Appendix A

Product:	DG-L35T
Model	L35T

1. Duty Cycle

1.1 Ant1

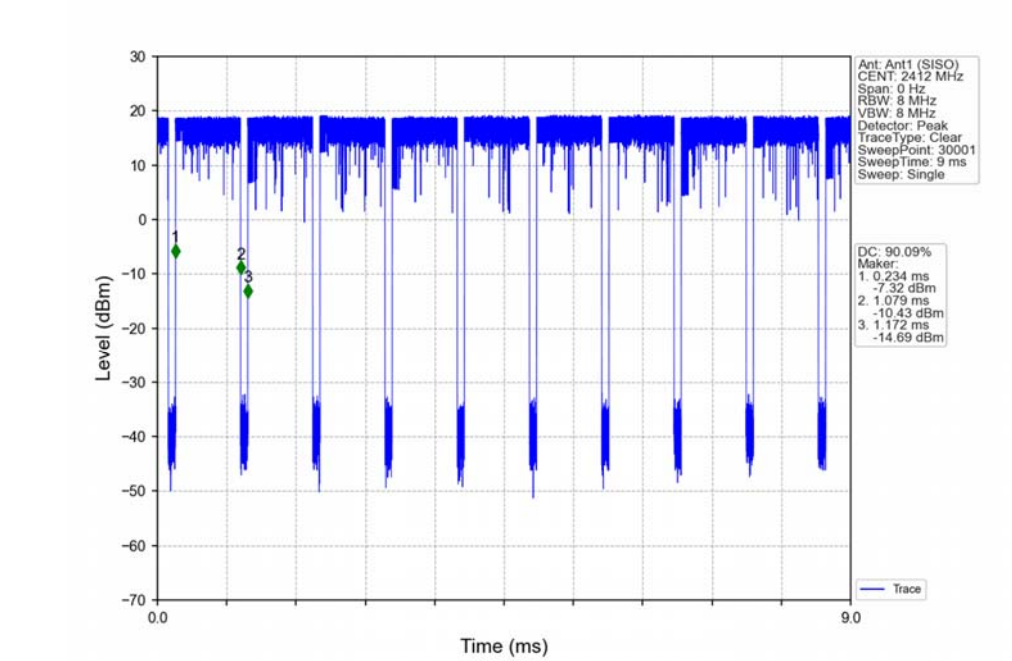
1.1.1 Test Result

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	/	/	0.845	0.938	90.09	0.45	0.03
		2437	/	/	0.844	0.937	90.07	0.45	0.03
		2462	/	/	0.845	0.938	90.09	0.45	0.03
802.11g	MIMO	2412	/	/	2.065	2.093	98.66	0.06	0.04
		2437	/	/	87.770	88.107	99.62	0.02	0.00
		2462	/	/	2.065	2.094	98.62	0.06	0.04
802.11n (HT20)	MIMO	2412	/	/	1.309	1.407	93.03	0.31	0.00
		2437	/	/	1.308	1.408	92.90	0.32	0.03
		2462	/	/	1.308	1.407	92.96	0.32	0.00
802.11ax (HEW20)	MIMO	2412	RU242	Left	3.952	4.951	79.82	0.98	0.04
		2437	RU242	Left	3.952	4.952	79.81	0.98	0.03
		2462	RU242	Left	3.953	4.952	79.83	0.98	0.00

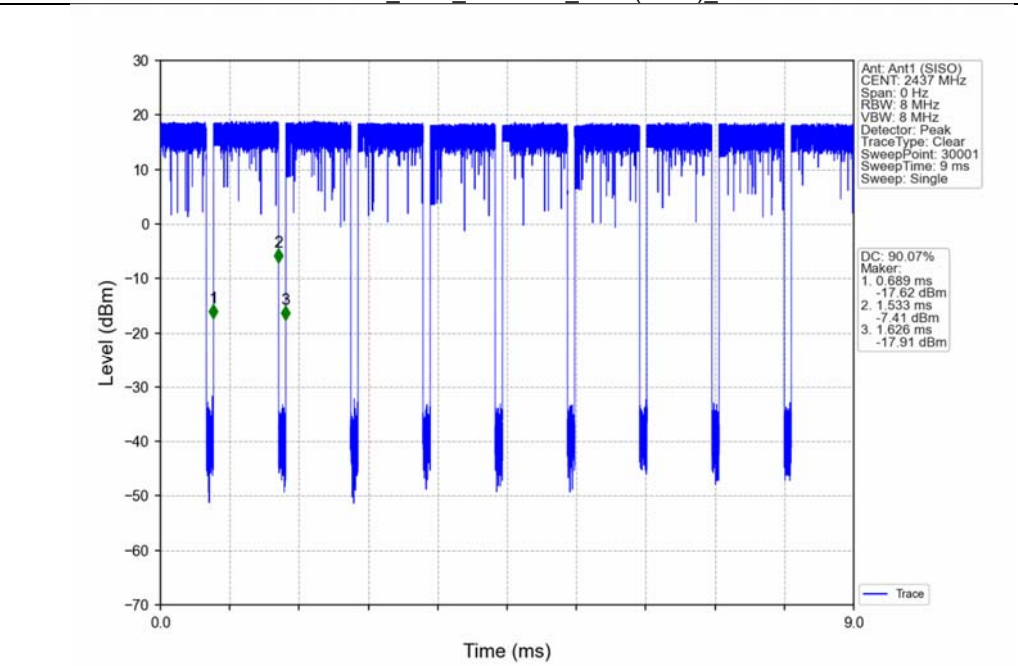
Note: ANT 1(2) Represent the value of antenna 1 and 2, The worst data is Antenna 1, only shown Antenna 1 Plot.

1.1.2 Test Graph

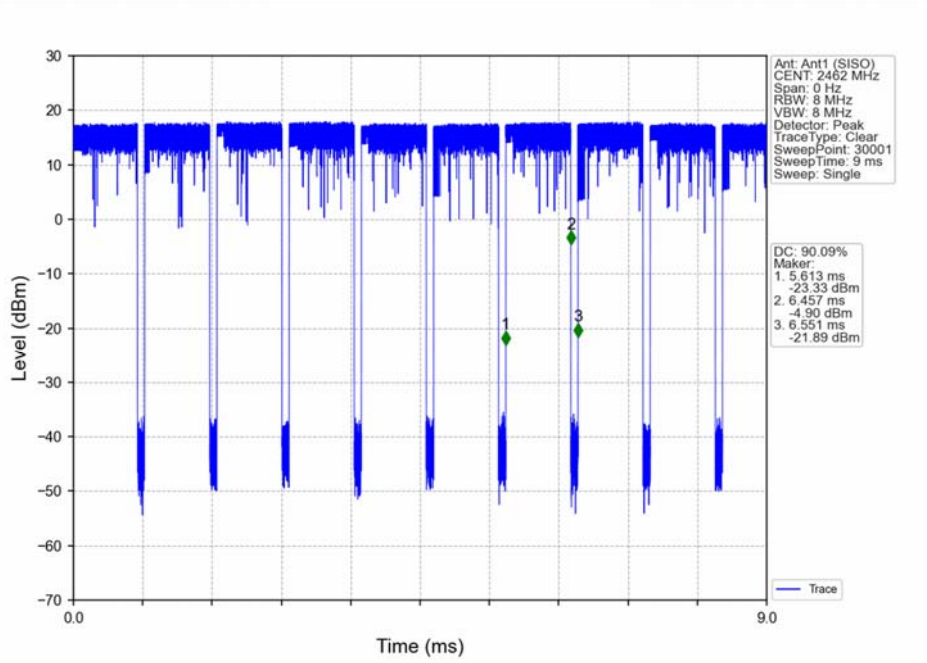
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



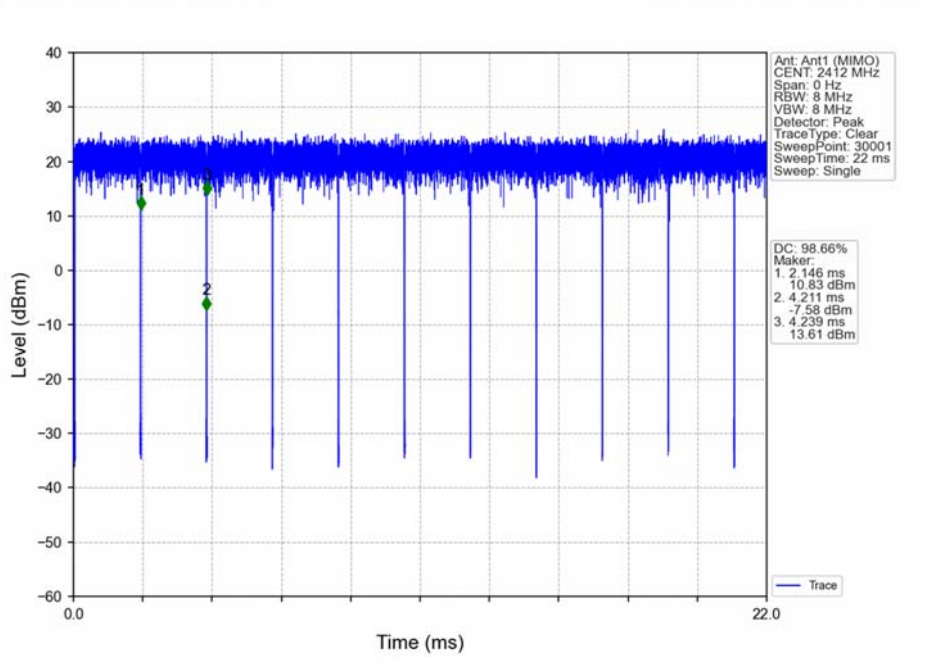
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



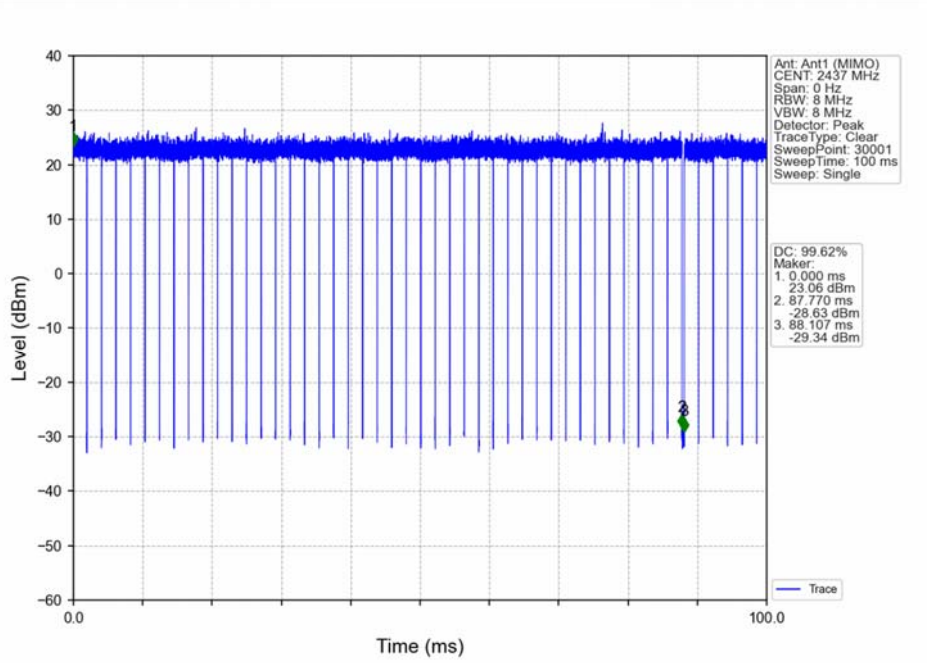
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



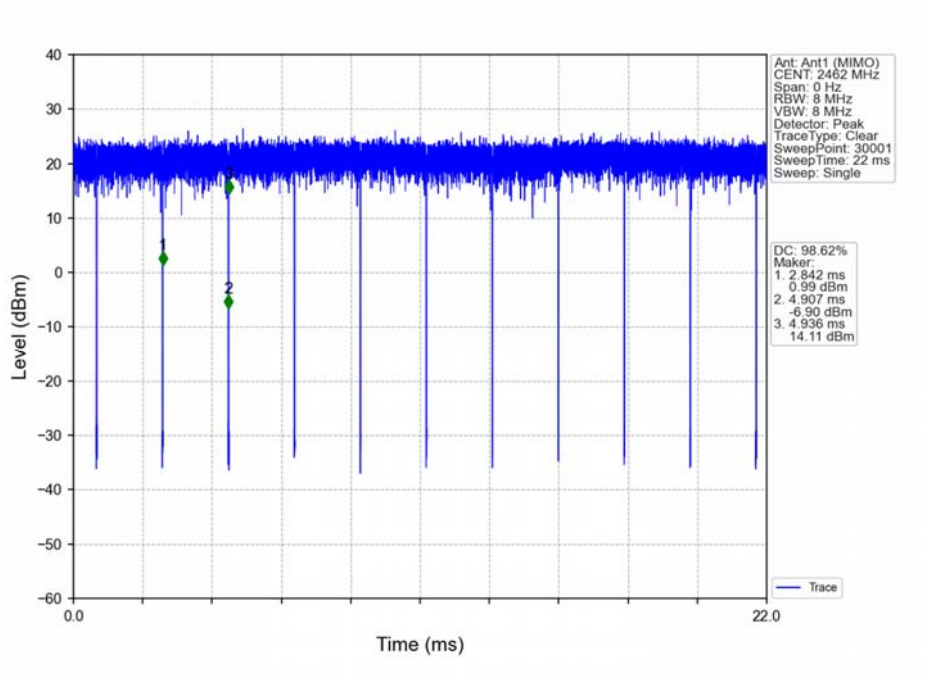
802.11g_LCH_2412MHz_Ant1 (MIMO)_NTNV



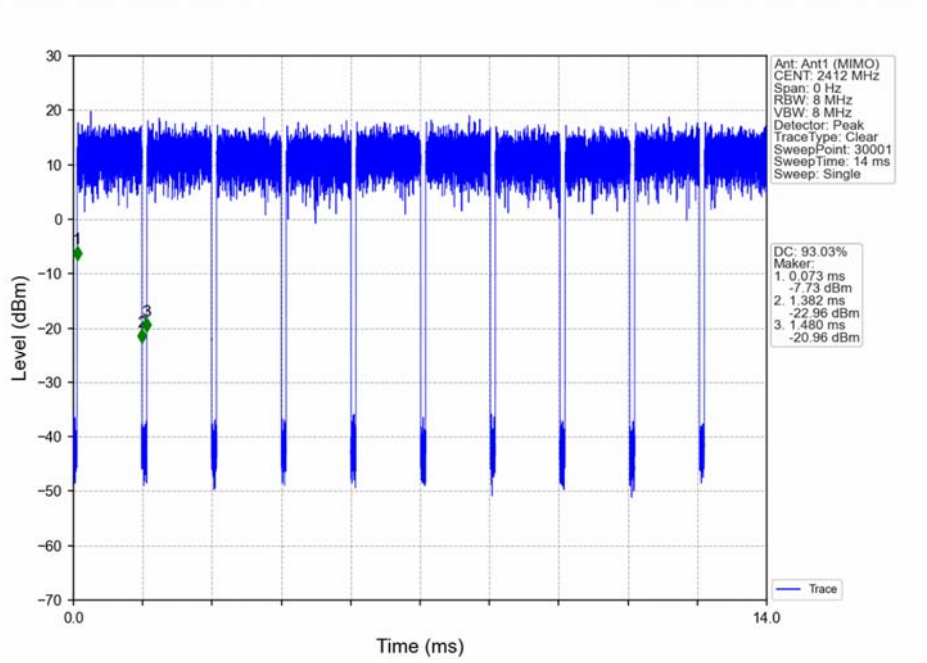
802.11g_MCH_2437MHz_Ant1 (MIMO)_NTNV



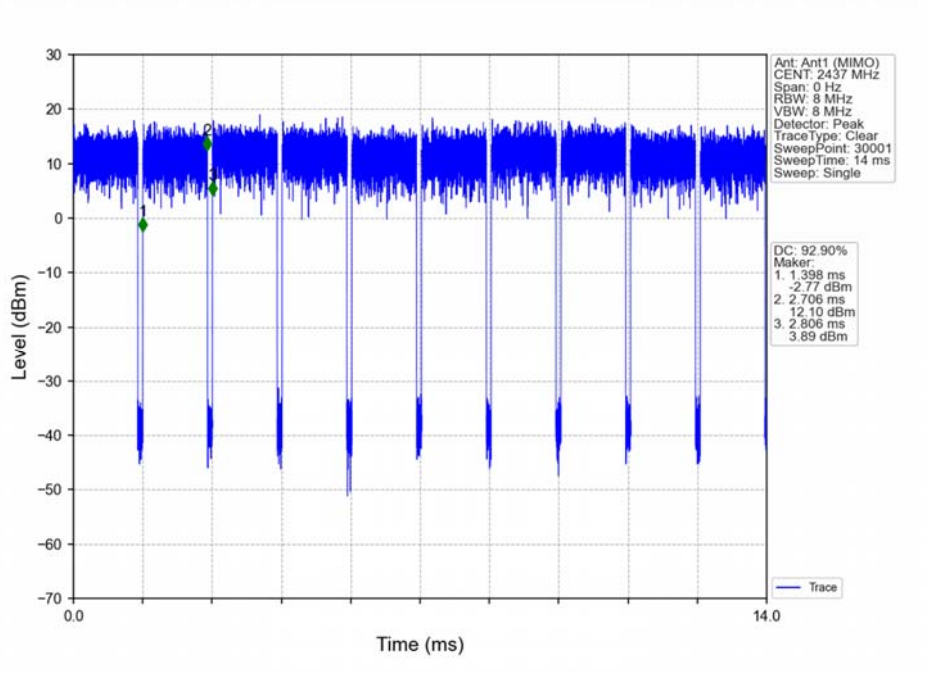
802.11g_HCH_2462MHz_Ant1 (MIMO)_NTNV



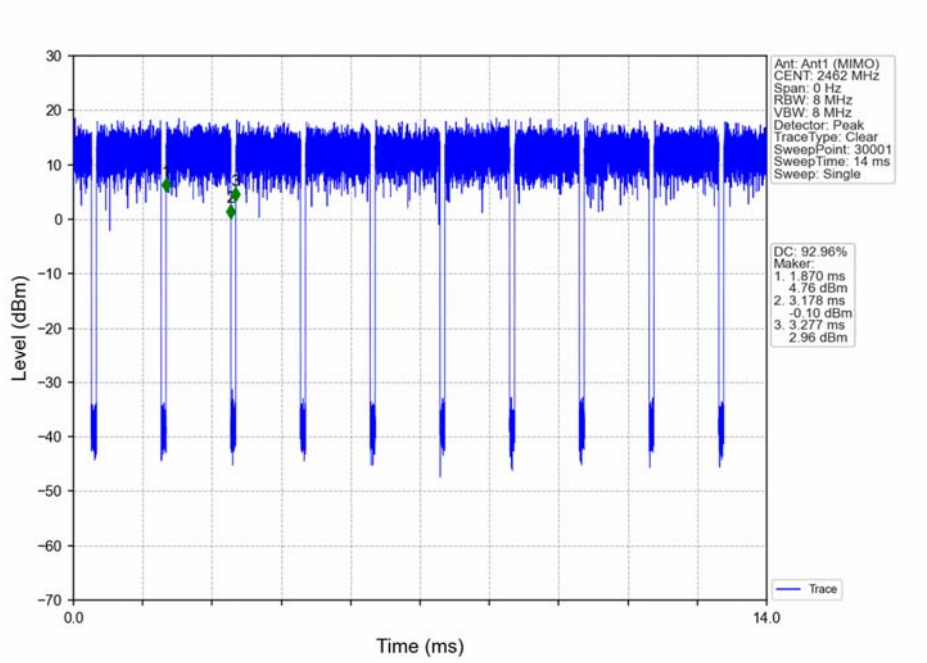
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



