1. Duty Cycle

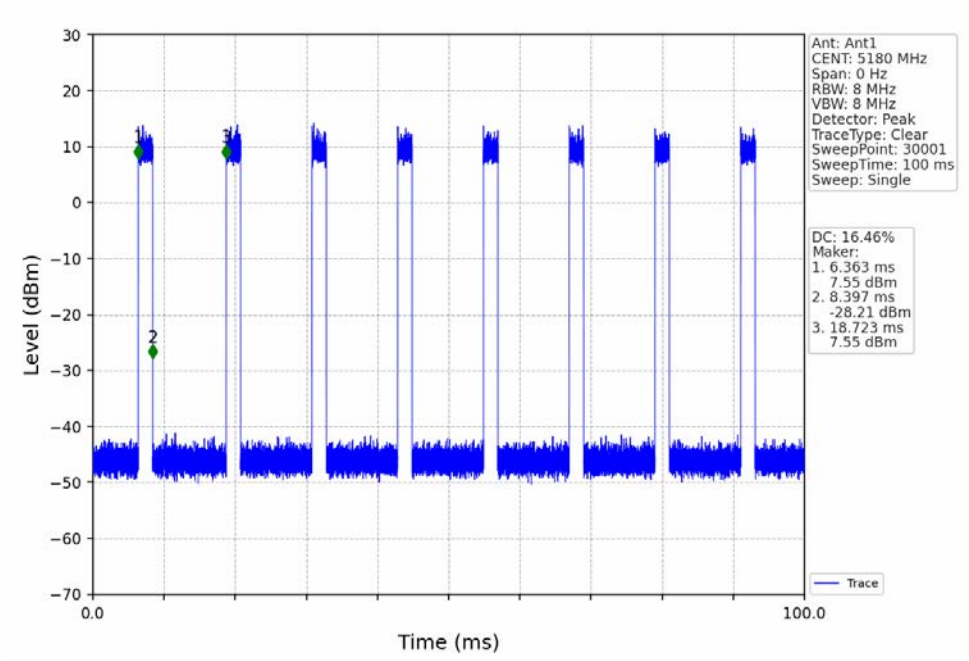
1.1 Ant1

1.1.1 Test Result

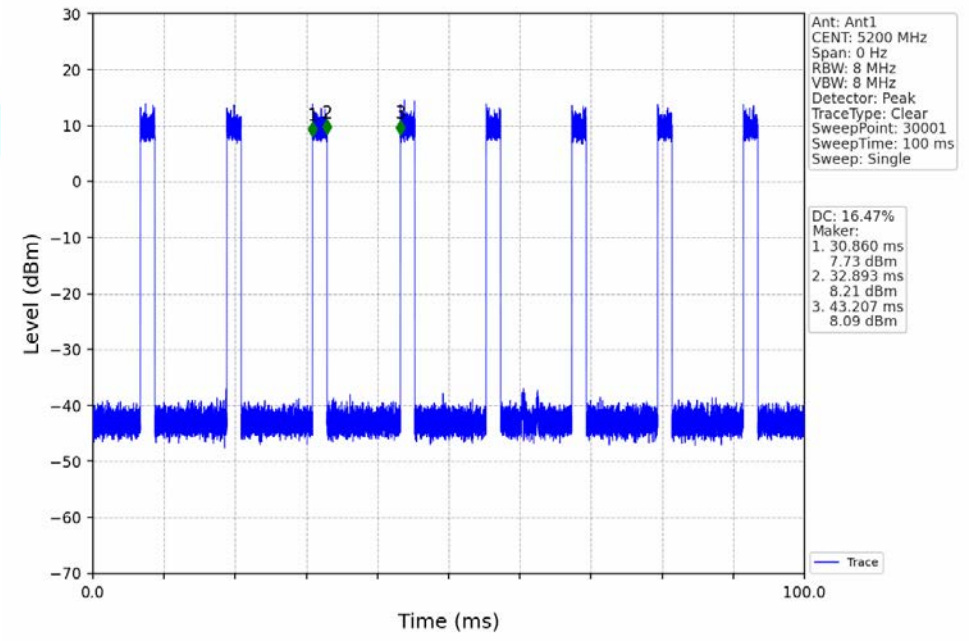
Ant1									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	/	/	2.034	12.360	16.46	7.84	0.44
		5200	/	/	2.033	12.347	16.47	7.83	0.43
		5240	/	/	2.037	12.197	16.70	7.77	0.20
802.11n (HT20)	SISO	5180	/	/	1.893	11.917	15.88	7.99	0.01
		5200	/	/	1.894	12.470	15.19	8.18	0.72
		5240	/	/	1.893	11.913	15.89	7.99	0.03
802.11n (HT40)	SISO	5190	/	/	0.933	10.953	8.52	10.70	0.03
		5230	/	/	0.934	11.050	8.45	10.73	0.11
802.11ac (VHT20)	SISO	5180	/	/	1.903	11.993	15.87	7.99	0.10
		5200	/	/	1.900	11.917	15.94	7.97	0.03
		5240	/	/	1.900	11.920	15.94	7.98	0.03
802.11ac (VHT40)	SISO	5190	/	/	0.936	11.243	8.33	10.80	0.25
		5230	/	/	0.937	10.957	8.55	10.68	0.03
802.11ax (HEW20)	SISO	5180	RU242	Left	1.466	11.600	12.64	8.98	0.13
		5200	RU242	Left	1.463	14.237	10.28	9.88	2.47
		5240	RU242	Left	1.464	11.644	12.57	9.01	0.20
802.11ax (HEW40)	SISO	5190	RU484	Left	0.764	10.927	6.99	11.55	0.13
		5230	RU484	Left	0.763	10.787	7.07	11.50	0.04

1.1.2 Test Graph

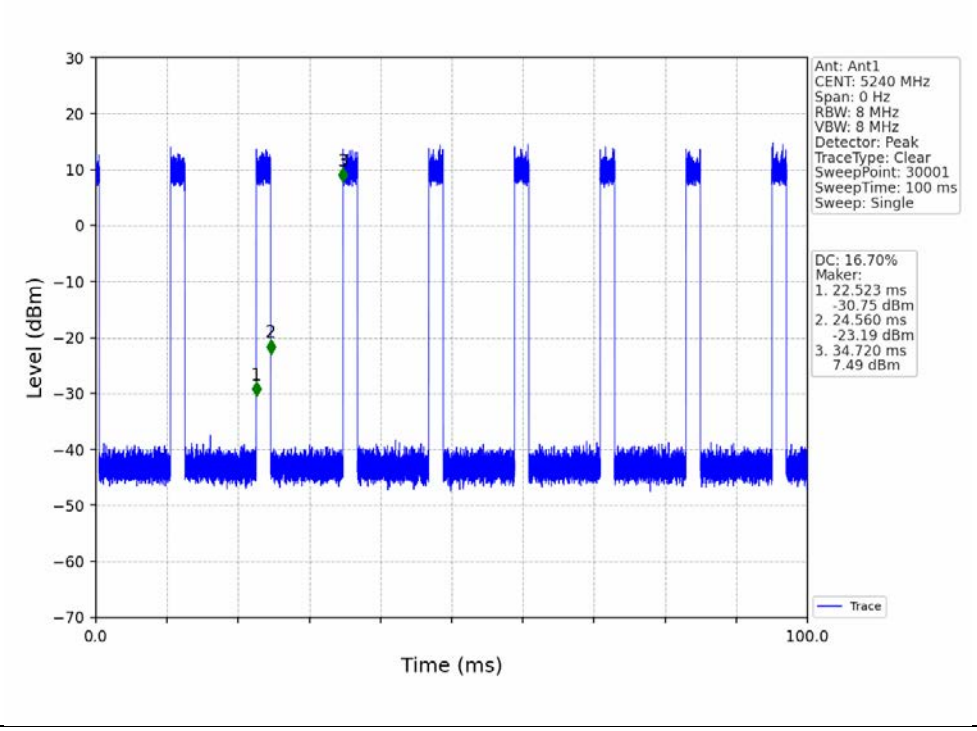
802.11a_LCH_5180MHz_Ant1_NTNV



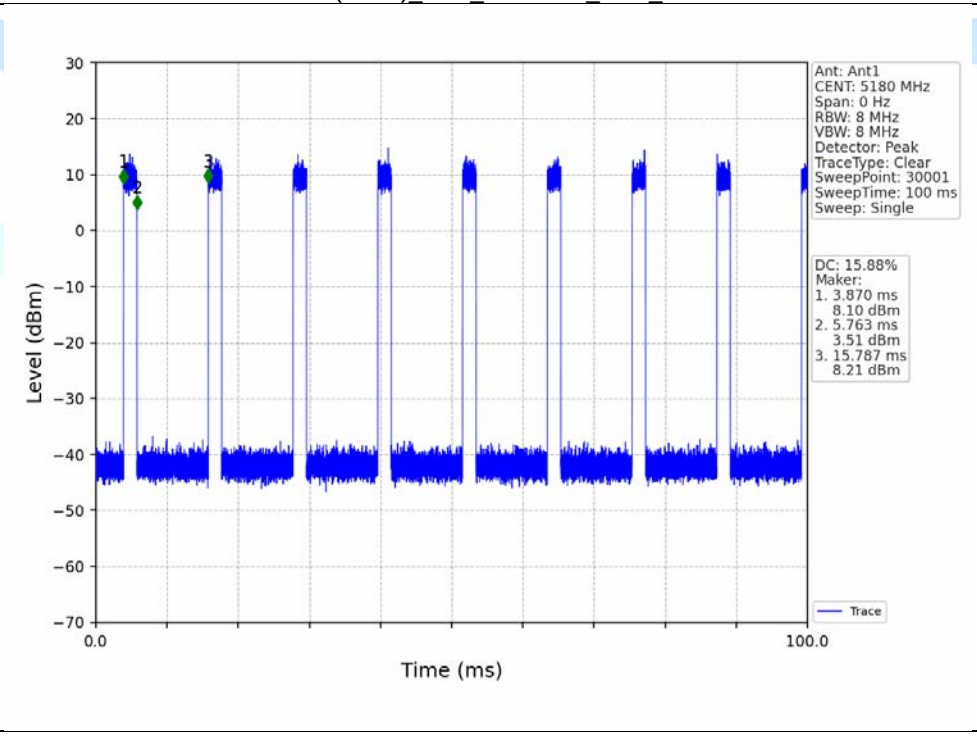
802.11a_MCH_5200MHz_Ant1_NTNV



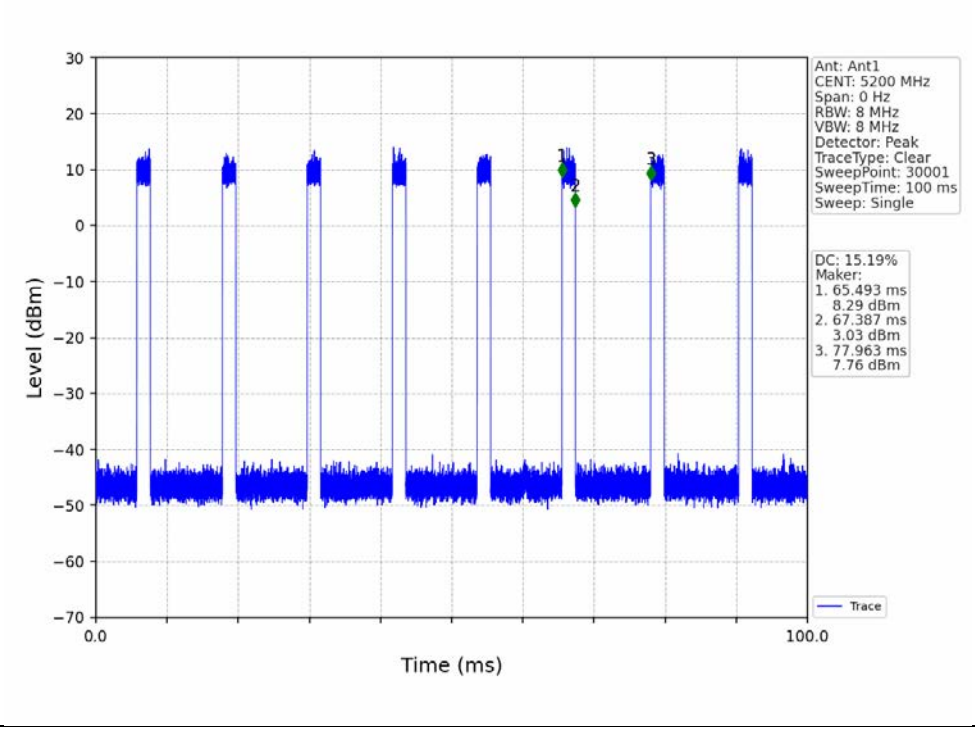
802.11a_HCH_5240MHz_Ant1_NTNV



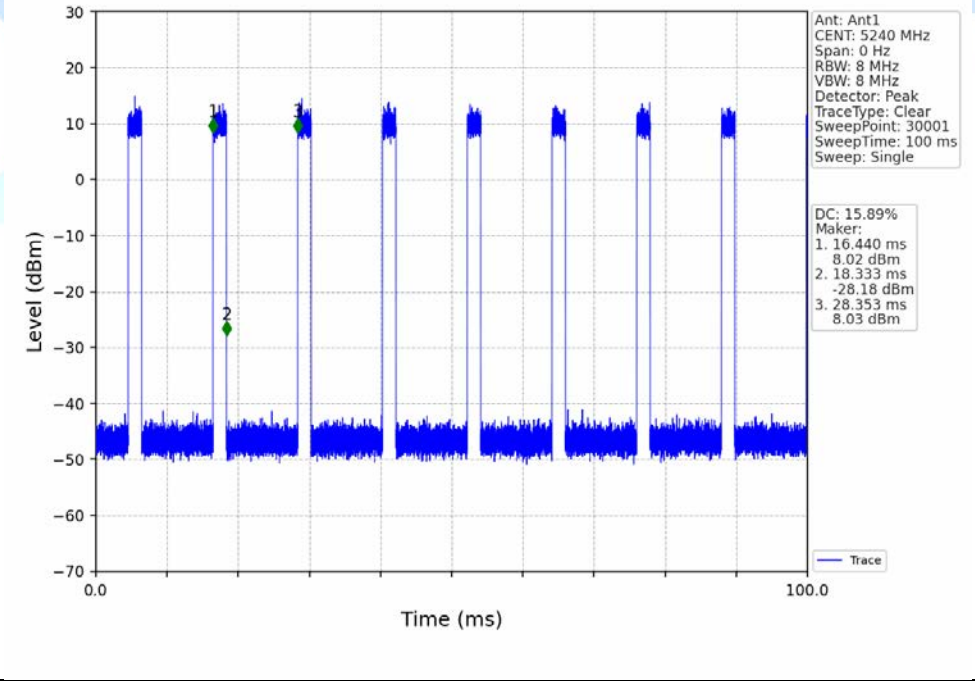
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



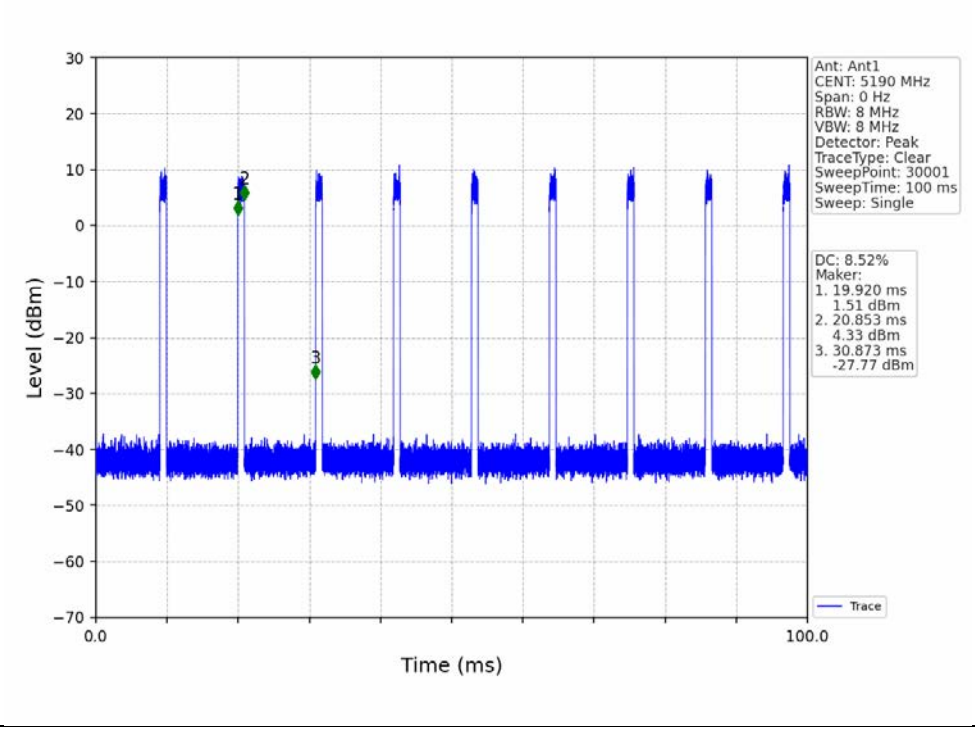
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



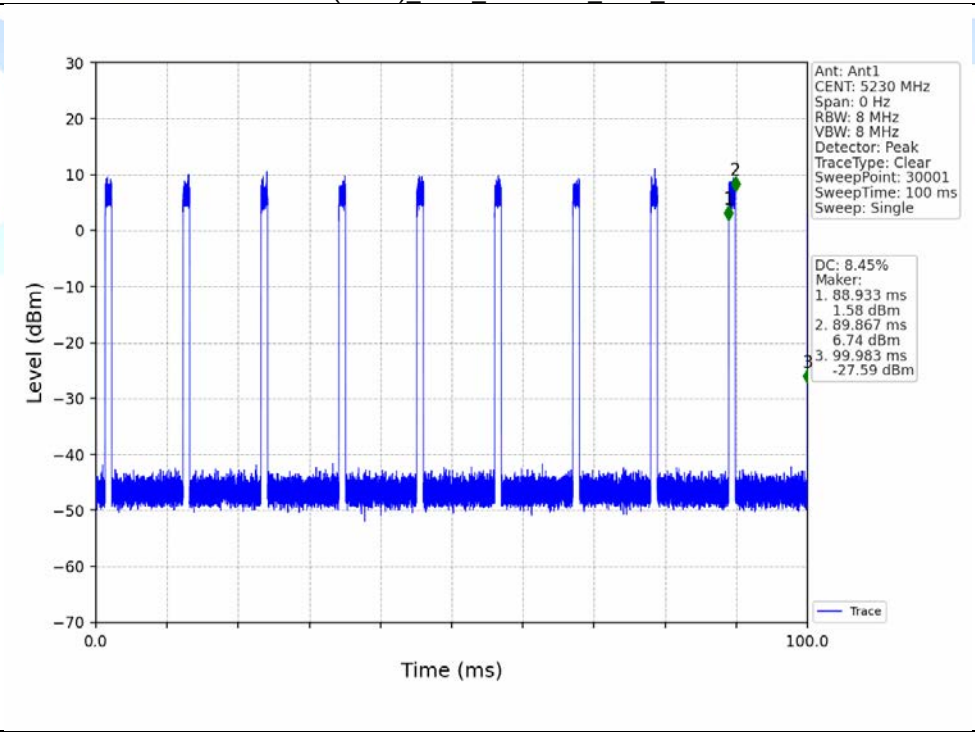
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



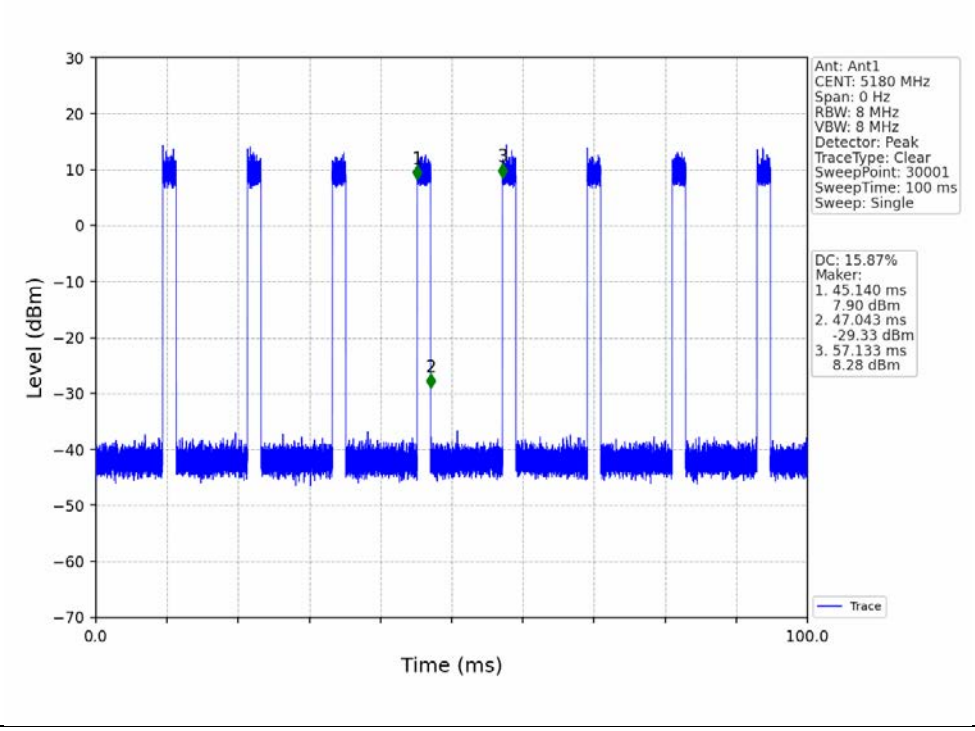
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



