

RF Test Data

For

Project No.:	RF251027002-01-004
Client:	Autel Robotics Co., Ltd.
Manufacturer:	Autel Robotics Co., Ltd.
Product Description:	OmniLink
Model No.:	Nest RF-6
Test Engineer:	Jason Huang
Test Date:	2025-10-27

Test Summary

Item	Result
Duty Cycle	Pass
Bandwidth	Pass
Maximum Conducted Output Power	Pass
Maximum Power Spectral Density	Pass
Unwanted Emissions In Non-restricted Frequency Bands	Pass
Frequency Error	Pass

1. Duty Cycle

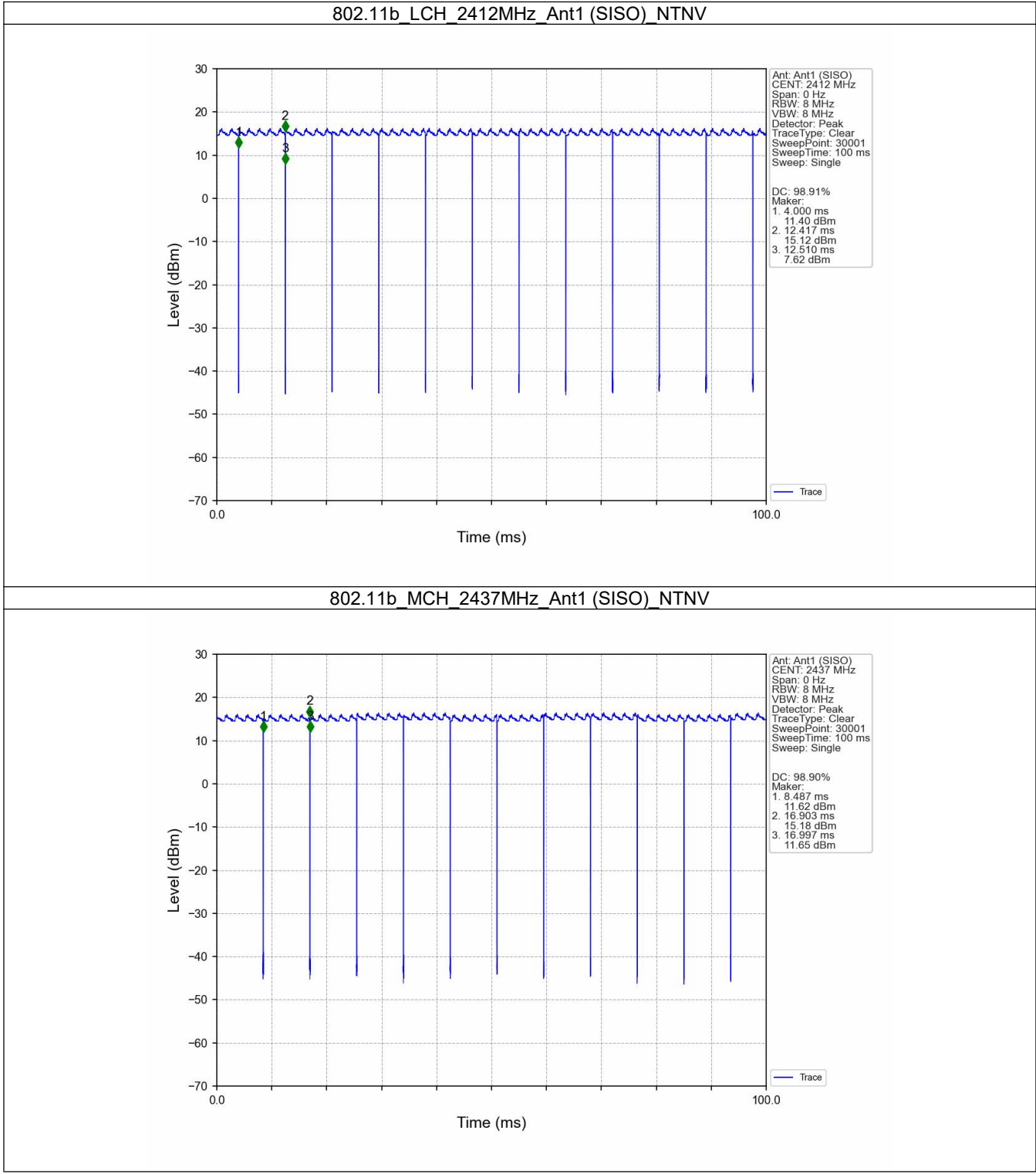
1.1 Test Result

1.1.1 Ant1

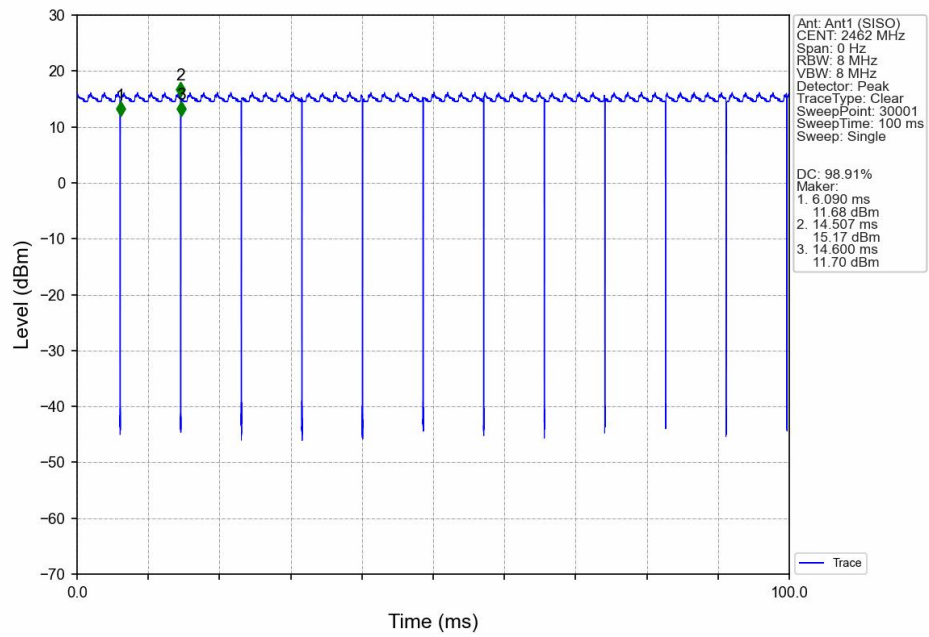
Ant1									
Mode	Tx Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	/	/	8.417	8.510	98.91	0.05	0.04
		2437	/	/	8.416	8.510	98.90	0.05	0.04
		2462	/	/	8.417	8.510	98.91	0.05	0.04
802.11g	SISO	2412	/	/	0.176	0.275	64.00	1.94	0.17
		2437	/	/	0.176	0.275	64.00	1.94	0.11
		2462	/	/	0.176	0.275	64.00	1.94	0.09
802.11n (HT20)	SISO	2412	/	/	1.308	1.407	92.96	0.32	0.07
		2437	/	/	1.309	1.408	92.97	0.32	0.03
		2462	/	/	1.308	1.408	92.90	0.32	0.07
802.11ax (HEW20)	SISO	2412	SU	/	1.308	1.408	92.90	0.32	0.03
		2437	SU	/	1.308	1.408	92.90	0.32	0.03
		2462	SU	/	1.308	1.407	92.96	0.32	0.03

1.2 Test Graph

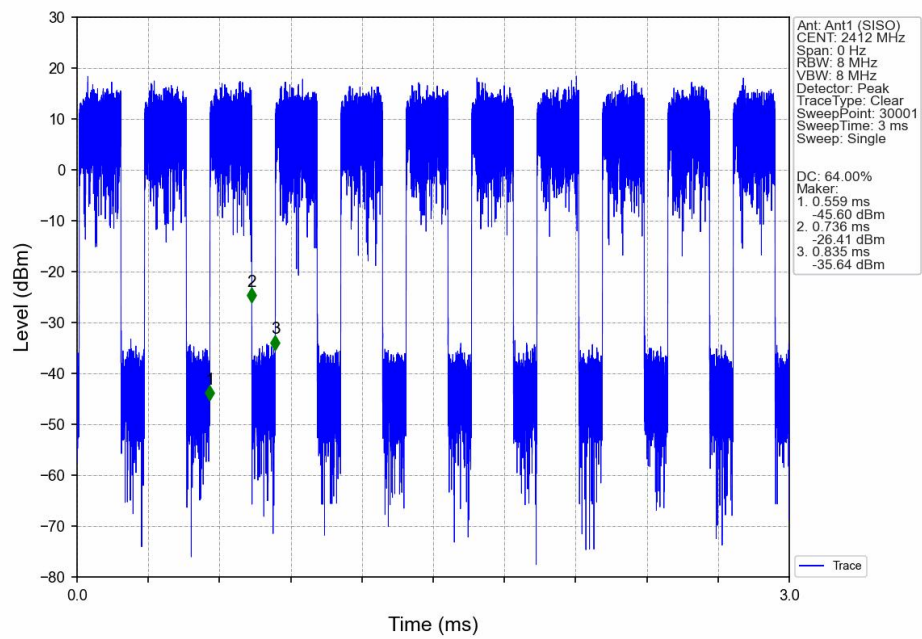
1.2.1 Ant1



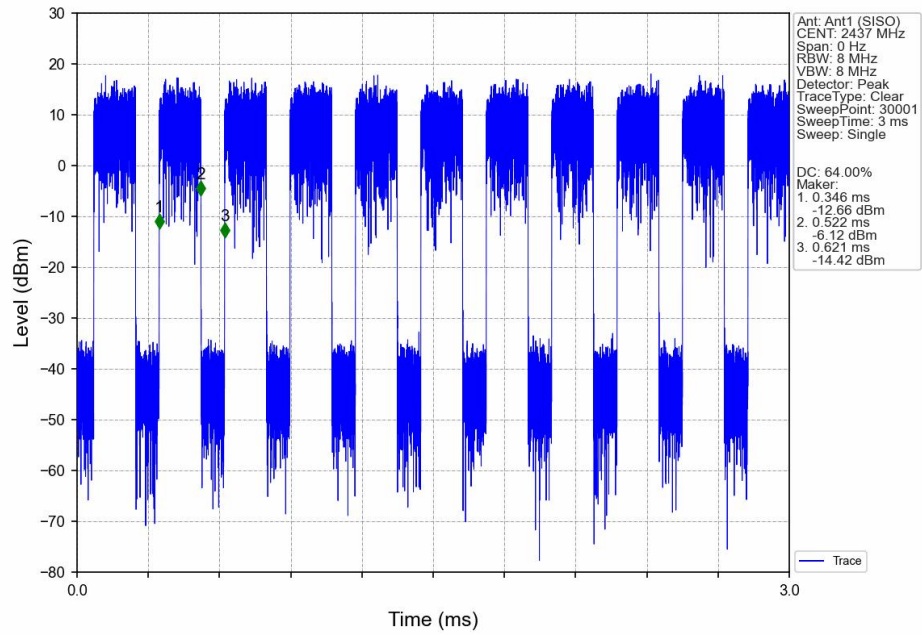
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