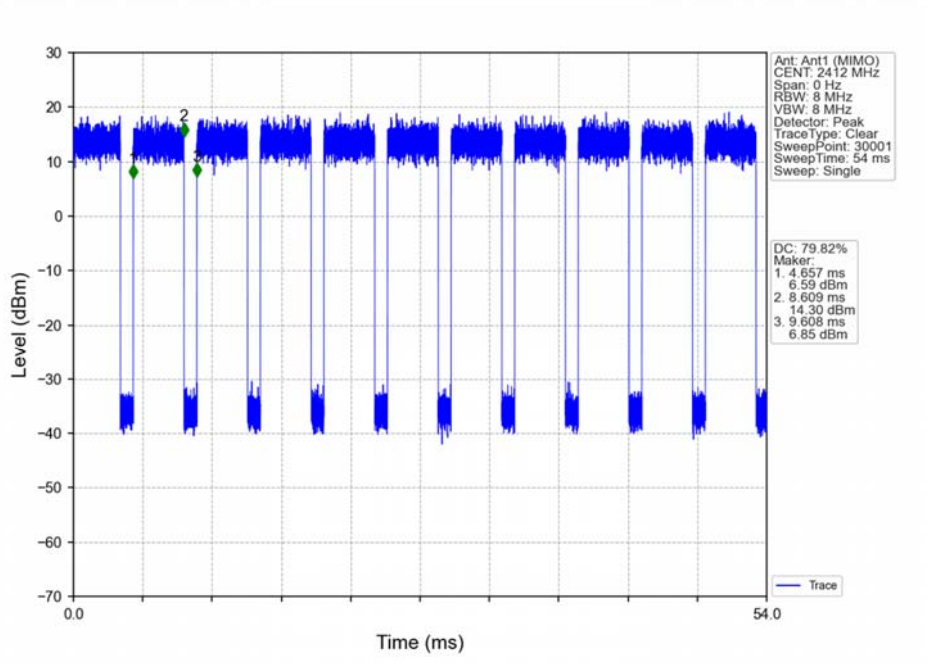
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



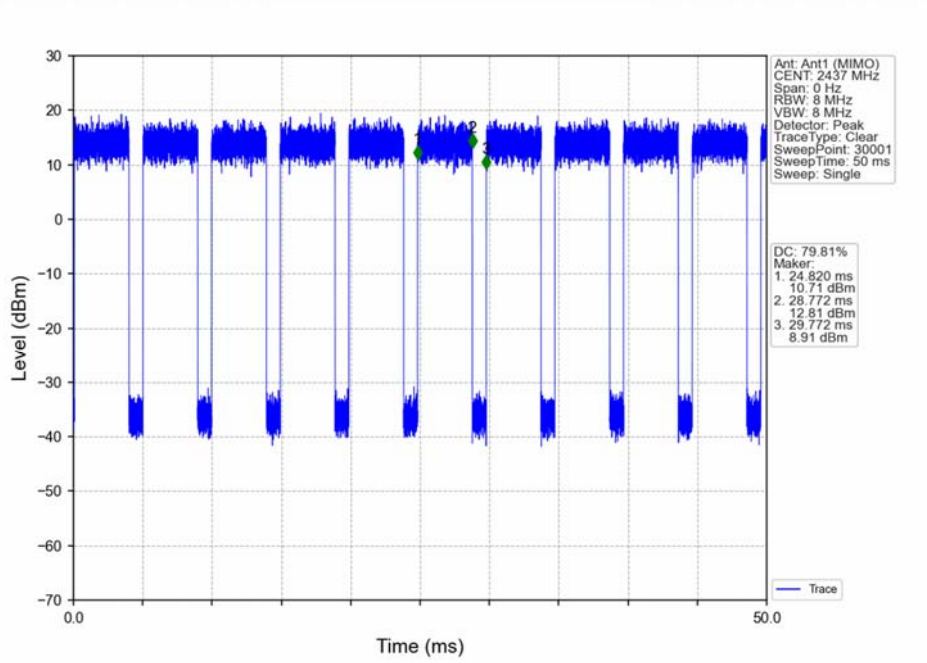
802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



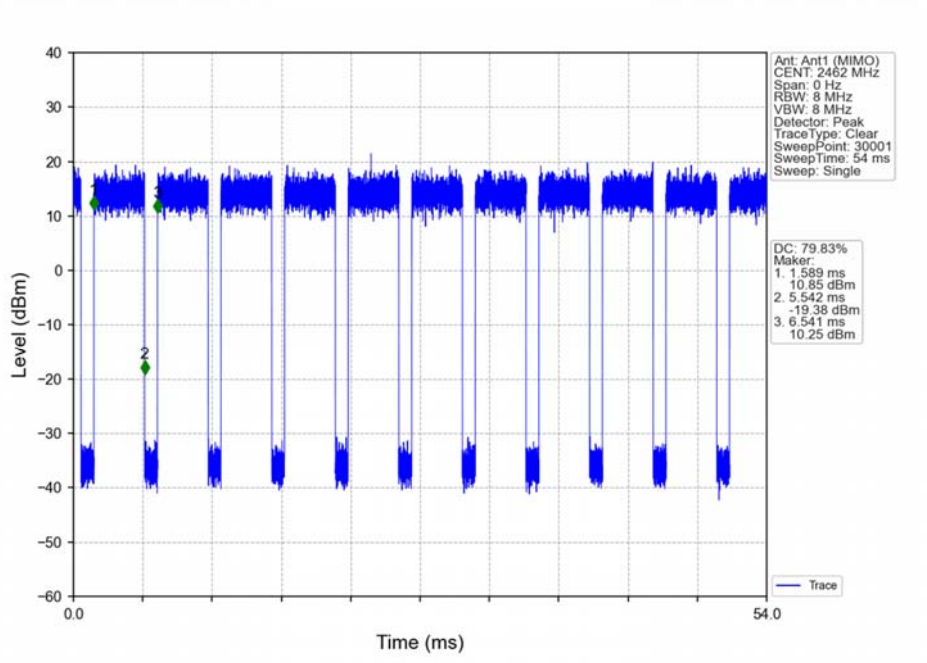
802.11ax(HEW20)_LCH_2412MHz_RU242_Left_Ant1 (MIMO)_NTNV



802.11ax(HEW20)_MCH_2437MHz_RU242_Left_Ant1 (MIMO)_NTNV



802.11ax(HEW20)_HCH_2462MHz_RU242_Left_Ant1 (MIMO)_NTNV



2. Bandwidth

2.1 OBW

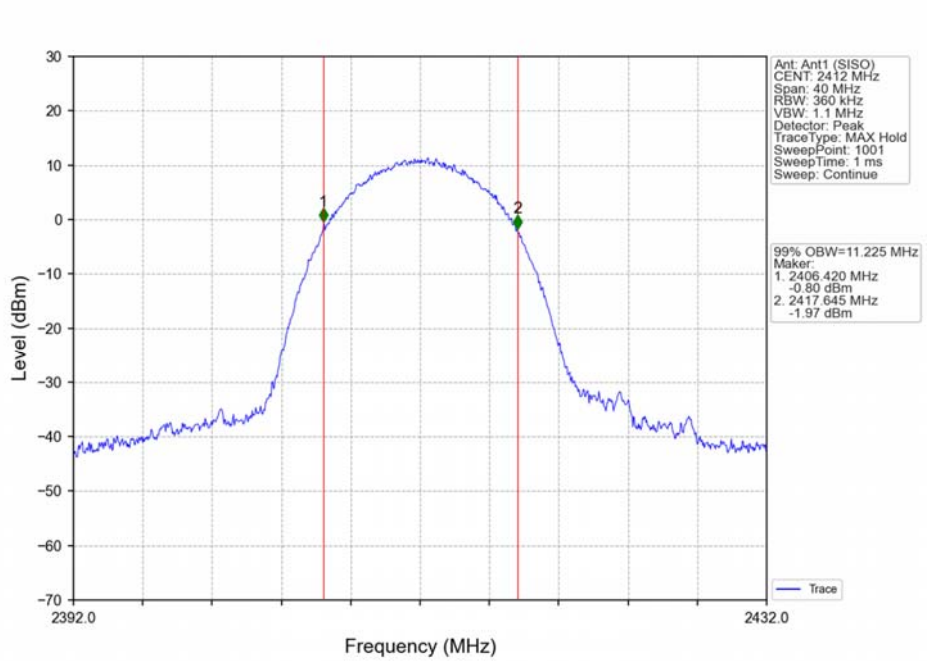
2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)	Verdict
						Result	
802.11b	SISO	2412	/	/	1	11.225	Pass
		2437	/	/	1	11.330	Pass
		2462	/	/	1	11.275	Pass
802.11g	MIMO	2412	/	/	1	20.088	Pass
		2437	/	/	1	20.563	Pass
		2462	/	/	1	20.767	Pass
802.11n (HT20)	MIMO	2412	/	/	1	19.262	Pass
		2437	/	/	1	19.074	Pass
		2462	/	/	1	19.251	Pass
802.11ax (HEW20)	MIMO	2412	RU242	Left	1	19.515	Pass
		2437	RU242	Left	1	19.470	Pass
		2462	RU242	Left	1	19.488	Pass

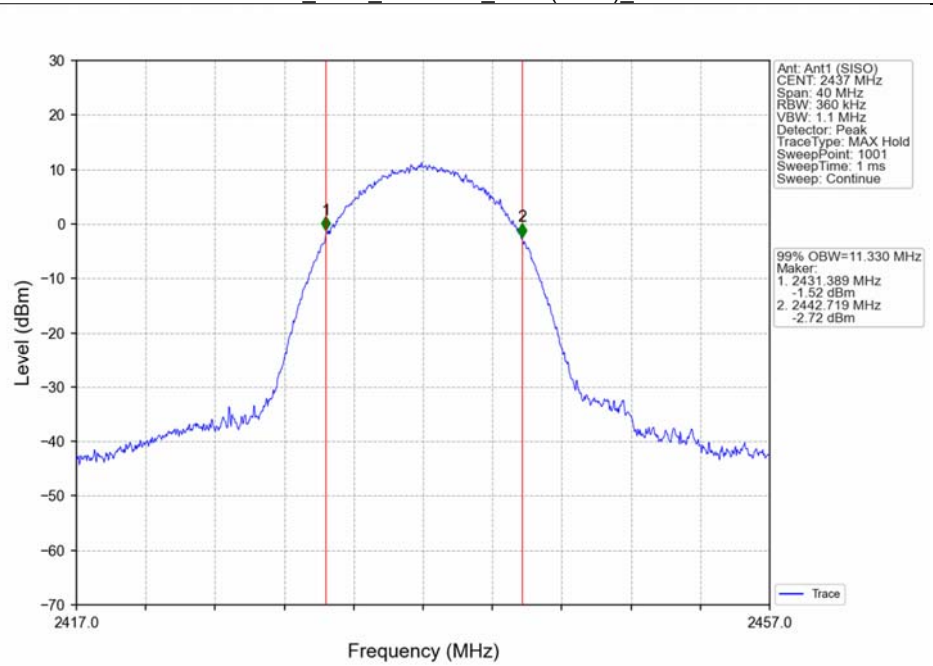
Note: ANT 1(2) Represent the value of antenna 1 and 2, The worst data is Antenna 1, only shown Antenna 1 Plot.

2.1.2 Test Graph

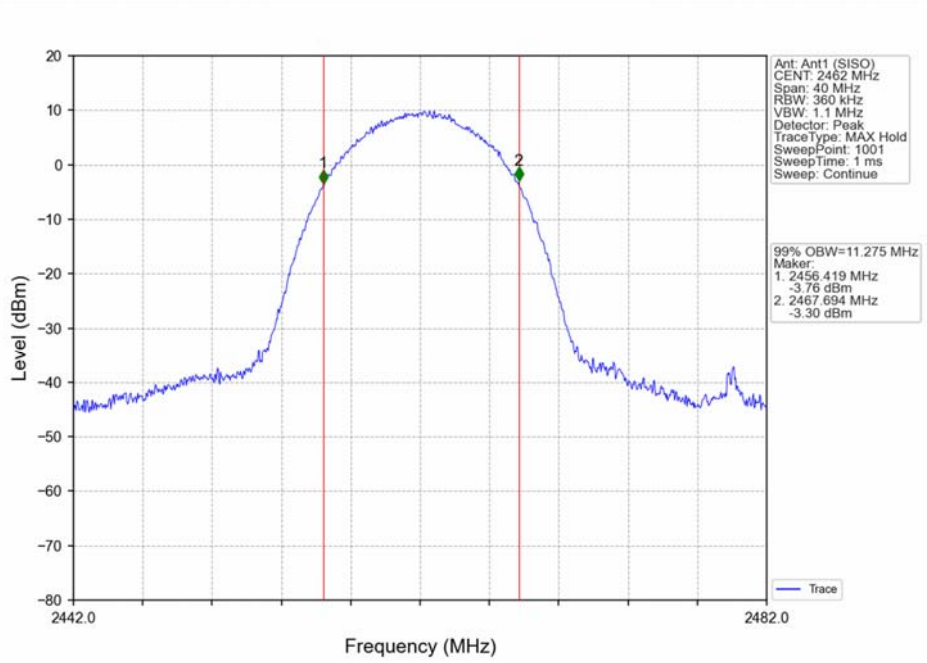
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



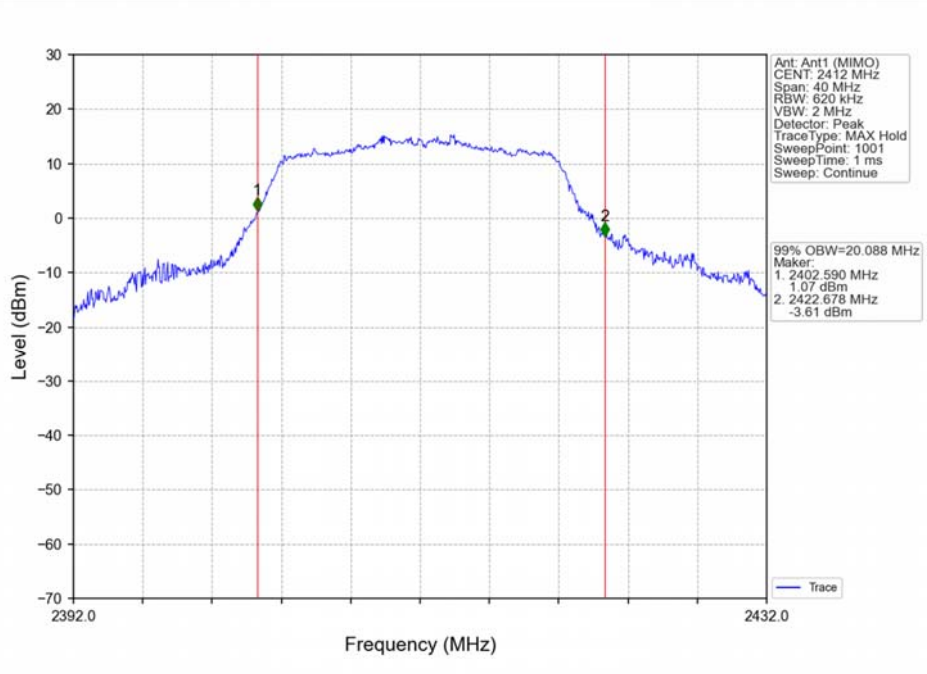
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



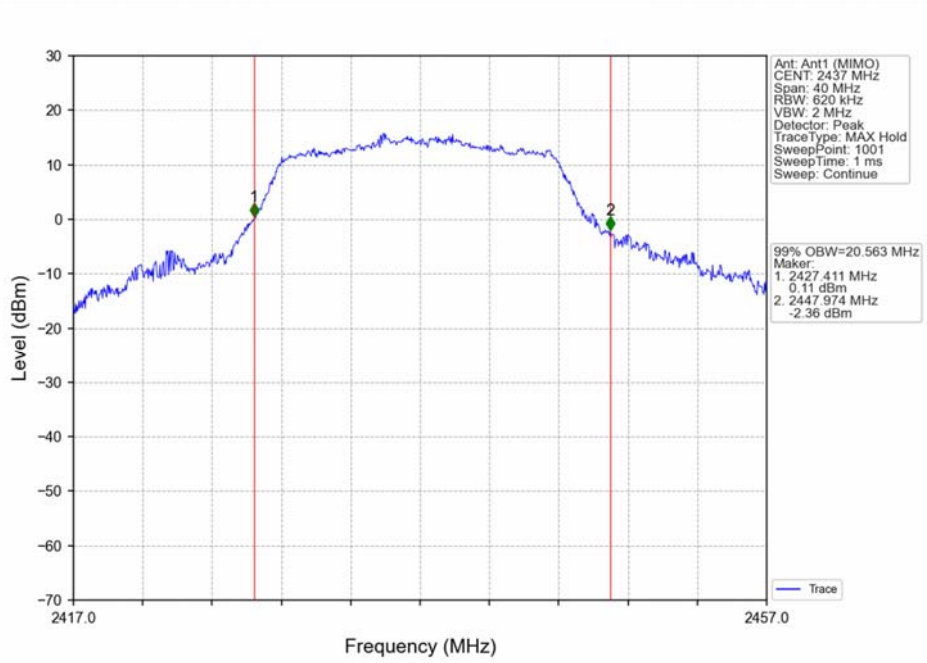
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