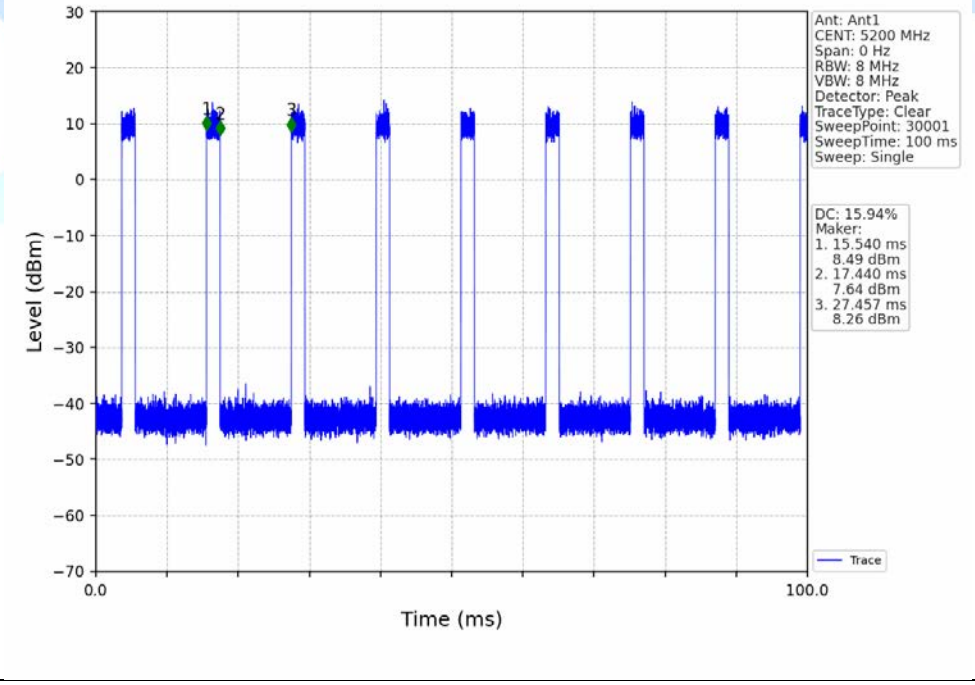
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



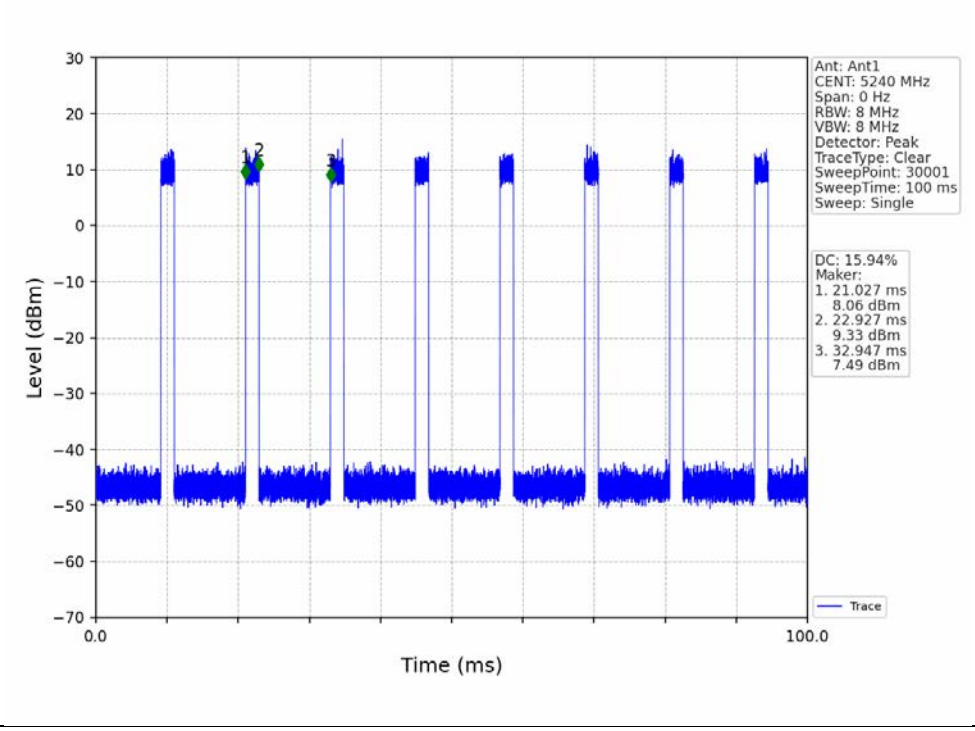
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



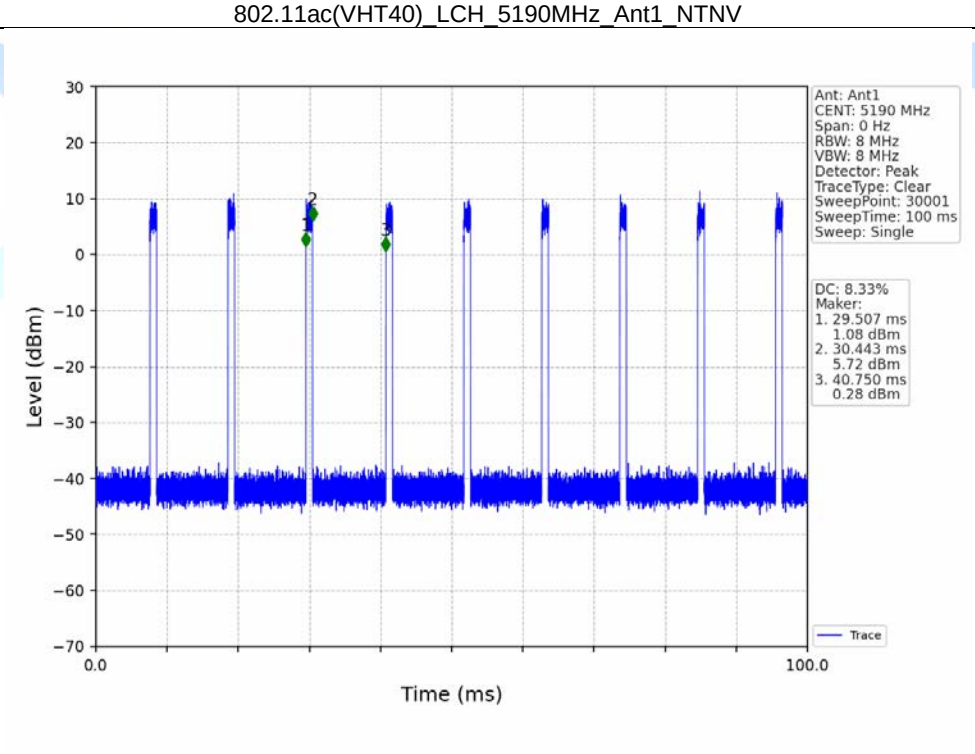
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



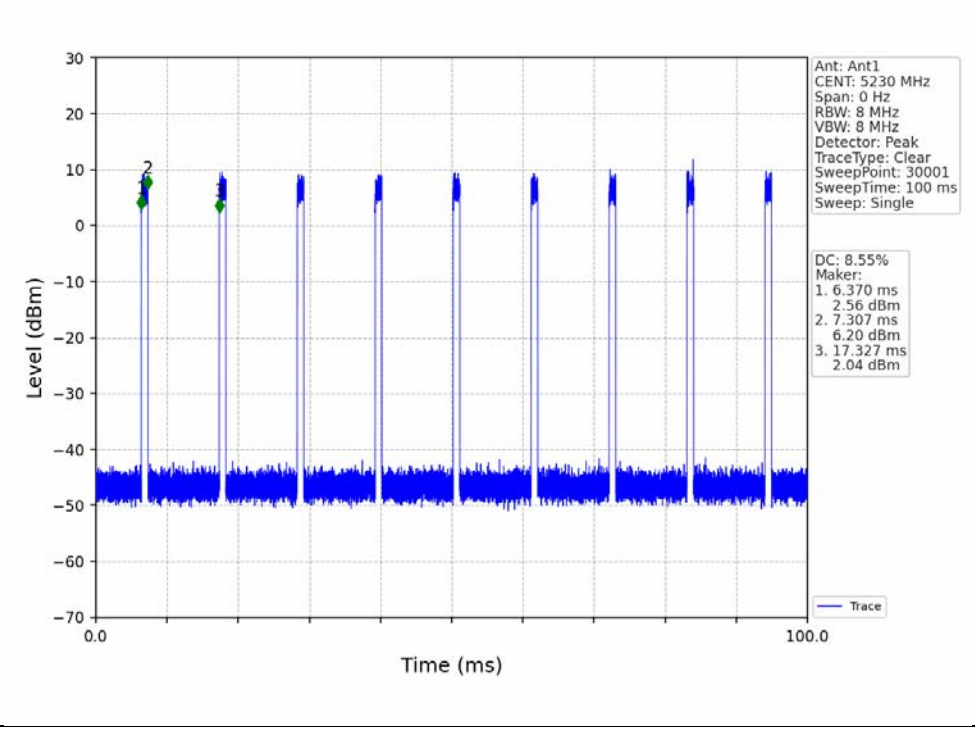
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



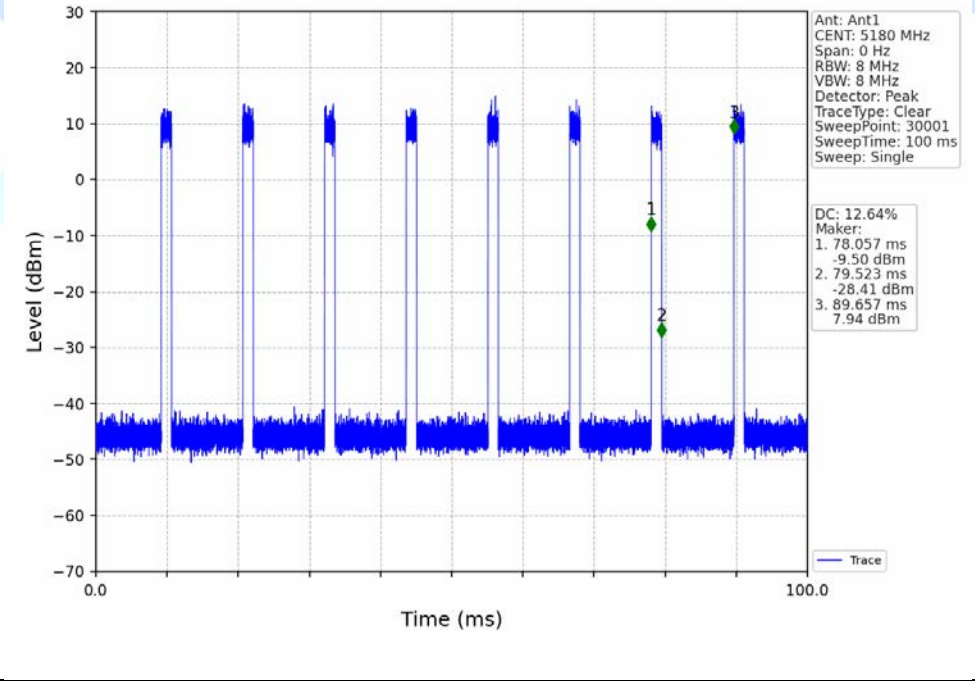
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



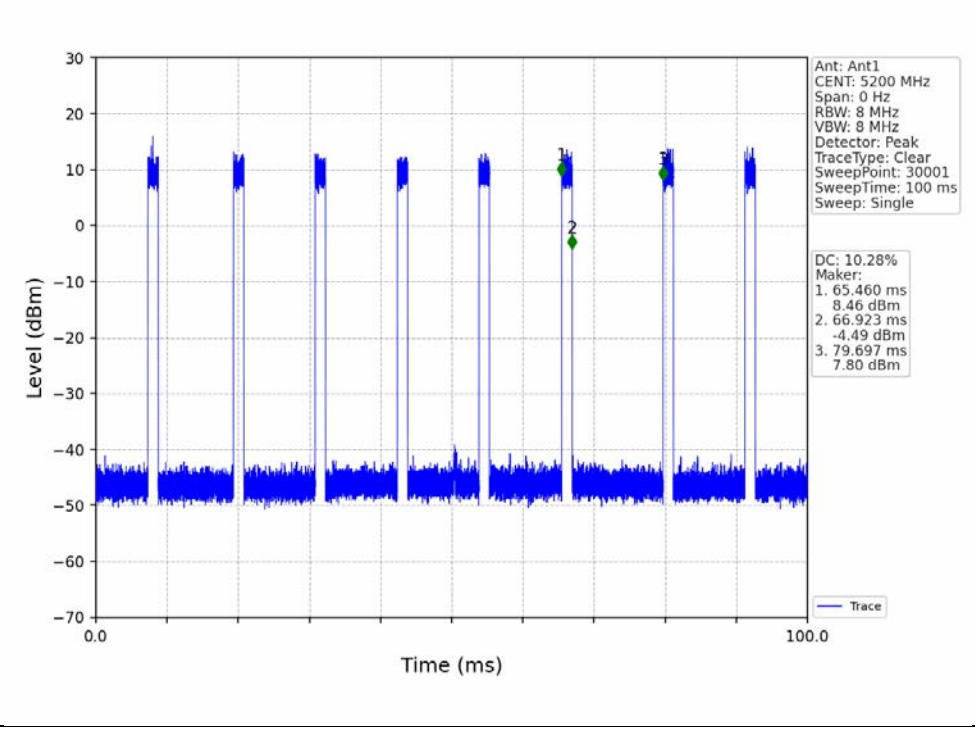
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



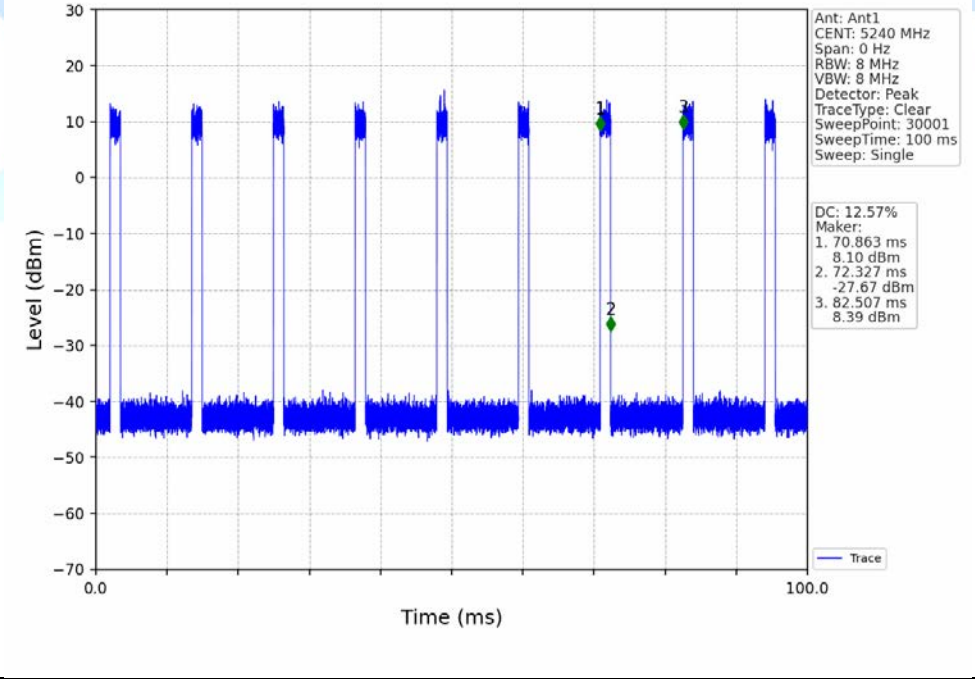
802.11ax(HEW20)_LCH_5180MHz_RU242_Left_Ant1_NTNV



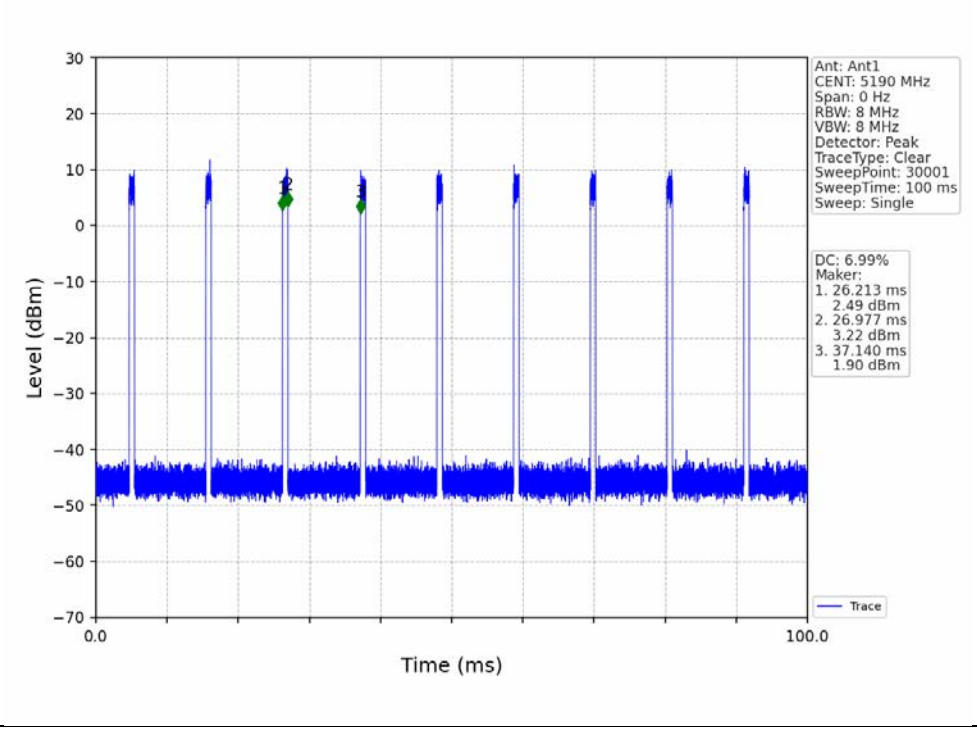
802.11ax(HEW20)_MCH_5200MHz_RU242_Left_Ant1_NTNV



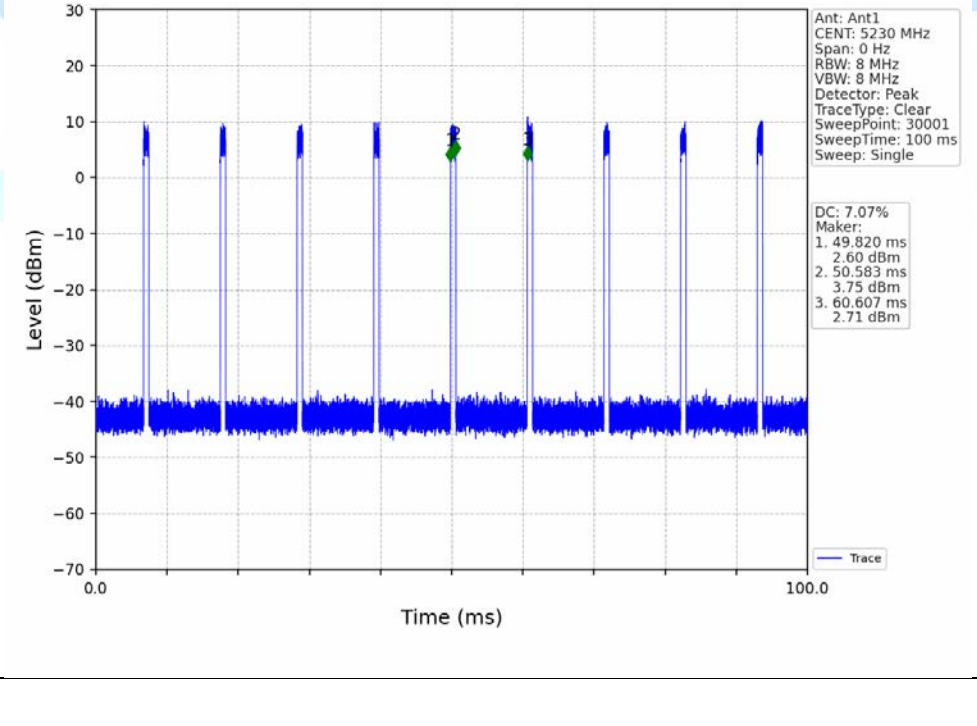
802.11ax(HEW20)_HCH_5240MHz_RU242_Left_Ant1_NTNV



