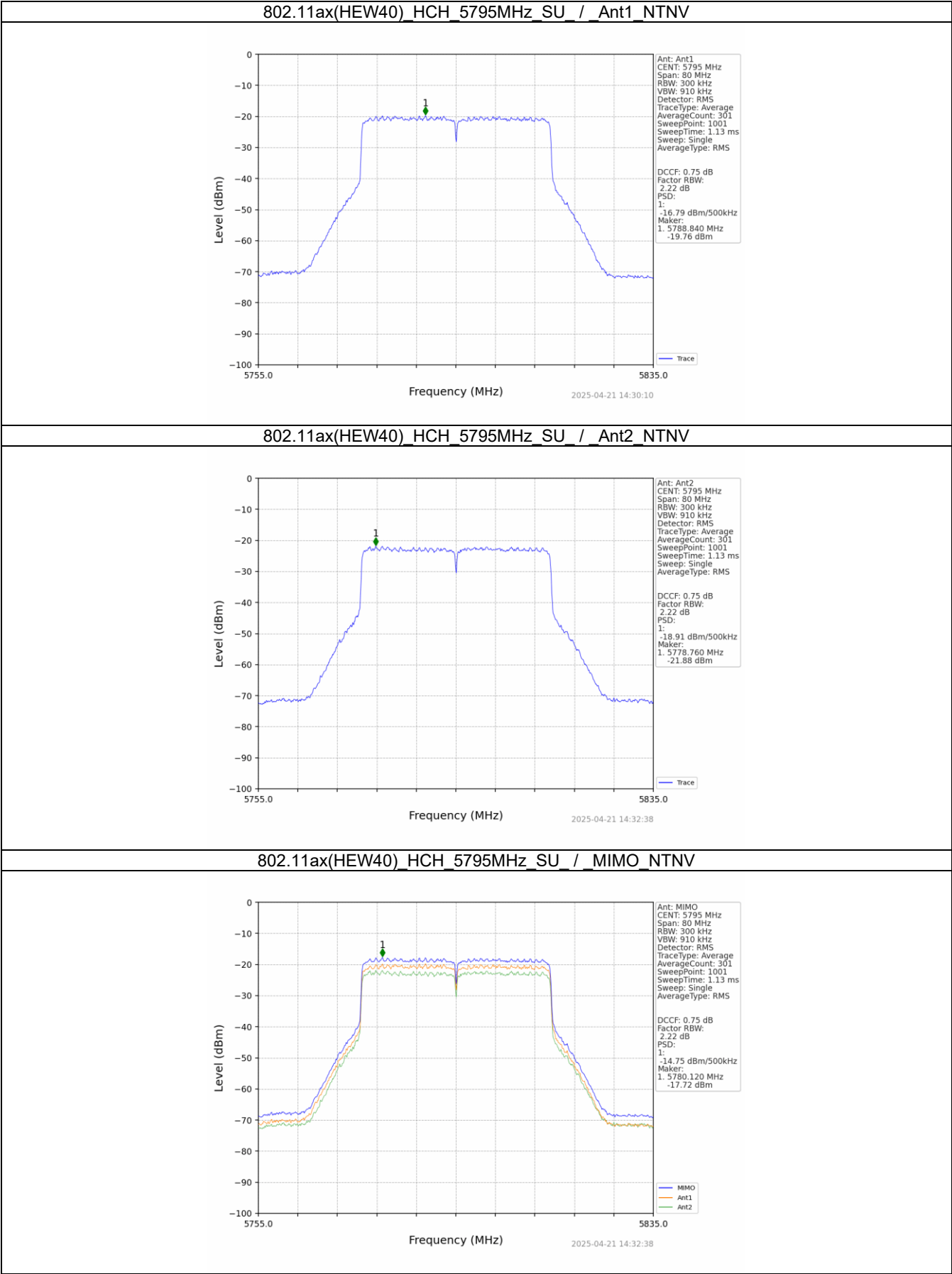
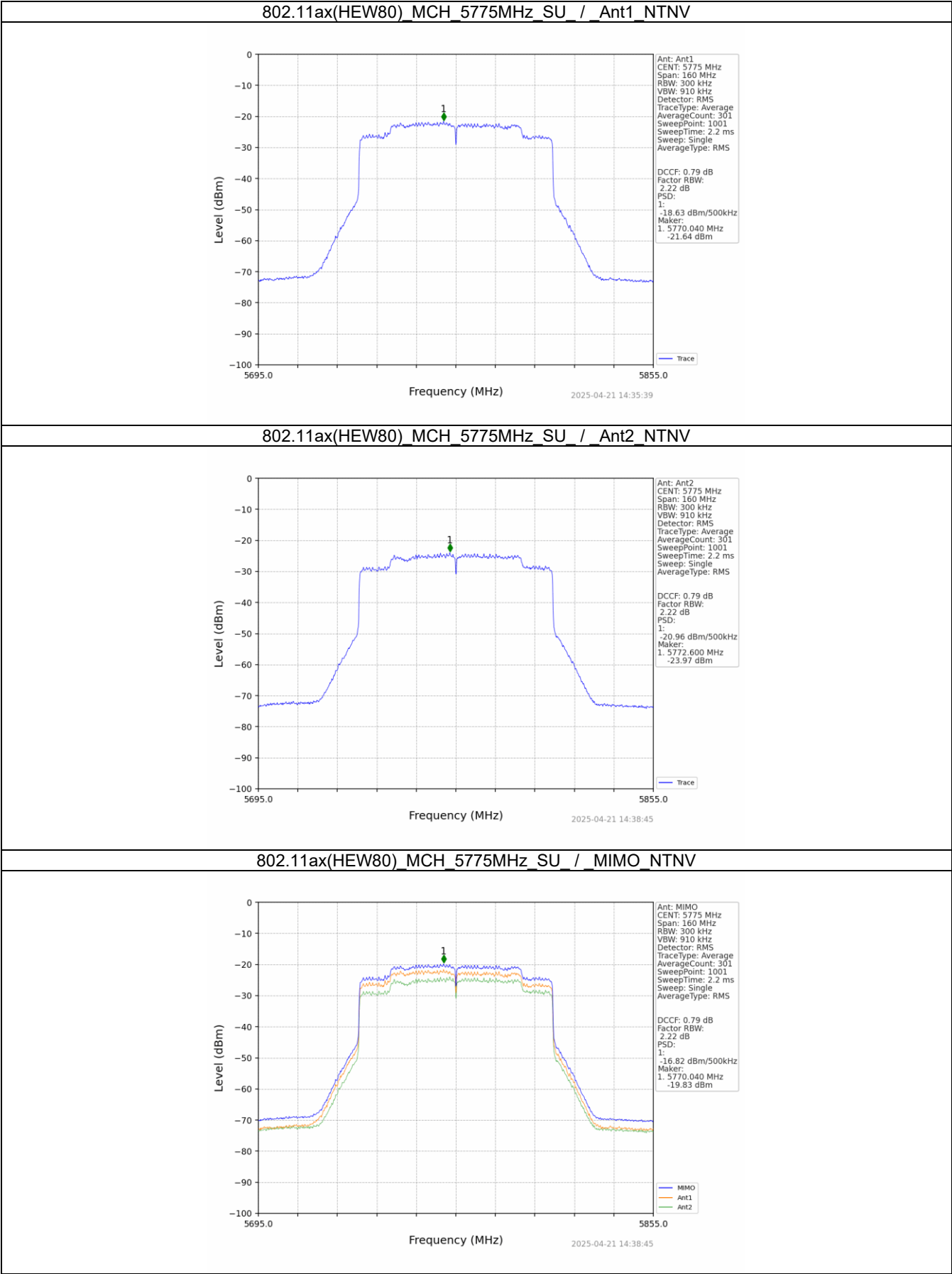






4.5 Emission Bandwidth (26dB Bandwidth)

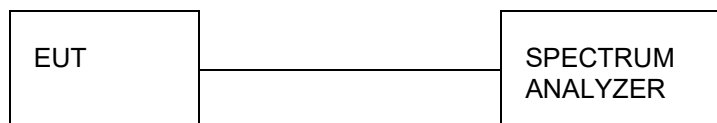
Limit

N/A

Test Procedure

1. Set resolution bandwidth (RBW) = approximately 1 % of the EBW.
2. Set the video bandwidth (VBW) > RBW.
3. Detector = Peak.
4. Trace mode = Max hold.
5. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW / EBW ratio is approximately 1 %.

Test Configuration

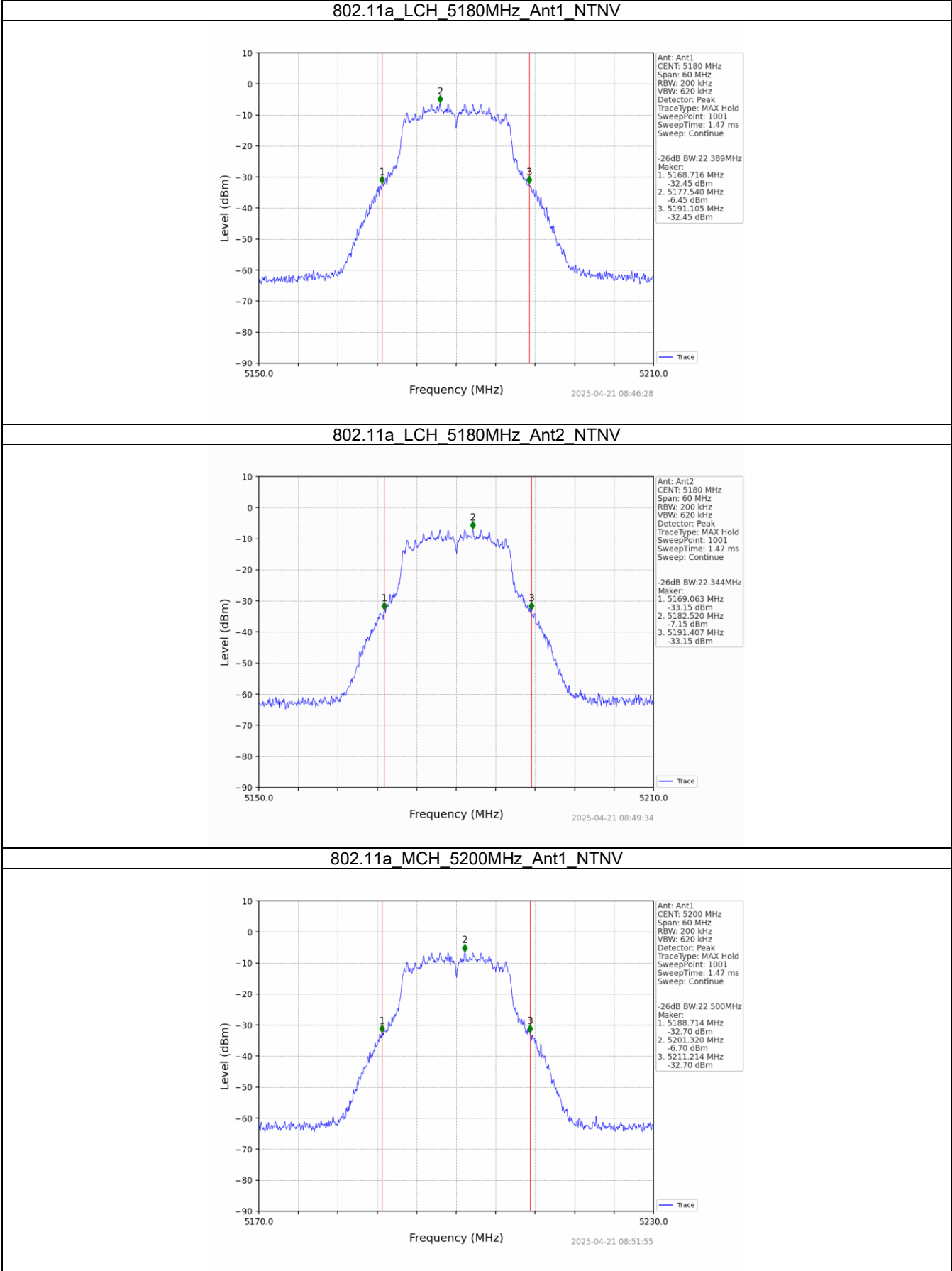


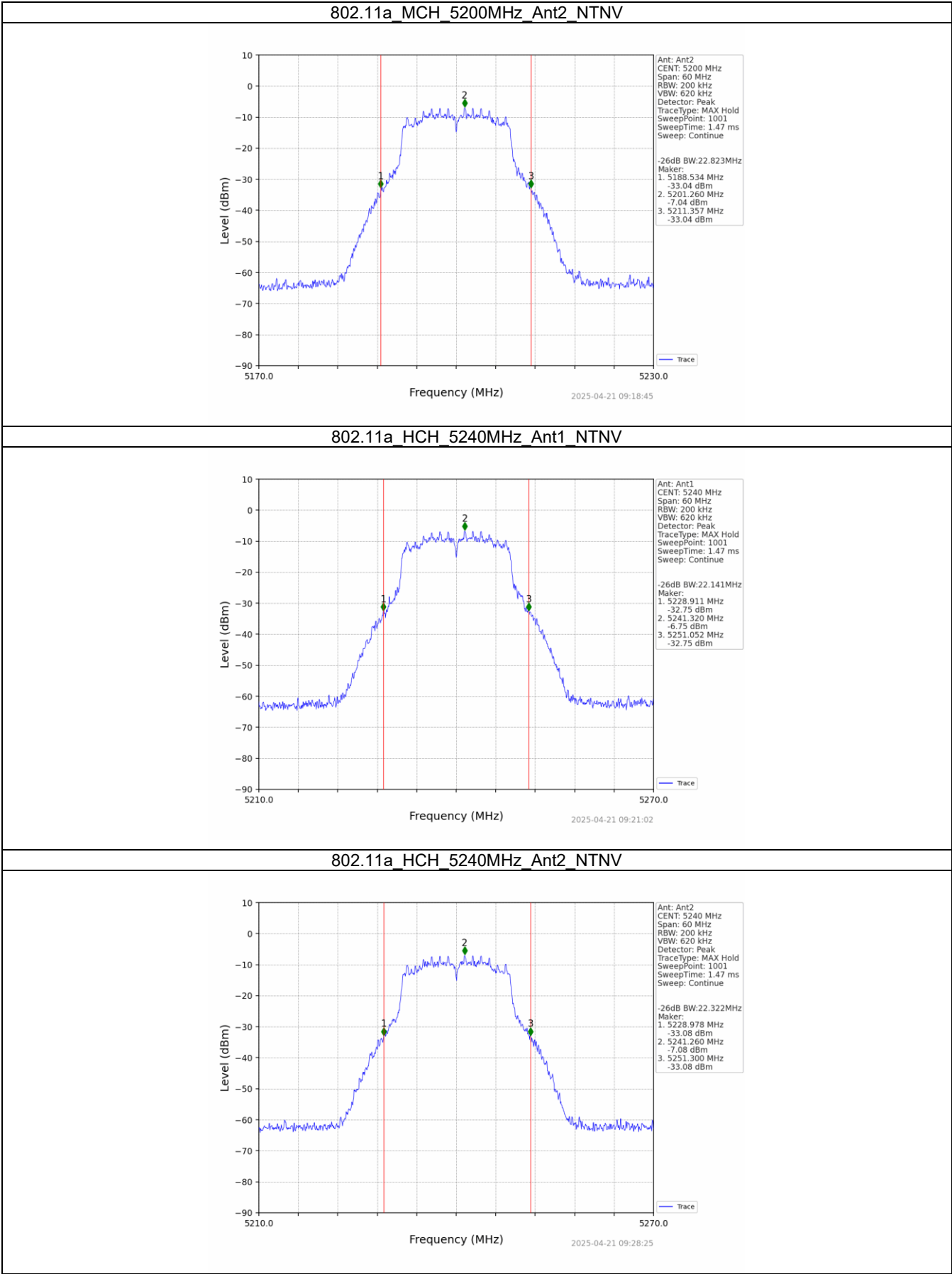
Test Results

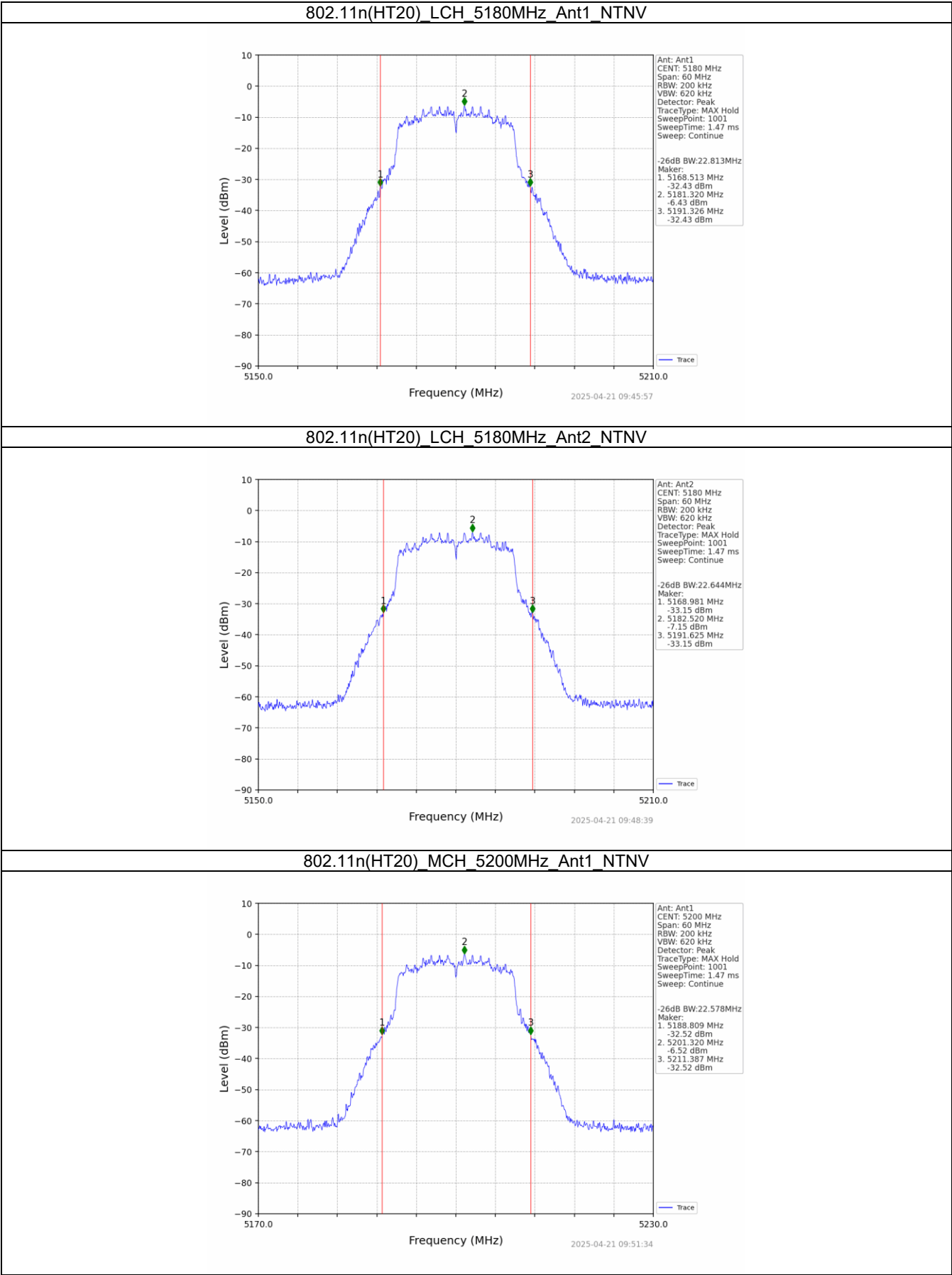
Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	22.389	/	Pass
			2	22.344	/	Pass
		5200	1	22.500	/	Pass
			2	22.823	/	Pass
		5240	1	22.141	/	Pass
			2	22.322	/	Pass
802.11n (HT20)	MIMO	5180	1	22.813	/	Pass
			2	22.644	/	Pass
		5200	1	22.578	/	Pass
			2	23.234	/	Pass
		5240	1	22.428	/	Pass
			2	23.311	/	Pass
802.11n (HT40)	MIMO	5190	1	42.873	/	Pass
			2	42.277	/	Pass
		5230	1	43.051	/	Pass
			2	43.405	/	Pass
802.11ac (VHT20)	MIMO	5180	1	22.915	/	Pass
			2	22.495	/	Pass
		5200	1	22.604	/	Pass
			2	22.504	/	Pass
		5240	1	22.537	/	Pass
			2	22.779	/	Pass
802.11ac (VHT40)	MIMO	5190	1	42.279	/	Pass
			2	42.646	/	Pass
		5230	1	42.807	/	Pass
			2	42.360	/	Pass
802.11ac (VHT80)	MIMO	5210	1	85.644	/	Pass
			2	86.309	/	Pass
802.11ax (HEW20)	MIMO	5180	1	23.861	/	Pass
			2	23.571	/	Pass
		5200	1	22.307	/	Pass
			2	22.466	/	Pass
		5240	1	22.455	/	Pass
			2	22.861	/	Pass
802.11ax (HEW40)	MIMO	5190	1	42.114	/	Pass
			2	41.780	/	Pass

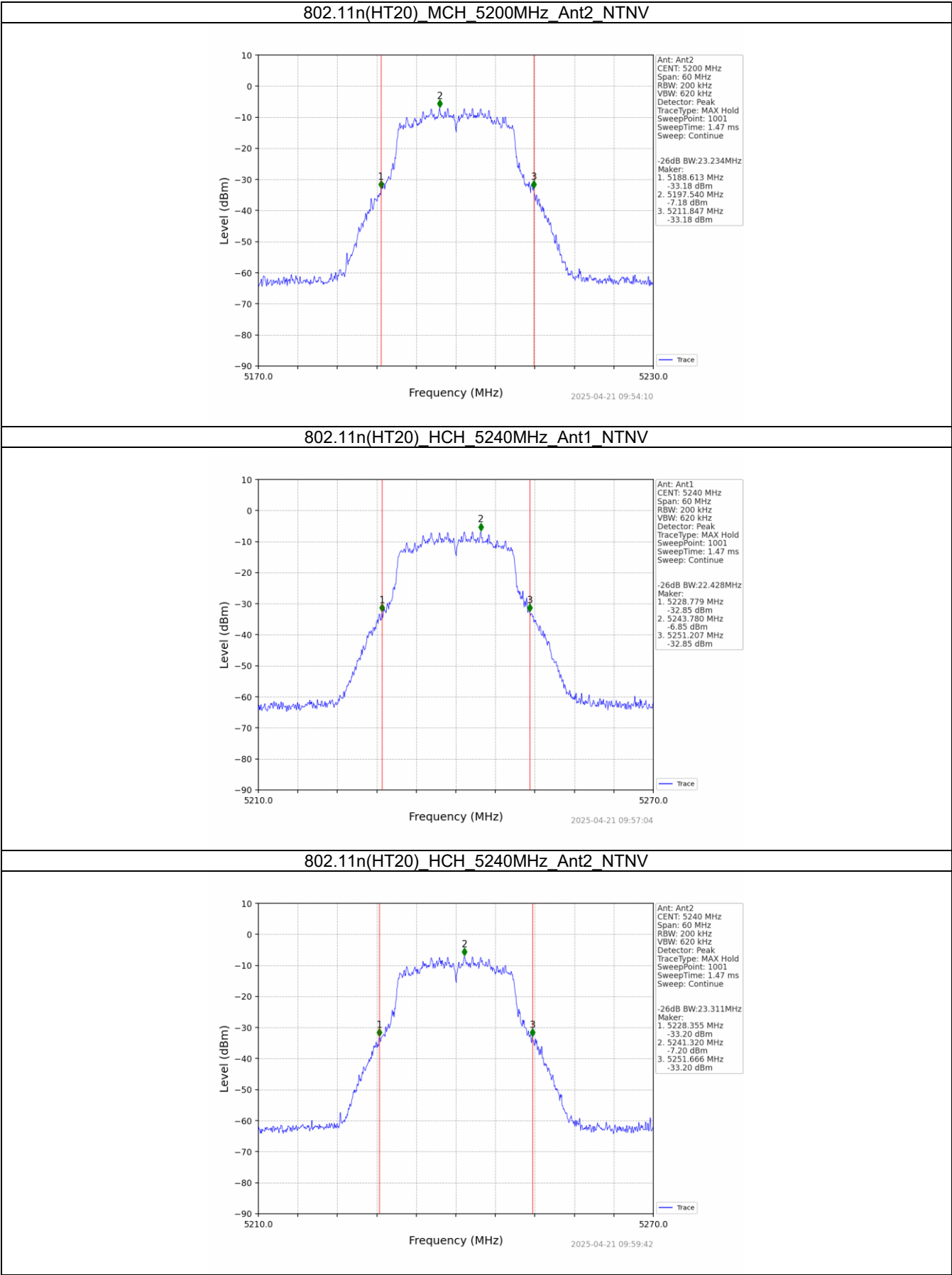
		5230	1	44.011	/	Pass
			2	43.064	/	Pass
802.11ax (HEW80)	MIMO	5210	1	83.181	/	Pass
			2	83.136	/	Pass