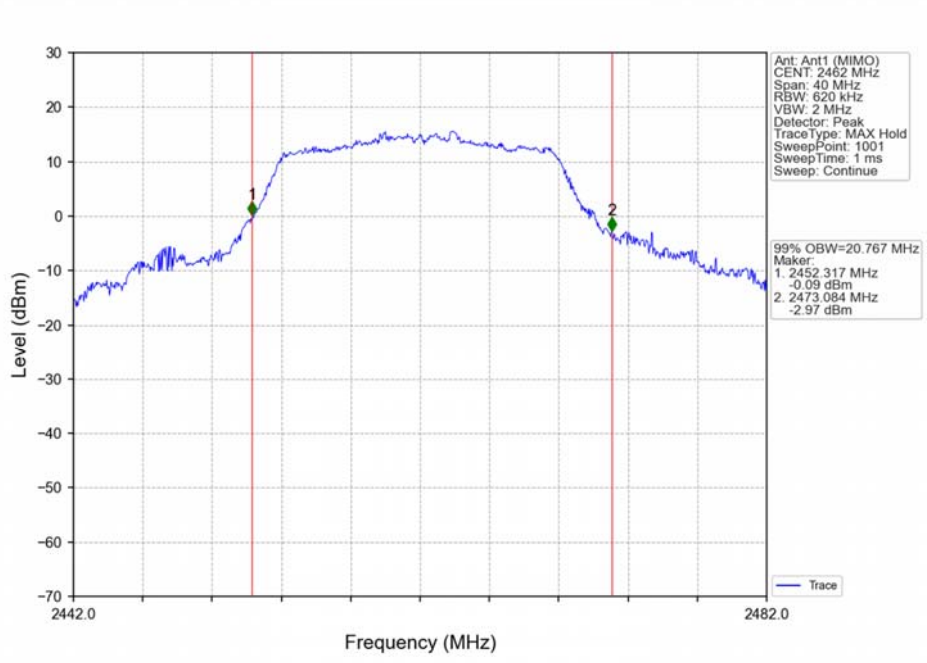
802.11g_LCH_2412MHz_Ant1 (MIMO)_NTNV



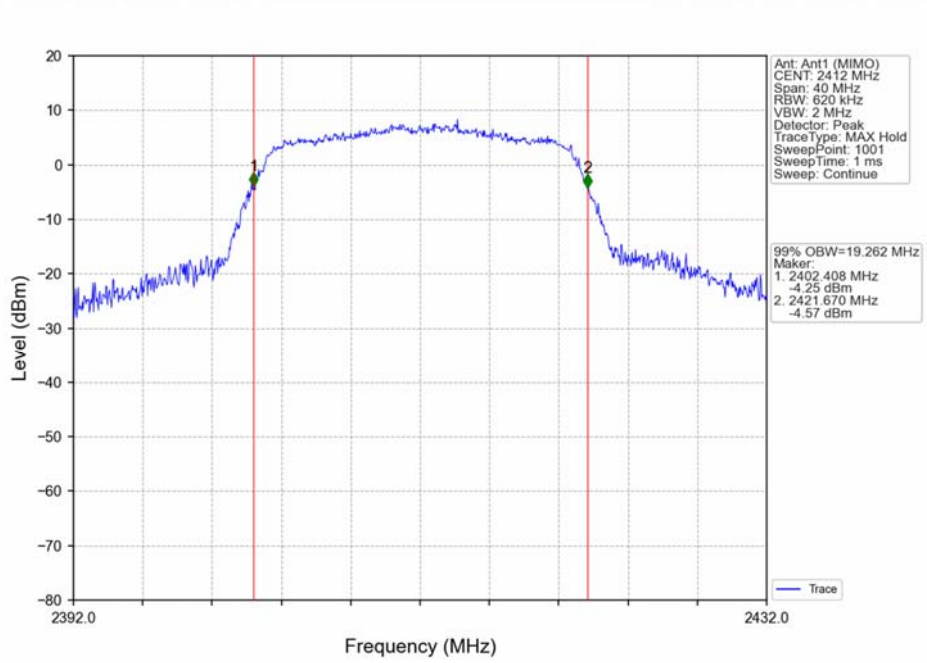
802.11g_MCH_2437MHz_Ant1 (MIMO)_NTNV



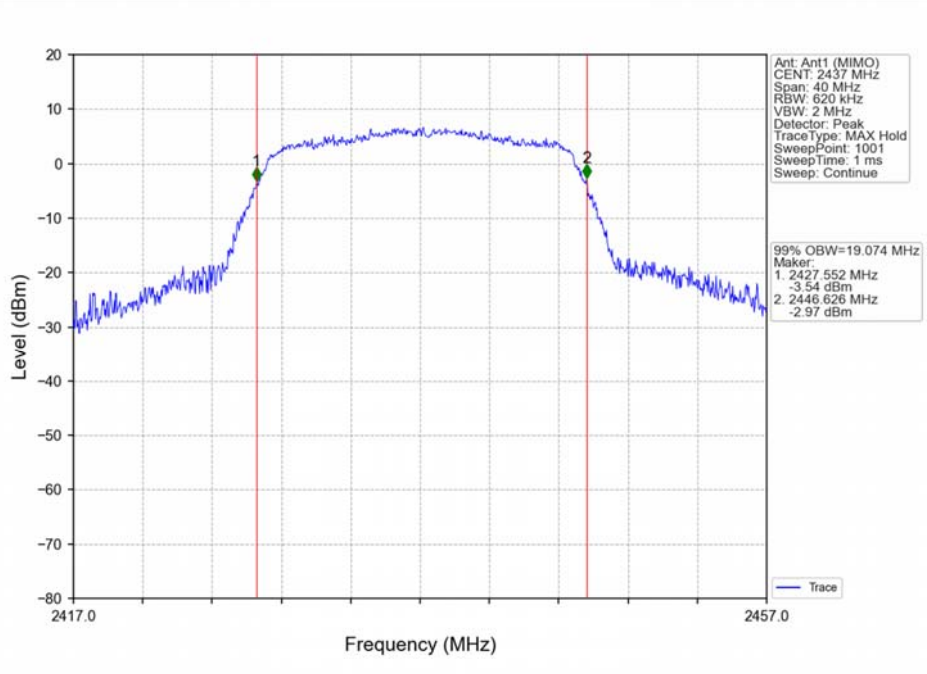
802.11g_HCH_2462MHz_Ant1 (MIMO)_NTNV



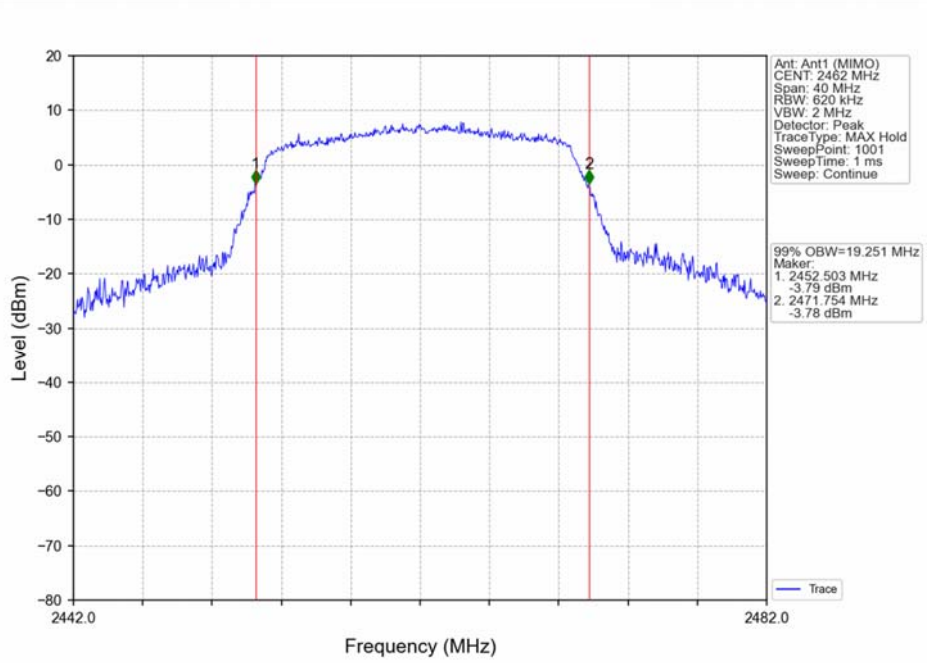
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



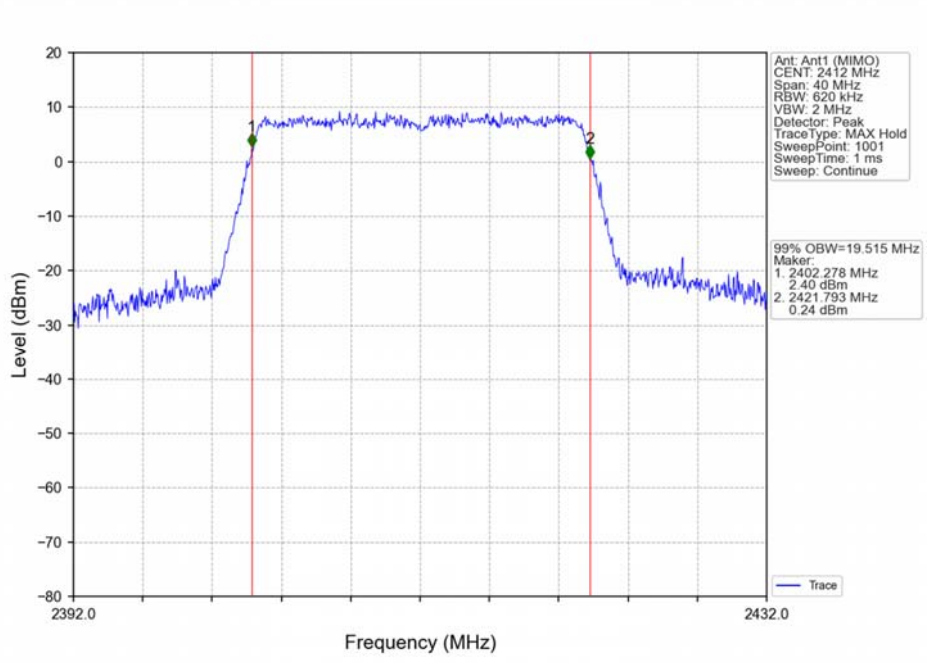
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



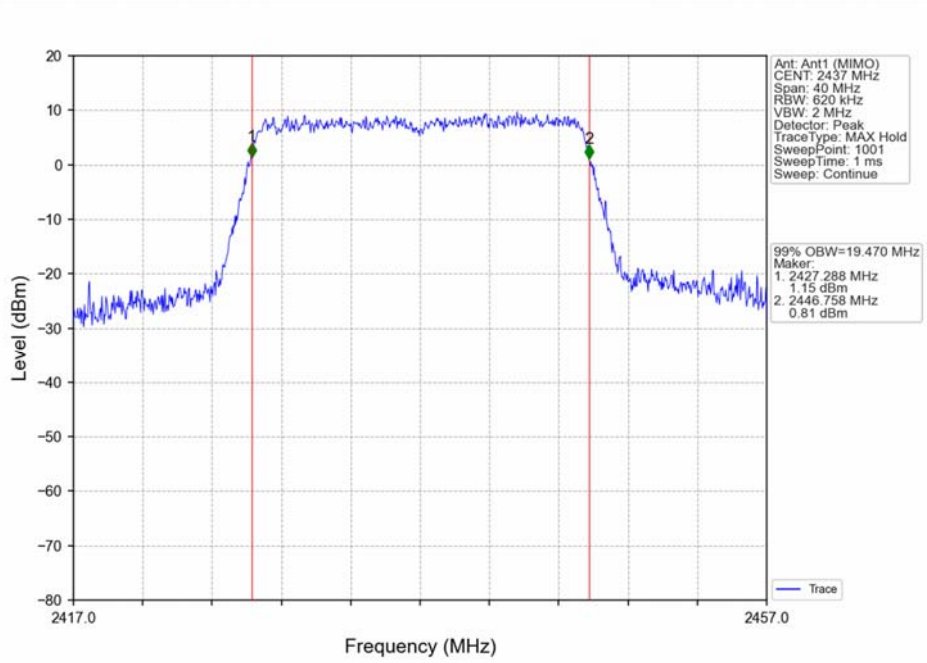
802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



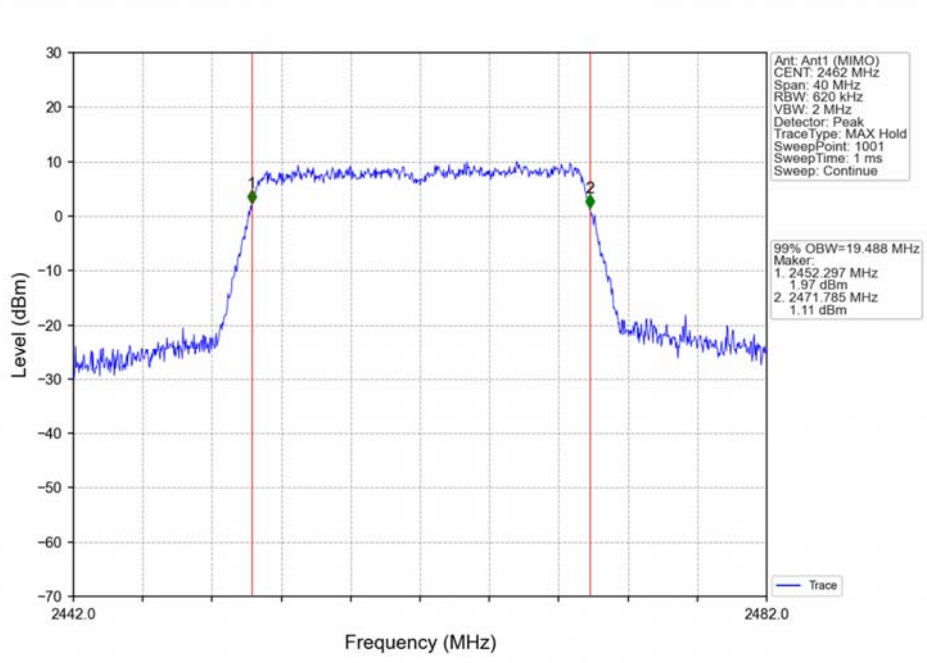
802.11ax(HEW20)_LCH_2412MHz_RU242_Left_Ant1 (MIMO)_NTNV



802.11ax(HEW20)_MCH_2437MHz_RU242_Left_Ant1 (MIMO)_NTNV



802.11ax(HEW20)_HCH_2462MHz_RU242_Left_Ant1 (MIMO)_NTNV



2.2 6dB BW

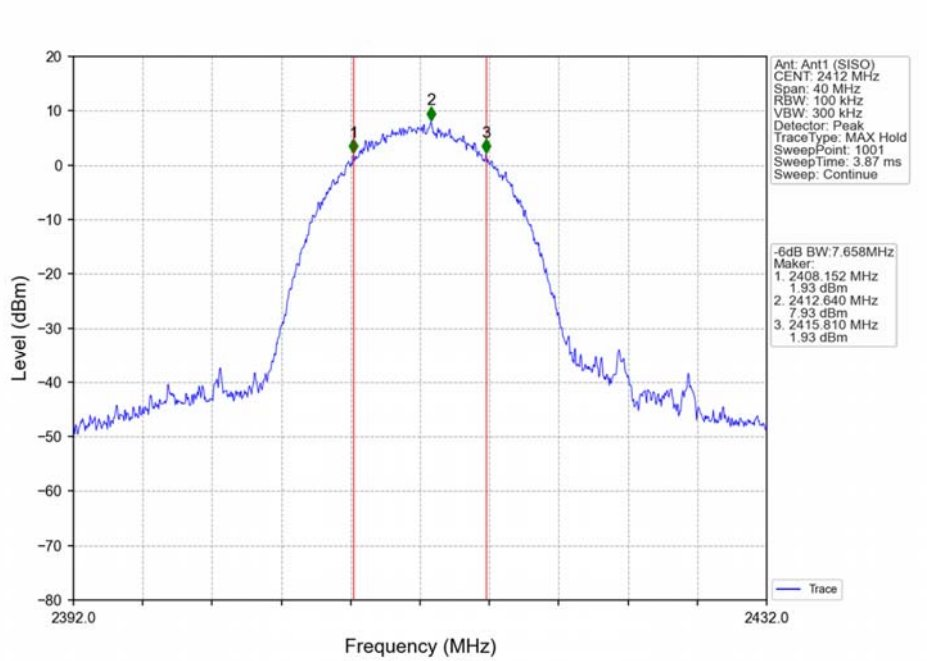
2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	SISO	2412	/	/	1	7.658	>=0.5	Pass
		2437	/	/	1	7.722	>=0.5	Pass
		2462	/	/	1	8.149	>=0.5	Pass
802.11g	MIMO	2412	/	/	1	16.345	>=0.5	Pass
		2437	/	/	1	16.333	>=0.5	Pass
		2462	/	/	1	16.350	>=0.5	Pass
802.11n (HT20)	MIMO	2412	/	/	1	17.620	>=0.5	Pass
		2437	/	/	1	17.617	>=0.5	Pass
		2462	/	/	1	17.588	>=0.5	Pass
802.11ax (HEW20)	MIMO	2412	RU242	Left	1	19.151	>=0.5	Pass
		2437	RU242	Left	1	19.182	>=0.5	Pass
		2462	RU242	Left	1	19.121	>=0.5	Pass

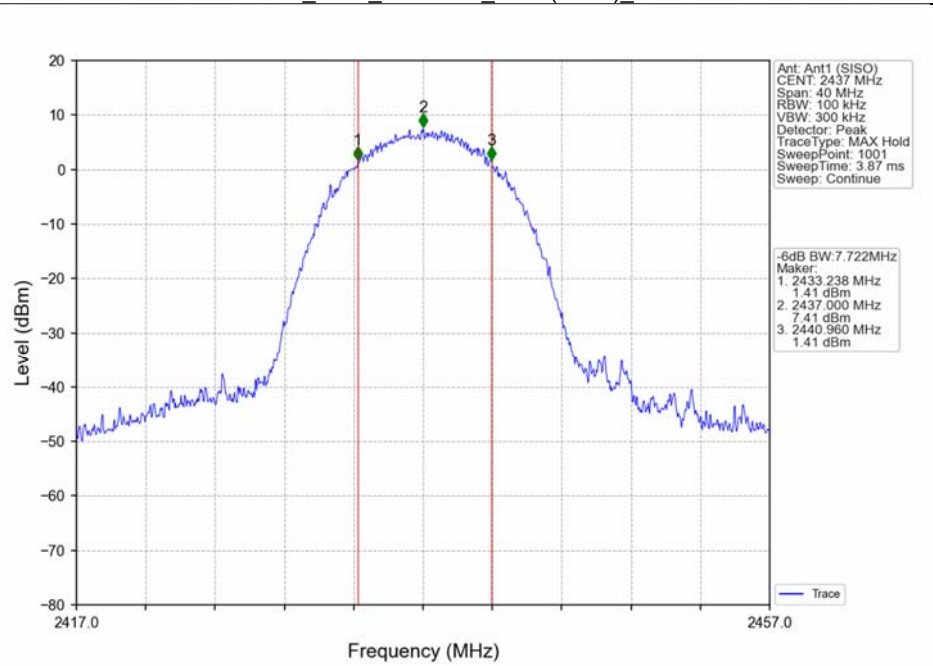
Note: ANT 1(2) Represent the value of antenna 1 and 2, The worst data is Antenna 1, only shown Antenna 1 Plot.

2.2.2 Test Graph

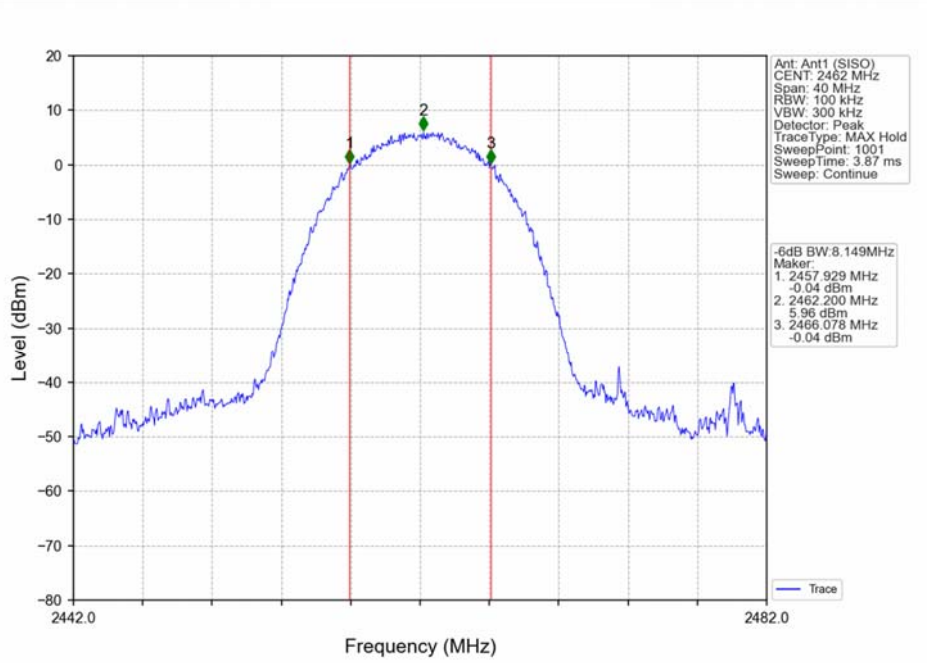
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



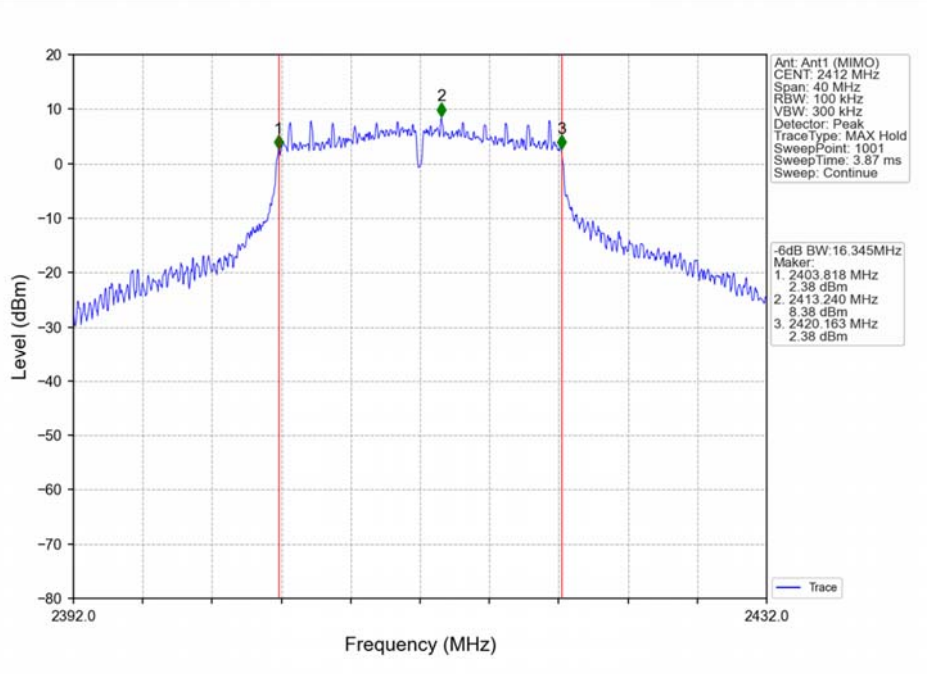
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