802.11ax(HEW40)_LCH_5190MHz_RU484_Left_Ant1_NTNV



802.11ax(HEW40)_HCH_5230MHz_RU484_Left_Ant1_NTNV



2. Bandwidth

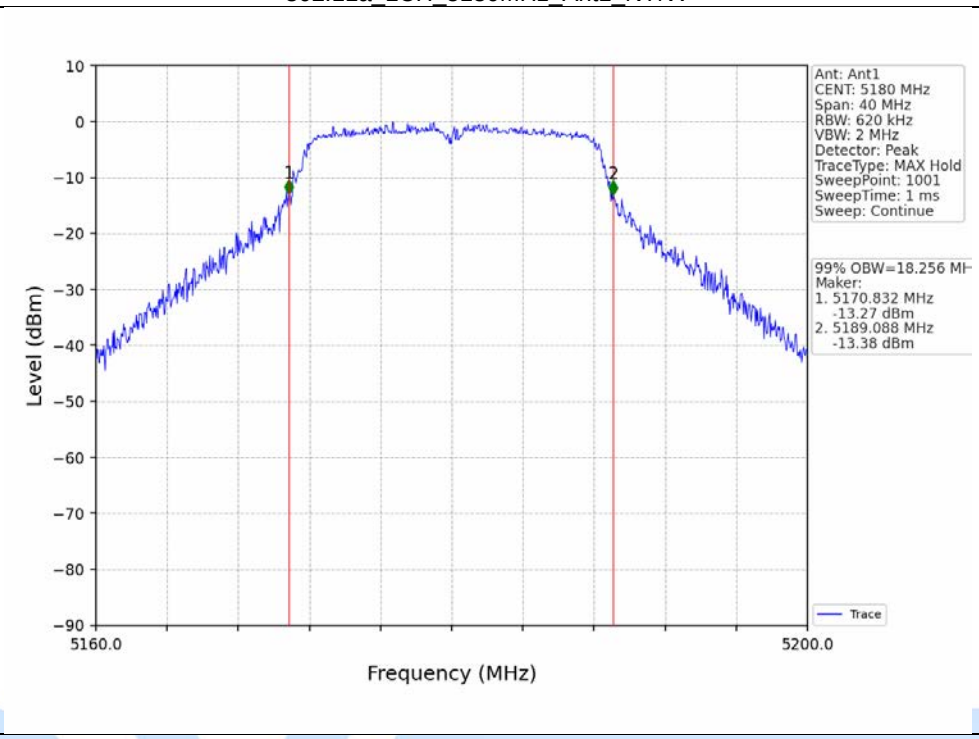
2.1 OBW

2.1.1 Test Result

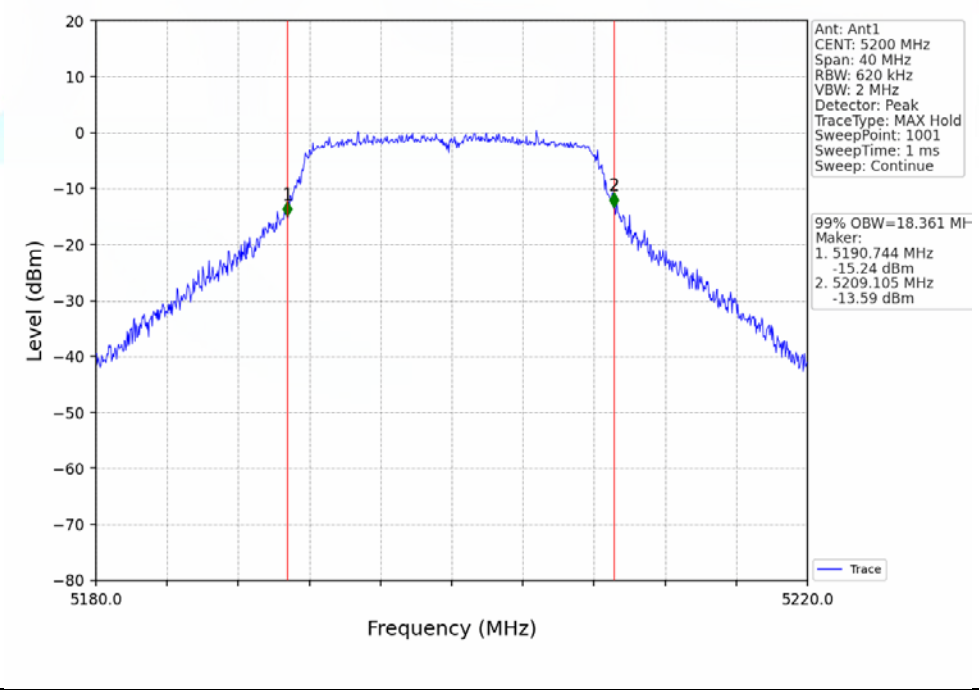
Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
						Result	Limit	
802.11a	SISO	5180	/	/	1	18.256	/	Pass
		5200	/	/	1	18.361	/	Pass
		5240	/	/	1	18.278	/	Pass
802.11n (HT20)	SISO	5180	/	/	1	19.468	/	Pass
		5200	/	/	1	19.313	/	Pass
		5240	/	/	1	19.497	/	Pass
802.11n (HT40)	SISO	5190	/	/	1	37.357	/	Pass
		5230	/	/	1	37.443	/	Pass
802.11ac (VHT20)	SISO	5180	/	/	1	19.418	/	Pass
		5200	/	/	1	19.187	/	Pass
		5240	/	/	1	19.117	/	Pass
802.11ac (VHT40)	SISO	5190	/	/	1	37.592	/	Pass
		5230	/	/	1	37.547	/	Pass
802.11ax (HEW20)	SISO	5180	RU242	Left	1	19.805	/	Pass
		5200	RU242	Left	1	19.705	/	Pass
		5240	RU242	Left	1	19.691	/	Pass
802.11ax (HEW40)	SISO	5190	RU484	Left	1	38.640	/	Pass
		5230	RU484	Left	1	38.604	/	Pass

2.1.2 Test Graph

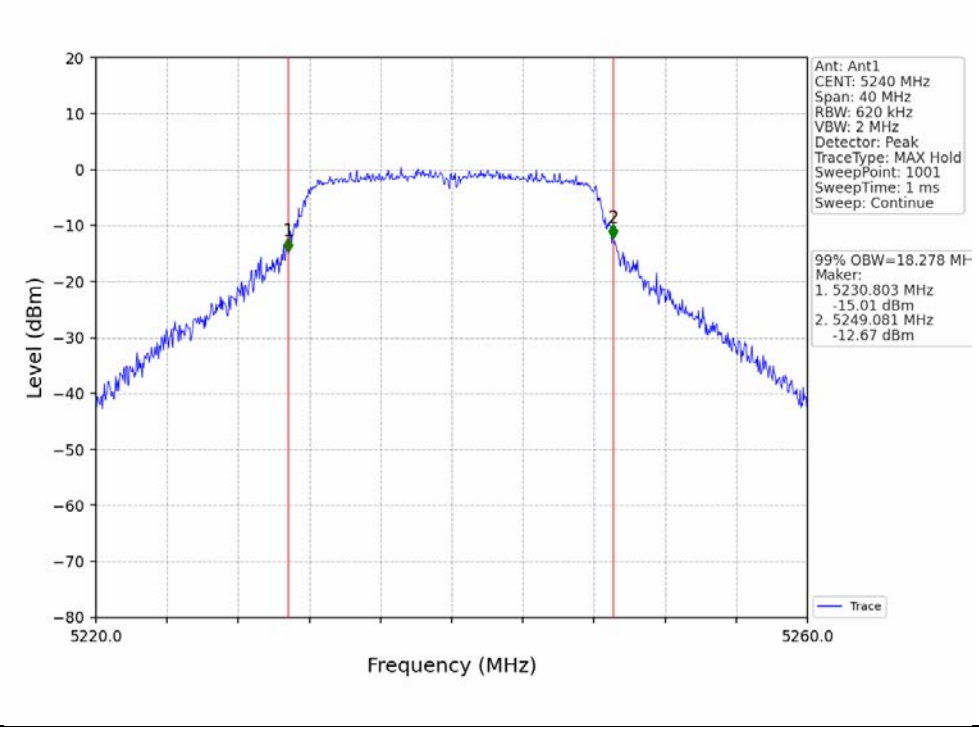
802.11a_LCH_5180MHz_Ant1_NTNV



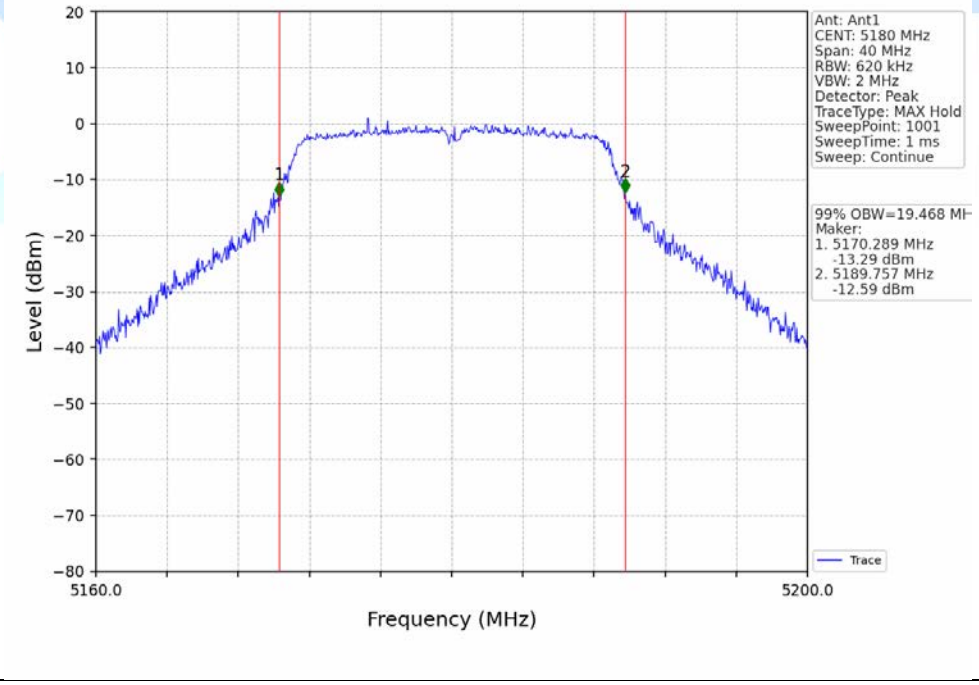
802.11a_MCH_5200MHz_Ant1_NTNV



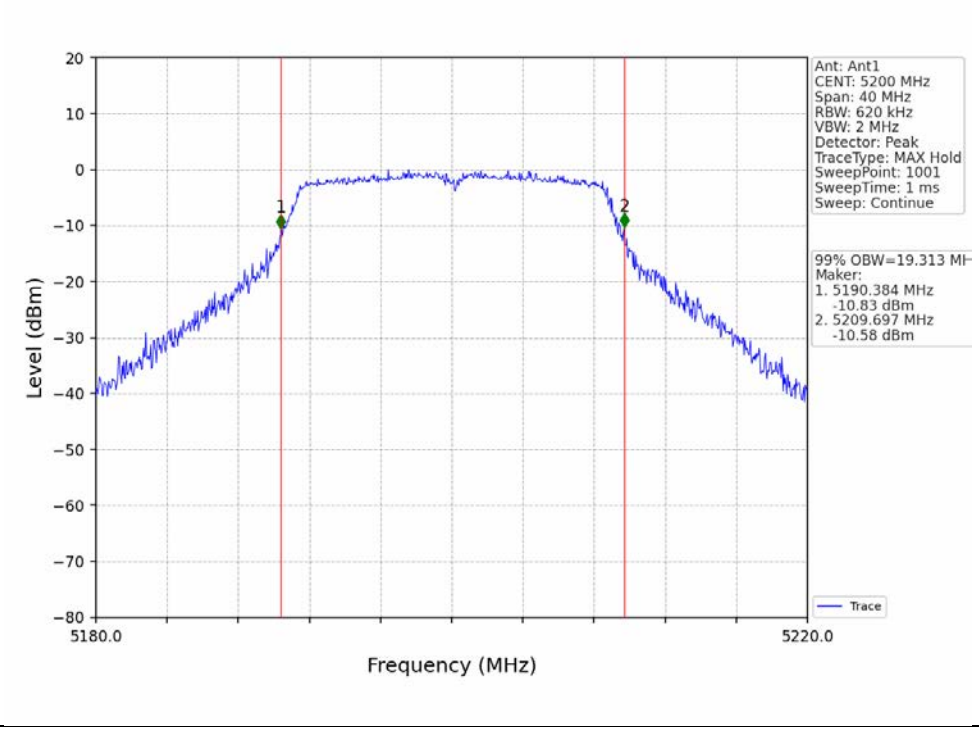
802.11a_HCH_5240MHz_Ant1_NTNV



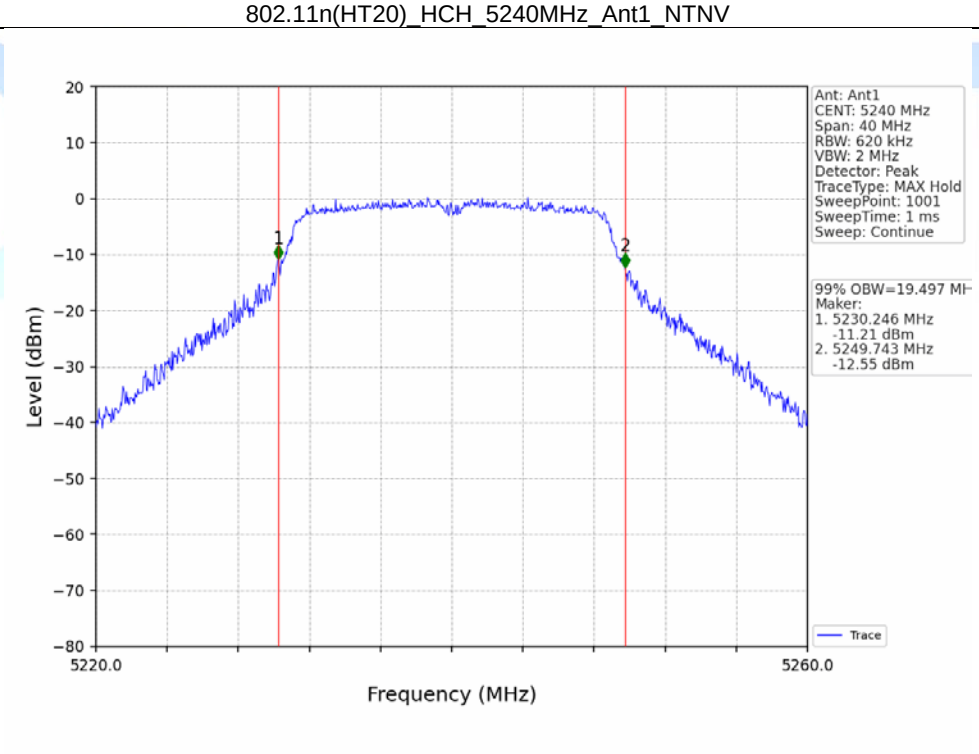
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



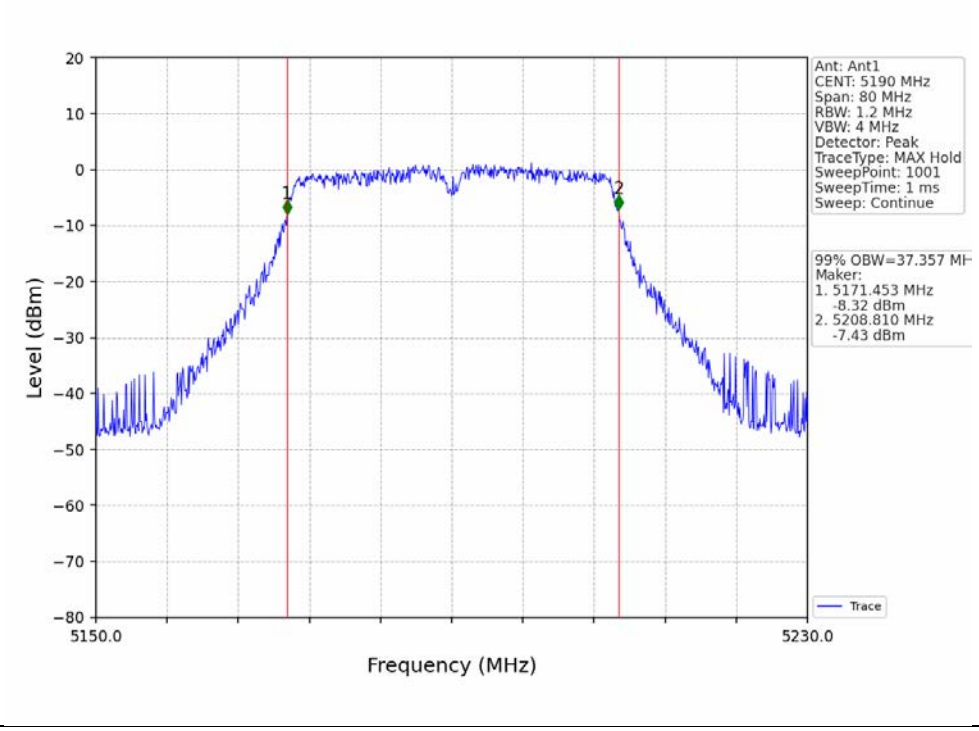
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



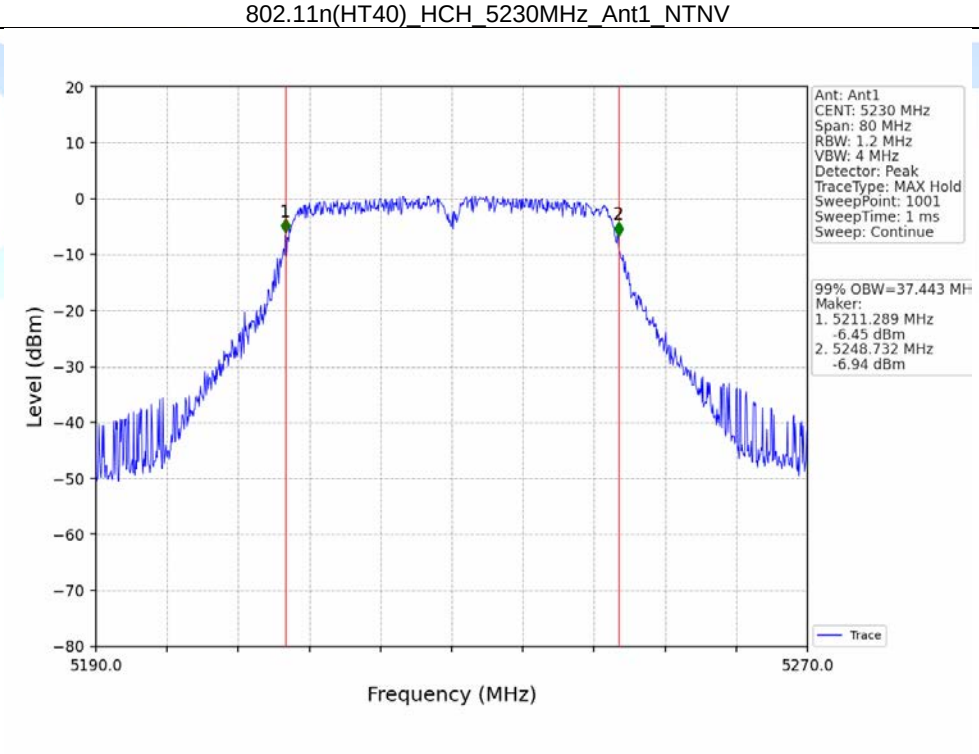
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



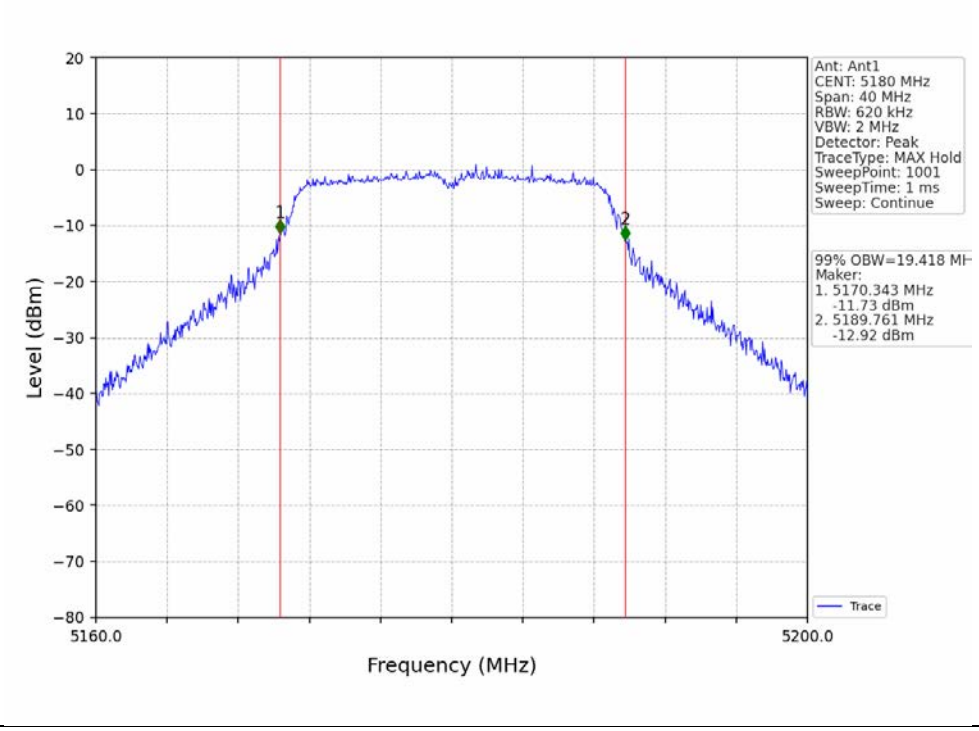
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



