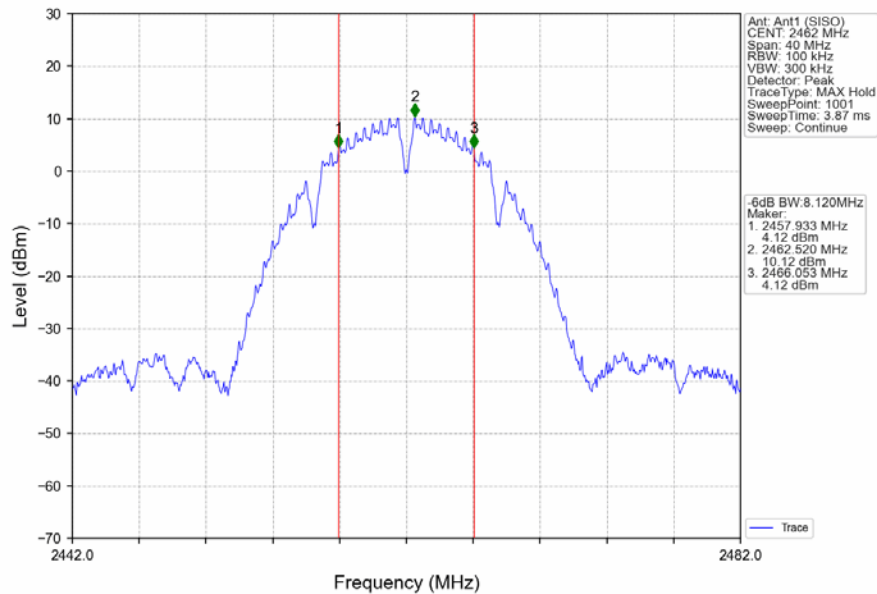
2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	SISO	2412	/	/	1	8.109	≥ 0.5	Pass
		2437	/	/	1	8.119	≥ 0.5	Pass
		2462	/	/	1	8.120	≥ 0.5	Pass
802.11g	SISO	2412	/	/	1	15.132	≥ 0.5	Pass
		2437	/	/	1	15.171	≥ 0.5	Pass
		2462	/	/	1	15.178	≥ 0.5	Pass
802.11n (HT20)	MIMO	2412	/	/	1	15.152	≥ 0.5	Pass
		2437	/	/	1	15.176	≥ 0.5	Pass
		2462	/	/	1	15.179	≥ 0.5	Pass
802.11n (HT40)	MIMO	2422	/	/	1	35.146	≥ 0.5	Pass
		2437	/	/	1	35.156	≥ 0.5	Pass
		2452	/	/	1	35.148	≥ 0.5	Pass
802.11ax (HEW20)	MIMO	2412	RU242	Left	1	18.306	≥ 0.5	Pass
		2437	RU242	Left	1	18.332	≥ 0.5	Pass
		2462	RU242	Left	1	18.413	≥ 0.5	Pass
802.11ax (HEW40)	MIMO	2422	RU484	Left	1	37.155	≥ 0.5	Pass
		2437	RU484	Left	1	37.133	≥ 0.5	Pass
		2452	RU484	Left	1	37.071	≥ 0.5	Pass

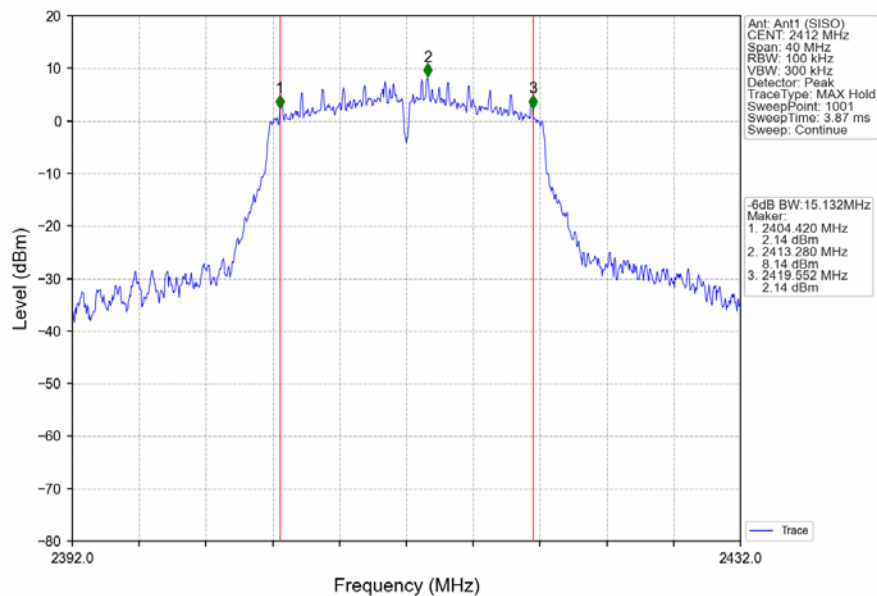
2.2.2 Test Graph



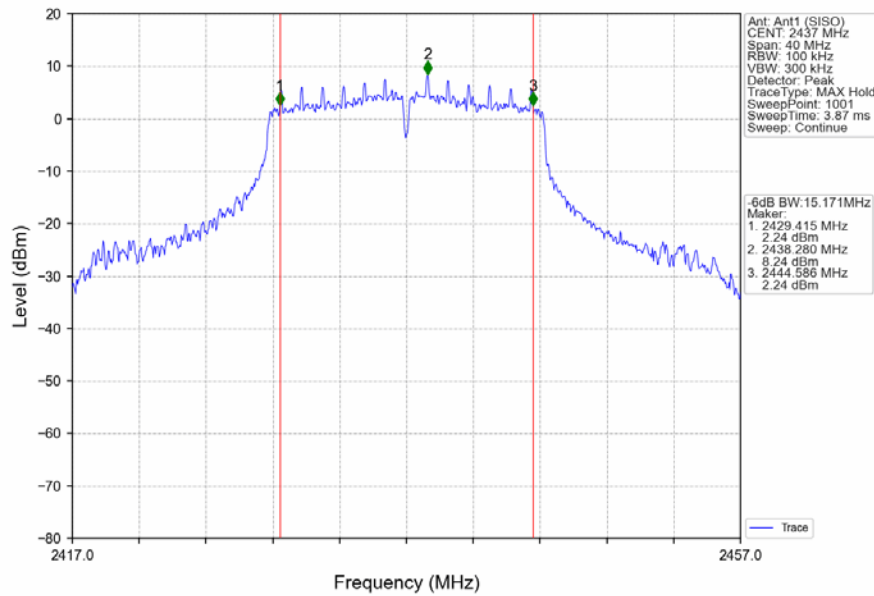
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



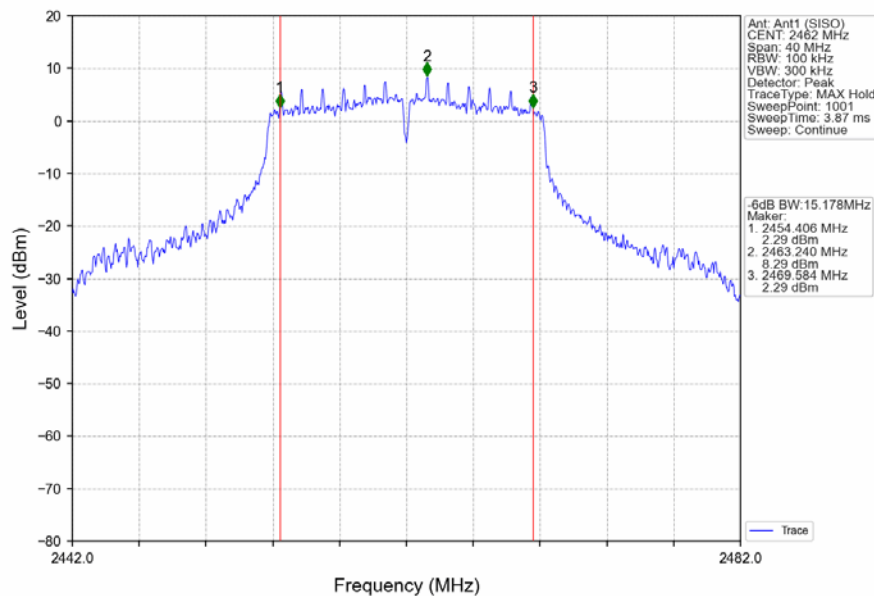
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