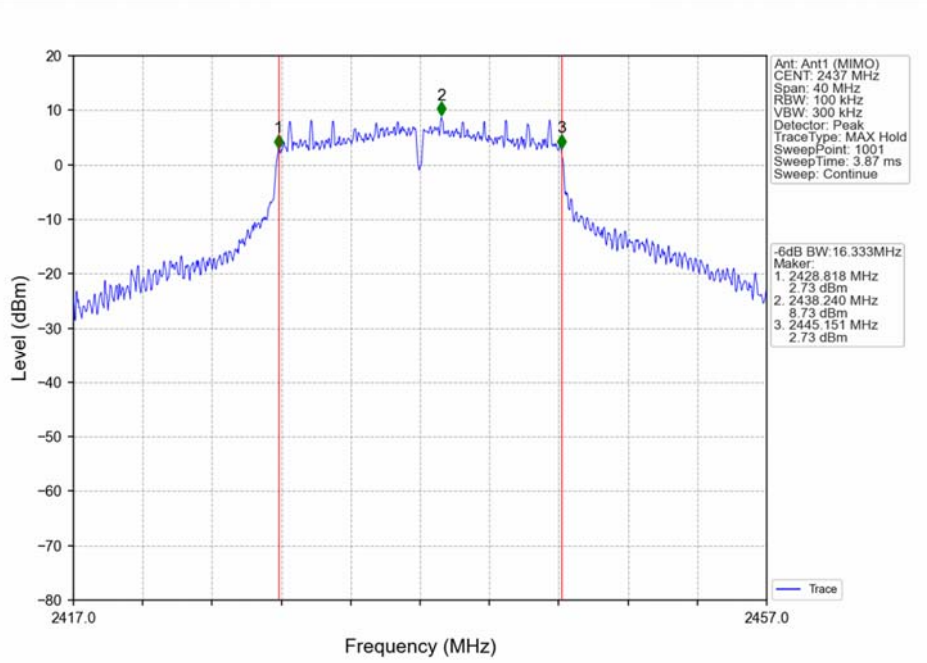
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



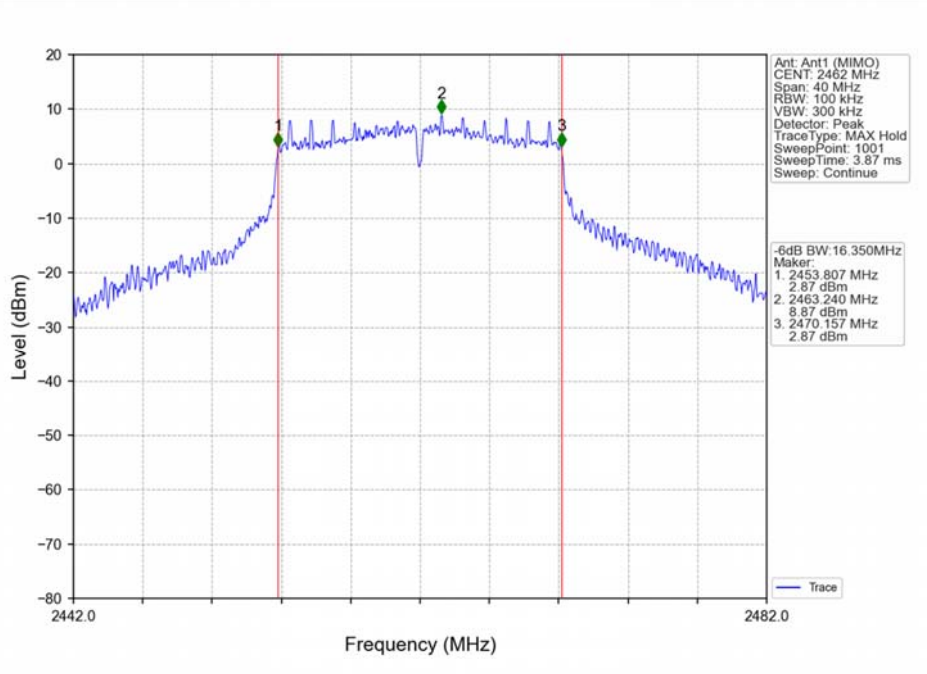
802.11g_LCH_2412MHz_Ant1 (MIMO)_NTNV



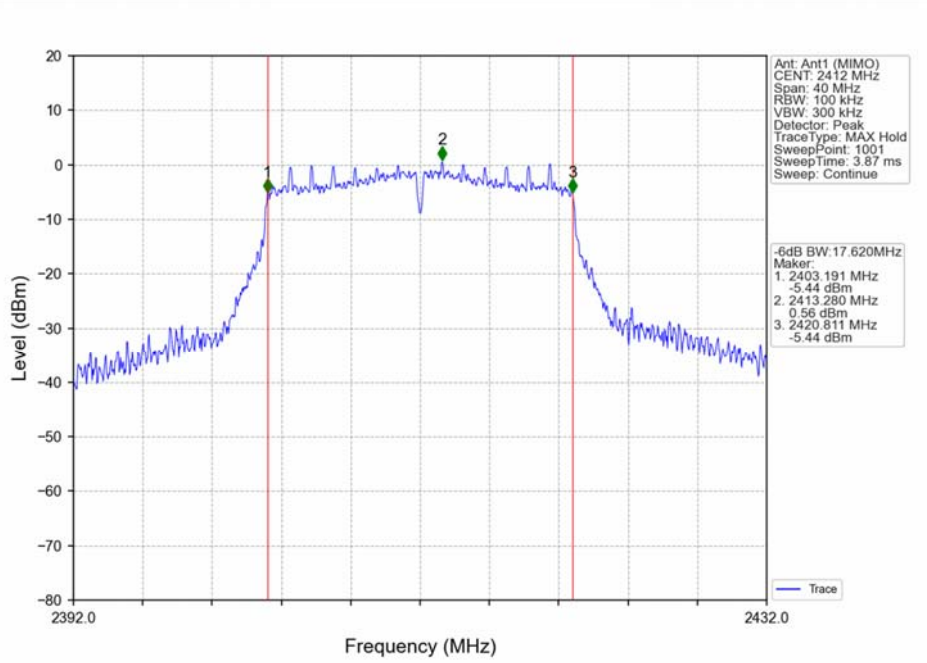
802.11g_MCH_2437MHz_Ant1 (MIMO)_NTNV



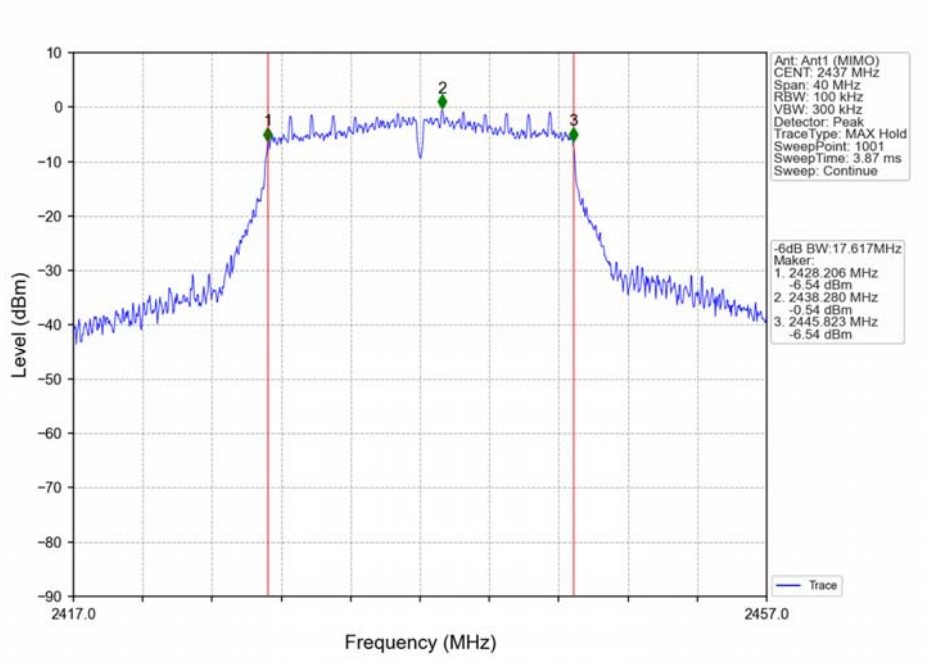
802.11g_HCH_2462MHz_Ant1 (MIMO)_NTNV



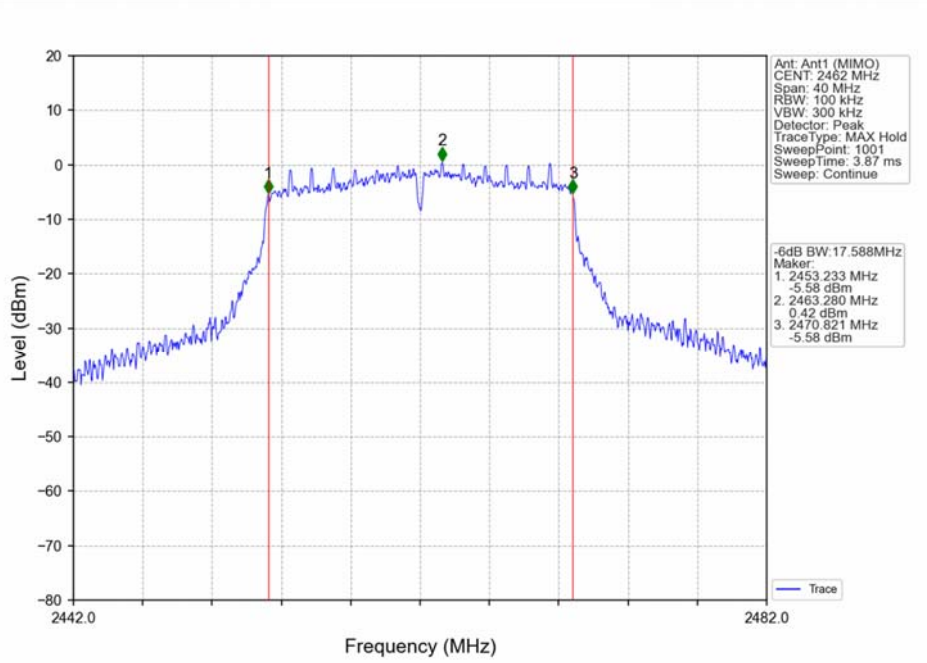
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



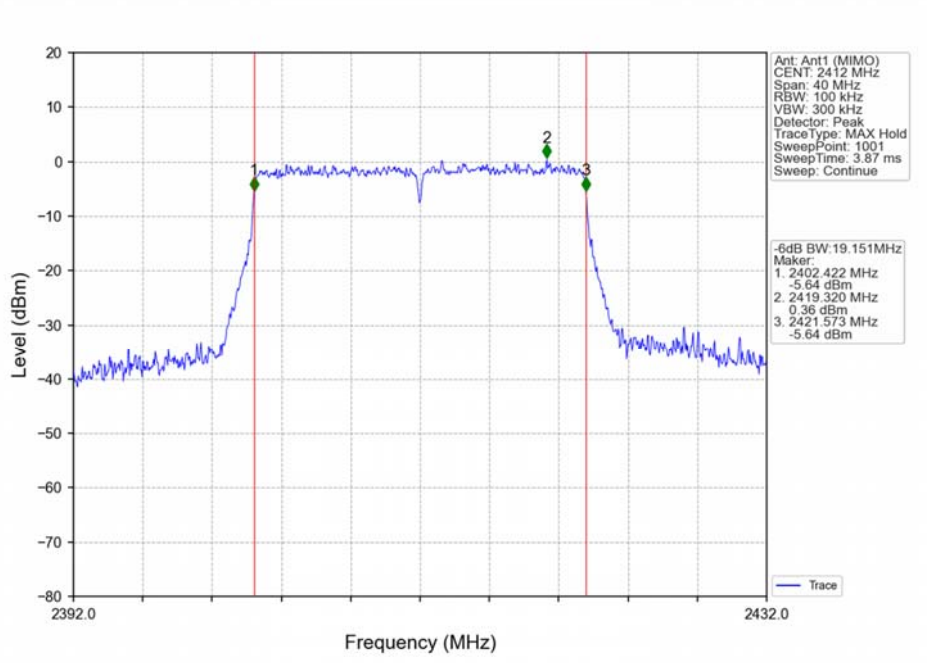
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



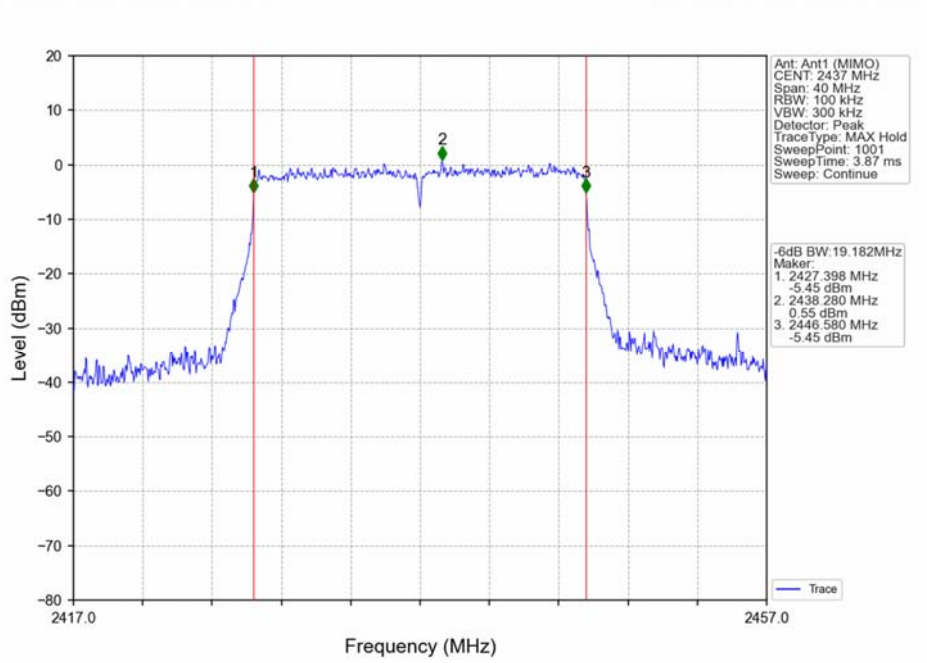
802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



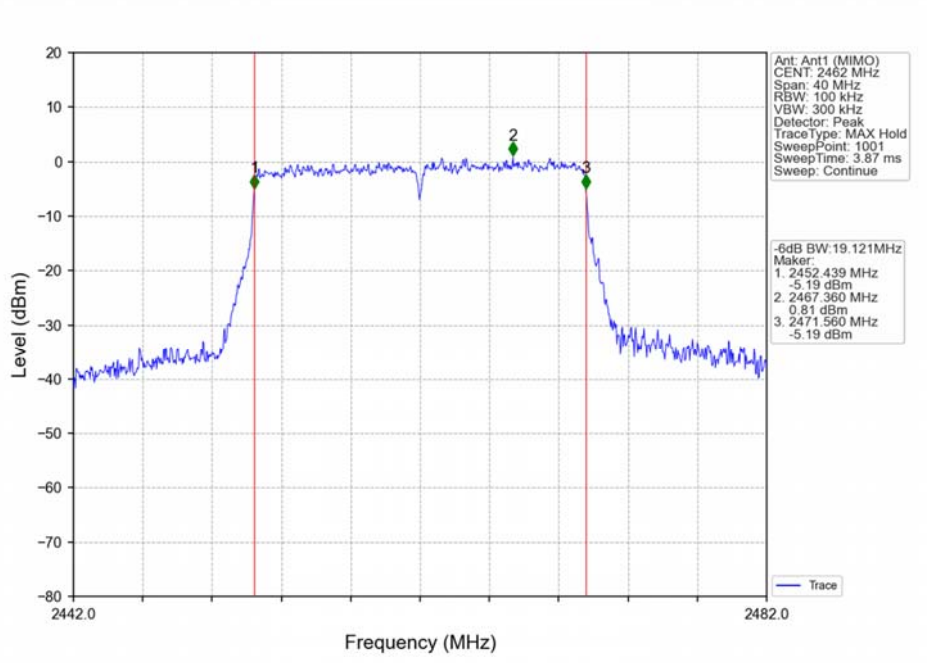
802.11ax(HEW20)_LCH_2412MHz_RU242_Left_Ant1 (MIMO)_NTNV



802.11ax(HEW20)_MCH_2437MHz_RU242_Left_Ant1 (MIMO)_NTNV



802.11ax(HEW20)_HCH_2462MHz_RU242_Left_Ant1 (MIMO)_NTNV



3. Maximum Conducted Output Power

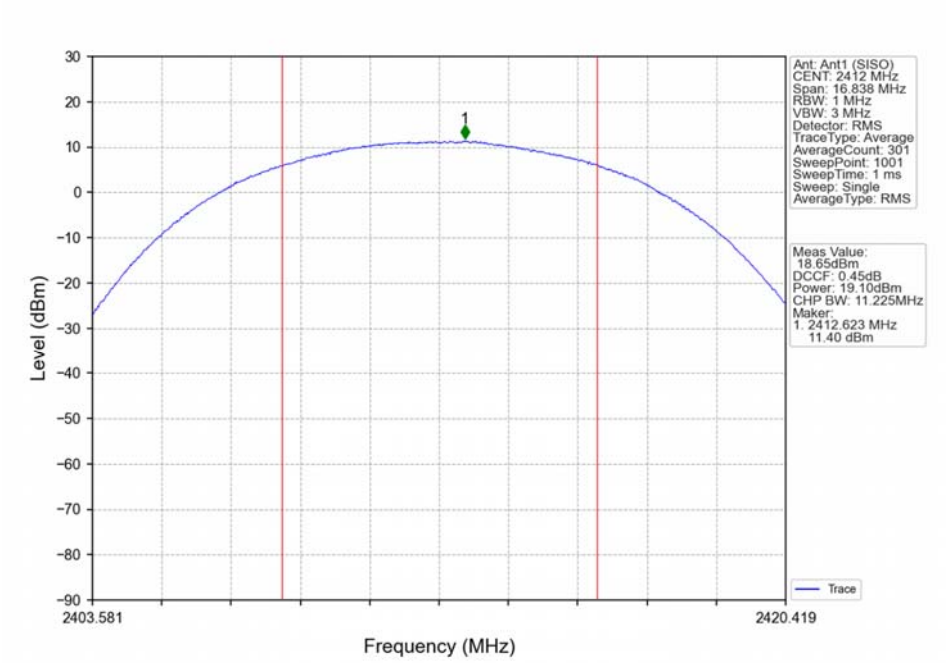
3.1 Power

3.1.1 Test Result

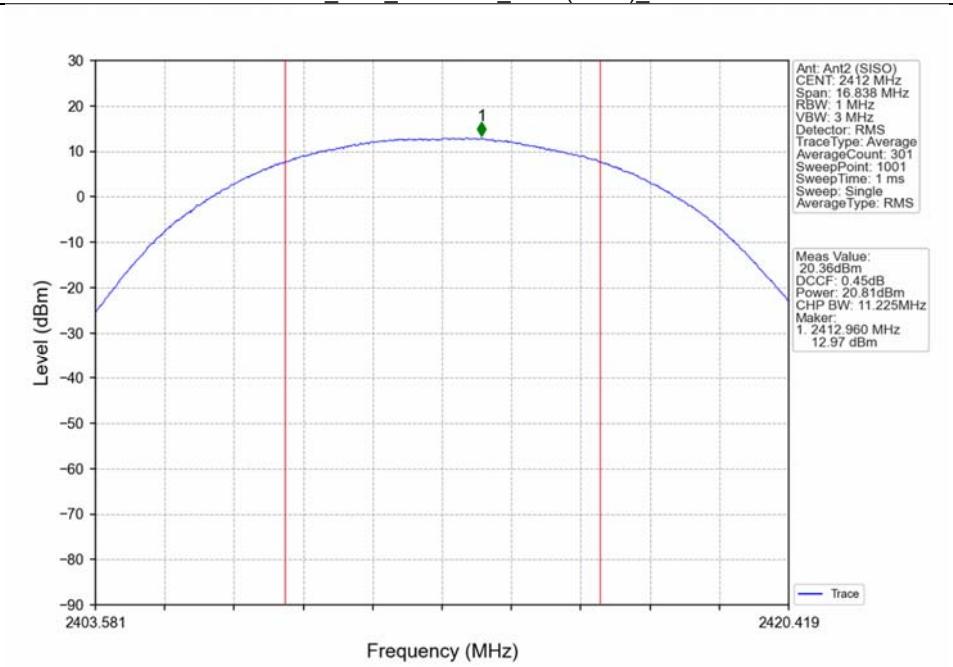
Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum Average Conducted Output Power (dBm)				Verdict
					ANT1	ANT2	MIMO	Limit	
802.11b	SISO	2412	/	/	19.10	20.81	/	<=29.9	Pass
		2437	/	/	19.41	20.91	/	<=29.9	Pass
		2462	/	/	19.11	20.57	/	<=29.9	Pass
802.11g	MIMO	2412	/	/	19.24	20.16	22.73	<=29.9	Pass
		2437	/	/	19.55	19.97	22.78	<=29.9	Pass
		2462	/	/	19.47	19.90	22.70	<=29.9	Pass
802.11n (HT20)	MIMO	2412	/	/	19.81	20.49	23.17	<=29.9	Pass
		2437	/	/	20.01	20.70	23.38	<=29.9	Pass
		2462	/	/	20.00	20.56	23.30	<=29.9	Pass
802.11ax (HEW20)	MIMO	2412	RU242	Left	20.14	20.74	23.46	<=29.9	Pass
		2437	RU242	Left	20.24	20.89	23.59	<=29.9	Pass
		2462	RU242	Left	20.15	20.73	23.46	<=29.9	Pass
Note1: Antenna Gain: Ant1: 6.10dBi; Ant2: 6.10dBi; Note2: Ant1 and Ant2 are Completely uncorrelated, So the Directional Gain is 6.10dBi Note3: Limit=30-(6.10-6)=29.9dBm									