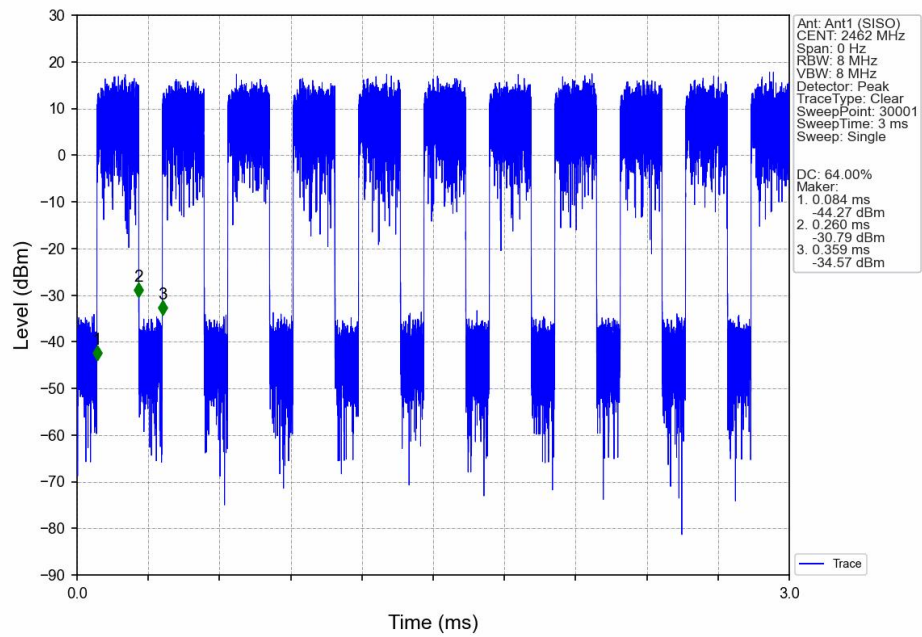
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



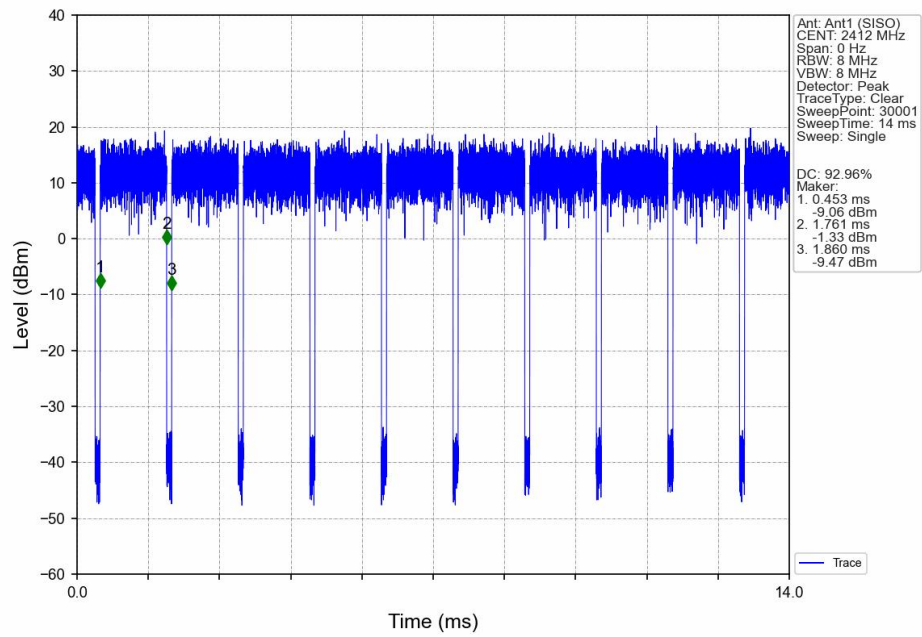
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



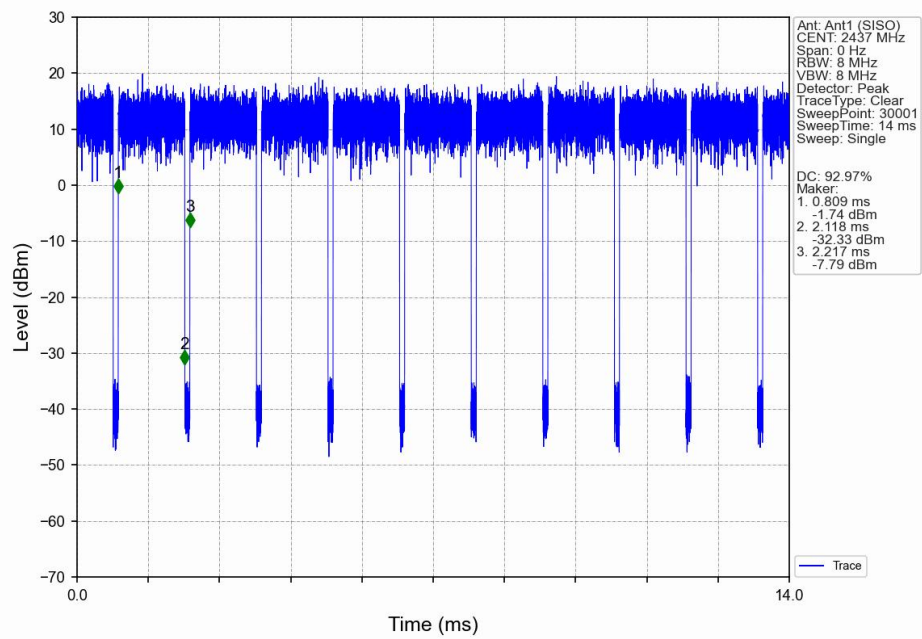
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



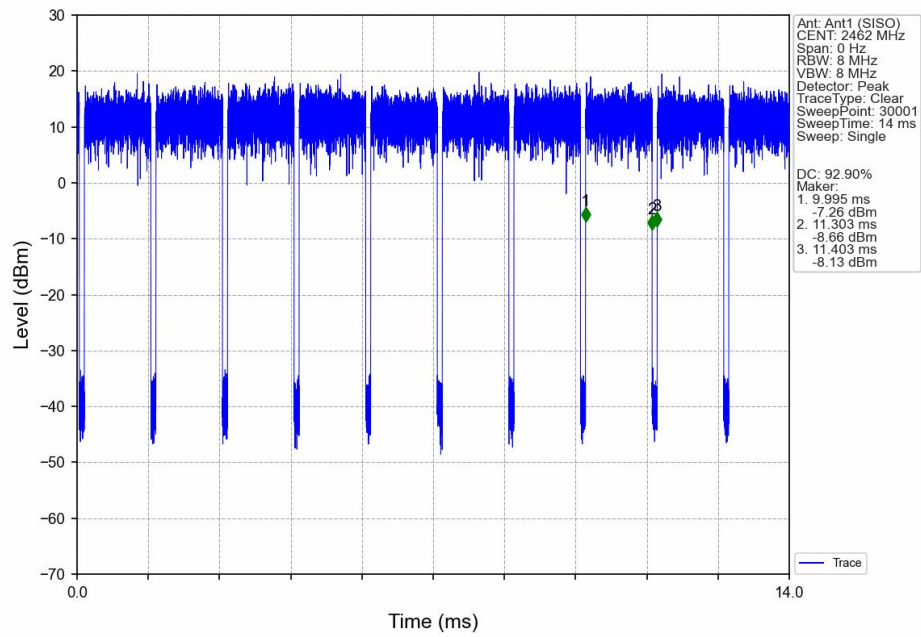
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



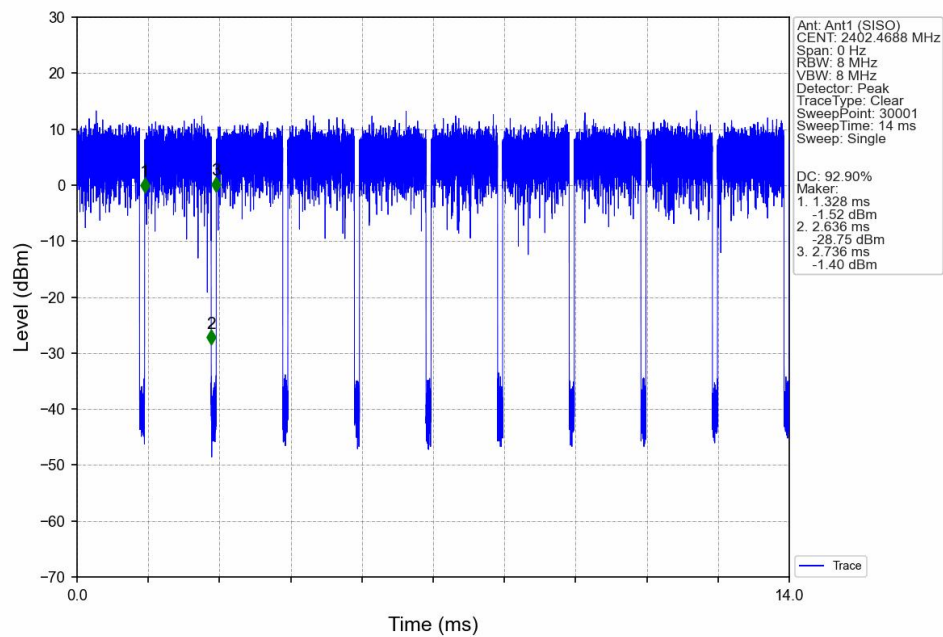
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