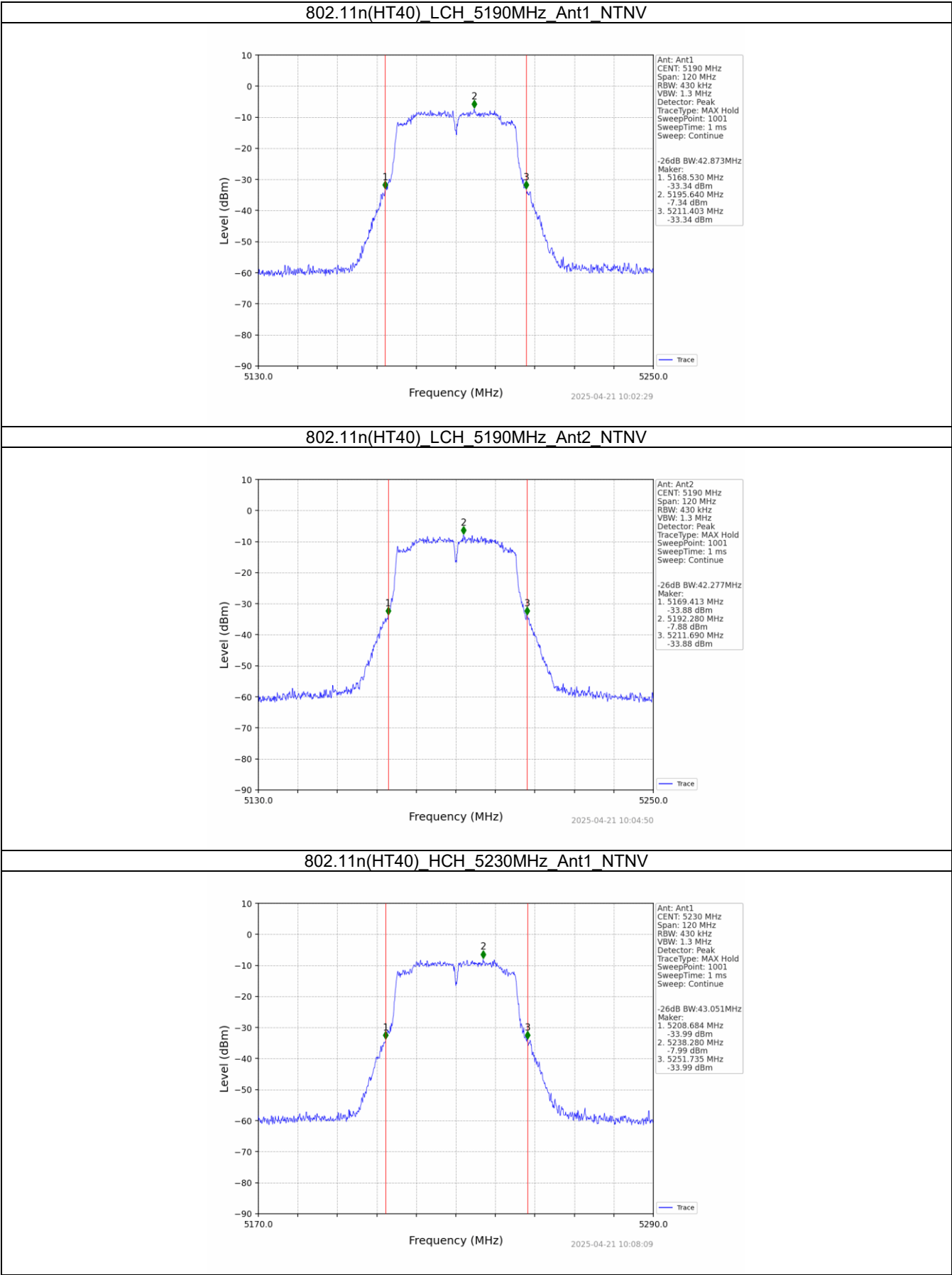
Test plot as follows:

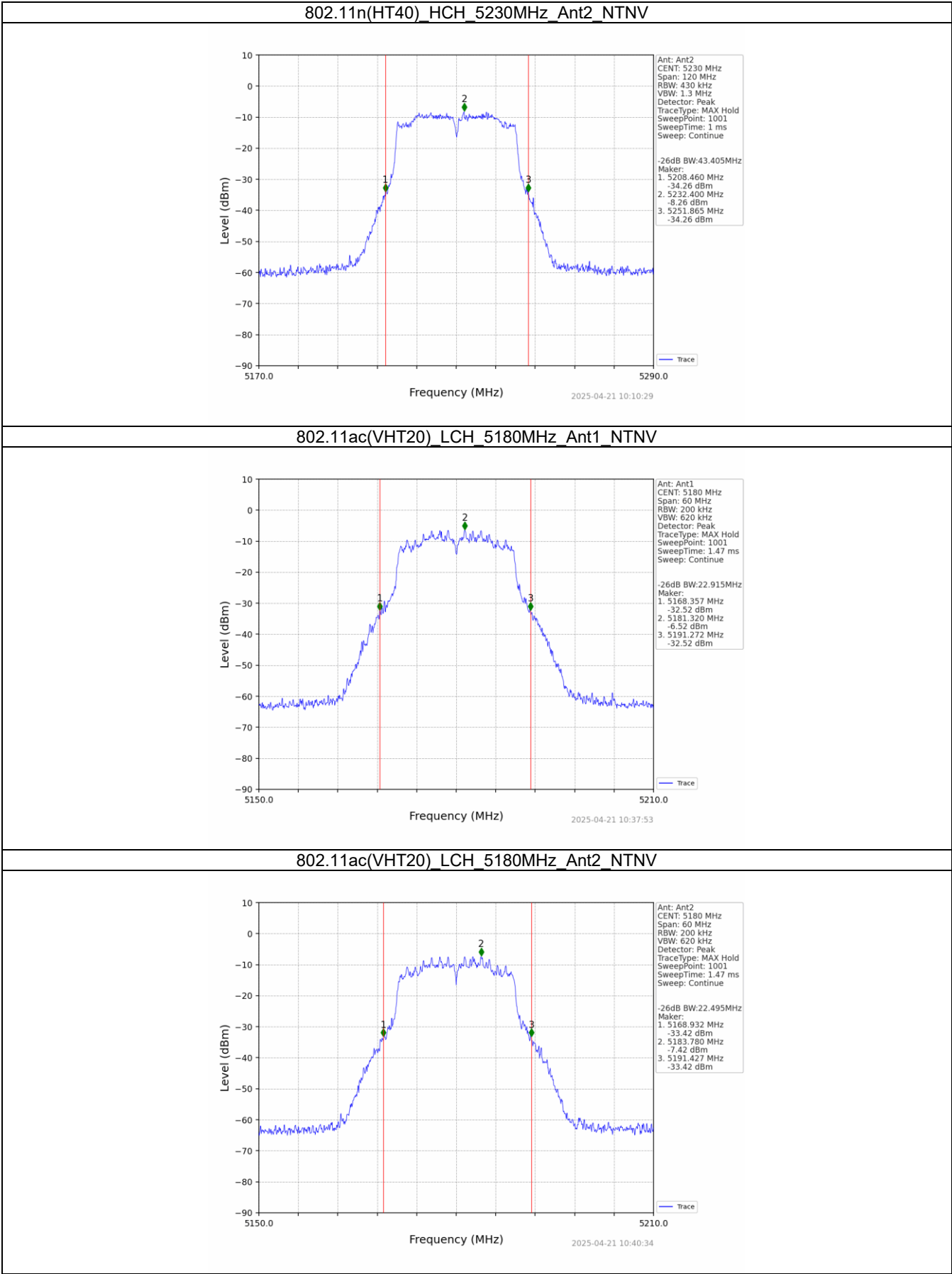


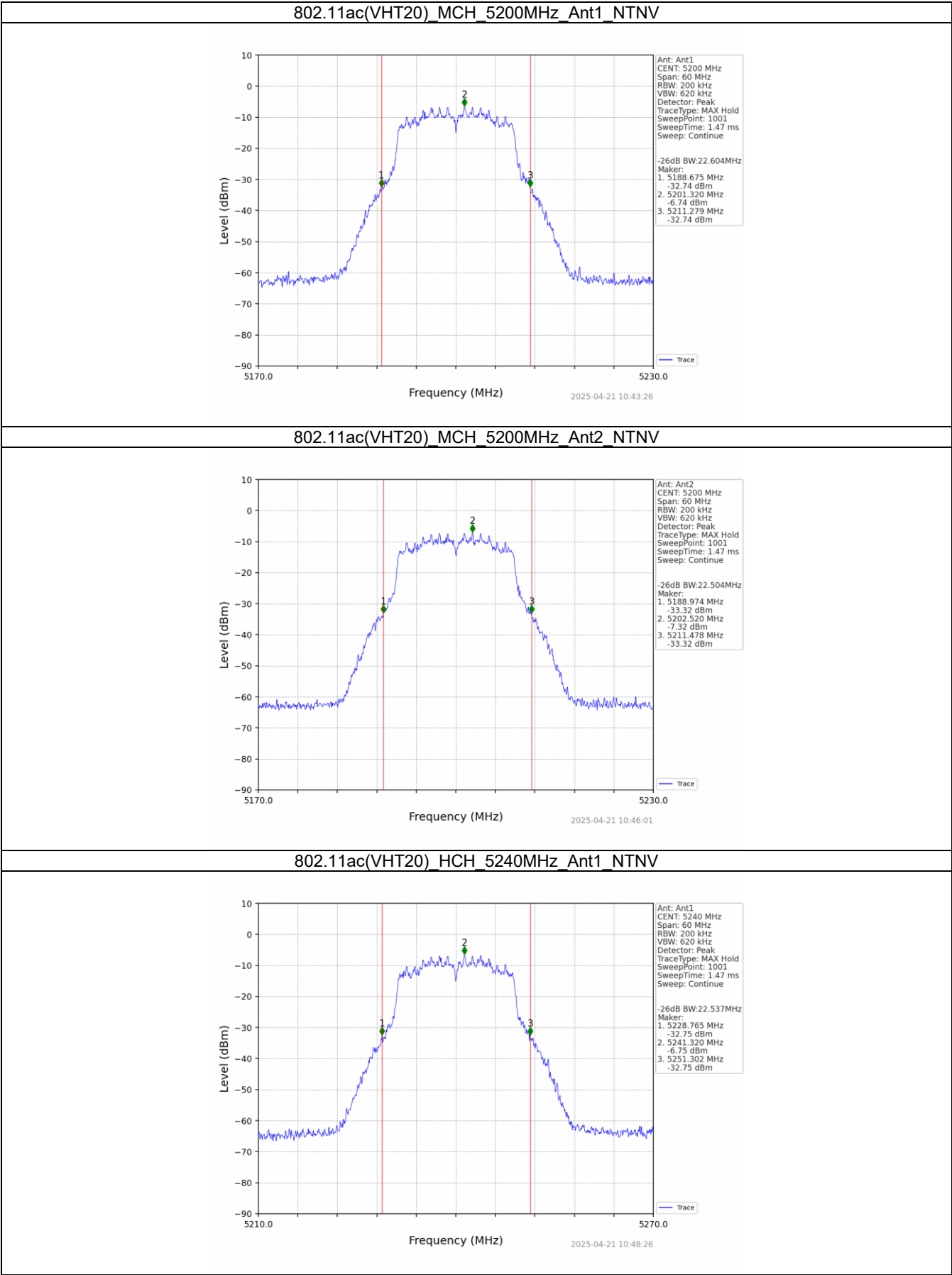


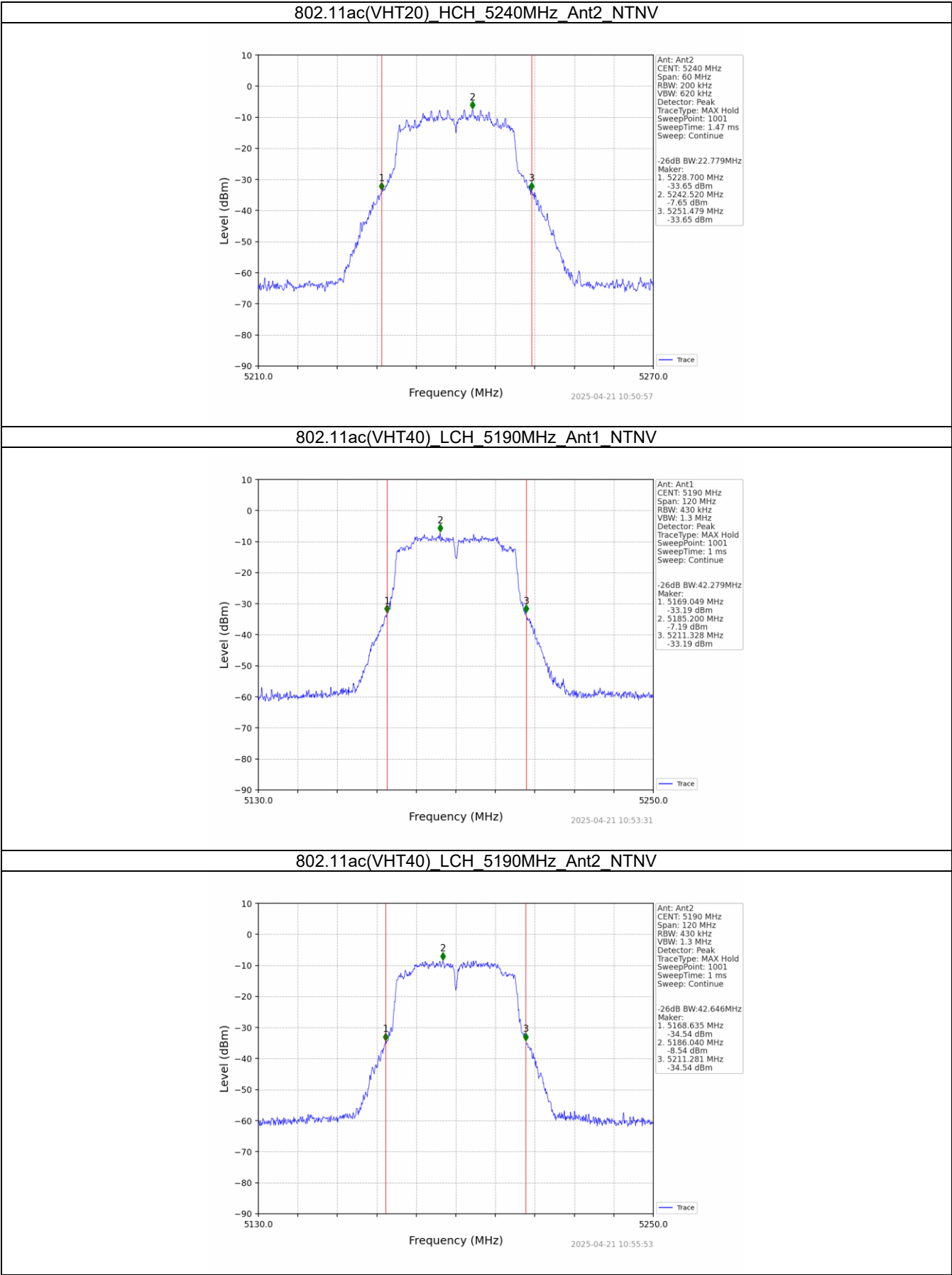


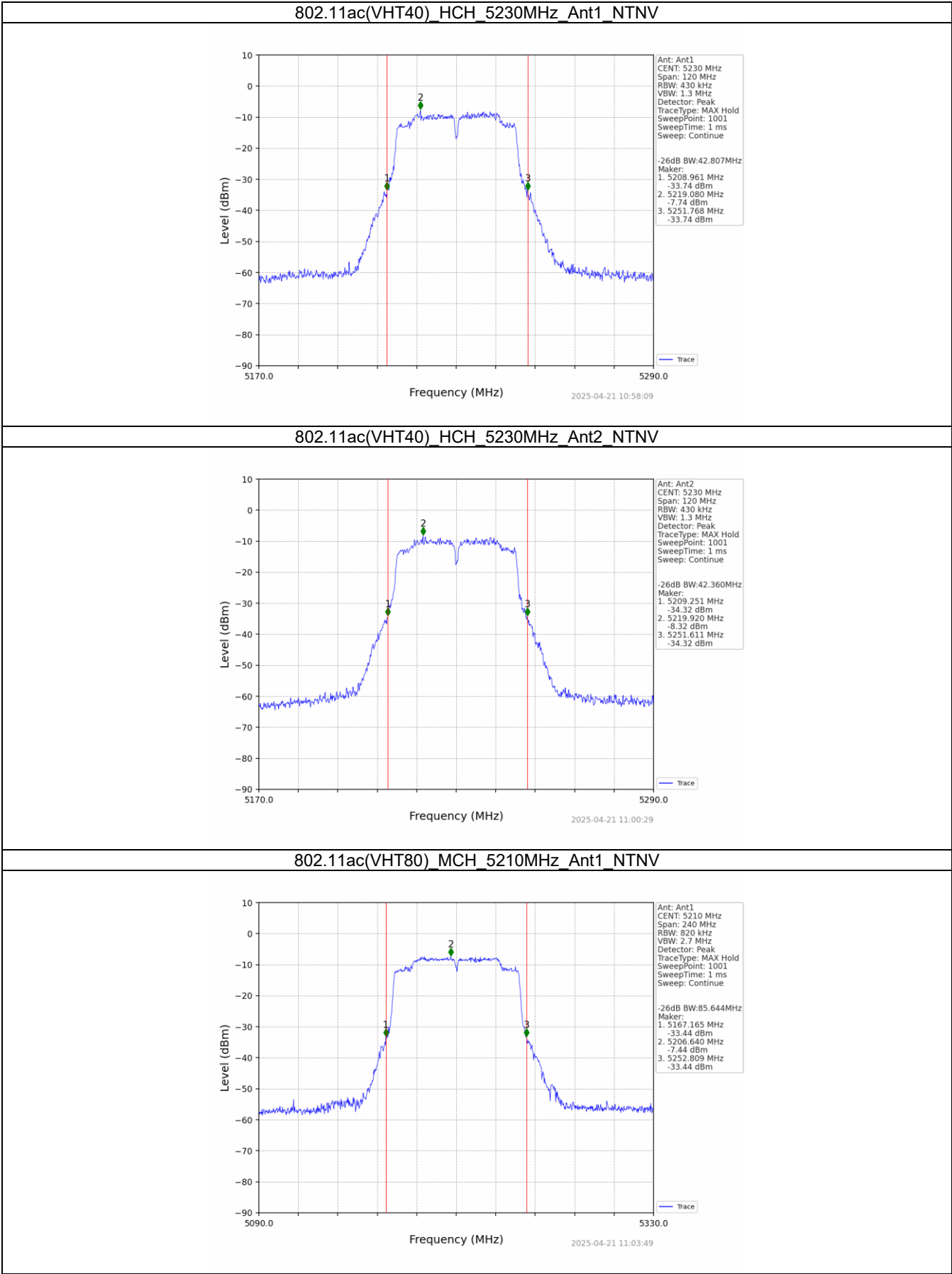


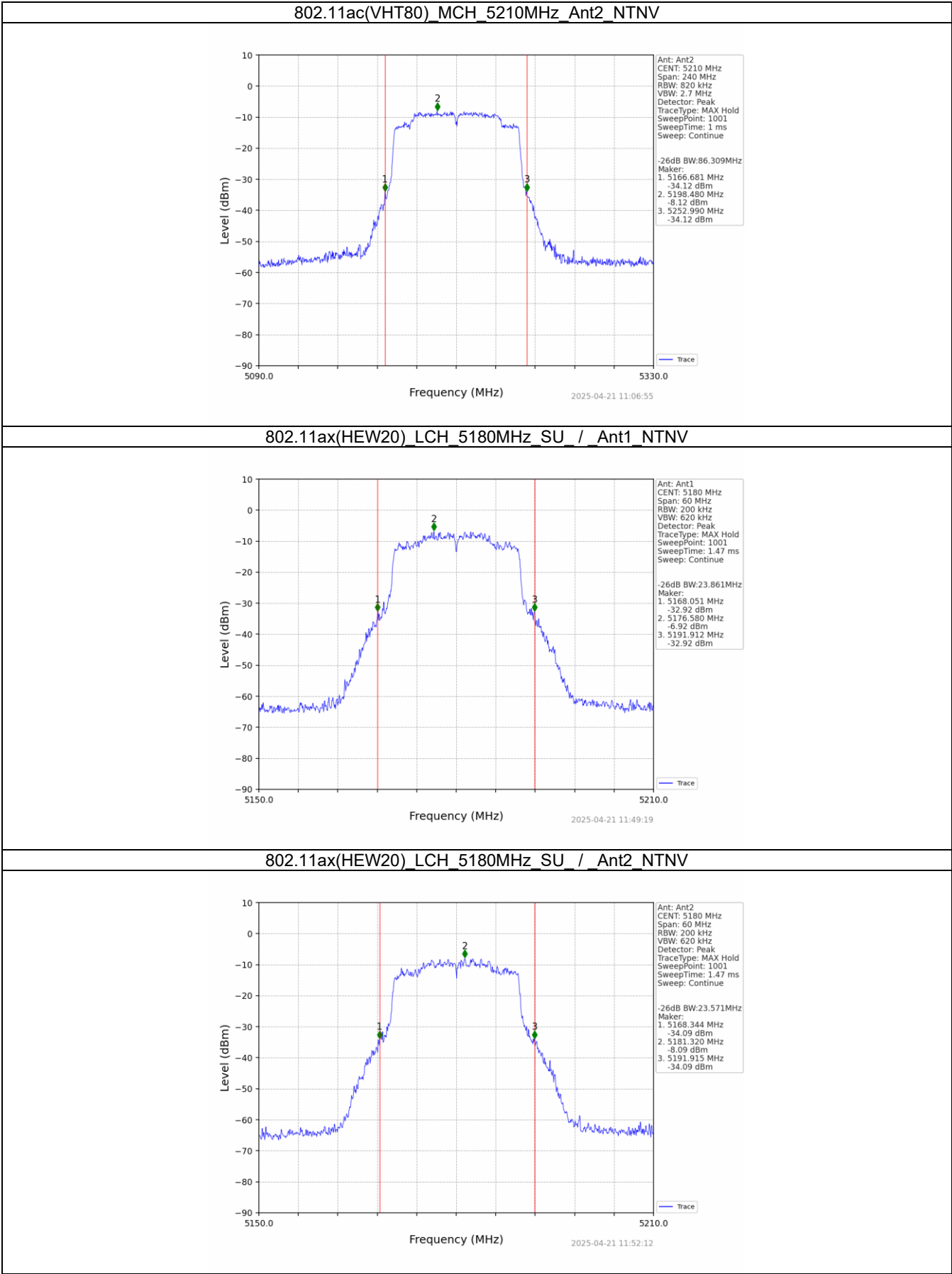


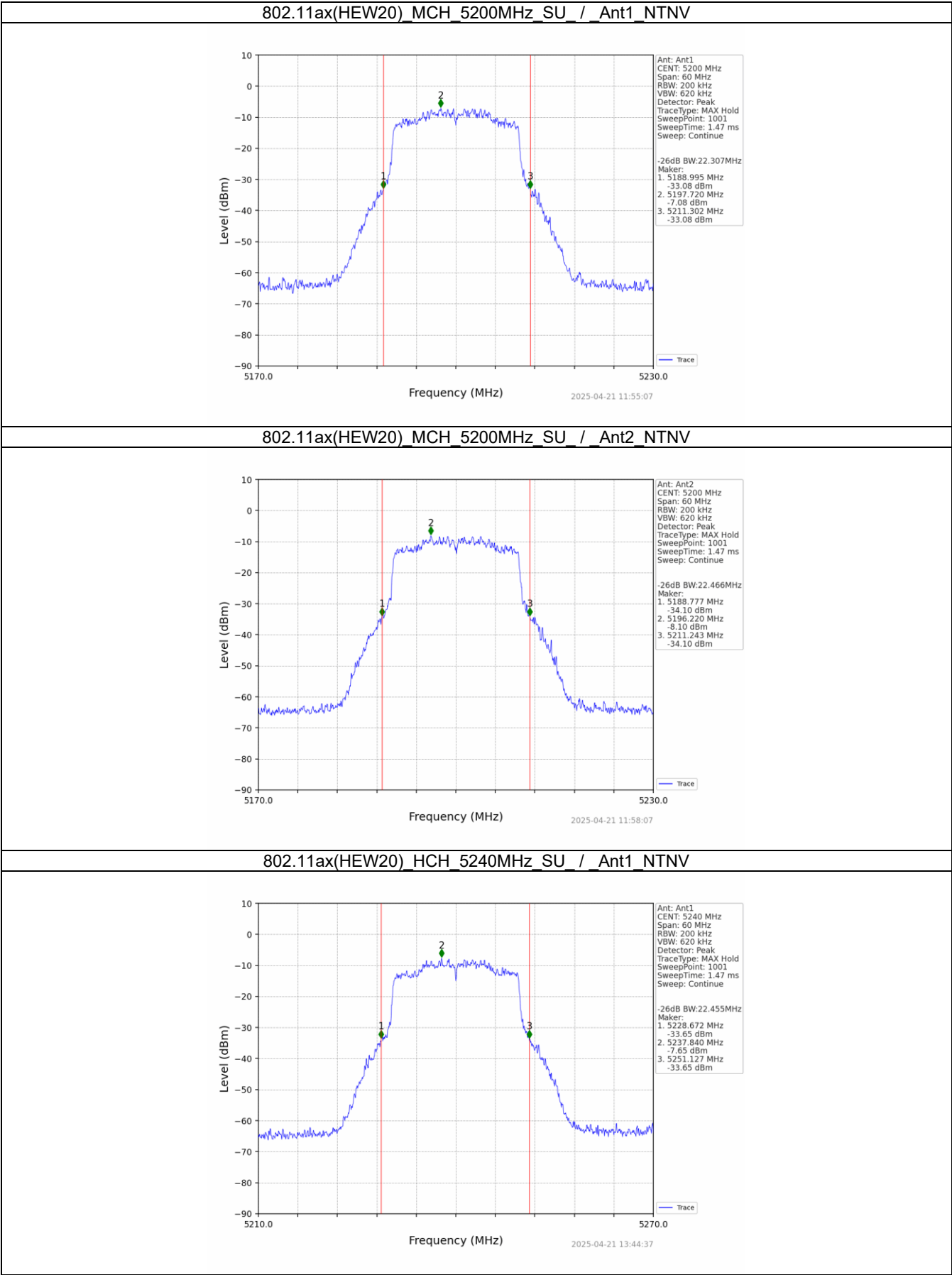


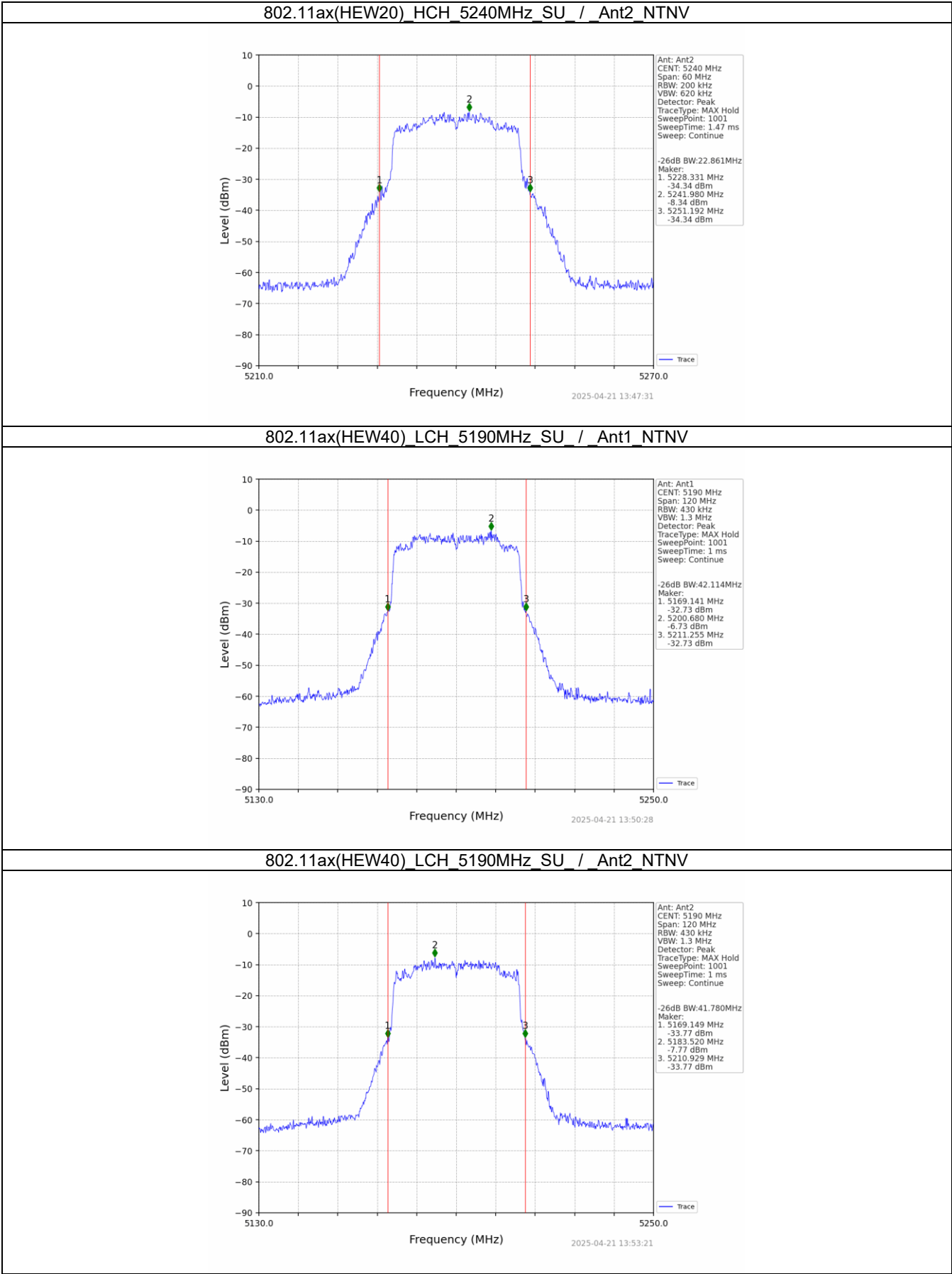


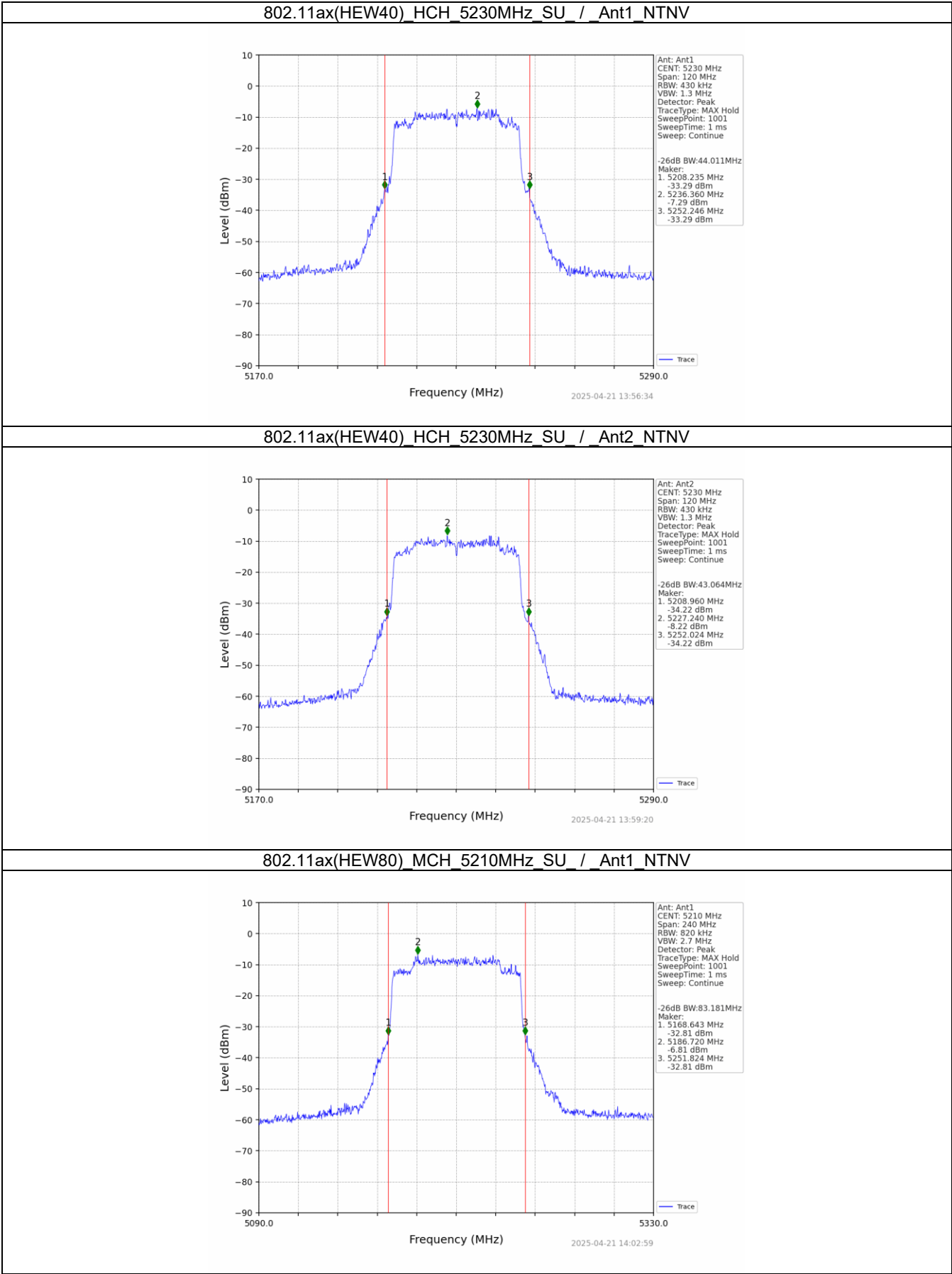


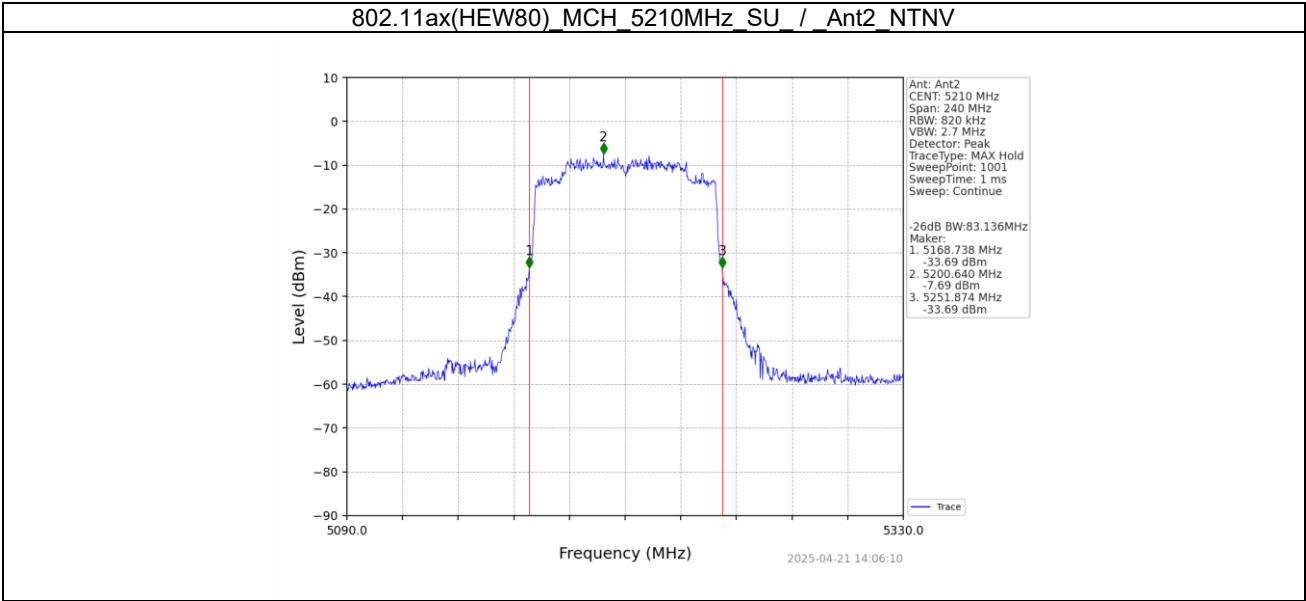












4.6 Minimum Emission Bandwidth (6dB Bandwidth)

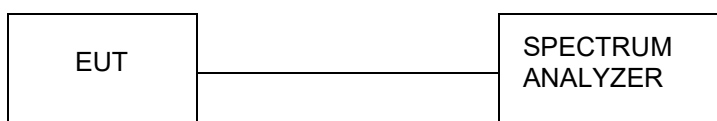
Limit

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