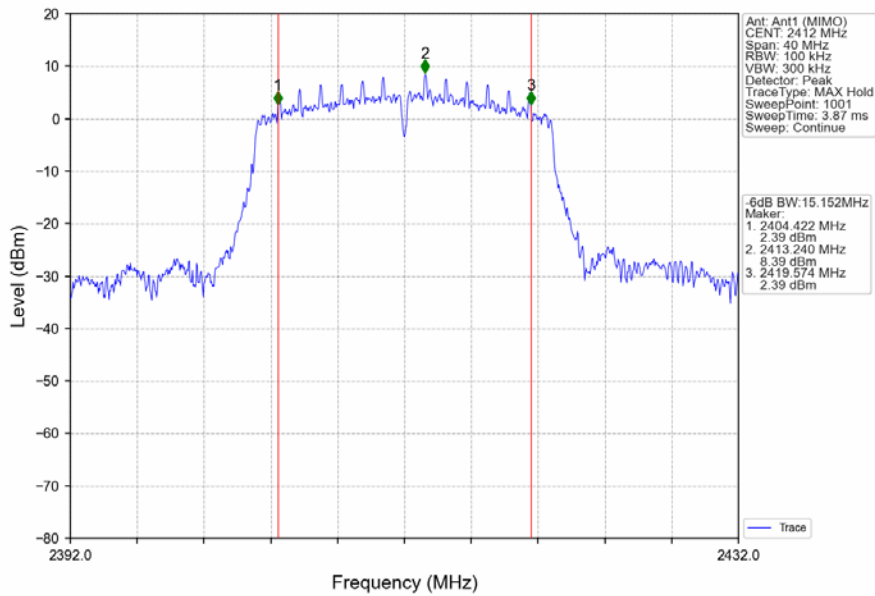
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



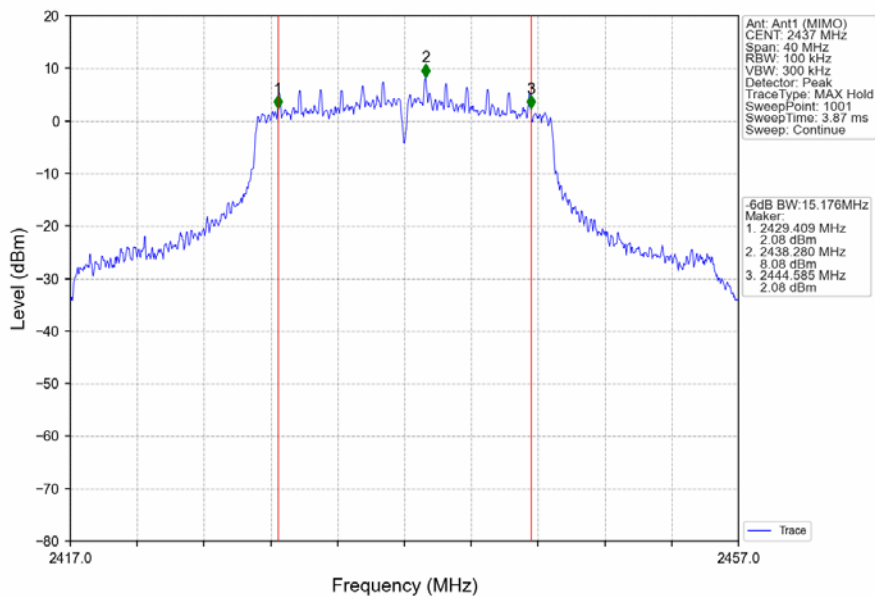
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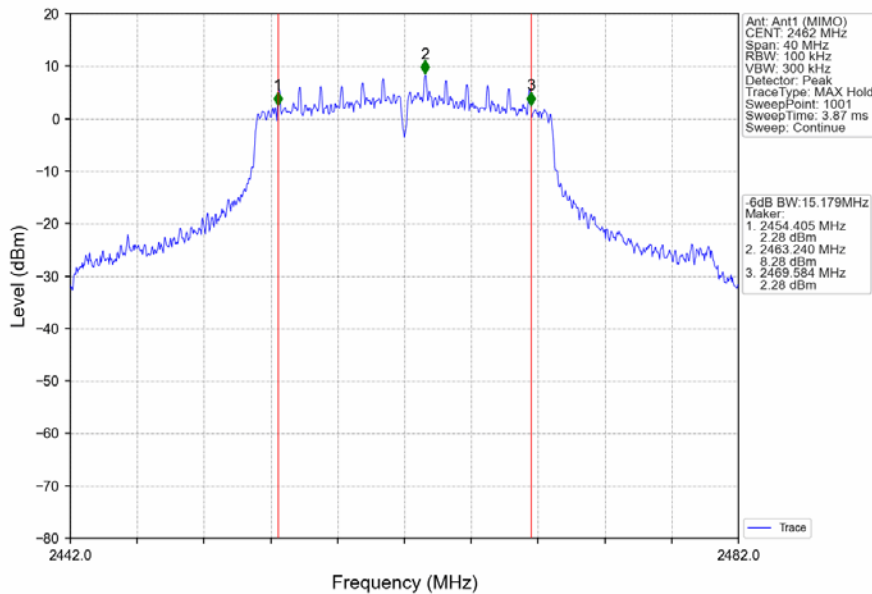
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



