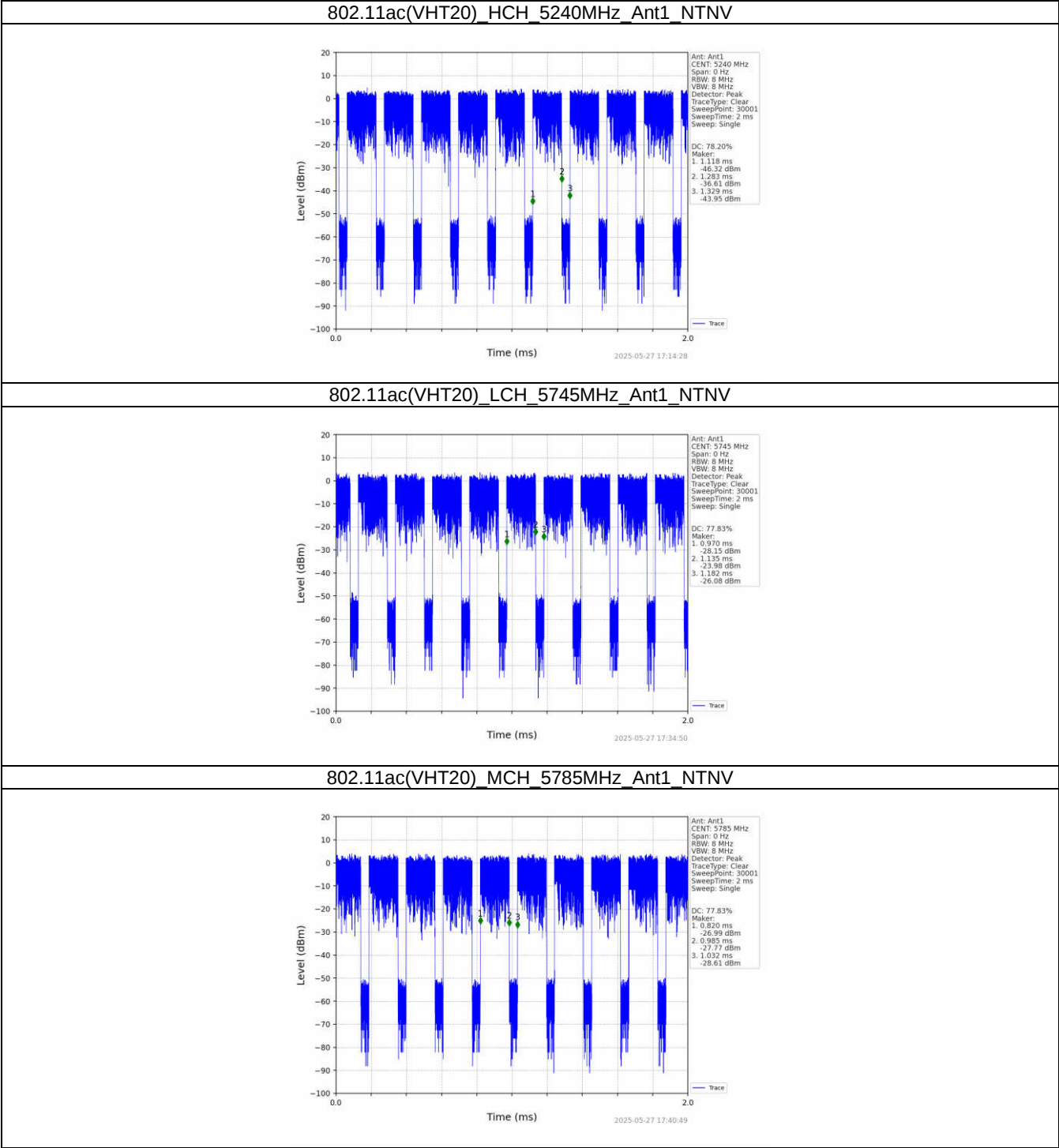
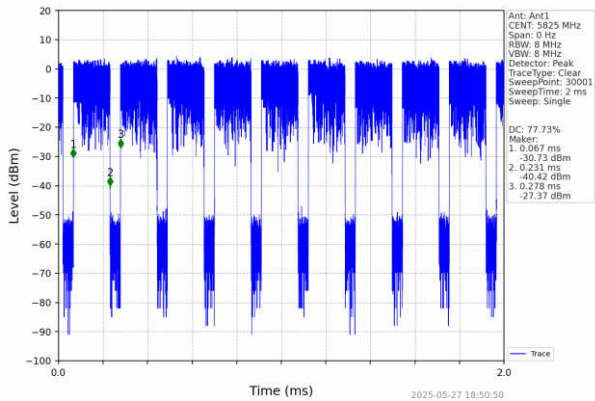
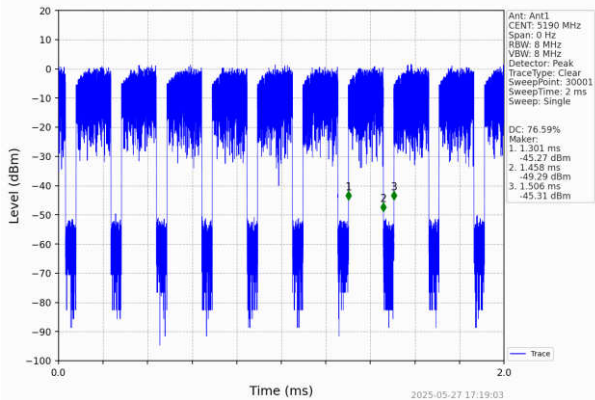




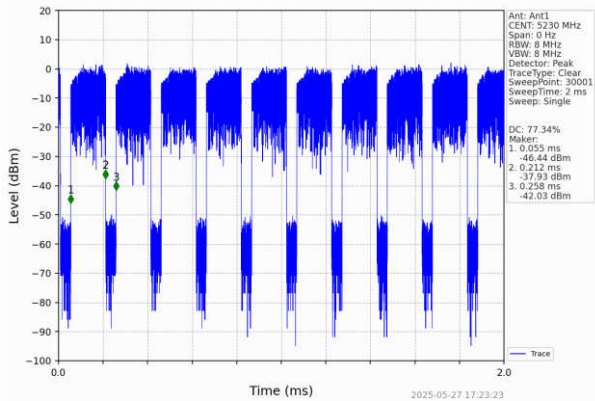
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV

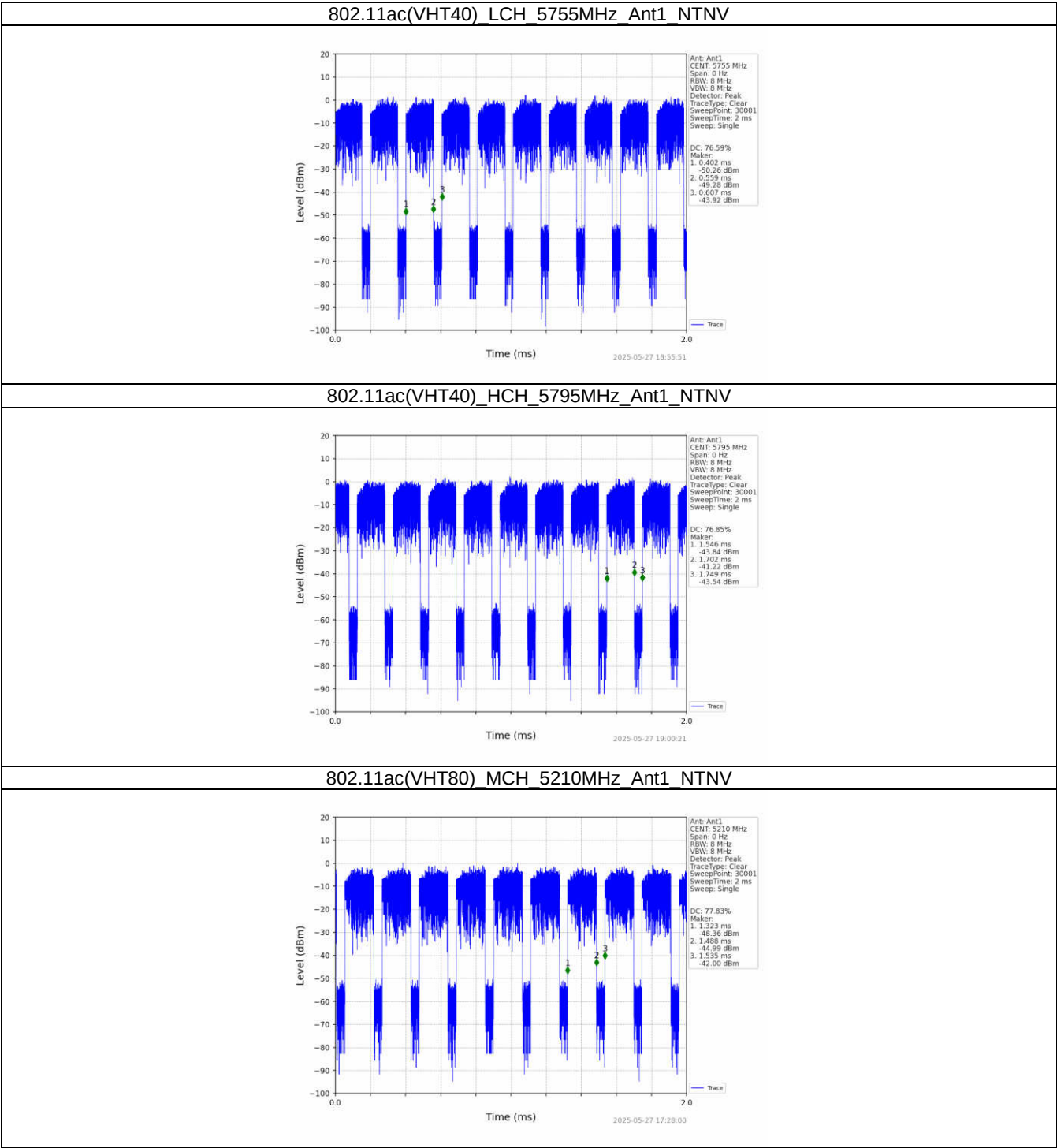


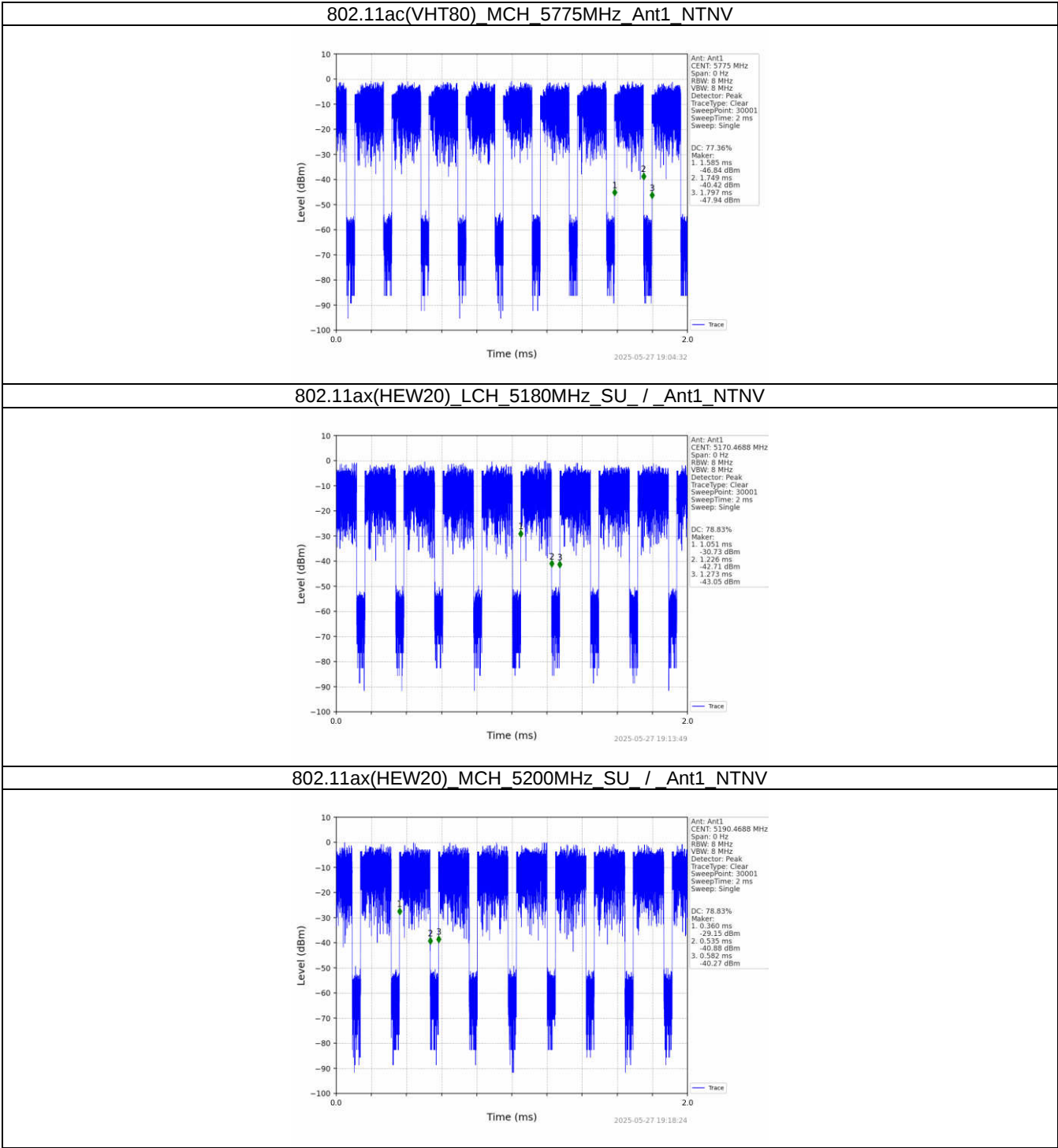
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV

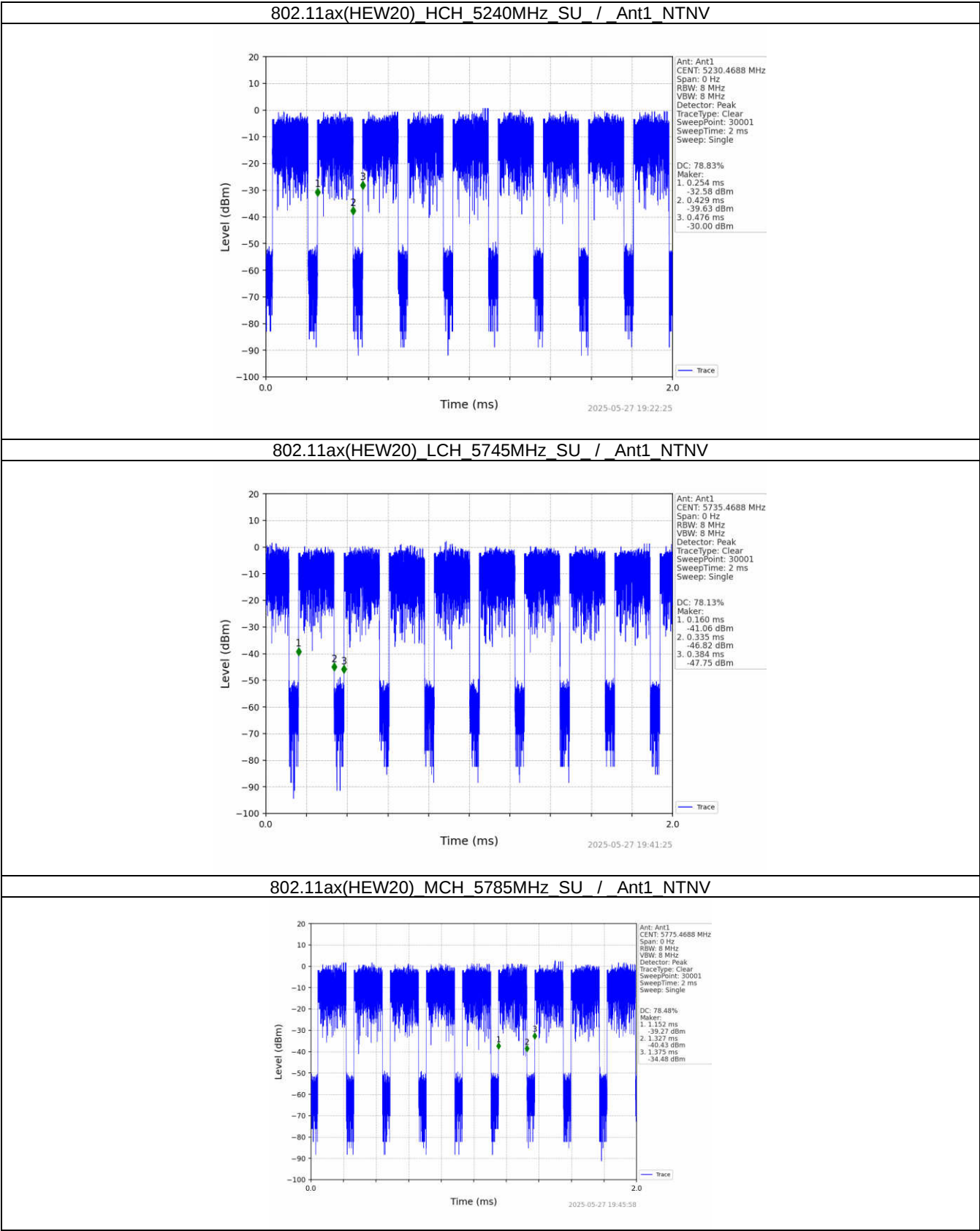


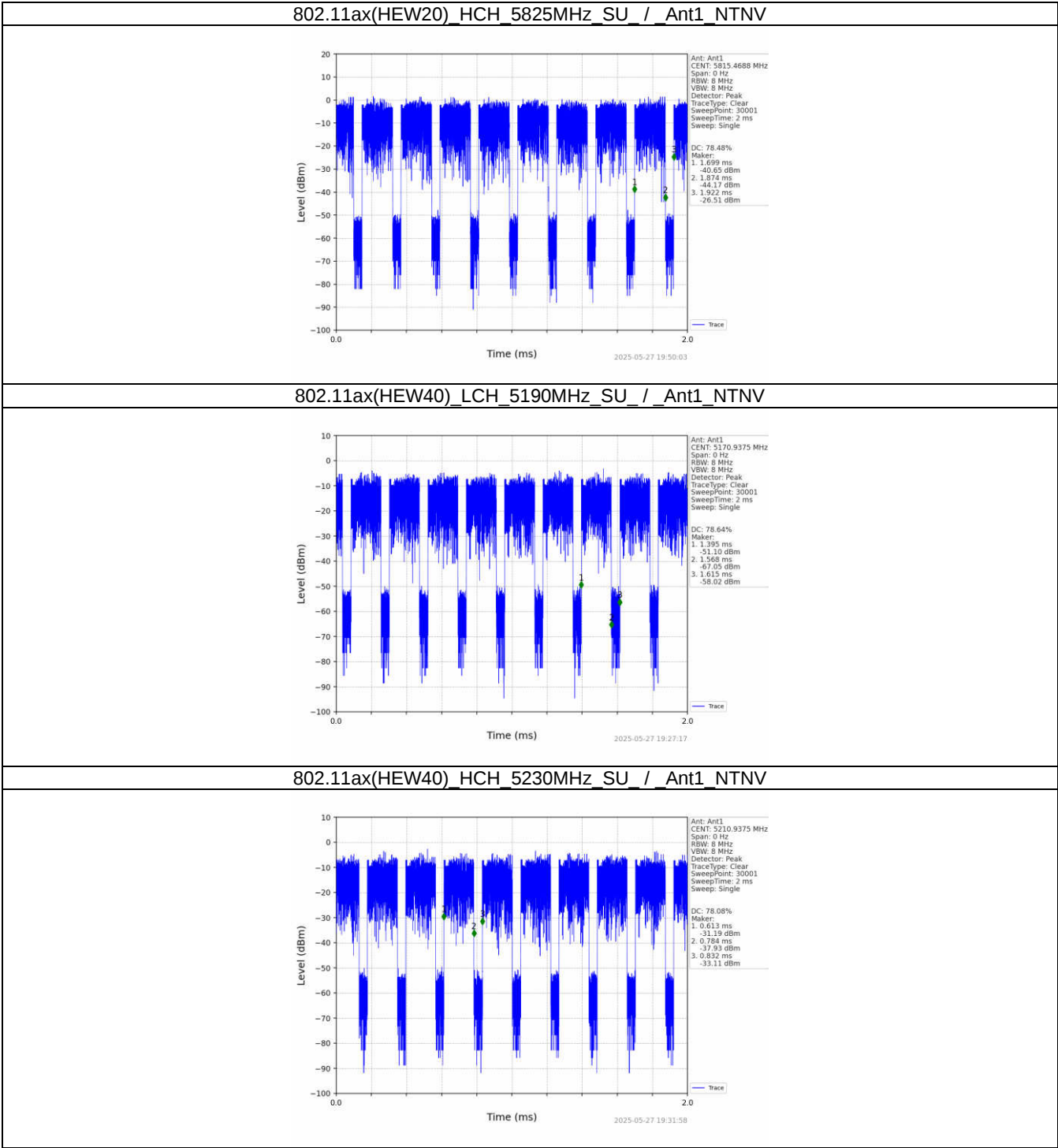
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



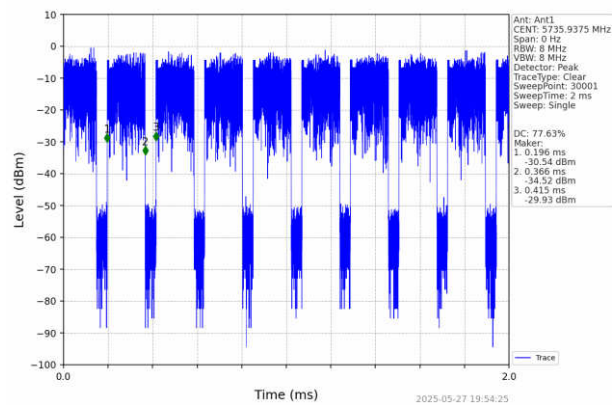




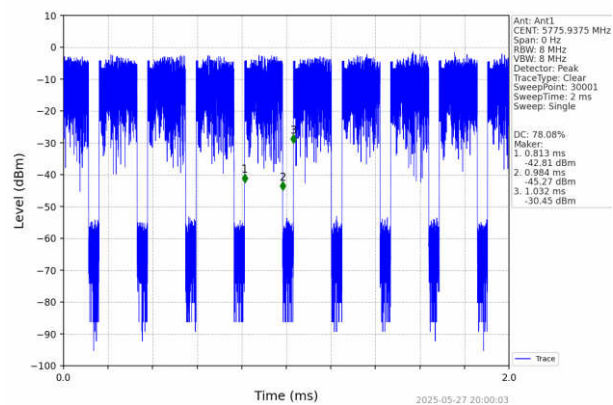




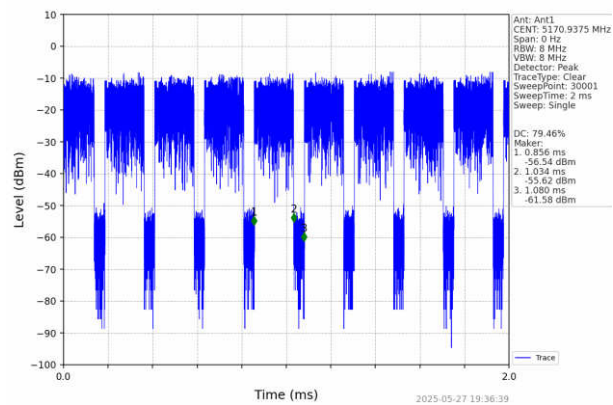
802.11ax(HEW40)_LCH_5755MHz_SU_ / _Ant1_NTNV



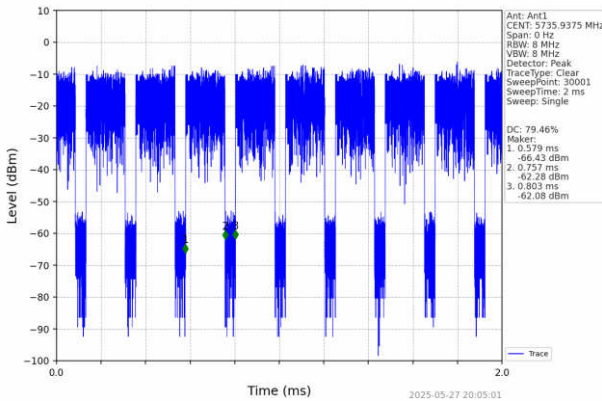
802.11ax(HEW40)_HCH_5795MHz_SU_ / _Ant1_NTNV



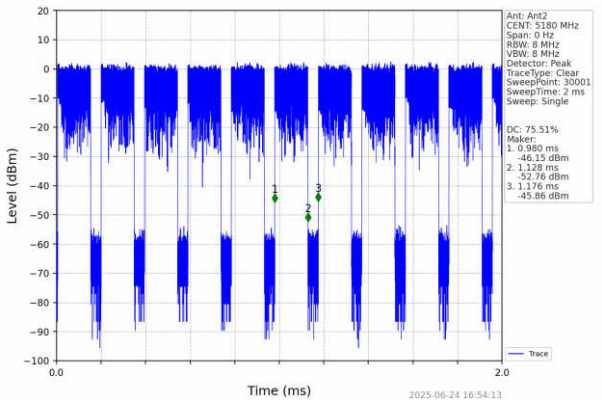
802.11ax(HEW80)_MCH_5210MHz_SU_ / _Ant1_NTNV



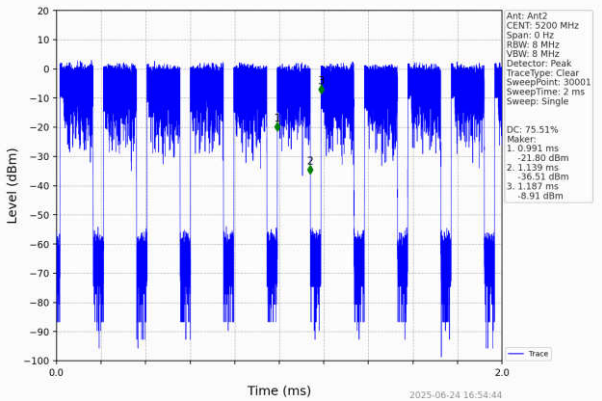
802.11ax(HEW80) MCH_5775MHz_SU / Ant1 NTN

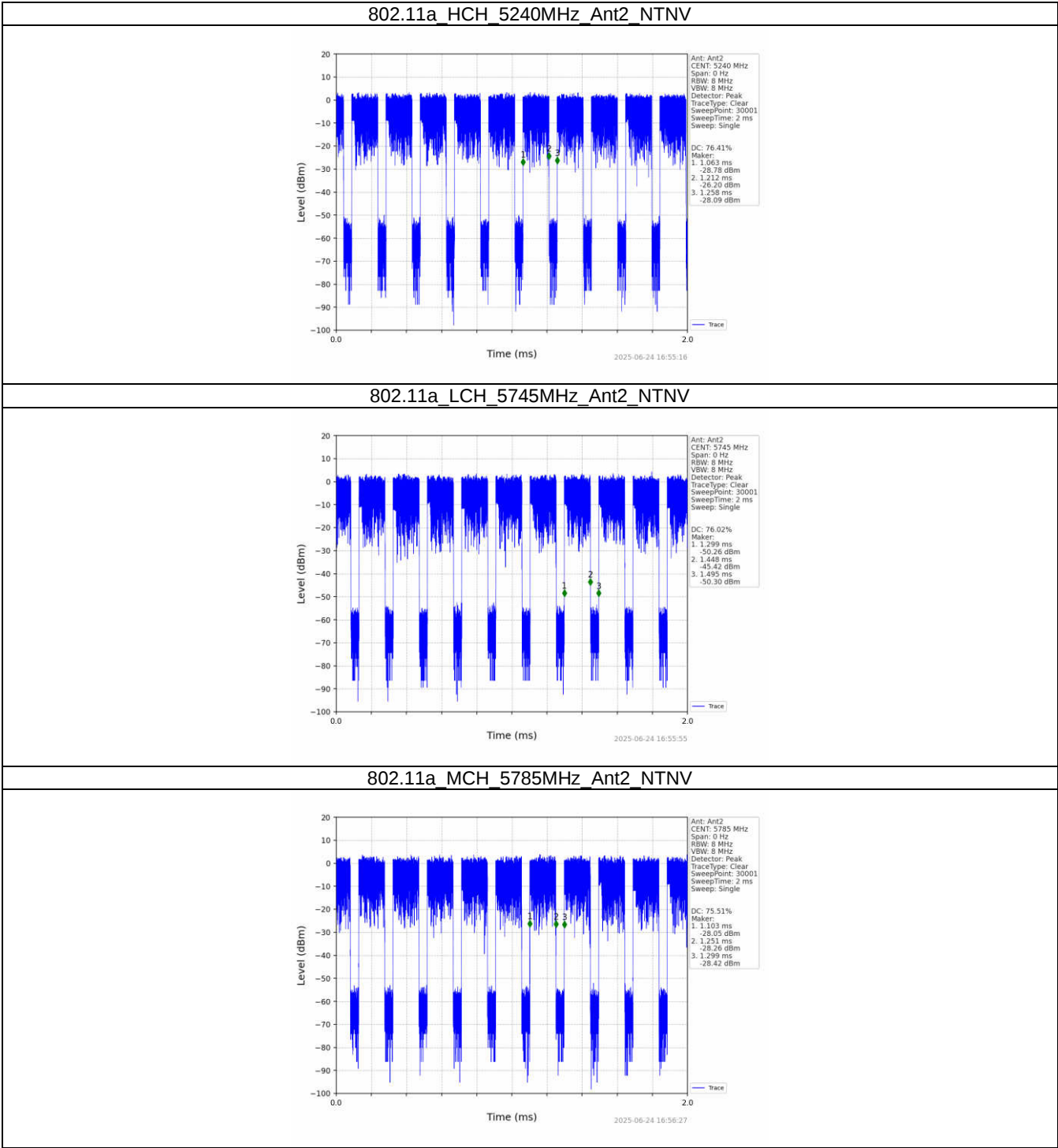


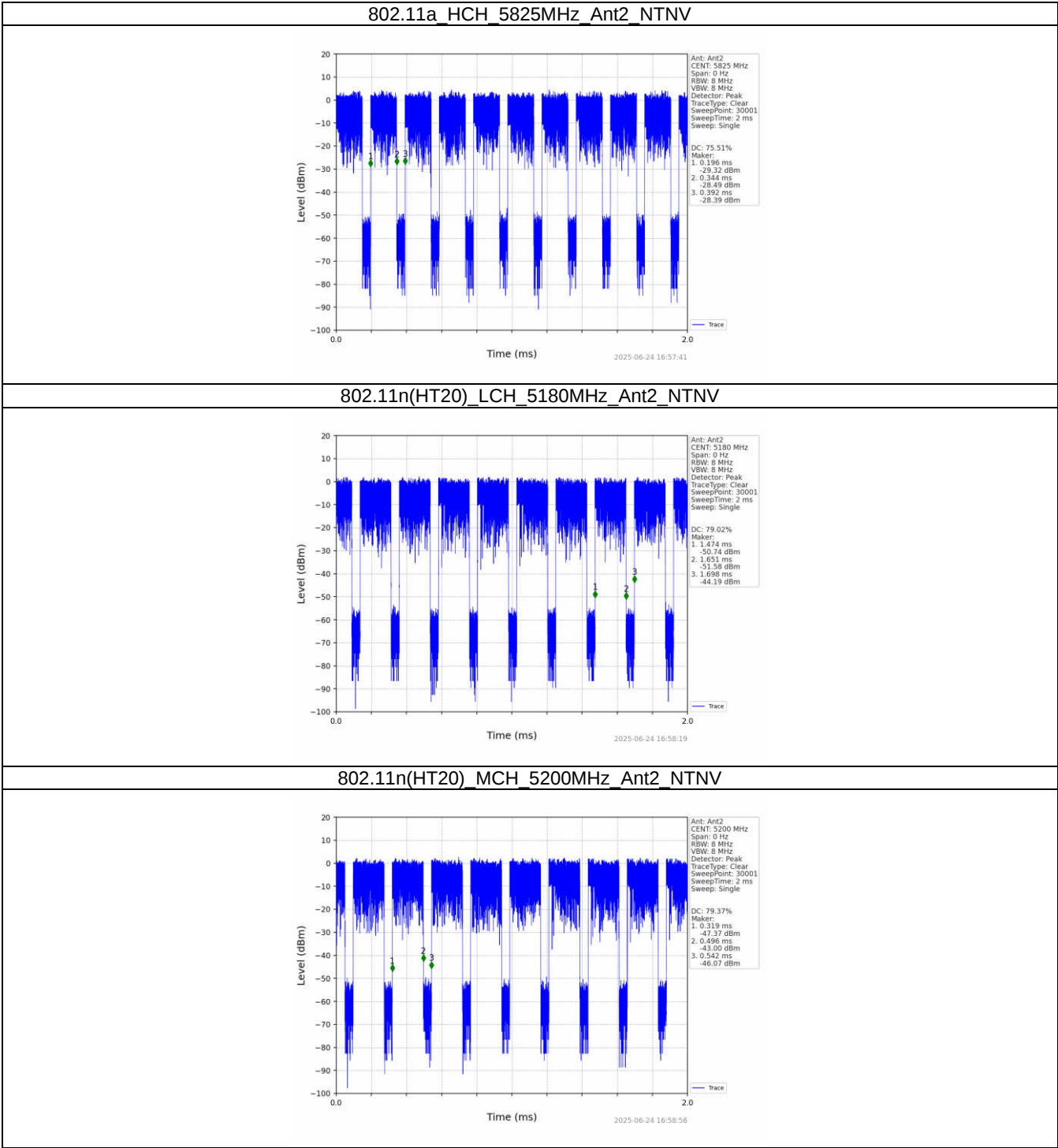
802.11a_LCH_5180MHz_Ant2 NTN



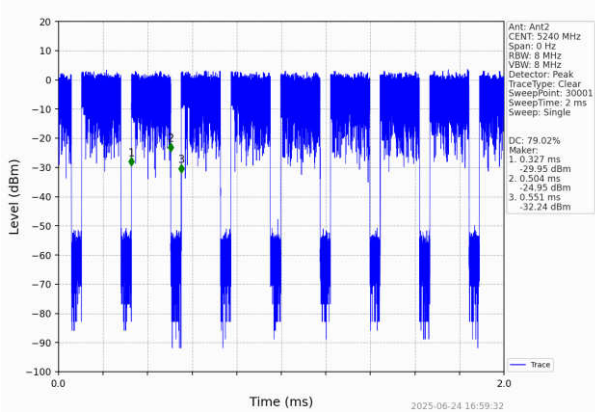
802.11a MCH_5200MHz_Ant2 NTN



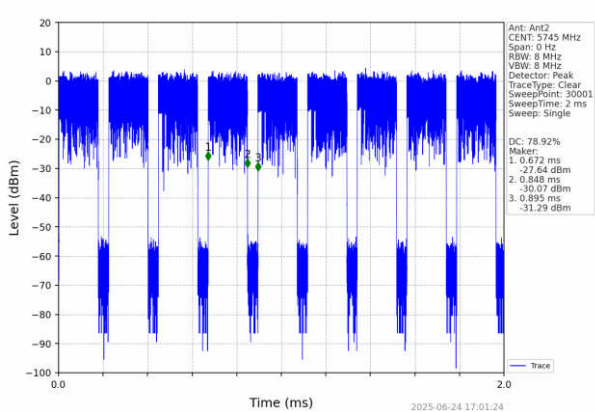




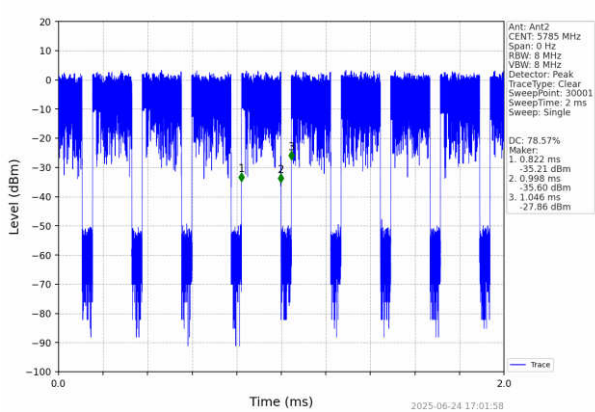
802.11n(HT20) HCH 5240MHz Ant2 NTN

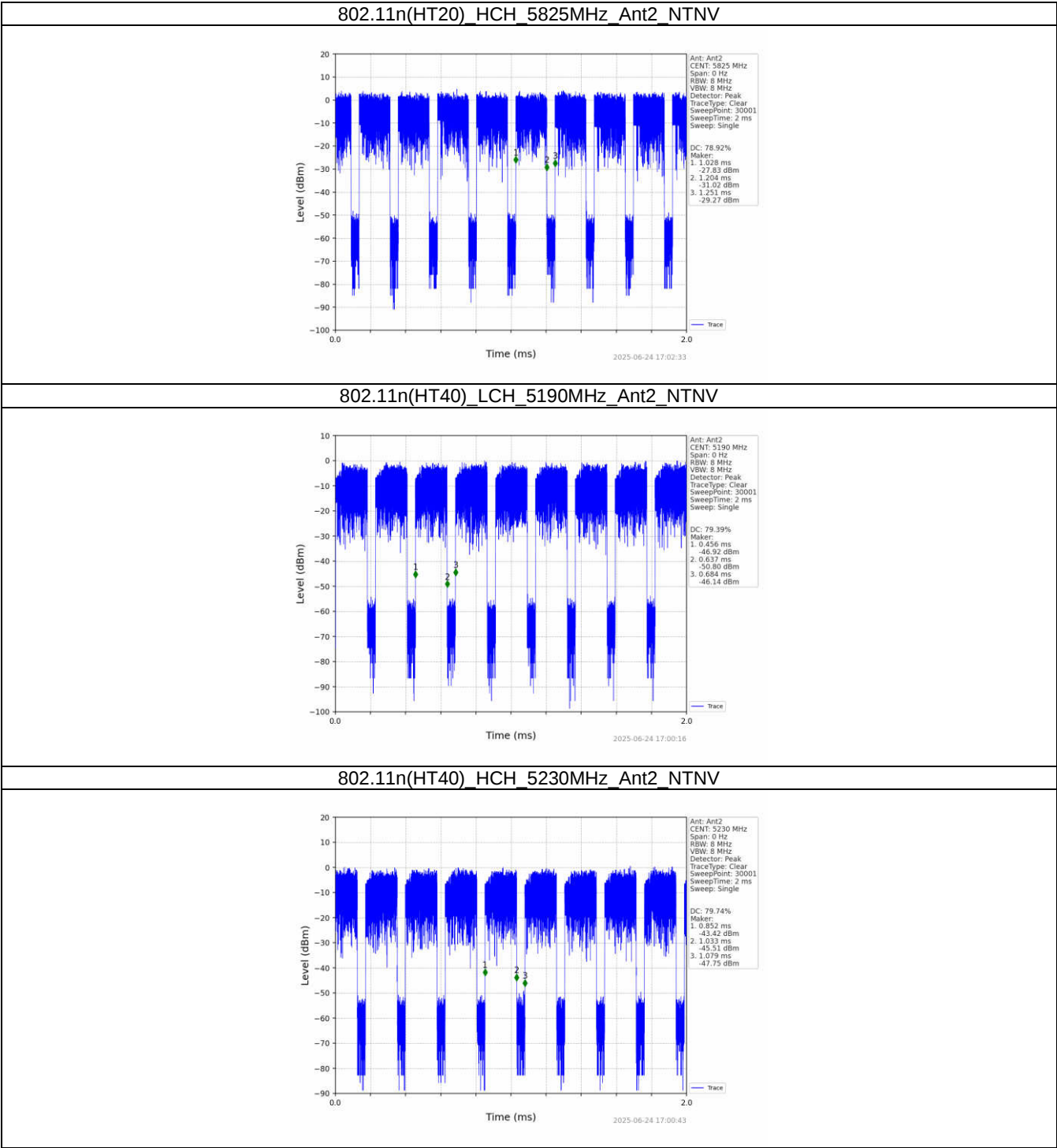


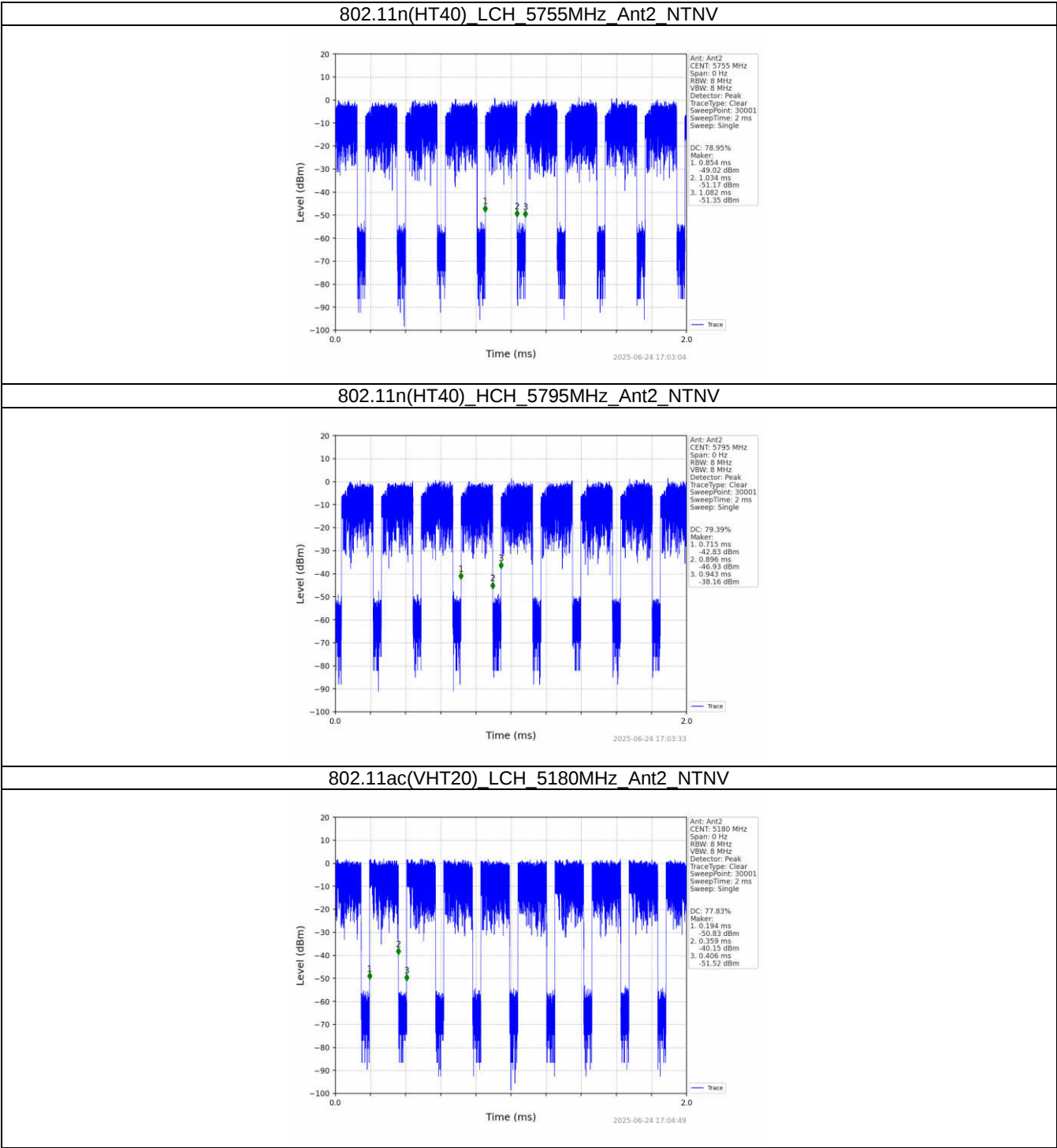
802.11n(HT20) LCH 5745MHz Ant2 NTN

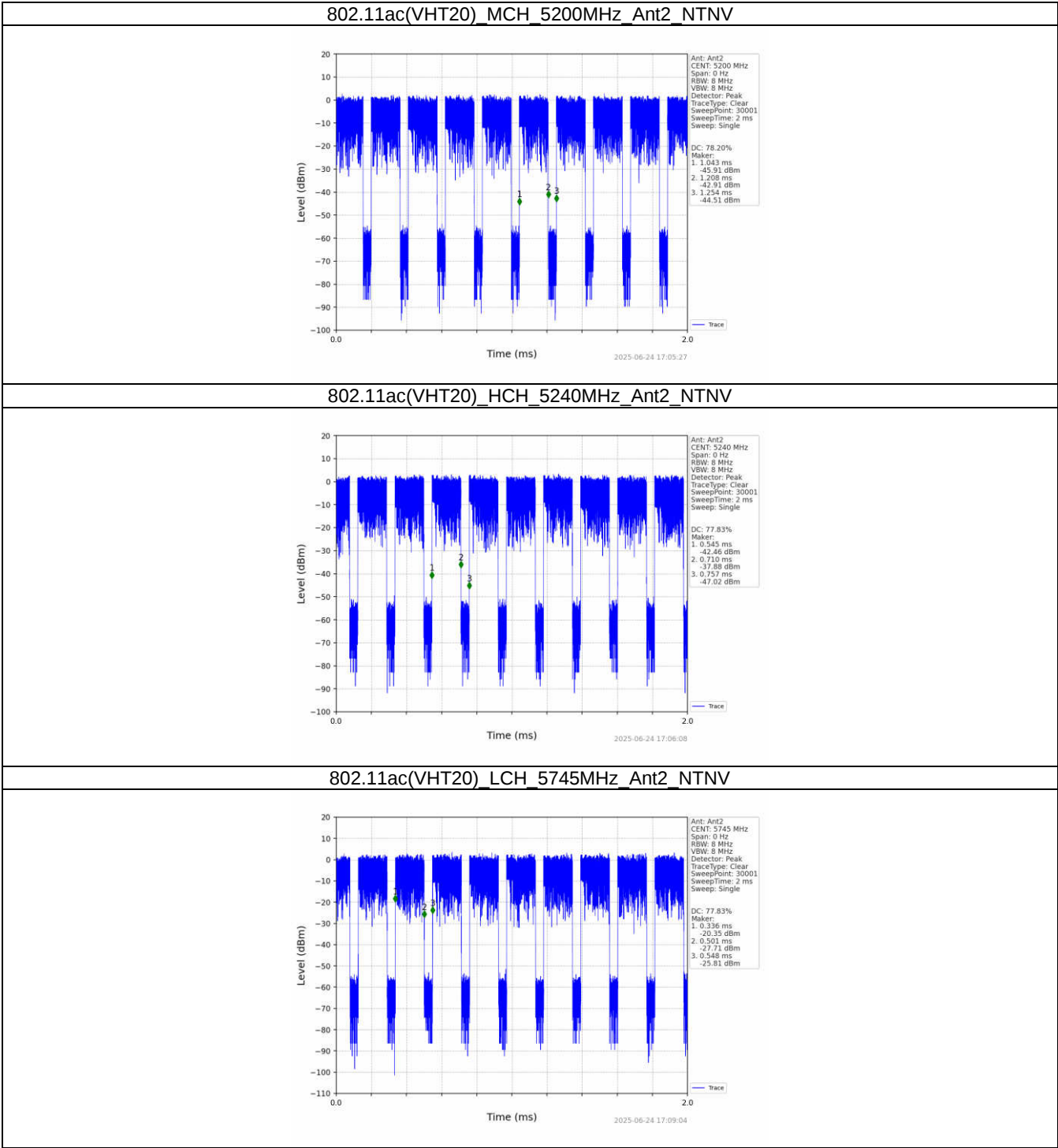


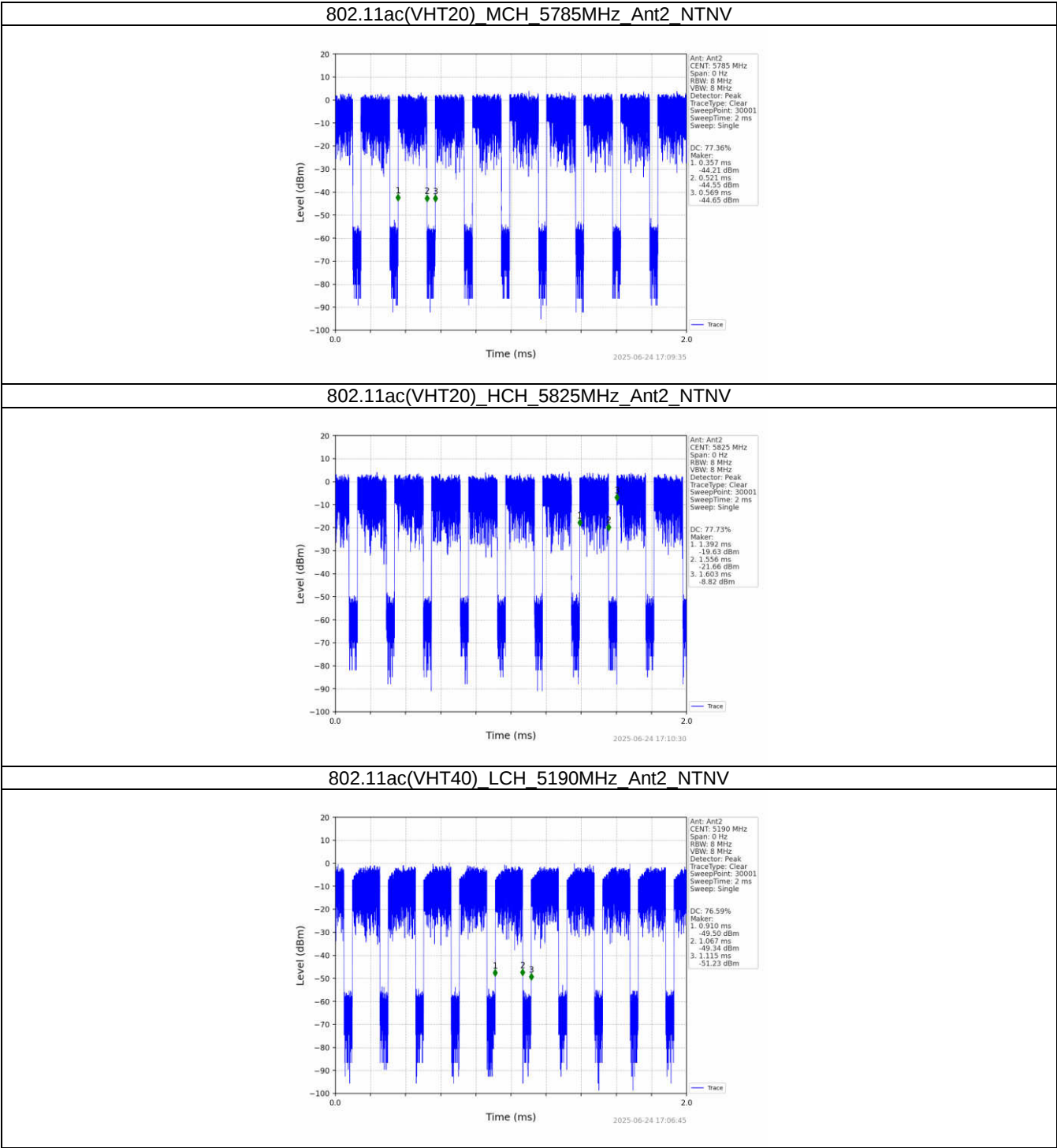
802.11n(HT20) MCH 5785MHz Ant2 NTN



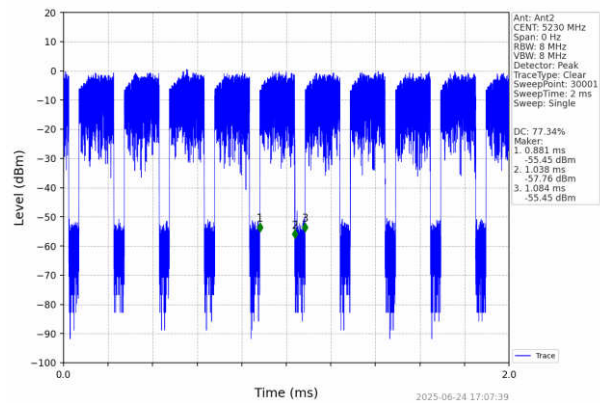




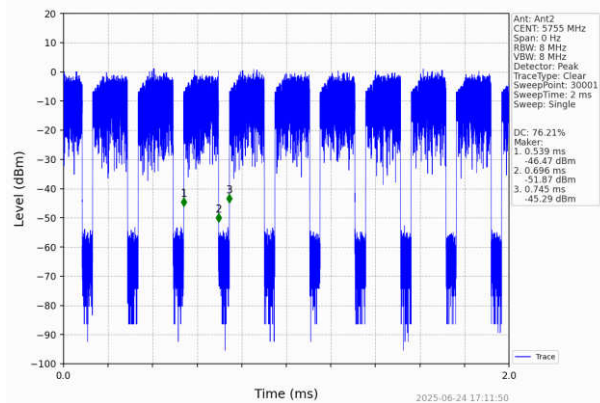




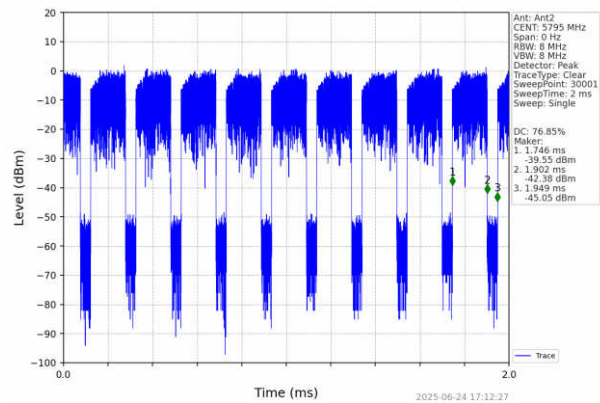
802.11ac(VHT40)_HCH_5230MHz_Ant2_NTNV

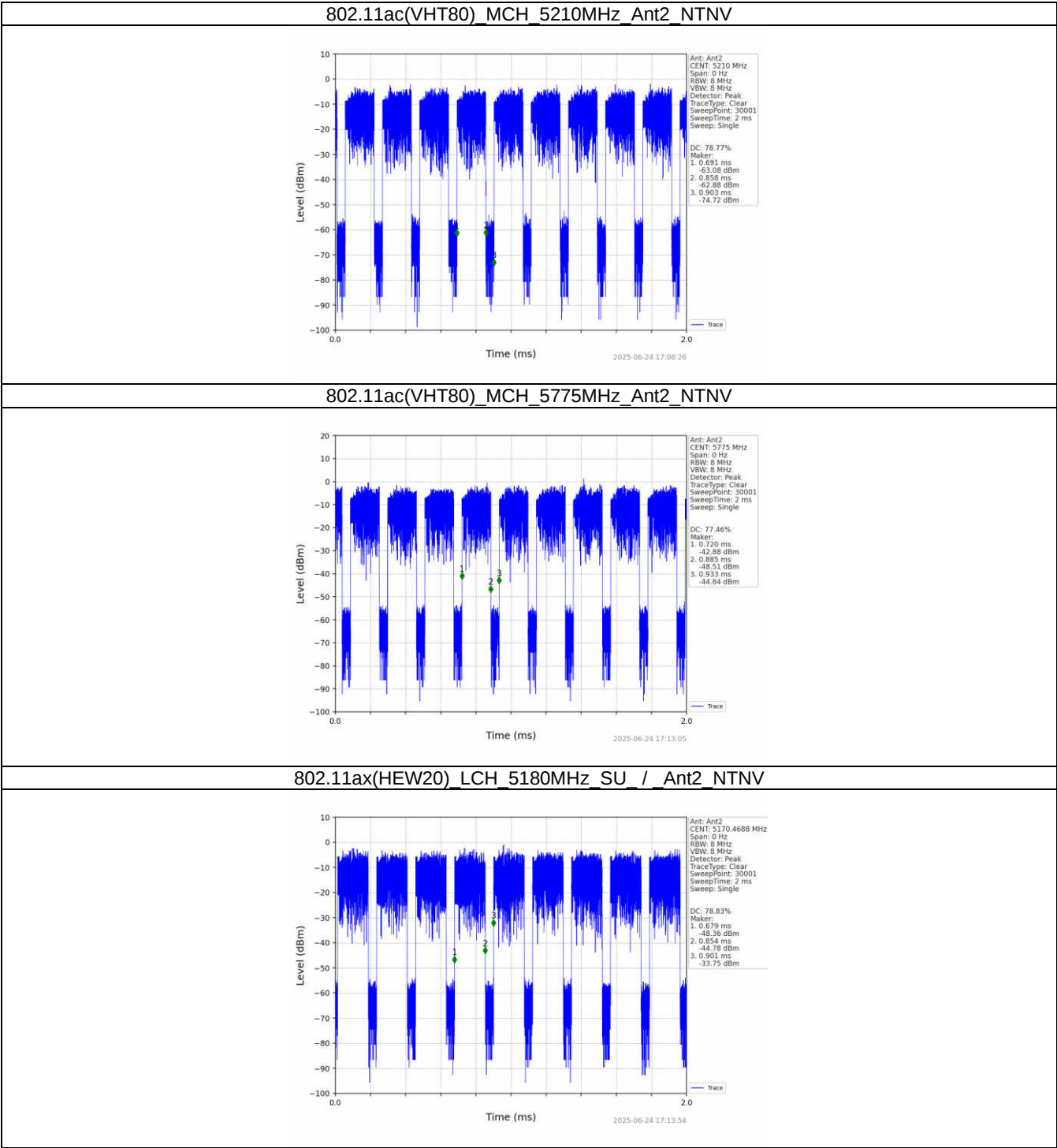


802.11ac(VHT40)_LCH_5755MHz_Ant2_NTNV

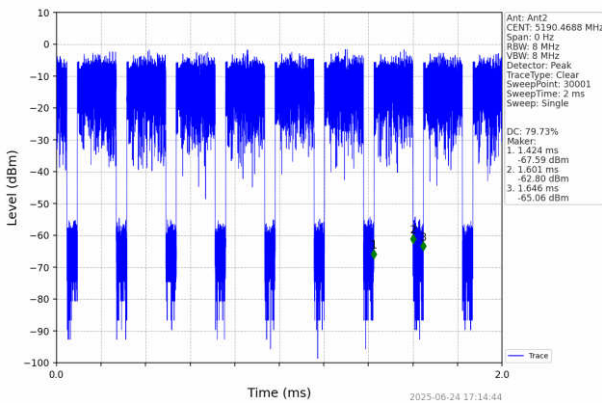


802.11ac(VHT40)_HCH_5795MHz_Ant2_NTNV

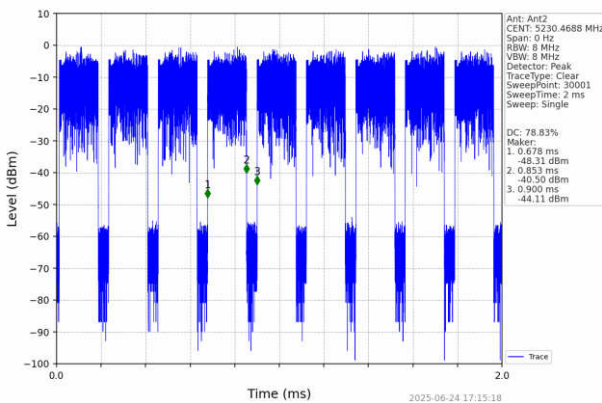




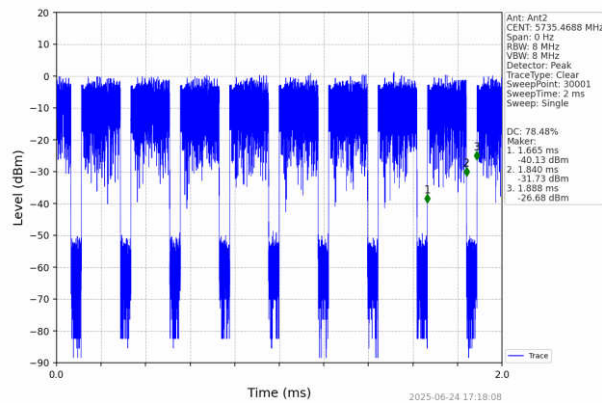
802.11ax(HEW20)_MCH_5200MHz_SU / Ant2_NTNV



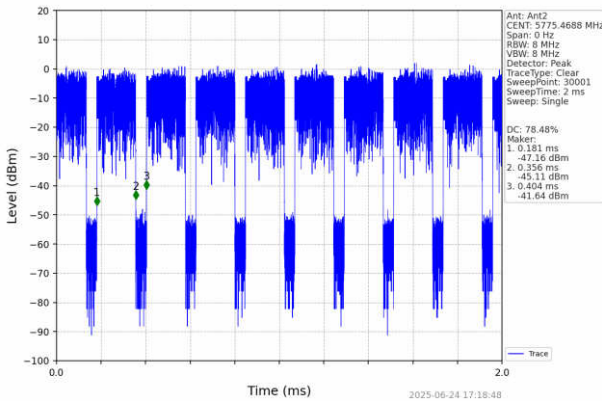
802.11ax(HEW20)_HCH_5240MHz_SU / Ant2_NTNV



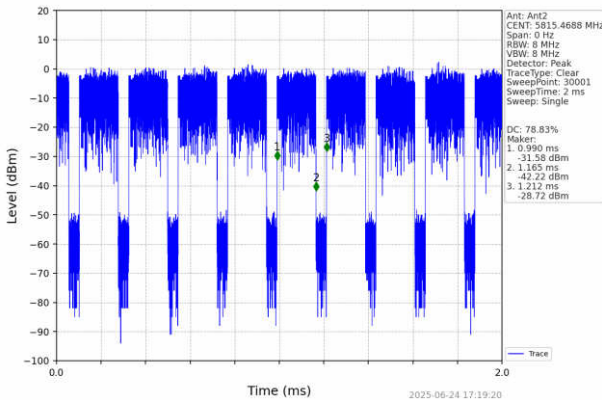
802.11ax(HEW20)_LCH_5745MHz_SU / Ant2_NTNV



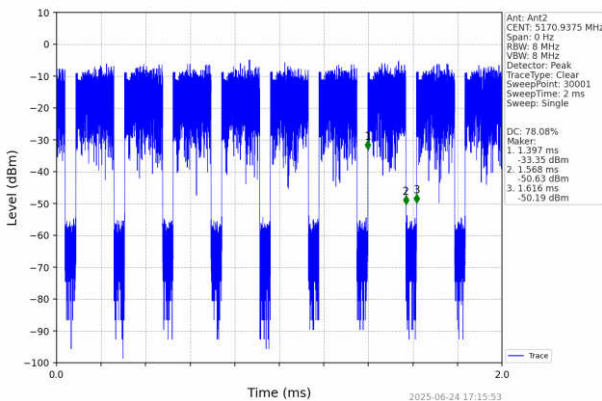
802.11ax(HEW20)_MCH_5785MHz_SU / Ant2_NTNV



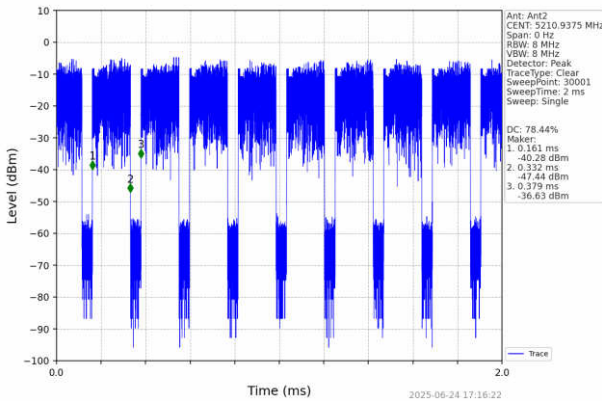
802.11ax(HEW20)_HCH_5825MHz_SU / Ant2_NTNV



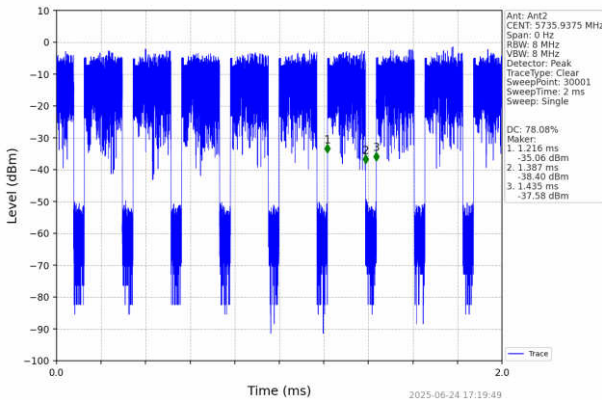
802.11ax(HEW40)_LCH_5190MHz_SU / Ant2_NTNV



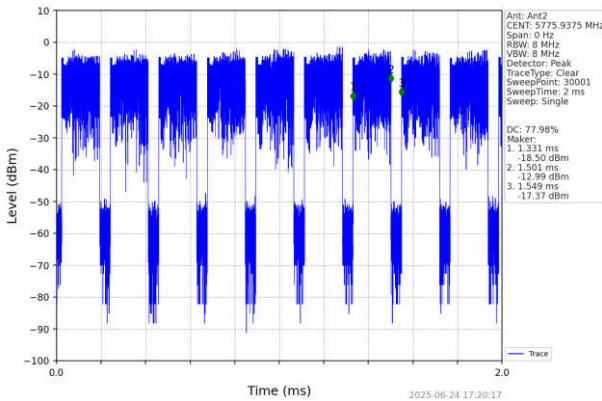
802.11ax(HEW40)_HCH_5230MHz_SU_/_Ant2_NTNV

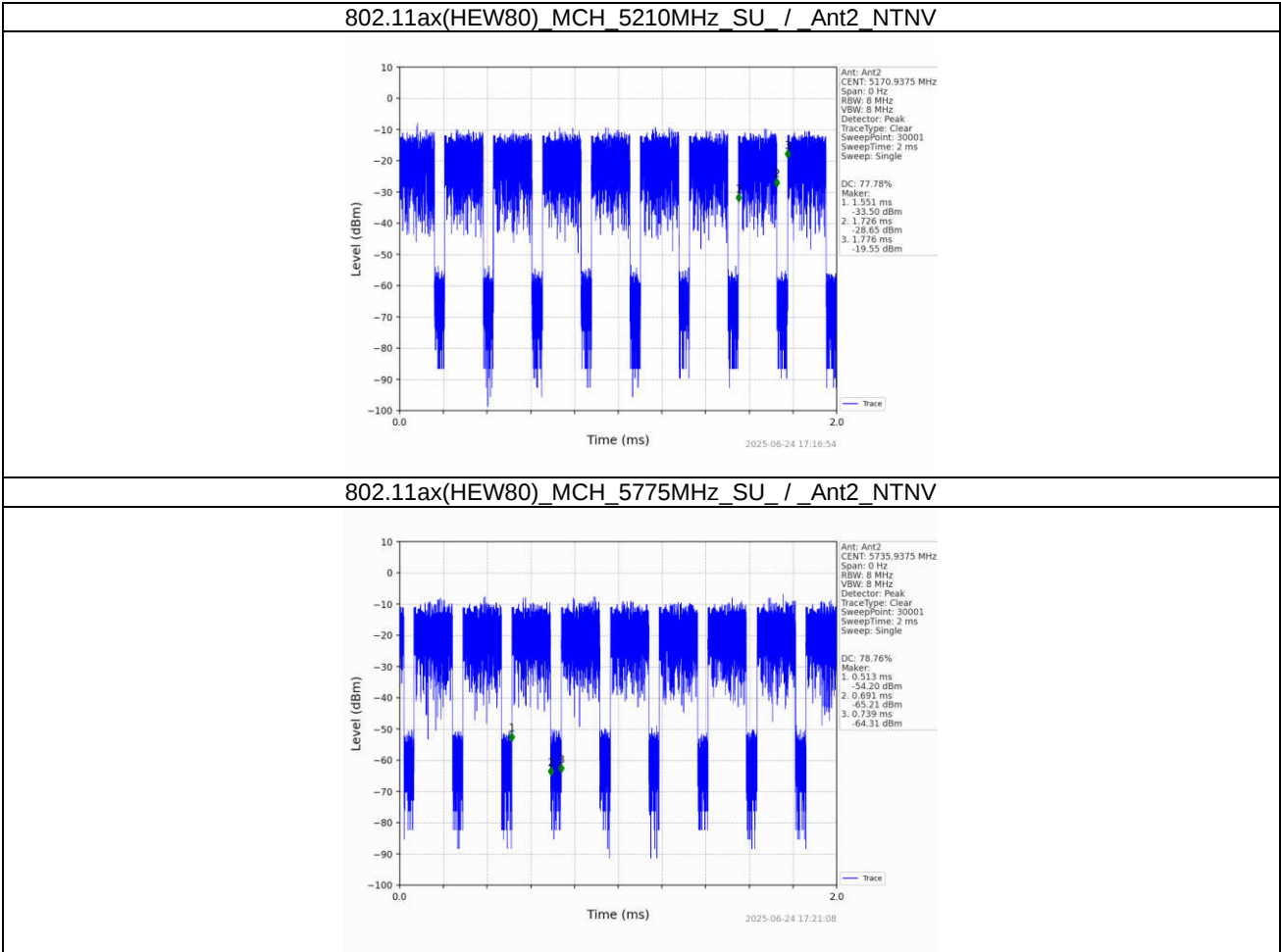


802.11ax(HEW40)_LCH_5755MHz_SU_/_Ant2_NTNV



802.11ax(HEW40)_HCH_5795MHz_SU_/_Ant2_NTNV





4.5 Power Spectral Density

Limit

(1) For the band 5.15 - 5.25 GHz.

(i) For an outdoor access point operating in the band 5.15 - 5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 MHz band. ^{note1}

(ii) For an indoor access point operating in the band 5.15 - 5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 MHz band. ^{note1}

(iii) For fixed point-to-point access points operating in the band 5.15 - 5.25 GHz, transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi.

(iv) For mobile and portable client devices in the 5.15 - 5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 MHz band. ^{note1}

(2) For the 5.25 - 5.35 GHz and 5.47 - 5.725 GHz bands, the peak power spectral density shall not exceed 11 dBm in any 1 MHz band. ^{note1}

(3) For the band 5.725 - 5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500 kHz band. ^{note1, note2}

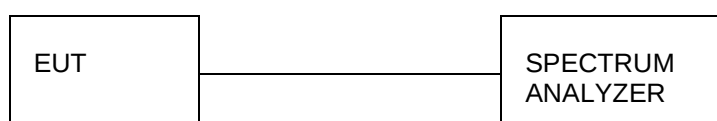
Note1: If transmitting antennas of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note2: Fixed point - to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information.

Test Procedure

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. Set the RBW = 1MHz for U-NII 1, U-NII 2A, U-NII C band and 510KHz for U-NII 3 band.
3. Set the VBW $\geq 3 \times$ RBW.
4. Set the span to encompass the entire EBW.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum power level.

Test Configuration



Test Results

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz) for 5.2GWIFI		Verdict
			Maximum PSD (dBm/500kHz) for 5.8GWIFI		
			ANT1	Limit	
802.11a	SISO	5180	-9.99	<=11	Pass
		5200	-10.35	<=11	Pass
		5240	-9.63	<=11	Pass
802.11n (HT20)	SISO	5180	-10.43	<=11	Pass
		5200	-10.44	<=11	Pass
		5240	-10.13	<=11	Pass
802.11n (HT40)	SISO	5190	-13.89	<=11	Pass
		5230	-13.44	<=11	Pass
802.11ac (VHT20)	SISO	5180	-10.35	<=11	Pass
		5200	-10.43	<=11	Pass
		5240	-10.07	<=11	Pass
802.11ac (VHT40)	SISO	5190	-13.66	<=11	Pass
		5230	-13.49	<=11	Pass
802.11ac (VHT80)	SISO	5210	-16.46	<=11	Pass
802.11ax (HEW20)	SISO	5180	-10.95	<=11	Pass
		5200	-10.85	<=11	Pass
		5240	-10.56	<=11	Pass
802.11ax (HEW40)	SISO	5190	-14.37	<=11	Pass
		5230	-14.11	<=11	Pass
802.11ax (HEW80)	SISO	5210	-16.85	<=11	Pass
802.11a	SISO	5745	-13.62	<=30	Pass
		5785	-13.41	<=30	Pass
		5825	-13.48	<=30	Pass
802.11n (HT20)	SISO	5745	-13.68	<=30	Pass
		5785	-13.28	<=30	Pass
		5825	-13.64	<=30	Pass
802.11n (HT40)	SISO	5755	-15.94	<=30	Pass
		5795	-16.23	<=30	Pass
802.11ac (VHT20)	SISO	5745	-13.64	<=30	Pass
		5785	-13.59	<=30	Pass
		5825	-13.26	<=30	Pass
802.11ac (VHT40)	SISO	5755	-16.01	<=30	Pass
		5795	-16.42	<=30	Pass
802.11ac (VHT80)	SISO	5775	-18.15	<=30	Pass
802.11ax (HEW20)	SISO	5745	-14.18	<=30	Pass
		5785	-14.07	<=30	Pass
		5825	-14.09	<=30	Pass
802.11ax (HEW40)	SISO	5755	-16.87	<=30	Pass
		5795	-17.00	<=30	Pass
802.11ax (HEW80)	SISO	5775	-18.99	<=30	Pass
Note1: Antenna Gain: - Band: 3 Ant1: 3.47dBi; - Band: 1 Ant1: 4.01dBi; - Band: 1 Ant2: 2.31dBi; - Band: 3 Ant2: 3.61dBi;					

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz) for 5.2GWIFI		Verdict
			Maximum PSD (dBm/500kHz) for 5.8GWIFI		
			ANT2	Limit	
802.11a	SISO	5180	-11.46	<=11	Pass
		5200	-11.13	<=11	Pass
		5240	-10.62	<=11	Pass
802.11n (HT20)	SISO	5180	-11.55	<=11	Pass
		5200	-11.40	<=11	Pass
		5240	-10.64	<=11	Pass
802.11n (HT40)	SISO	5190	-14.79	<=11	Pass
		5230	-14.42	<=11	Pass
802.11ac (VHT20)	SISO	5180	-11.77	<=11	Pass
		5200	-11.43	<=11	Pass
		5240	-10.52	<=11	Pass
802.11ac (VHT40)	SISO	5190	-14.86	<=11	Pass
		5230	-14.56	<=11	Pass
802.11ac (VHT80)	SISO	5210	-17.73	<=11	Pass
802.11ax (HEW20)	SISO	5180	-11.09	<=11	Pass
		5200	-10.93	<=11	Pass
		5240	-10.33	<=11	Pass
802.11ax (HEW40)	SISO	5190	-14.24	<=11	Pass
		5230	-14.03	<=11	Pass
802.11ax (HEW80)	SISO	5210	-17.29	<=11	Pass
802.11a	SISO	5745	-14.27	<=30	Pass
		5785	-14.19	<=30	Pass
		5825	-13.61	<=30	Pass
802.11n (HT20)	SISO	5745	-14.29	<=30	Pass
		5785	-14.33	<=30	Pass
		5825	-13.85	<=30	Pass
802.11n (HT40)	SISO	5755	-16.79	<=30	Pass
		5795	-17.24	<=30	Pass
802.11ac (VHT20)	SISO	5745	-14.04	<=30	Pass
		5785	-14.29	<=30	Pass
		5825	-13.12	<=30	Pass
802.11ac (VHT40)	SISO	5755	-15.95	<=30	Pass
		5795	-16.05	<=30	Pass
802.11ac (VHT80)	SISO	5775	-18.55	<=30	Pass
802.11ax (HEW20)	SISO	5745	-14.01	<=30	Pass
		5785	-14.45	<=30	Pass
		5825	-13.94	<=30	Pass
802.11ax (HEW40)	SISO	5755	-16.92	<=30	Pass
		5795	-16.99	<=30	Pass
802.11ax (HEW80)	SISO	5775	-19.66	<=30	Pass
Note1: Antenna Gain: - Band: 3 Ant1: 3.47dBi; - Band: 1 Ant1: 4.01dBi; - Band: 1 Ant2: 2.31dBi; - Band: 3 Ant2: 3.61dBi;					

Test plot as follows