Test Procedure

1. Set resolution bandwidth (RBW) = 100 kHz
2. Set the video bandwidth 3 x RBW.
3. Detector = Peak.
4. Trace mode = Max hold.
5. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Test Configuration



Test Results

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	16.366	>=0.5	Pass
			2	16.368	>=0.5	Pass
		5785	1	16.361	>=0.5	Pass
			2	16.380	>=0.5	Pass
		5825	1	16.365	>=0.5	Pass
			2	16.371	>=0.5	Pass
802.11n (HT20)	MIMO	5745	1	17.585	>=0.5	Pass
			2	17.607	>=0.5	Pass
		5785	1	17.618	>=0.5	Pass
			2	17.596	>=0.5	Pass
		5825	1	17.605	>=0.5	Pass
			2	17.596	>=0.5	Pass
802.11n (HT40)	MIMO	5755	1	36.362	>=0.5	Pass
			2	36.354	>=0.5	Pass
		5795	1	36.365	>=0.5	Pass
			2	36.368	>=0.5	Pass
			1	36.365	>=0.5	Pass
			2	36.368	>=0.5	Pass
802.11ac (VHT20)	MIMO	5745	1	17.603	>=0.5	Pass
			2	17.601	>=0.5	Pass
		5785	1	17.622	>=0.5	Pass
			2	17.604	>=0.5	Pass
		5825	1	17.608	>=0.5	Pass
			2	17.615	>=0.5	Pass
802.11ac (VHT40)	MIMO	5755	1	36.334	>=0.5	Pass
			2	36.342	>=0.5	Pass
		5795	1	36.370	>=0.5	Pass
			2	36.371	>=0.5	Pass
			1	36.370	>=0.5	Pass
			2	36.371	>=0.5	Pass
802.11ac (VHT80)	MIMO	5775	1	75.085	>=0.5	Pass
			2	75.038	>=0.5	Pass
802.11ax (HEW20)	MIMO	5745	1	18.795	>=0.5	Pass
			2	18.882	>=0.5	Pass
		5785	1	18.723	>=0.5	Pass
			2	18.624	>=0.5	Pass
		5825	1	18.867	>=0.5	Pass
			2	18.566	>=0.5	Pass
802.11ax (HEW40)	MIMO	5755	1	37.804	>=0.5	Pass
			2	37.695	>=0.5	Pass
		5795	1	37.740	>=0.5	Pass

			2	37.818	≥ 0.5	Pass
802.11ax (HEW80)	MIMO	5775	1	75.115	≥ 0.5	Pass
			2	75.069	≥ 0.5	Pass

Test plot as follows:

