

ANNEX G TEST DATA

For

Project No.:	8333EU011811W
Client:	SHENZHEN ELECTRON TECHNOLOGY CO., LTD.
Product Description:	Android Digital Signage
Model No.:	WL1539T
FCC ID:	2ABC5-E0102
Technology:	WiFi 5G
Test Engineer:	<i>Mikey zhu</i>
Test Date:	2025-08-22

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 Stability	Pass

1. Duty Cycle

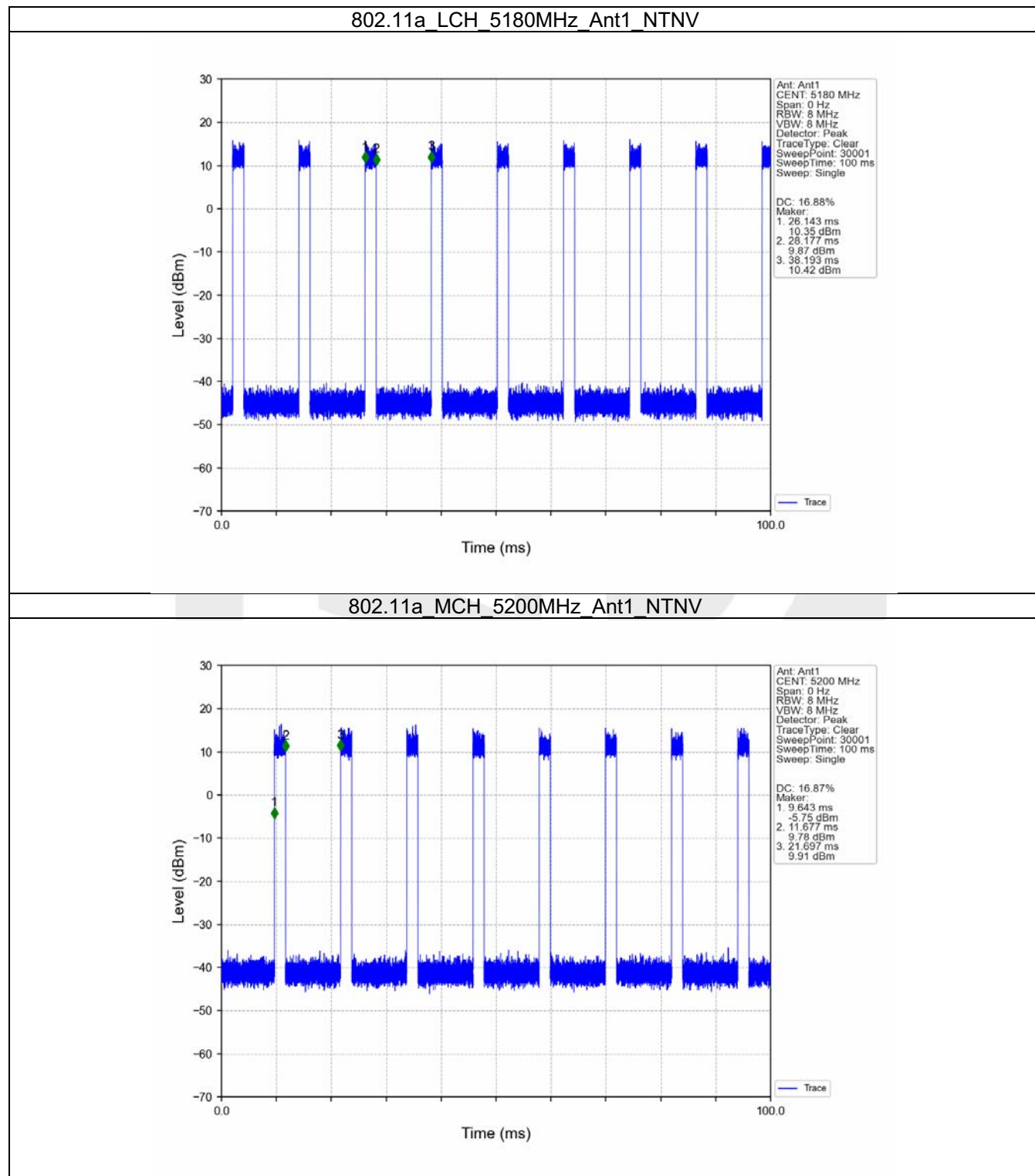
1.1 Test Result

1.1.1 Ant1

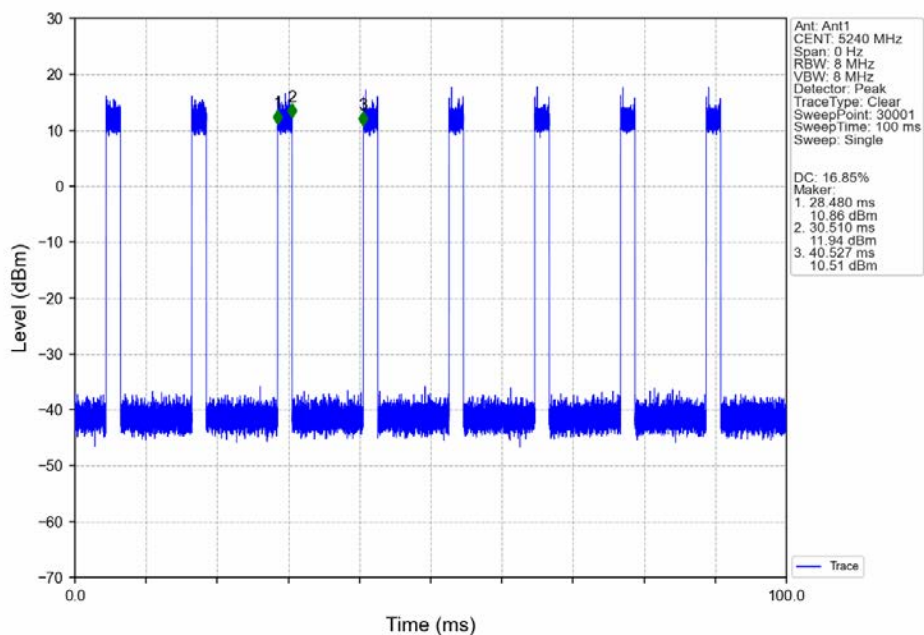
Ant1									
Mode	Tx Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	/	/	2.034	12.050	16.88	7.73	0.03
		5200	/	/	2.034	12.054	16.87	7.73	0.00
		5240	/	/	2.030	12.047	16.85	7.73	0.02
		5745	/	/	2.034	12.054	16.87	7.73	0.03
		5785	/	/	2.033	12.073	16.84	7.74	0.05
		5825	/	/	2.033	12.053	16.87	7.73	0.01
802.11n (HT20)	SISO	5180	/	/	1.890	11.913	15.87	8.00	0.03
		5200	/	/	1.890	11.913	15.87	8.00	0.03
		5240	/	/	1.890	11.910	15.87	7.99	0.03
		5745	/	/	1.893	11.913	15.89	7.99	0.03
		5785	/	/	1.894	11.987	15.80	8.01	0.11
		5825	/	/	1.893	12.386	15.28	8.16	0.64
802.11n (HT40)	SISO	5190	/	/	0.930	10.947	8.50	10.71	0.03
		5230	/	/	0.930	10.950	8.49	10.71	0.03
		5755	/	/	0.933	10.950	8.52	10.70	0.00
		5795	/	/	0.933	10.957	8.52	10.70	0.01
802.11ac (VHT20)	SISO	5180	/	/	1.900	11.917	15.94	7.97	0.03
		5200	/	/	1.900	11.923	15.94	7.98	0.00
		5240	/	/	1.900	11.916	15.94	7.97	0.03
		5745	/	/	1.900	11.924	15.93	7.98	0.04
		5785	/	/	1.900	11.924	15.93	7.98	0.03
		5825	/	/	1.900	11.970	15.87	7.99	0.09
802.11ac (VHT40)	SISO	5190	/	/	0.936	10.953	8.55	10.68	0.00
		5230	/	/	0.937	10.954	8.55	10.68	0.00
		5755	/	/	0.937	10.957	8.55	10.68	0.03
		5795	/	/	0.937	10.960	8.55	10.68	0.01
802.11ac (VHT80)	SISO	5210	/	/	0.456	10.480	4.35	13.61	0.03
		5775	/	/	0.457	10.563	4.33	13.64	0.07
802.11ax (HEW20)	SISO	5180	SU	/	1.460	11.484	12.71	8.96	0.03
		5200	SU	/	1.460	11.483	12.71	8.96	0.03
		5240	SU	/	1.460	11.477	12.72	8.95	0.03
		5745	SU	/	1.460	11.483	12.71	8.96	0.03
		5785	SU	/	1.464	11.767	12.44	9.05	0.31
		5825	SU	/	1.460	11.483	12.71	8.96	0.03
802.11ax (HEW40)	SISO	5190	SU	/	0.760	10.780	7.05	11.52	0.03
		5230	SU	/	0.764	10.780	7.09	11.50	0.00
		5755	SU	/	0.763	11.203	6.81	11.67	0.27
		5795	SU	/	0.760	10.780	7.05	11.52	0.03

1.2 Test Graph

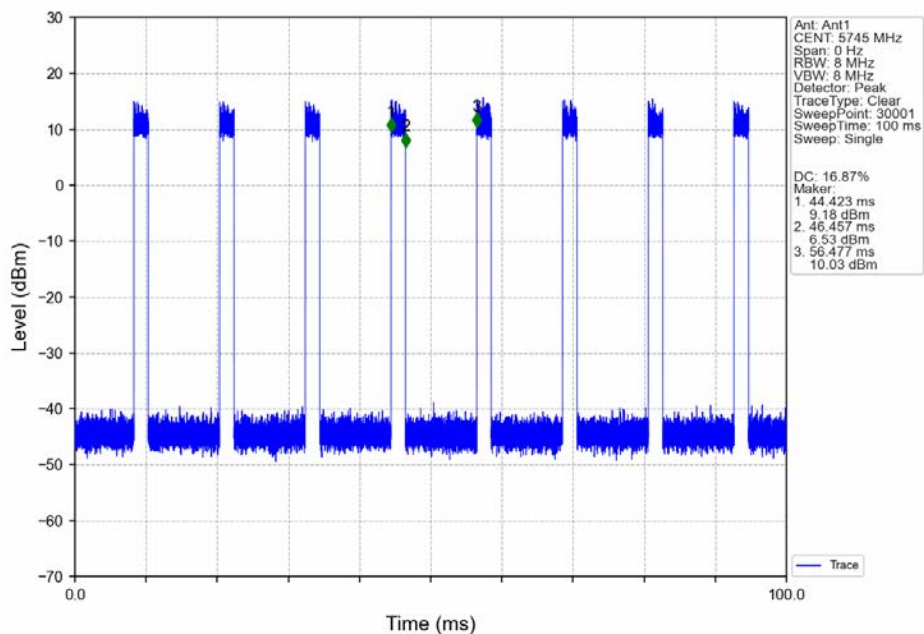
1.2.1 Ant1

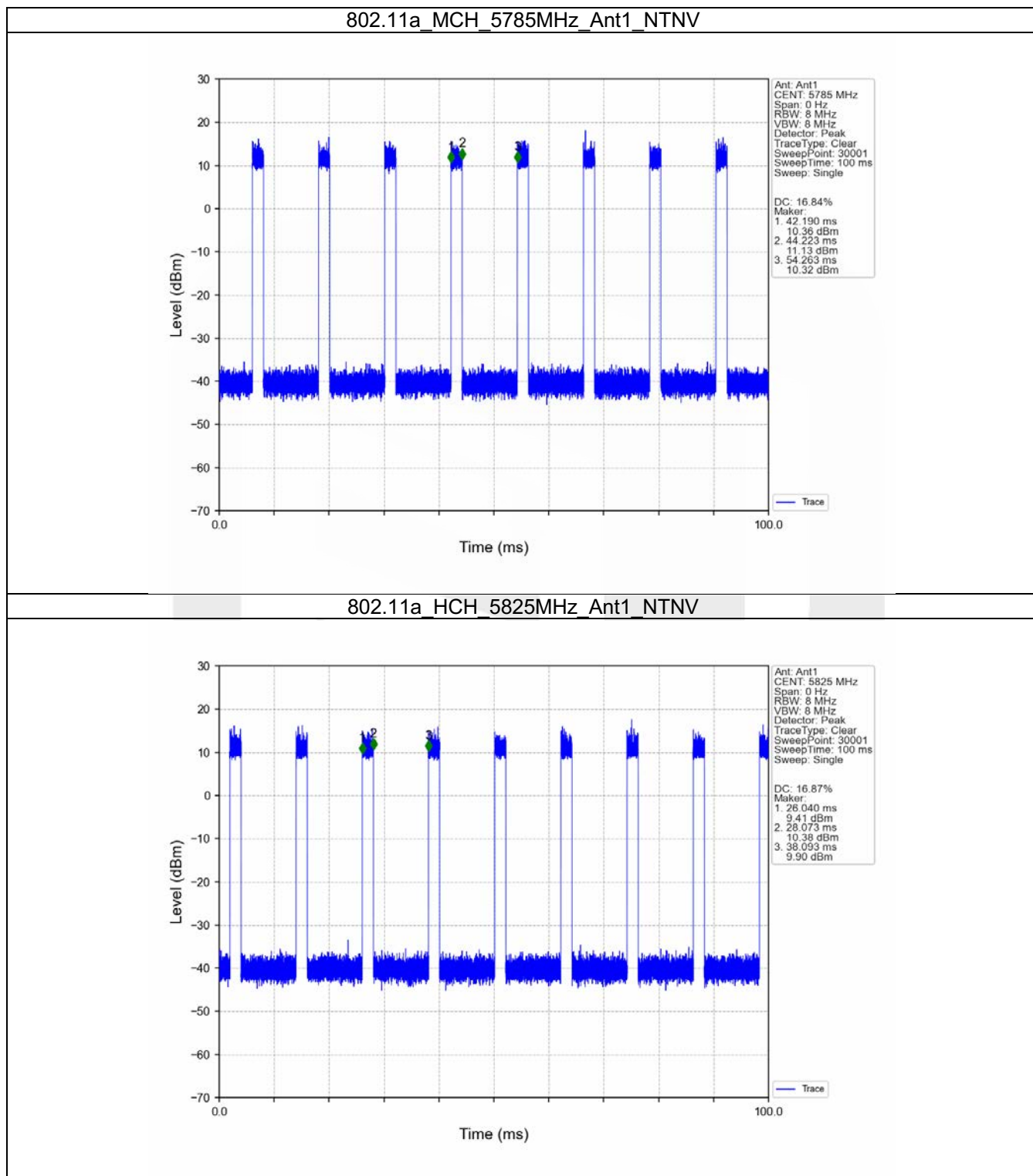


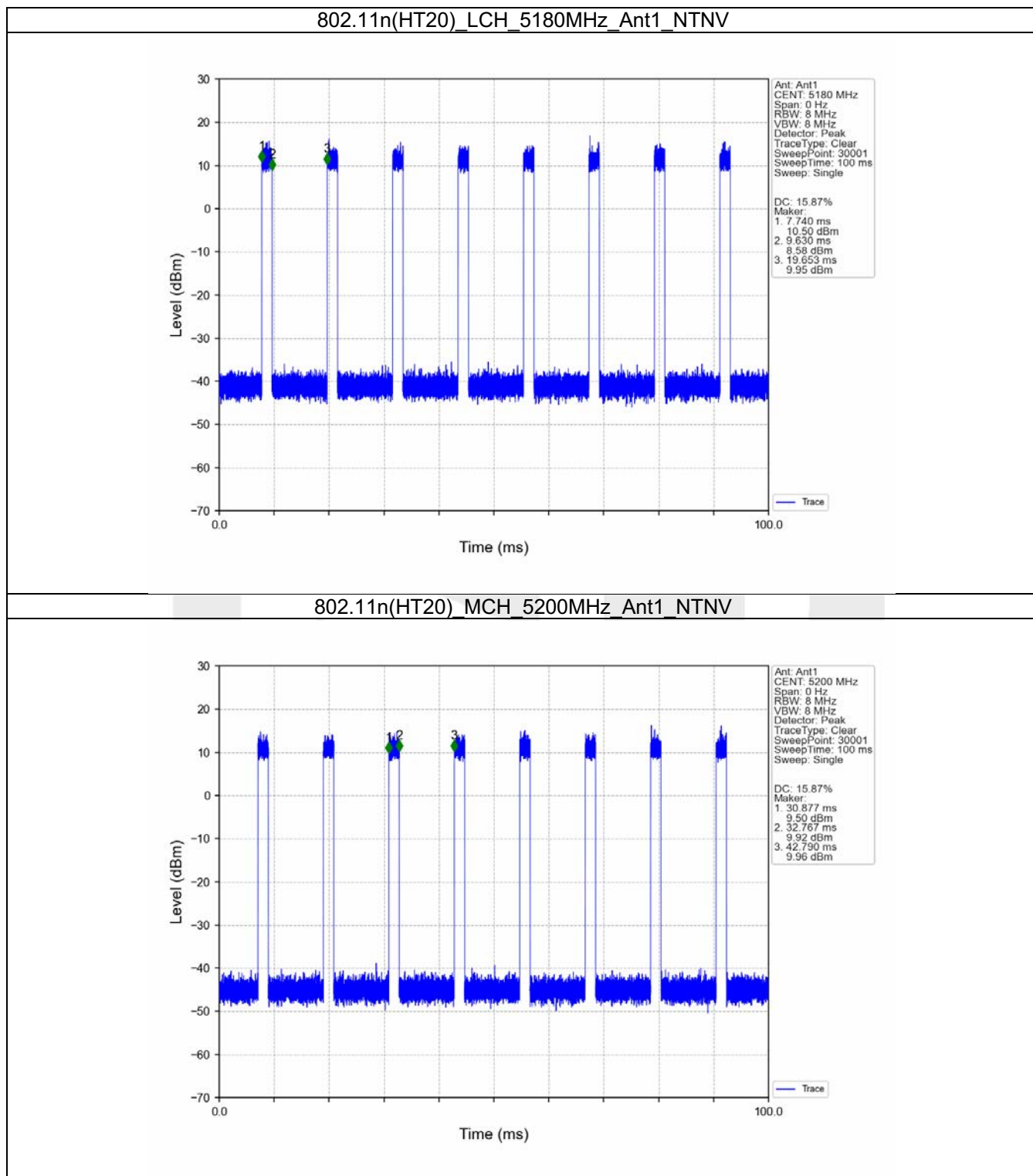
802.11a_HCH_5240MHz_Ant1_NTNV



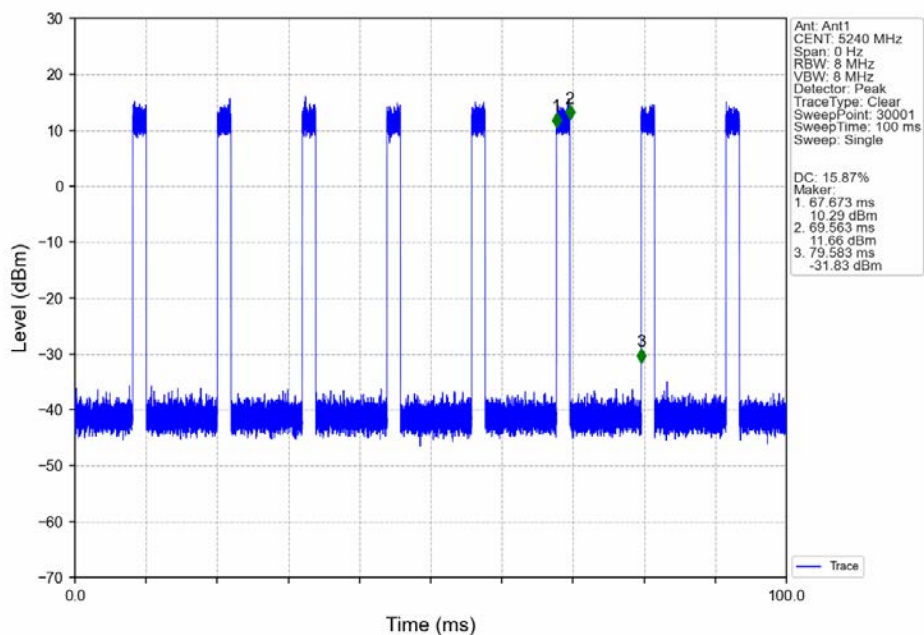
802.11a_LCH_5745MHz_Ant1_NTNV



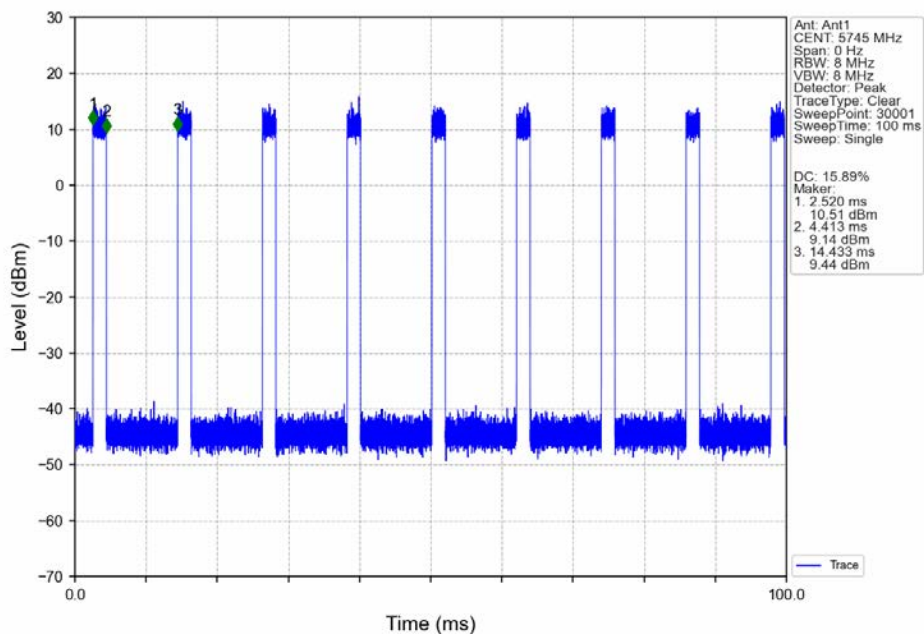




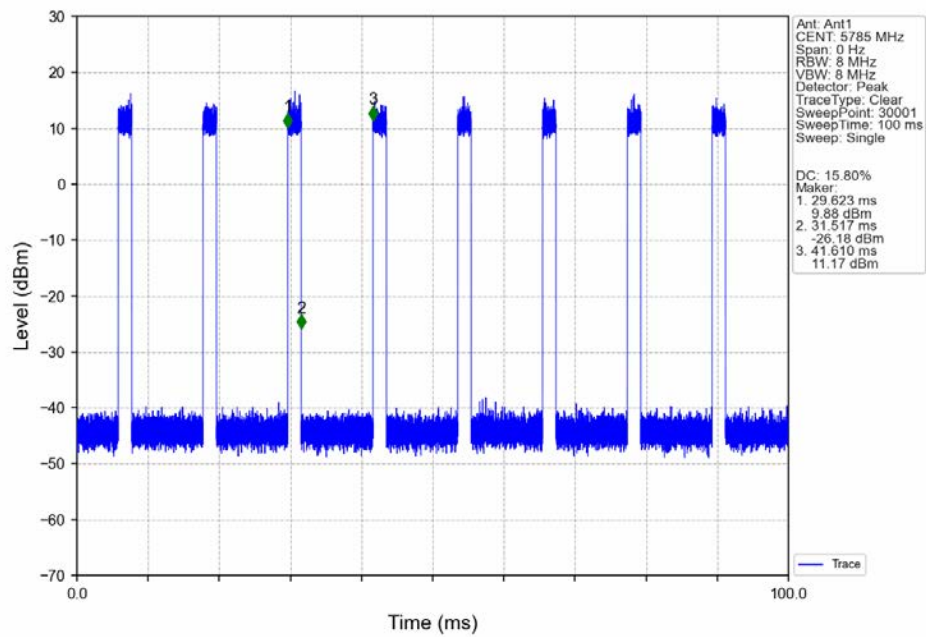
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



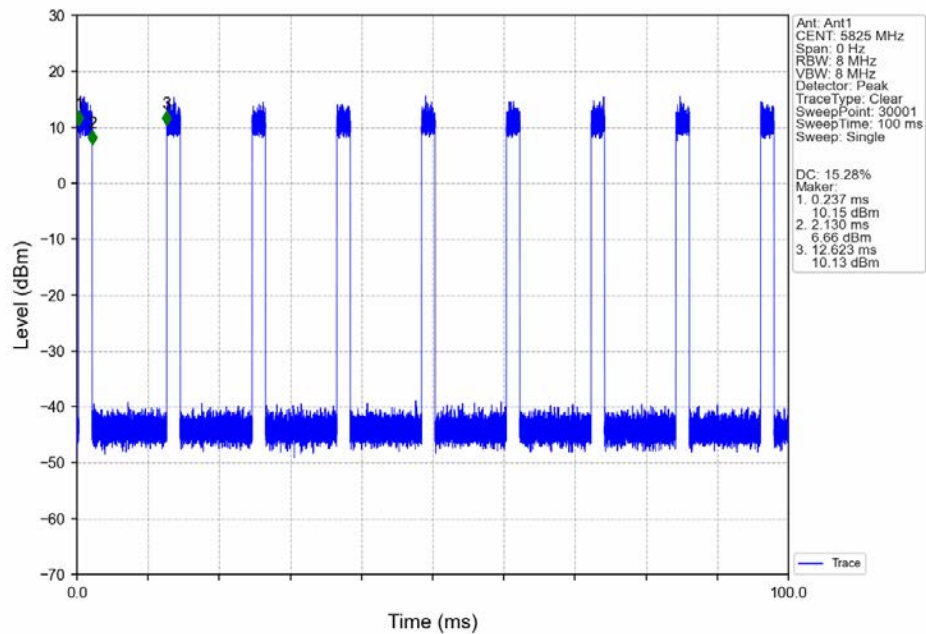
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV

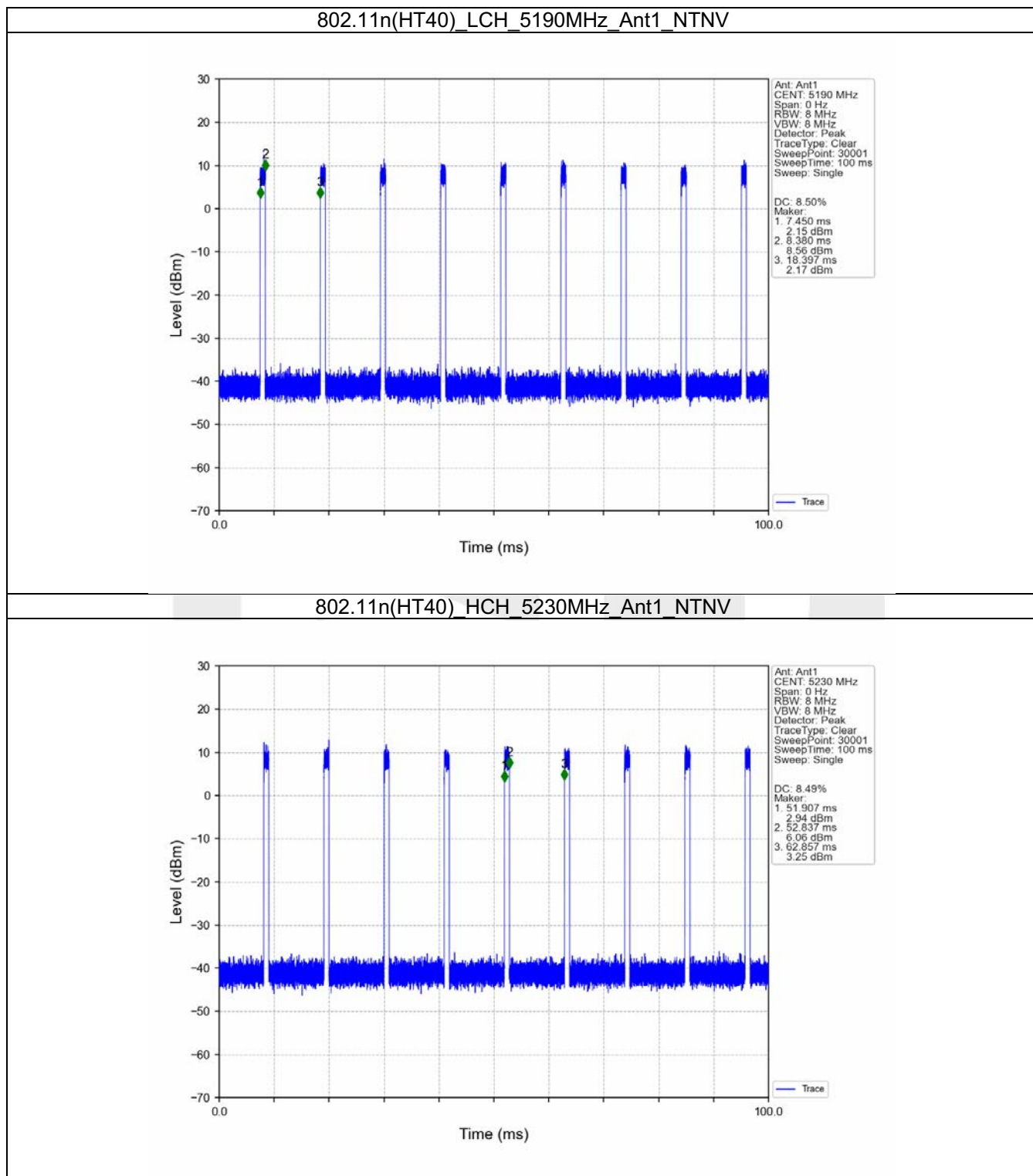


802.11n(HT20)_MCH_5785MHz_Ant1_NTNV

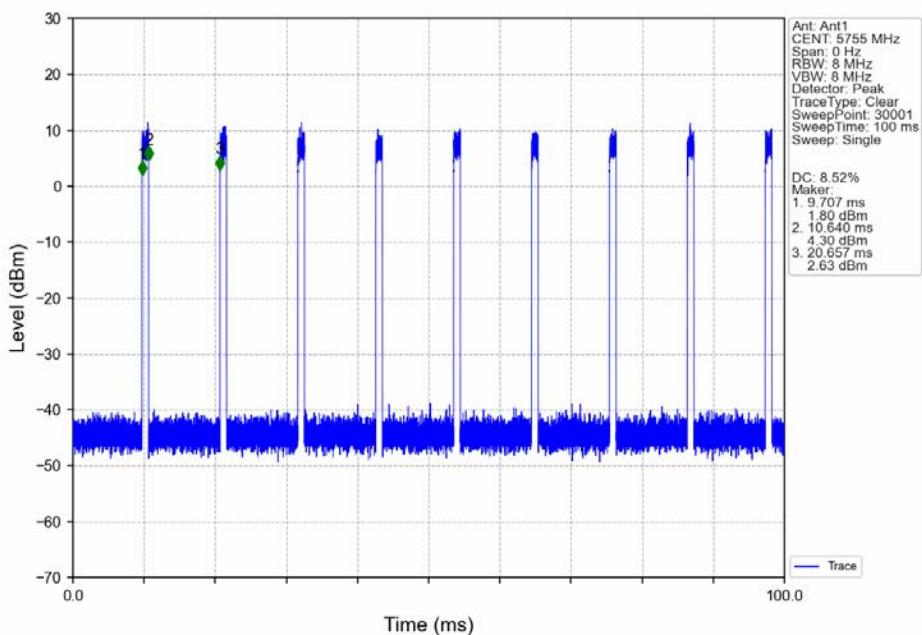


802.11n(HT20)_HCH_5825MHz_Ant1_NTNV

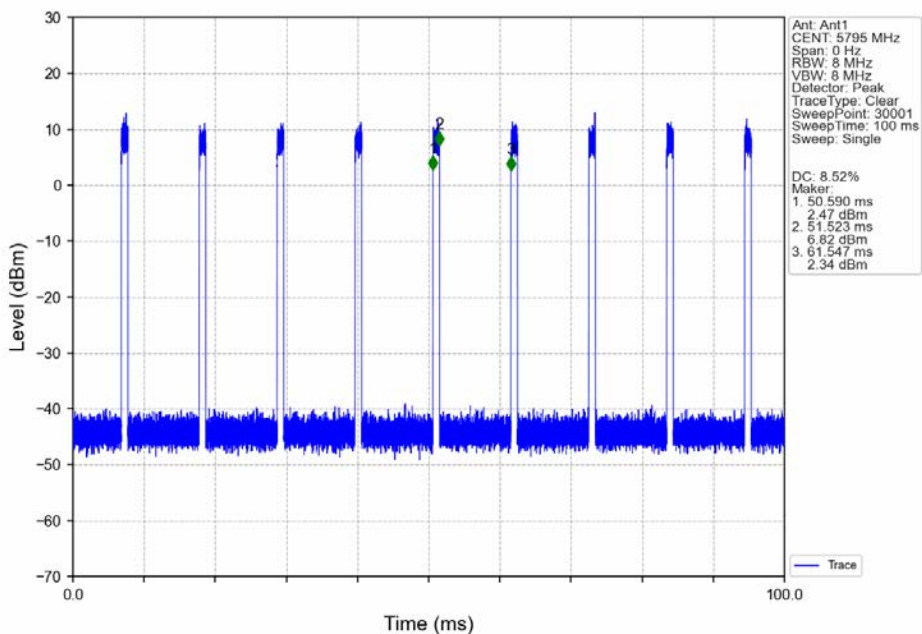


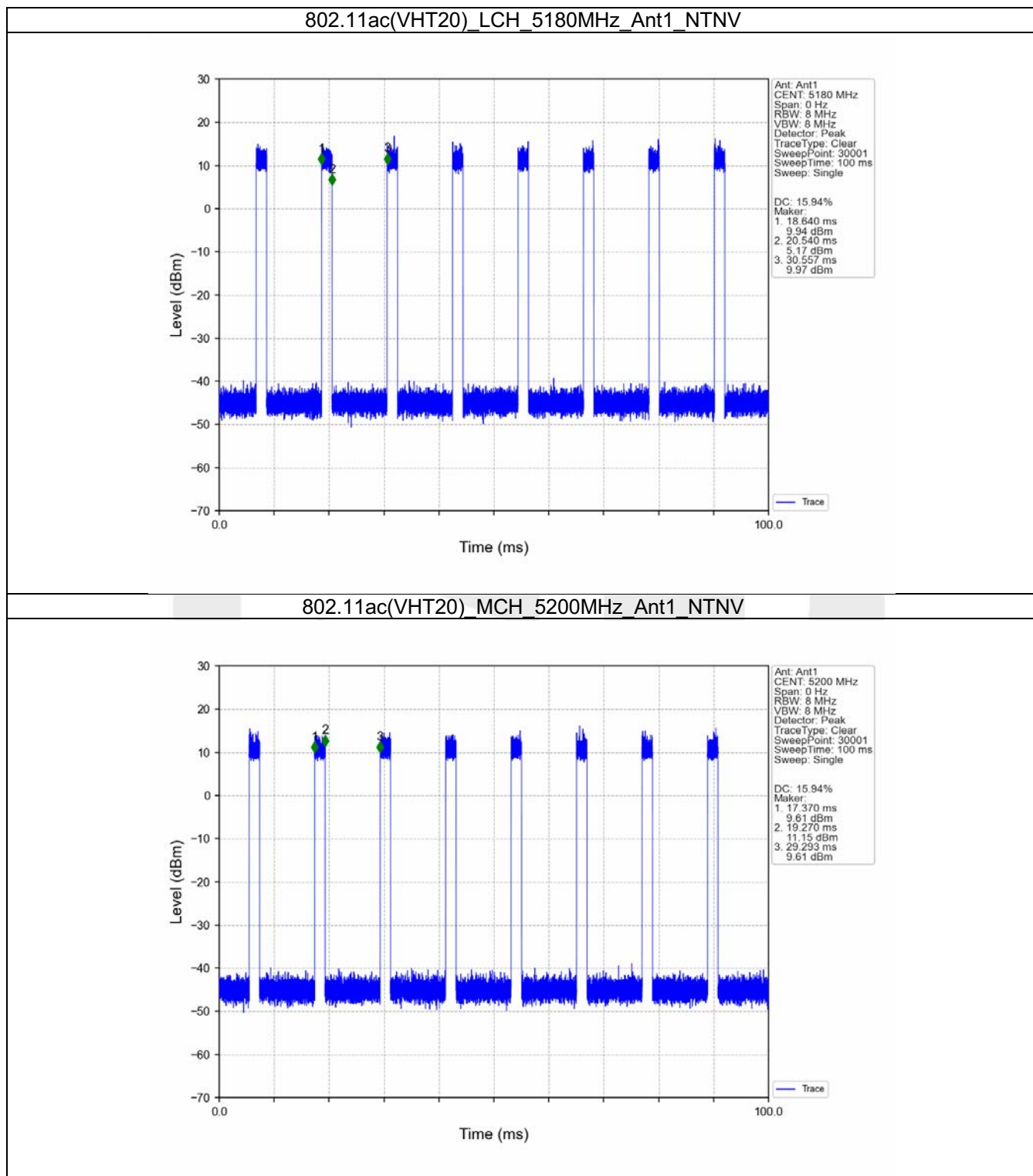


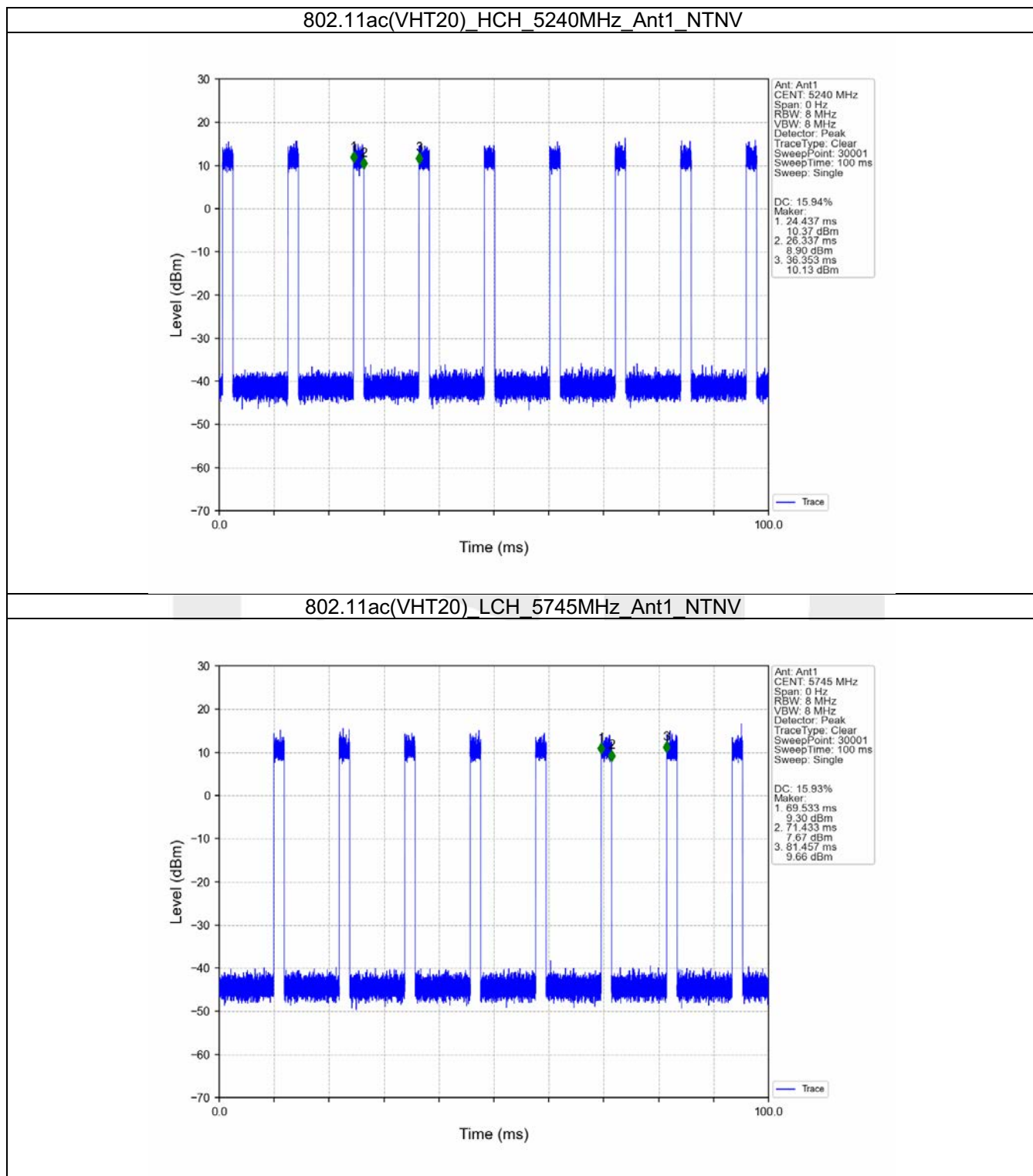
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV

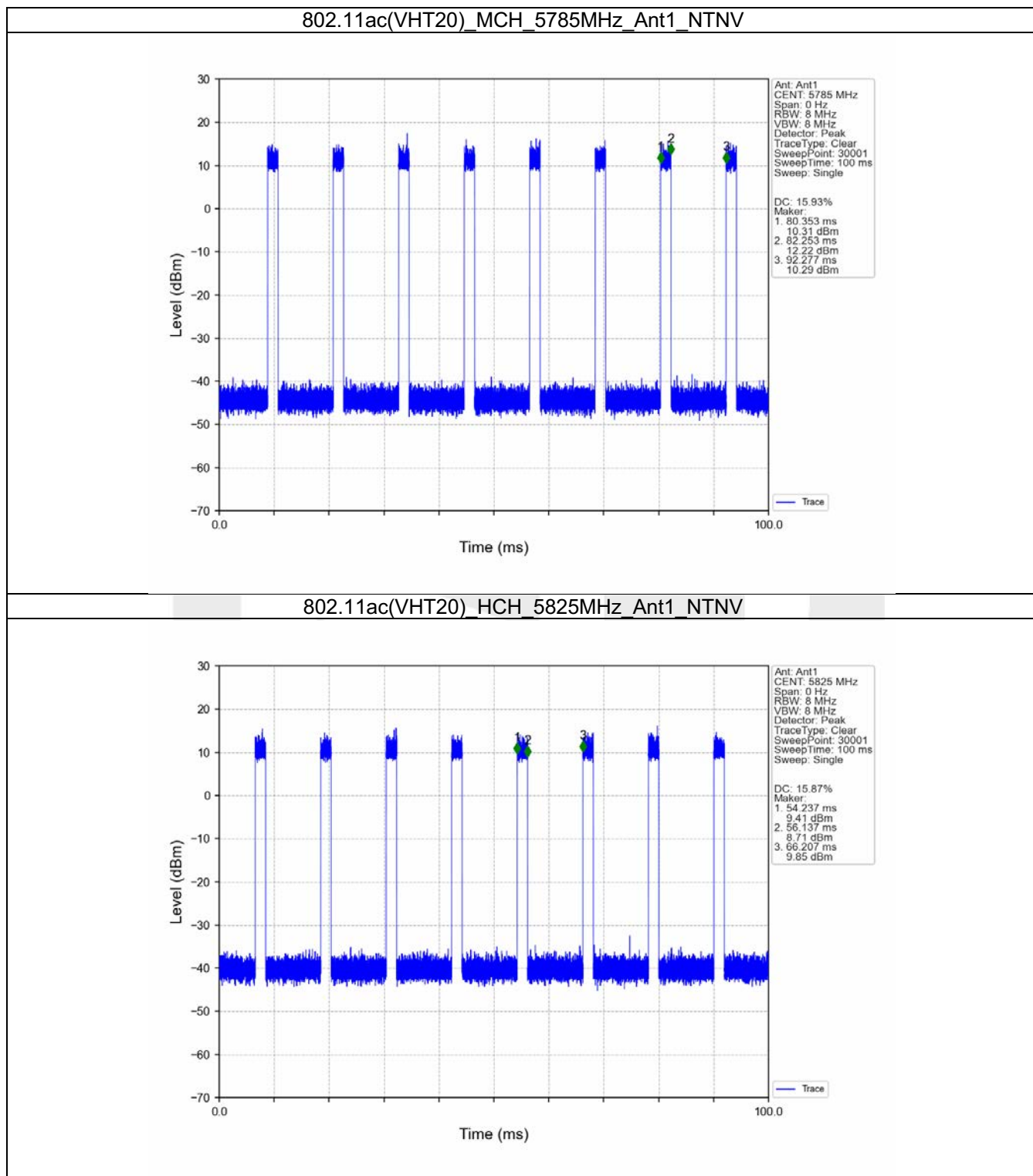


802.11n(HT40)_HCH_5795MHz_Ant1_NTNV

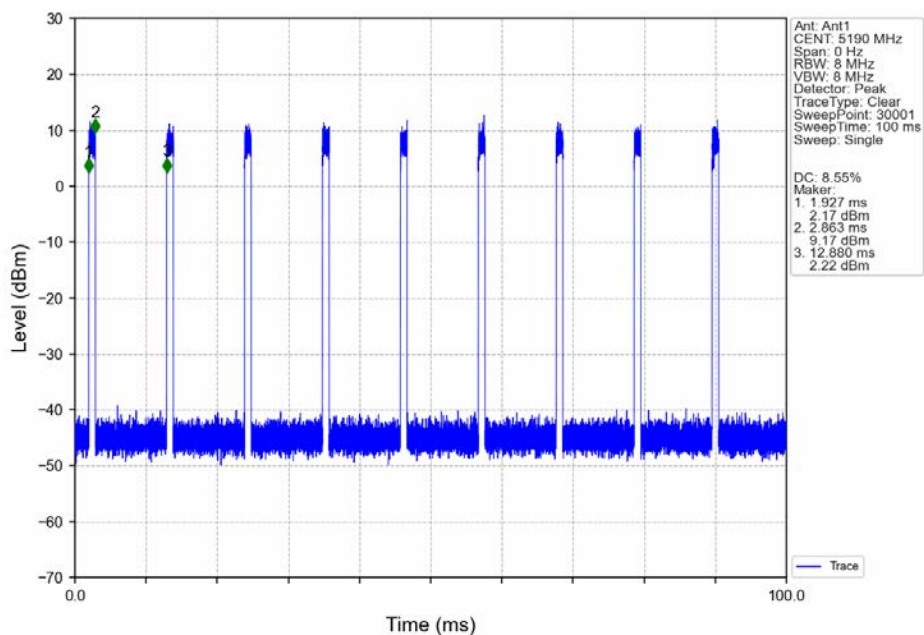




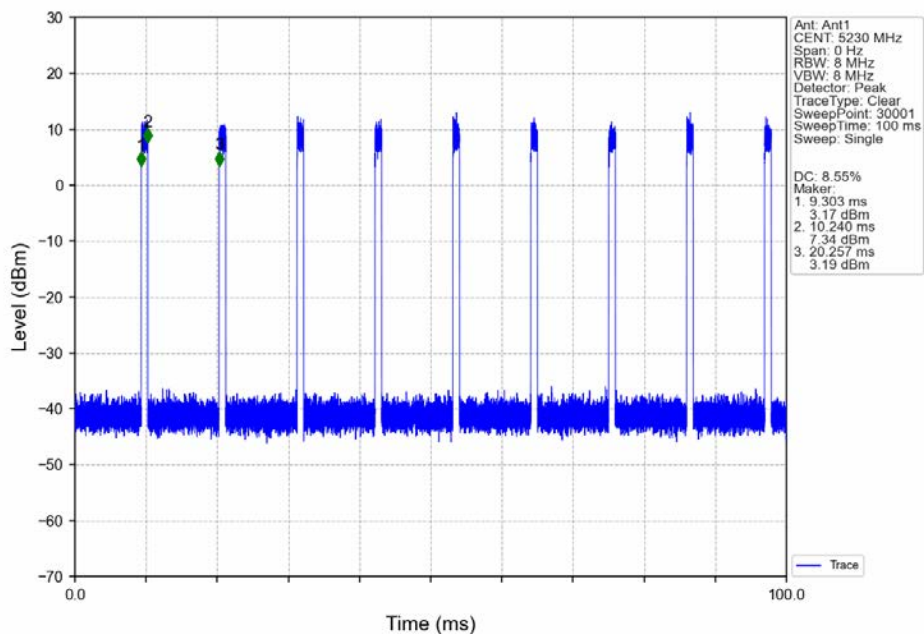




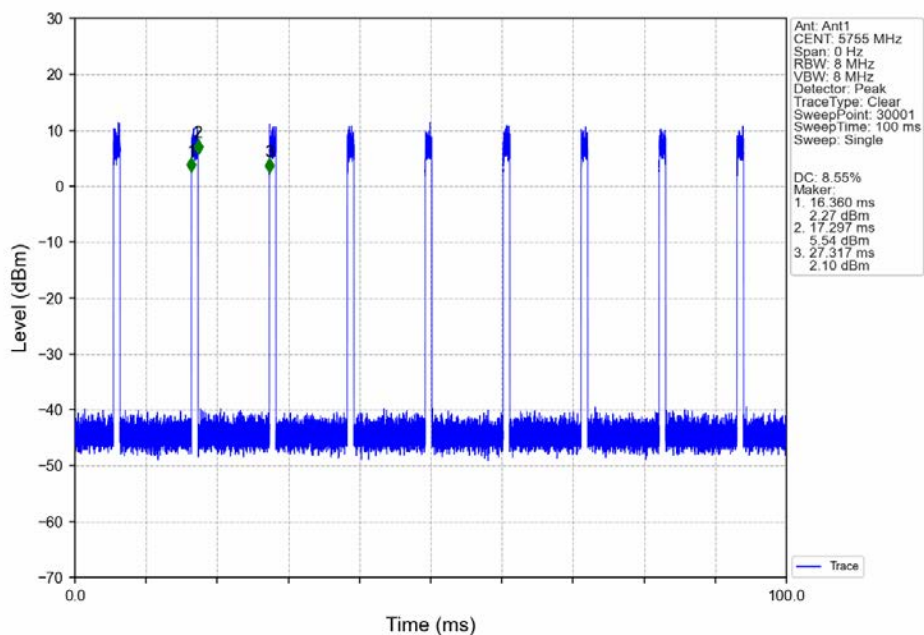
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



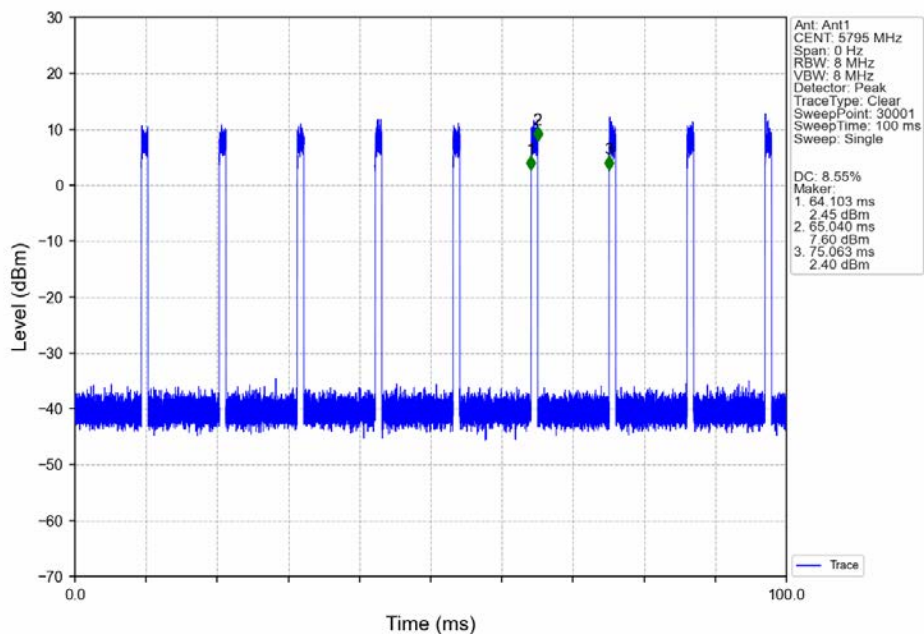
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV

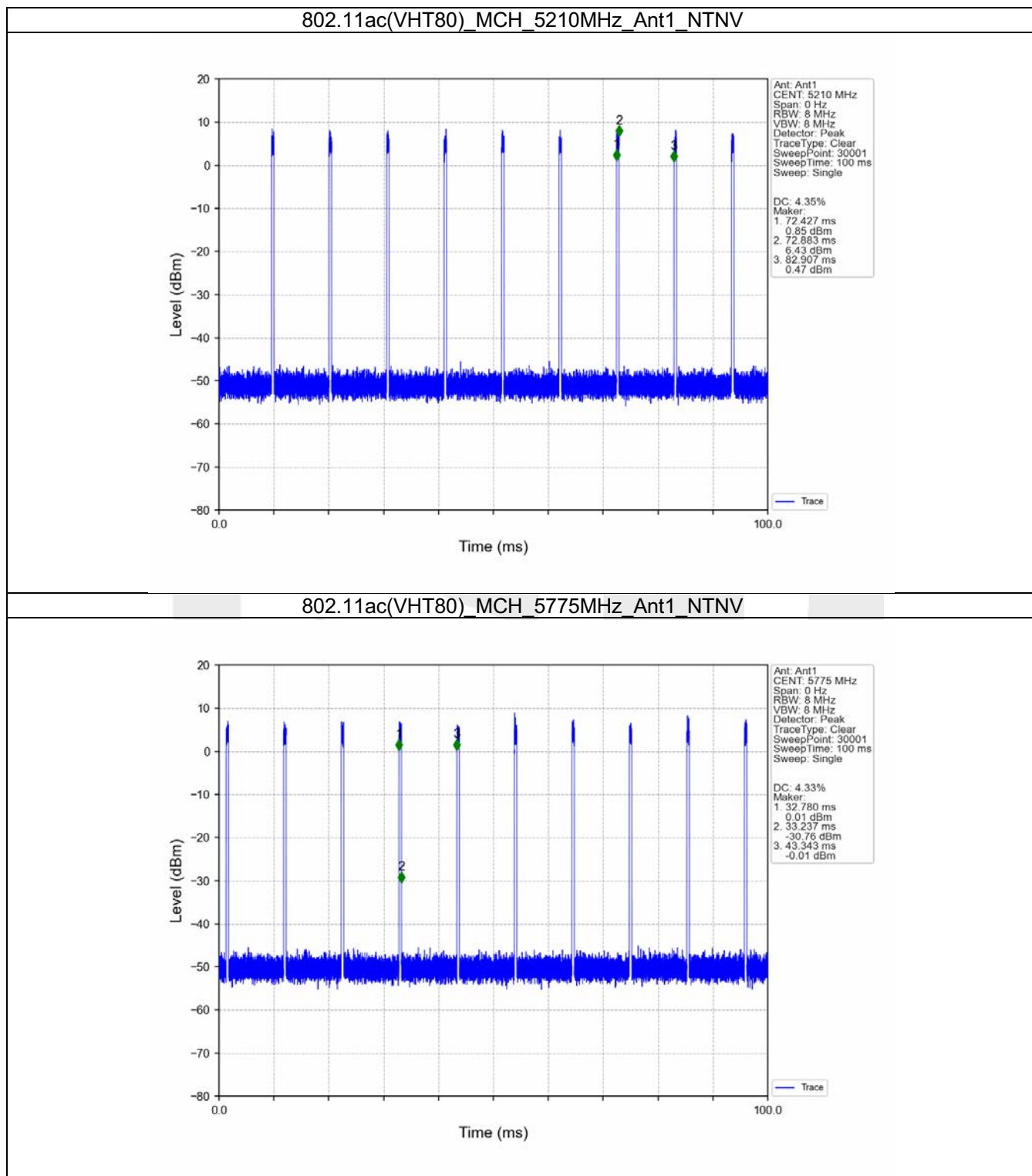


802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV

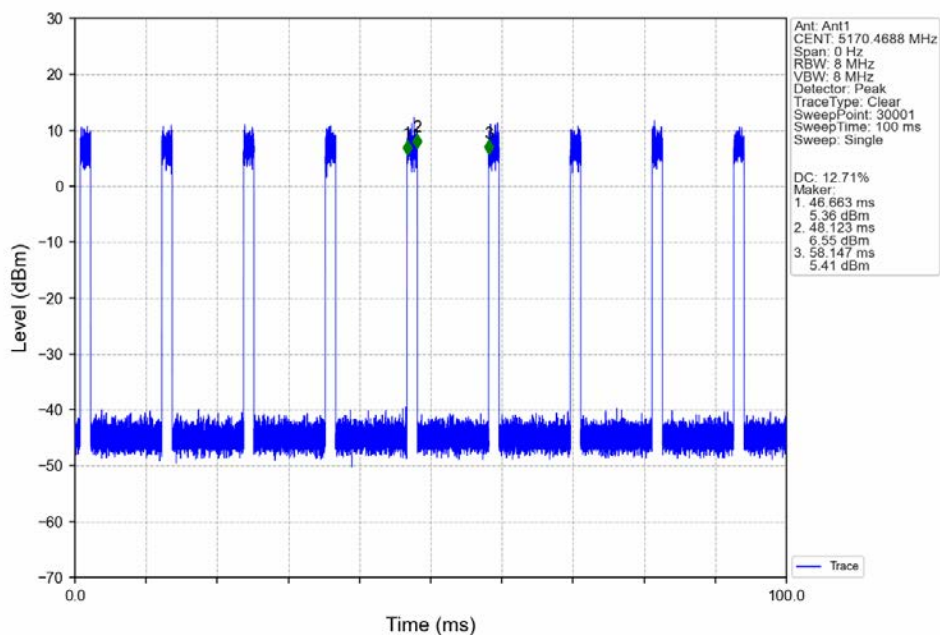


802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV

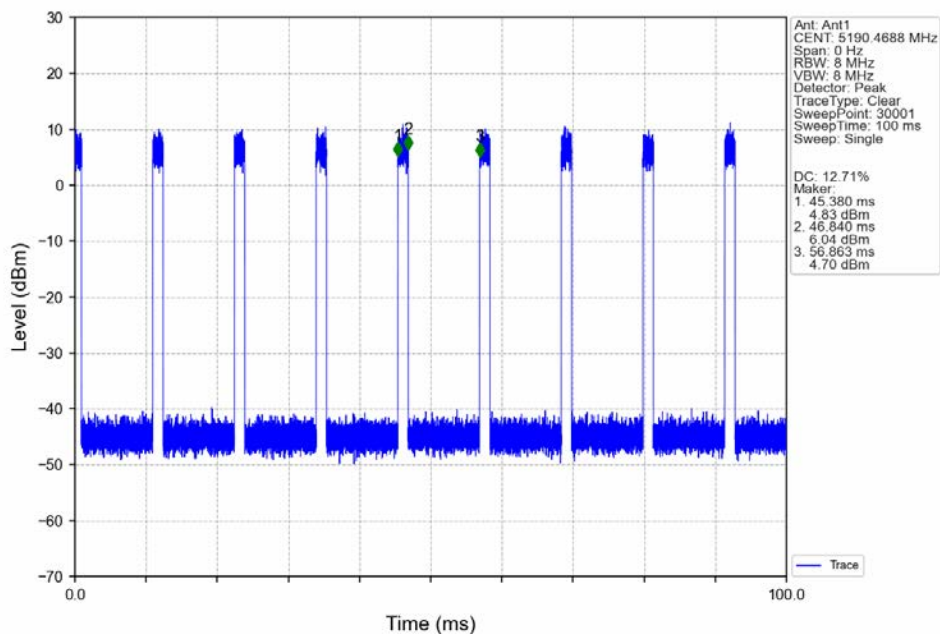




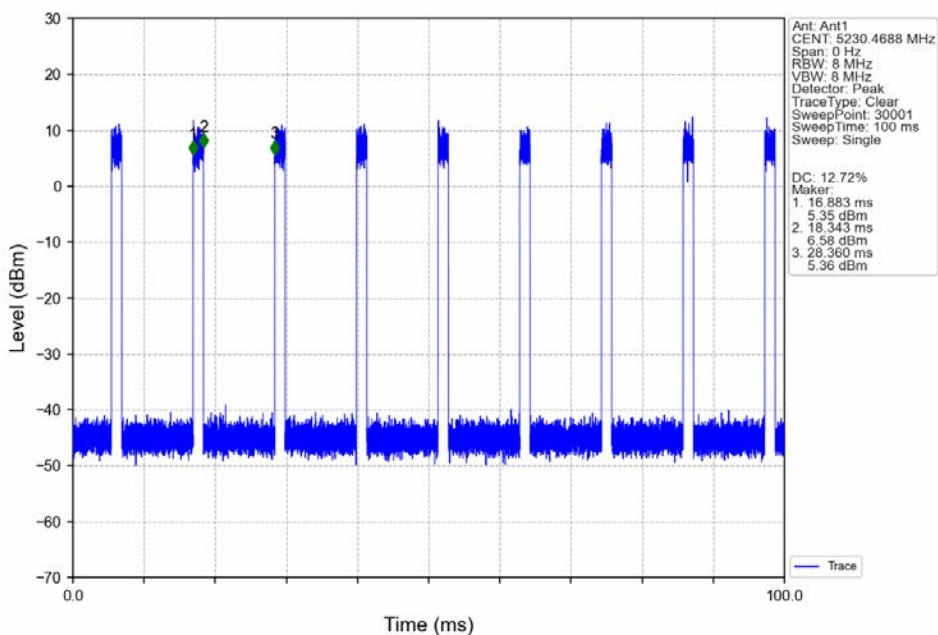
802.11ax(HEW20)_LCH_5180MHz_SU / Ant1_NTNV



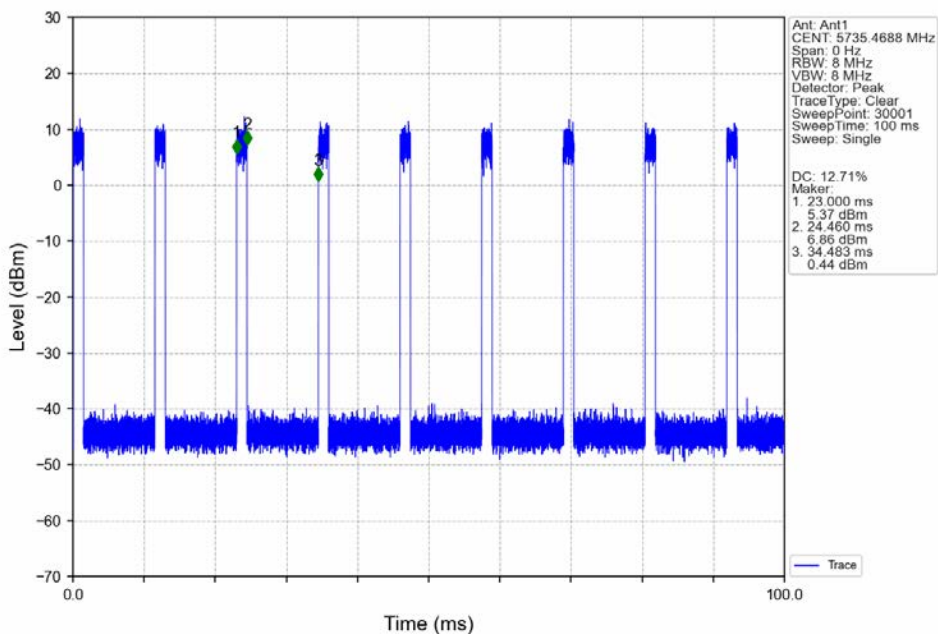
802.11ax(HEW20)_MCH_5200MHz_SU / Ant1_NTNV



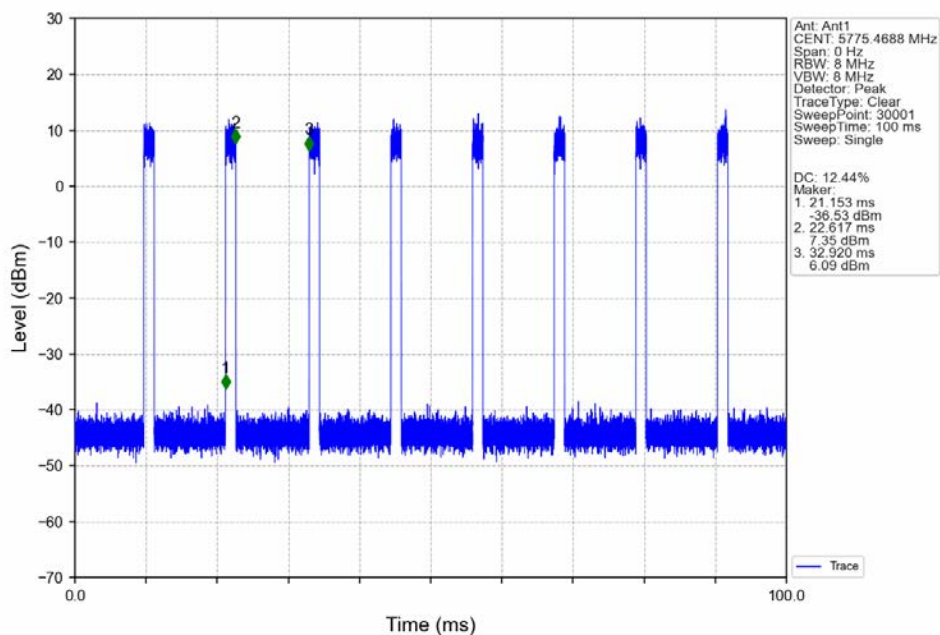
802.11ax(HEW20)_HCH_5240MHz_SU / Ant1_NTNV



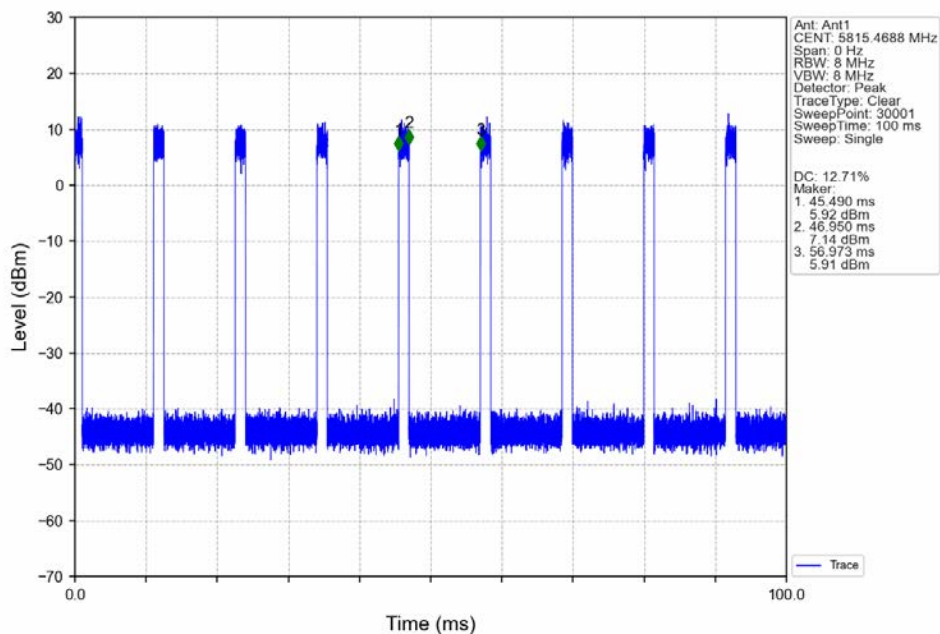
802.11ax(HEW20)_LCH_5745MHz_SU / Ant1_NTNV



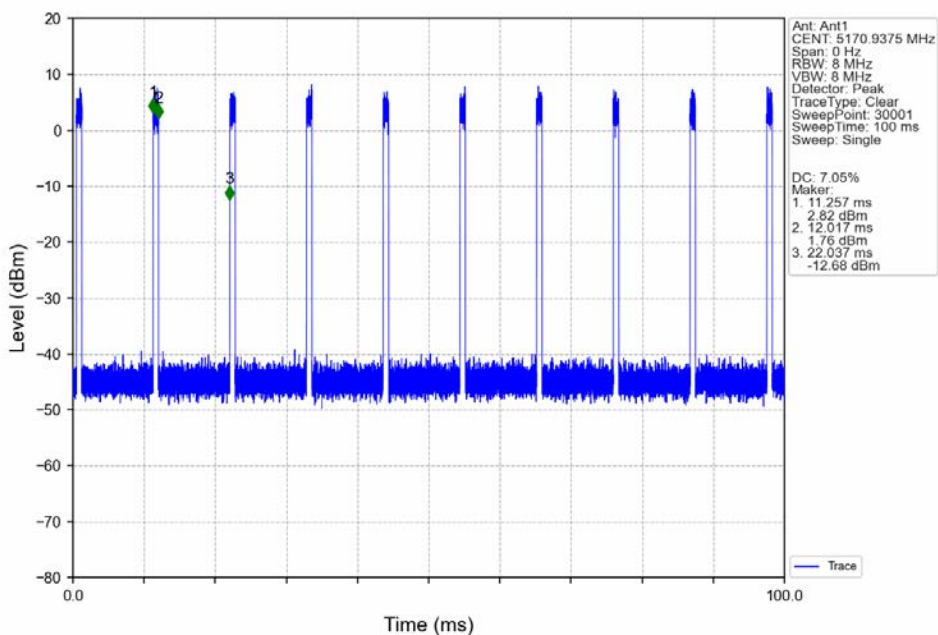
802.11ax(HEW20)_MCH_5785MHz_SU / Ant1_NTNV



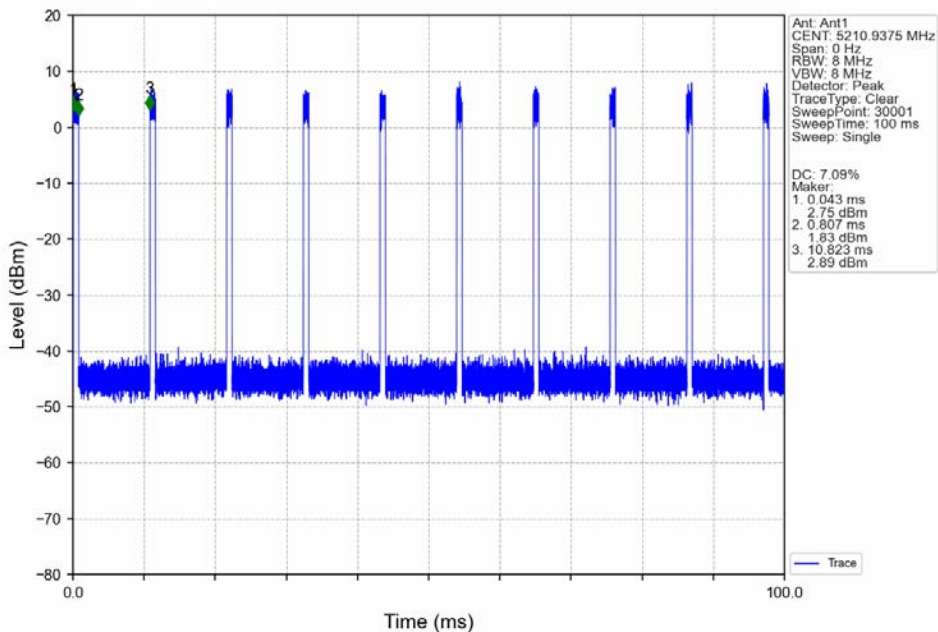
802.11ax(HEW20)_HCH_5825MHz_SU / Ant1_NTNV



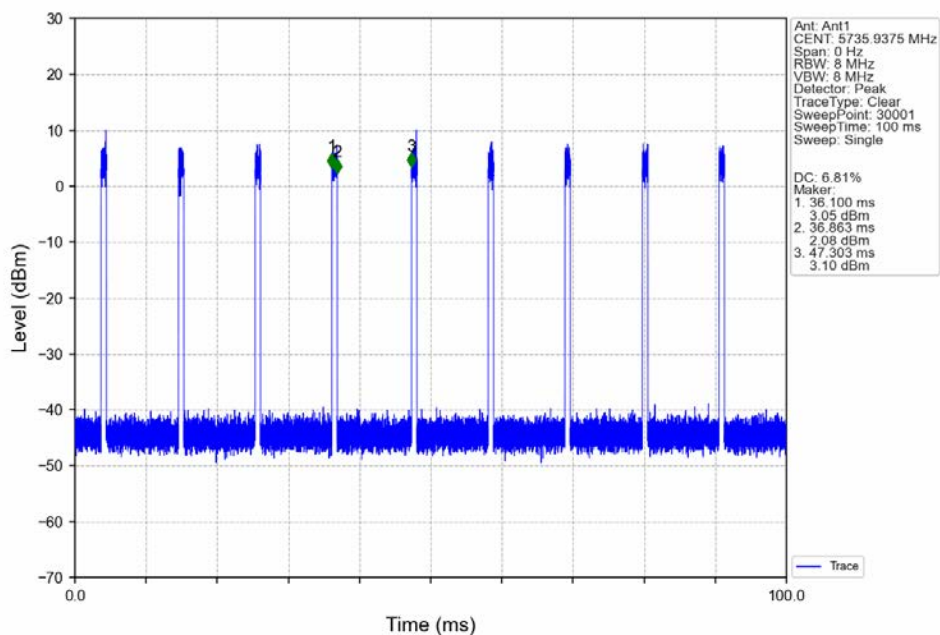
802.11ax(HEW40)_LCH_5190MHz_SU / Ant1_NTNV



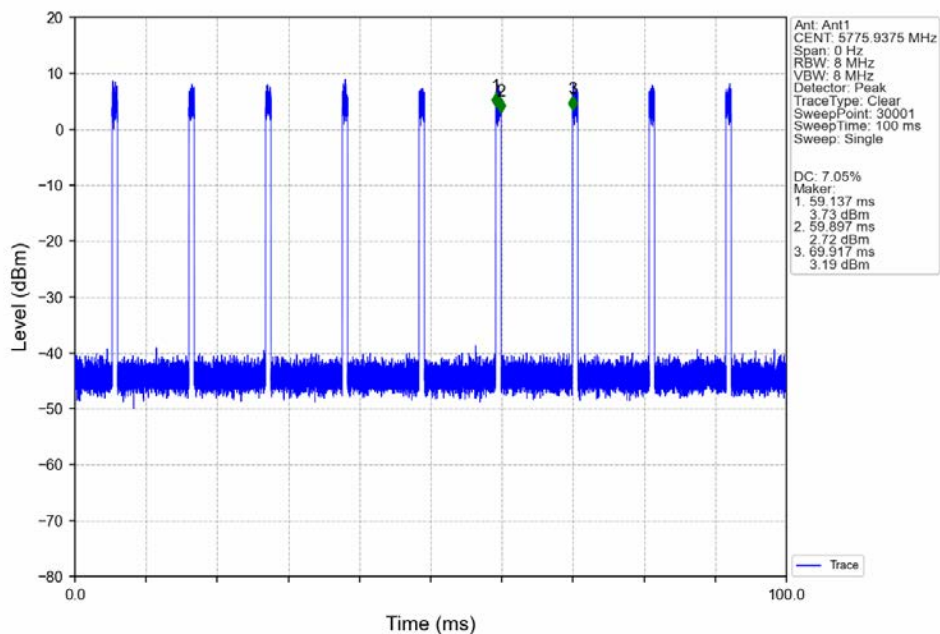
802.11ax(HEW40)_HCH_5230MHz_SU / Ant1_NTNV



802.11ax(HEW40)_LCH_5755MHz_SU / Ant1_NTNV



802.11ax(HEW40)_HCH_5795MHz_SU / Ant1_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	
802.11a	SISO	5180	/	/	1	17.446	/	Pass
		5200	/	/	1	17.574	/	Pass
		5240	/	/	1	17.659	/	Pass
		5745	/	/	1	17.692	/	Pass
		5785	/	/	1	17.766	/	Pass
		5825	/	/	1	17.772	/	Pass
802.11n (HT20)	SISO	5180	/	/	1	18.729	/	Pass
		5200	/	/	1	18.789	/	Pass
		5240	/	/	1	18.665	/	Pass
		5745	/	/	1	18.839	/	Pass
		5785	/	/	1	18.659	/	Pass
		5825	/	/	1	18.887	/	Pass
802.11n (HT40)	SISO	5190	/	/	1	37.135	/	Pass
		5230	/	/	1	36.940	/	Pass
		5755	/	/	1	37.528	/	Pass
		5795	/	/	1	37.102	/	Pass
802.11ac (VHT20)	SISO	5180	/	/	1	18.512	/	Pass
		5200	/	/	1	18.893	/	Pass
		5240	/	/	1	18.764	/	Pass
		5745	/	/	1	18.914	/	Pass
		5785	/	/	1	18.865	/	Pass
		5825	/	/	1	18.937	/	Pass
802.11ac (VHT40)	SISO	5190	/	/	1	36.997	/	Pass
		5230	/	/	1	36.997	/	Pass
		5755	/	/	1	37.085	/	Pass
		5795	/	/	1	37.167	/	Pass
802.11ac (VHT80)	SISO	5210	/	/	1	76.149	/	Pass
		5775	/	/	1	76.826	/	Pass
802.11ax (HEW20)	SISO	5180	SU	/	1	19.335	/	Pass
		5200	SU	/	1	19.325	/	Pass
		5240	SU	/	1	19.233	/	Pass
		5745	SU	/	1	19.410	/	Pass
		5785	SU	/	1	19.366	/	Pass
		5825	SU	/	1	19.533	/	Pass
802.11ax (HEW40)	SISO	5190	SU	/	1	38.285	/	Pass
		5230	SU	/	1	38.237	/	Pass
		5755	SU	/	1	38.406	/	Pass
		5795	SU	/	1	38.343	/	Pass

2.1.2 26dB BW

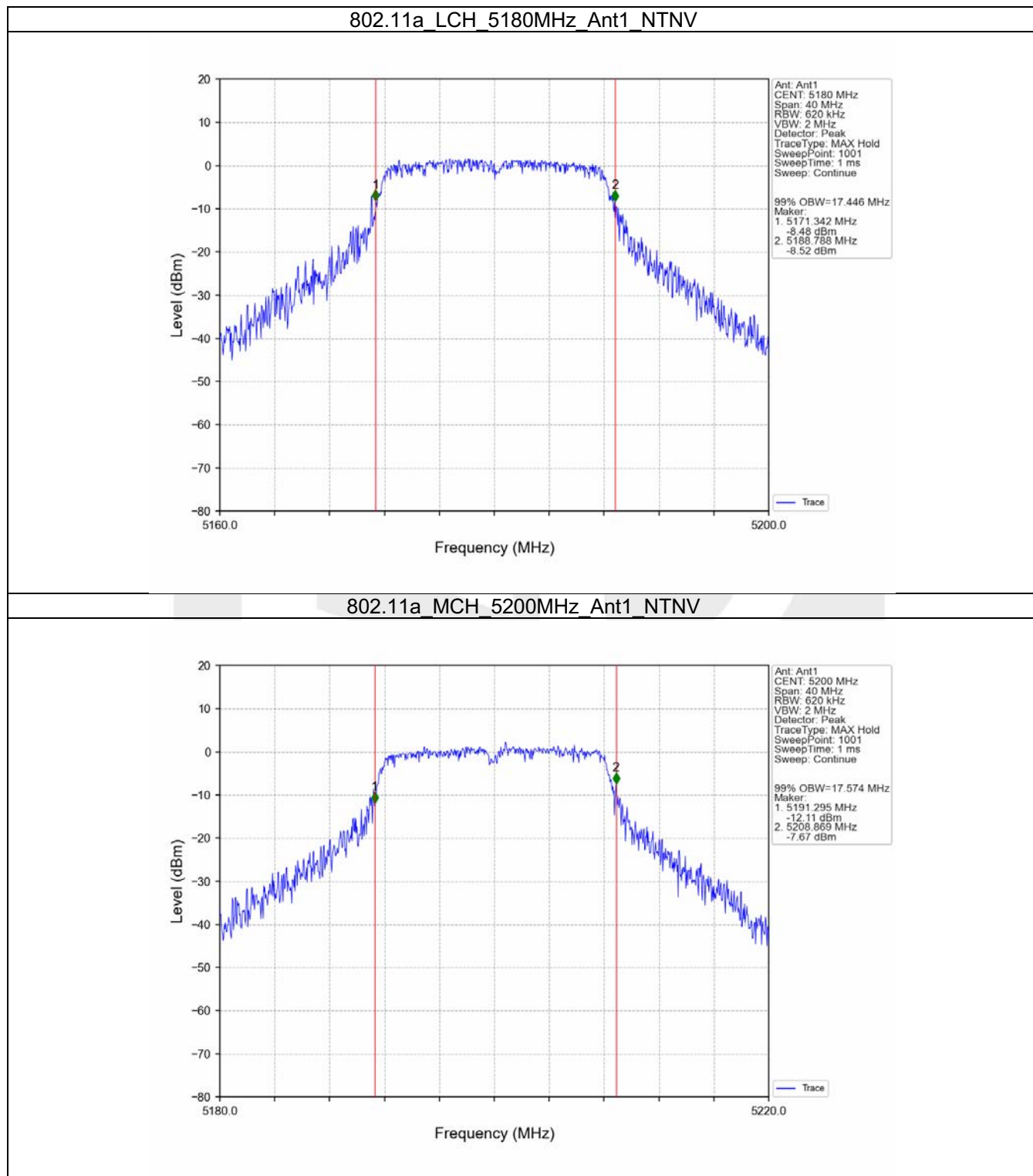
Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11a	SISO	5180	/	/	1	24.224	/	Pass
		5200	/	/	1	25.387	/	Pass
		5240	/	/	1	25.918	/	Pass
802.11n (HT20)	SISO	5180	/	/	1	26.231	/	Pass
		5200	/	/	1	26.703	/	Pass
		5240	/	/	1	26.710	/	Pass
802.11n (HT40)	SISO	5190	/	/	1	46.392	/	Pass
		5230	/	/	1	44.511	/	Pass
802.11ac (VHT20)	SISO	5180	/	/	1	27.272	/	Pass
		5200	/	/	1	26.873	/	Pass
		5240	/	/	1	26.427	/	Pass
802.11ac (VHT40)	SISO	5190	/	/	1	45.036	/	Pass
		5230	/	/	1	45.624	/	Pass
802.11ac (VHT80)	SISO	5210	/	/	1	86.419	/	Pass
802.11ax (HEW20)	SISO	5180	SU	/	1	25.819	/	Pass
		5200	SU	/	1	28.157	/	Pass
		5240	SU	/	1	25.306	/	Pass
802.11ax (HEW40)	SISO	5190	SU	/	1	45.386	/	Pass
		5230	SU	/	1	46.454	/	Pass

2.1.3 6dB BW

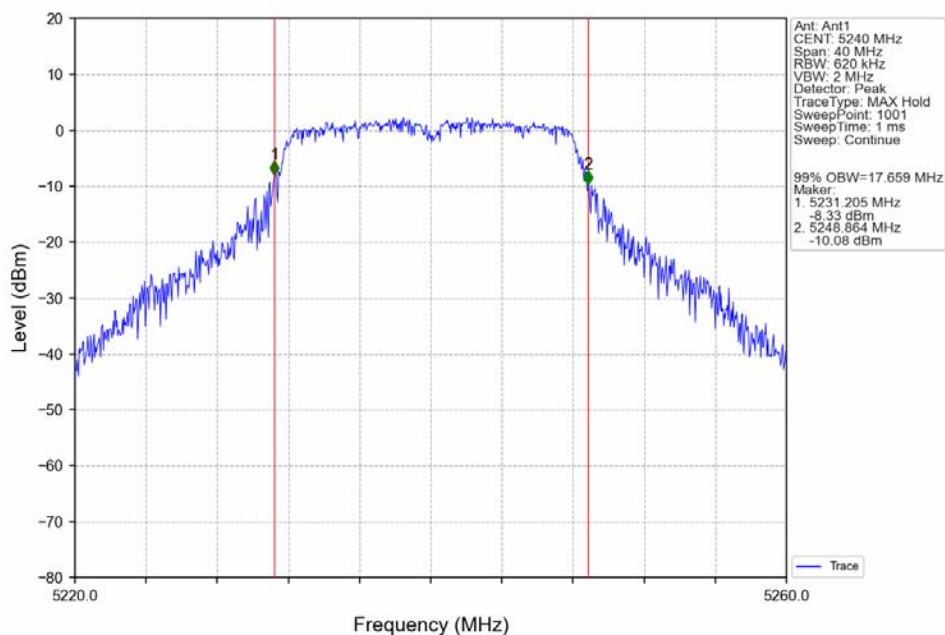
Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11a	SISO	5745	/	/	1	16.438	>=0.5	Pass
		5785	/	/	1	16.492	>=0.5	Pass
		5825	/	/	1	16.435	>=0.5	Pass
802.11n (HT20)	SISO	5745	/	/	1	17.621	>=0.5	Pass
		5785	/	/	1	17.690	>=0.5	Pass
		5825	/	/	1	17.457	>=0.5	Pass
802.11n (HT40)	SISO	5755	/	/	1	36.409	>=0.5	Pass
		5795	/	/	1	35.988	>=0.5	Pass
802.11ac (VHT20)	SISO	5745	/	/	1	17.614	>=0.5	Pass
		5785	/	/	1	17.651	>=0.5	Pass
		5825	/	/	1	17.624	>=0.5	Pass
802.11ac (VHT40)	SISO	5755	/	/	1	36.364	>=0.5	Pass
		5795	/	/	1	36.330	>=0.5	Pass
802.11ac (VHT80)	SISO	5775	/	/	1	75.578	>=0.5	Pass
802.11ax (HEW20)	SISO	5745	SU	/	1	18.981	>=0.5	Pass
		5785	SU	/	1	19.158	>=0.5	Pass
		5825	SU	/	1	19.034	>=0.5	Pass
802.11ax (HEW40)	SISO	5755	SU	/	1	37.749	>=0.5	Pass
		5795	SU	/	1	37.964	>=0.5	Pass

2.2 Test Graph

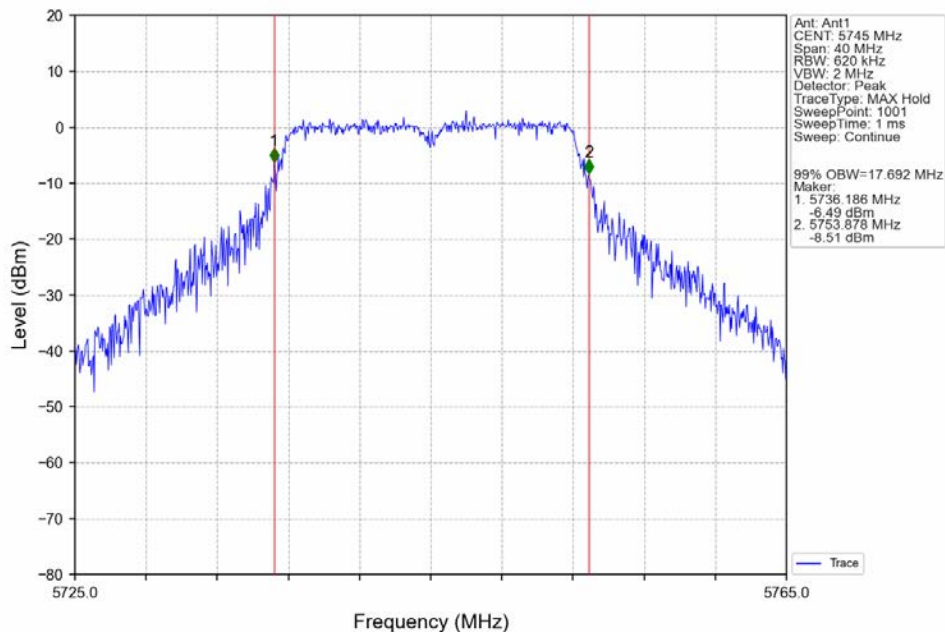
2.2.1 OBW



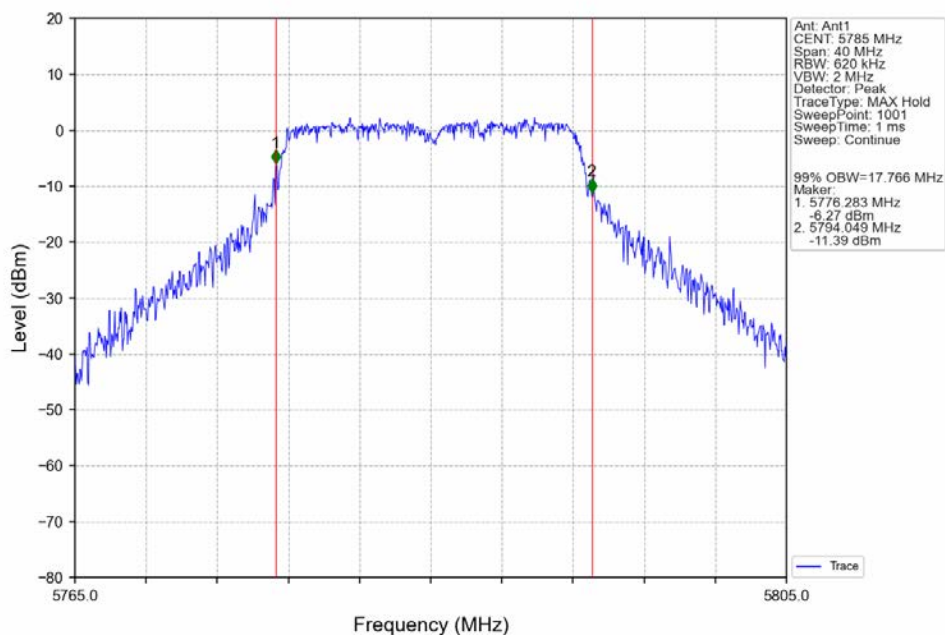
802.11a_HCH_5240MHz_Ant1_NTNV



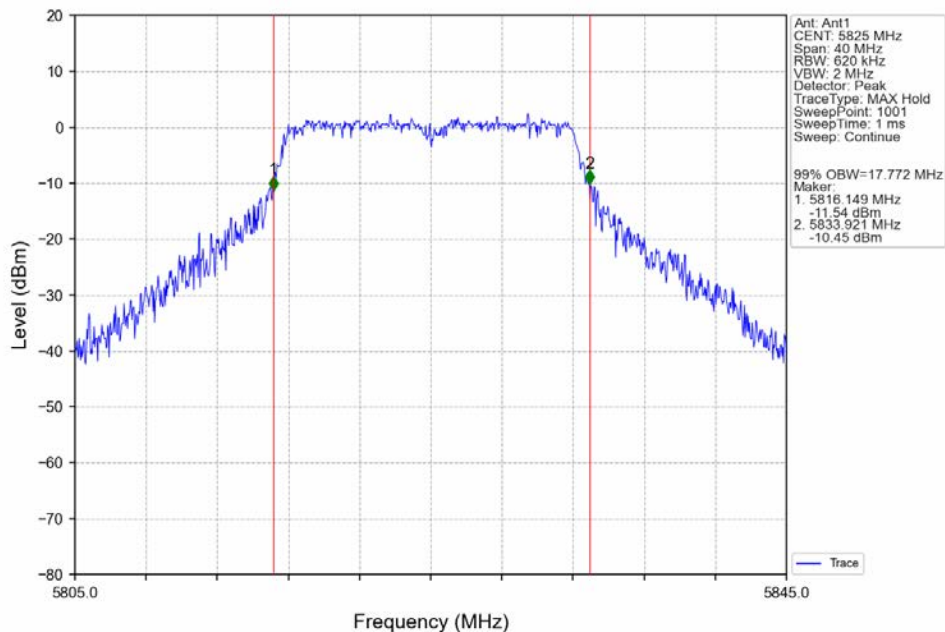
802.11a_LCH_5745MHz_Ant1_NTNV

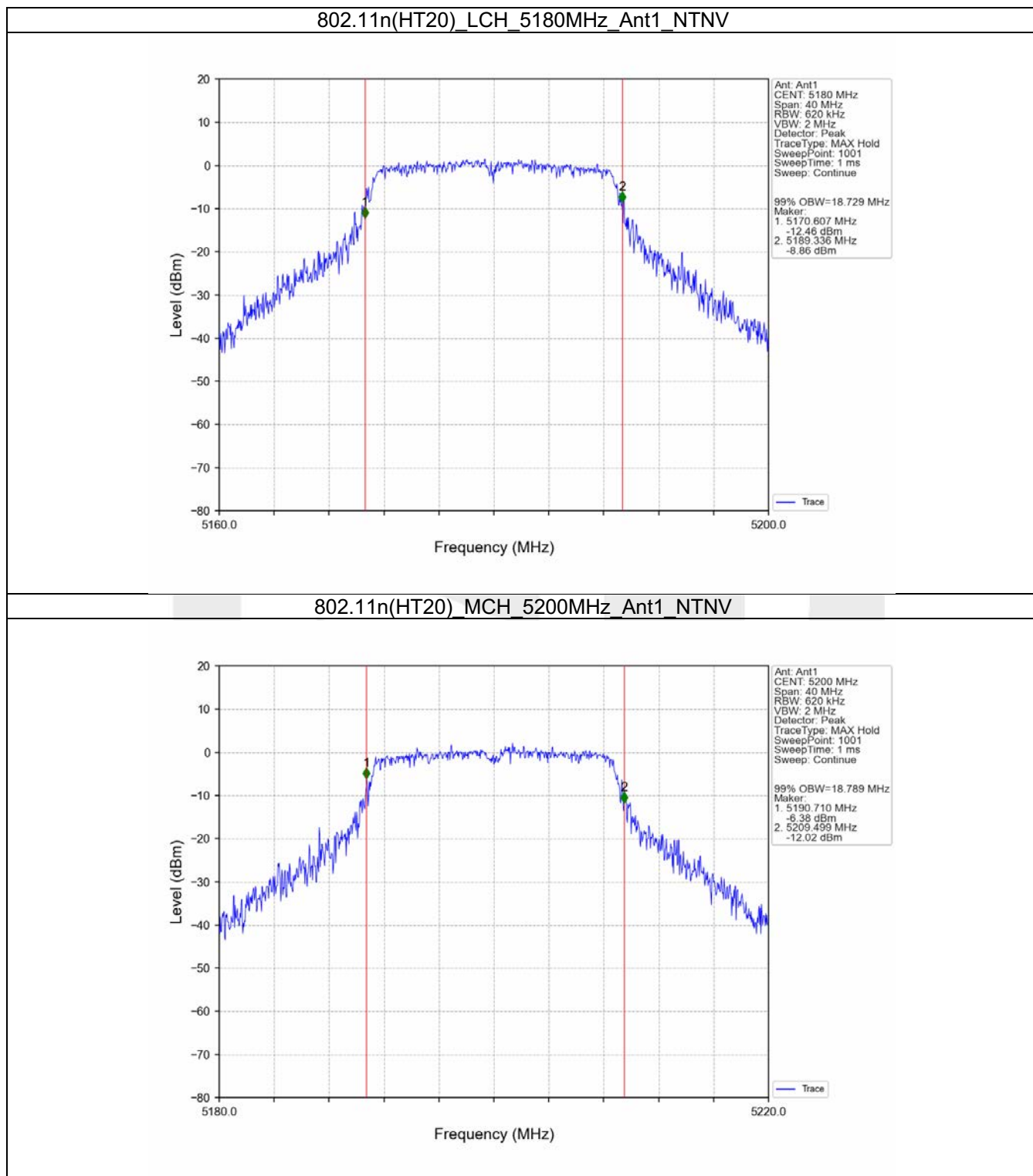


802.11a_MCH_5785MHz_Ant1_NTNV

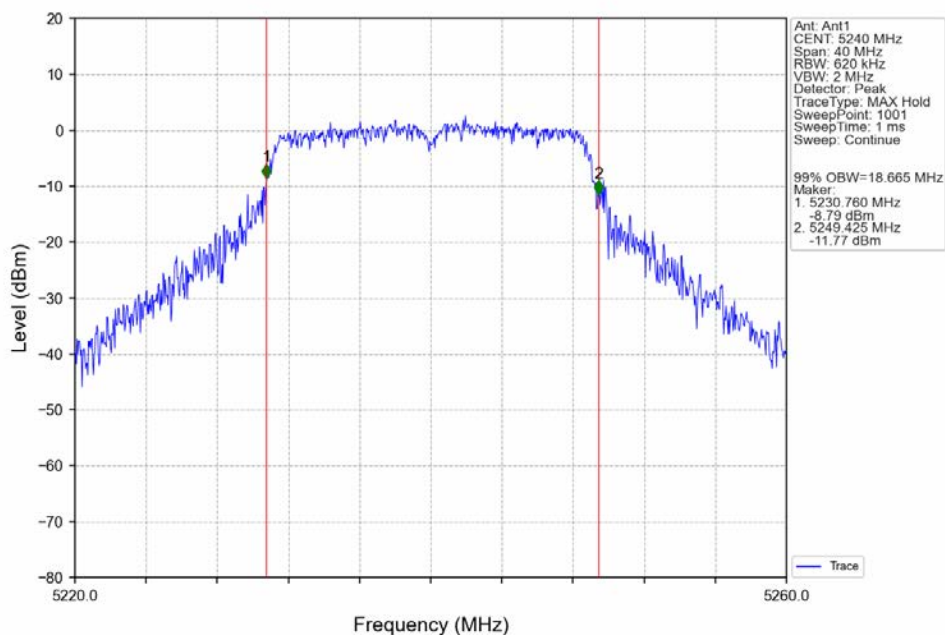


802.11a_HCH_5825MHz_Ant1_NTNV

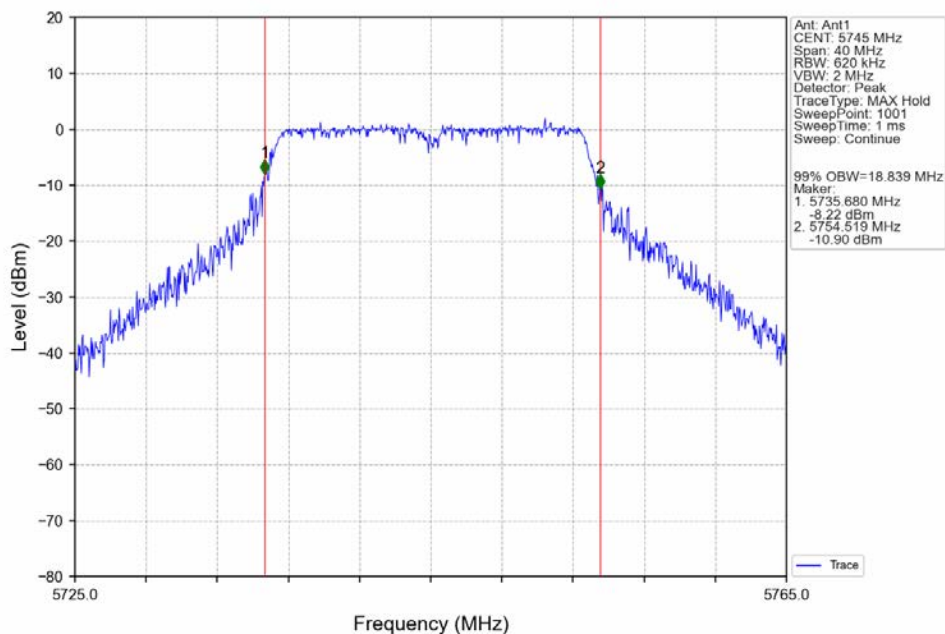




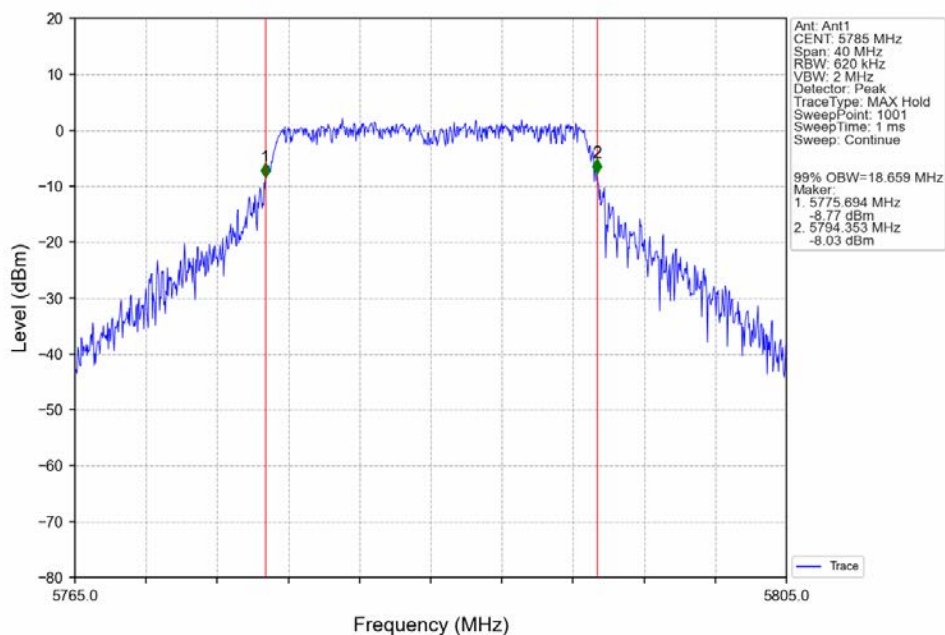
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



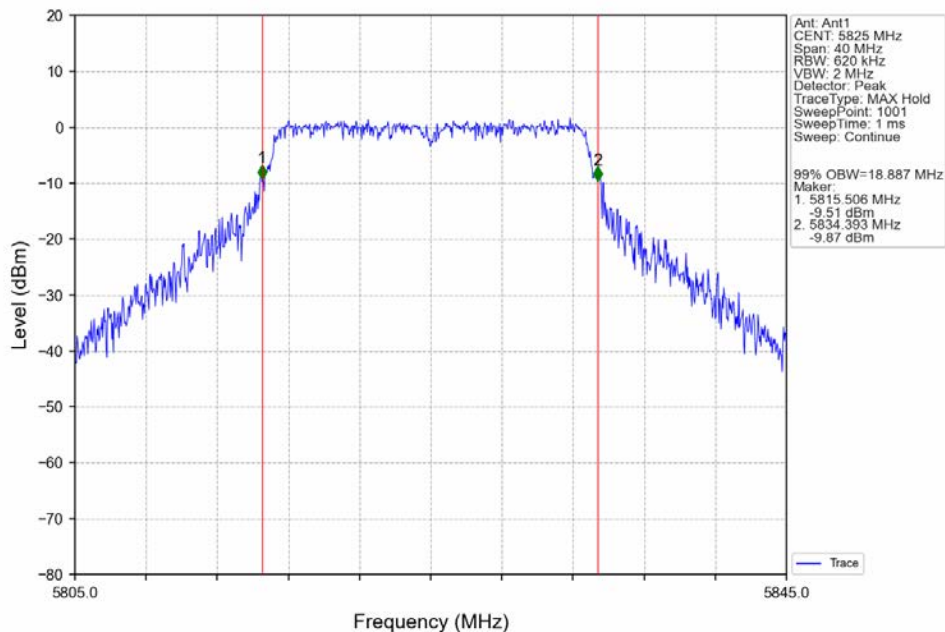
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



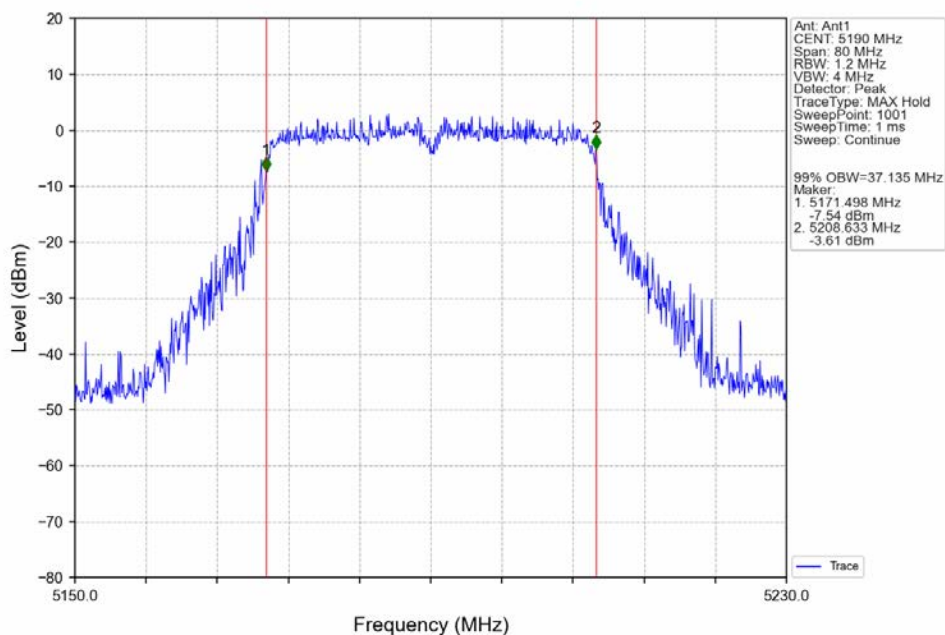
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



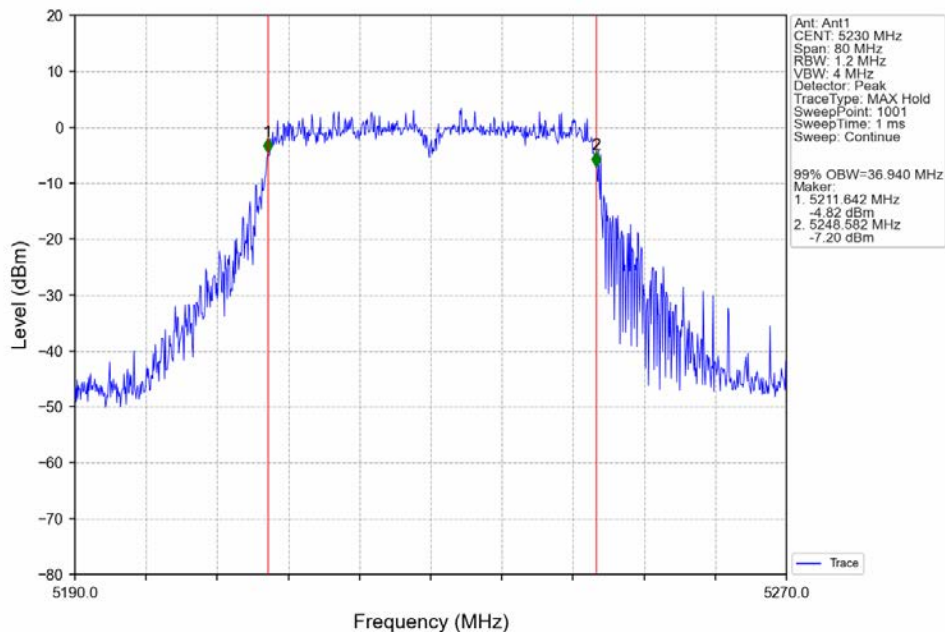
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



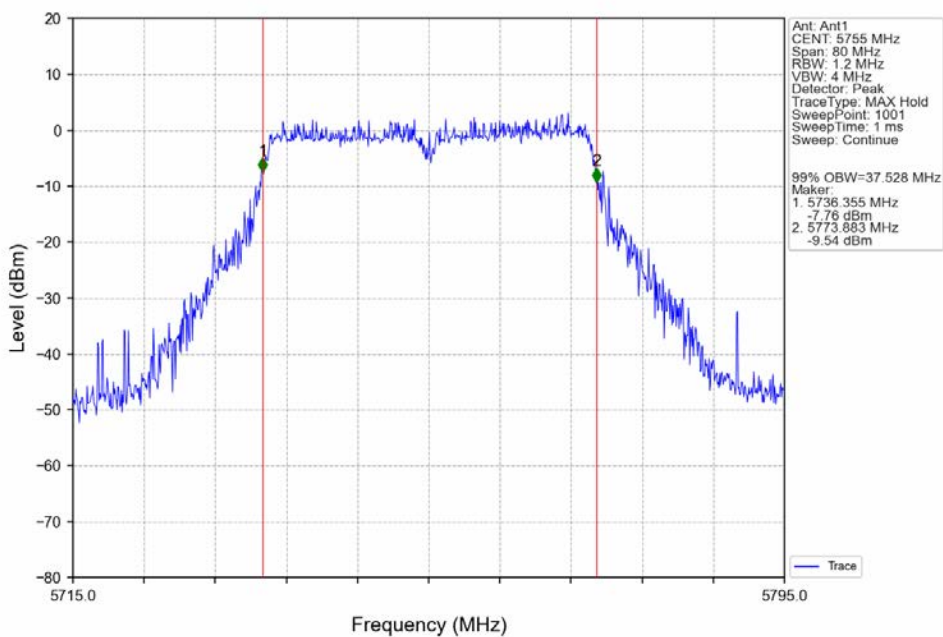
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



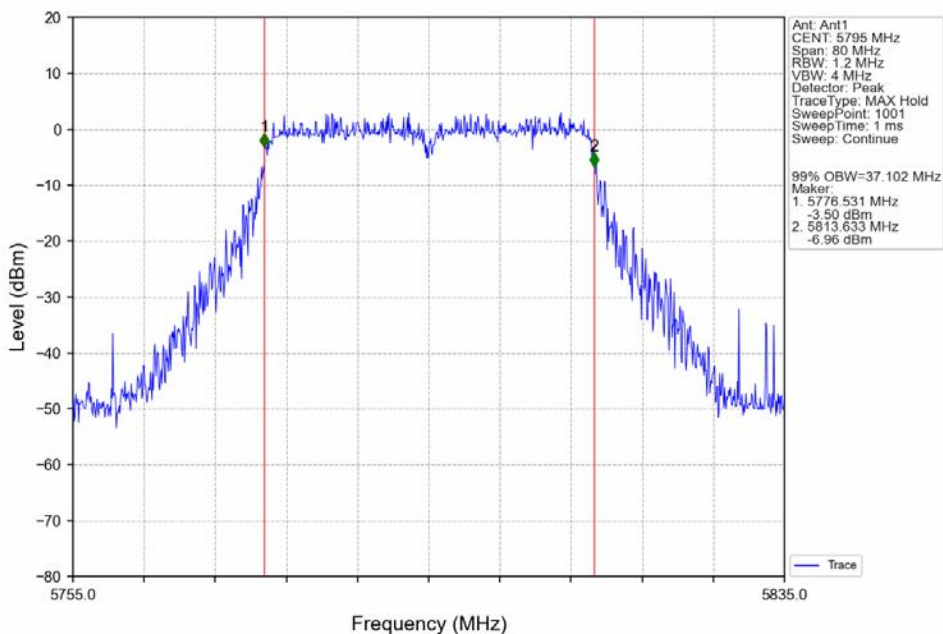
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV

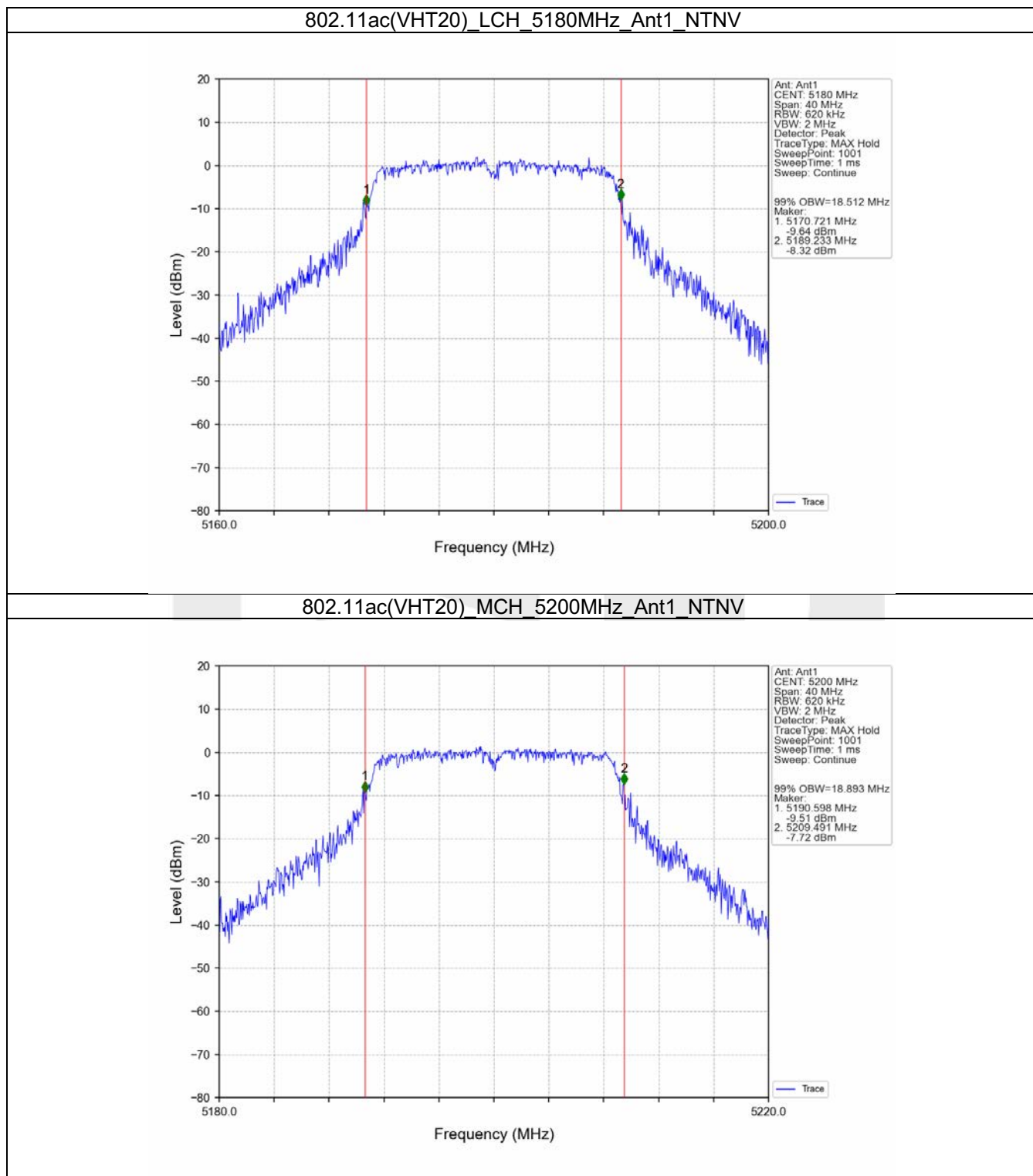


802.11n(HT40)_LCH_5755MHz_Ant1_NTNV

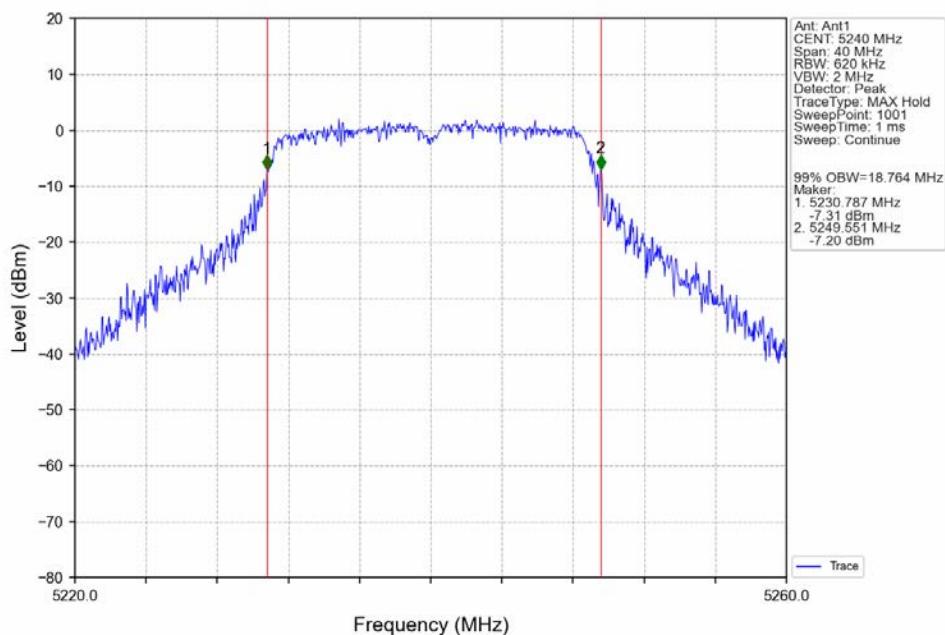


802.11n(HT40)_HCH_5795MHz_Ant1_NTNV

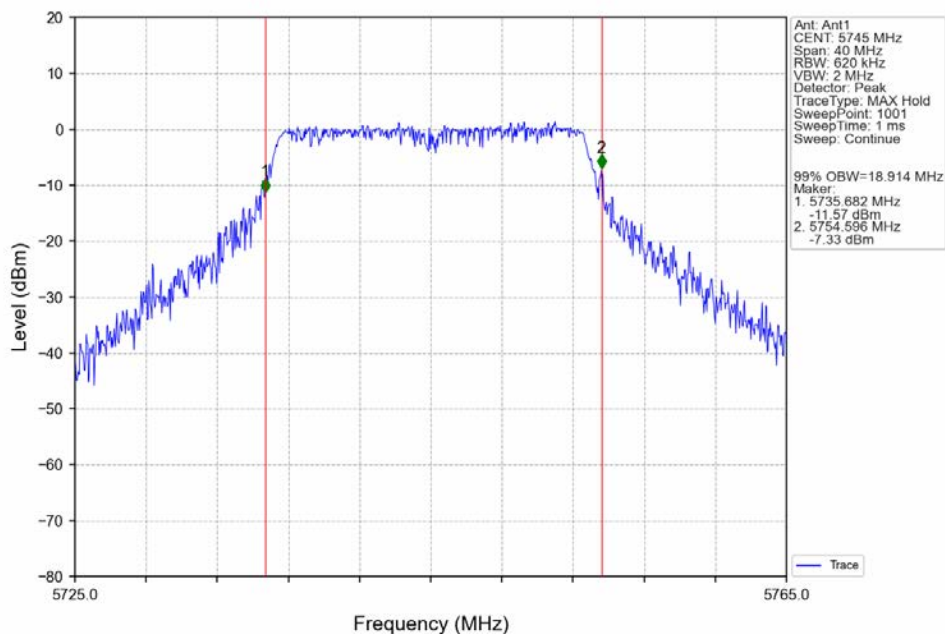


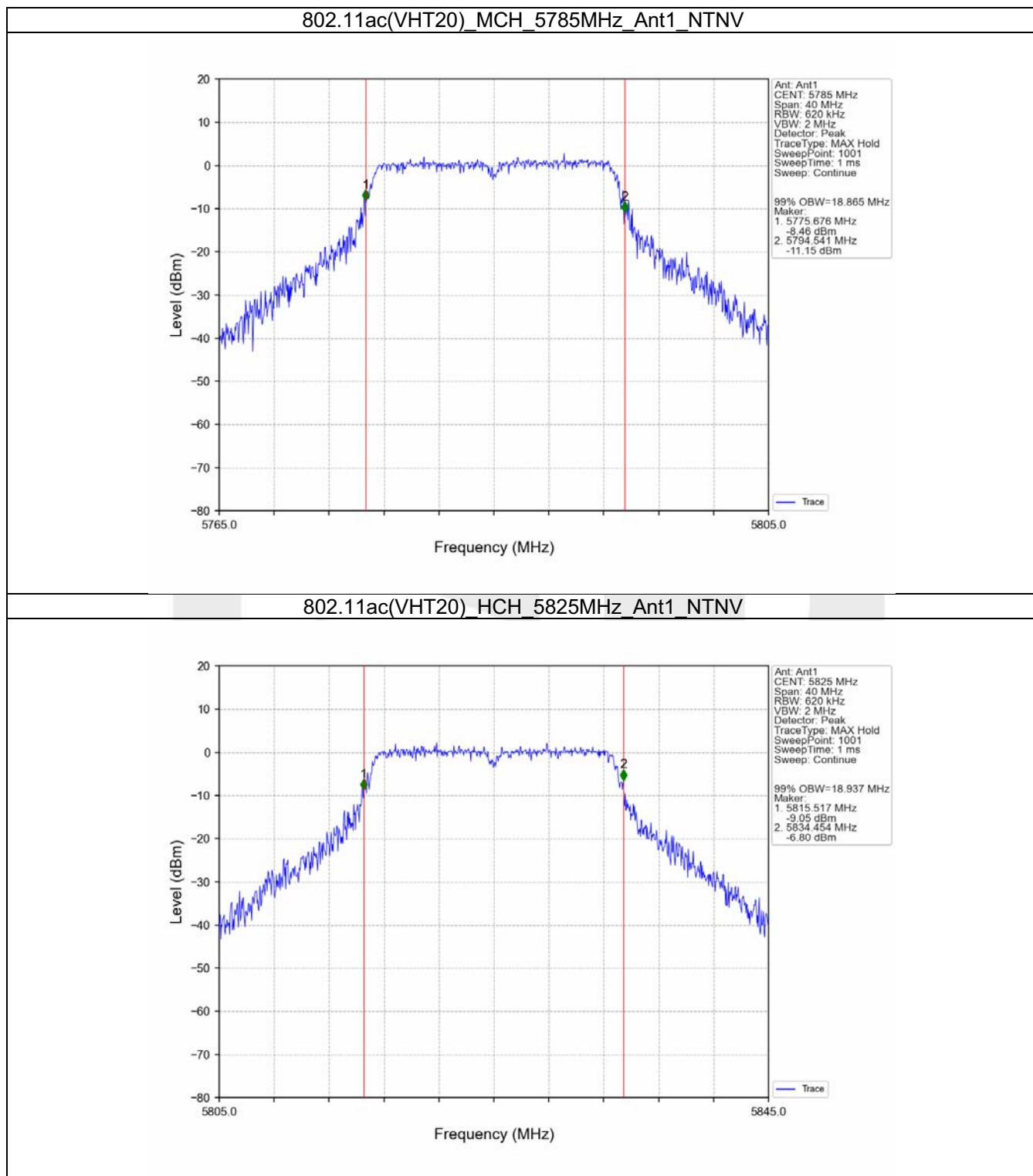


802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV

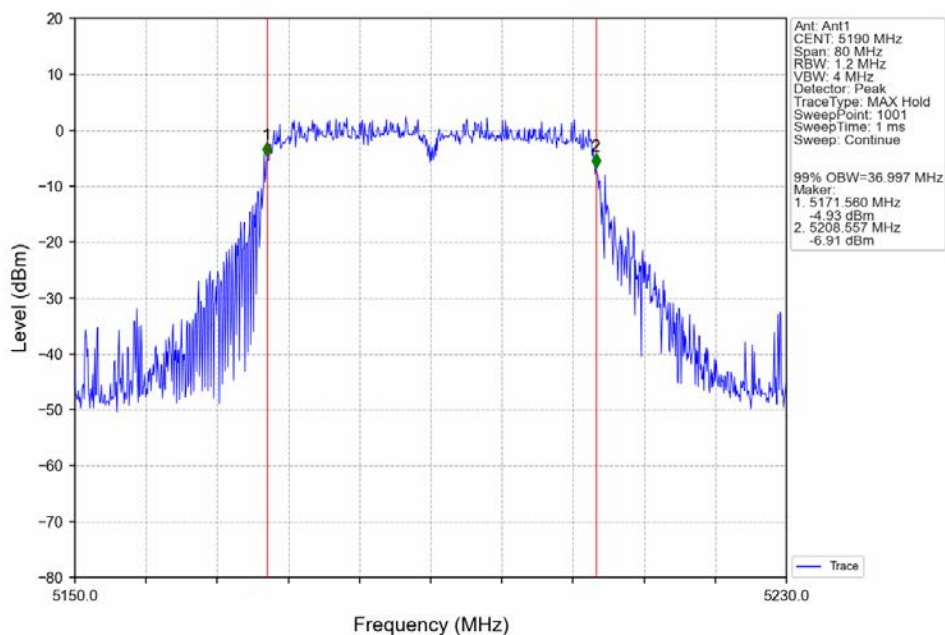


802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV

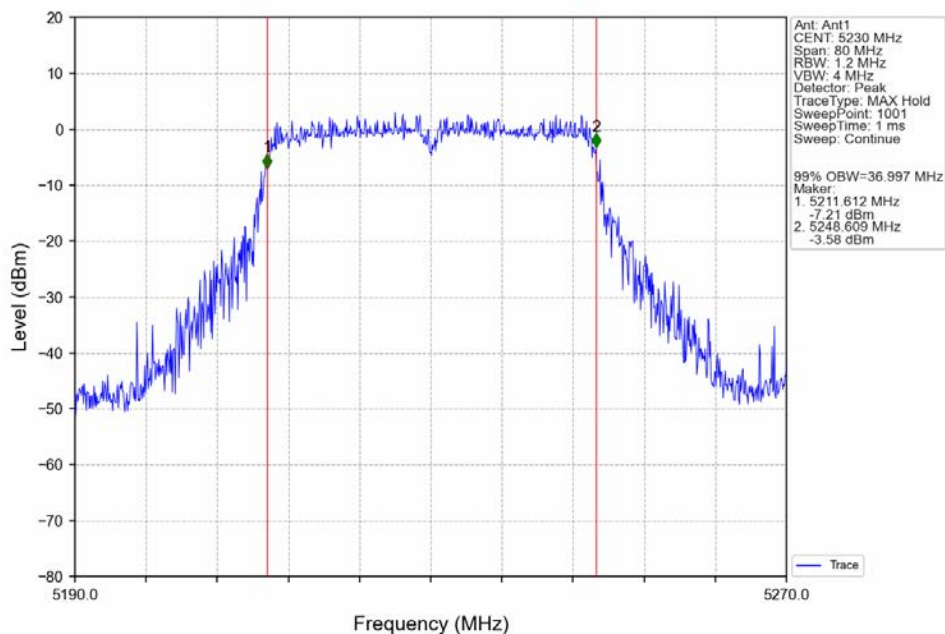




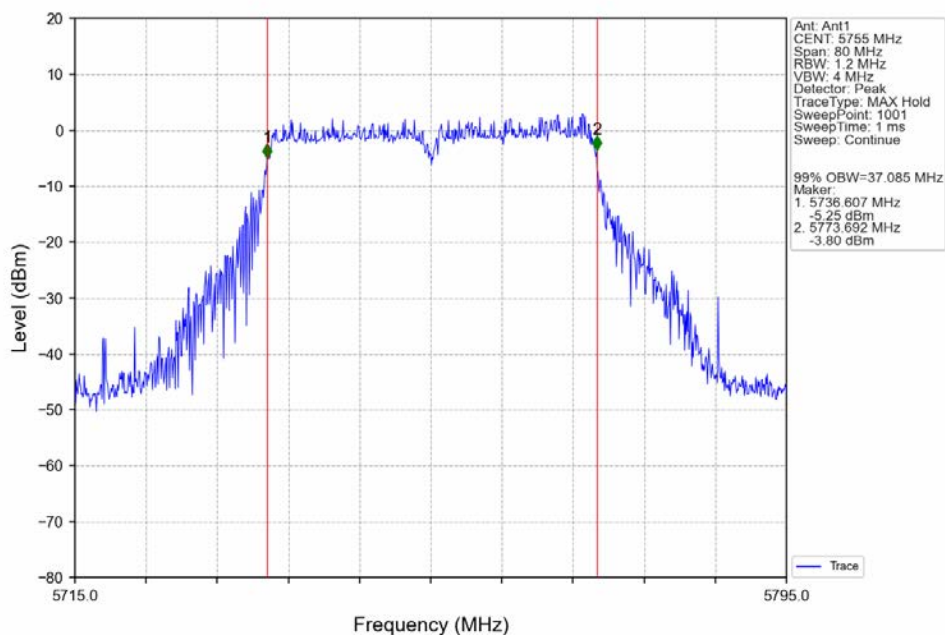
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



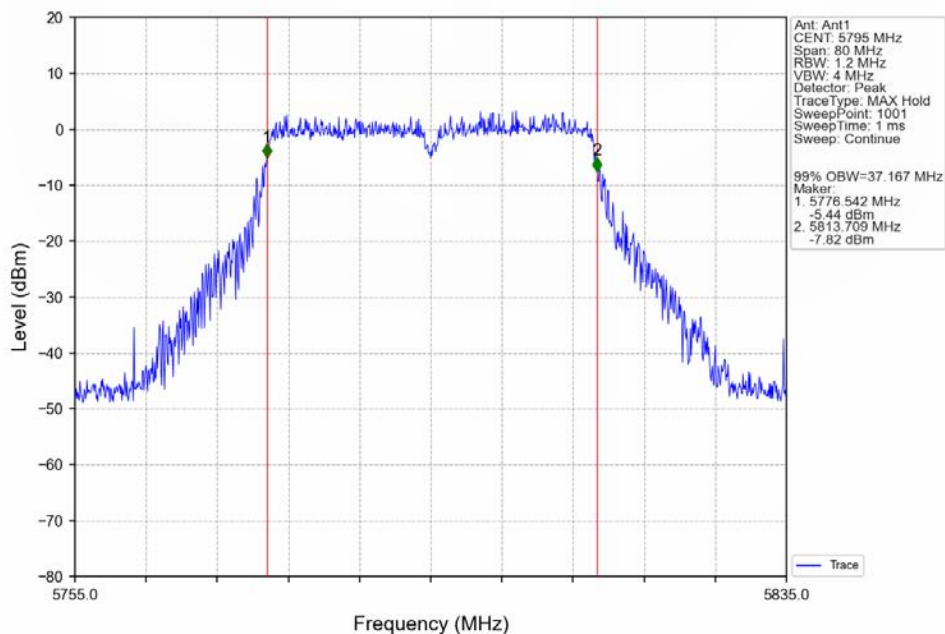
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV

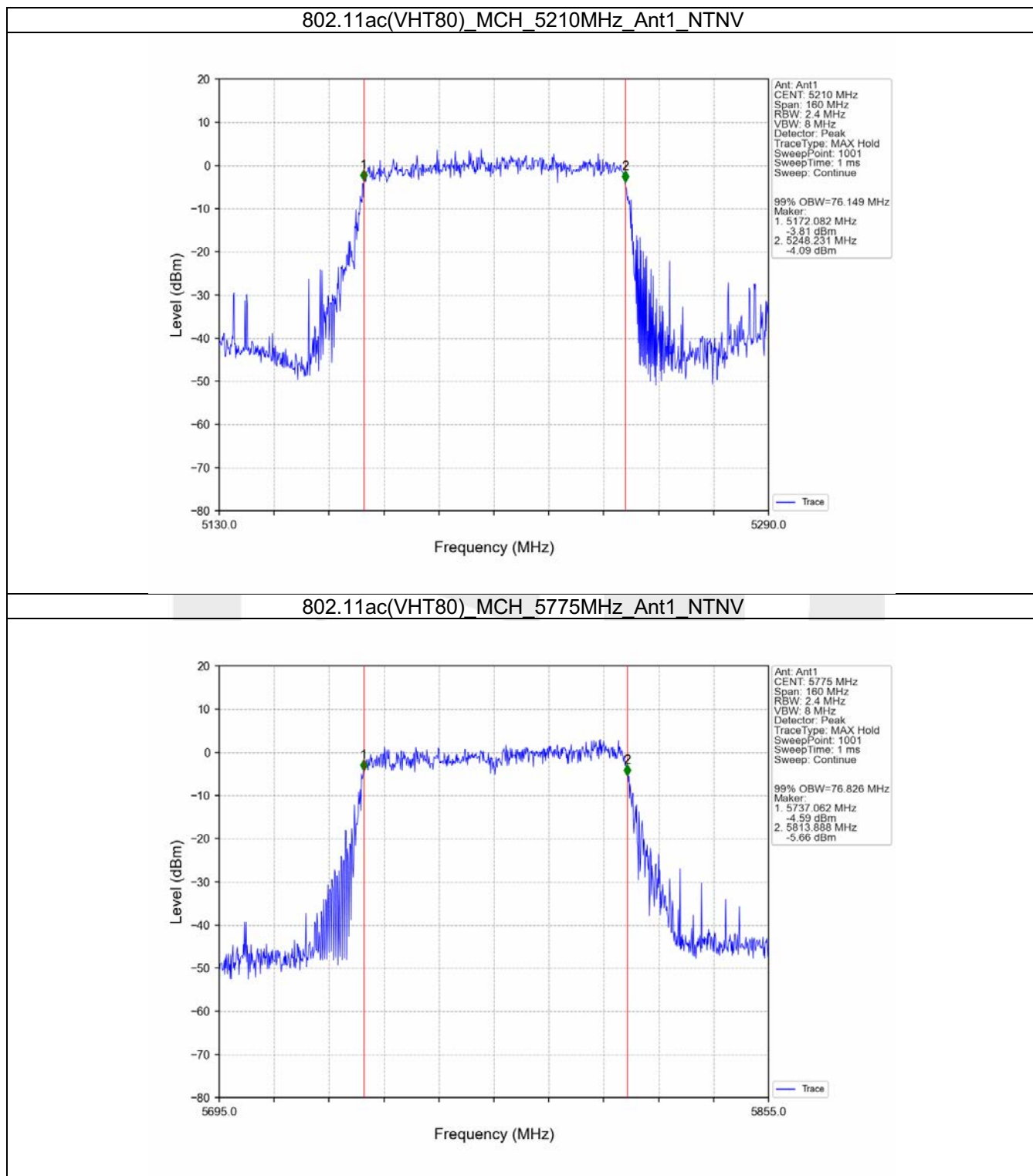


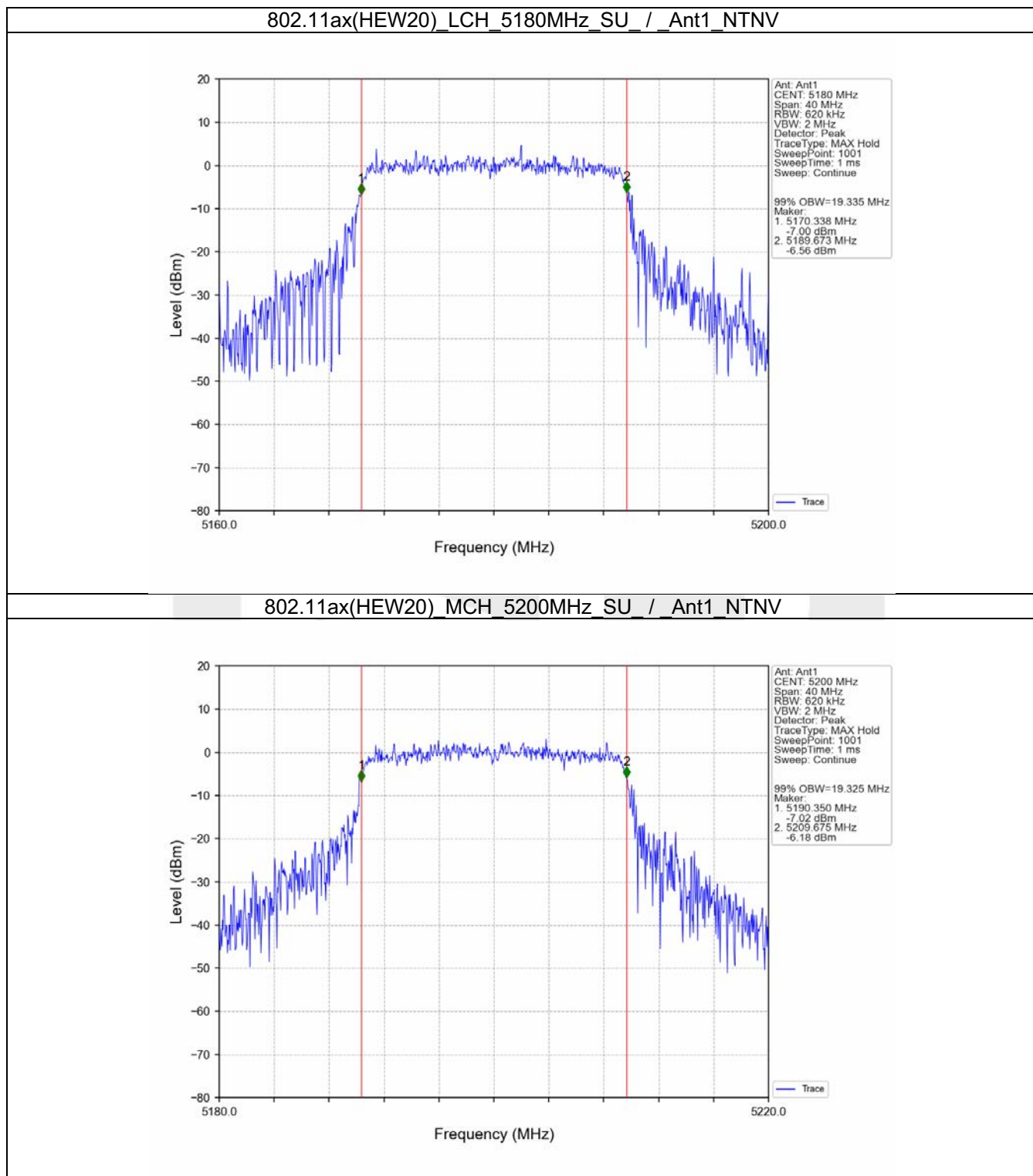
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV

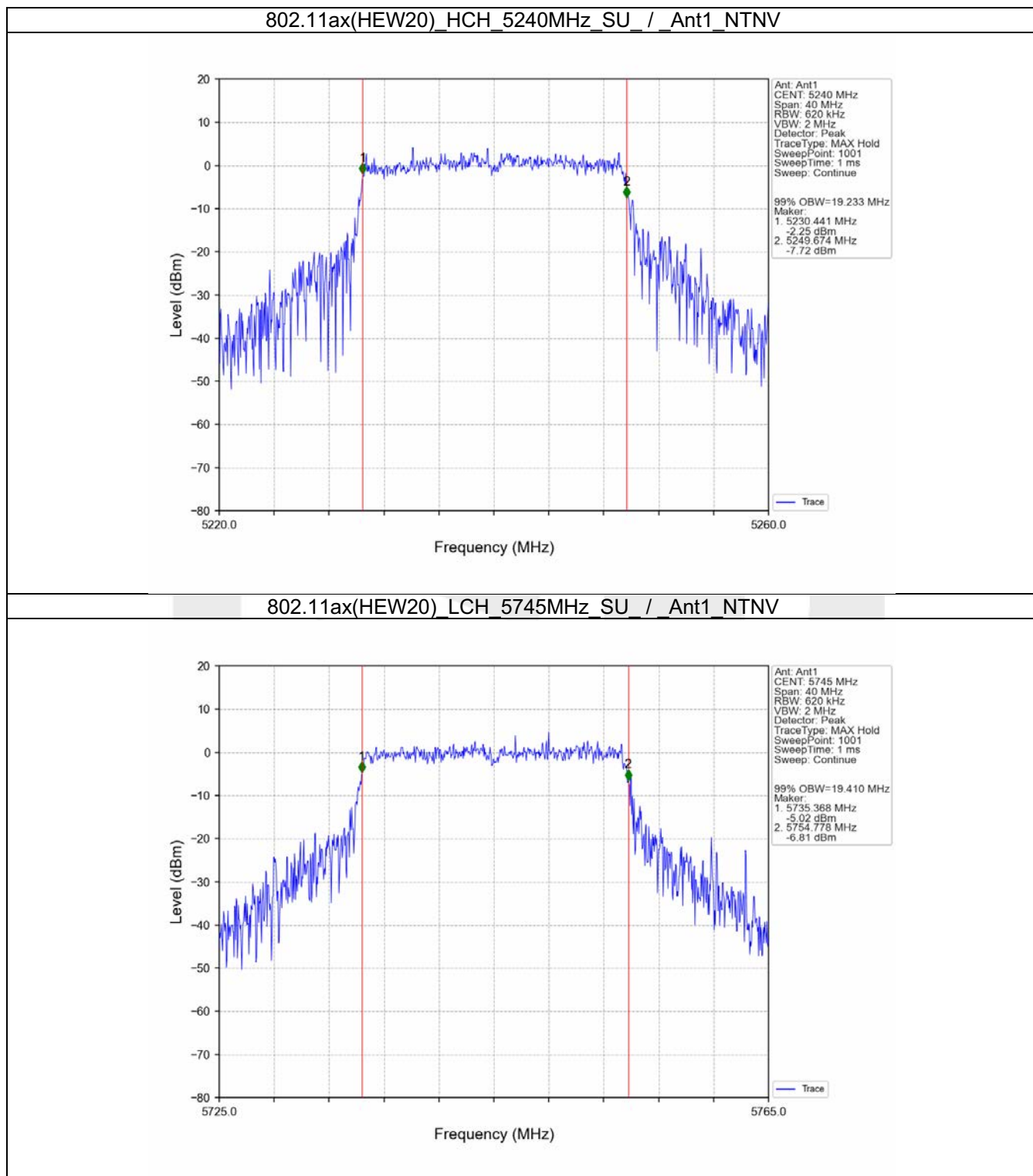


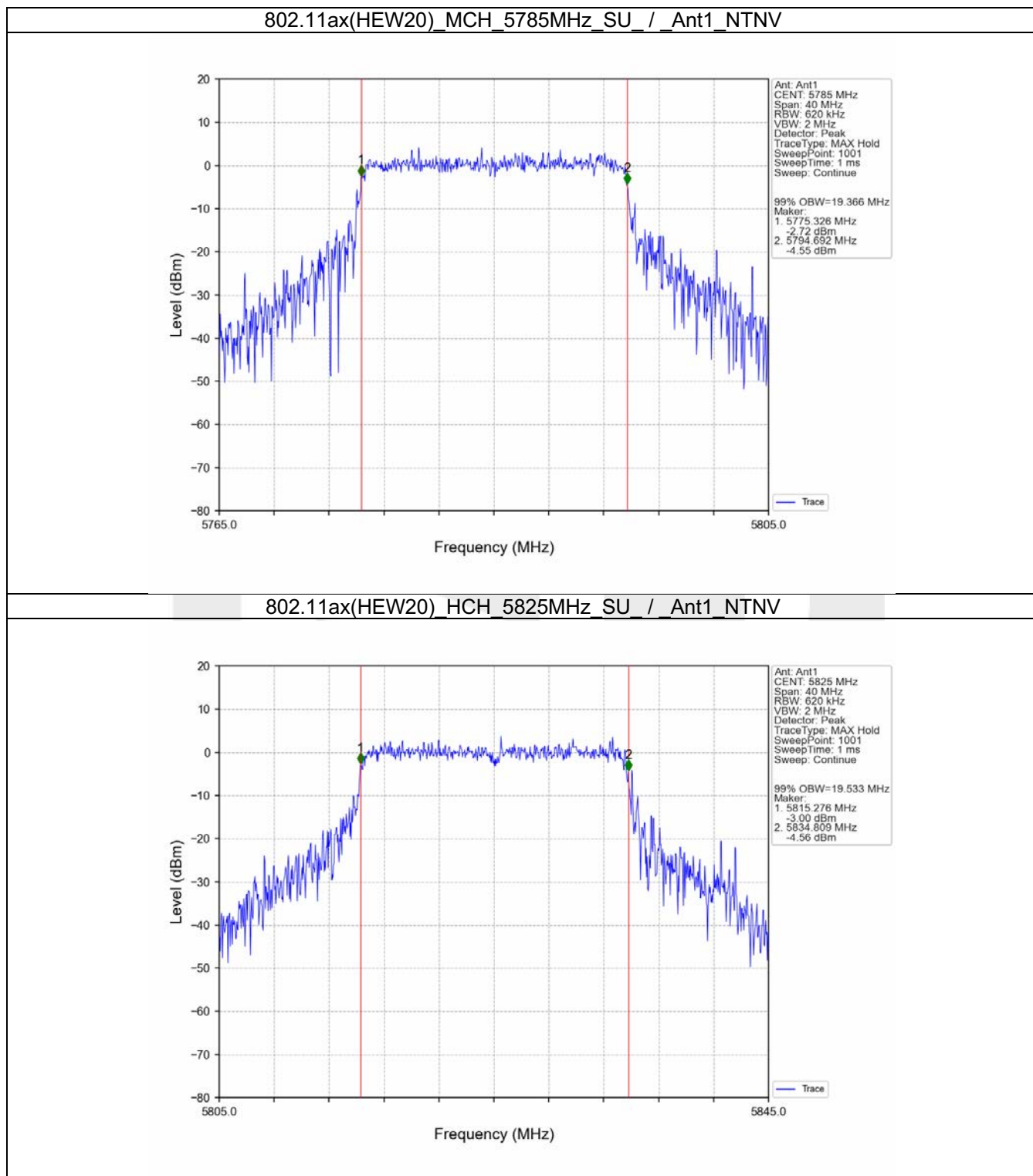
802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



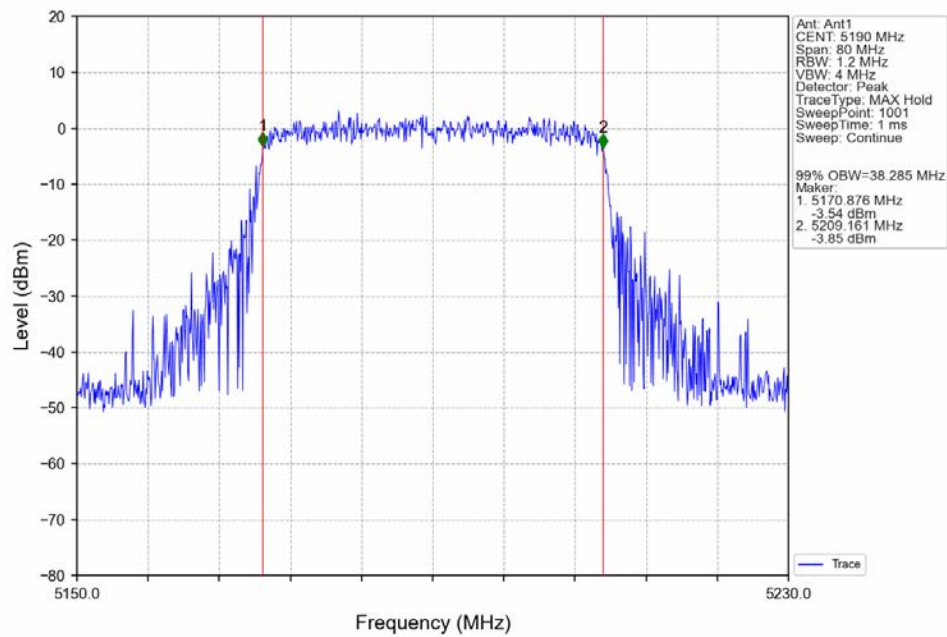




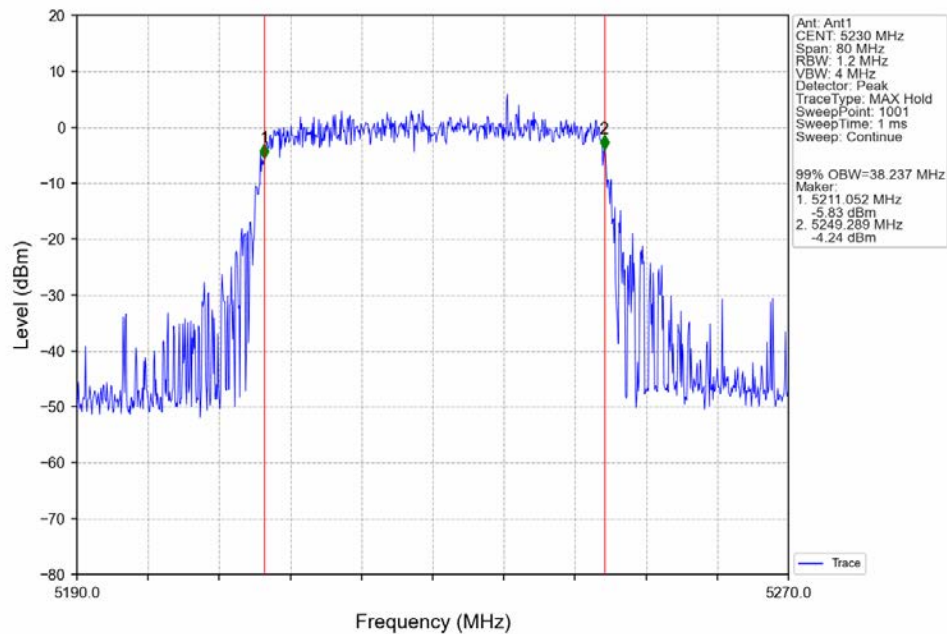




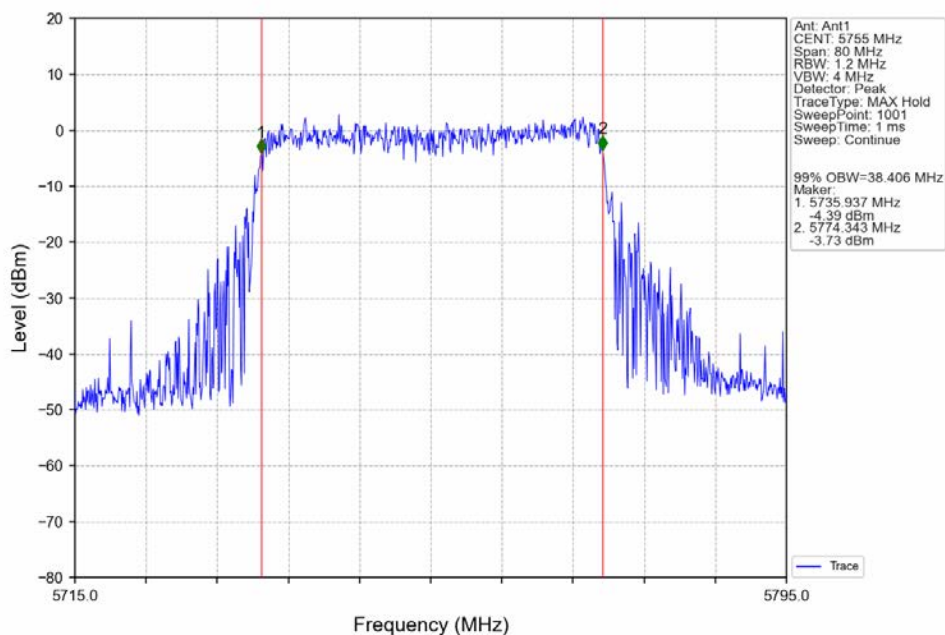
802.11ax(HEW40)_LCH_5190MHz_SU / Ant1_NTNV



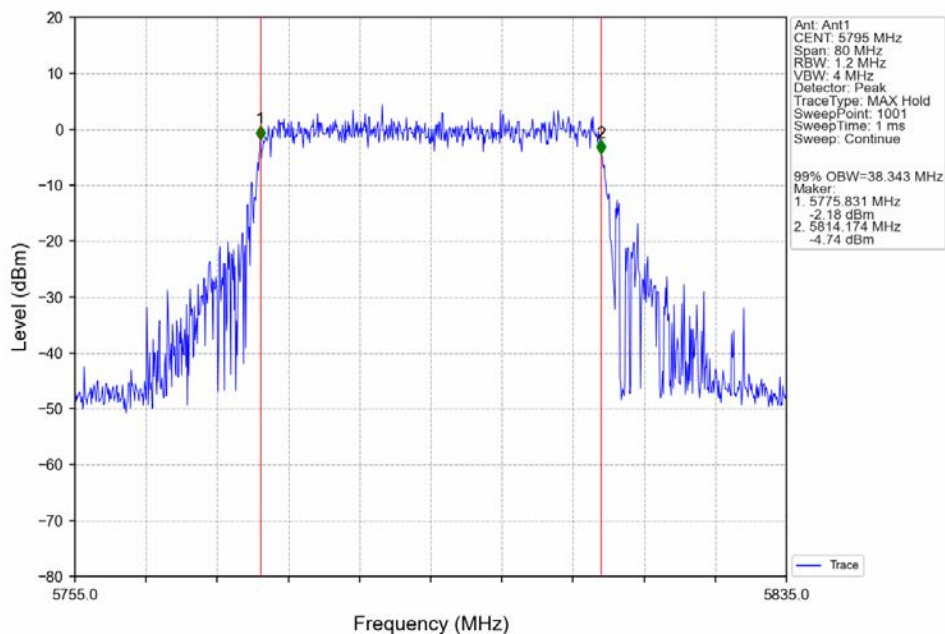
802.11ax(HEW40)_HCH_5230MHz_SU / Ant1_NTNV



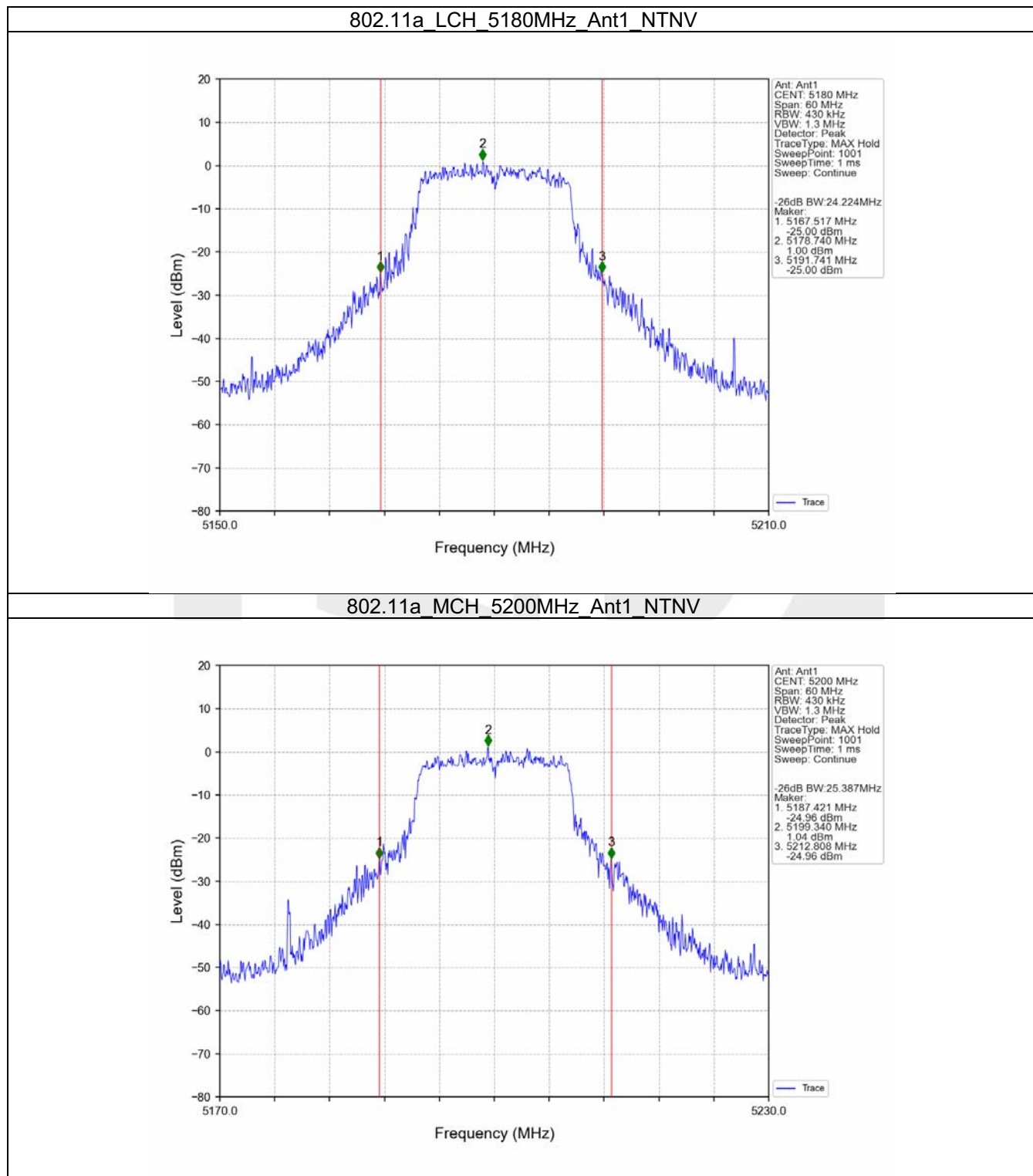
802.11ax(HEW40)_LCH_5755MHz_SU / Ant1_NTNV



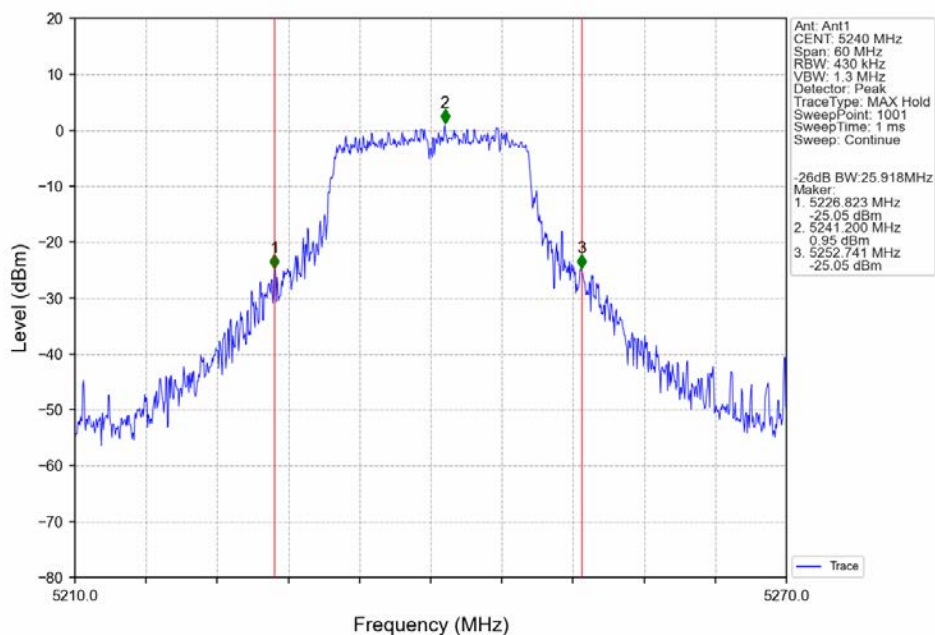
802.11ax(HEW40)_HCH_5795MHz_SU / Ant1_NTNV



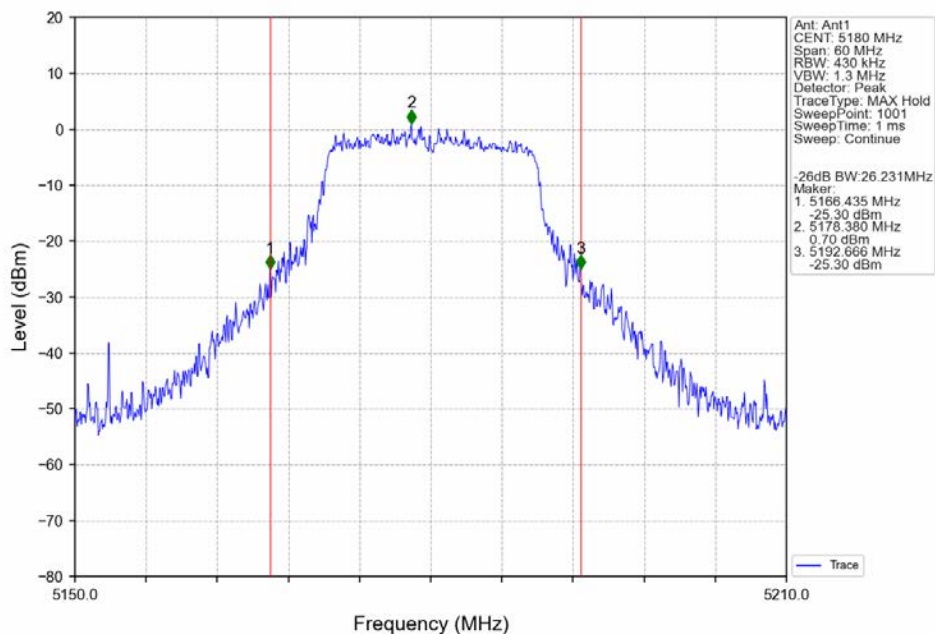
2.2.2 26dB BW

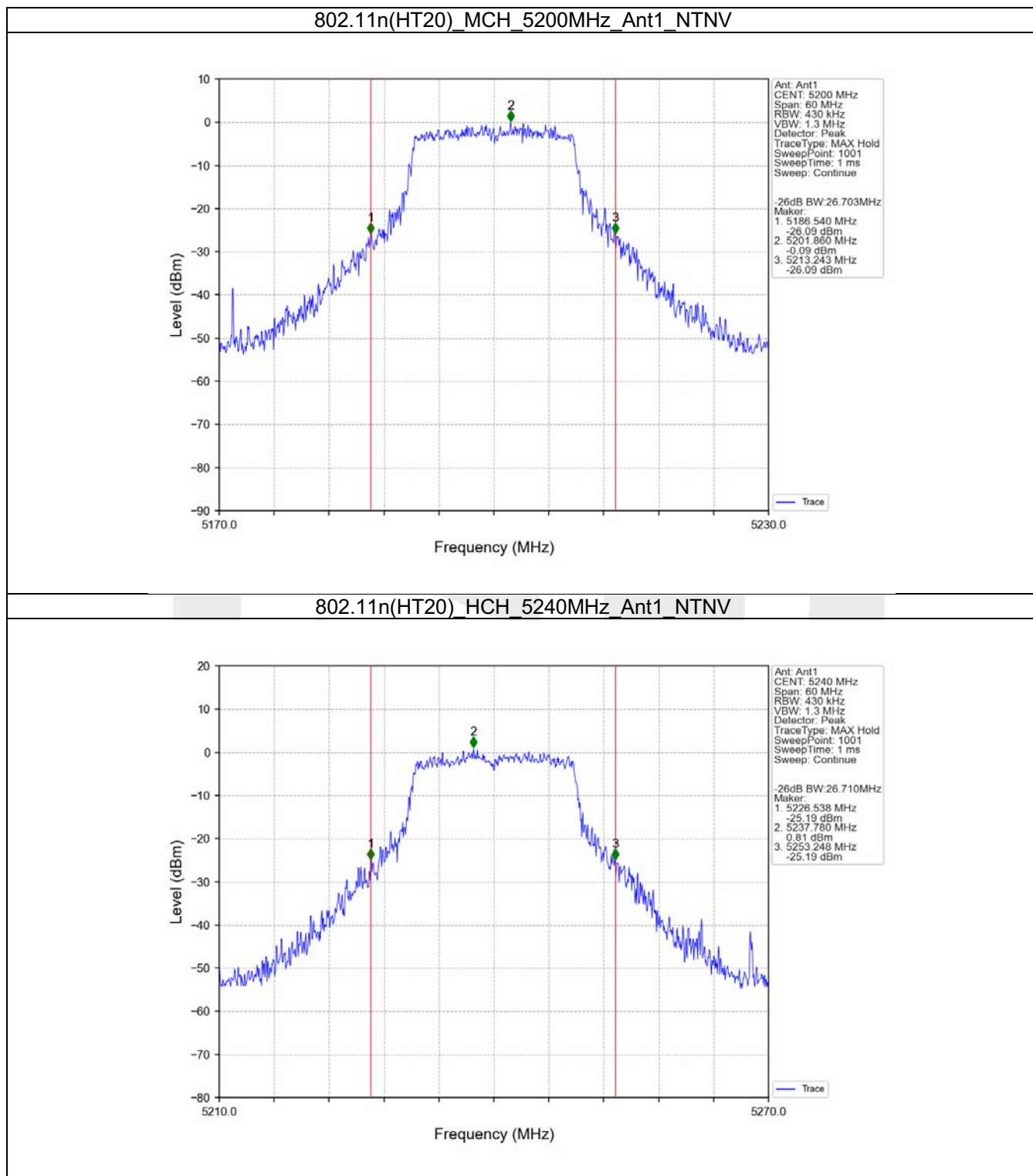


802.11a_HCH_5240MHz_Ant1_NTNV

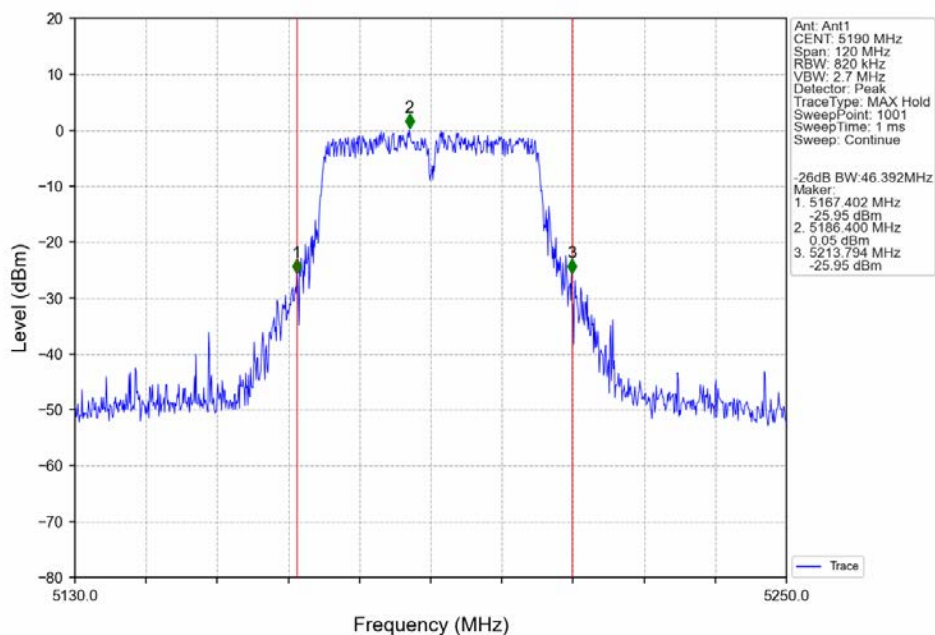


802.11n(HT20)_LCH_5180MHz_Ant1_NTNV

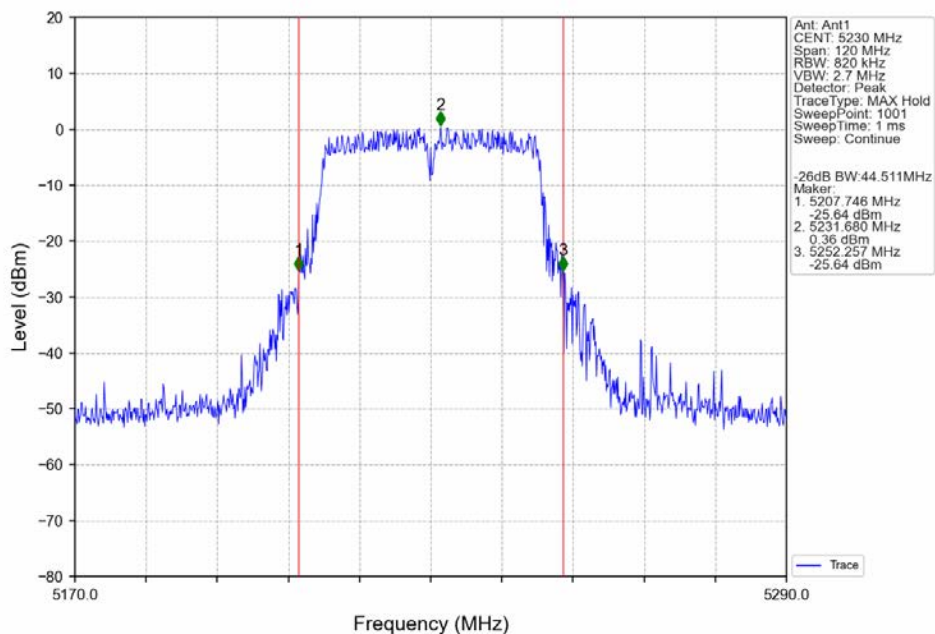




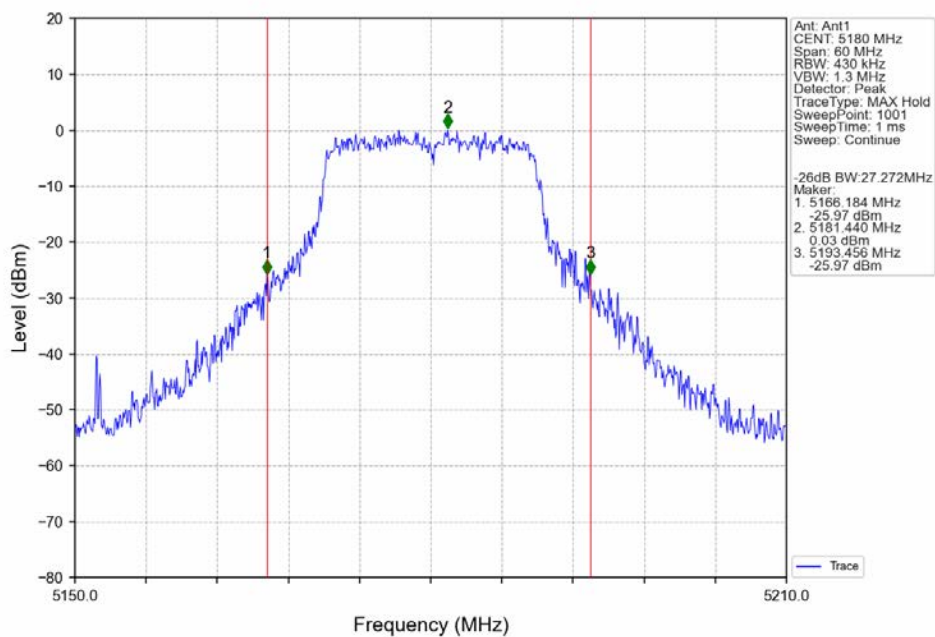
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



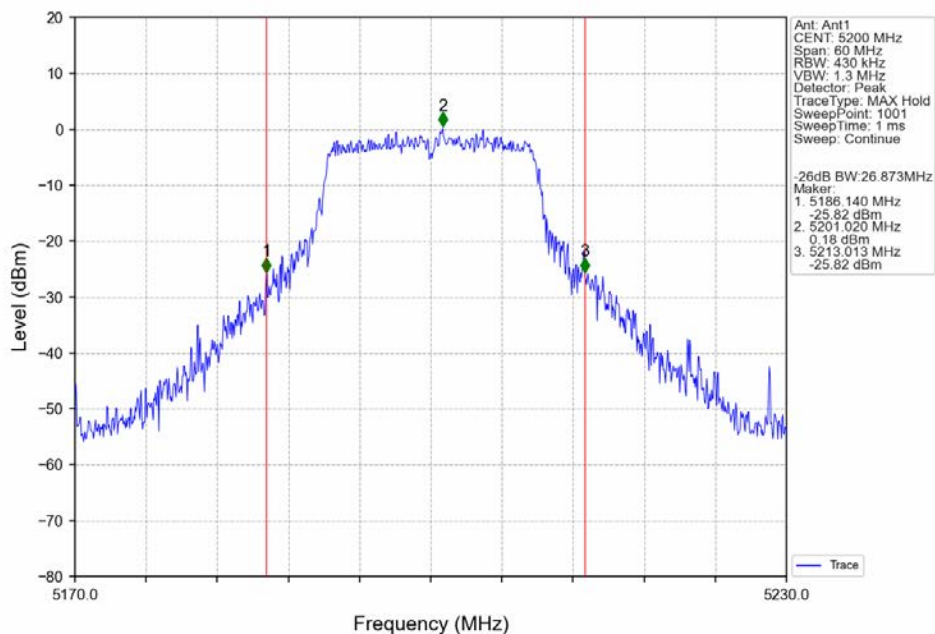
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



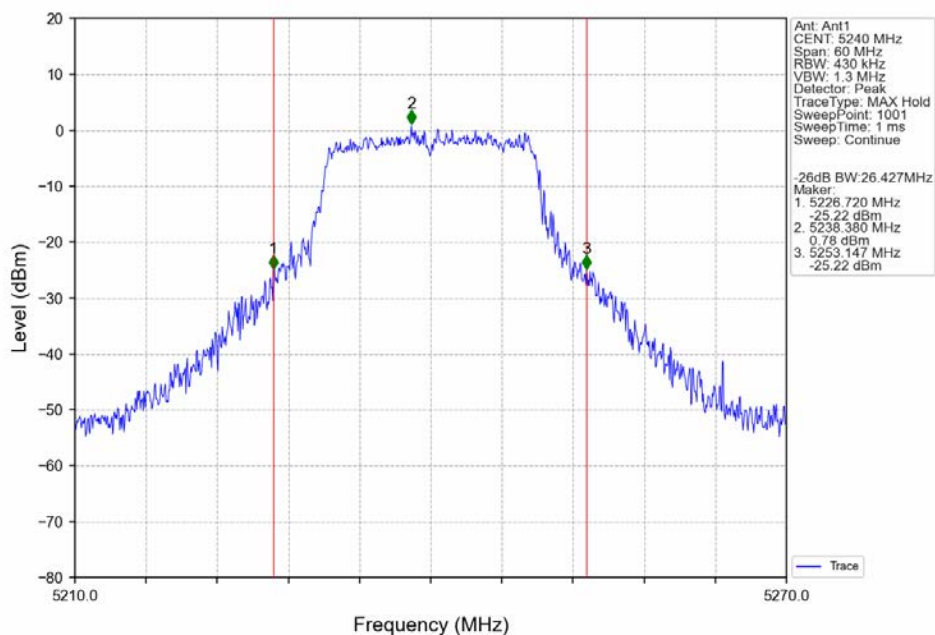
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



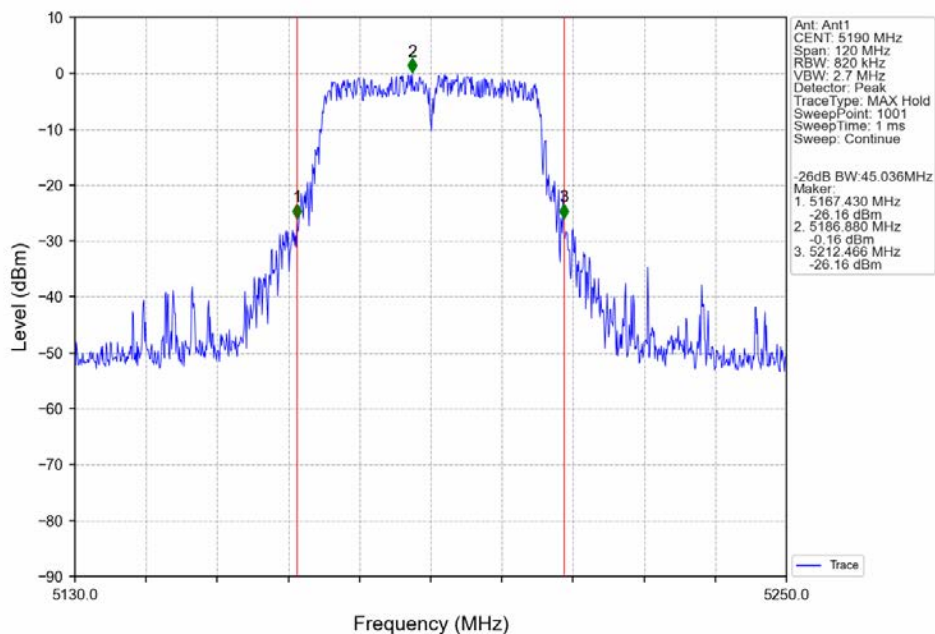
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV

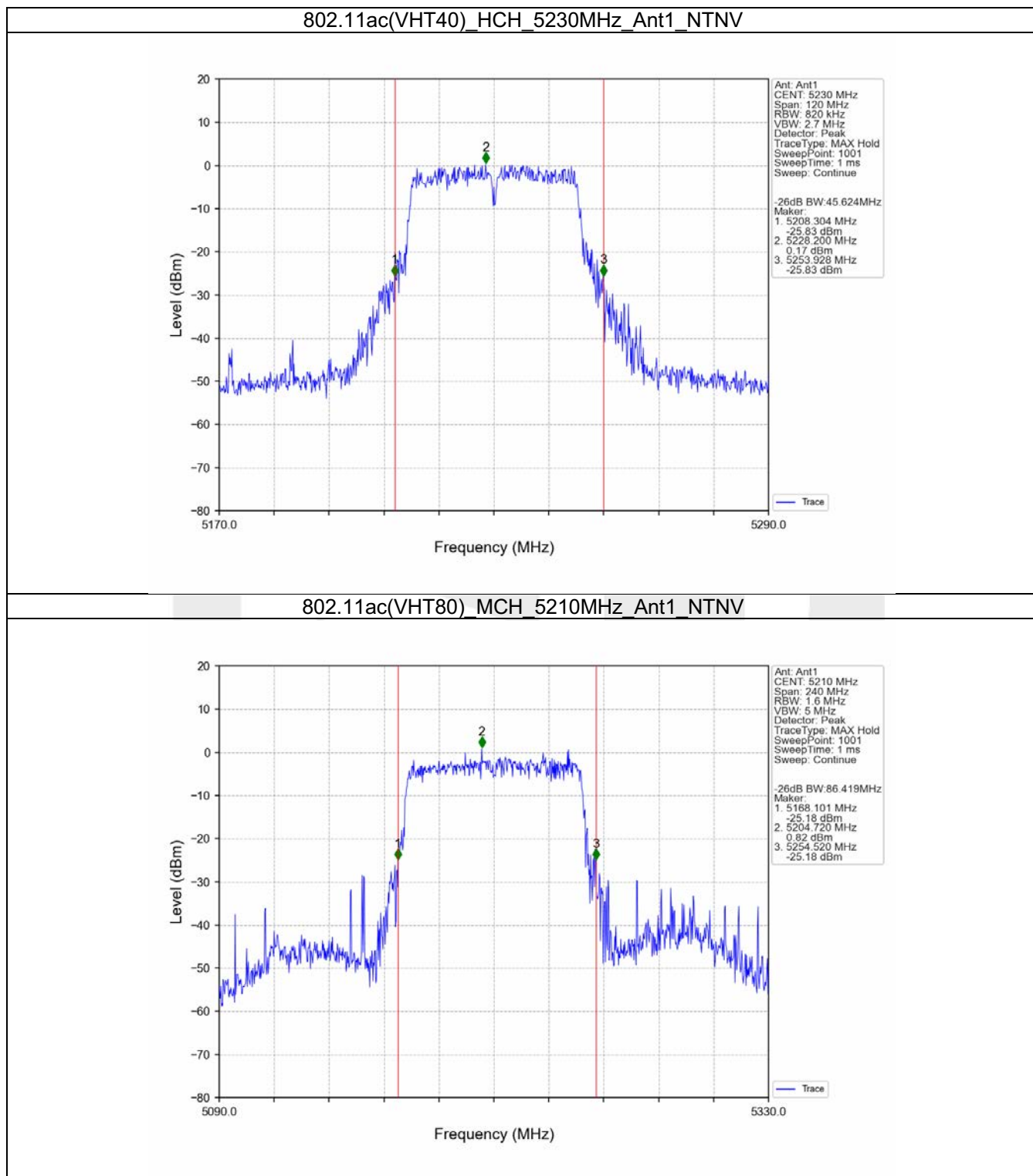


802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV

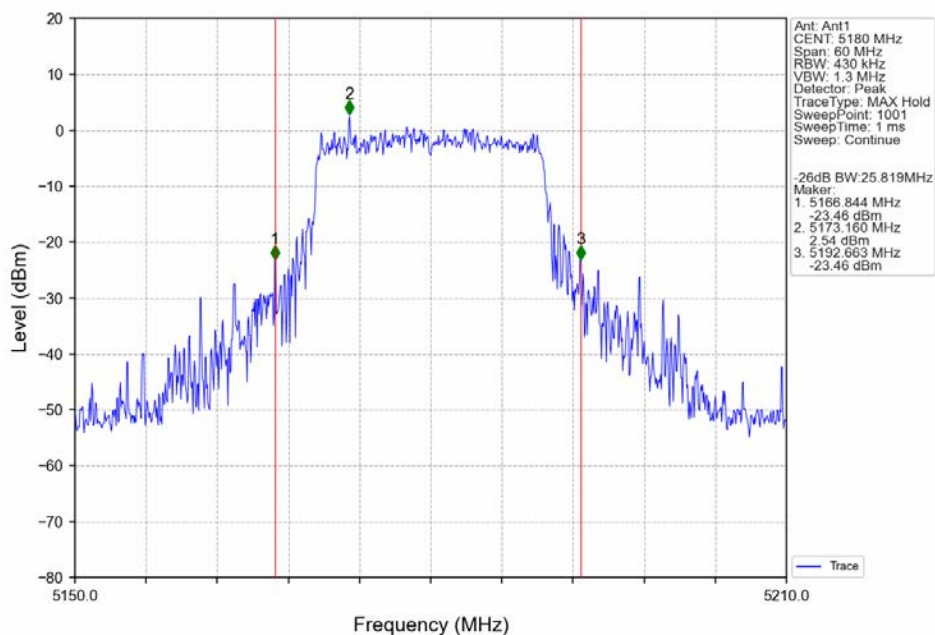


802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV

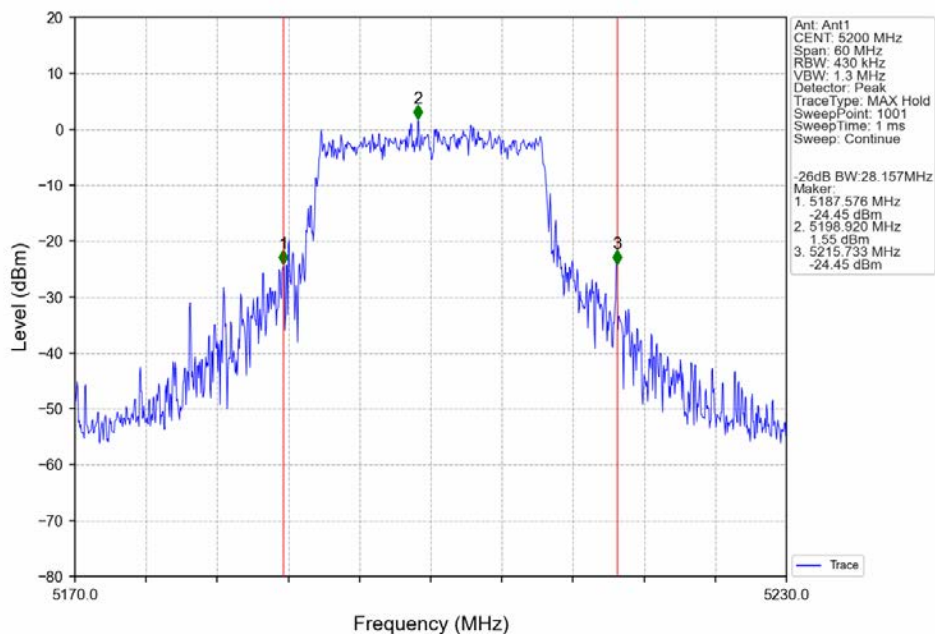




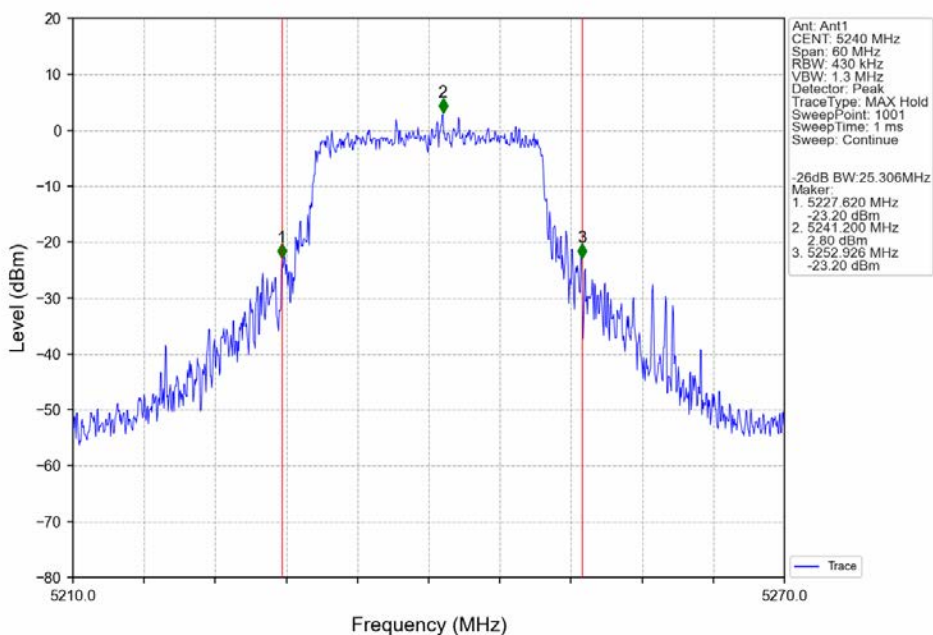
802.11ax(HEW20)_LCH_5180MHz_SU / Ant1_NTNV



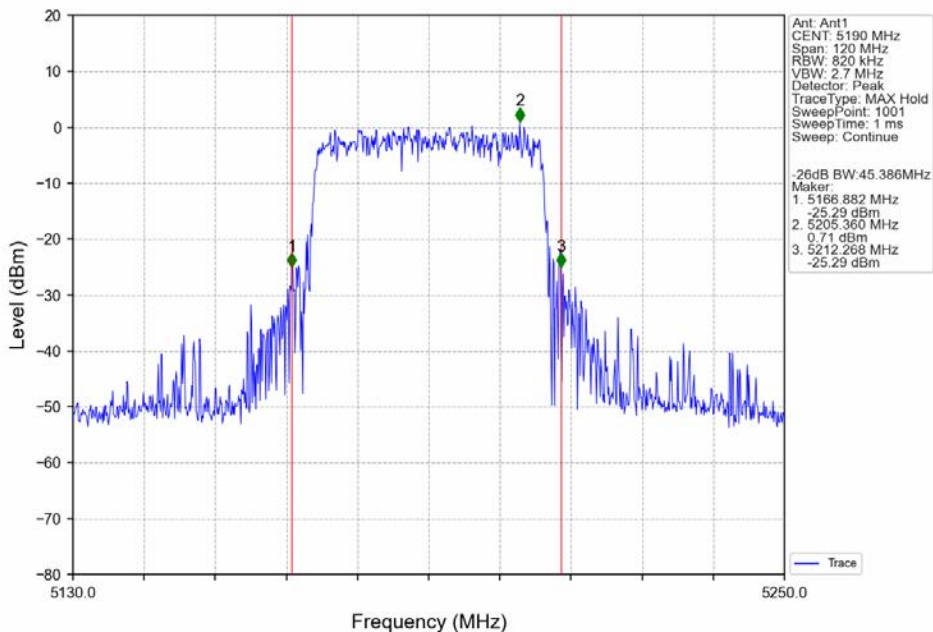
802.11ax(HEW20)_MCH_5200MHz_SU / Ant1_NTNV

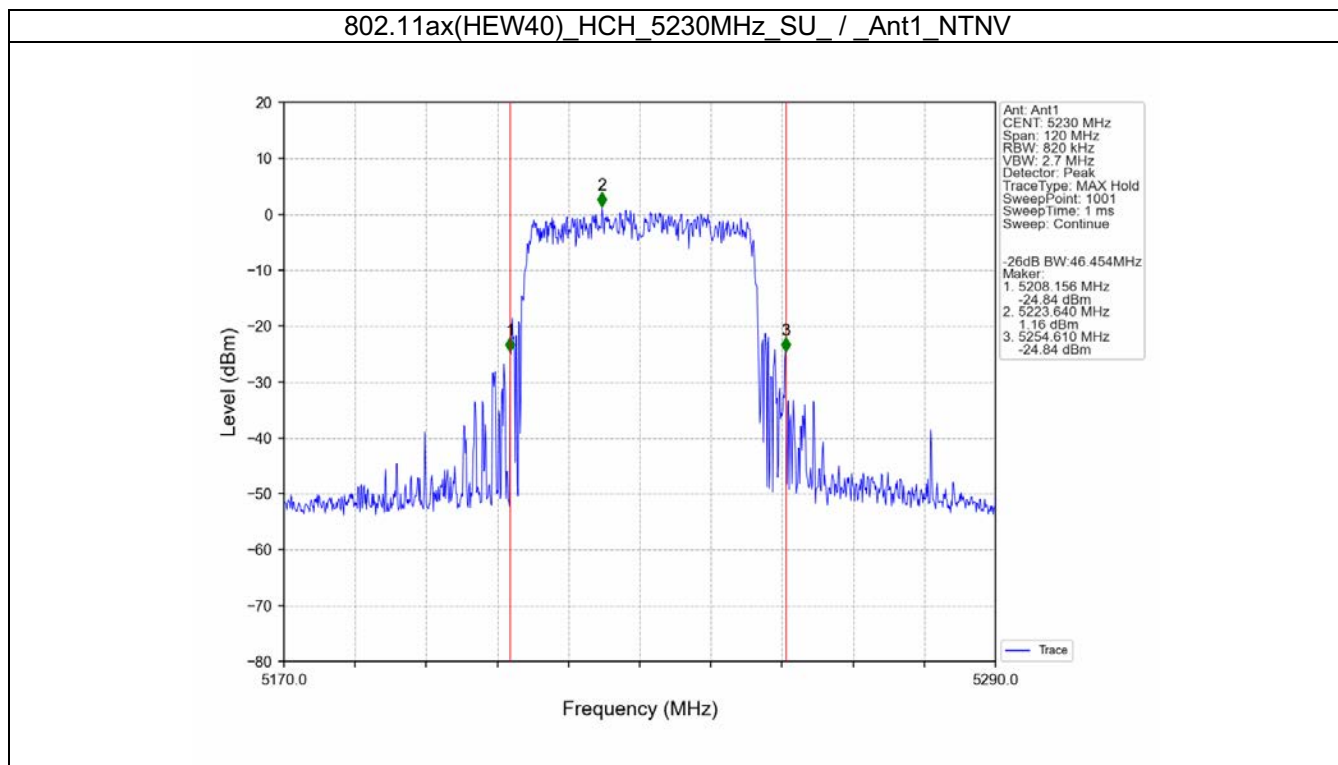


802.11ax(HEW20)_HCH_5240MHz_SU / Ant1_NTNV

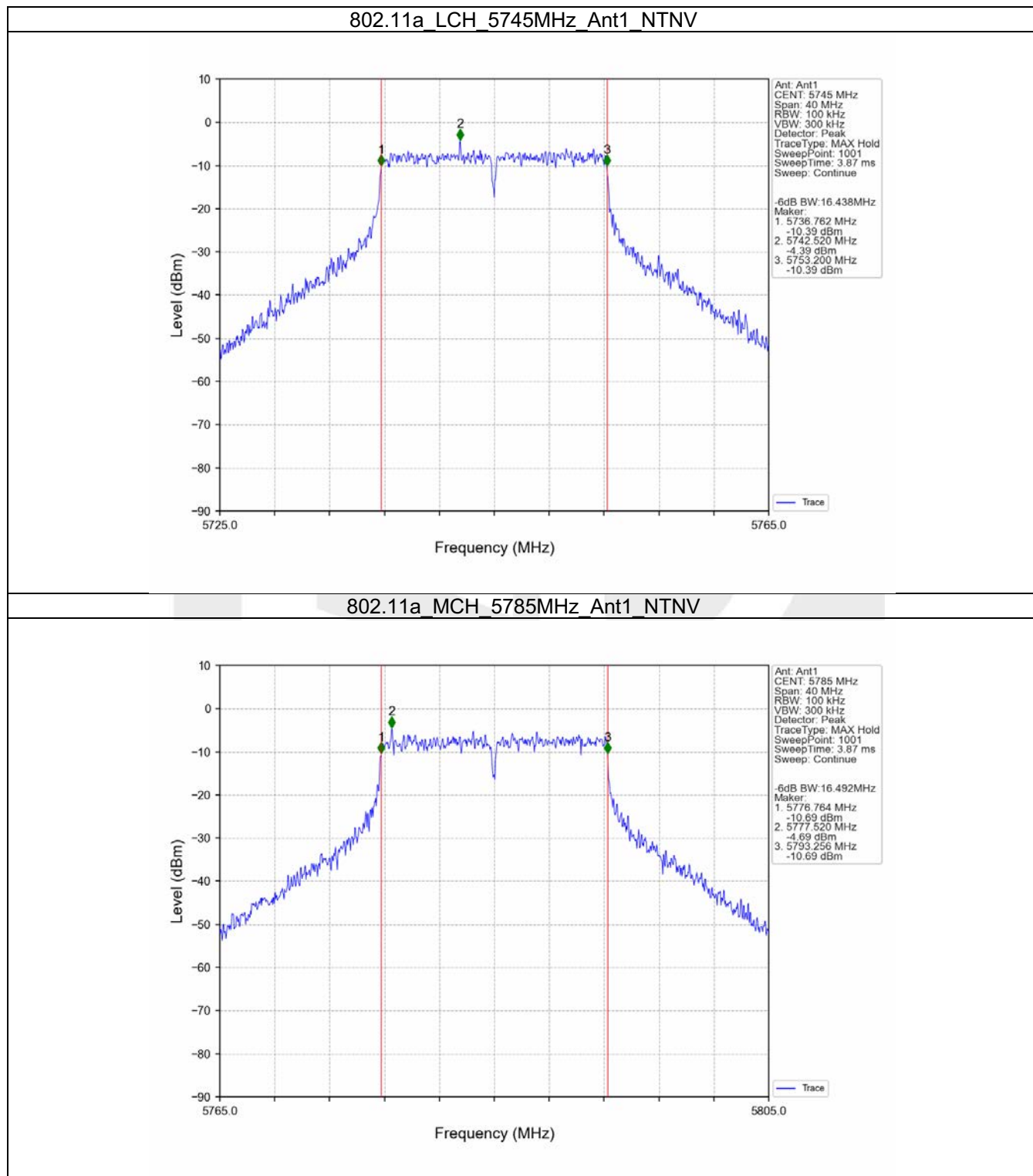


802.11ax(HEW40)_LCH_5190MHz_SU / Ant1_NTNV

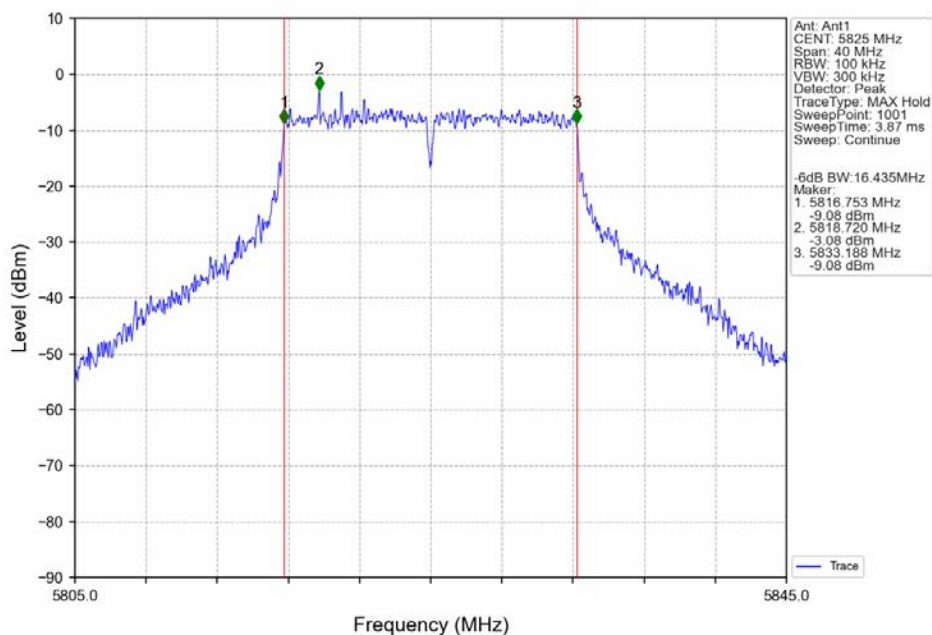




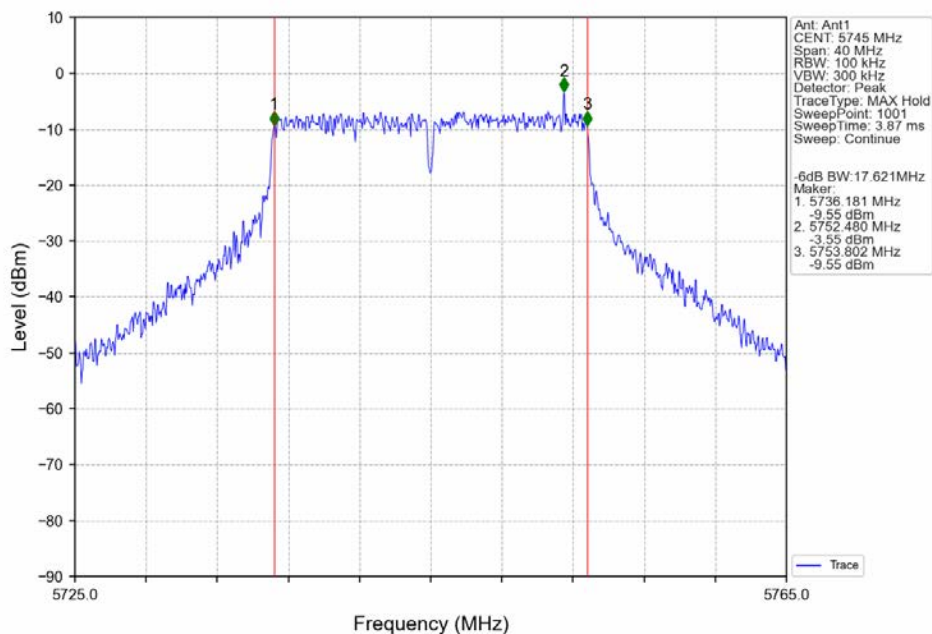
2.2.3 6dB BW



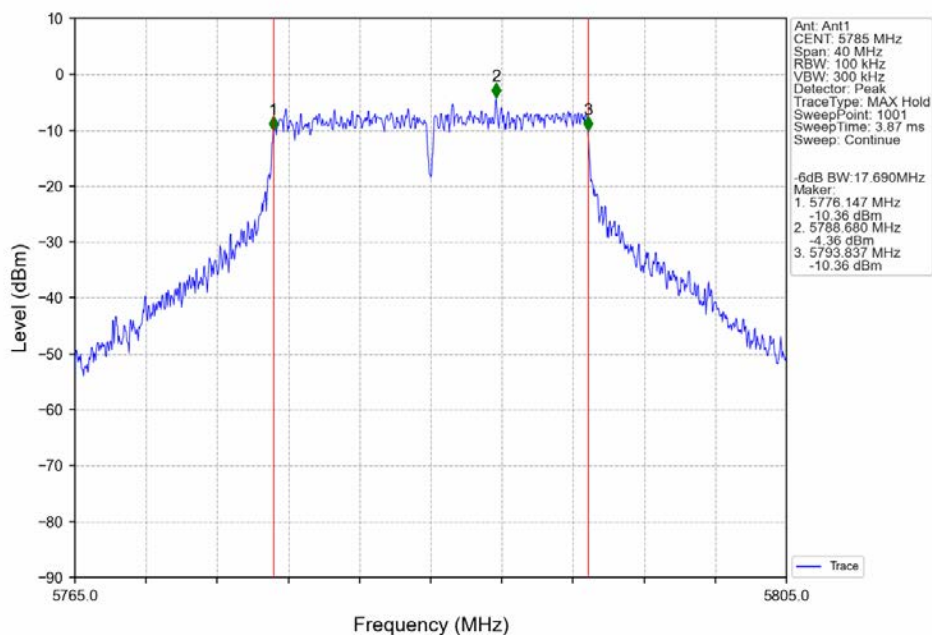
802.11a_HCH_5825MHz_Ant1_NTNV



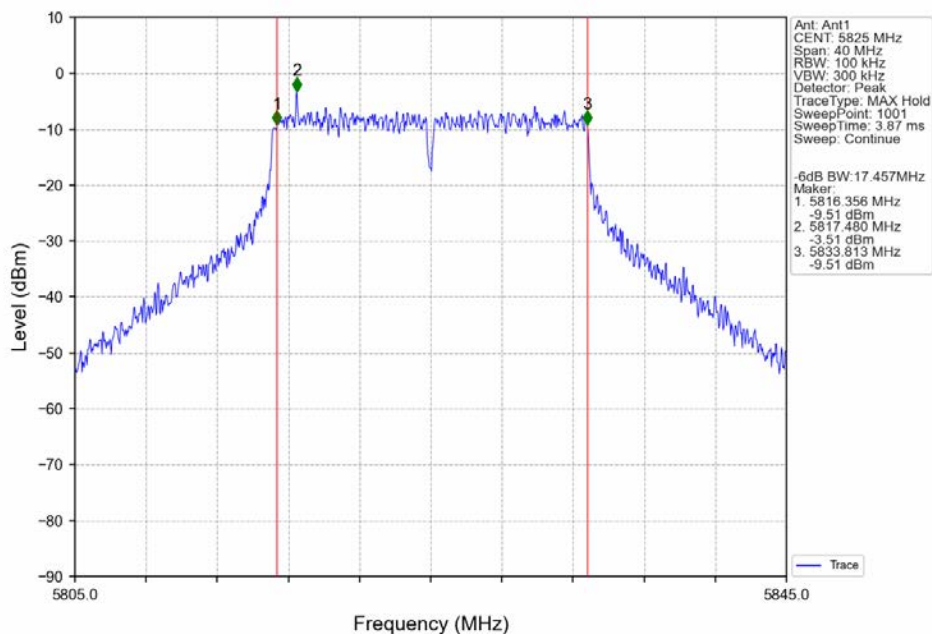
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



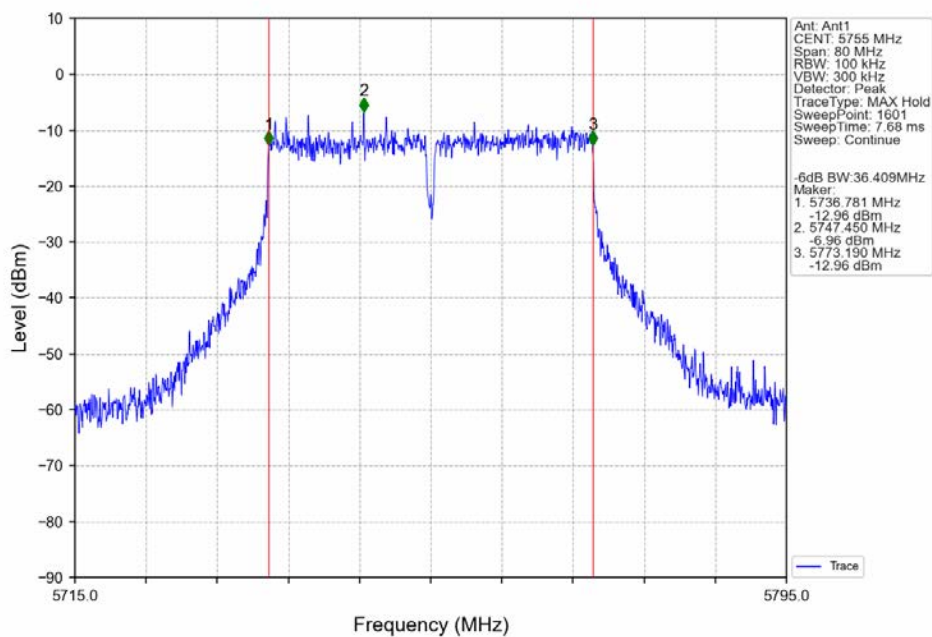
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



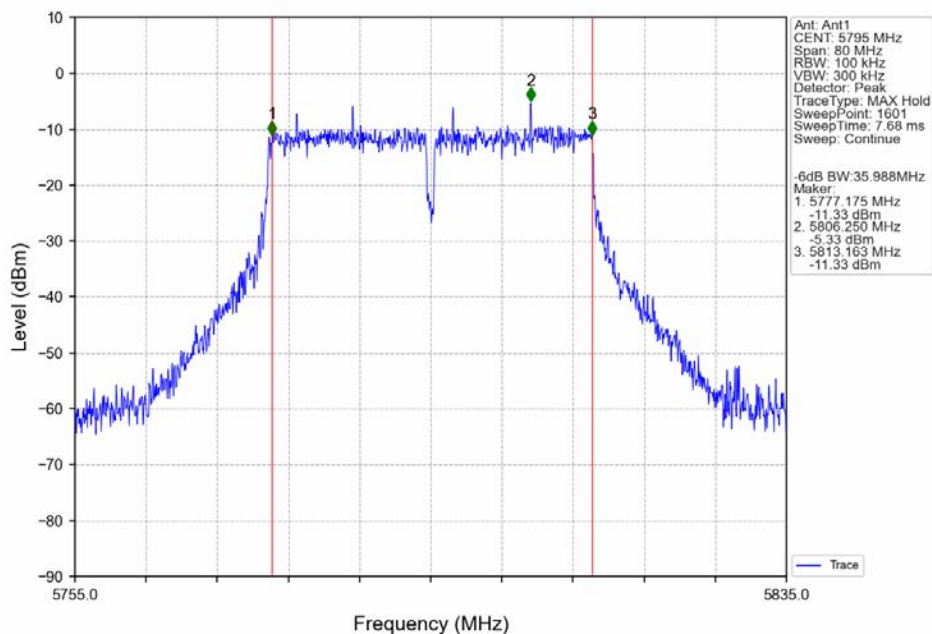
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



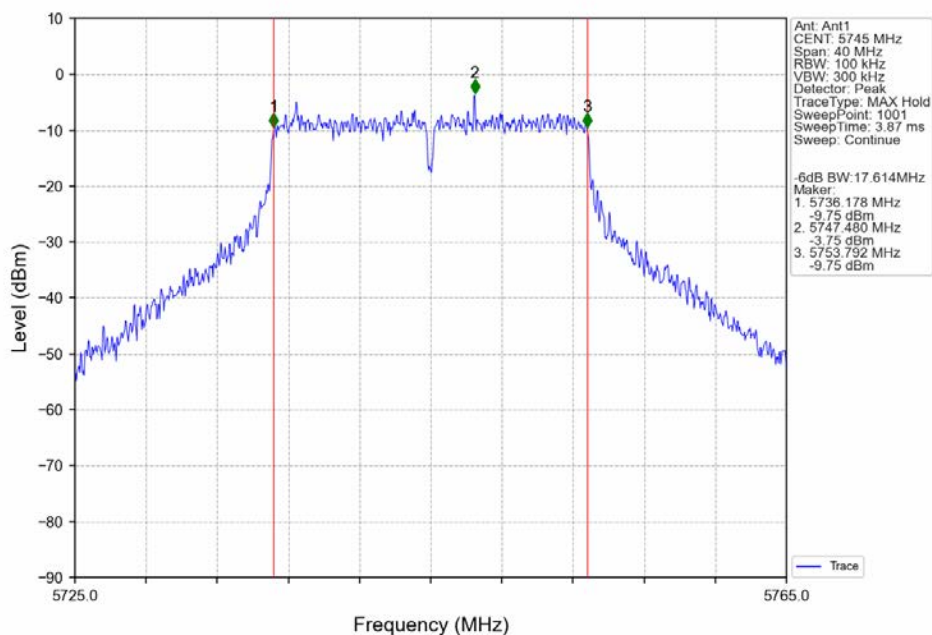
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



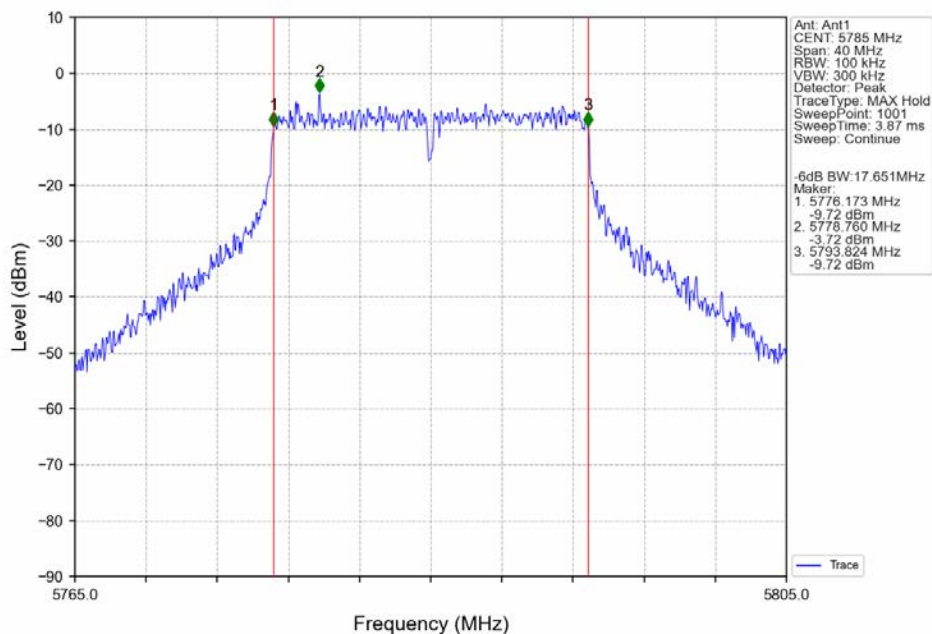
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV

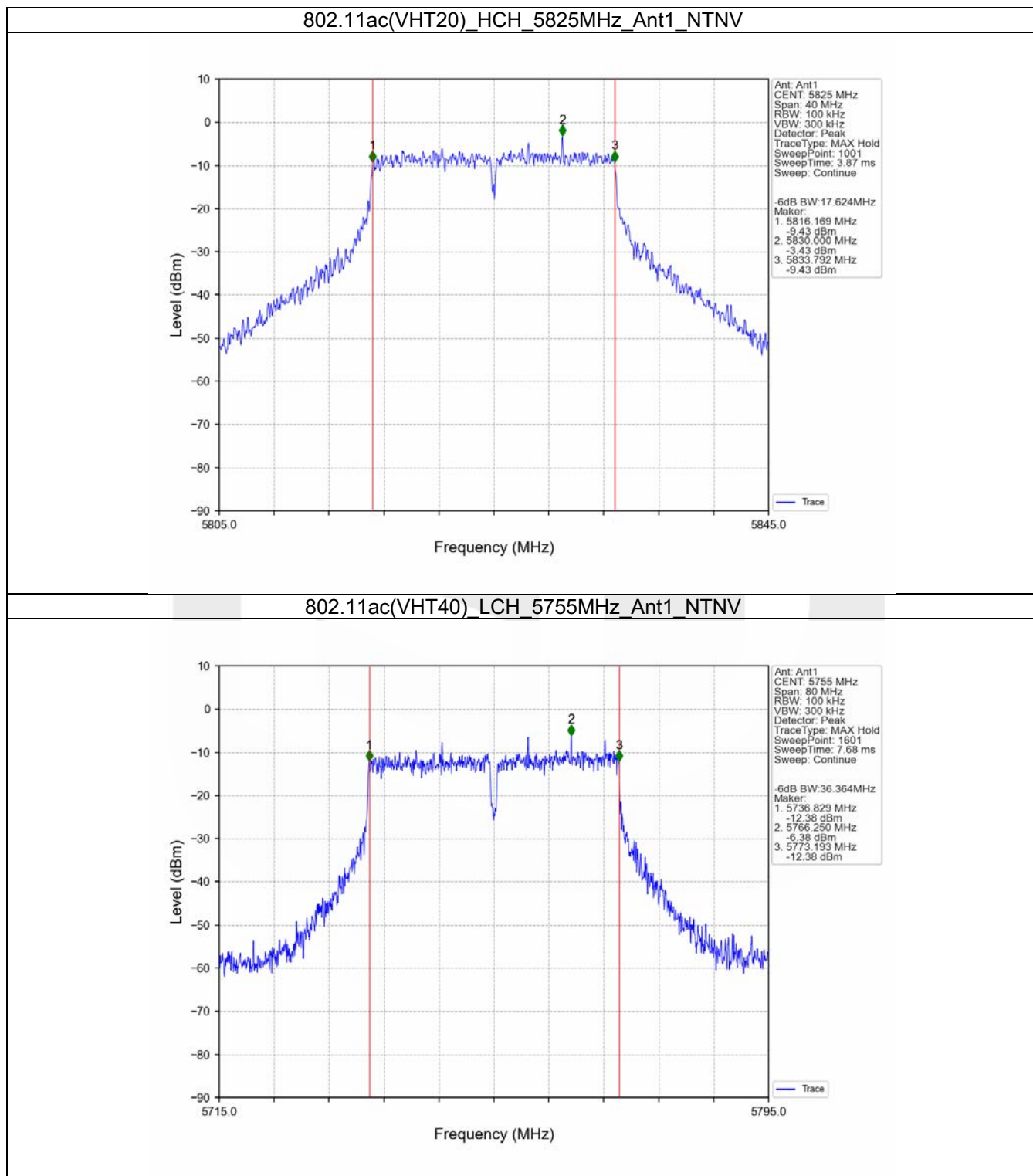


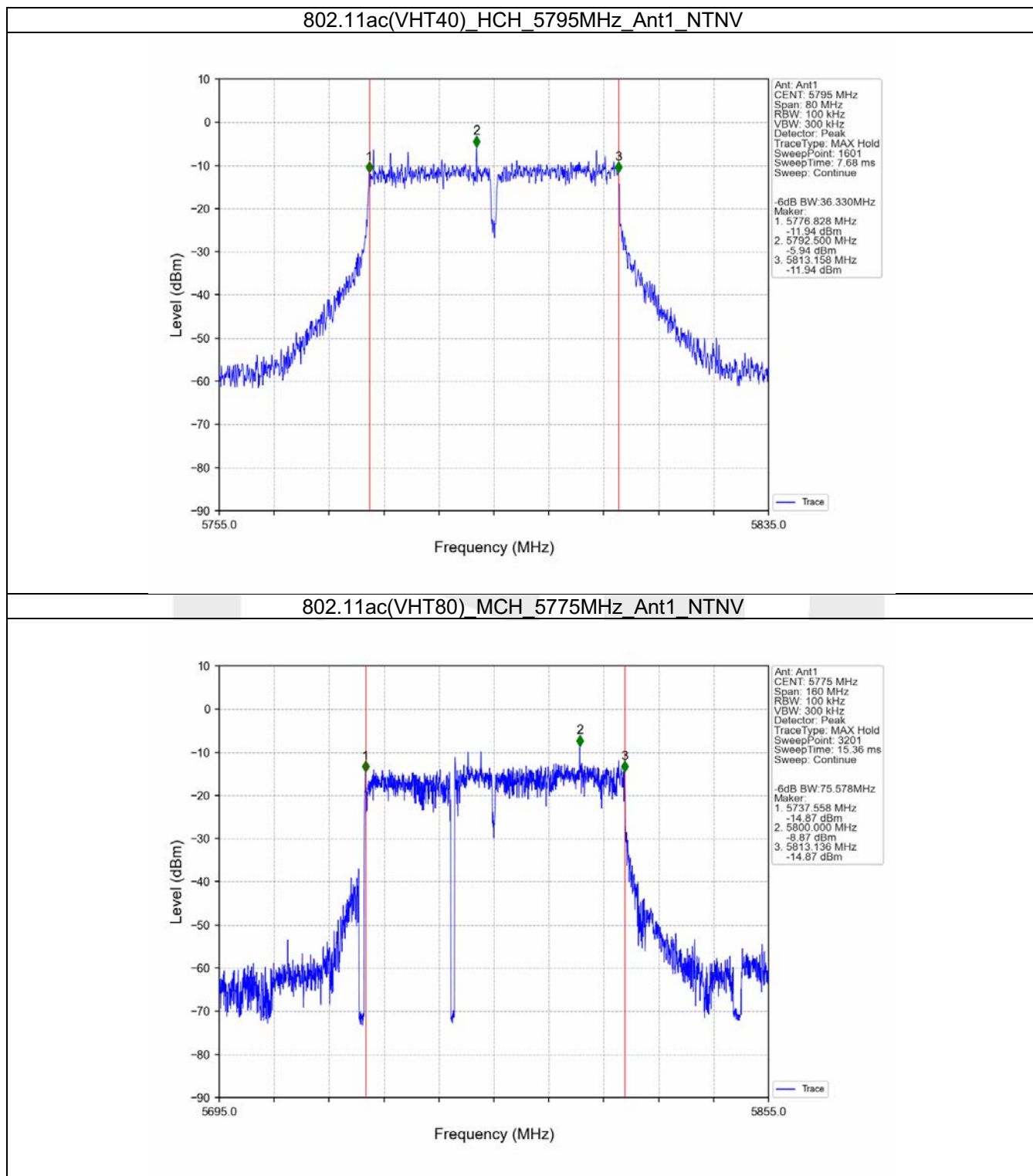
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV

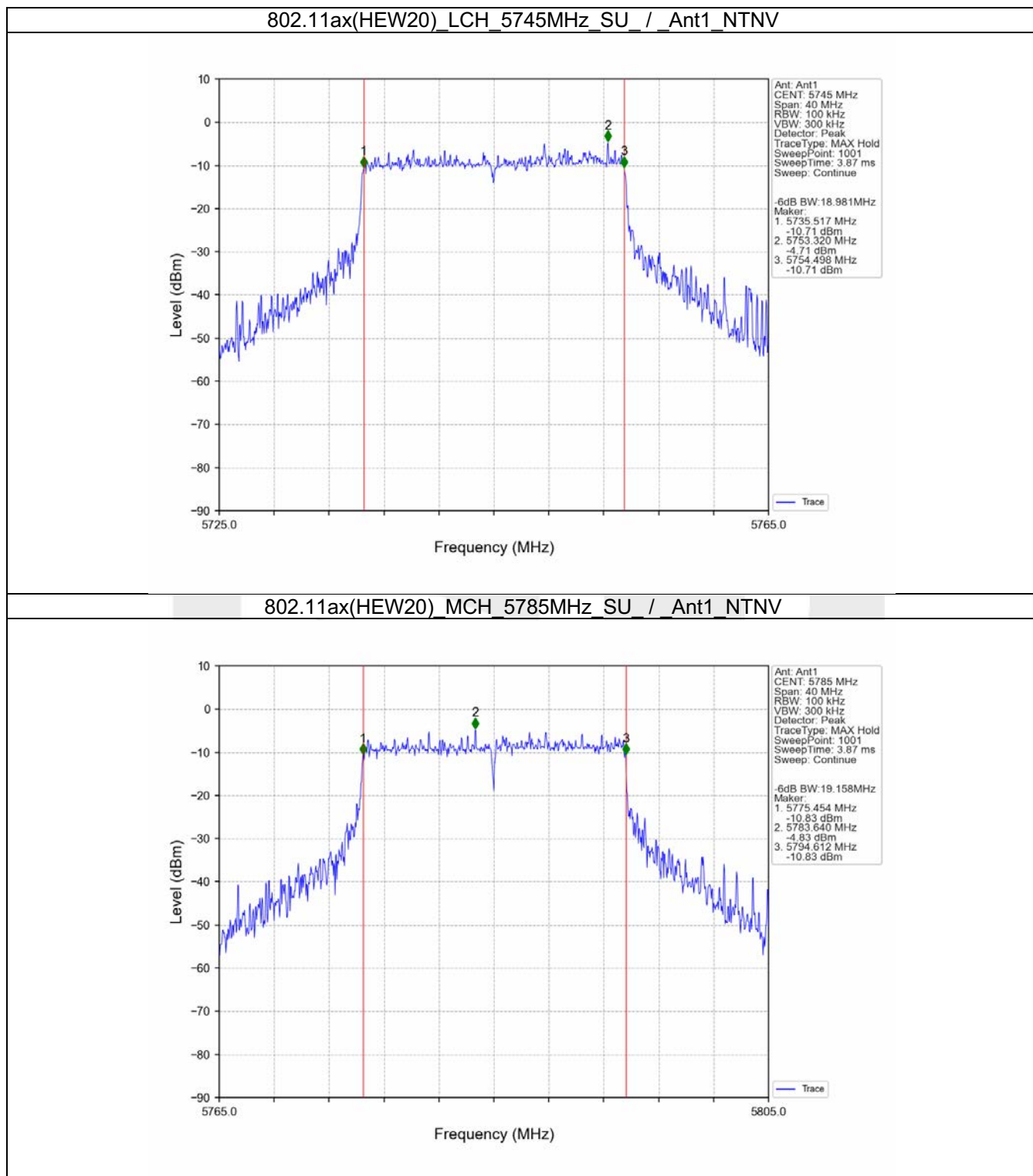


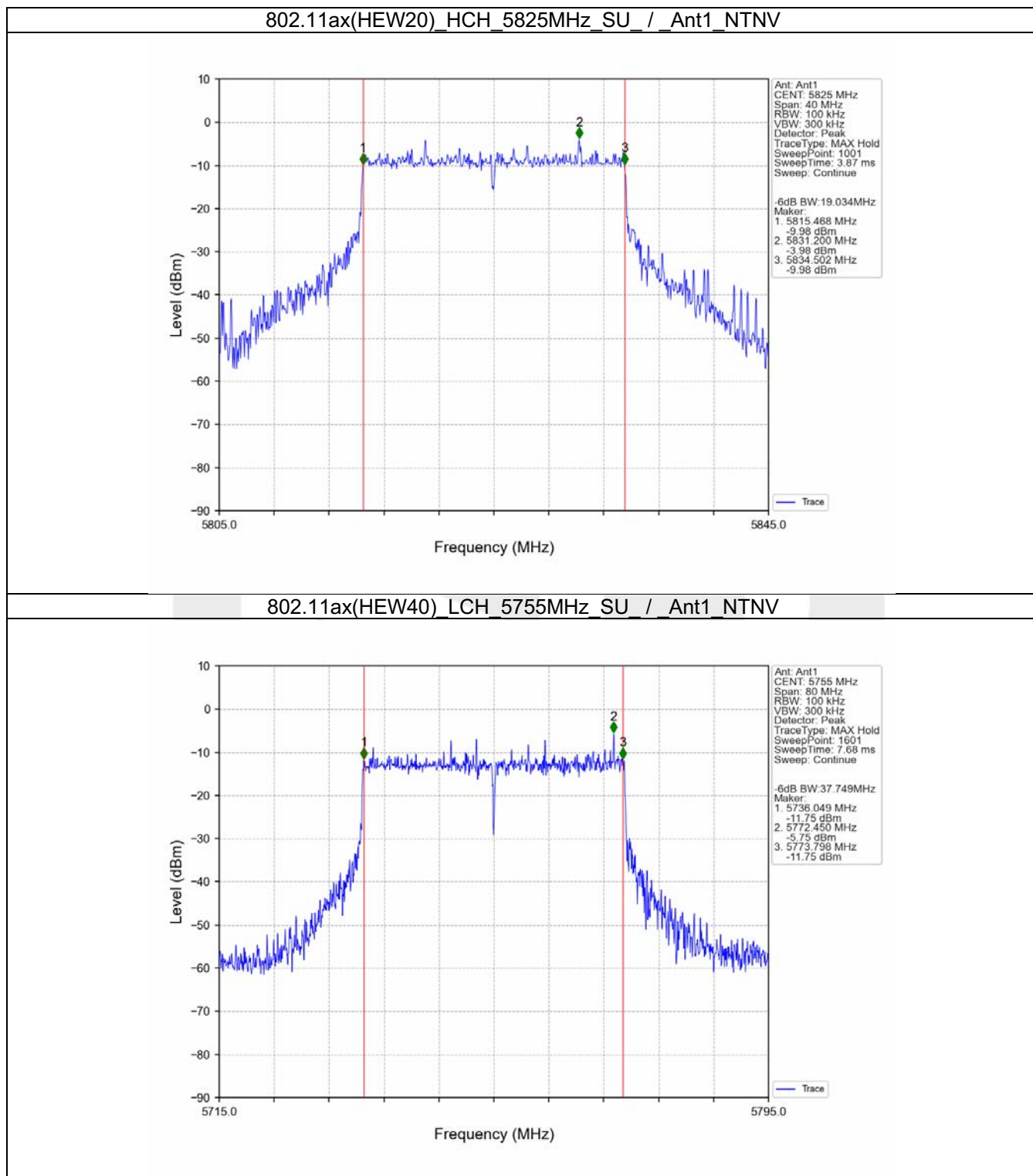
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV

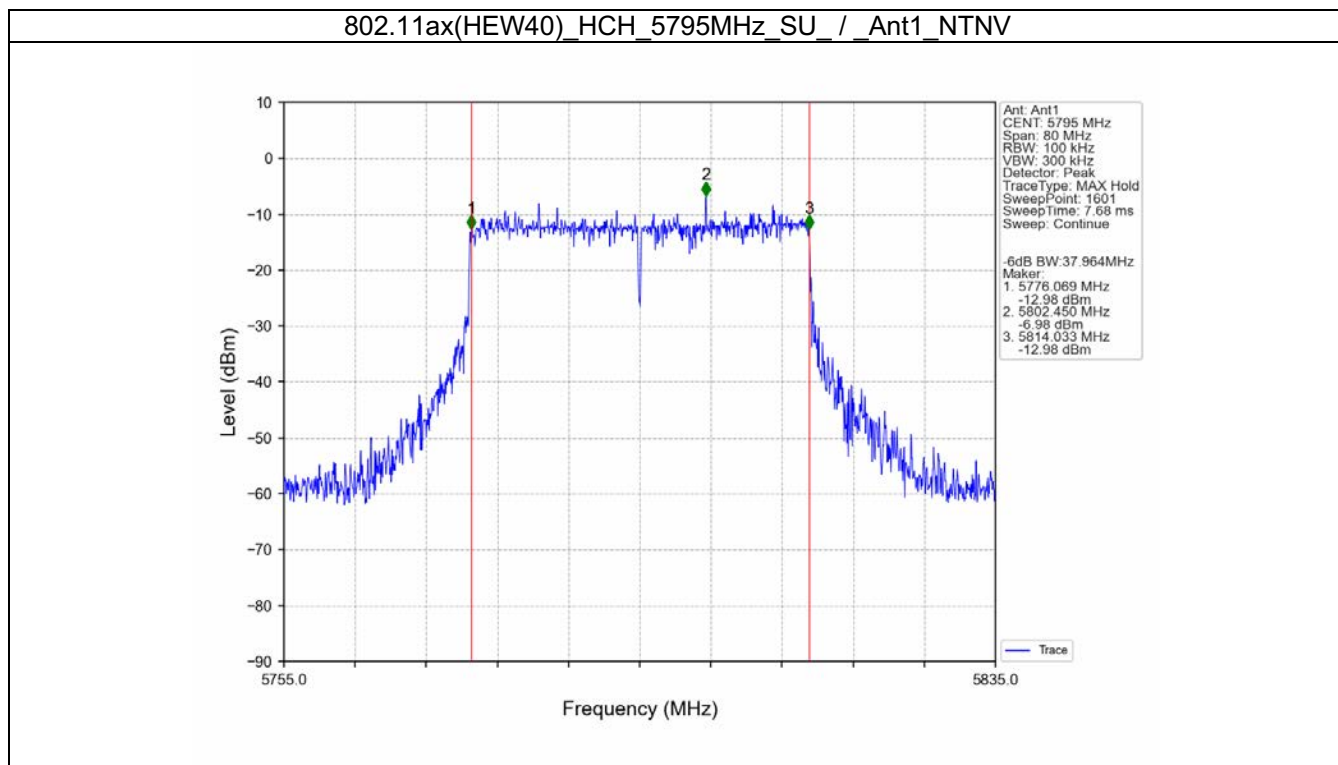












3. Maximum Conducted Output Power

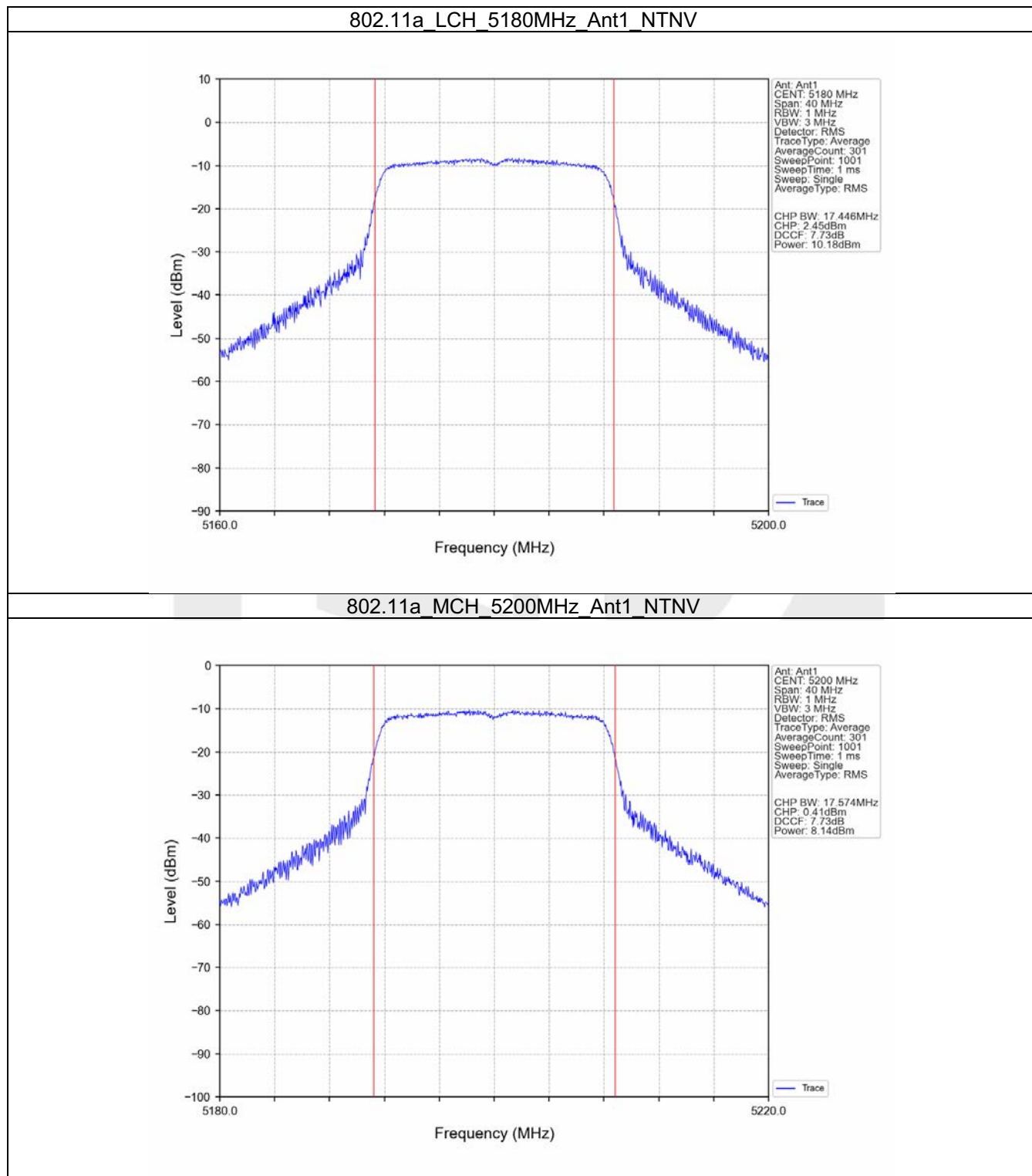
3.1 Test Result

3.1.1 Power

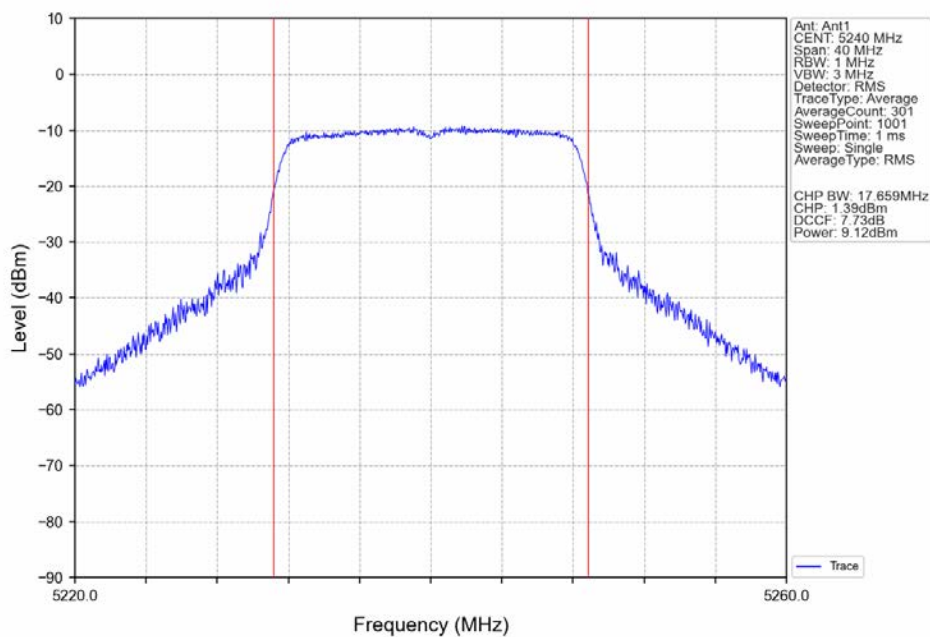
Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum Average Conducted Output Power (dBm)		Verdict
					ANT1	Limit	
802.11a	SISO	5180	/	/	10.18	<=23.98	Pass
		5200	/	/	8.14	<=23.98	Pass
		5240	/	/	9.12	<=23.98	Pass
		5745	/	/	7.95	<=30	Pass
		5785	/	/	7.72	<=30	Pass
		5825	/	/	8.17	<=30	Pass
802.11n (HT20)	SISO	5180	/	/	7.78	<=23.98	Pass
		5200	/	/	8.35	<=23.98	Pass
		5240	/	/	9.62	<=23.98	Pass
		5745	/	/	8.66	<=30	Pass
		5785	/	/	8.19	<=30	Pass
		5825	/	/	9.00	<=30	Pass
802.11n (HT40)	SISO	5190	/	/	7.61	<=23.98	Pass
		5230	/	/	8.90	<=23.98	Pass
		5755	/	/	8.16	<=30	Pass
		5795	/	/	8.30	<=30	Pass
802.11ac (VHT20)	SISO	5180	/	/	7.83	<=23.98	Pass
		5200	/	/	7.42	<=23.98	Pass
		5240	/	/	7.50	<=23.98	Pass
		5745	/	/	9.43	<=30	Pass
		5785	/	/	9.21	<=30	Pass
		5825	/	/	10.50	<=30	Pass
802.11ac (VHT40)	SISO	5190	/	/	7.32	<=23.98	Pass
		5230	/	/	8.90	<=23.98	Pass
		5755	/	/	8.09	<=30	Pass
		5795	/	/	9.38	<=30	Pass
802.11ac (VHT80)	SISO	5210	/	/	8.70	<=23.98	Pass
		5775	/	/	7.99	<=30	Pass
802.11ax (HEW20)	SISO	5180	SU	/	8.04	<=23.98	Pass
		5200	SU	/	8.50	<=23.98	Pass
		5240	SU	/	9.14	<=23.98	Pass
		5745	SU	/	8.47	<=30	Pass
		5785	SU	/	8.78	<=30	Pass
		5825	SU	/	8.35	<=30	Pass
802.11ax (HEW40)	SISO	5190	SU	/	8.25	<=23.98	Pass
		5230	SU	/	7.98	<=23.98	Pass
		5755	SU	/	9.72	<=30	Pass
		5795	SU	/	7.95	<=30	Pass

3.2 Test Graph

3.2.1 Power



802.11a_HCH_5240MHz_Ant1_NTNV



802.11a_LCH_5745MHz_Ant1_NTNV