3.1.2 Test Graph

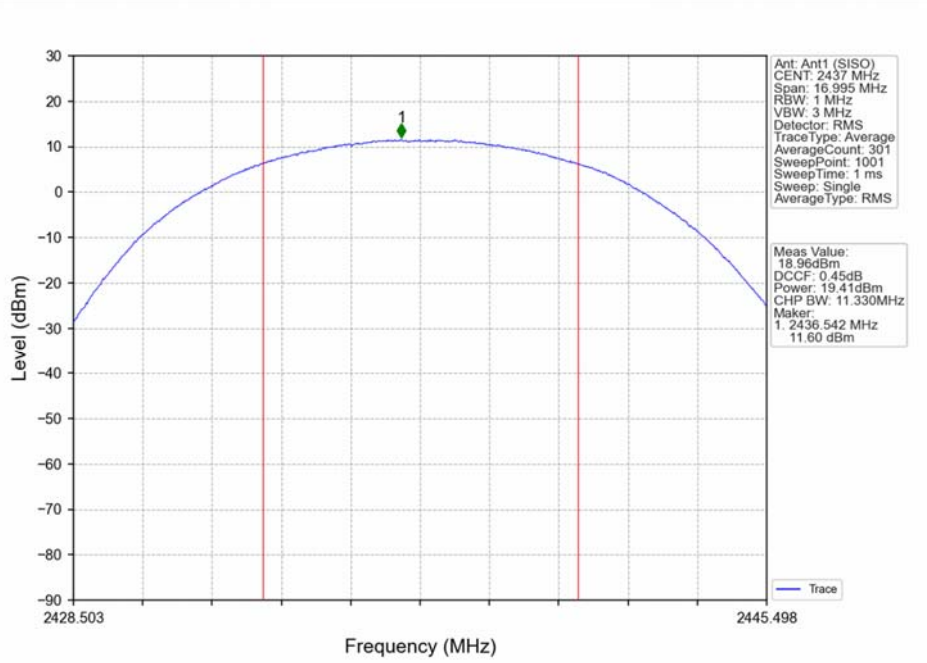
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



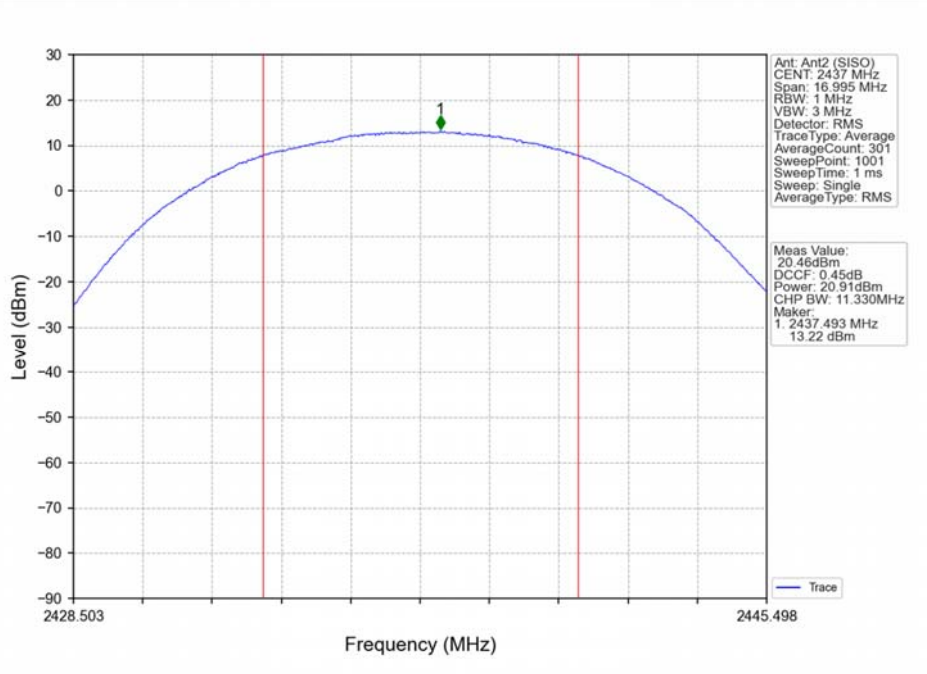
802.11b_LCH_2412MHz_Ant2 (SISO)_NTNV



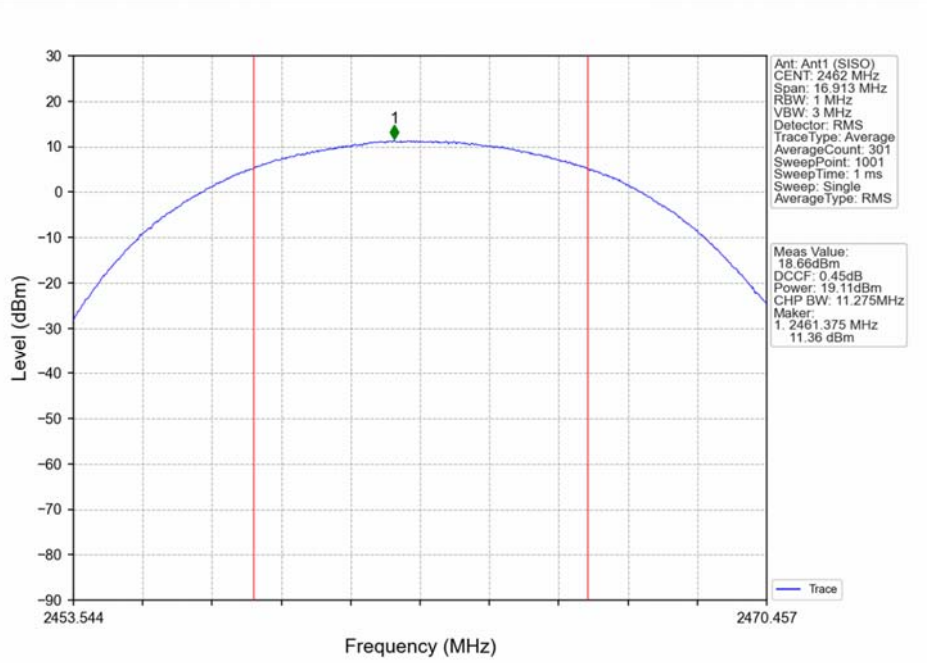
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



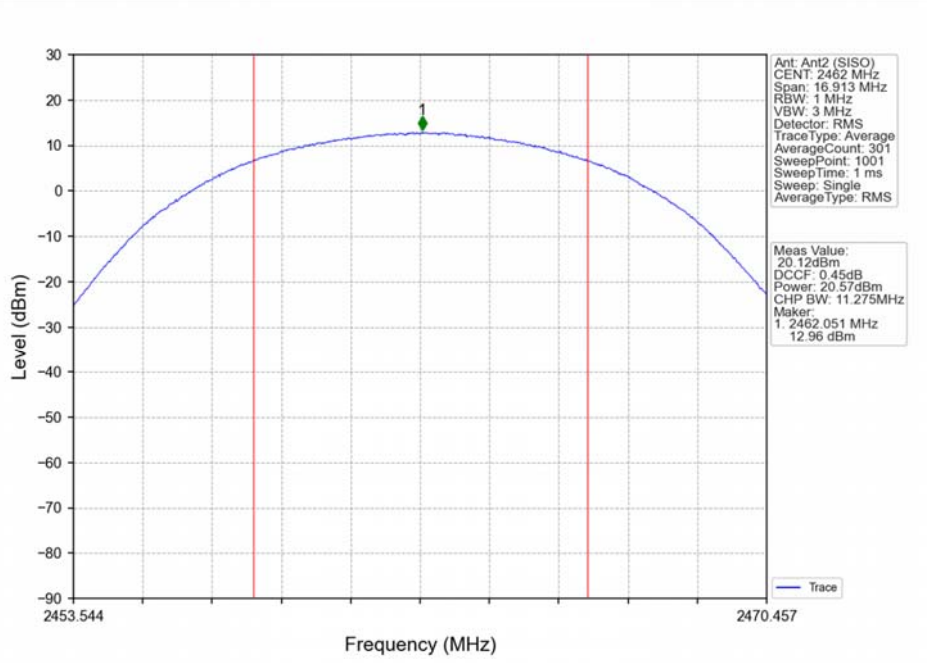
802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



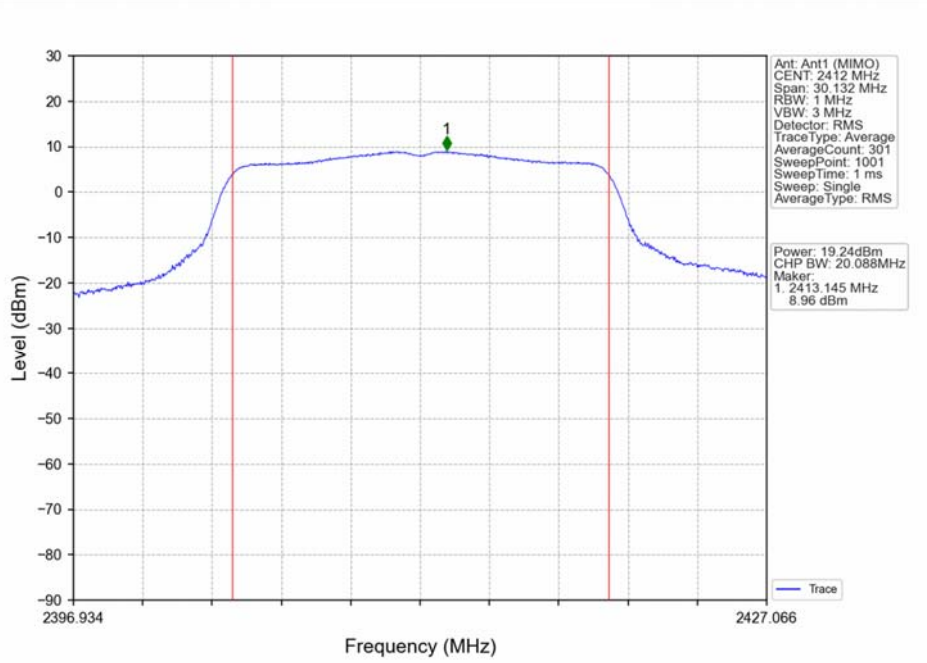
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



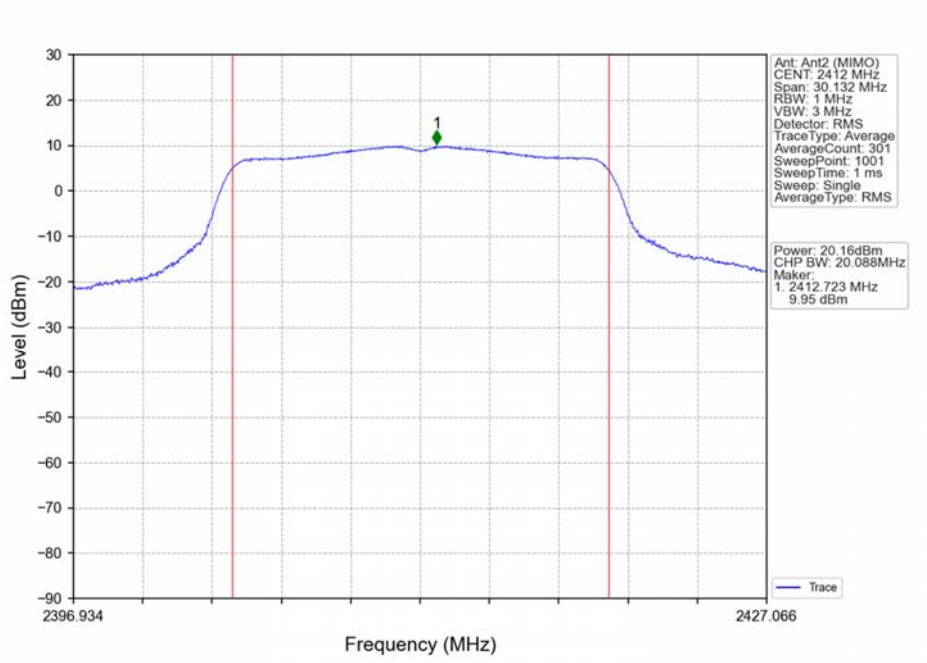
802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