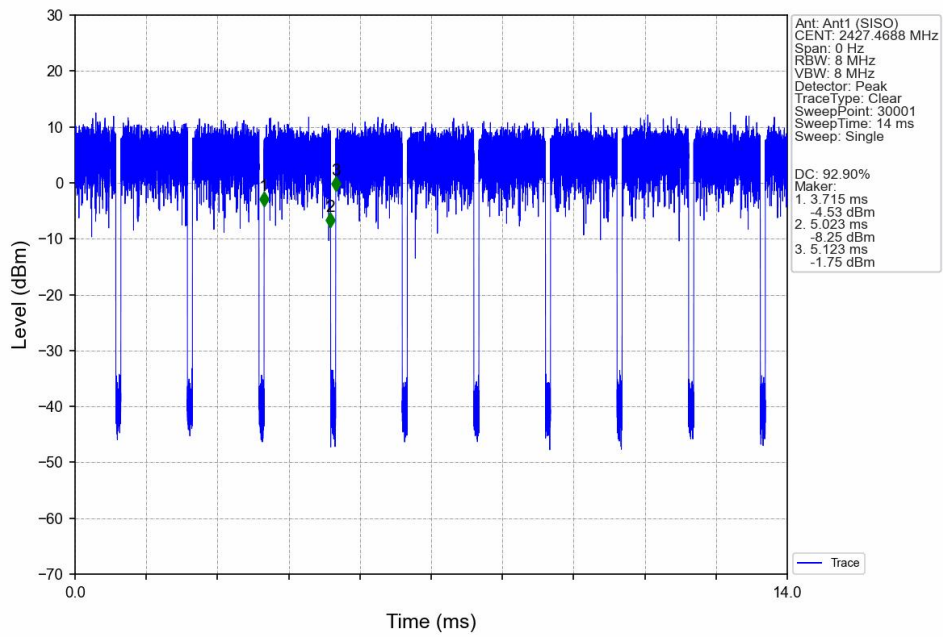
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



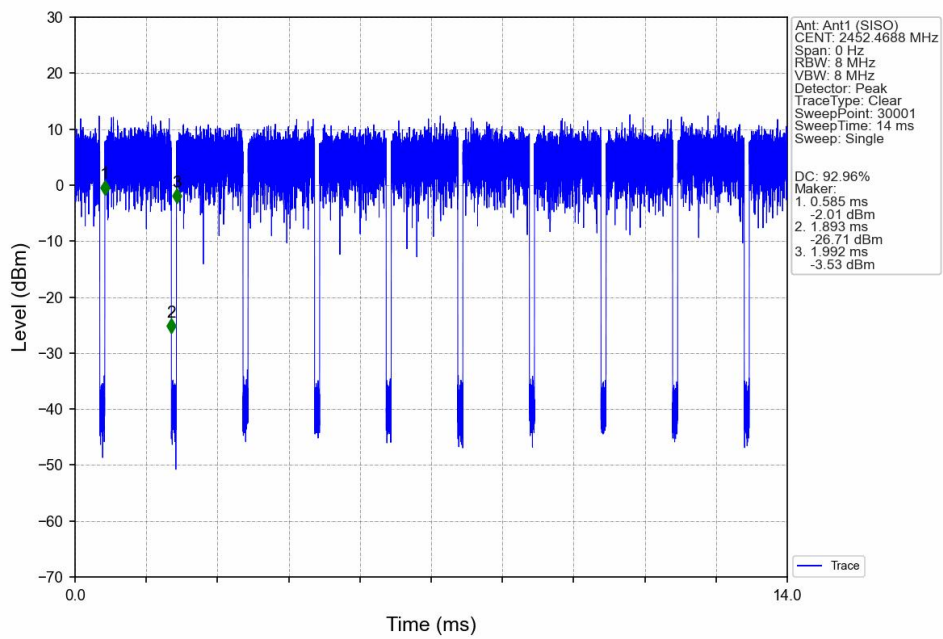
802.11ax(HEW20)_LCH_2412MHz_SU / _Ant1 (SISO)_NTNV



802.11ax(HEW20)_MCH_2437MHz_SU_/_Ant1 (SISO)_NTNV



802.11ax(HEW20)_HCH_2462MHz_SU_/_Ant1 (SISO)_NTNV



2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	SISO	2412	/	/	1	11.924	/	Pass
					2	12.030	/	Pass
		2437	/	/	1	11.898	/	Pass
					2	12.001	/	Pass
		2462	/	/	1	11.905	/	Pass
					2	12.005	/	Pass
802.11g	SISO	2412	/	/	1	17.890	/	Pass
					2	17.903	/	Pass
		2437	/	/	1	17.835	/	Pass
					2	17.937	/	Pass
		2462	/	/	1	17.876	/	Pass
					2	17.950	/	Pass
802.11n (HT20)	SISO	2412	/	/	1	18.912	/	Pass
					2	18.933	/	Pass
		2437	/	/	1	18.855	/	Pass
					2	18.886	/	Pass
		2462	/	/	1	18.864	/	Pass
					2	18.816	/	Pass
802.11ax (HEW20)	SISO	2412	SU	/	1	18.923	/	Pass
					2	18.964	/	Pass
		2437	SU	/	1	18.884	/	Pass
					2	18.868	/	Pass
		2462	SU	/	1	18.867	/	Pass
					2	18.907	/	Pass

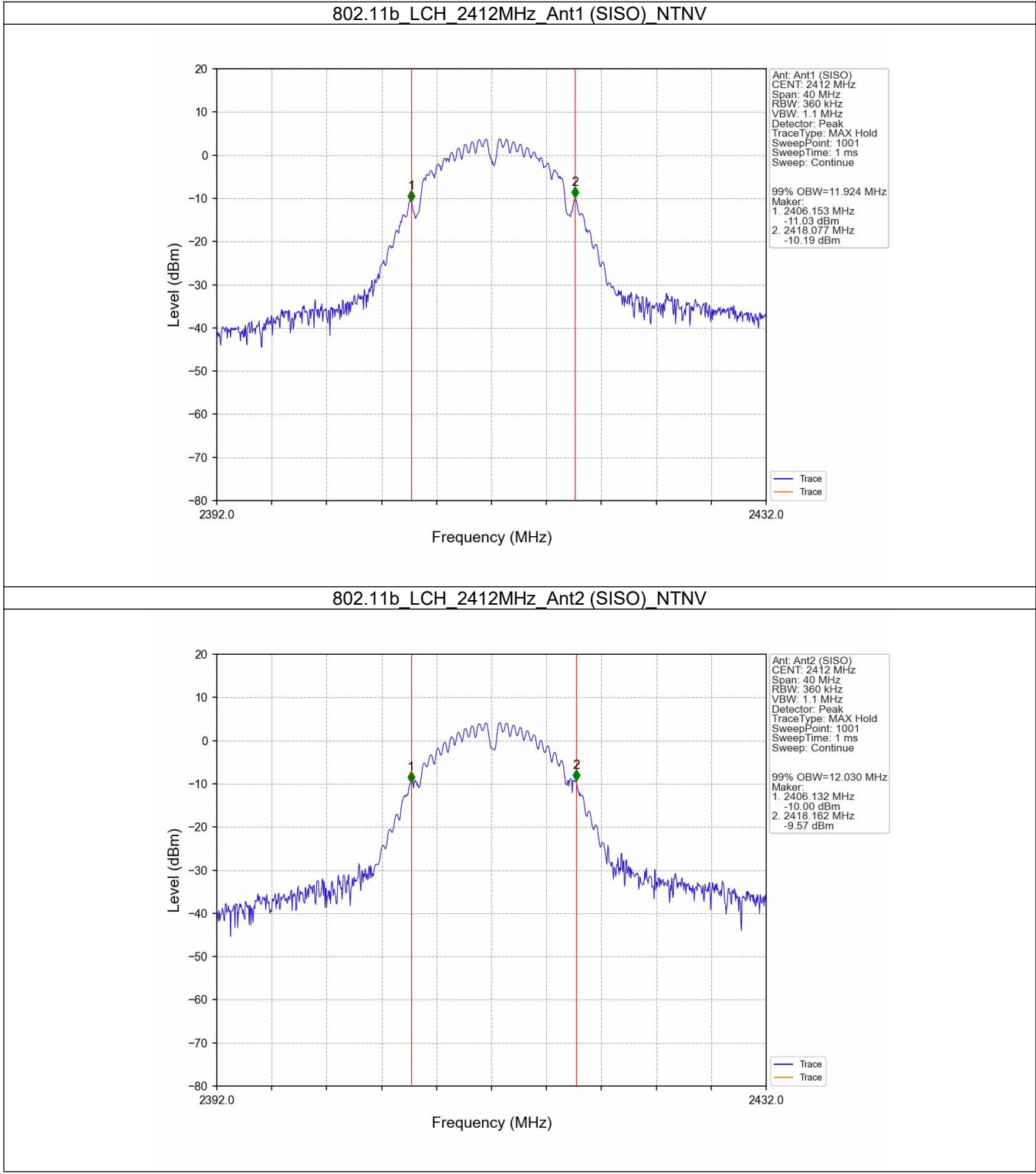
2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	SISO	2412	/	/	1	8.114	>=0.5	Pass
					2	8.143	>=0.5	Pass
		2437	/	/	1	7.724	>=0.5	Pass
					2	8.153	>=0.5	Pass
		2462	/	/	1	8.124	>=0.5	Pass
					2	8.154	>=0.5	Pass
802.11g	SISO	2412	/	/	1	16.790	>=0.5	Pass
					2	16.687	>=0.5	Pass
		2437	/	/	1	16.699	>=0.5	Pass
					2	16.796	>=0.5	Pass
		2462	/	/	1	16.784	>=0.5	Pass
					2	16.765	>=0.5	Pass
802.11n (HT20)	SISO	2412	/	/	1	17.302	>=0.5	Pass
					2	17.443	>=0.5	Pass
		2437	/	/	1	17.229	>=0.5	Pass
					2	17.460	>=0.5	Pass
		2462	/	/	1	17.695	>=0.5	Pass
					1	17.695	>=0.5	Pass

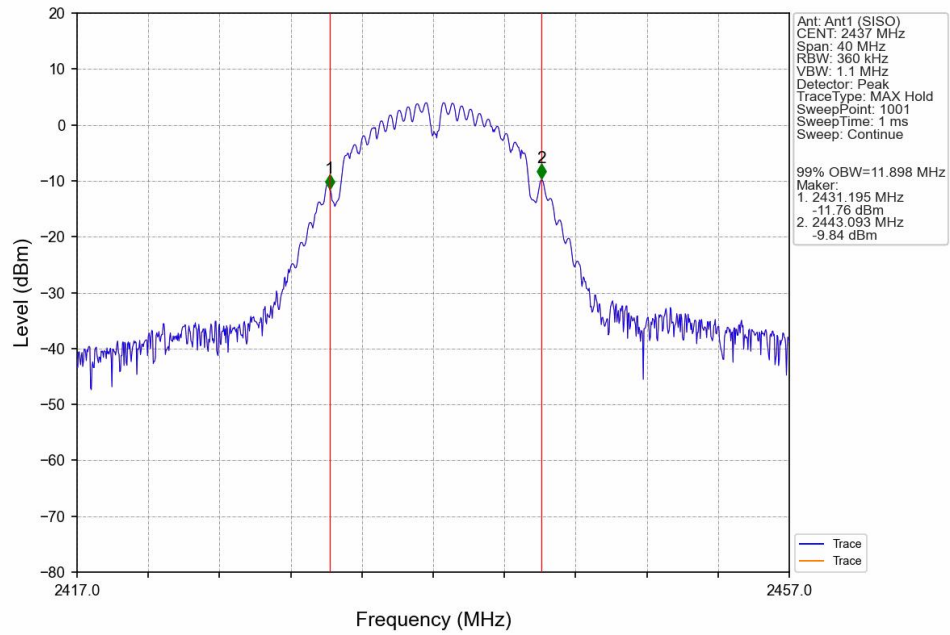
					2	17.398	≥ 0.5	Pass
802.11ax (HEW20)	SISO	2412	SU	/	1	17.470	≥ 0.5	Pass
					2	17.722	≥ 0.5	Pass
		2437	SU	/	1	17.417	≥ 0.5	Pass
					2	17.303	≥ 0.5	Pass
		2462	SU	/	1	17.396	≥ 0.5	Pass
					2	17.660	≥ 0.5	Pass

2.2 Test Graph

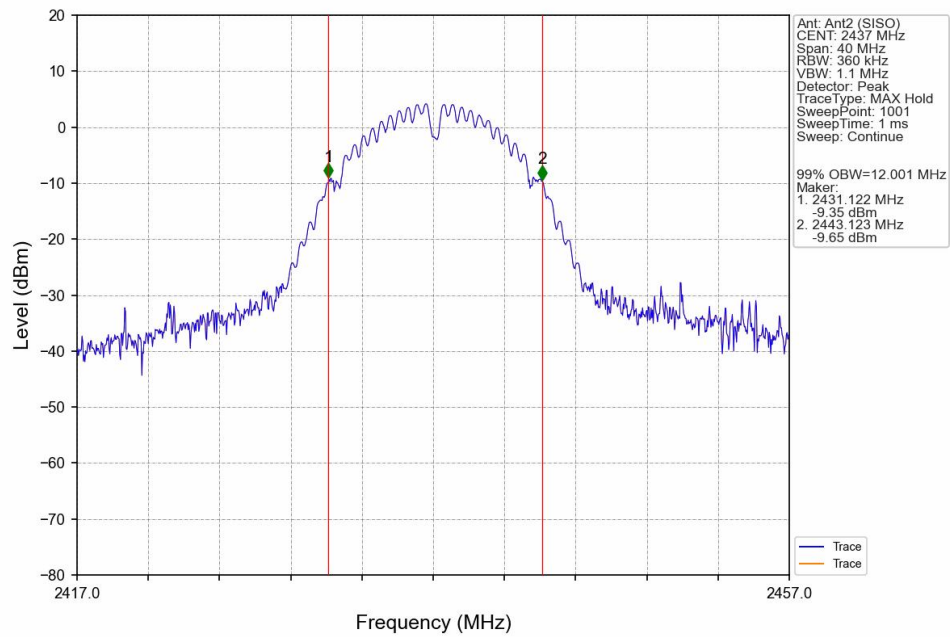
2.2.1 OBW



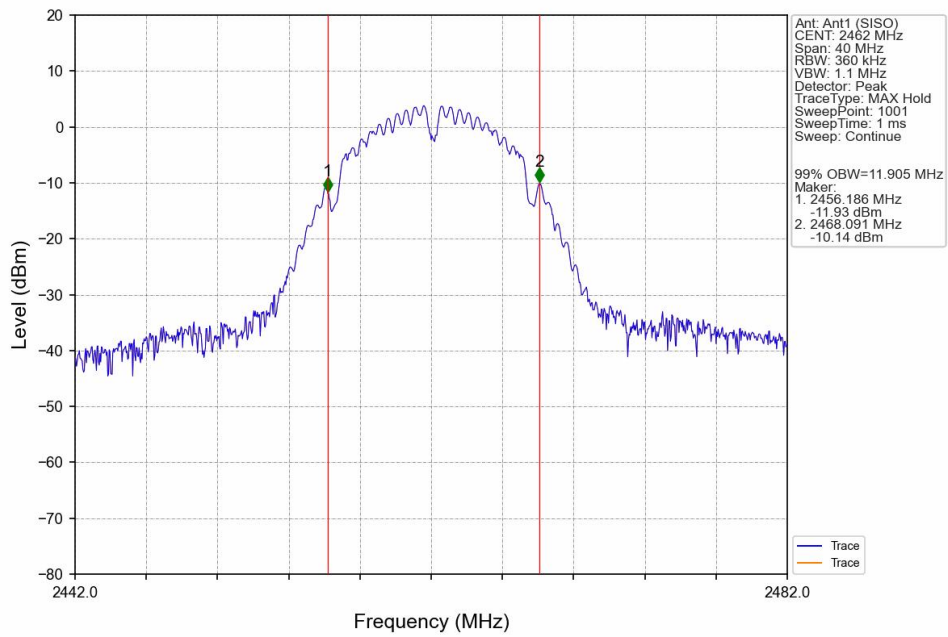
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



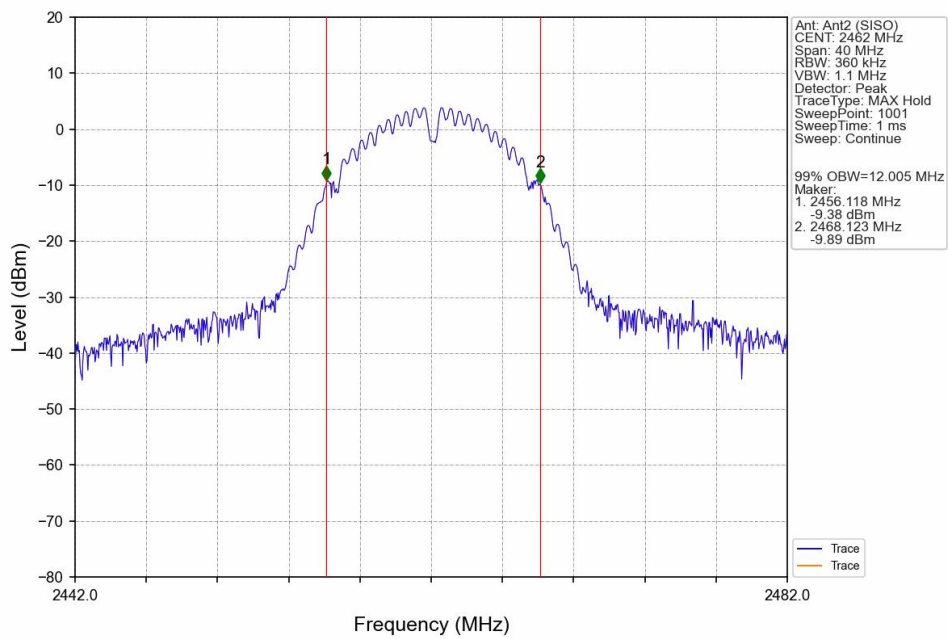
802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



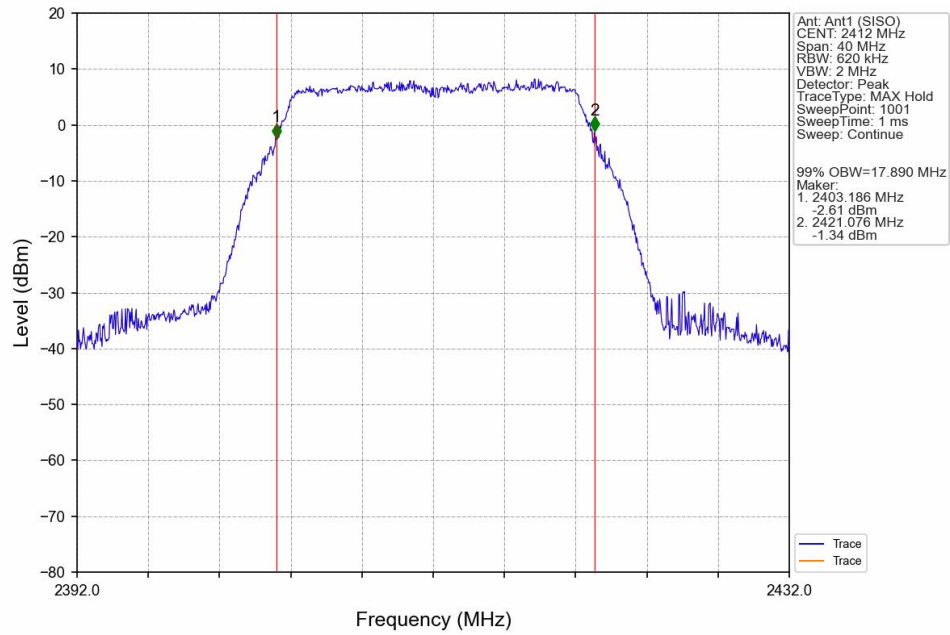
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



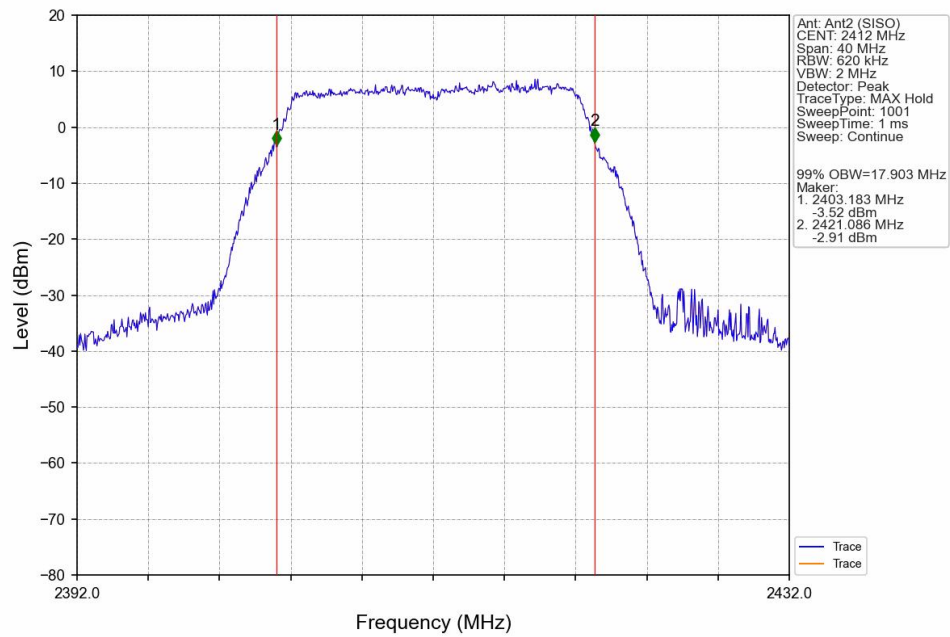
802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



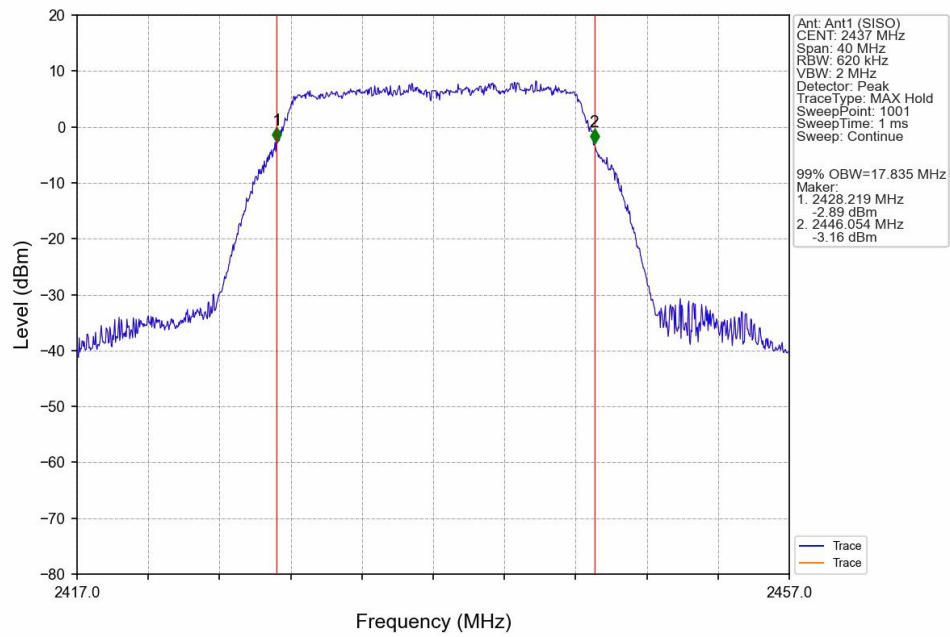
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



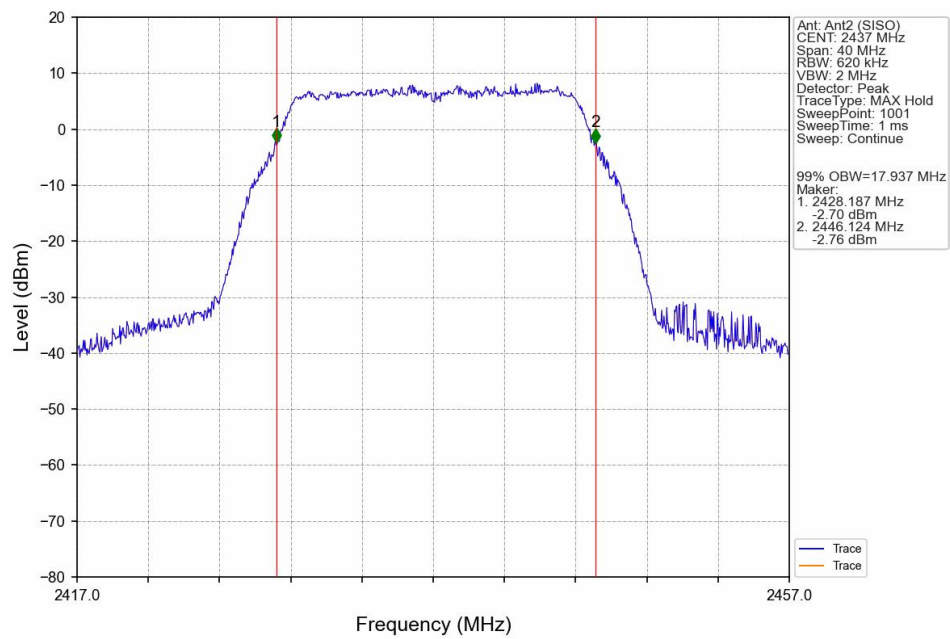
802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



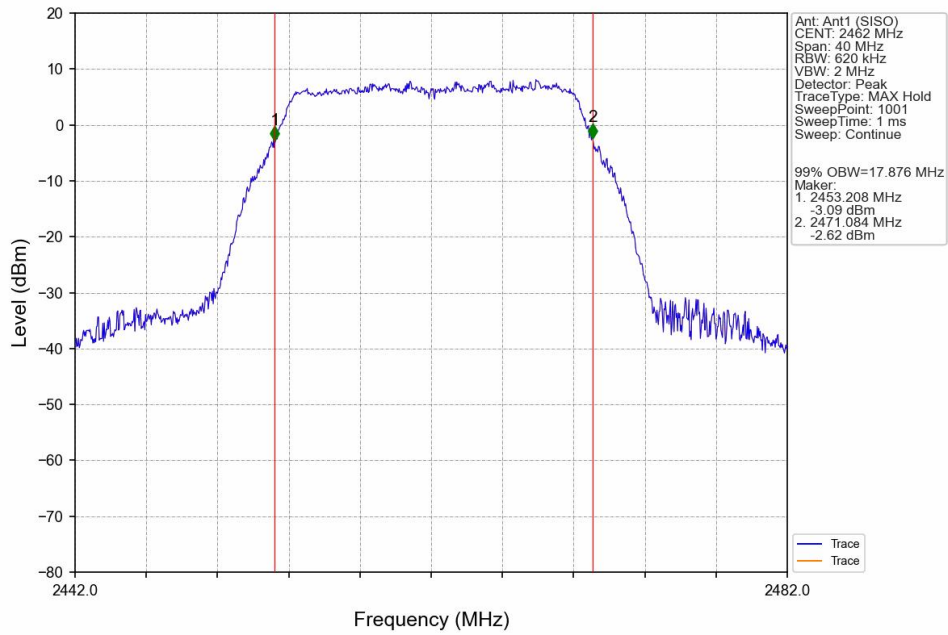
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



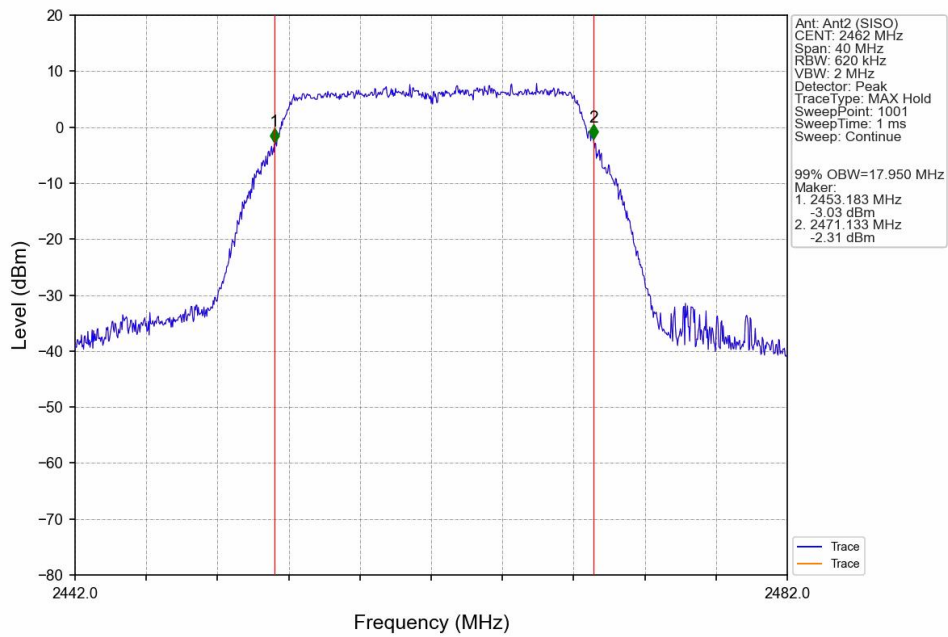
802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



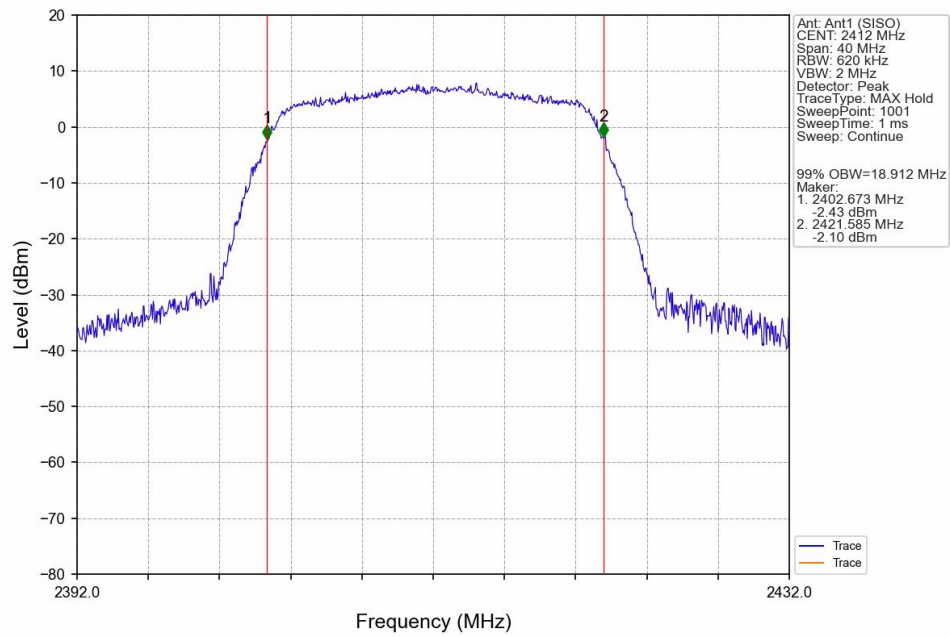
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



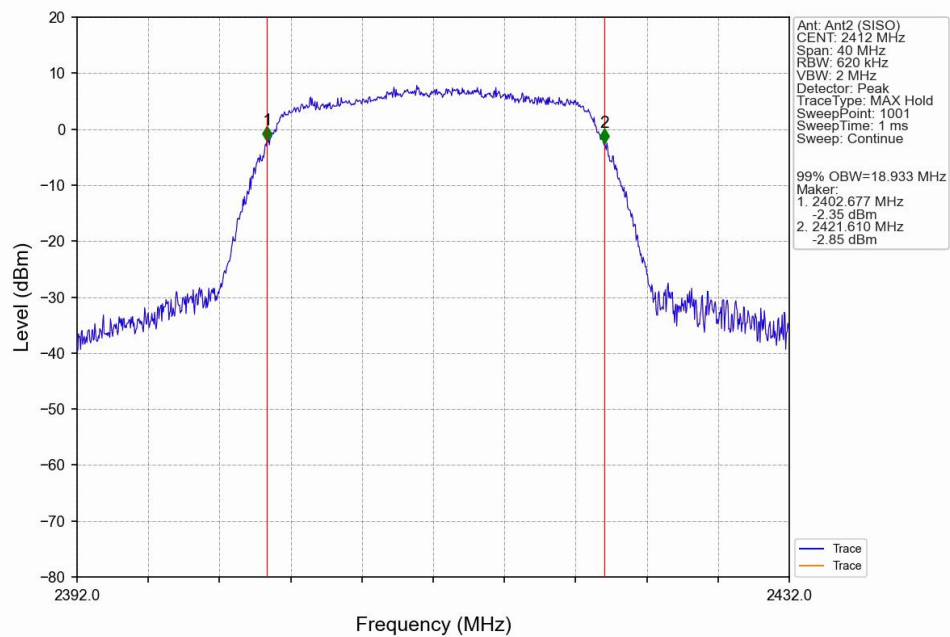
802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



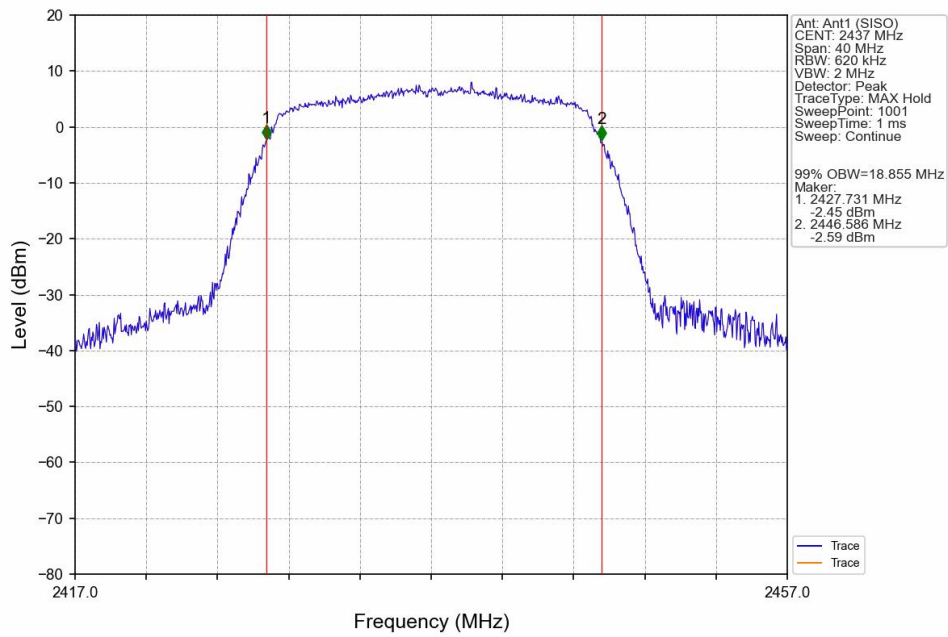
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



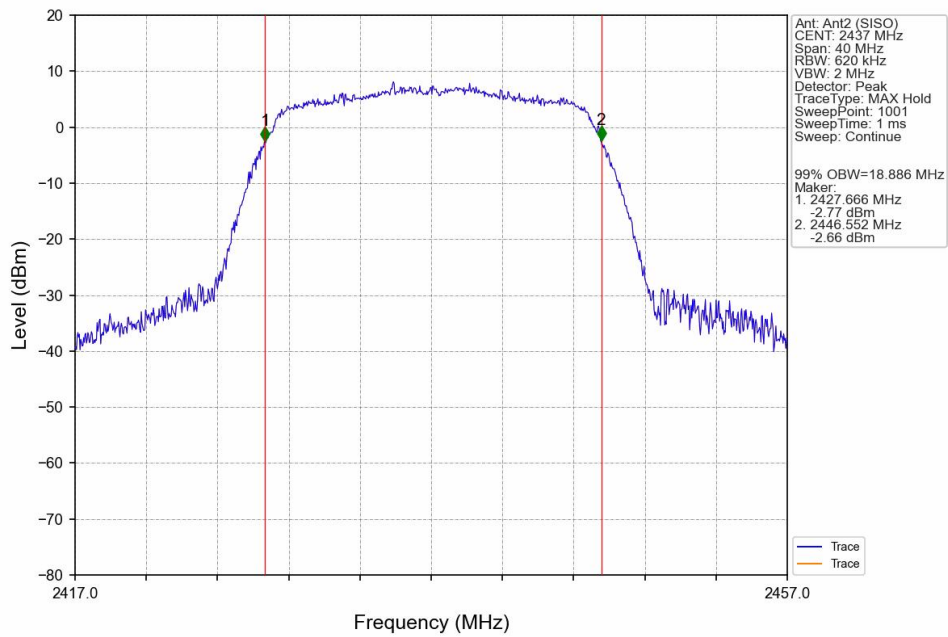
802.11n(HT20)_LCH_2412MHz_Ant2 (SISO)_NTNV



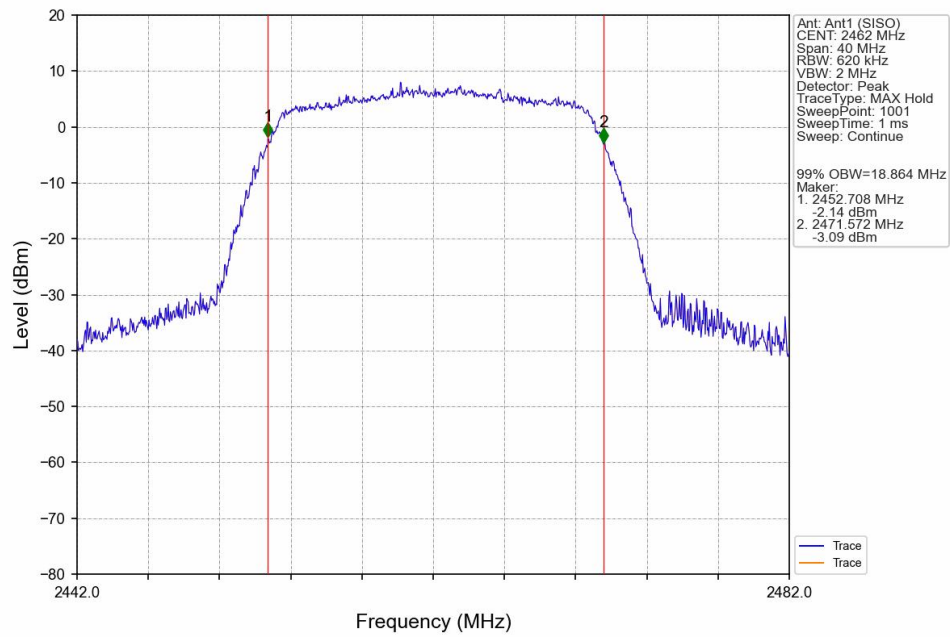
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



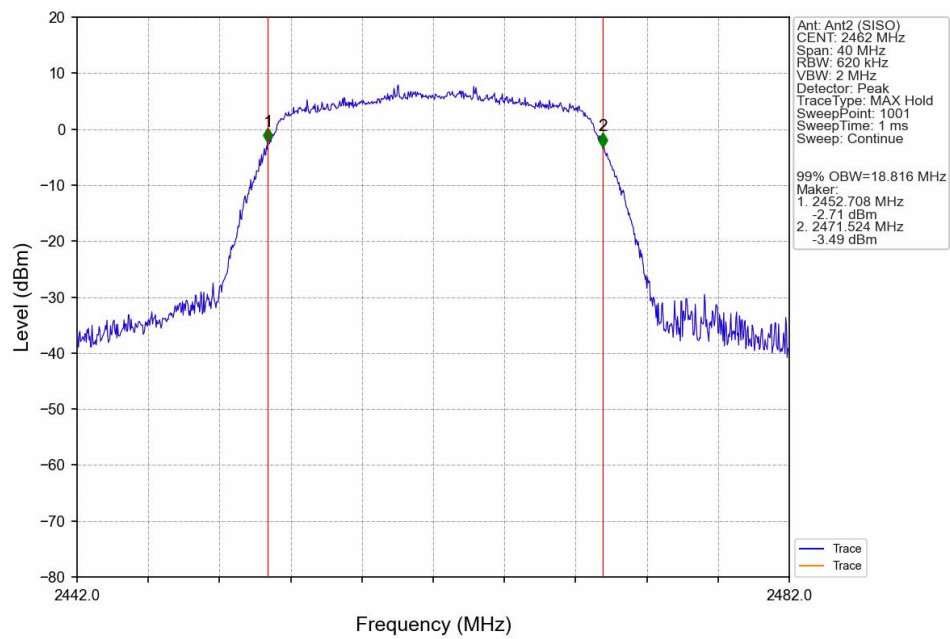
802.11n(HT20)_MCH_2437MHz_Ant2 (SISO)_NTNV



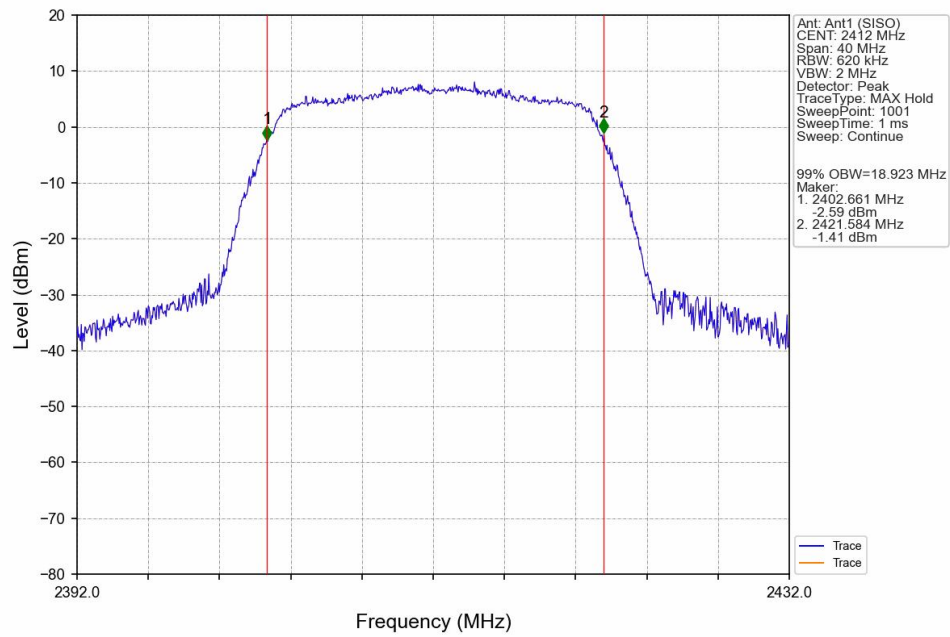
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



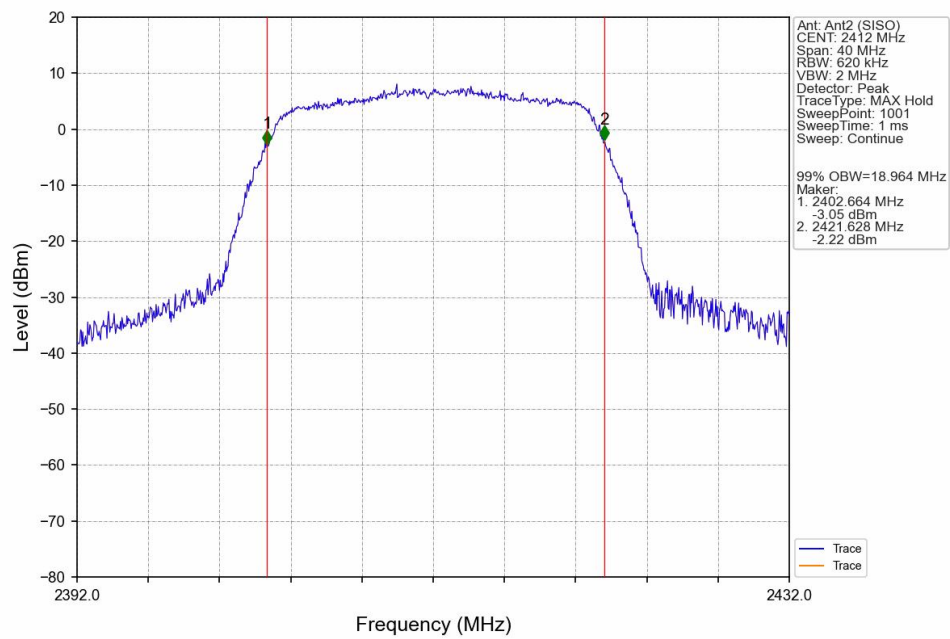
802.11n(HT20)_HCH_2462MHz_Ant2 (SISO)_NTNV



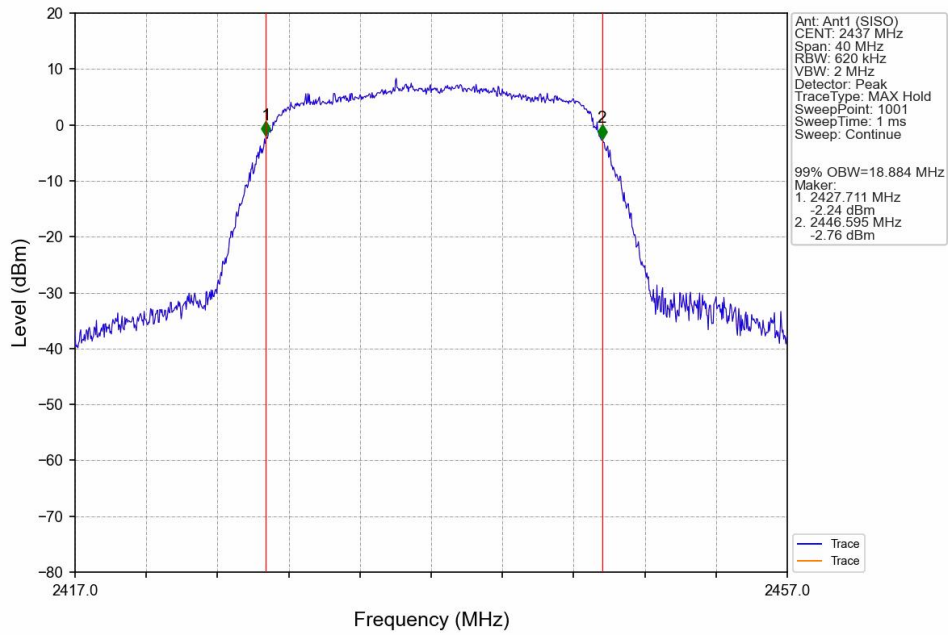
802.11ax(HEW20) LCH_2412MHz_SU / _Ant1 (SISO) NTN



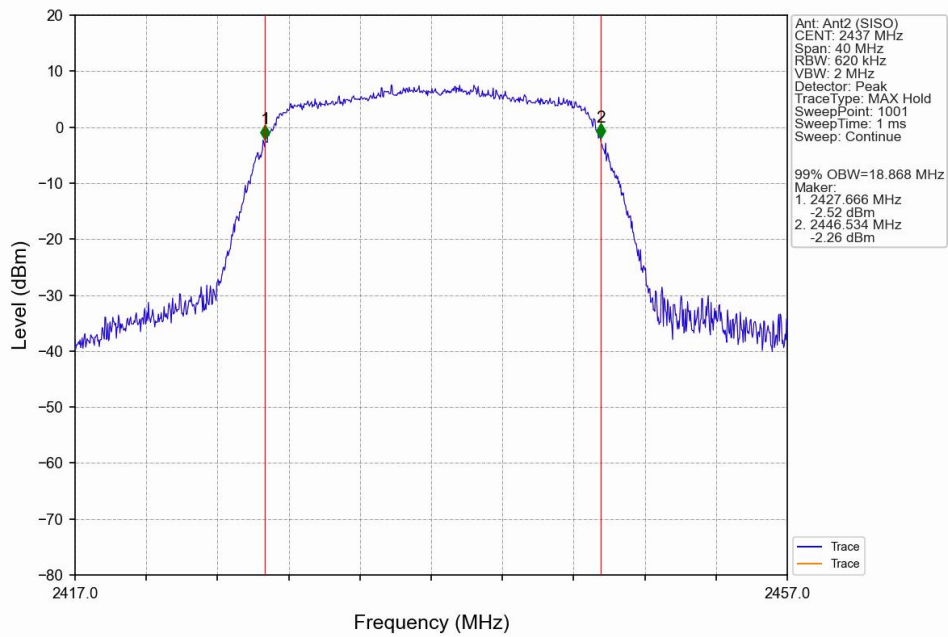
802.11ax(HEW20) LCH_2412MHz_SU / _Ant2 (SISO) NTN



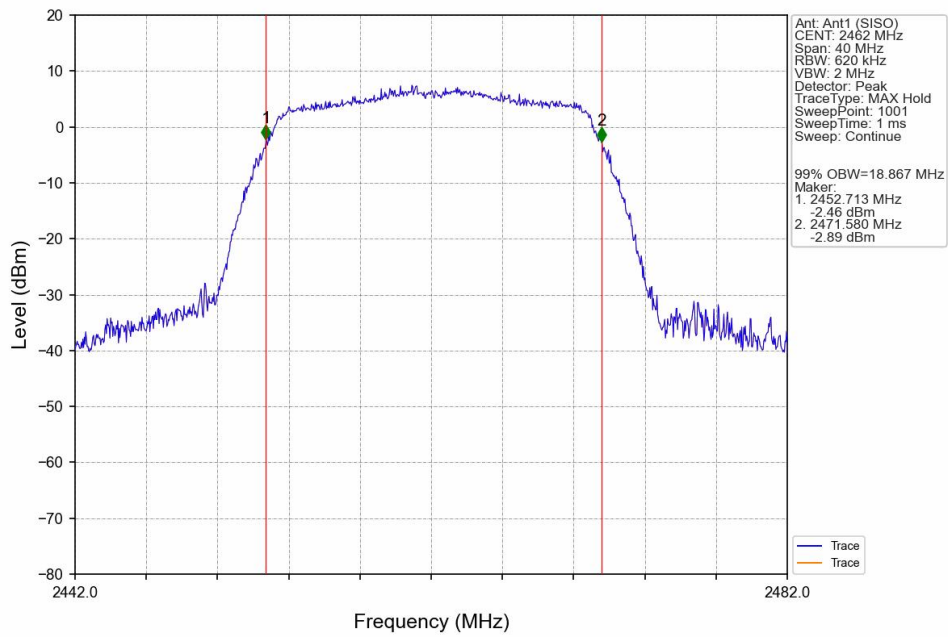
802.11ax(HEW20)_MCH_2437MHz_SU_/_Ant1 (SISO)_NTNV



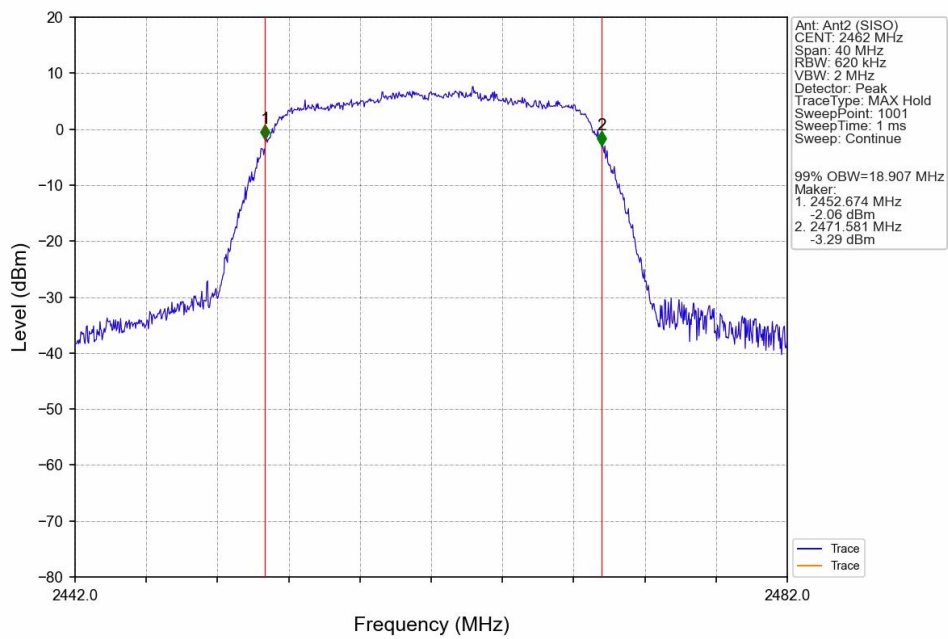
802.11ax(HEW20)_MCH_2437MHz_SU_/_Ant2 (SISO)_NTNV



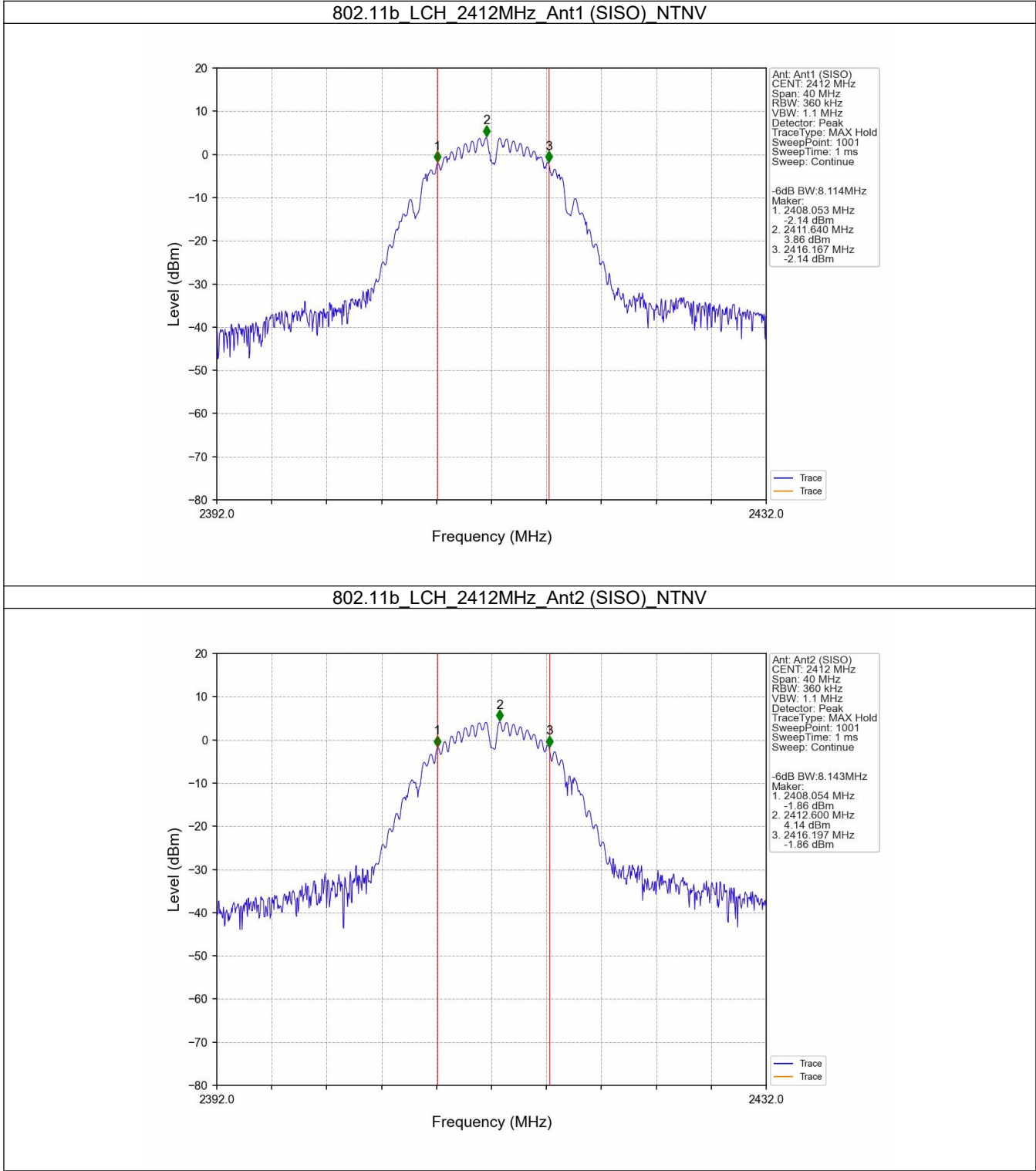
802.11ax(HEW20)_HCH_2462MHz_SU_/_Ant1 (SISO)_NTNV



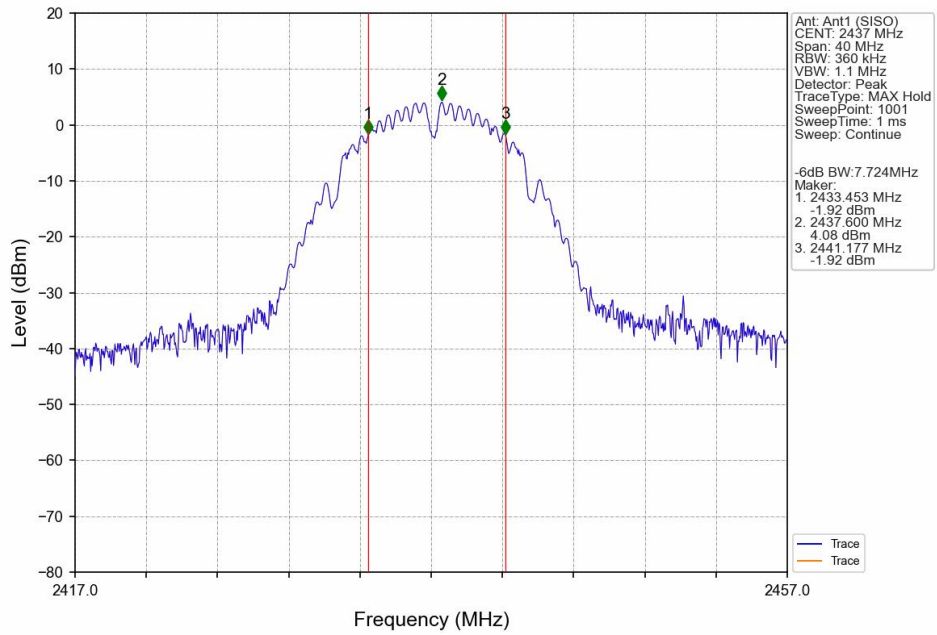
802.11ax(HEW20)_HCH_2462MHz_SU_/_Ant2 (SISO)_NTNV



2.2.2 6dB BW



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV