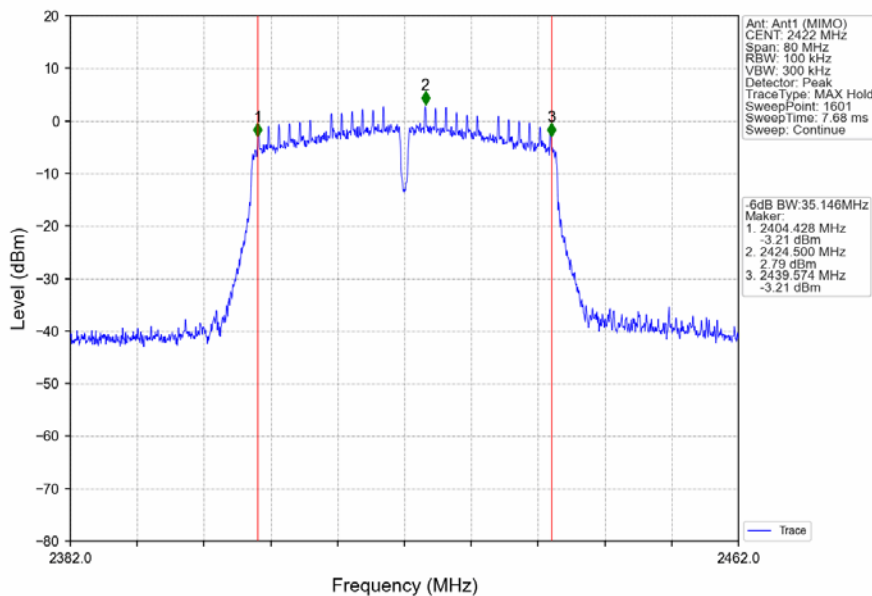
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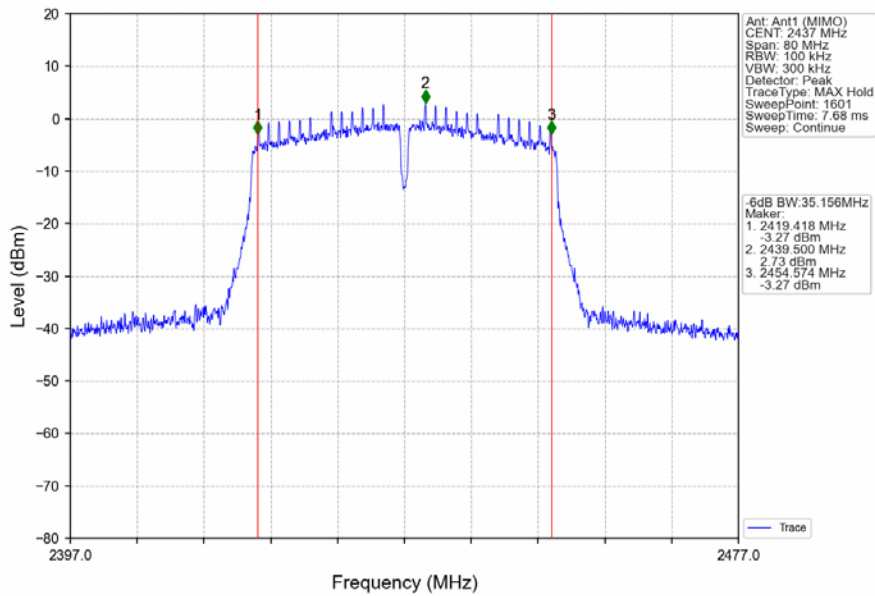
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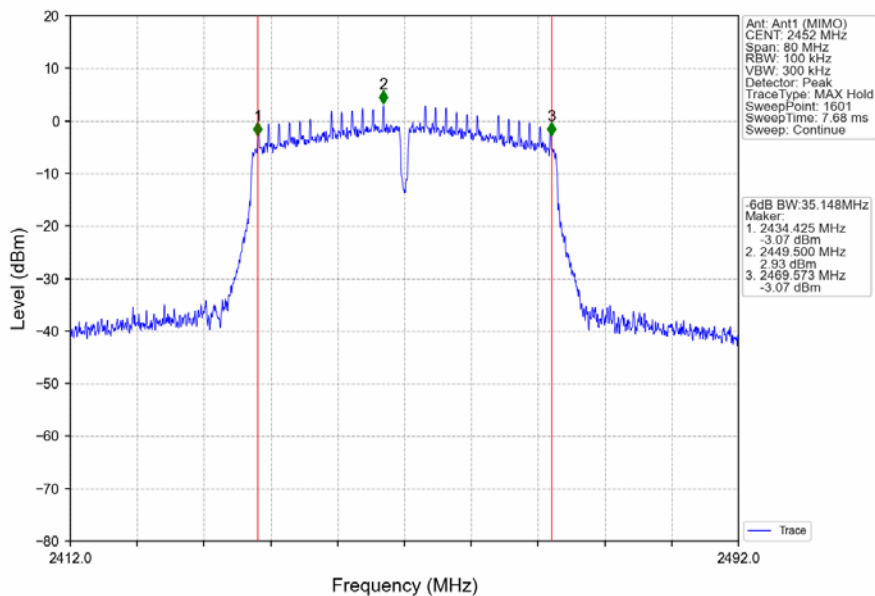
802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



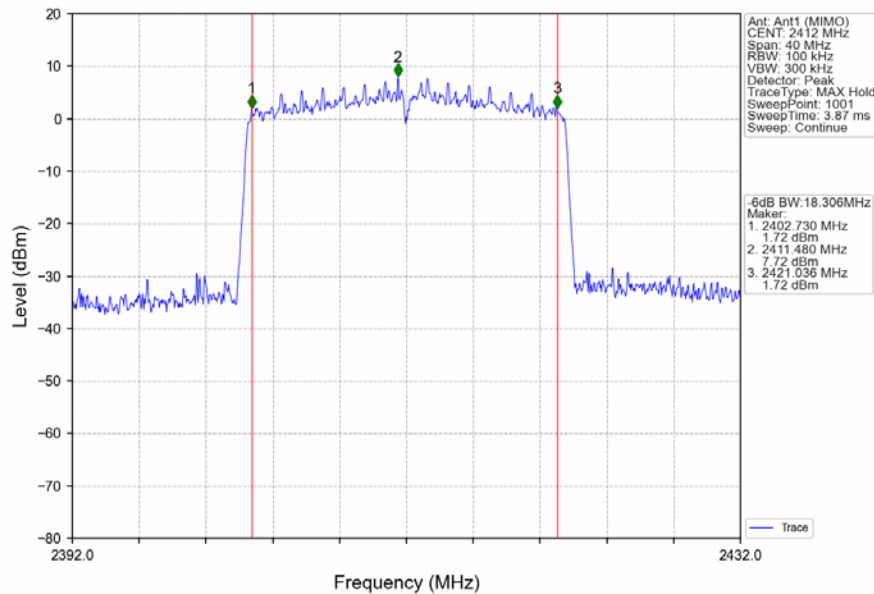
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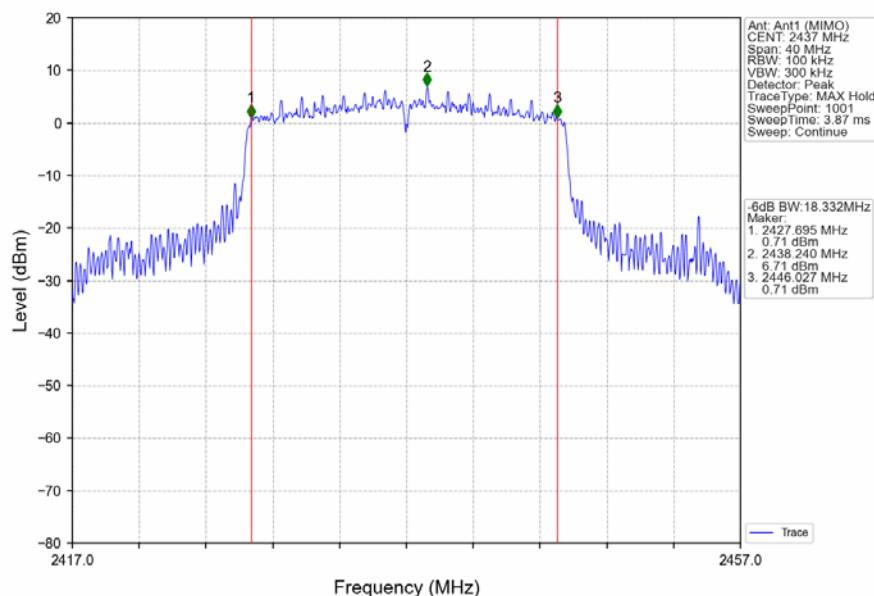
802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV



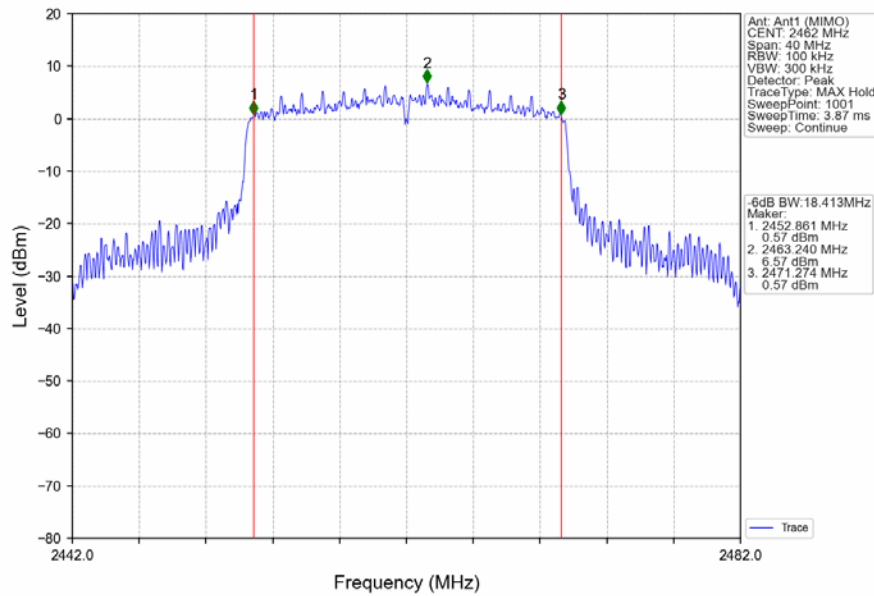
802.11ax(HEW20)_LCH_2412MHz_RU242_Left_Ant1 (MIMO)_NTNV