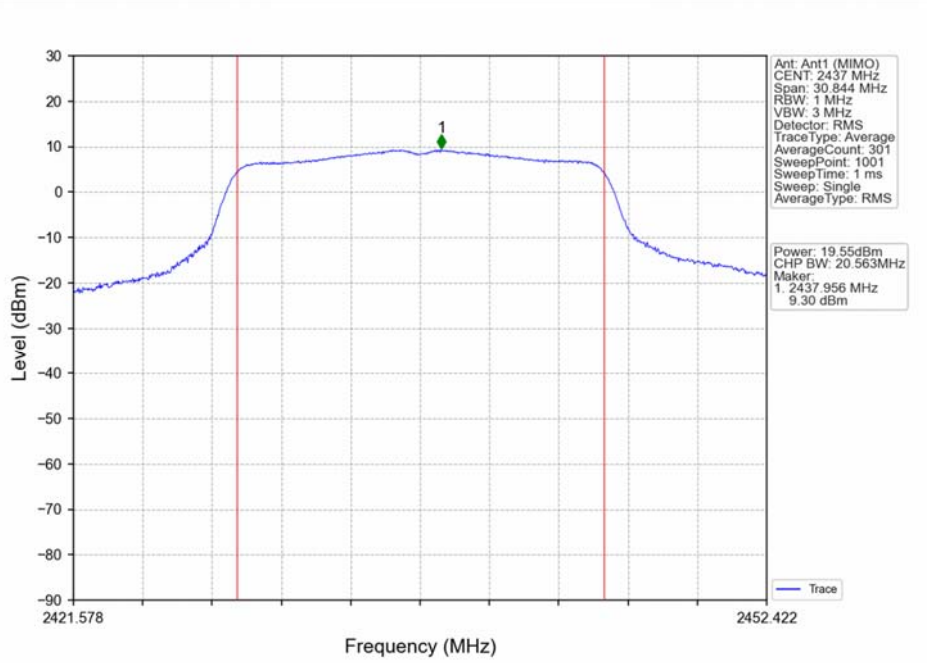
802.11g_LCH_2412MHz_Ant1 (MIMO)_NTNV



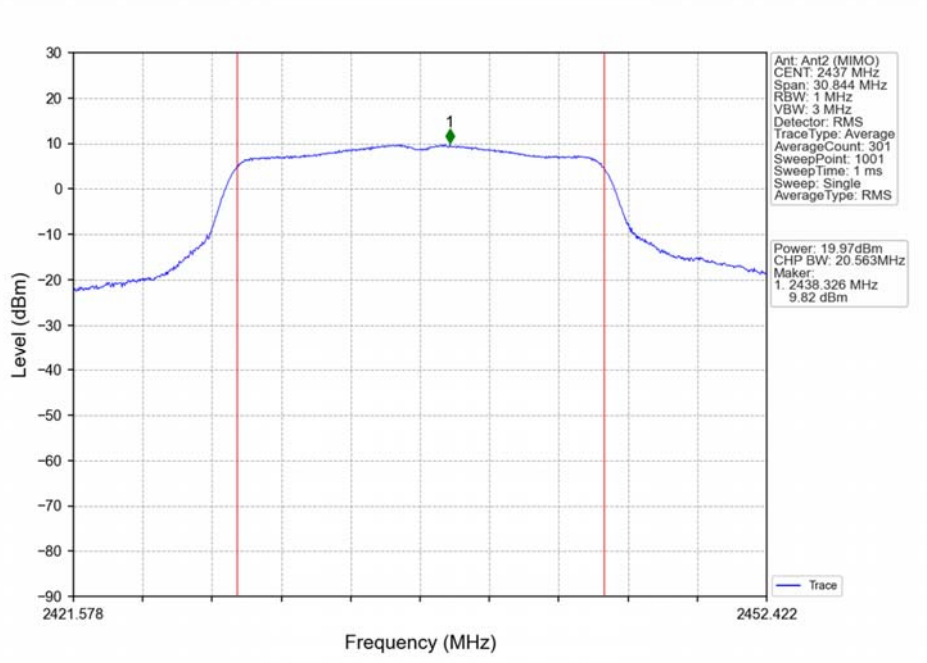
802.11g_LCH_2412MHz_Ant2 (MIMO)_NTNV



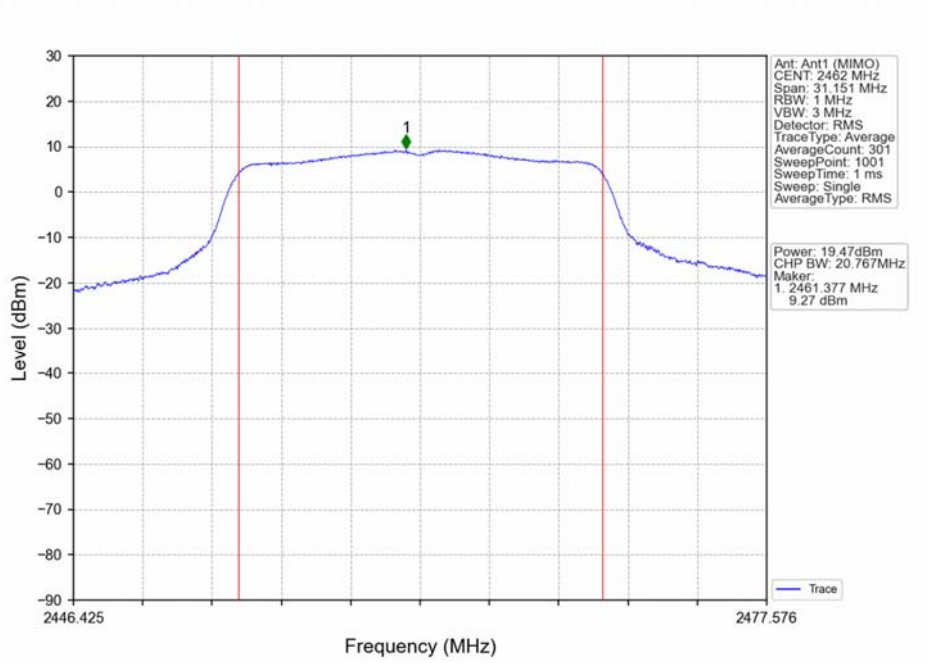
802.11g_MCH_2437MHz_Ant1 (MIMO)_NTNV



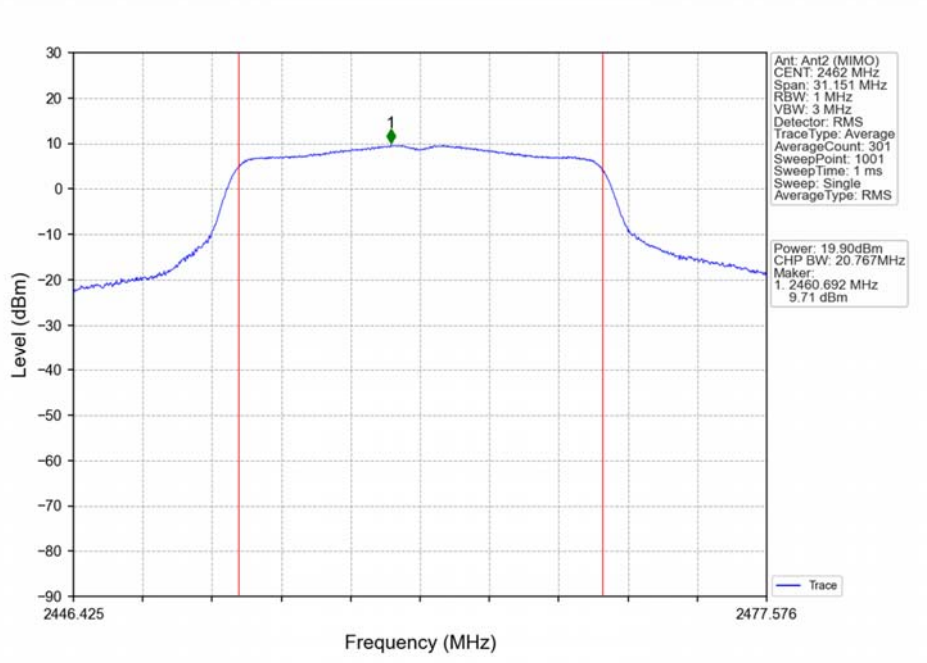
802.11g_MCH_2437MHz_Ant2 (MIMO)_NTNV



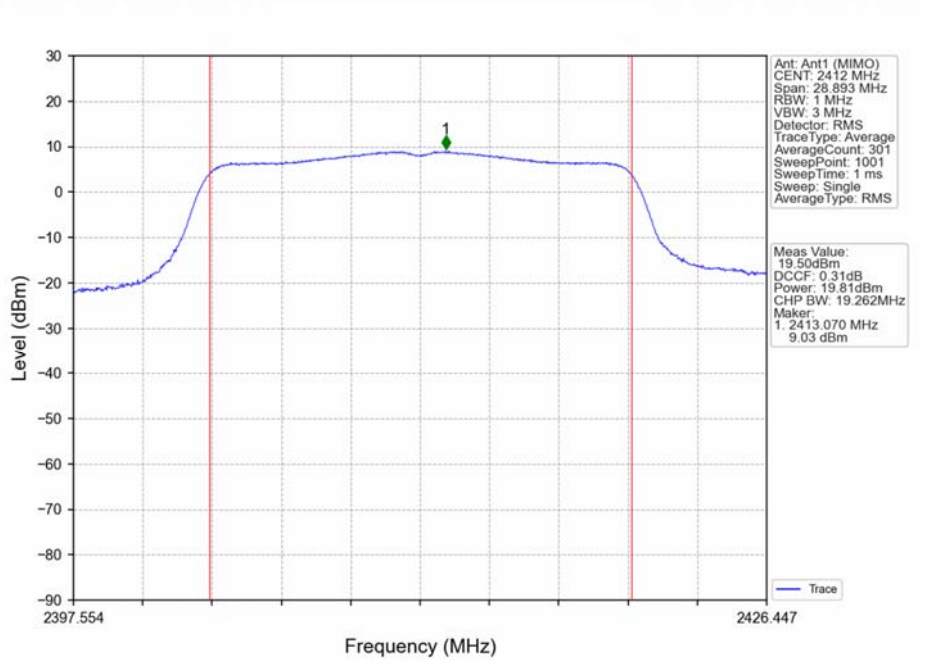
802.11g_HCH_2462MHz_Ant1 (MIMO)_NTNV



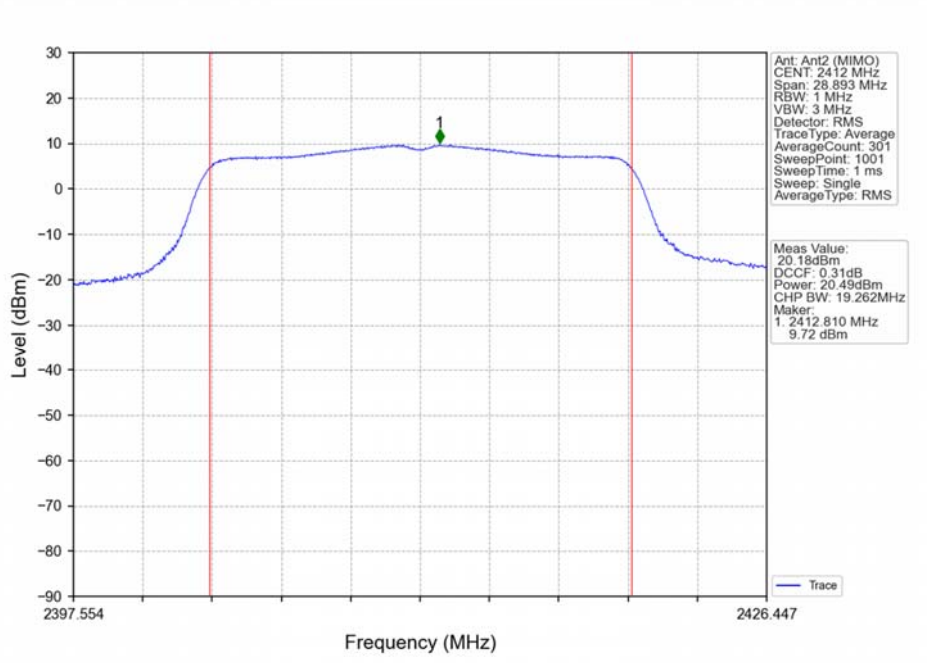
802.11g_HCH_2462MHz_Ant2 (MIMO)_NTNV



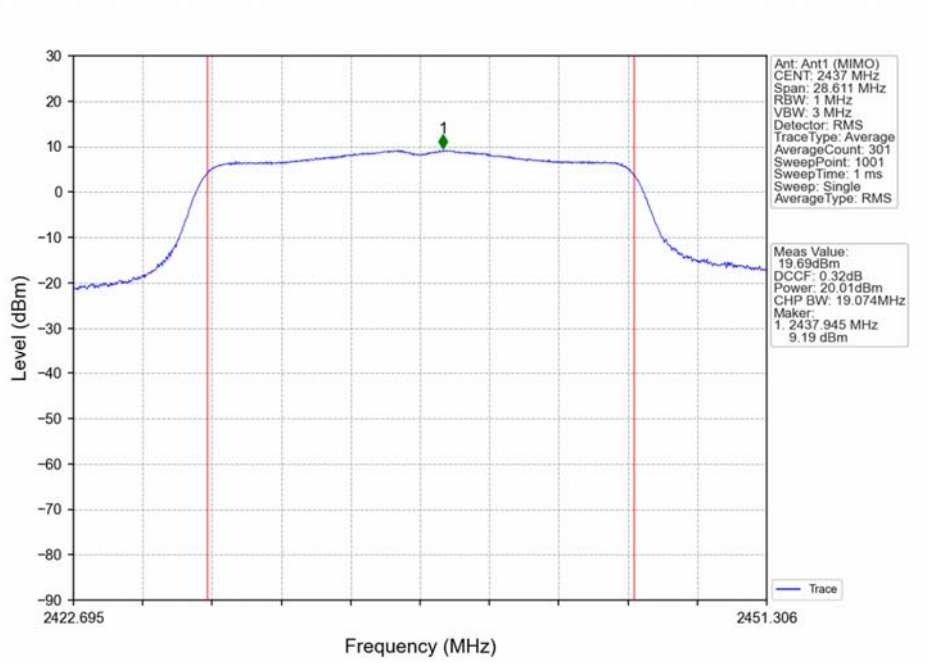
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



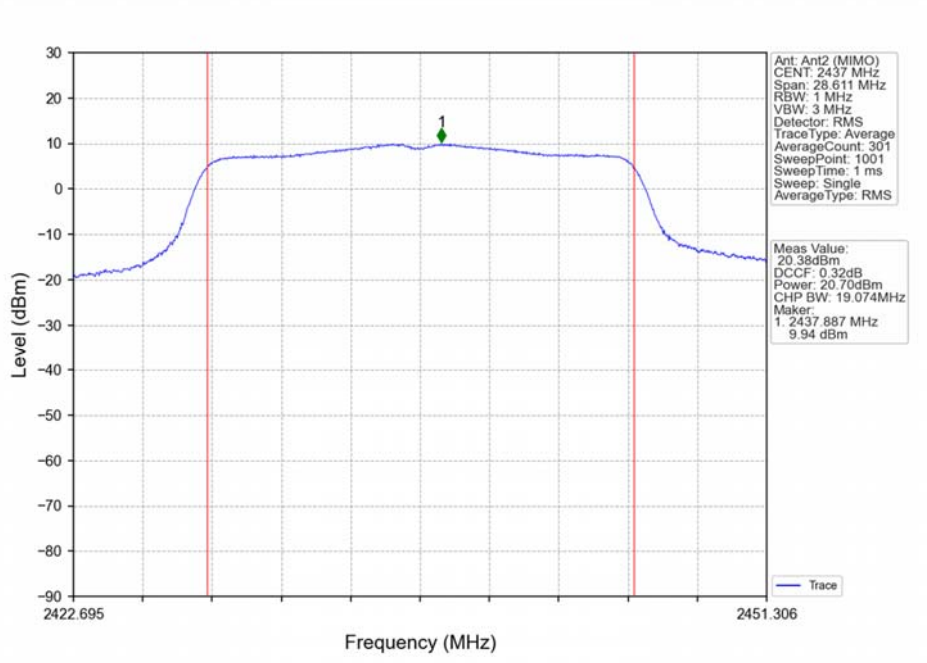
802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



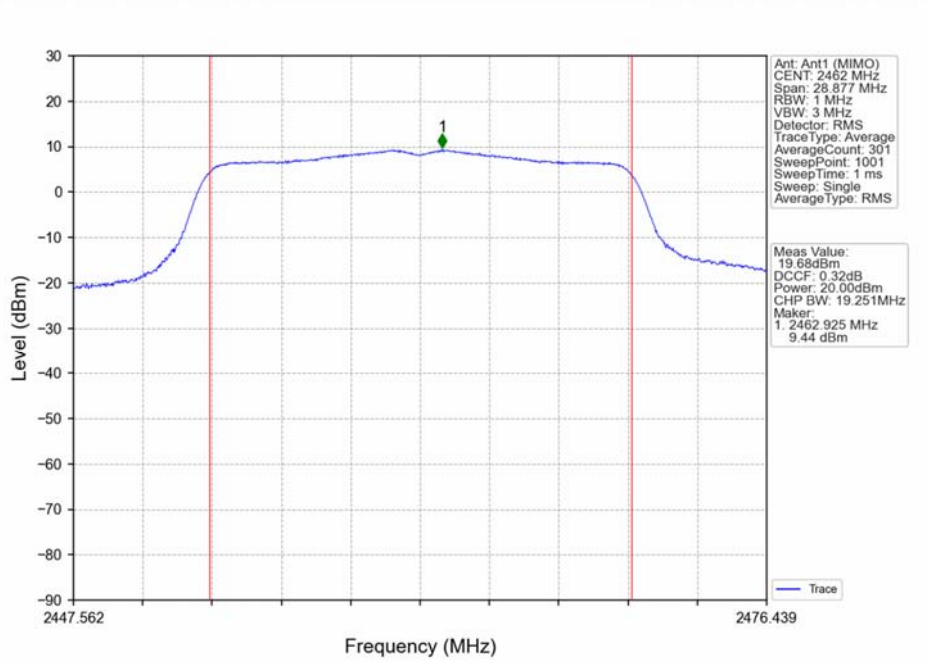
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



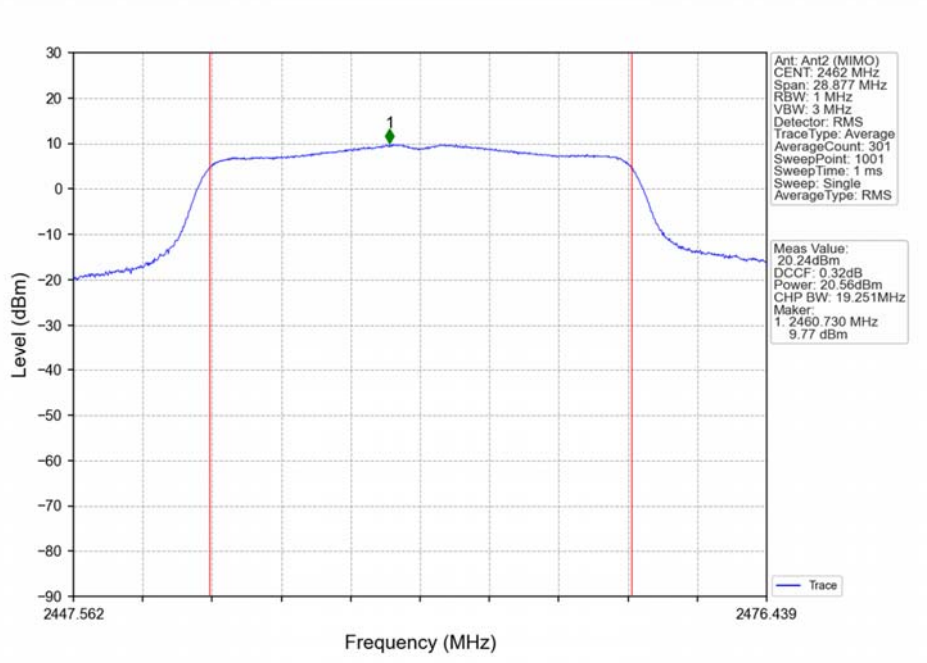
802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



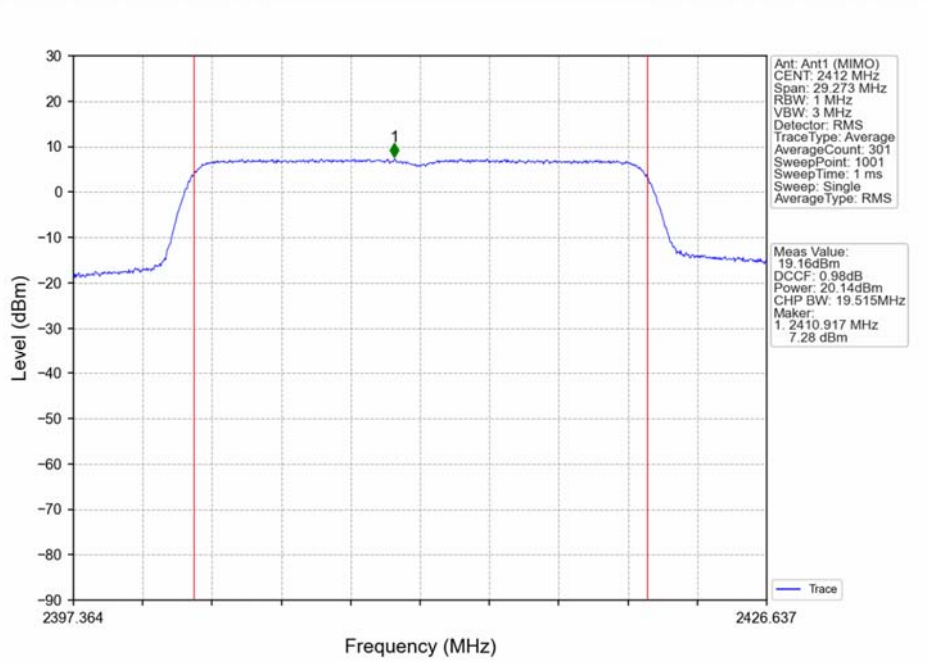
802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



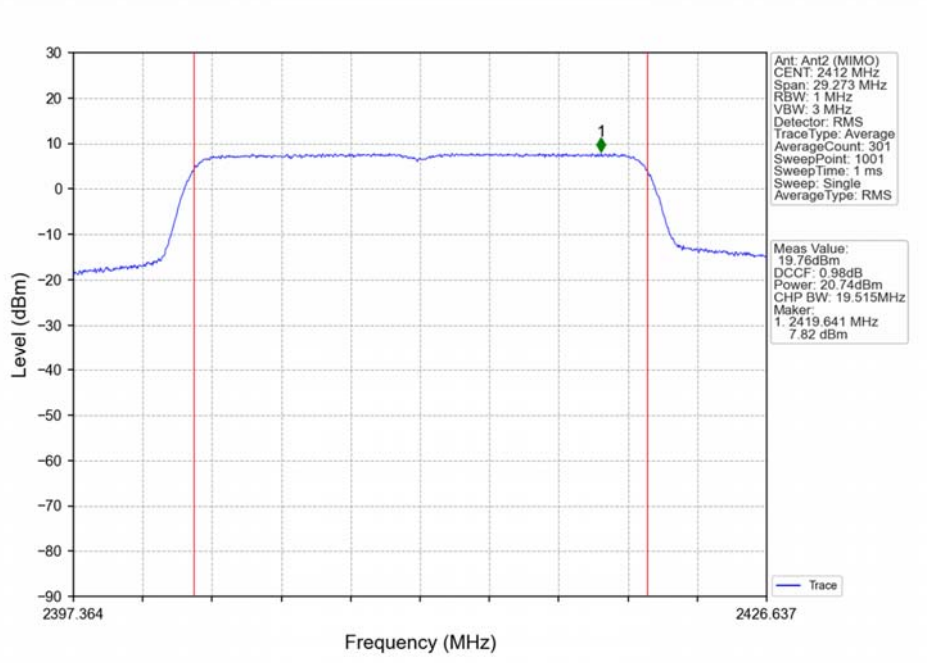
802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV



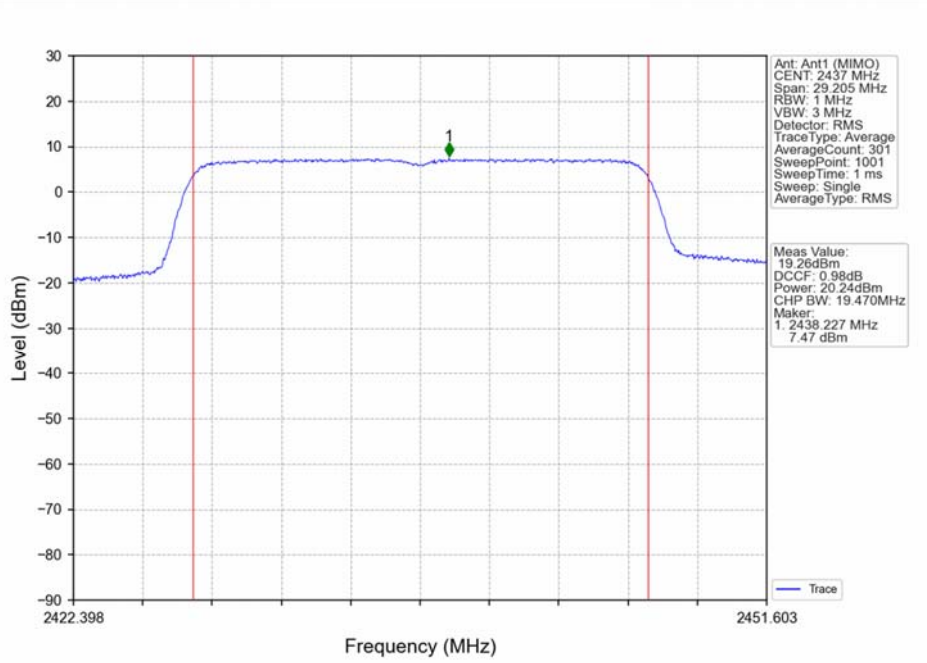
802.11ax(HEW20)_LCH_2412MHz_RU242_Left_Ant1 (MIMO)_NTNV



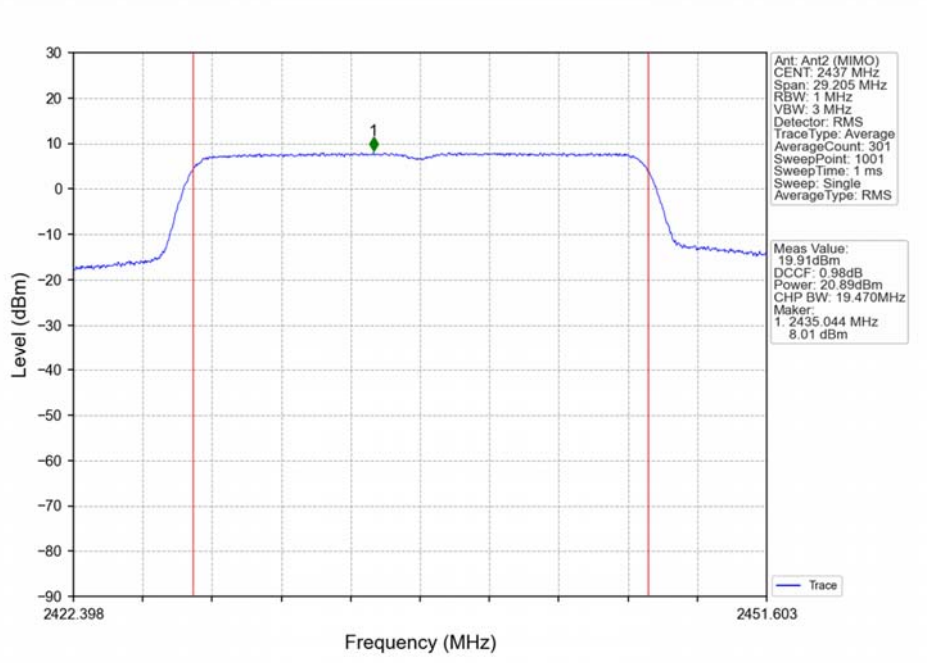
802.11ax(HEW20)_LCH_2412MHz_RU242_Left_Ant2 (MIMO)_NTNV



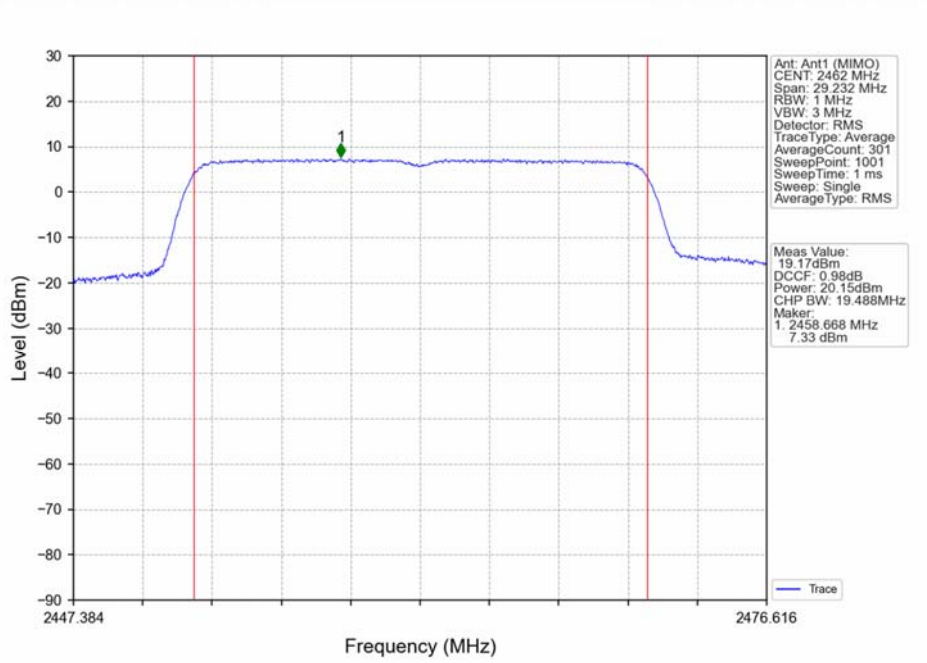
802.11ax(HEW20)_MCH_2437MHz_RU242_Left_Ant1 (MIMO)_NTNV



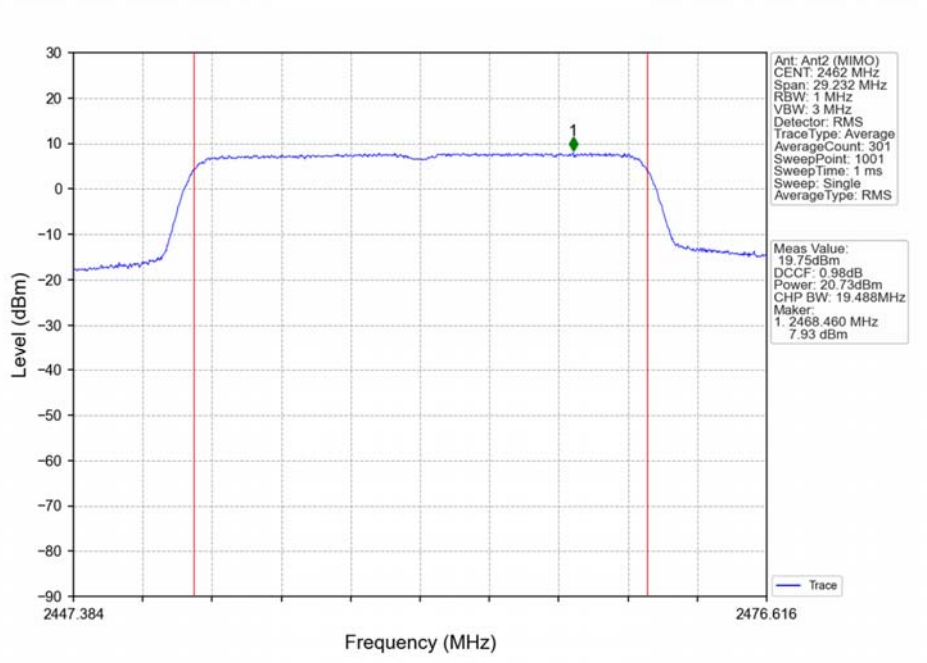
802.11ax(HEW20)_MCH_2437MHz_RU242_Left_Ant2 (MIMO)_NTNV



802.11ax(HEW20)_HCH_2462MHz_RU242_Left_Ant1 (MIMO)_NTNV



802.11ax(HEW20)_HCH_2462MHz_RU242_Left_Ant2 (MIMO)_NTNV



4. Maximum Power Spectral Density

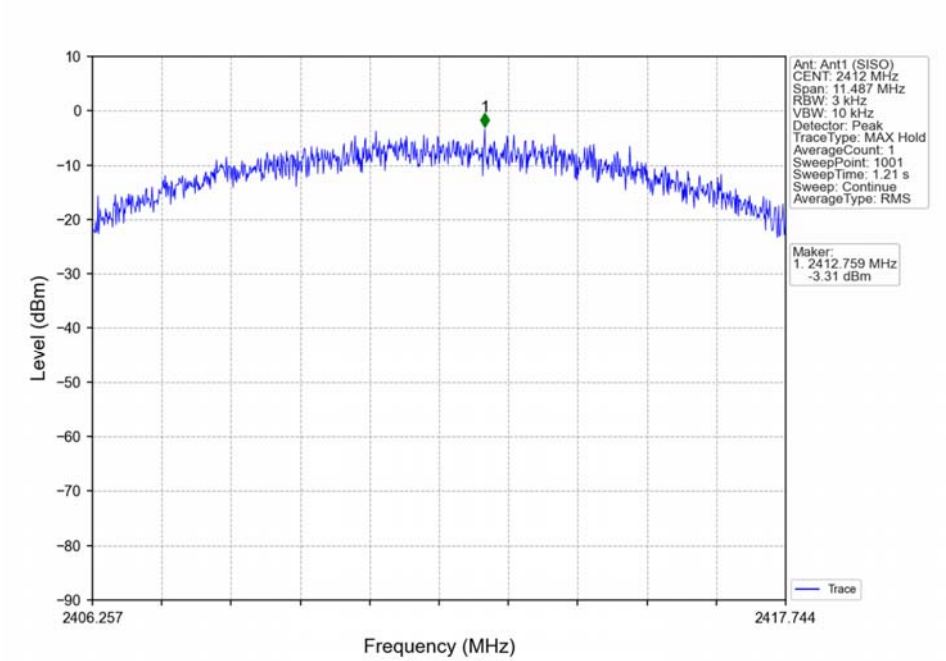
4.1 PSD

4.1.1 Test Result

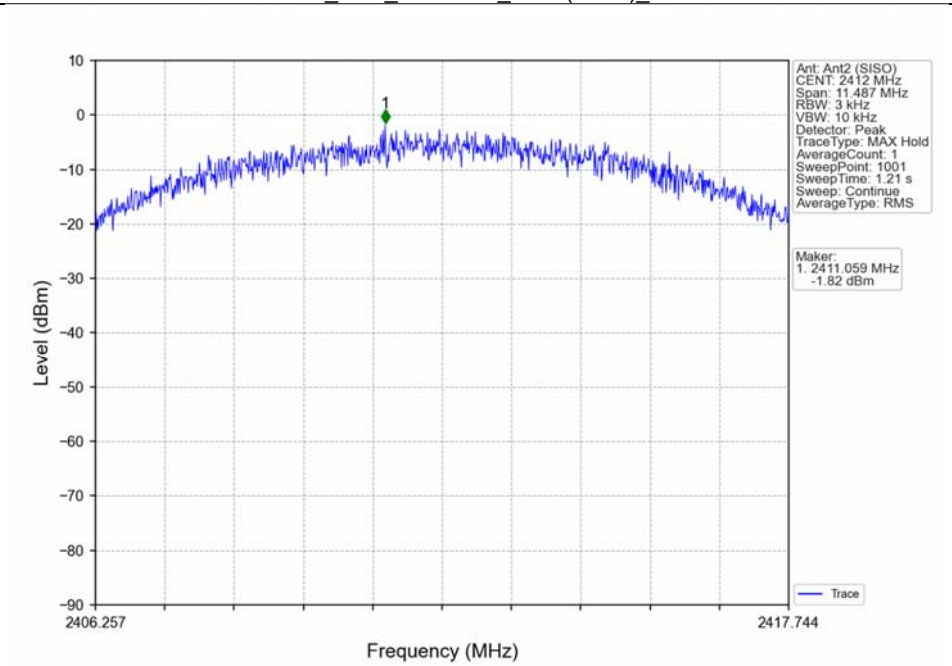
Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/3kHz)				Verdict
					ANT1	ANT2	MIMO	Limit	
802.11b	SISO	2412	/	/	-3.31	-1.82	/	<=7.9	Pass
		2437	/	/	-3.89	-1.72	/	<=7.9	Pass
		2462	/	/	-2.68	-3.00	/	<=7.9	Pass
802.11g	MIMO	2412	/	/	-5.81	-4.60	-2.75	<=7.9	Pass
		2437	/	/	-4.56	-5.22	-2.37	<=7.9	Pass
		2462	/	/	-5.10	-4.57	-1.82	<=7.9	Pass
802.11n (HT20)	MIMO	2412	/	/	-4.80	-4.53	-2.30	<=7.9	Pass
		2437	/	/	-5.17	-4.93	-2.87	<=7.9	Pass
		2462	/	/	-4.65	-4.52	-2.44	<=7.9	Pass
802.11ax (HEW20)	MIMO	2412	RU242	Left	-6.50	-6.20	-4.26	<=7.9	Pass
		2437	RU242	Left	-6.50	-5.93	-4.25	<=7.9	Pass
		2462	RU242	Left	-5.81	-5.97	-4.11	<=7.9	Pass
Note1: Antenna Gain: Ant1: 6.10dBi; Ant2: 6.10dBi; Note2: Ant1 and Ant2 are Completely uncorrelated, So the Directional Gain is 6.10dBi Note3: Limit=8-(6.10-6) =7.9									

4.1.2 Test Graph

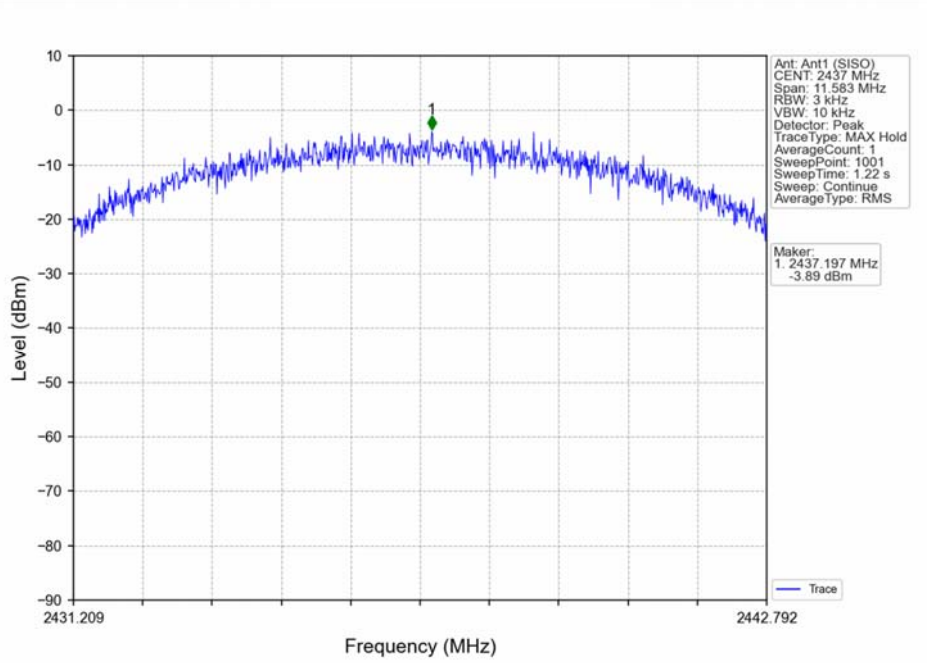
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



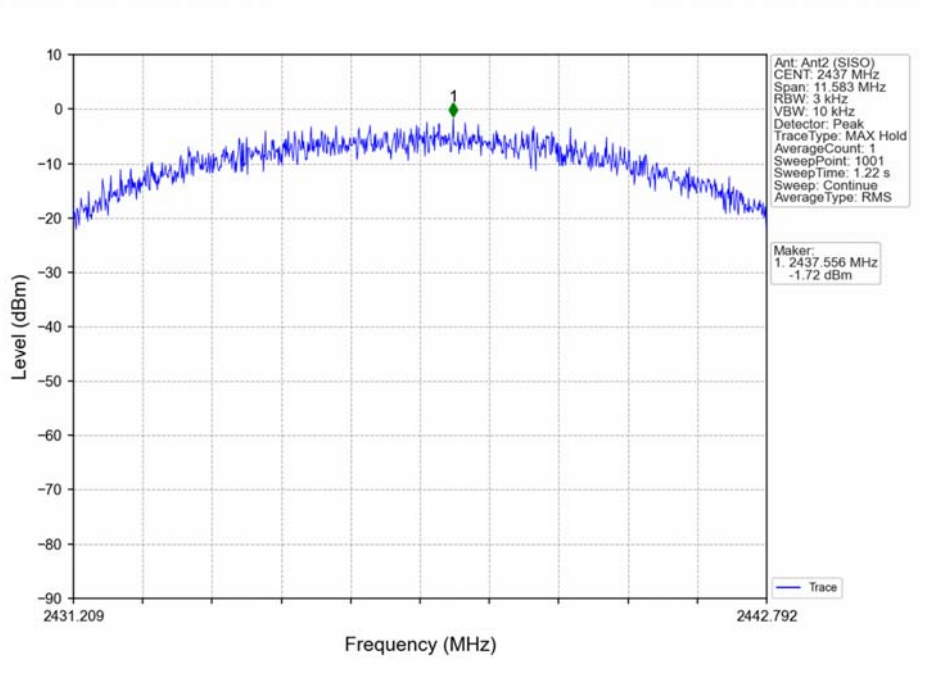
802.11b_LCH_2412MHz_Ant2 (SISO)_NTNV



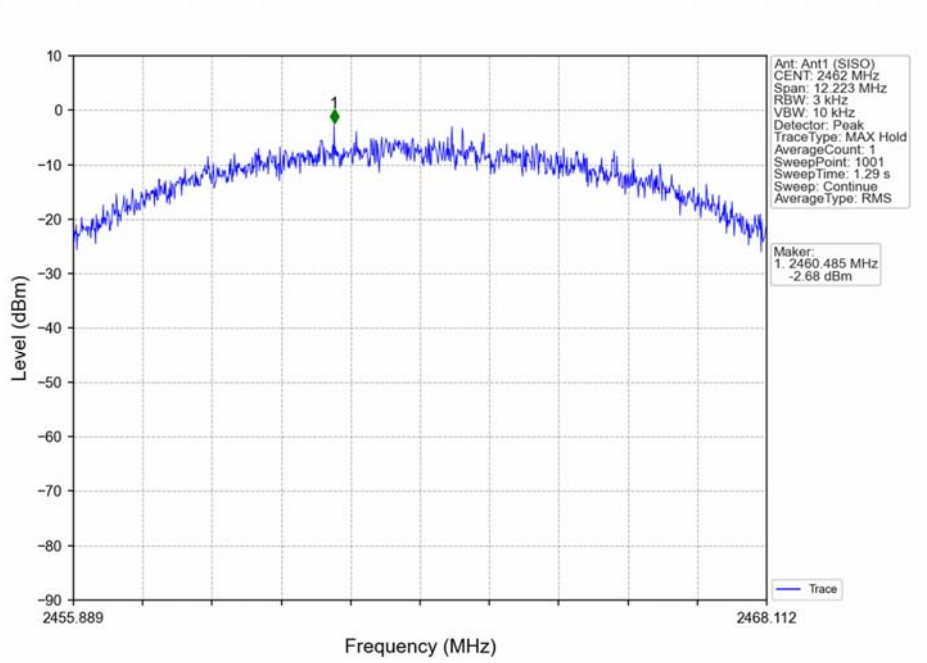
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