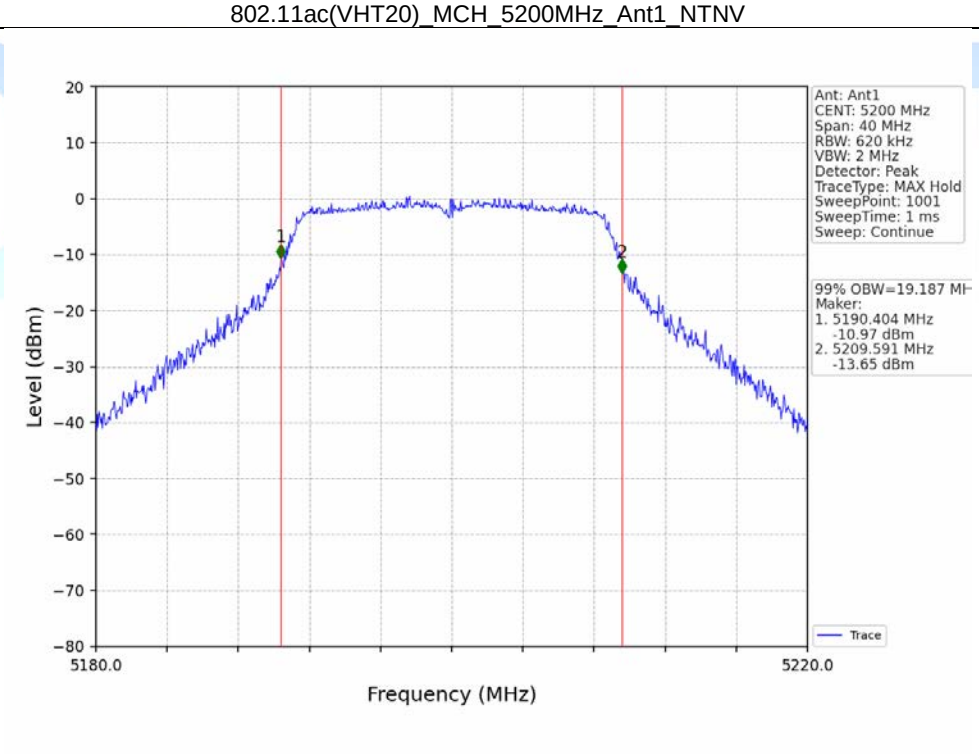
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



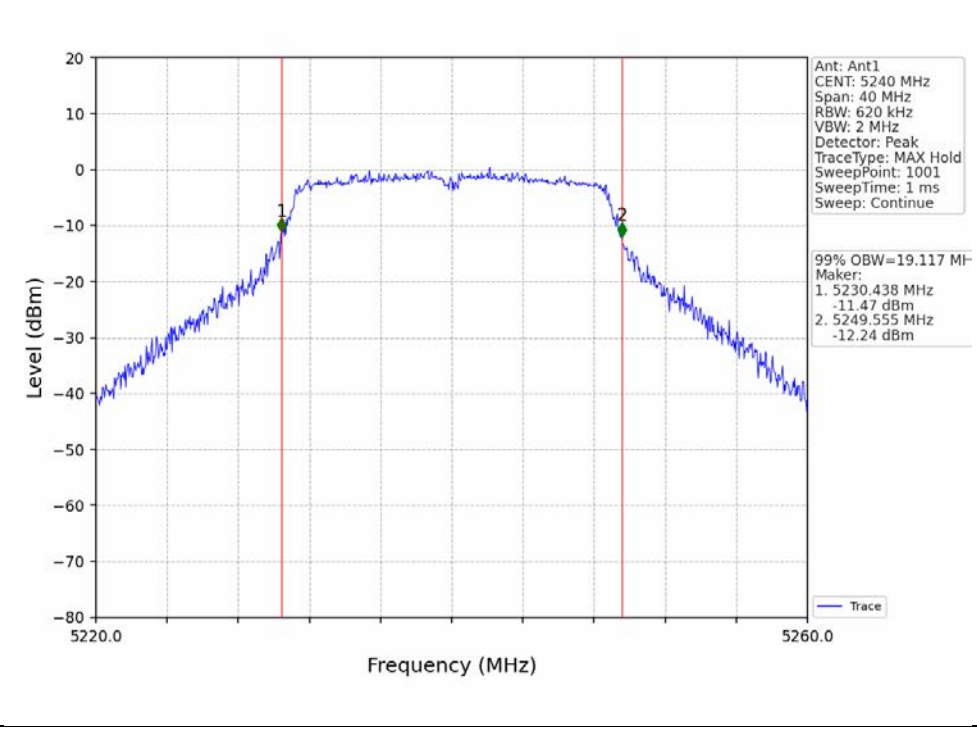
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



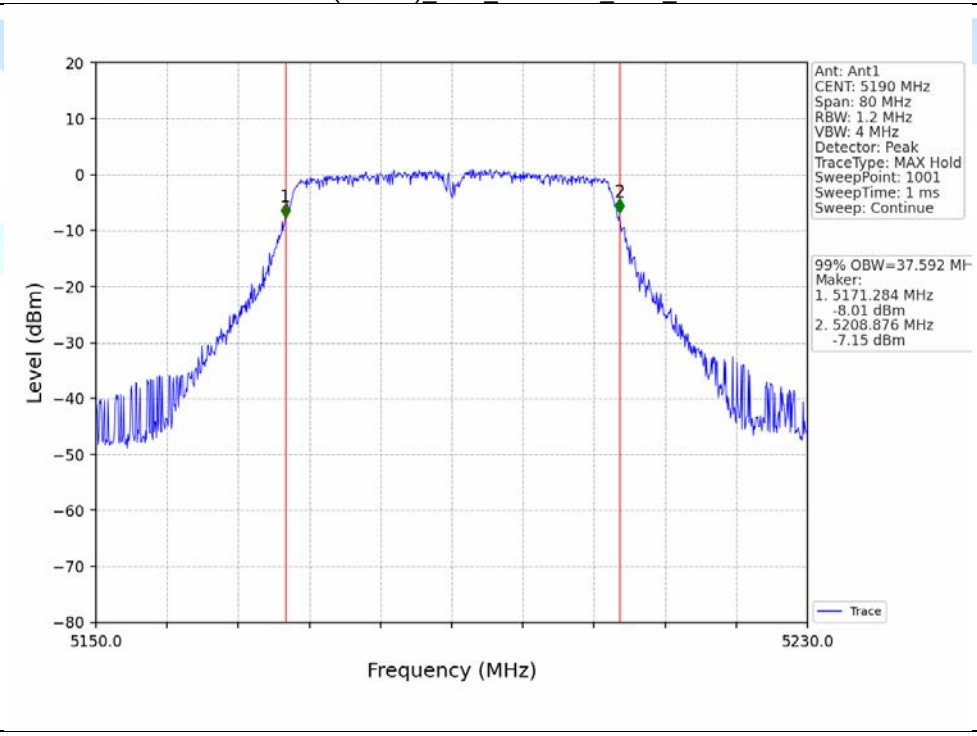
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



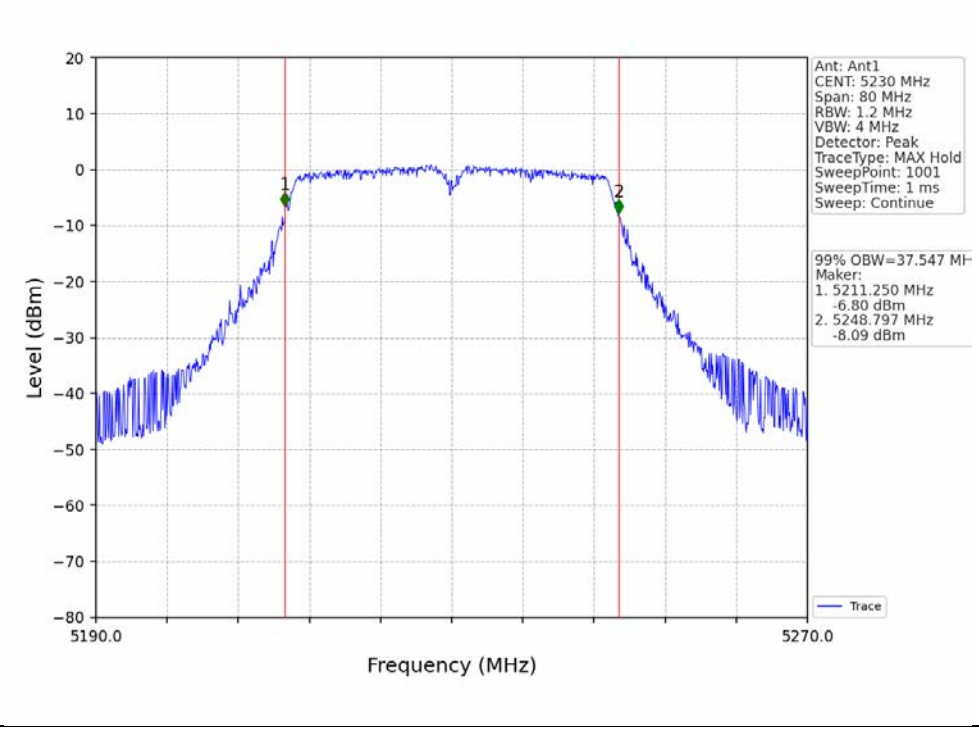
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



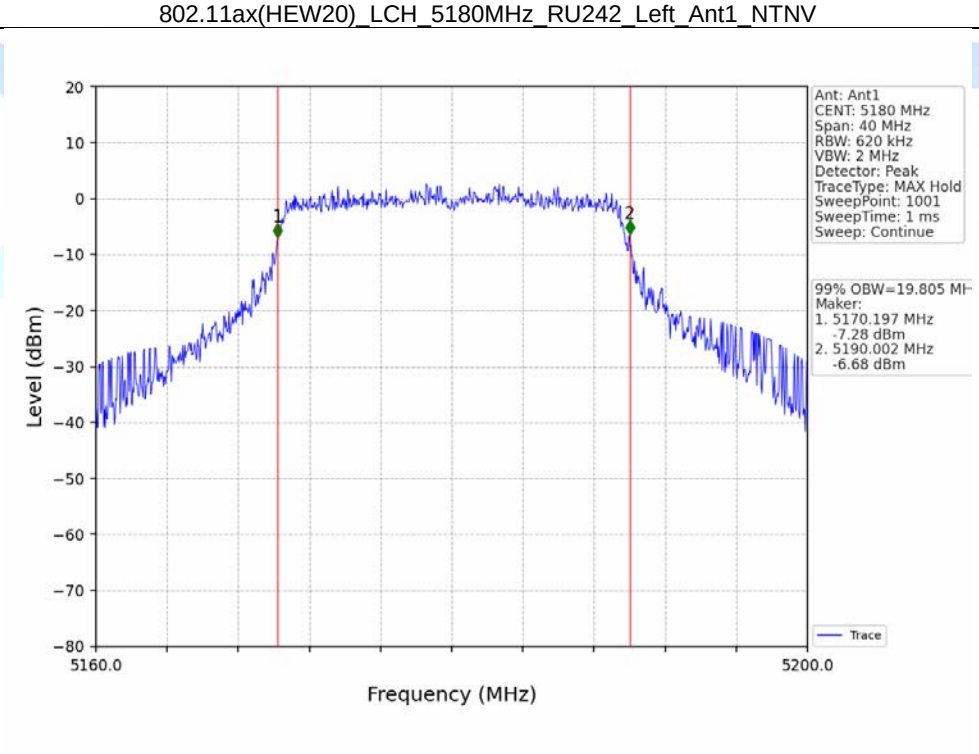
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



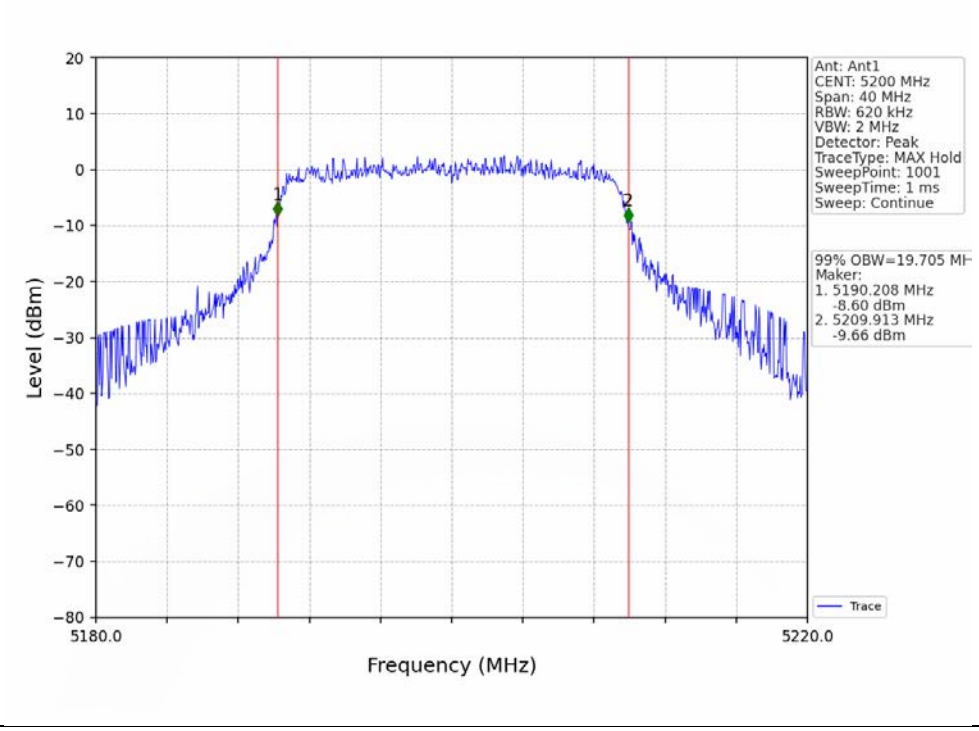
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



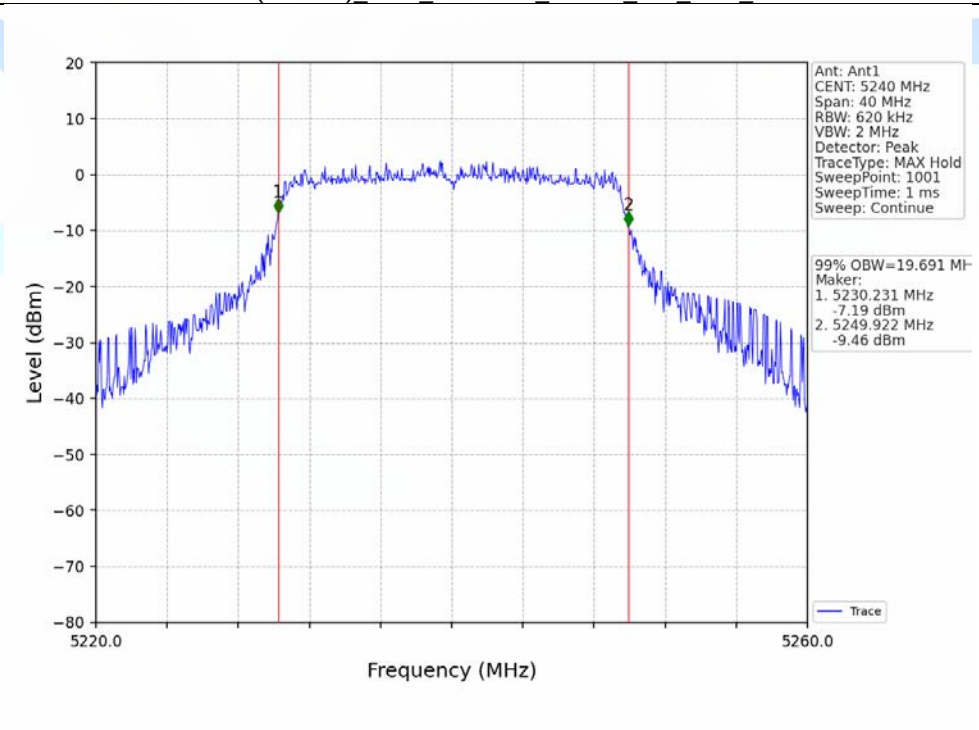
802.11ax(HEW20)_LCH_5180MHz_RU242_Left_Ant1_NTNV



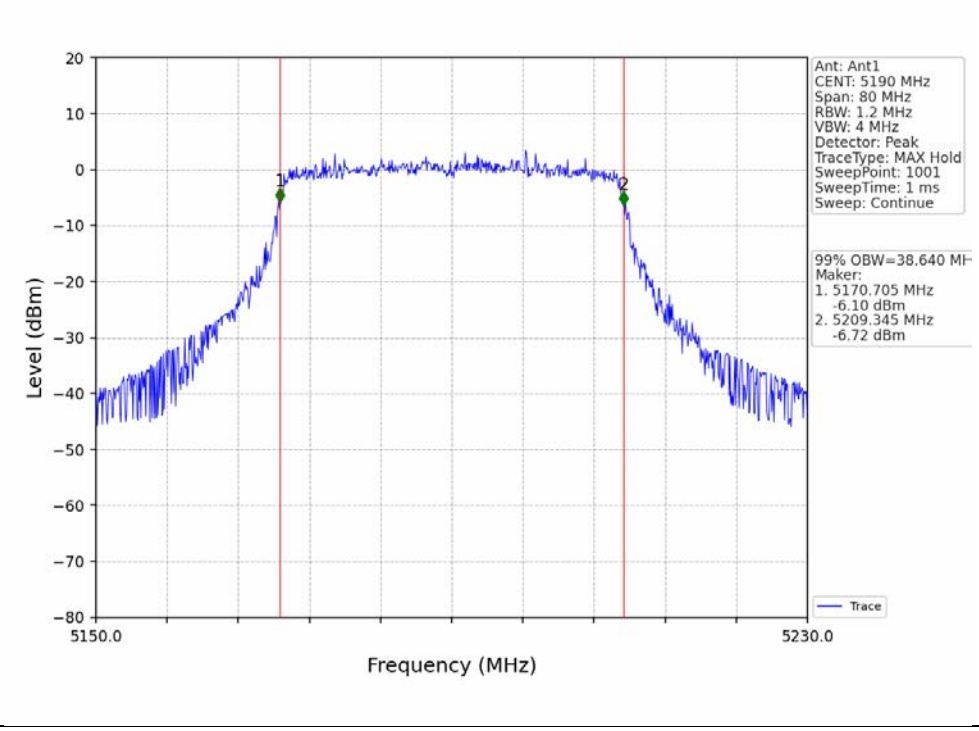
802.11ax(HEW20)_MCH_5200MHz_RU242_Left_Ant1_NTNV



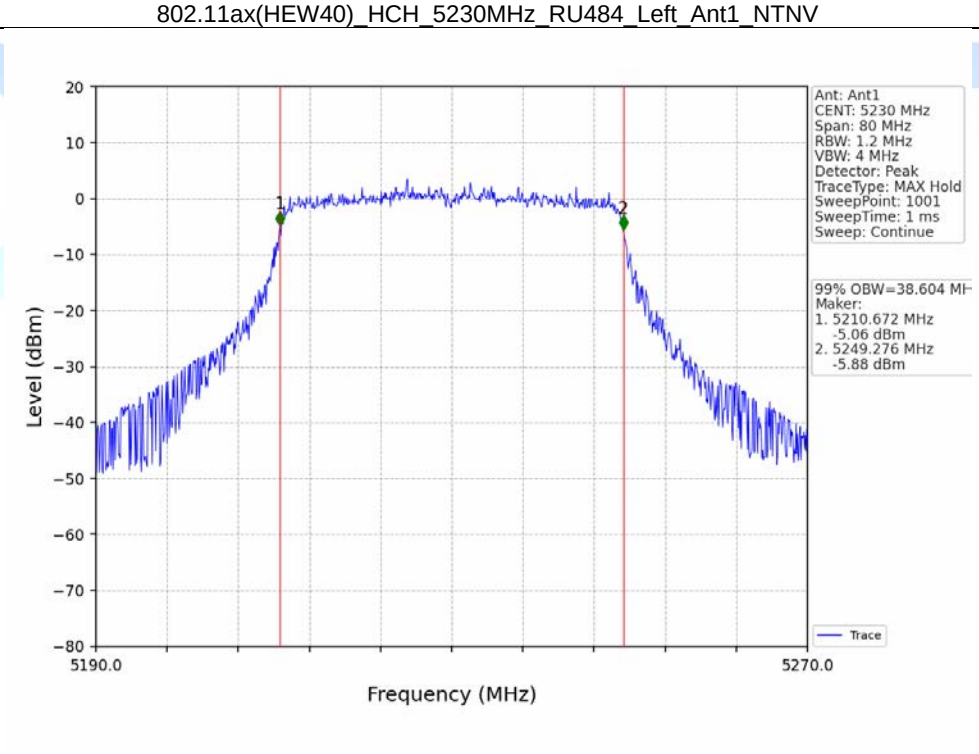
802.11ax(HEW20)_HCH_5240MHz_RU242_Left_Ant1_NTNV



802.11ax(HEW40)_LCH_5190MHz_RU484_Left_Ant1_NTNV



802.11ax(HEW40)_HCH_5230MHz_RU484_Left_Ant1_NTNV



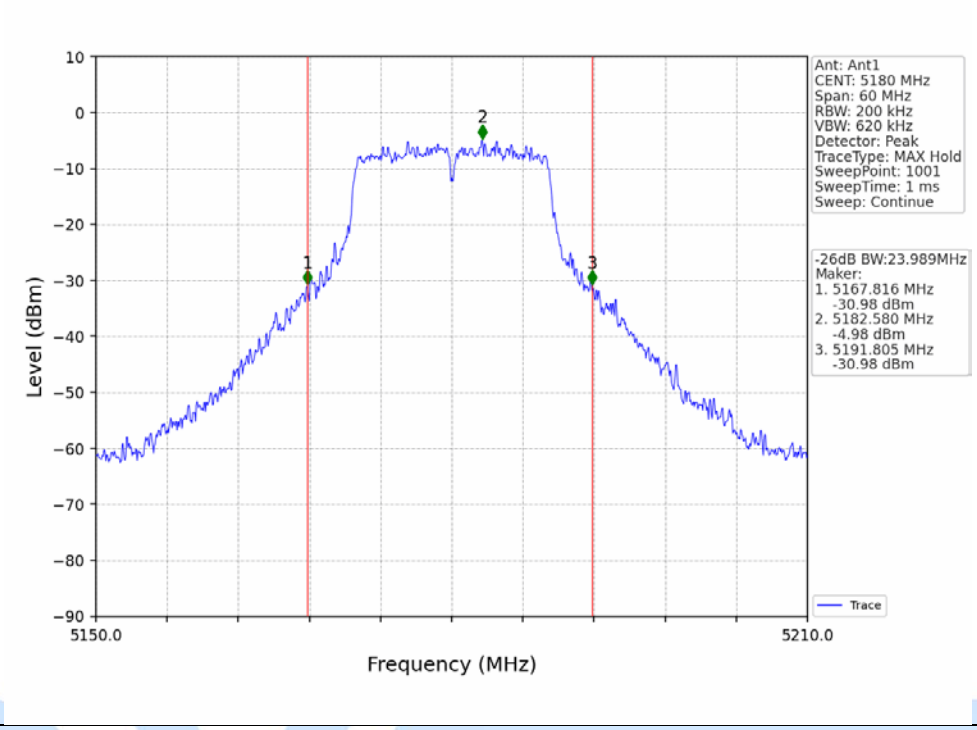
2.2 26dB BW

2.2.1 Test Result

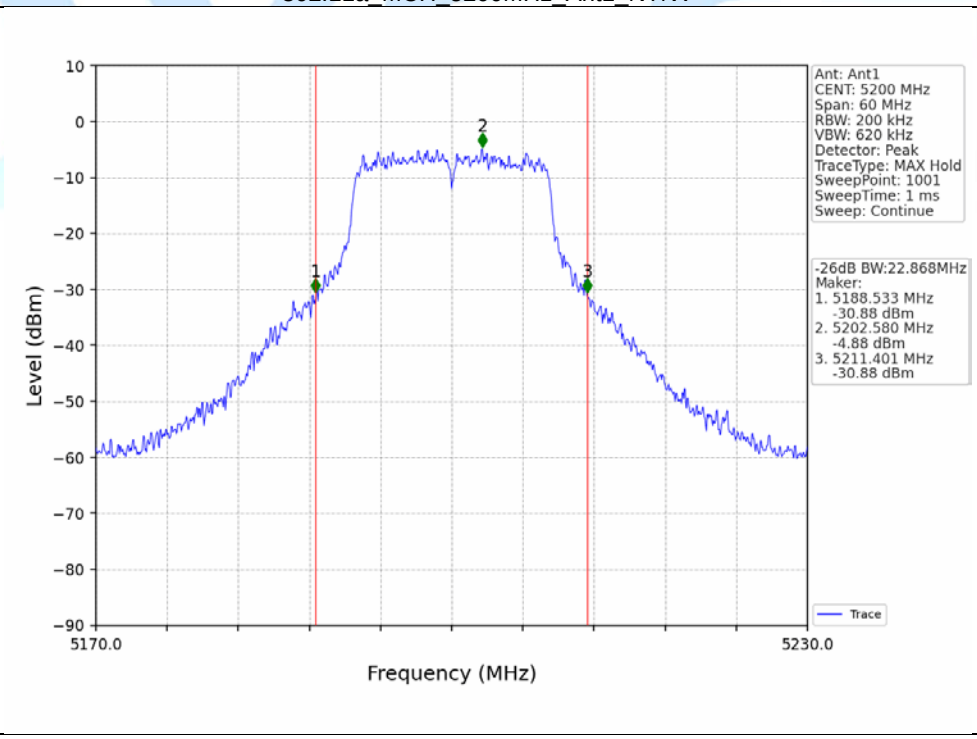
Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11a	SISO	5180	/	/	1	23.989	/	Pass
		5200	/	/	1	22.868	/	Pass
		5240	/	/	1	23.199	/	Pass
802.11n (HT20)	SISO	5180	/	/	1	24.052	/	Pass
		5200	/	/	1	24.265	/	Pass
		5240	/	/	1	24.160	/	Pass
802.11n (HT40)	SISO	5190	/	/	1	45.358	/	Pass
		5230	/	/	1	45.531	/	Pass
802.11ac (VHT20)	SISO	5180	/	/	1	24.507	/	Pass
		5200	/	/	1	24.339	/	Pass
		5240	/	/	1	23.626	/	Pass
802.11ac (VHT40)	SISO	5190	/	/	1	45.257	/	Pass
		5230	/	/	1	44.486	/	Pass
802.11ax (HEW20)	SISO	5180	RU242	Left	1	23.993	/	Pass
		5200	RU242	Left	1	24.281	/	Pass
		5240	RU242	Left	1	23.184	/	Pass
802.11ax (HEW40)	SISO	5190	RU484	Left	1	44.507	/	Pass
		5230	RU484	Left	1	43.812	/	Pass

2.2.2 Test Graph

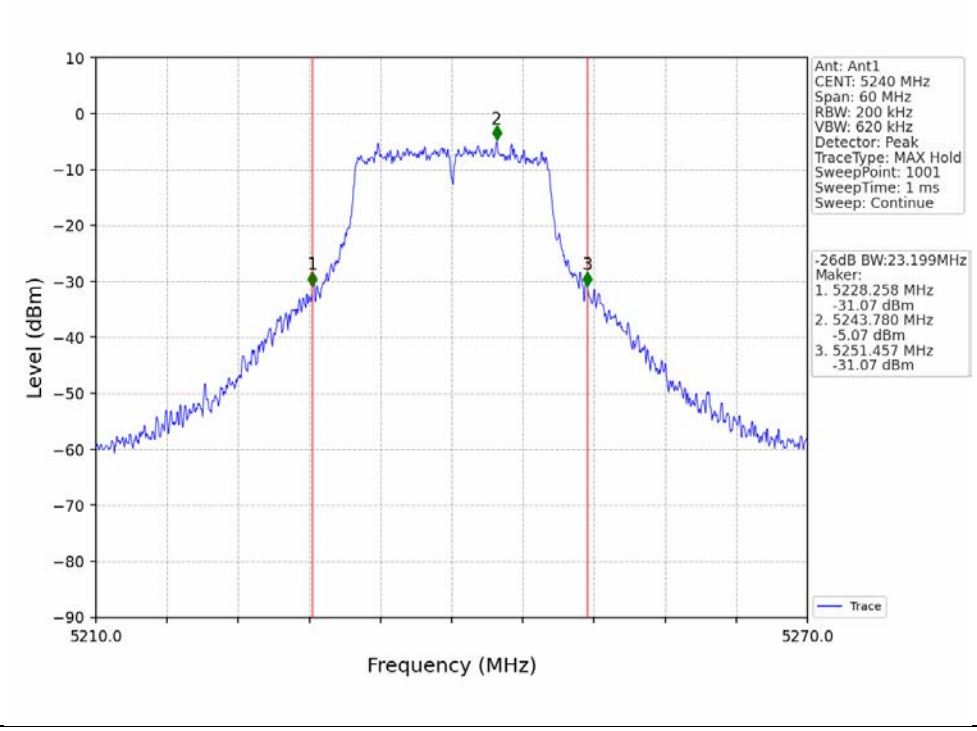
802.11a_LCH_5180MHz_Ant1_NTNV



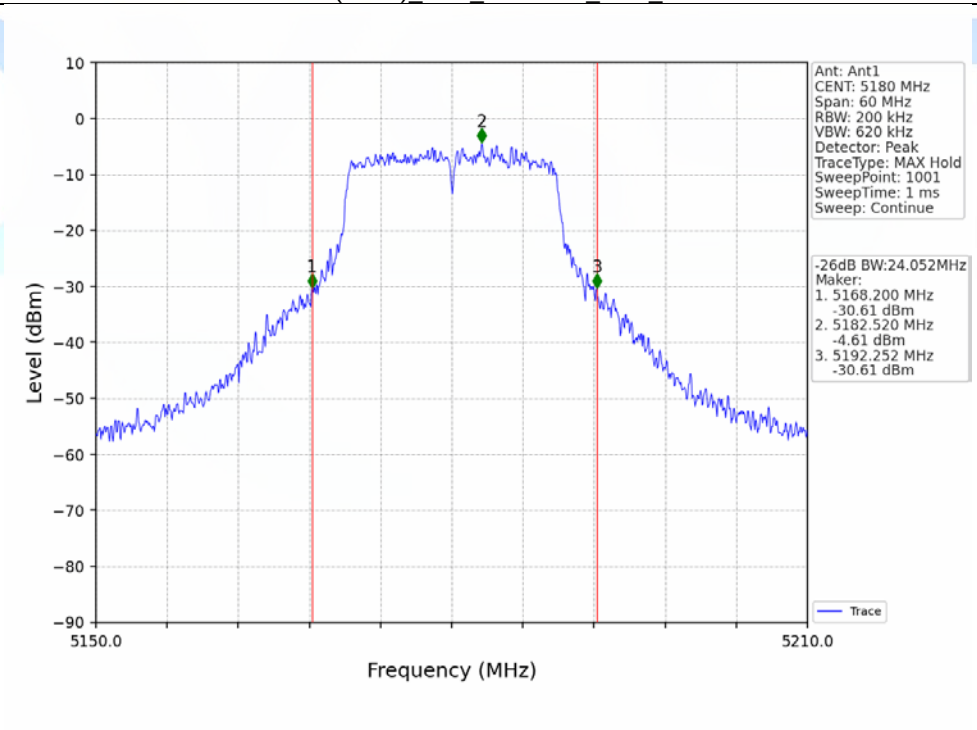
802.11a_MCH_5200MHz_Ant1_NTNV



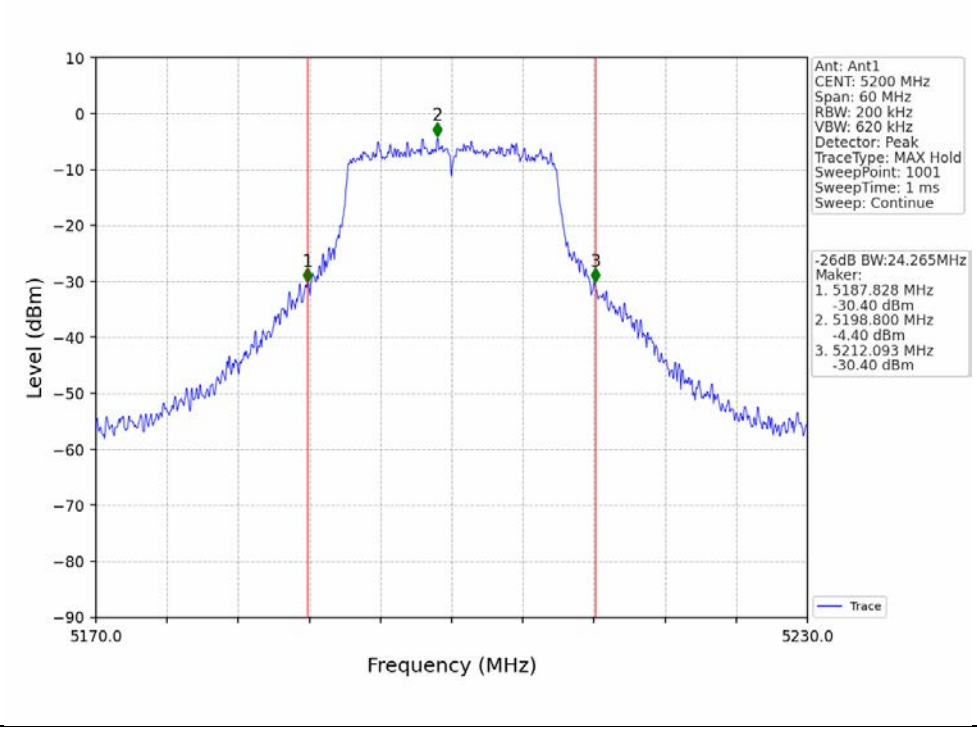
802.11a_HCH_5240MHz_Ant1_NTNV



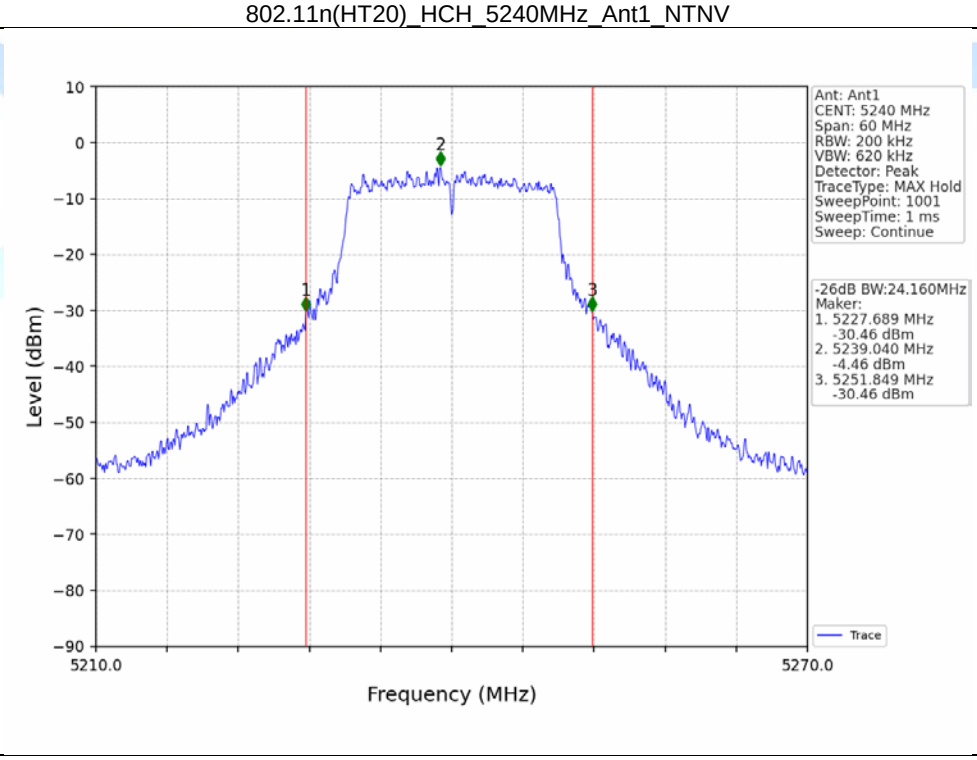
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



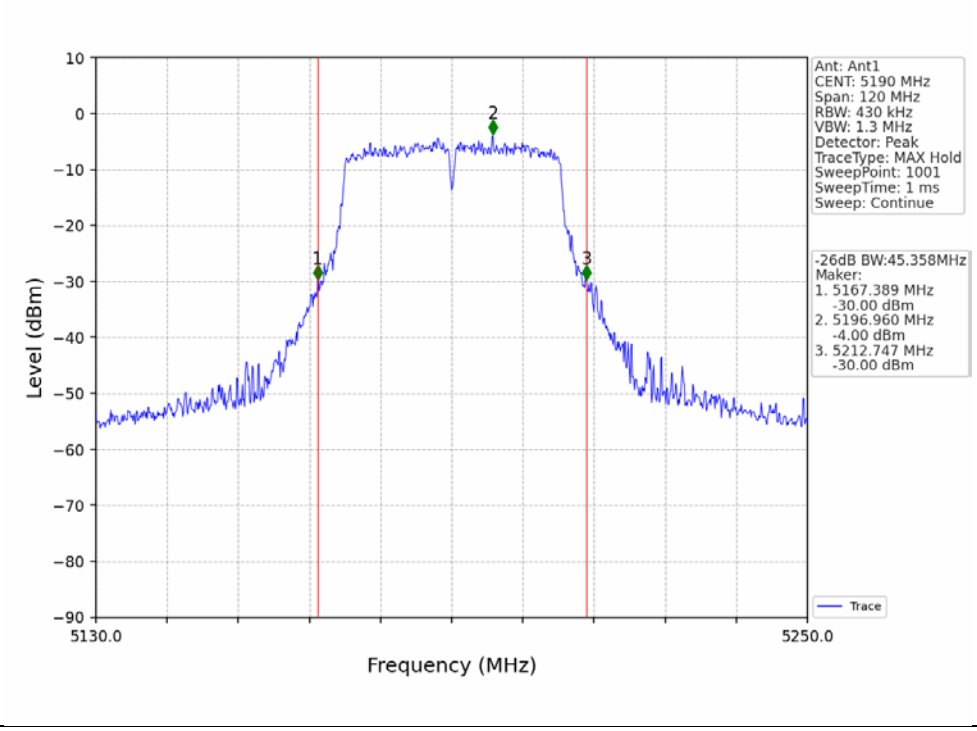
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



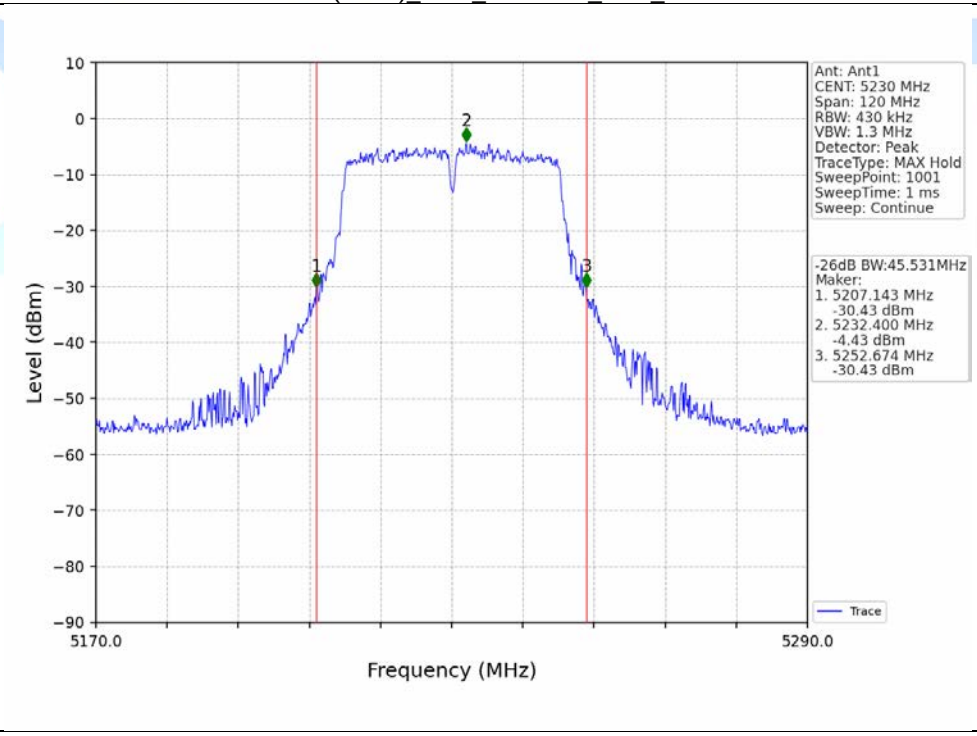
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



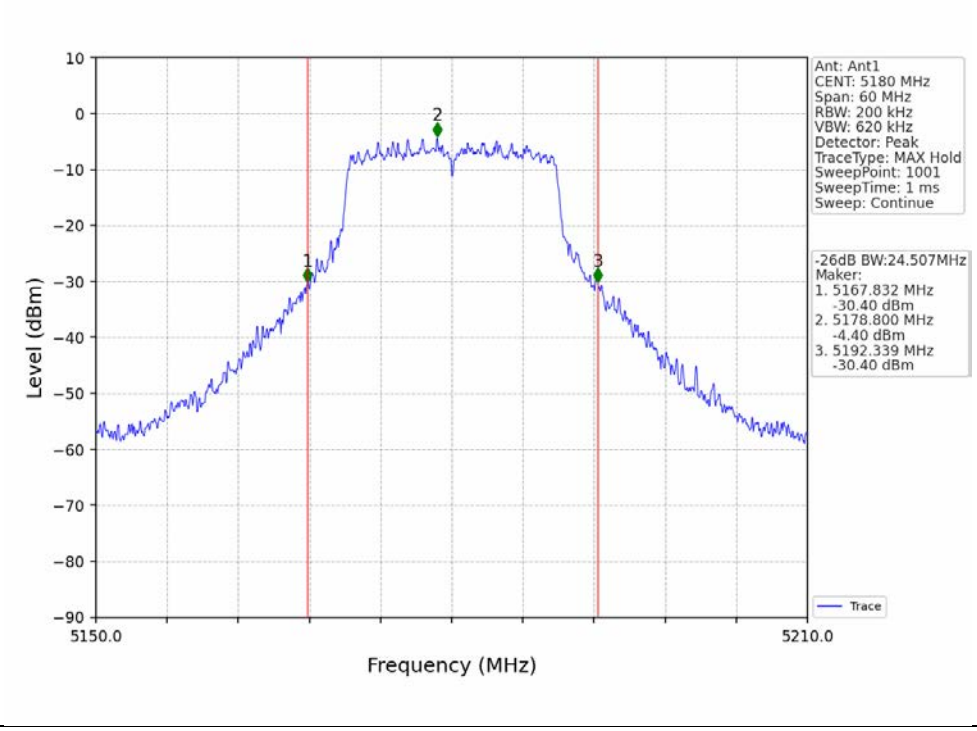
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



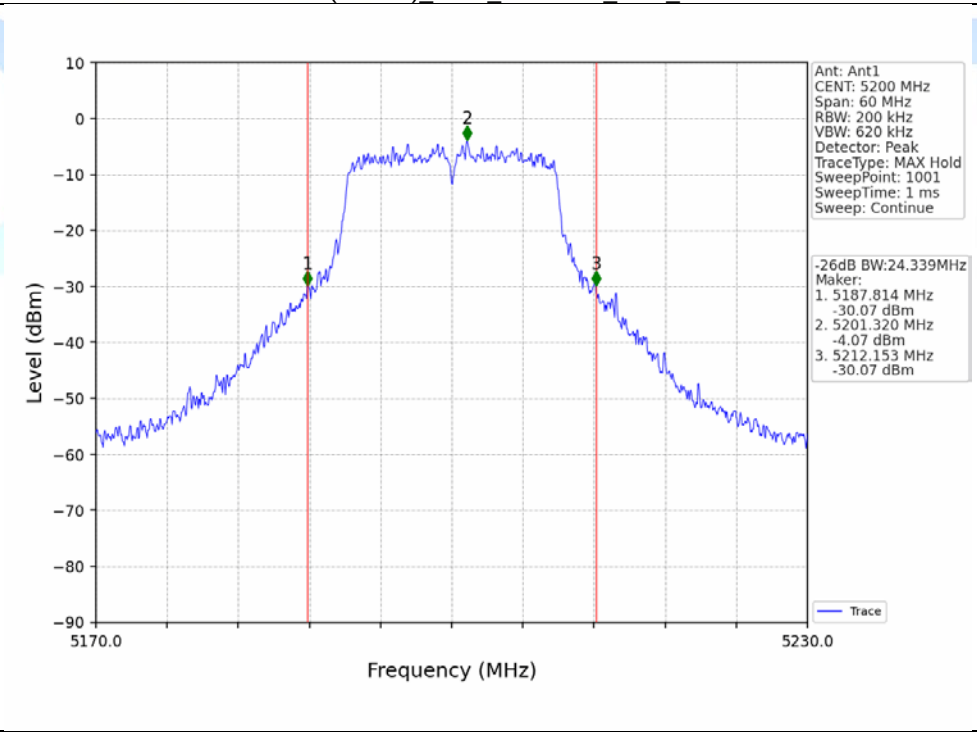
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



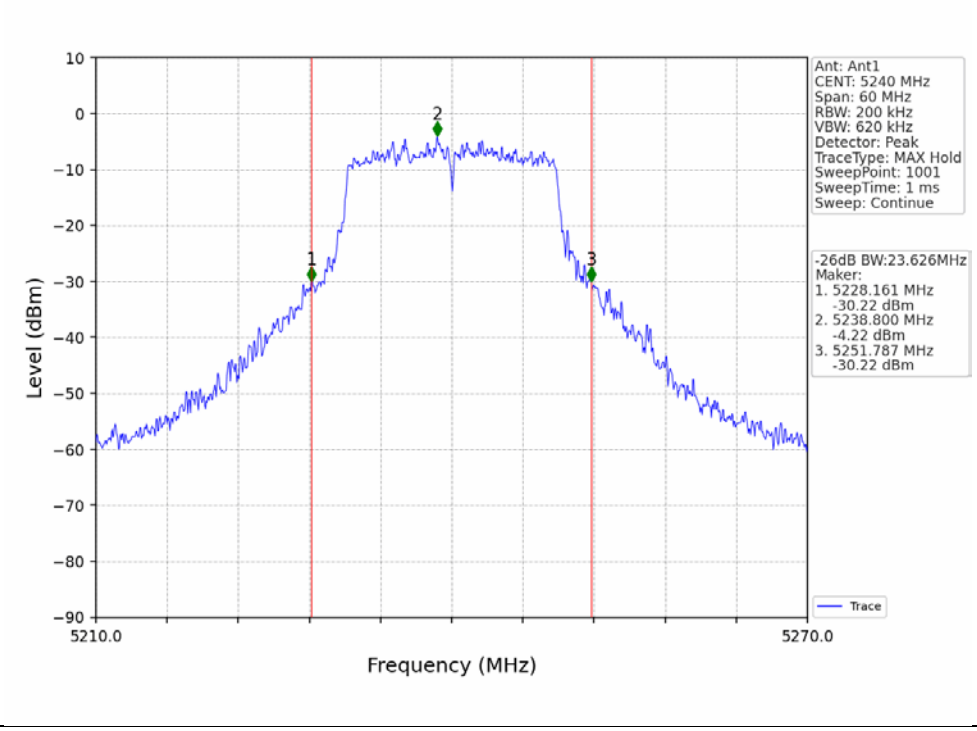
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



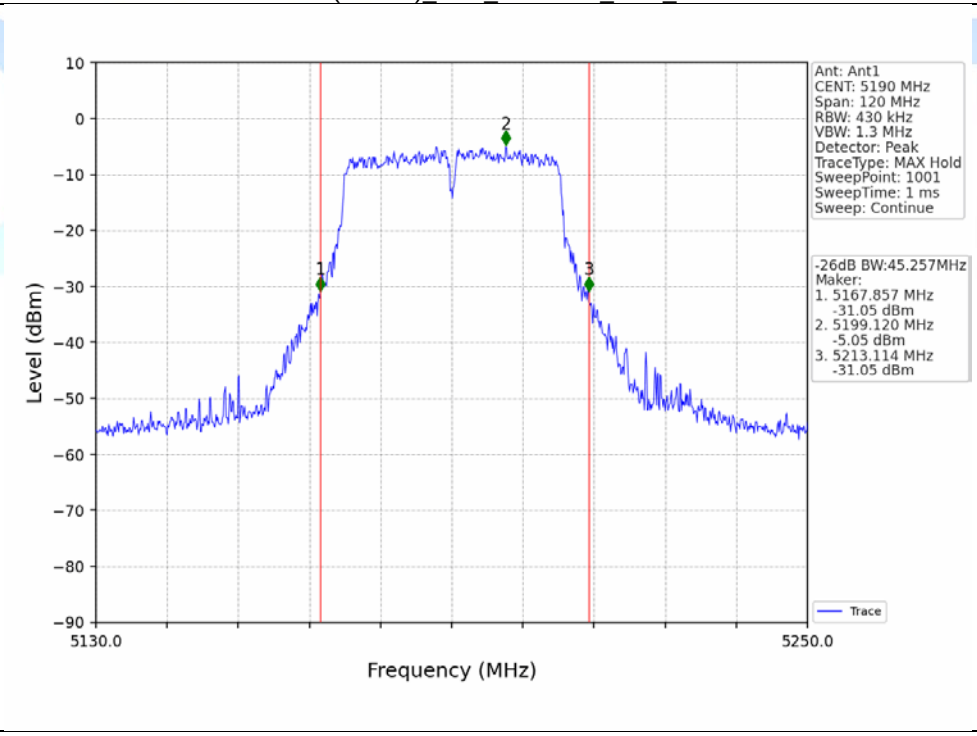
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



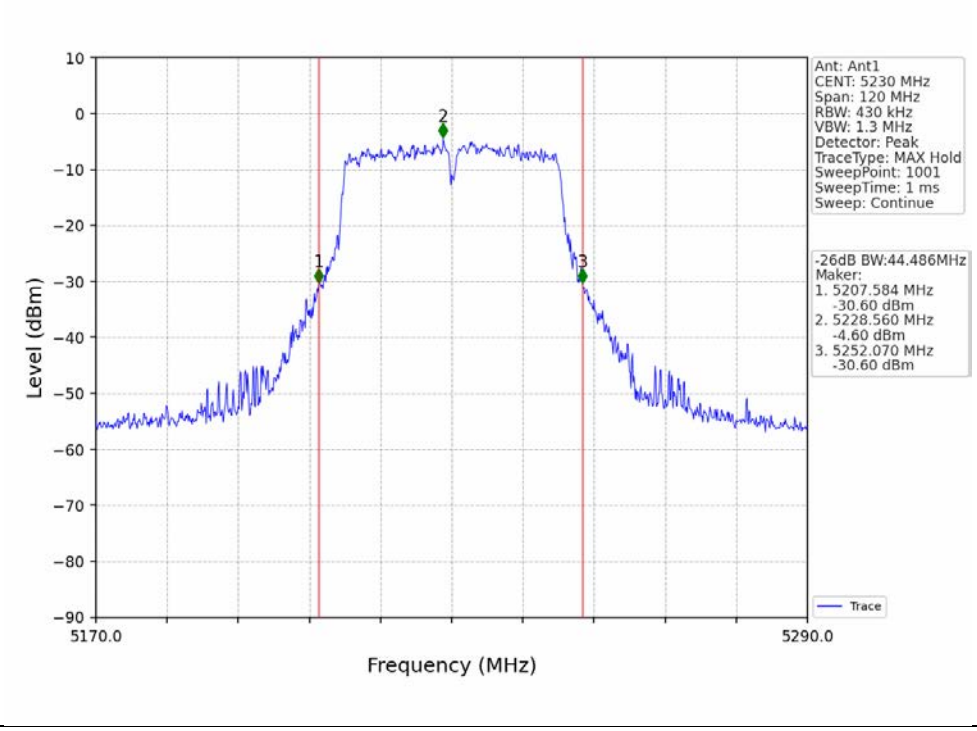
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



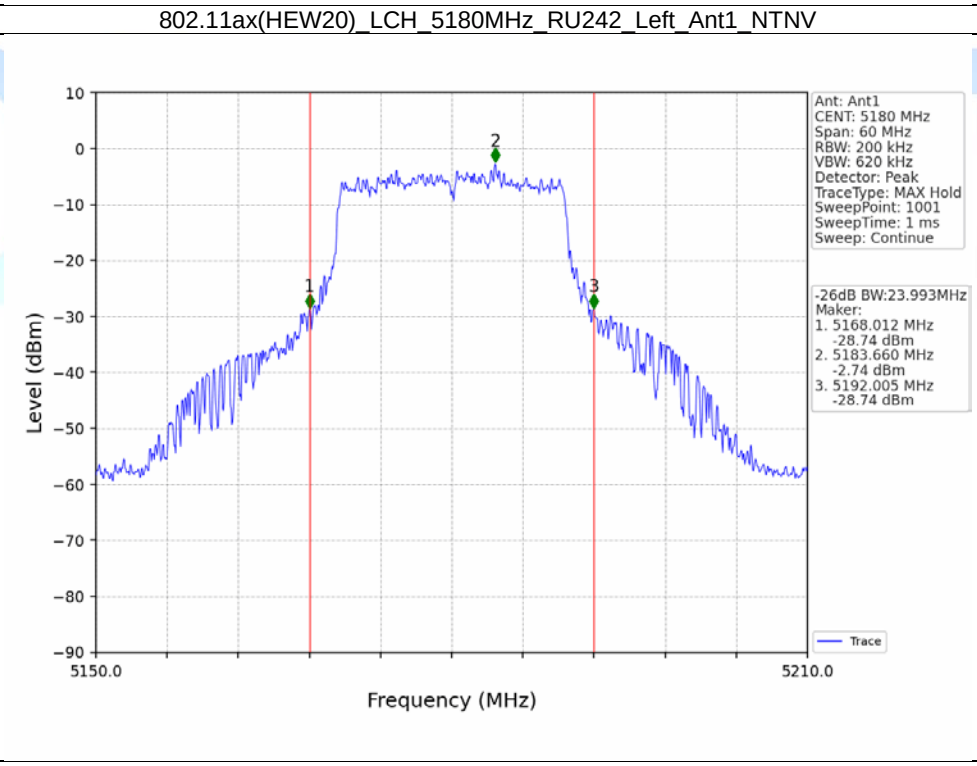
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



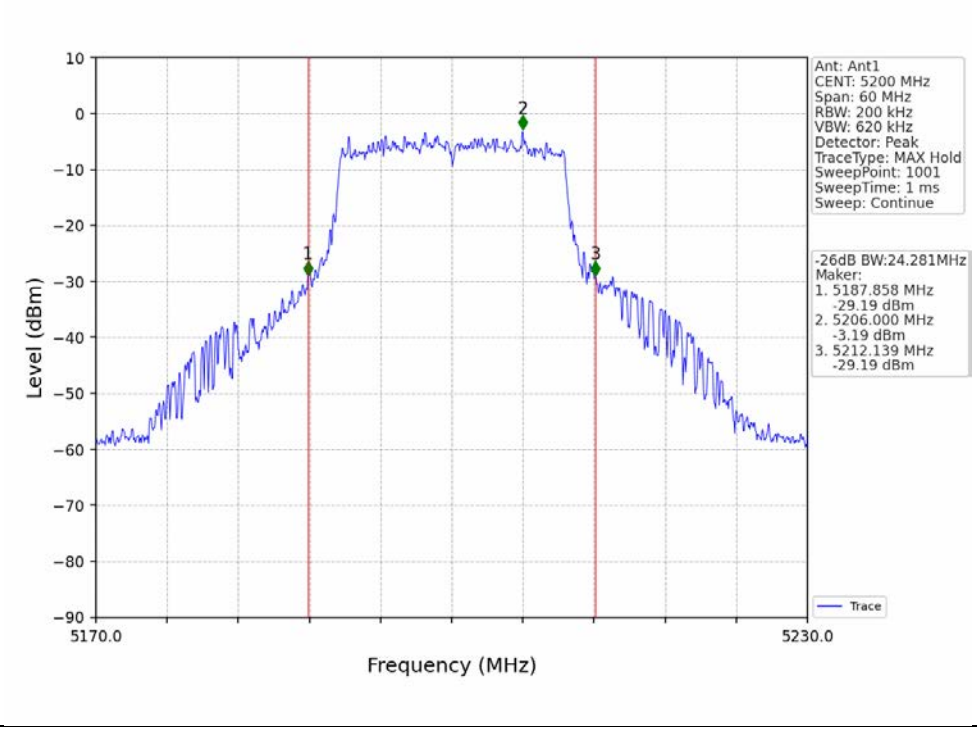
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



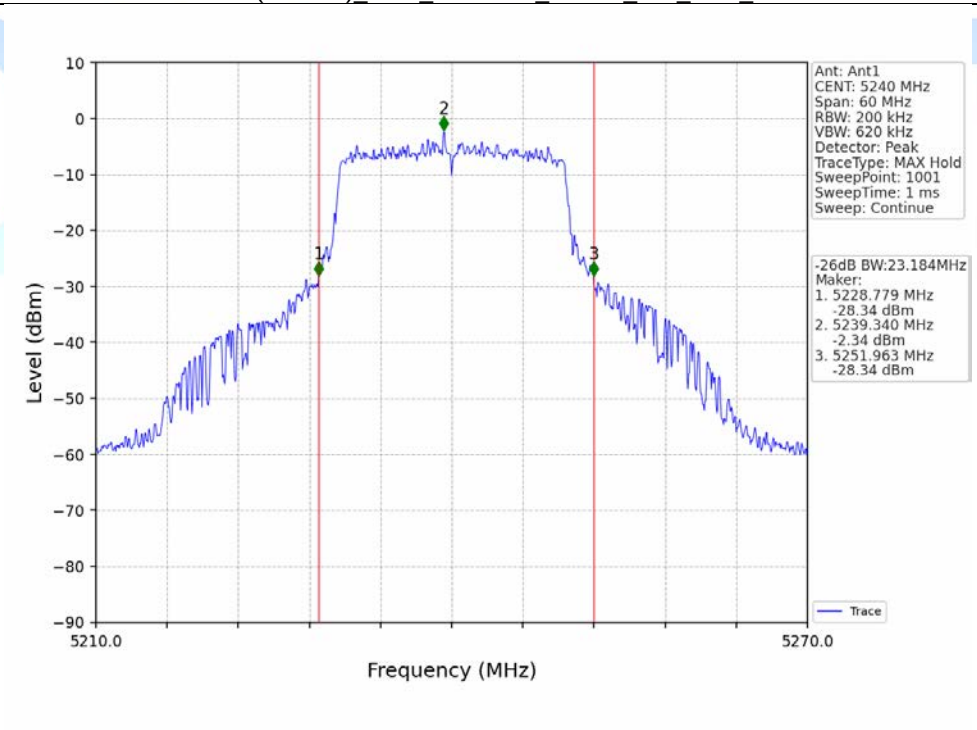
802.11ax(HEW20)_LCH_5180MHz_RU242_Left_Ant1_NTNV



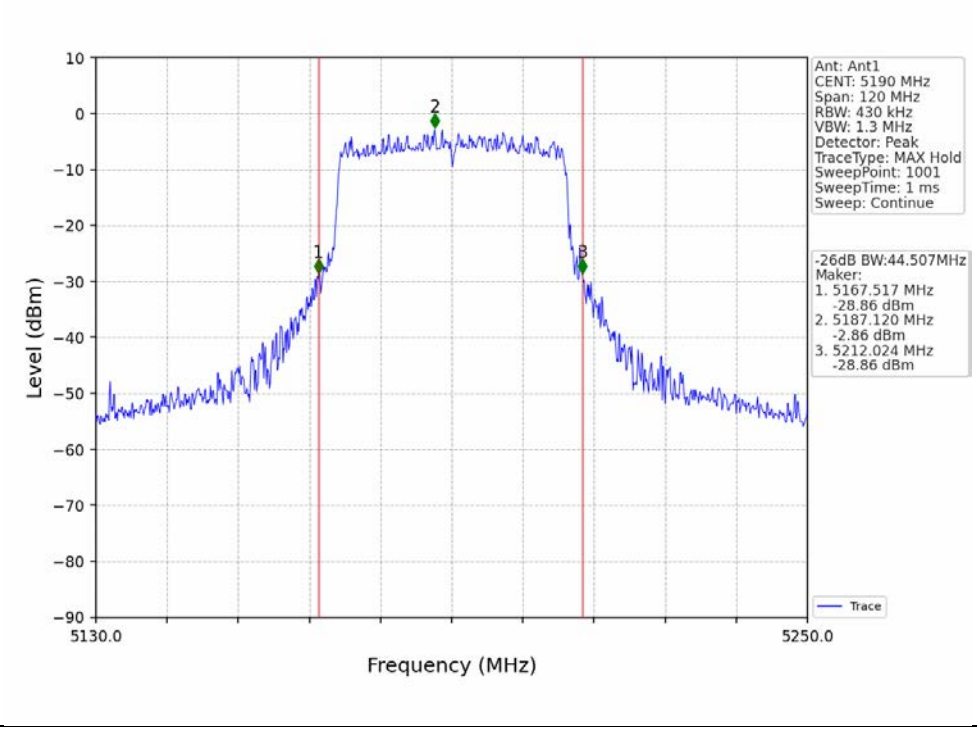
802.11ax(HEW20)_MCH_5200MHz_RU242_Left_Ant1_NTNV



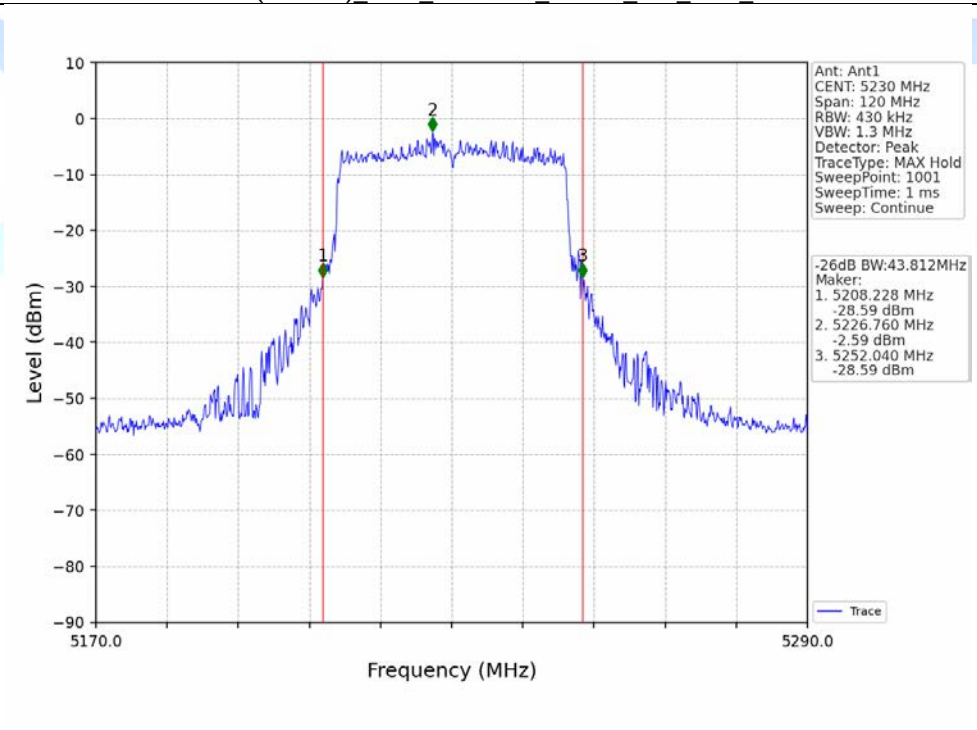
802.11ax(HEW20)_HCH_5240MHz_RU242_Left_Ant1_NTNV



802.11ax(HEW40)_LCH_5190MHz_RU484_Left_Ant1_NTNV



802.11ax(HEW40)_HCH_5230MHz_RU484_Left_Ant1_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	Limit	
802.11a	SISO	5180	/	/	5.77	<=23.98	Pass
		5200	/	/	5.21	<=23.98	Pass
		5240	/	/	4.12	<=23.98	Pass
802.11n (HT20)	SISO	5180	/	/	6.83	<=23.98	Pass
		5200	/	/	5.81	<=23.98	Pass
		5240	/	/	5.90	<=23.98	Pass
802.11n (HT40)	SISO	5190	/	/	5.02	<=23.98	Pass
		5230	/	/	5.28	<=23.98	Pass
802.11ac (VHT20)	SISO	5180	/	/	6.27	<=23.98	Pass
		5200	/	/	5.15	<=23.98	Pass
		5240	/	/	5.89	<=23.98	Pass
802.11ac (VHT40)	SISO	5190	/	/	5.66	<=23.98	Pass
		5230	/	/	6.05	<=23.98	Pass
802.11ax (HEW20)	SISO	5180	RU242	Left	5.60	<=23.98	Pass
		5200	RU242	Left	5.46	<=23.98	Pass
		5240	RU242	Left	5.71	<=23.98	Pass
802.11ax (HEW40)	SISO	5190	RU484	Left	5.39	<=23.98	Pass
		5230	RU484	Left	5.44	<=23.98	Pass
Note1: Antenna Gain: Ant1: 2.58dBi;							

4. Maximum Power Spectral Density

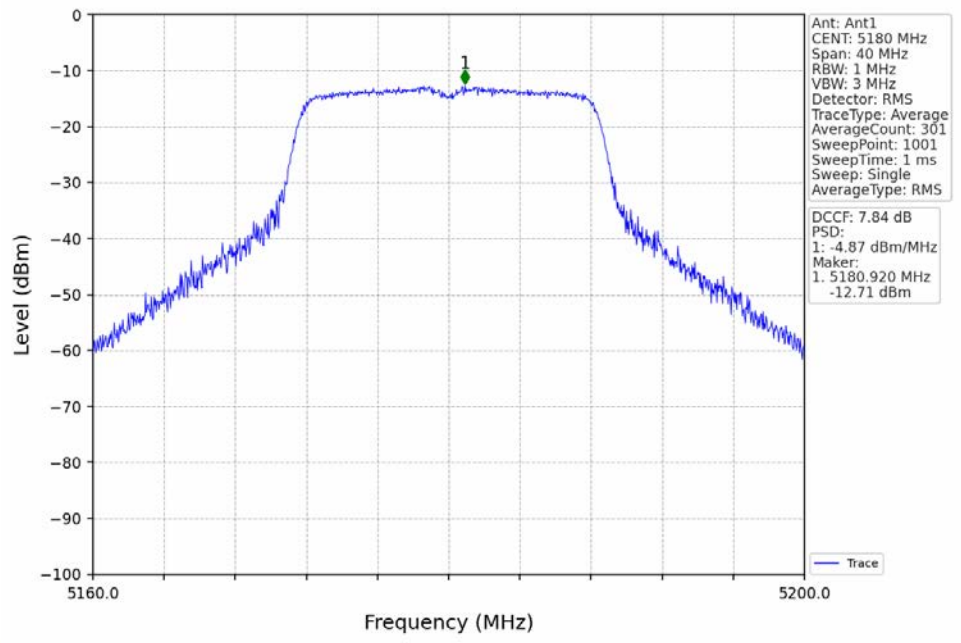
4.1 PSD

4.1.1 Test Result

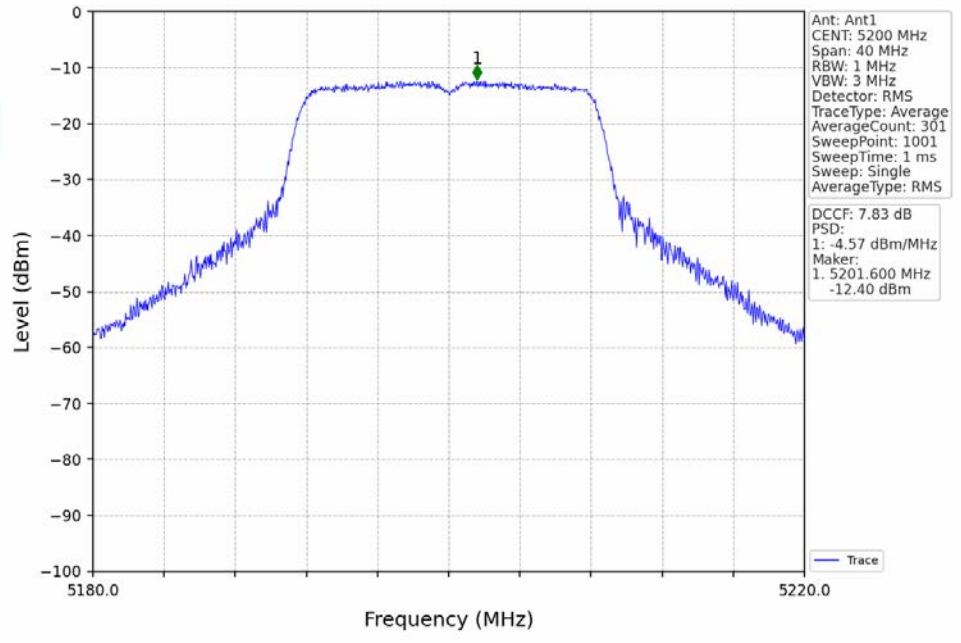
Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/MHz)		Verdict
					ANT1	Limit	
802.11a	SISO	5180	/	/	-4.87	<=11	Pass
		5200	/	/	-4.57	<=11	Pass
		5240	/	/	-5.70	<=11	Pass
802.11n (HT20)	SISO	5180	/	/	-4.34	<=11	Pass
		5200	/	/	-5.08	<=11	Pass
		5240	/	/	-5.58	<=11	Pass
802.11n (HT40)	SISO	5190	/	/	-8.32	<=11	Pass
		5230	/	/	-8.49	<=11	Pass
802.11ac (VHT20)	SISO	5180	/	/	-4.62	<=11	Pass
		5200	/	/	-5.06	<=11	Pass
		5240	/	/	-5.27	<=11	Pass
802.11ac (VHT40)	SISO	5190	/	/	-8.02	<=11	Pass
		5230	/	/	-7.49	<=11	Pass
802.11ax (HEW20)	SISO	5180	RU242	Left	-5.32	<=11	Pass
		5200	RU242	Left	-5.74	<=11	Pass
		5240	RU242	Left	-4.87	<=11	Pass
802.11ax (HEW40)	SISO	5190	RU484	Left	-6.65	<=11	Pass
		5230	RU484	Left	-6.97	<=11	Pass
Note1: Antenna Gain: Ant1: 2.58dBi; Note2: Test result contains DCCF							

4.1.2 Test Graph

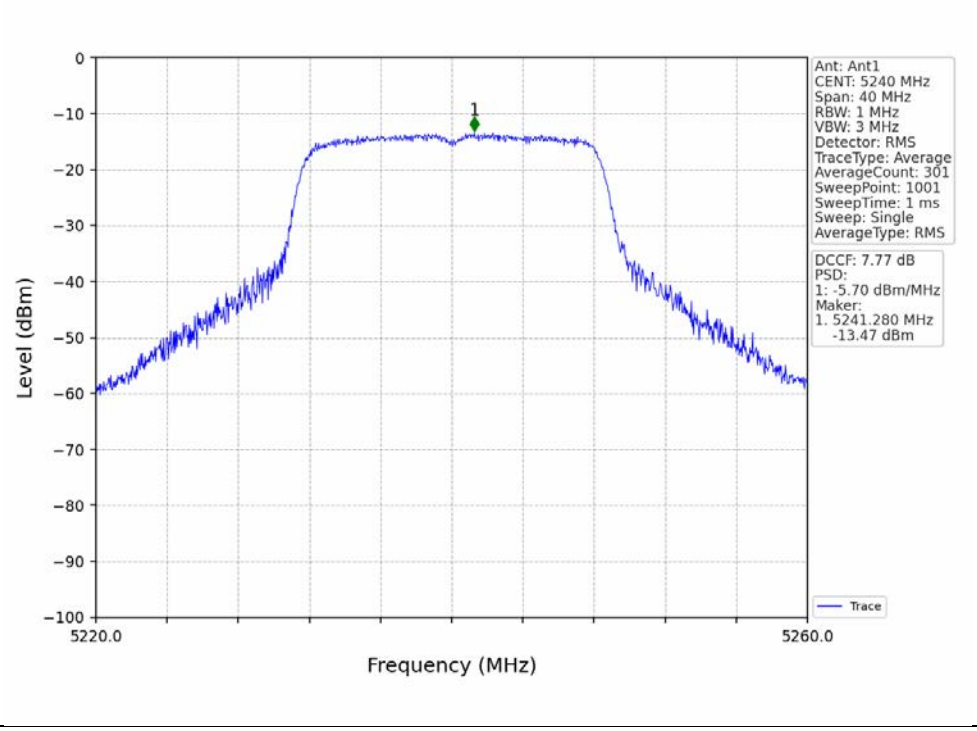
802.11a_LCH_5180MHz_Ant1_NTNV



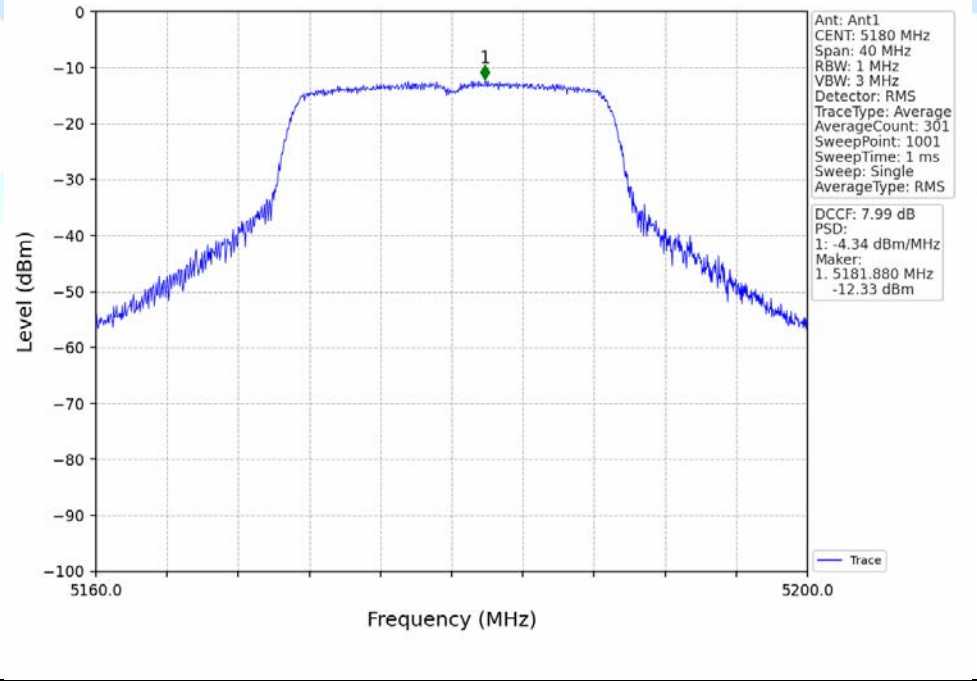
802.11a_MCH_5200MHz_Ant1_NTNV



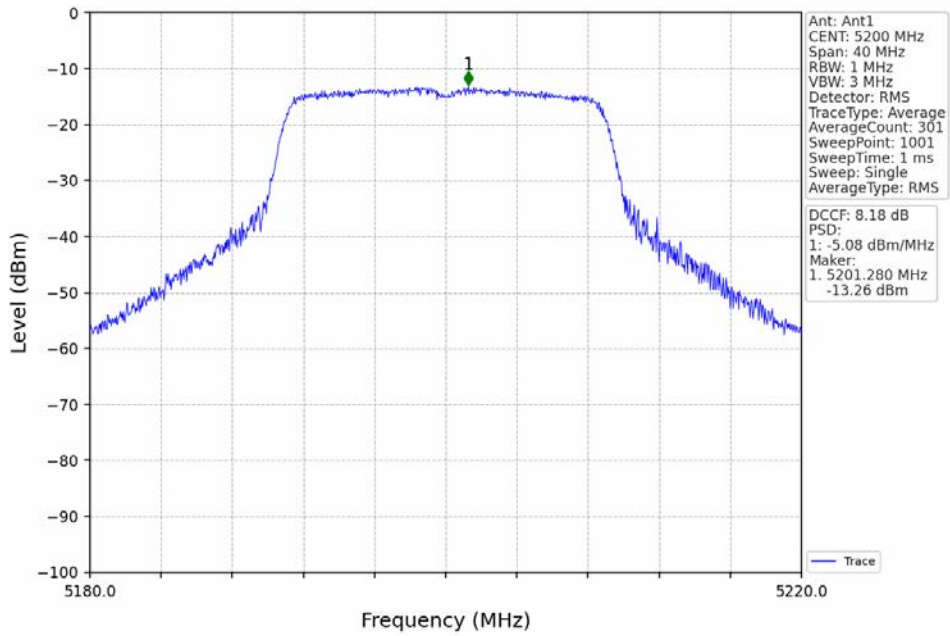
802.11a_HCH_5240MHz_Ant1_NTNV



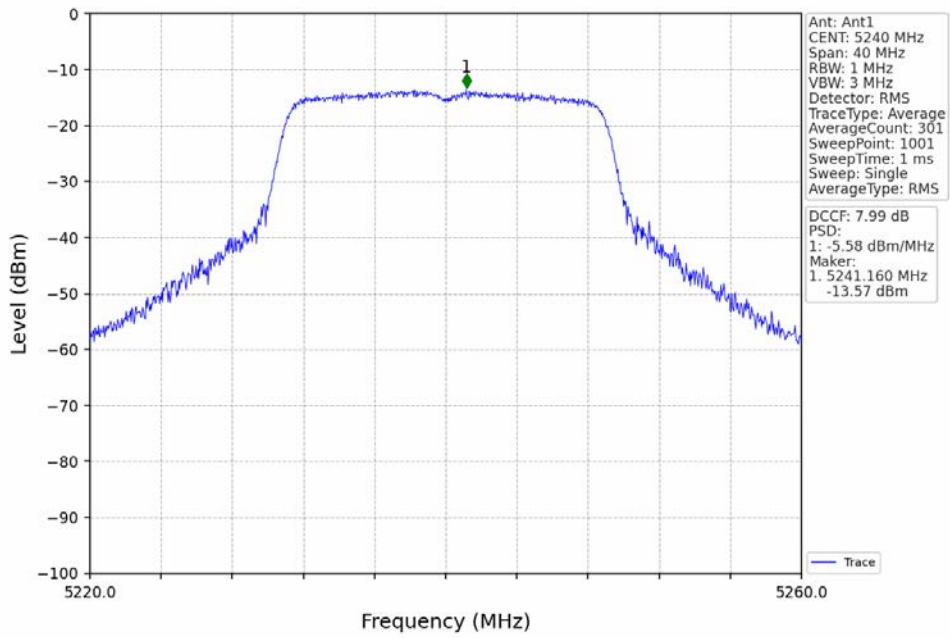
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



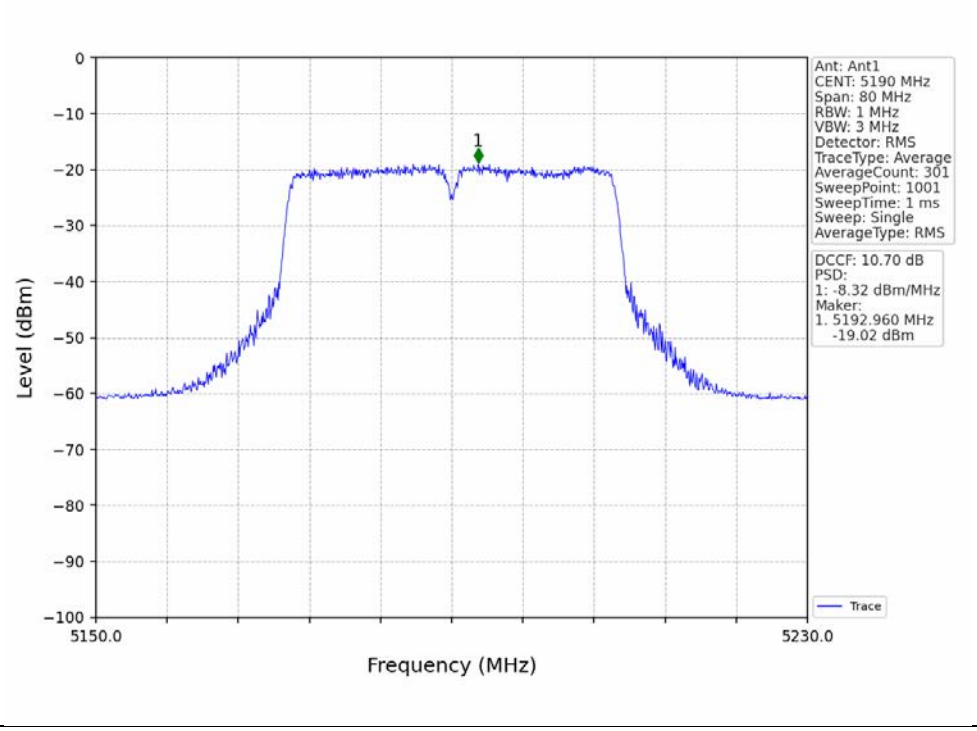
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



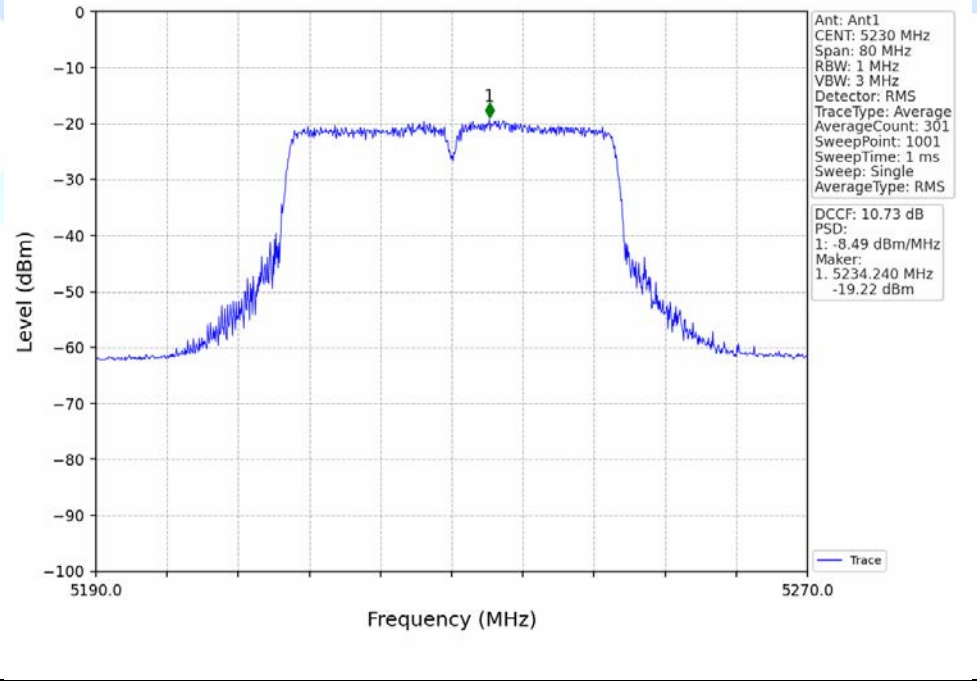
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



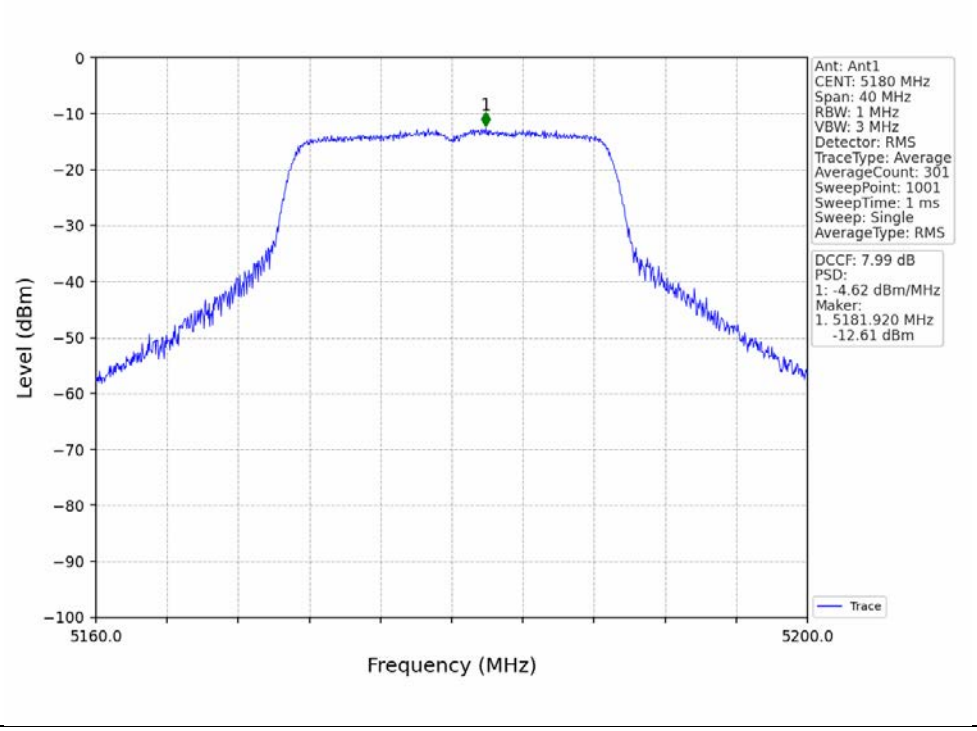
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



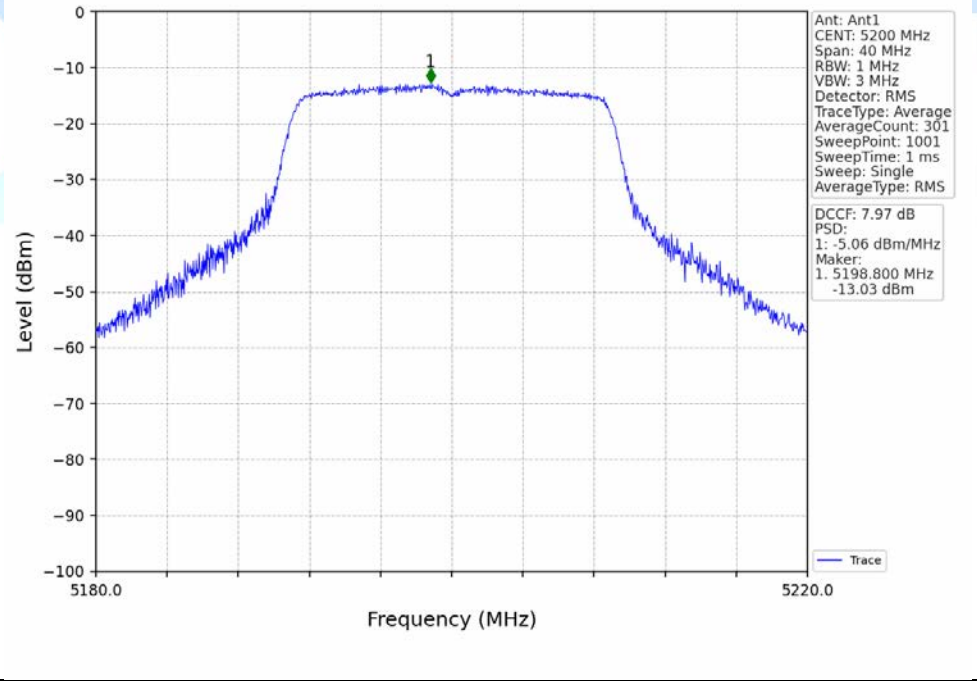
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



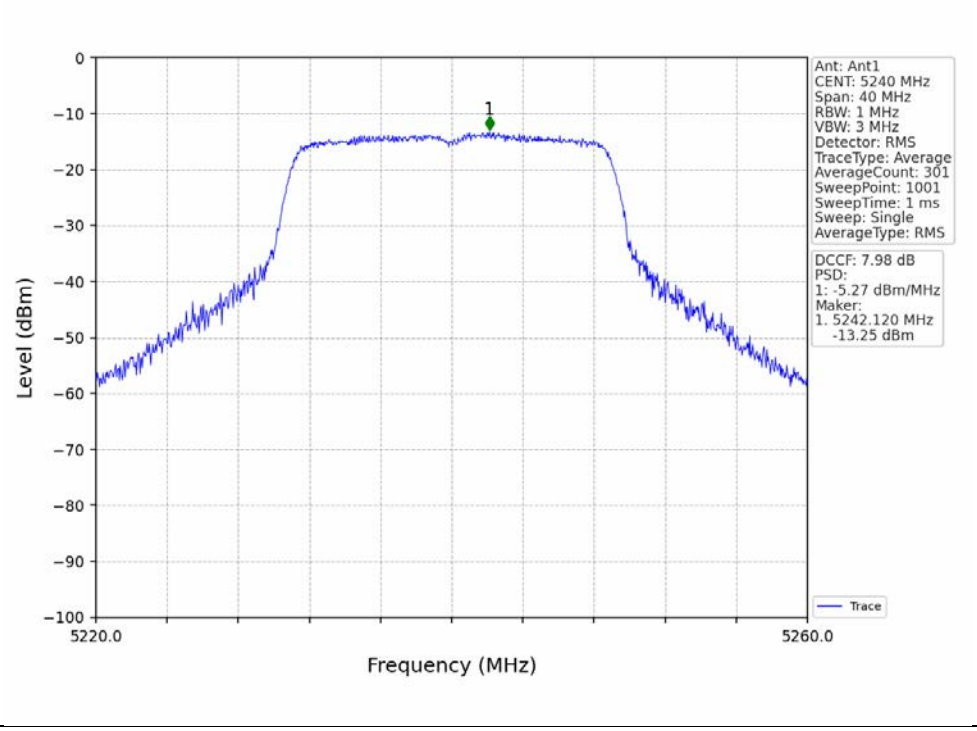
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



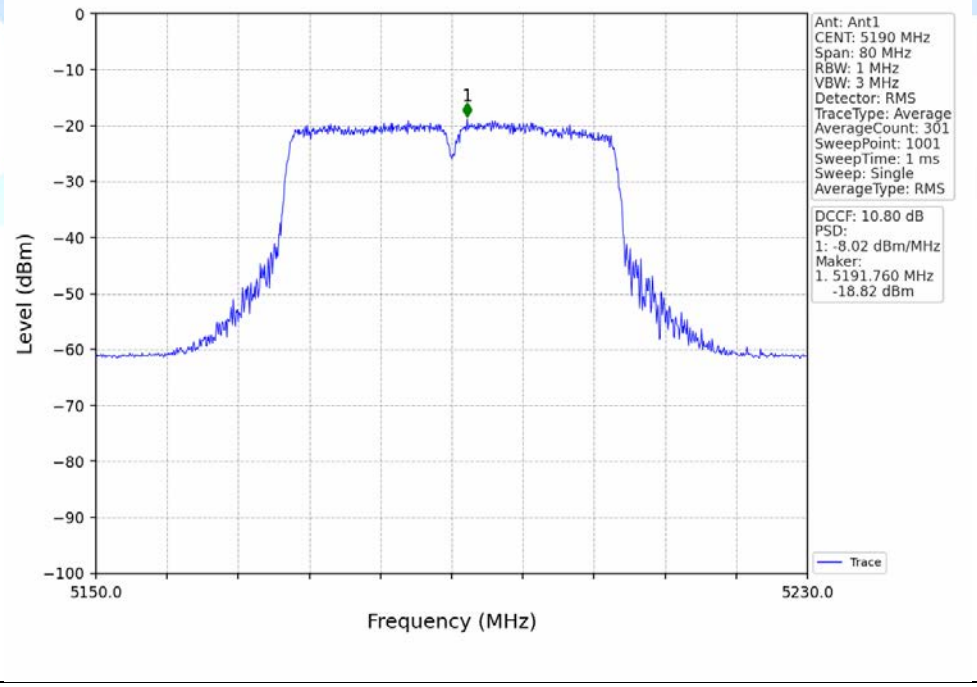
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



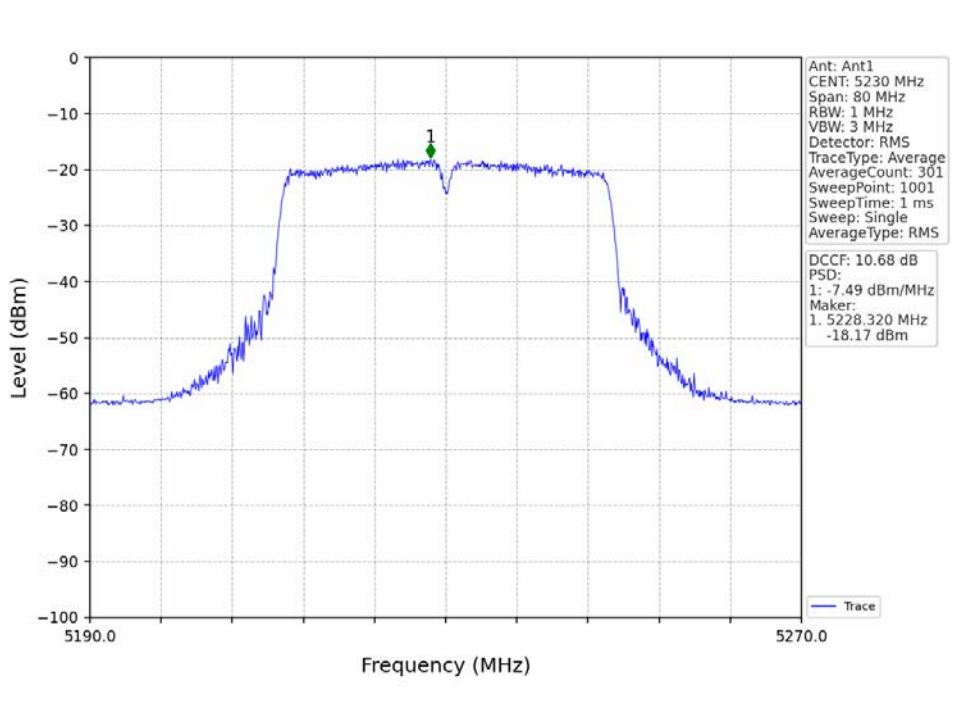
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



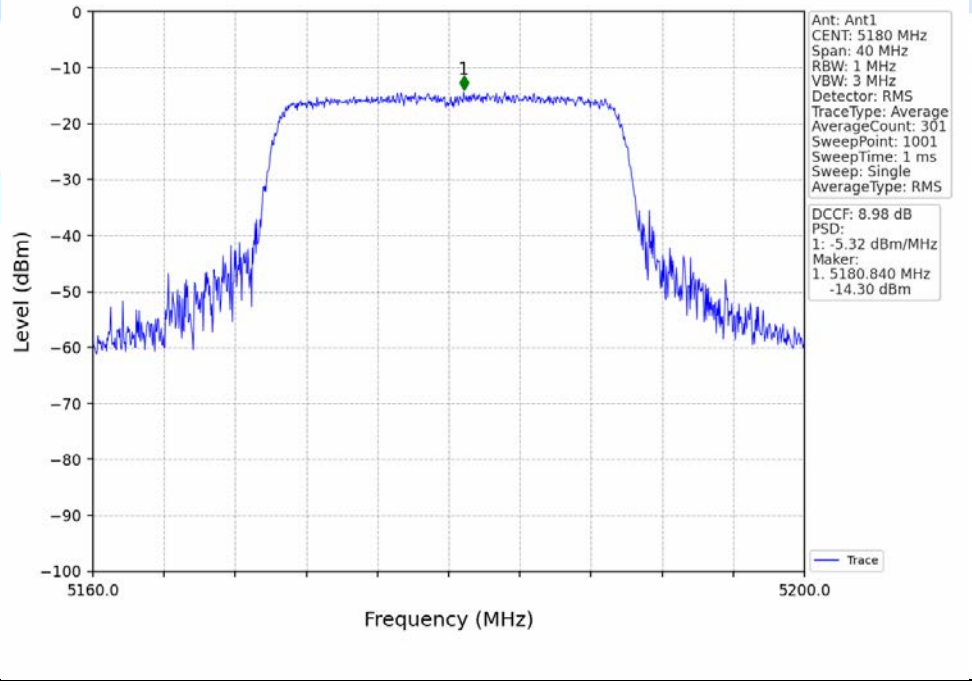
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



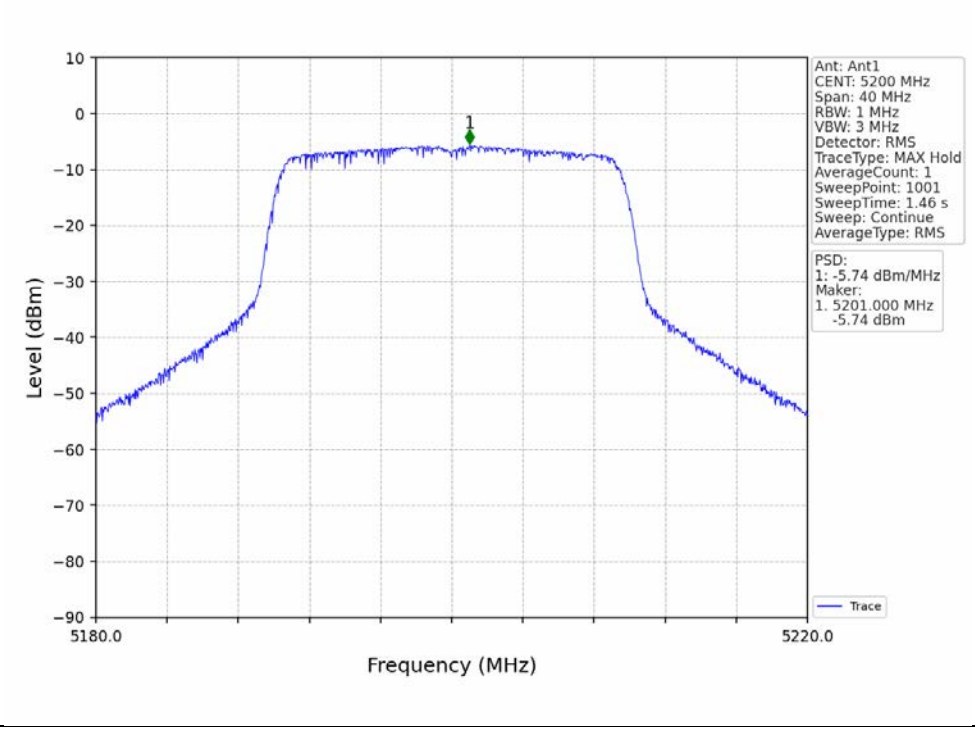
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



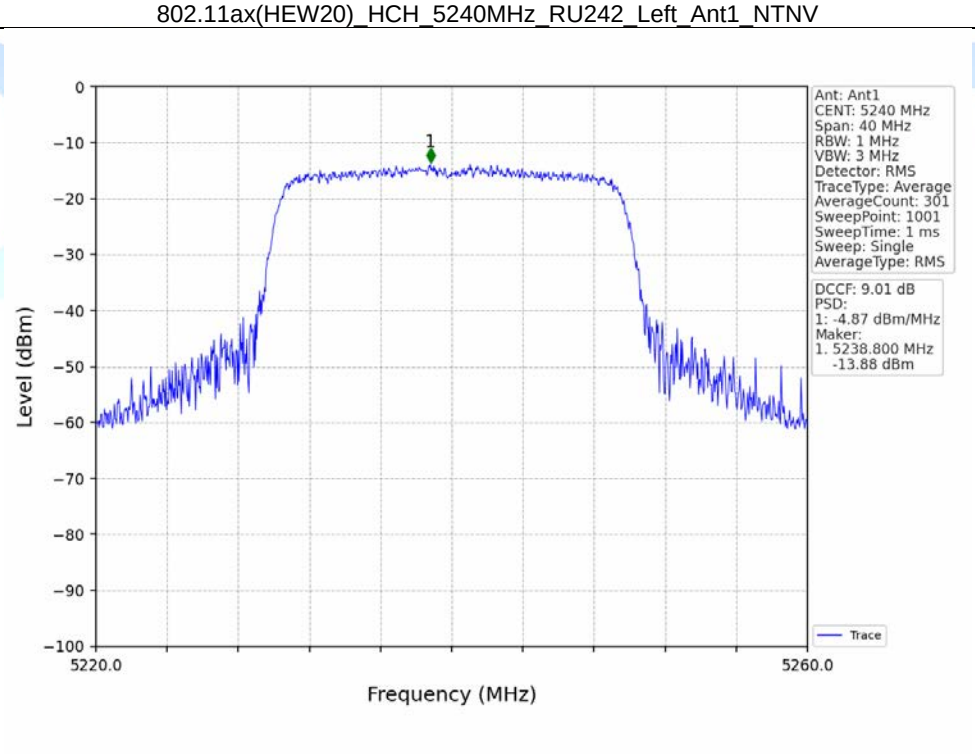
802.11ax(HEW20)_LCH_5180MHz_RU242_Left_Ant1_NTNV



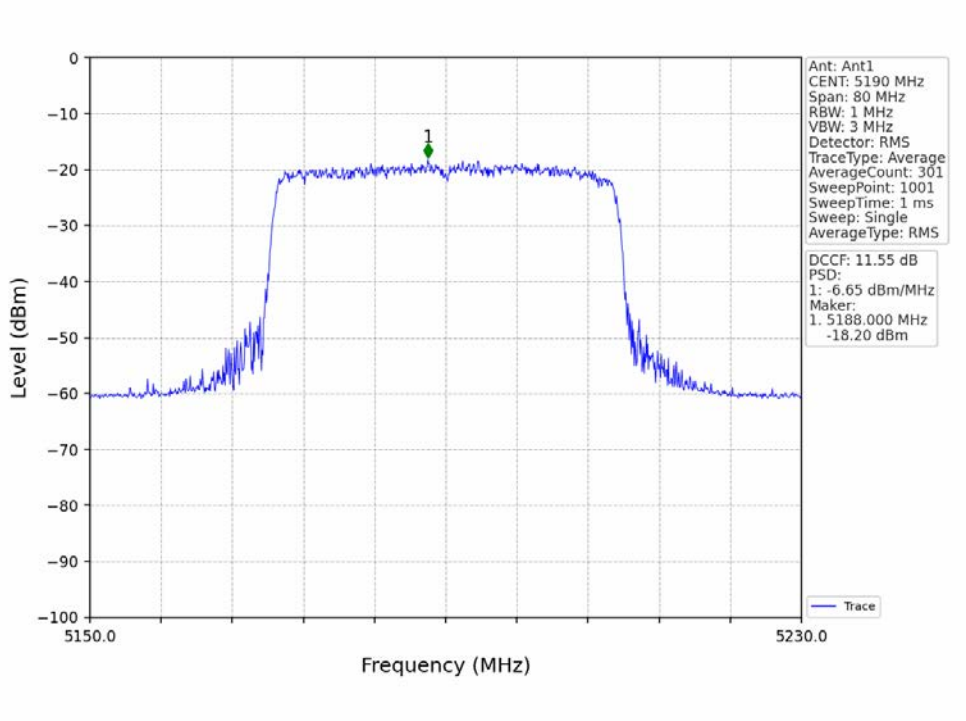
802.11ax(HEW20)_MCH_5200MHz_RU242_Left_Ant1_NTNV



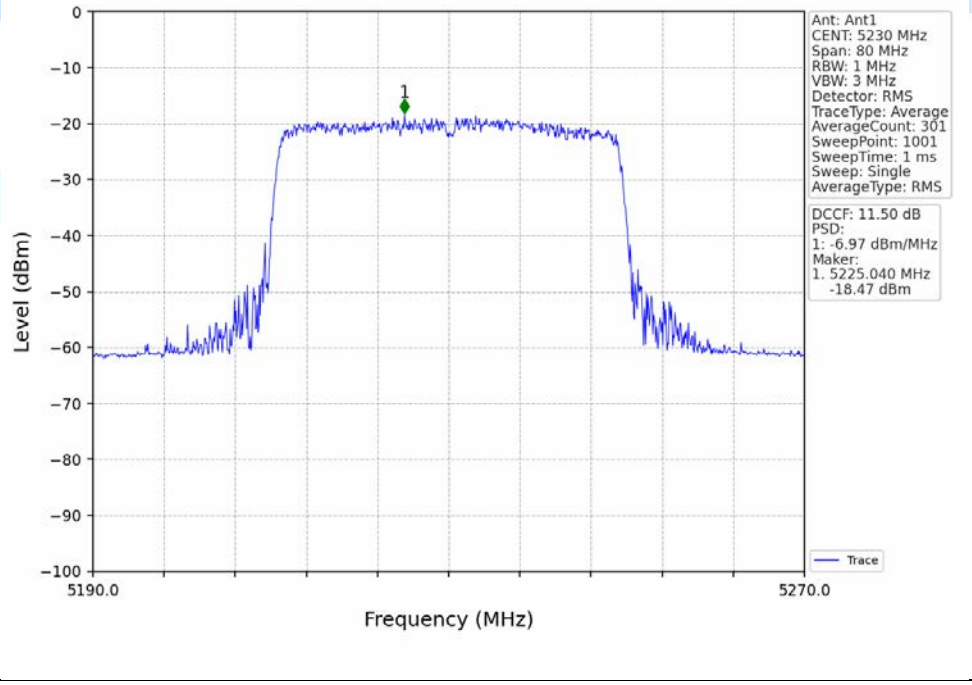
802.11ax(HEW20)_HCH_5240MHz_RU242_Left_Ant1_NTNV



802.11ax(HEW40)_LCH_5190MHz_RU484_Left_Ant1_NTNV



802.11ax(HEW40)_HCH_5230MHz_RU484_Left_Ant1_NTNV



5. Frequency Stability

5.1 Ant1

5.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VAC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
Carrier Wave	SISO	5180	20	102	5179.981	5150 to 5250	Pass
				120	5179.981	5150 to 5250	Pass
				138	5179.981	5150 to 5250	Pass
			-30	120	5179.981	5150 to 5250	Pass
			-20	120	5179.981	5150 to 5250	Pass
			-10	120	5179.980	5150 to 5250	Pass
			0	120	5179.981	5150 to 5250	Pass
			10	120	5179.981	5150 to 5250	Pass
			30	120	5179.980	5150 to 5250	Pass
			40	120	5179.980	5150 to 5250	Pass
			50	120	5179.980	5150 to 5250	Pass
		5200	20	102	5199.980	5150 to 5250	Pass
				120	5199.980	5150 to 5250	Pass
				138	5199.980	5150 to 5250	Pass
			-30	120	5199.980	5150 to 5250	Pass
			-20	120	5199.980	5150 to 5250	Pass
			-10	120	5199.980	5150 to 5250	Pass
			0	120	5199.980	5150 to 5250	Pass
			10	120	5199.980	5150 to 5250	Pass
			30	120	5199.980	5150 to 5250	Pass
			40	120	5199.980	5150 to 5250	Pass
			50	120	5199.980	5150 to 5250	Pass
		5240	20	102	5239.980	5150 to 5250	Pass
				120	5239.980	5150 to 5250	Pass
				138	5239.980	5150 to 5250	Pass
			-30	120	5239.980	5150 to 5250	Pass
			-20	120	5239.980	5150 to 5250	Pass
			-10	120	5239.980	5150 to 5250	Pass
			0	120	5239.980	5150 to 5250	Pass
			10	120	5239.980	5150 to 5250	Pass
			30	120	5239.980	5150 to 5250	Pass
			40	120	5239.980	5150 to 5250	Pass
			50	120	5239.980	5150 to 5250	Pass
		5190	20	102	5189.980	5150 to 5250	Pass
				120	5189.980	5150 to 5250	Pass
				138	5189.980	5150 to 5250	Pass
			-30	120	5189.980	5150 to 5250	Pass
			-20	120	5189.980	5150 to 5250	Pass
			-10	120	5189.980	5150 to 5250	Pass
			0	120	5189.980	5150 to 5250	Pass
			10	120	5189.980	5150 to 5250	Pass
			30	120	5189.980	5150 to 5250	Pass
			40	120	5189.980	5150 to 5250	Pass
			50	120	5189.980	5150 to 5250	Pass
		5230	20	102	5229.980	5150 to 5250	Pass
				120	5229.980	5150 to 5250	Pass
				138	5229.980	5150 to 5250	Pass

			-30	120	5229.980	5150 to 5250	Pass
			-20	120	5229.980	5150 to 5250	Pass
			-10	120	5229.980	5150 to 5250	Pass
			0	120	5229.980	5150 to 5250	Pass
			10	120	5229.980	5150 to 5250	Pass
			30	120	5229.980	5150 to 5250	Pass
			40	120	5229.980	5150 to 5250	Pass
			50	120	5229.980	5150 to 5250	Pass

►►► **END OF REPORT** ◄◄◄