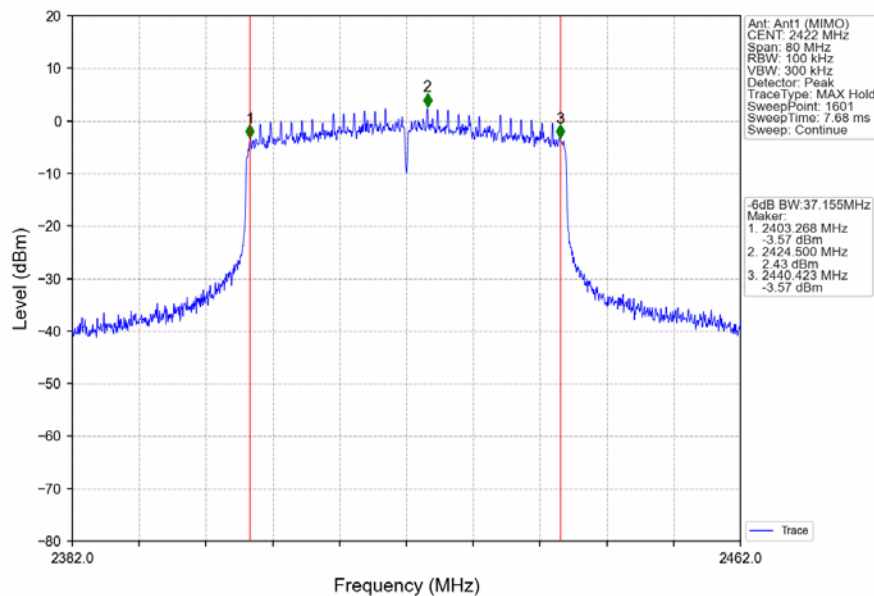
802.11ax(HEW20)_MCH_2437MHz_RU242_Left_Ant1 (MIMO)_NTNV



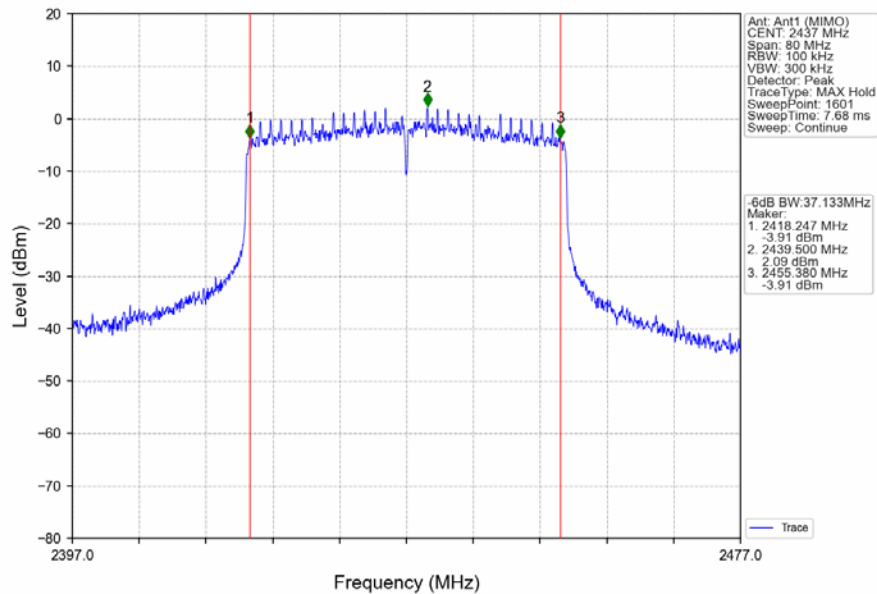
802.11ax(HEW20)_HCH_2462MHz_RU242_Left_Ant1 (MIMO)_NTNV



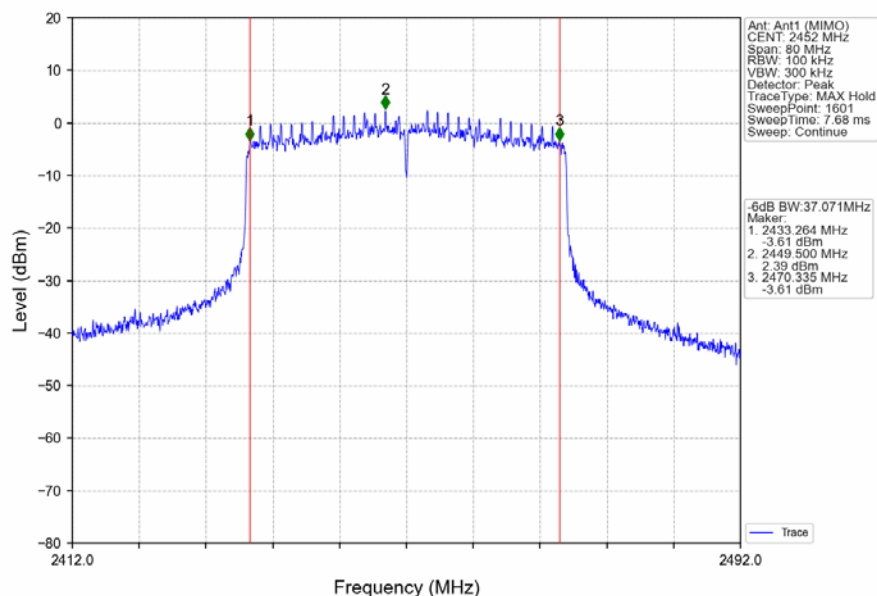
802.11ax(HEW40)_LCH_2422MHz_RU484_Left_Ant1 (MIMO)_NTNV



802.11ax(HEW40)_MCH_2437MHz_RU484_Left_Ant1 (MIMO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_RU484_Left_Ant1 (MIMO)_NTNV



3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum Peak Conducted Output Power (dBm)				Verdict
					ANT1	ANT2	MIMO	Limit	
802.11b	SISO	2412	/	/	21.36	21.25	/	<=30	Pass
		2437	/	/	21.53	21.26	/	<=30	Pass
		2462	/	/	21.57	21.17	/	<=30	Pass
802.11g	SISO	2412	/	/	25.64	25.64	/	<=30	Pass
		2437	/	/	25.86	25.65	/	<=30	Pass
		2462	/	/	25.85	25.57	/	<=30	Pass
802.11n (HT20)	MIMO	2412	/	/	25.75	26.07	28.92	<=30	Pass
		2437	/	/	25.33	26.02	28.70	<=30	Pass
		2462	/	/	25.56	26.00	28.80	<=30	Pass
802.11n (HT40)	MIMO	2422	/	/	23.41	23.36	26.40	<=30	Pass
		2437	/	/	23.33	23.67	26.51	<=30	Pass
		2452	/	/	23.54	23.60	26.58	<=30	Pass
802.11ax (HEW20)	MIMO	2412	RU242	Left	26.31	26.29	29.31	<=30	Pass
		2437	RU242	Left	26.89	26.42	29.67	<=30	Pass
		2462	RU242	Left	26.73	26.19	29.48	<=30	Pass
802.11ax (HEW40)	MIMO	2422	RU484	Left	24.65	24.44	27.56	<=30	Pass
		2437	RU484	Left	24.83	24.39	27.63	<=30	Pass
		2452	RU484	Left	25.08	24.63	27.87	<=30	Pass

Note1: Antenna Gain: Ant1: 1.37dBi; Ant2: 1.63dBi;
Note2: Directional Gain: 4.64 dBi

4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/3kHz)				Verdict
					ANT1	ANT2	MIMO	Limit	
802.11b	SISO	2412	/	/	-5.02	-5.16	/	<=8	Pass
		2437	/	/	7.88	7.47	/	<=8	Pass
		2462	/	/	3.70	-5.16	/	<=8	Pass
802.11g	SISO	2412	/	/	-8.50	-8.13	/	<=8	Pass
		2437	/	/	-8.66	-8.99	/	<=8	Pass
		2462	/	/	-7.94	-9.08	/	<=8	Pass
802.11n (HT20)	MIMO	2412	/	/	-8.61	-7.53	-5.92	<=8	Pass
		2437	/	/	-8.62	-7.99	-5.84	<=8	Pass
		2462	/	/	-8.29	-7.22	-5.50	<=8	Pass
802.11n (HT40)	MIMO	2422	/	/	-12.26	-13.13	-10.05	<=8	Pass
		2437	/	/	-13.11	-13.82	-10.87	<=8	Pass
		2452	/	/	-13.35	-12.53	-9.91	<=8	Pass
802.11ax (HEW20)	MIMO	2412	RU242	Left	-9.47	-7.83	-6.55	<=8	Pass
		2437	RU242	Left	-10.51	-9.88	-7.55	<=8	Pass
		2462	RU242	Left	-9.57	-9.27	-6.40	<=8	Pass
802.11ax (HEW40)	MIMO	2422	RU484	Left	-8.73	-9.06	-5.88	<=8	Pass
		2437	RU484	Left	-8.73	-9.88	-6.55	<=8	Pass
		2452	RU484	Left	-7.65	-8.94	-5.65	<=8	Pass

Note1: Antenna Gain: Ant1: 1.37dBi; Ant2: 1.63dBi;

Note2: Directional Gain: 4.64 dBi



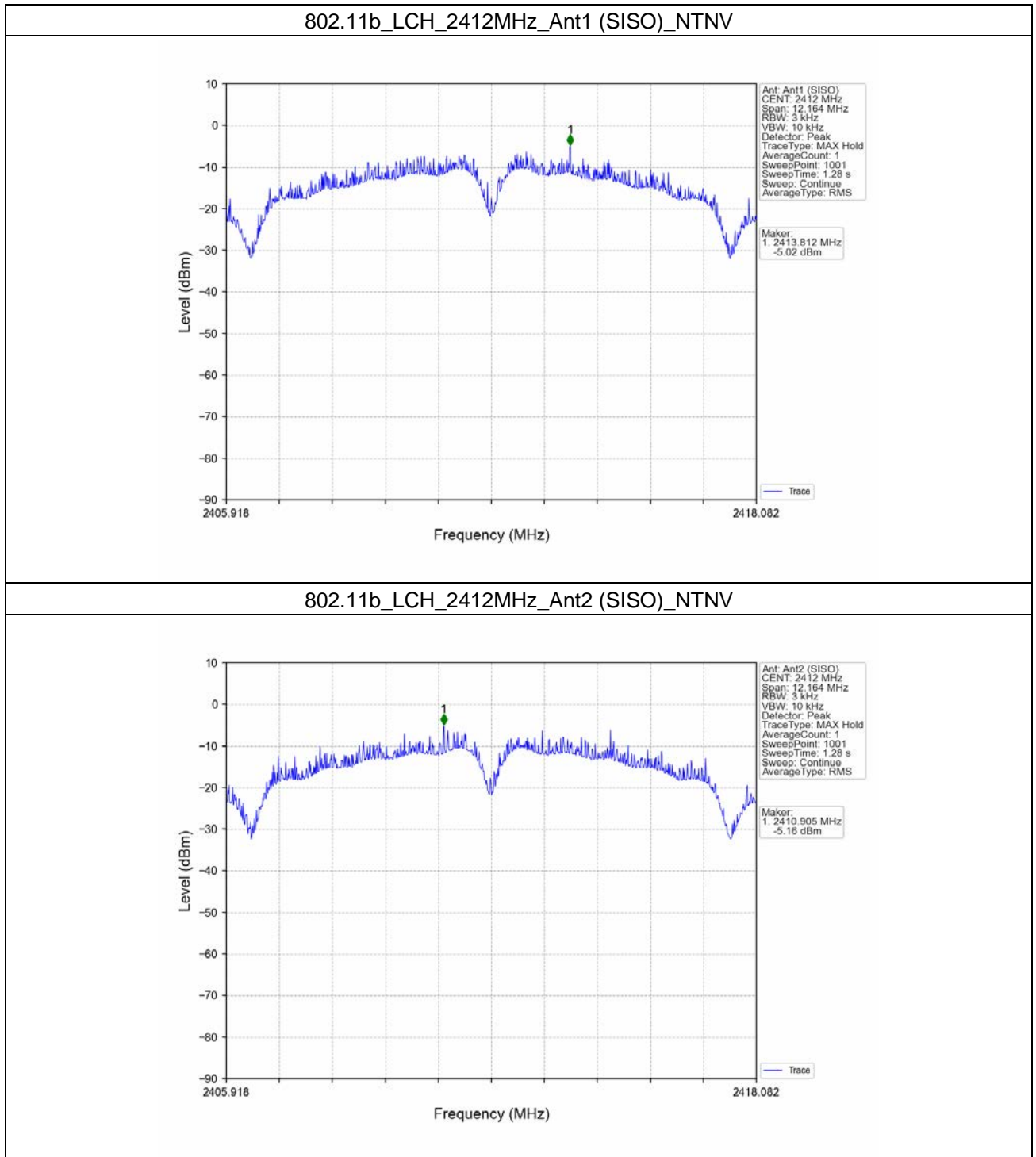
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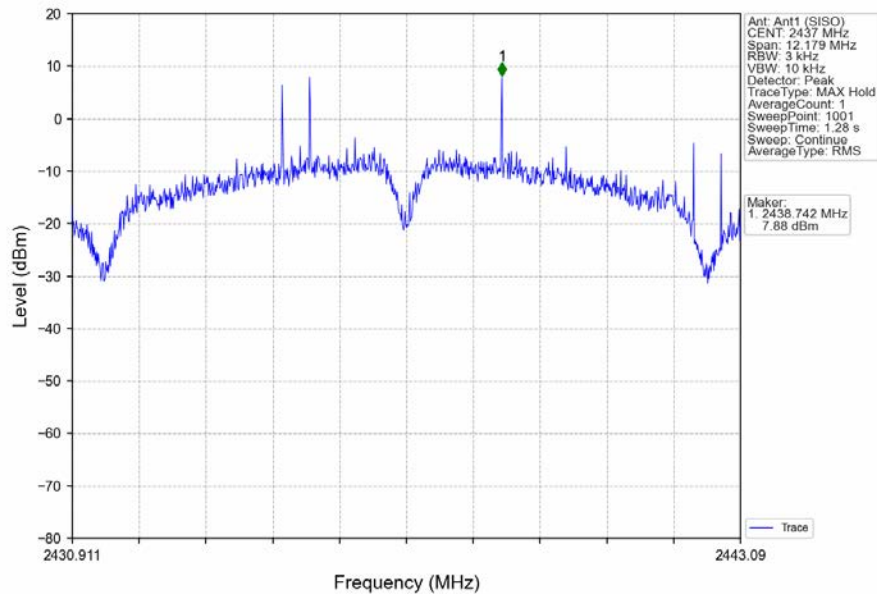
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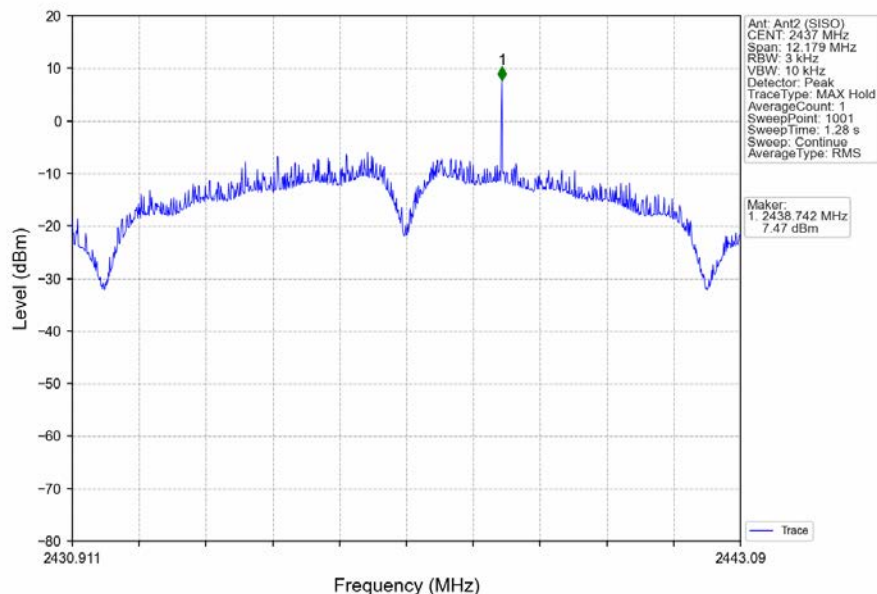
4.1.2 Test Graph



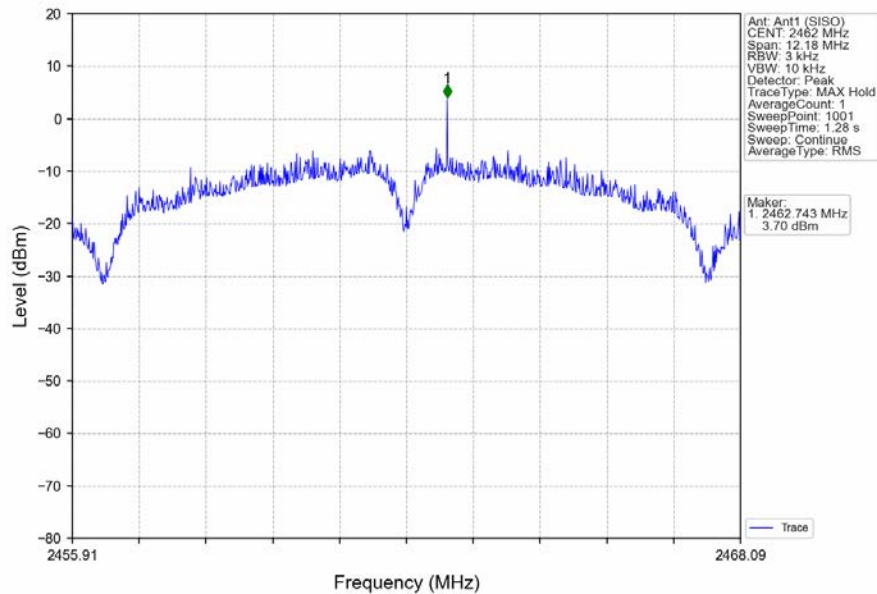
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



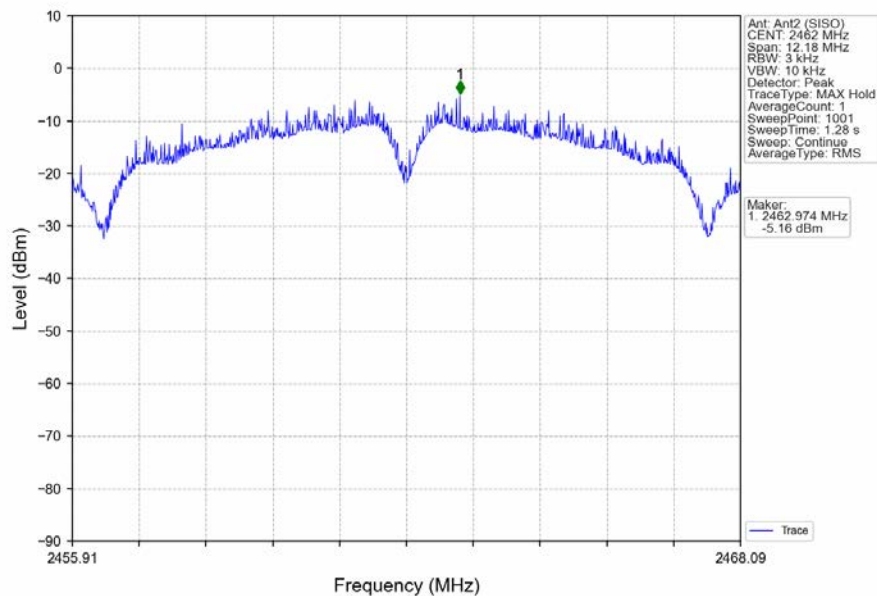
802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



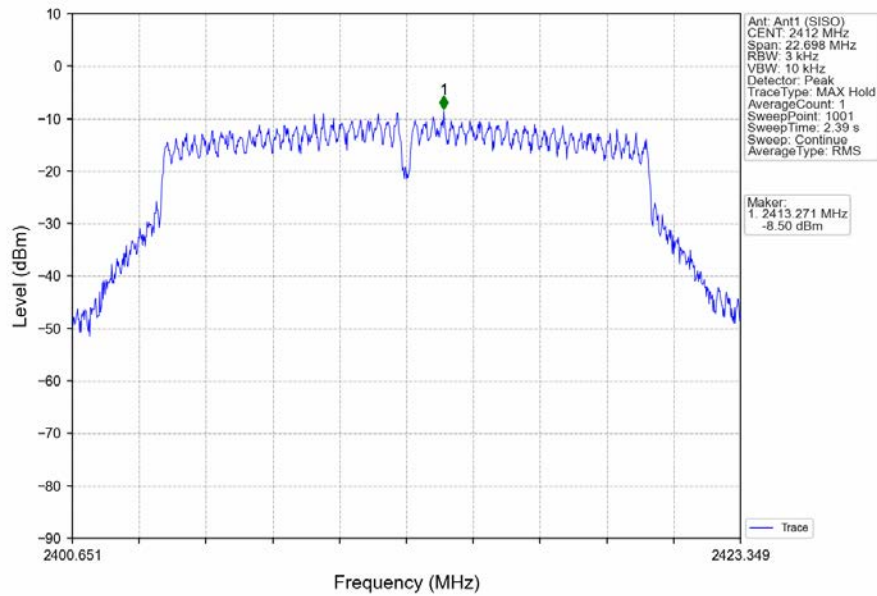
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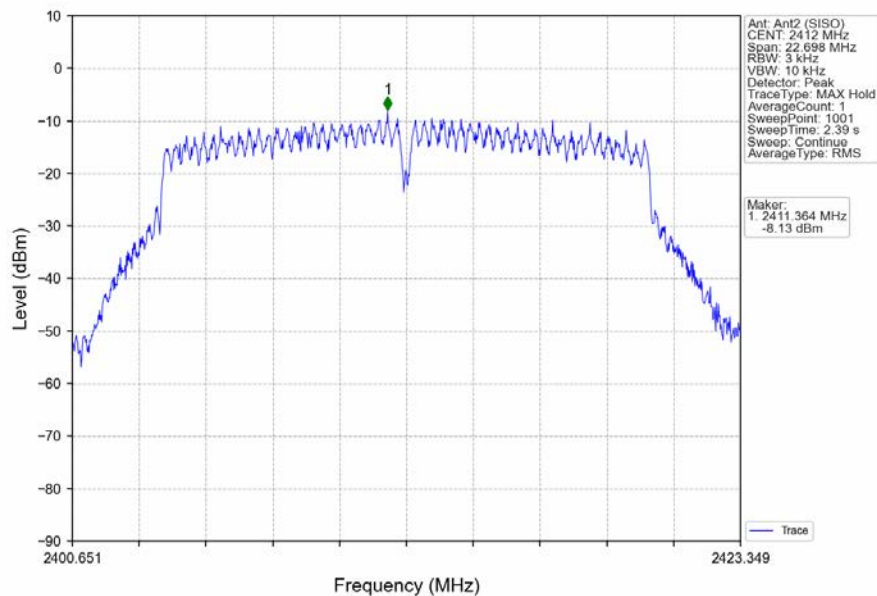
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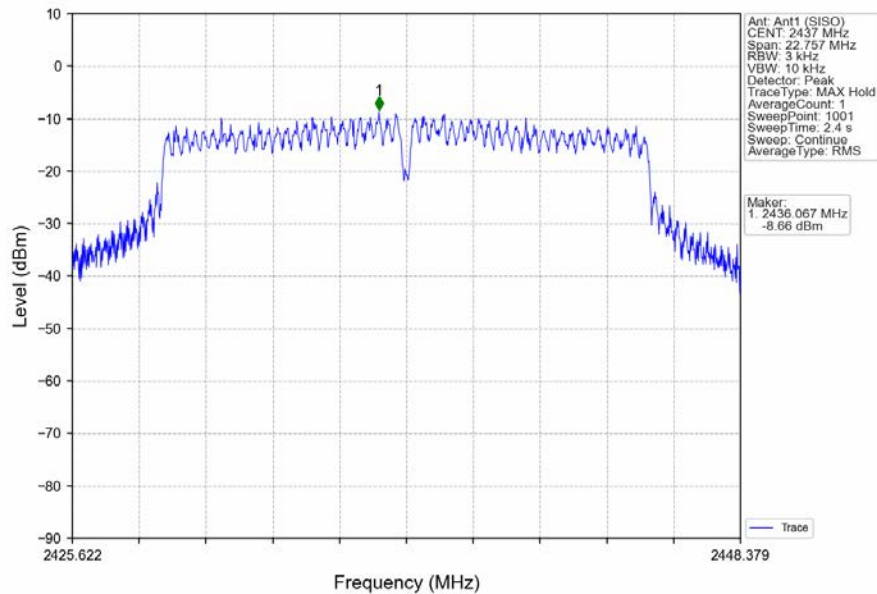
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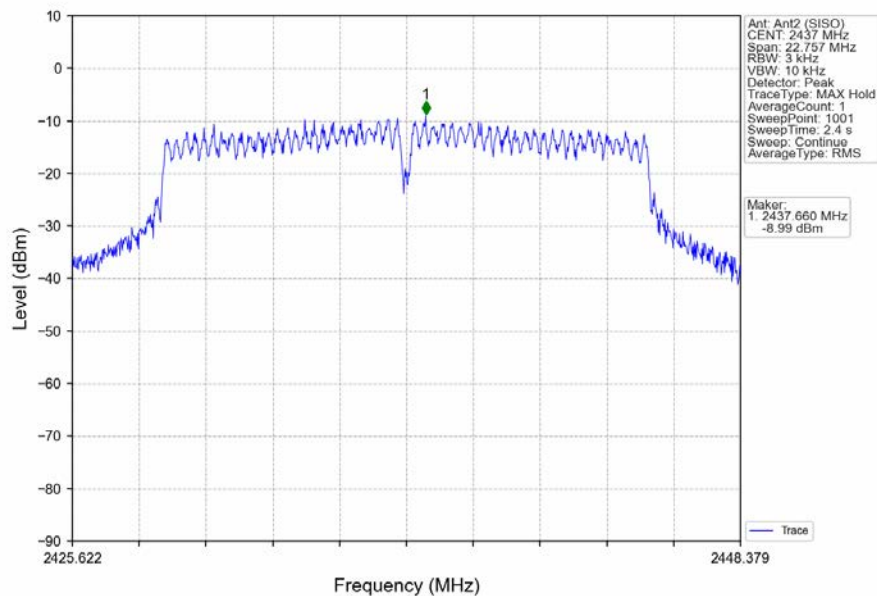
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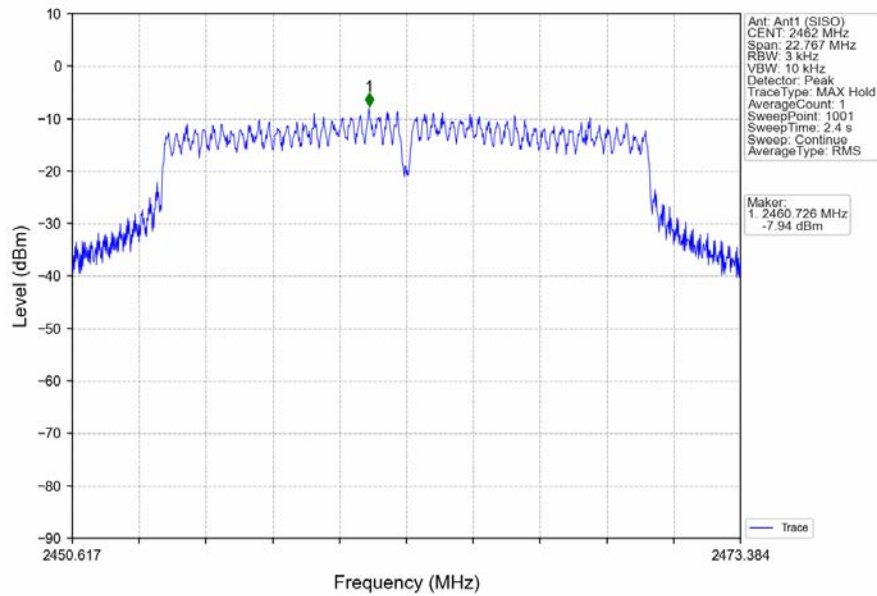
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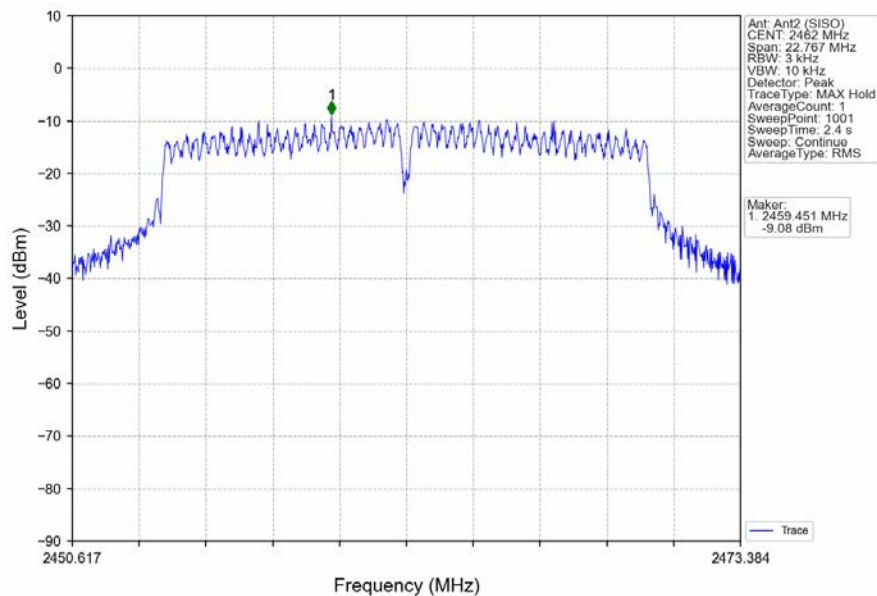
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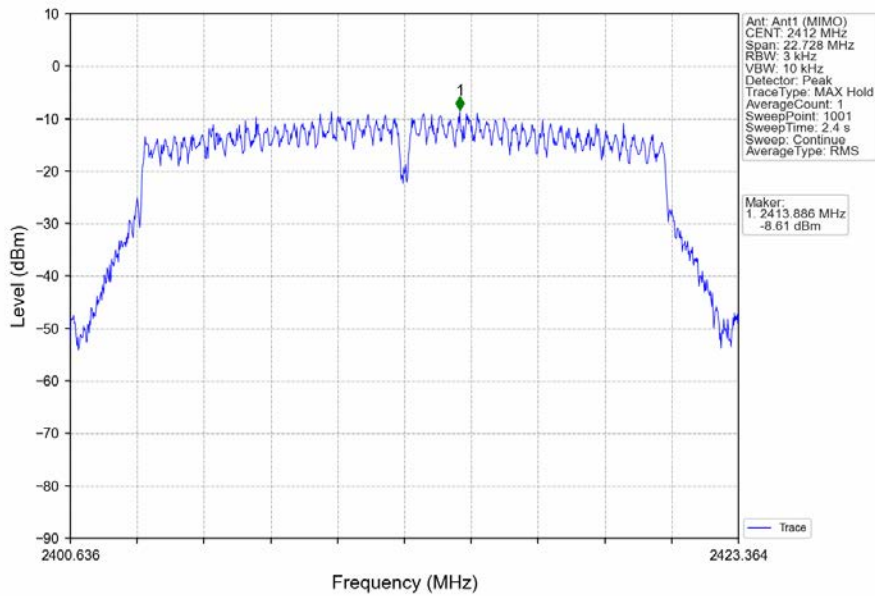
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



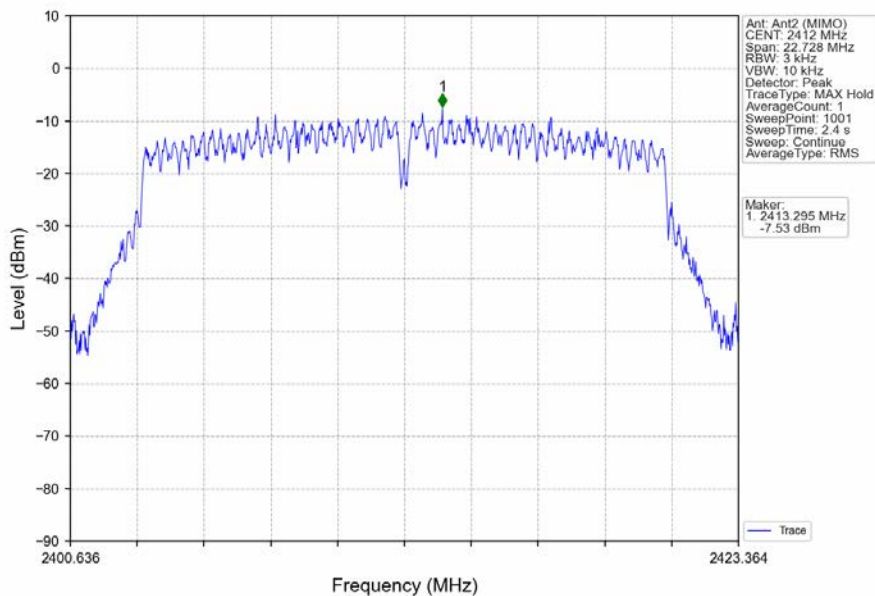
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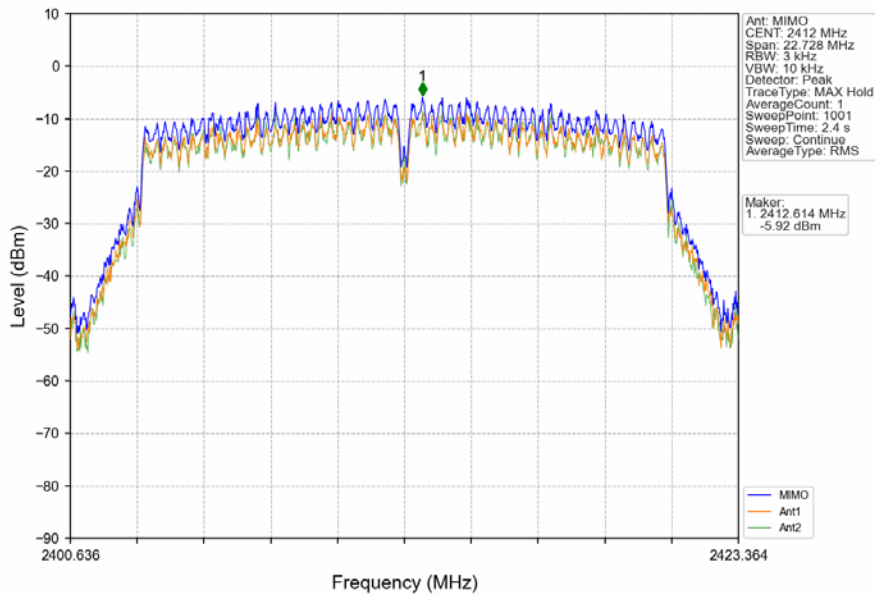
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



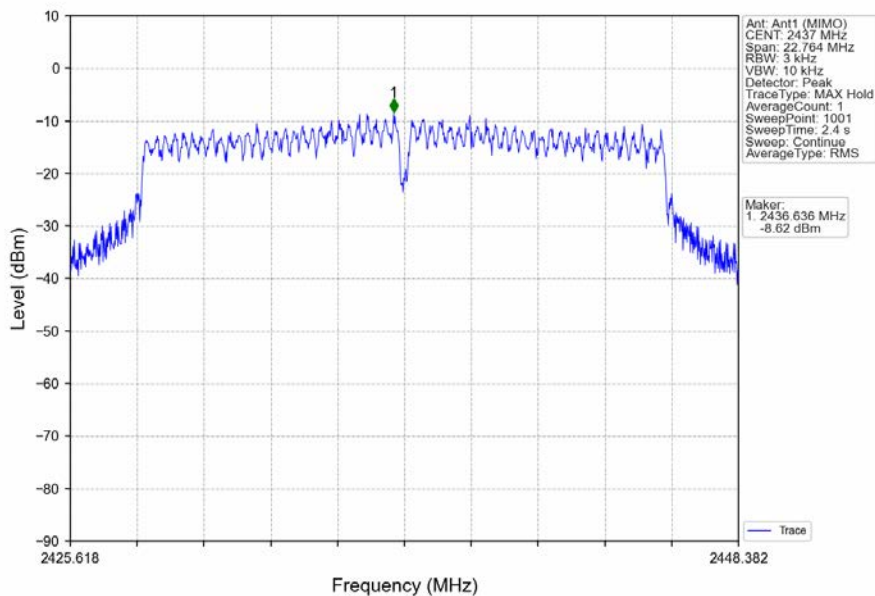
802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



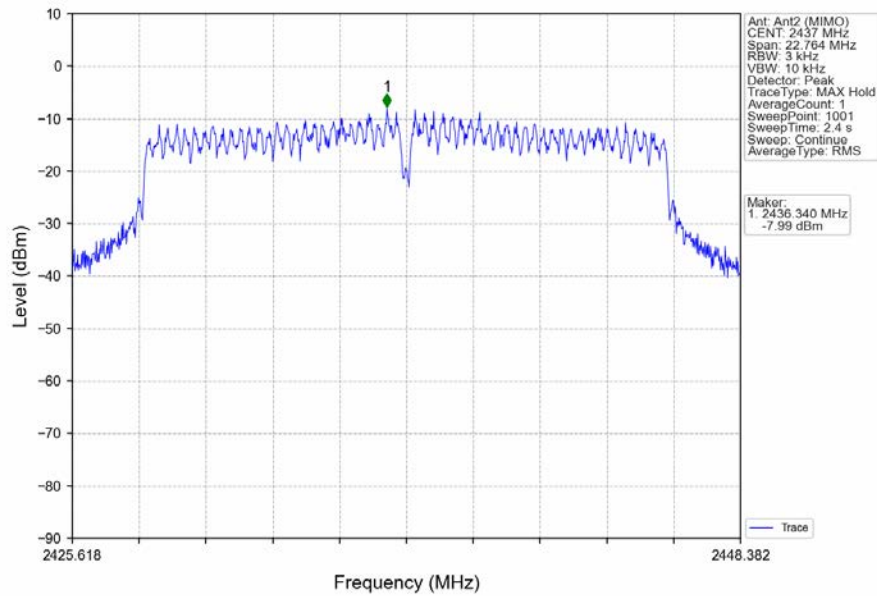
802.11n(HT20)_LCH_2412MHz_MIMO_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_MIMO_NTNV