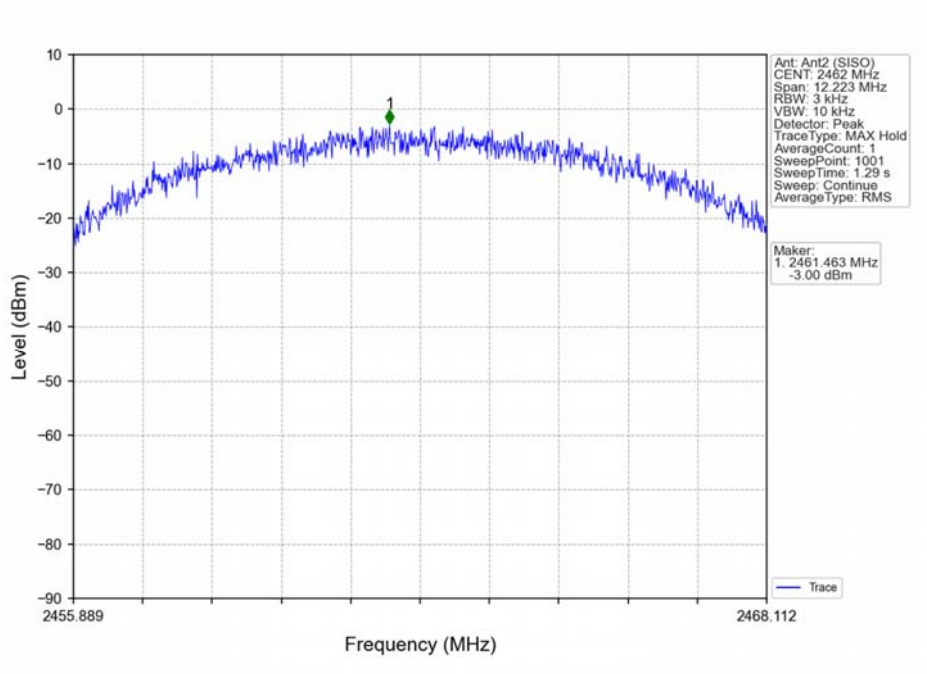
802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



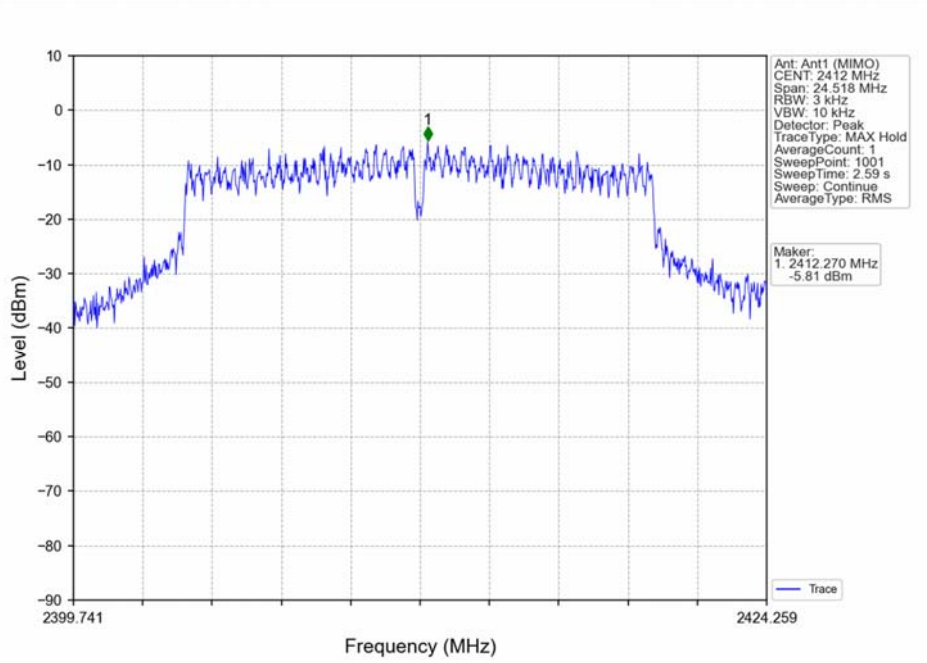
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



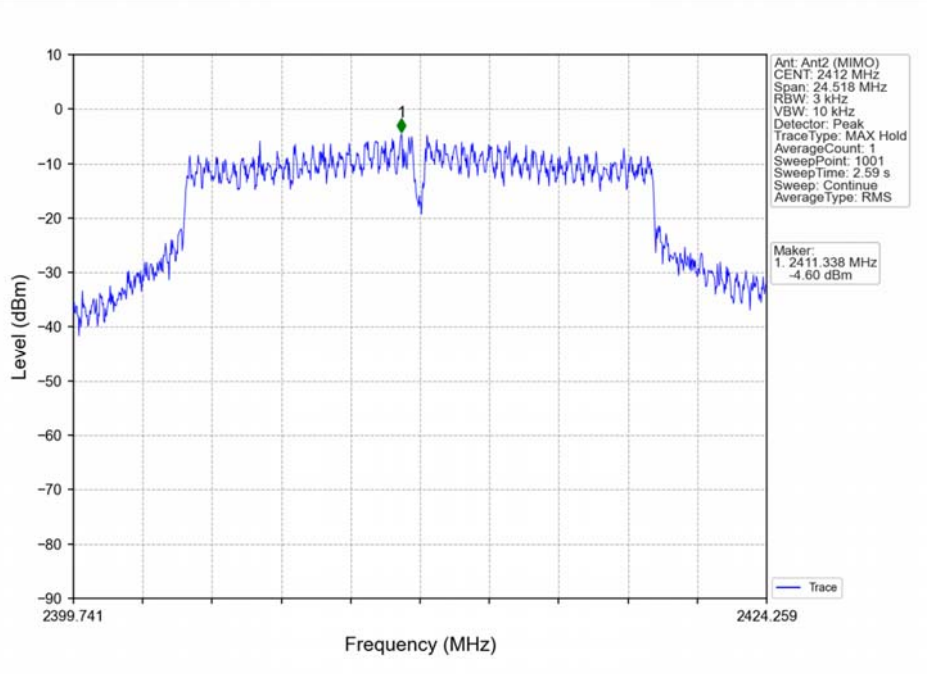
802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



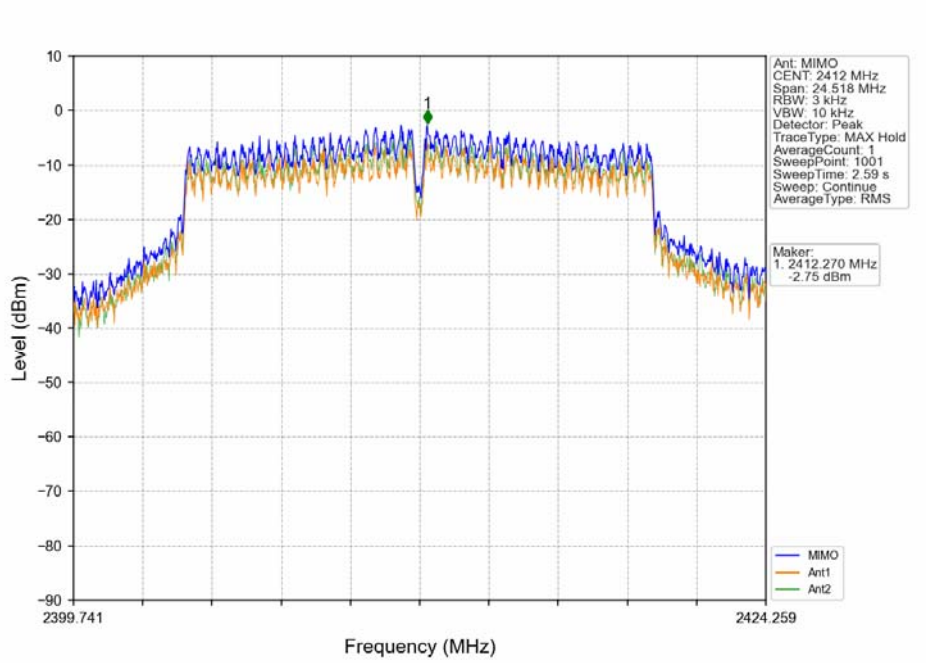
802.11g_LCH_2412MHz_Ant1 (MIMO)_NTNV



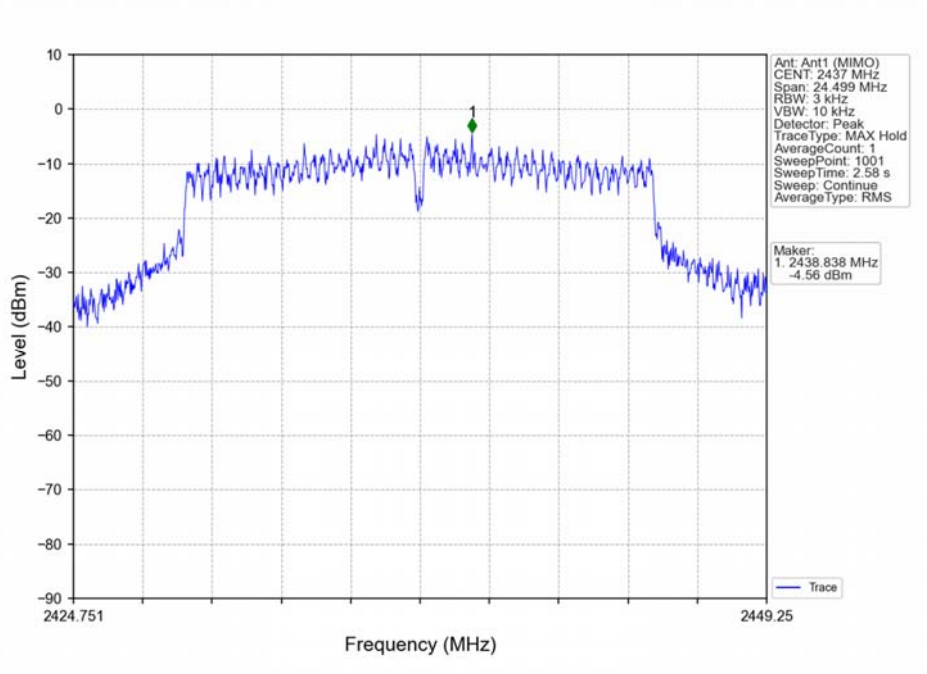
802.11g_LCH_2412MHz_Ant2 (MIMO)_NTNV



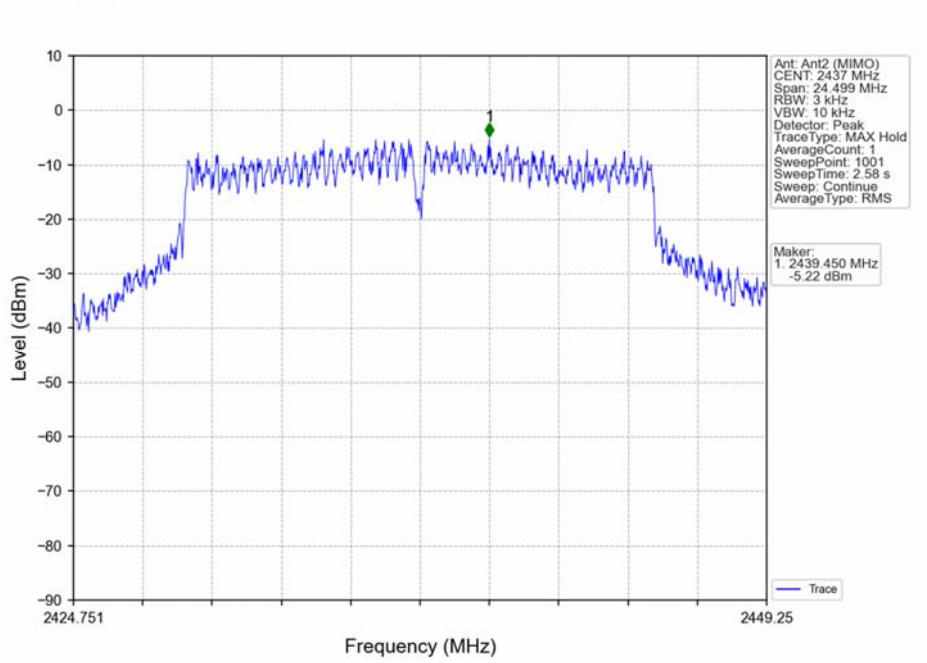
802.11g_LCH_2412MHz_MIMO_NTNV



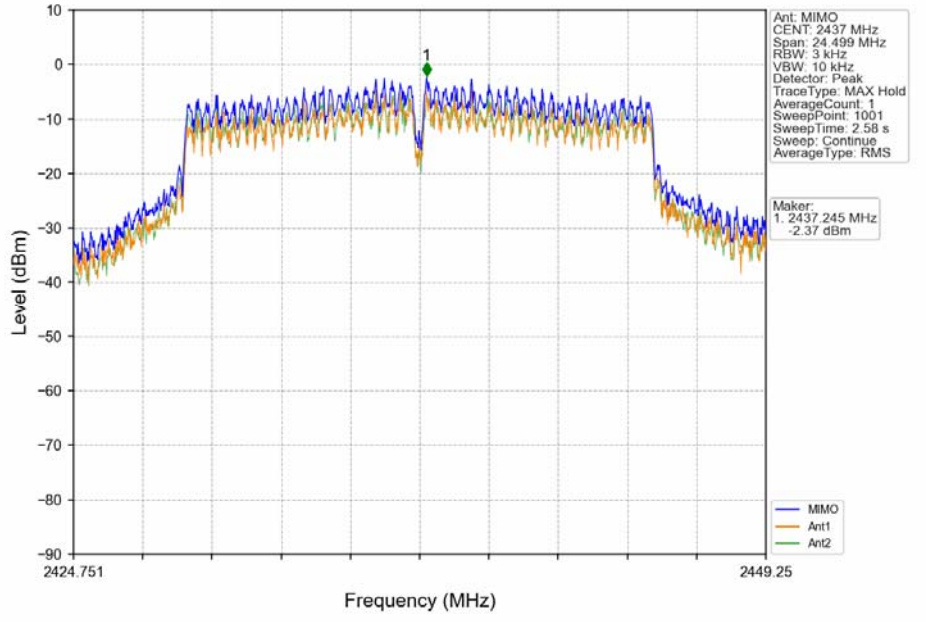
802.11g_MCH_2437MHz_Ant1 (MIMO)_NTNV



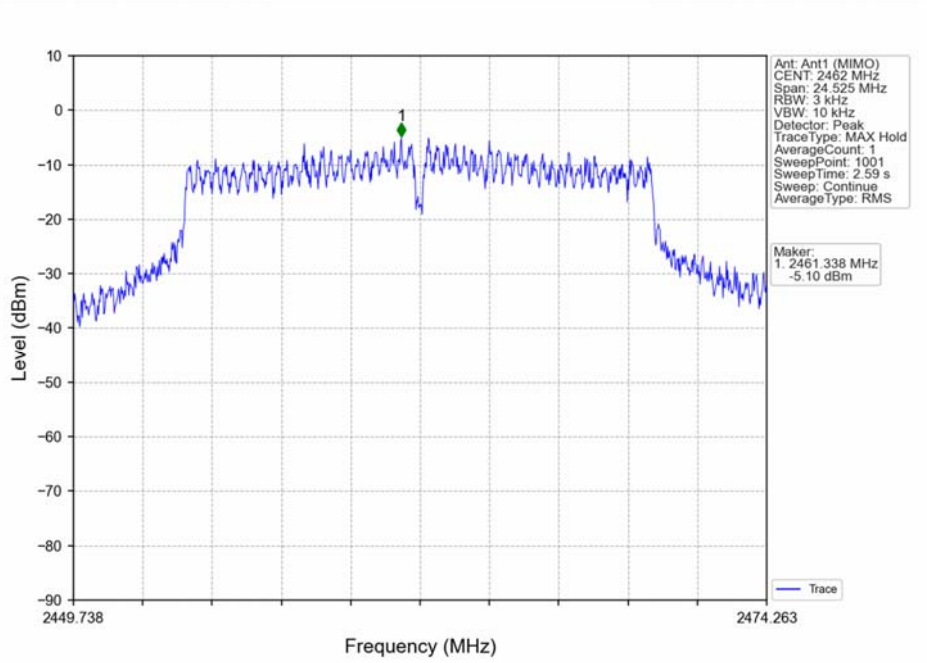
802.11g_MCH_2437MHz_Ant2 (MIMO)_NTNV



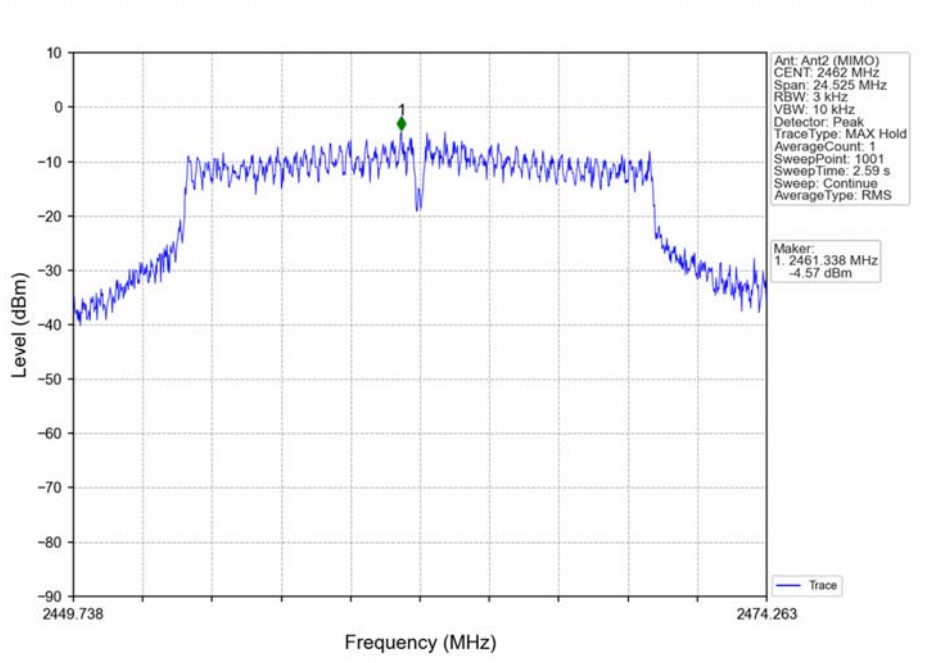
802.11g_MCH_2437MHz_MIMO_NTNV



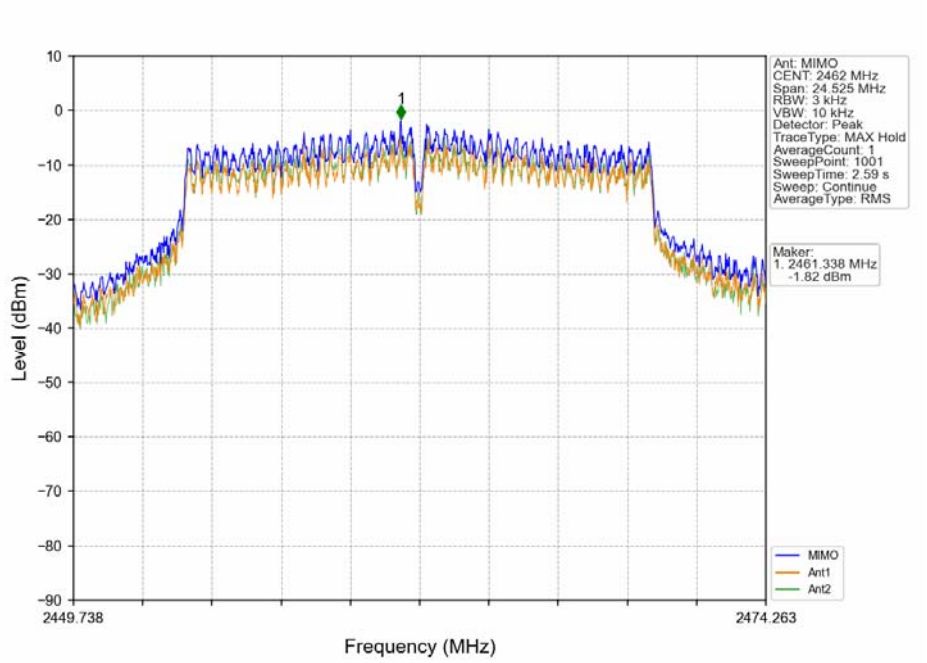
802.11g_HCH_2462MHz_Ant1 (MIMO)_NTNV



802.11g_HCH_2462MHz_Ant2 (MIMO)_NTNV



802.11g_HCH_2462MHz_MIMO_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV