

ANNEX 1 TEST DATA

FCC ID: 2A9PI-LIXELL3

Applicant: SHENZHEN XGRIDS-INNOVATION CO., LTD

Address: 2401-2404, Building3, Shenzhen International Innovation Valley, Nanshan District, Shenzhen

Manufacturer: SHENZHEN XGRIDS-INNOVATION CO., LTD

Address: 2401-2404, Building3, Shenzhen International Innovation Valley, Nanshan District, Shenzhen

Product Name: Mobile Lidar Scanner

Trade Mark: XGRIDS

Model Number: Lixel L3, Lixel L3-16/120, Lixel L3-32/120, Lixel L3-32/300

Date of Receipt: Sep. 01, 2026

Test Date: Sep. 01, 2026 - Sep. 18, 2026

Date of Report: Sep. 18, 2026

Prepared By: Shenzhen DL Testing Technology Co., Ltd.

Address: 101-201, Comprehensive Building, Tongzhou Electronics Longgang Factory Area, No.1 Baolong Fifth Road, Baolong Community, Baolong Street, Longgang District, Shenzhen, China

Applicable Standards: FCC PART 15 E 15.407
ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024
KDB 662911 D01 Multiple Transmitter Output v02r01
KDB 789033 D02 General U-NII Test Procedures New Rules v02r01

Test Result: Pass

Report Number: DLE-260831029R

1. Duty Cycle

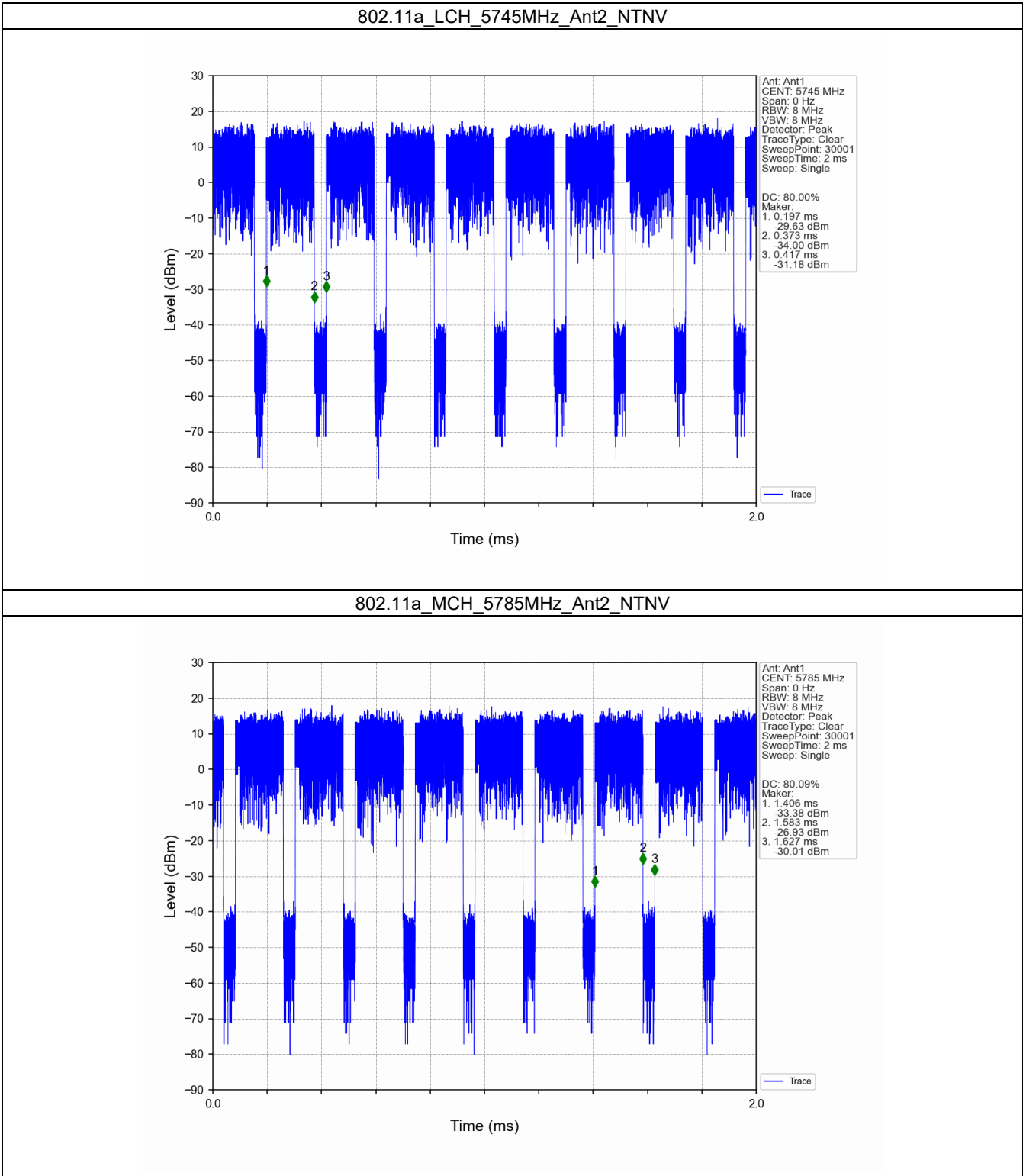
1.1 Test Result

1.1.1 Ant2

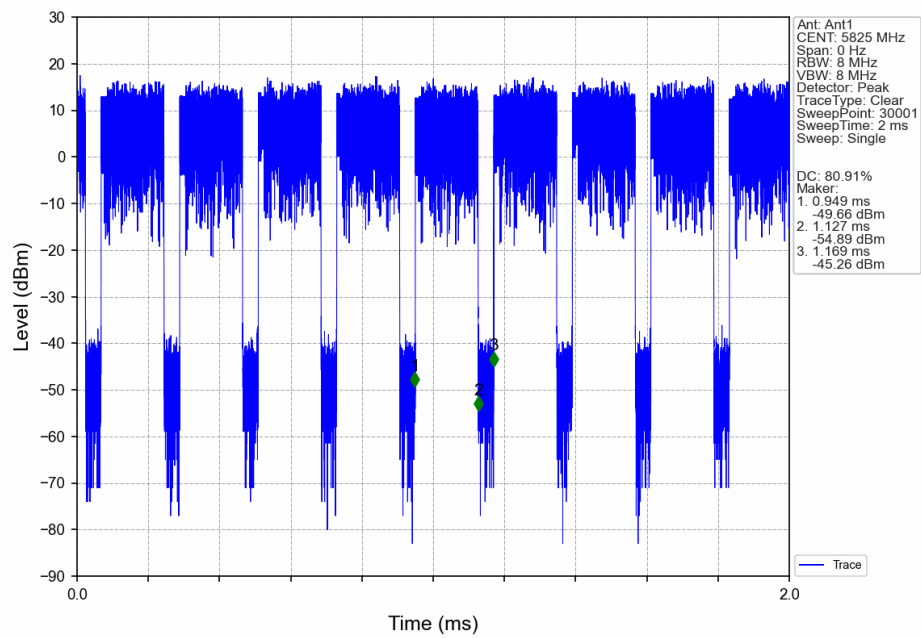
Ant2							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5745	0.176	0.220	80.00	0.97	0.12
		5785	0.177	0.221	80.09	0.96	0.11
		5825	0.178	0.220	80.91	0.92	0.08
802.11n (HT20)	SISO	5745	0.165	0.208	79.33	1.01	0.10
		5785	0.165	0.209	78.95	1.03	0.13
		5825	0.165	0.209	78.95	1.03	0.09
802.11n (HT40)	SISO	5755	0.102	0.145	70.34	1.53	0.13
		5795	0.101	0.144	70.14	1.54	0.16
802.11ac (VHT20)	SISO	5745	0.171	0.213	80.28	0.95	0.09
		5785	0.168	0.212	79.25	1.01	0.13
		5825	0.169	0.213	79.34	1.00	0.09
802.11ac (VHT40)	SISO	5755	0.092	0.136	67.65	1.70	0.02
		5795	0.092	0.136	67.65	1.70	0.07
802.11ac (VHT80)	SISO	5775	0.073	0.117	62.39	2.05	0.23

1.2 Test Graph

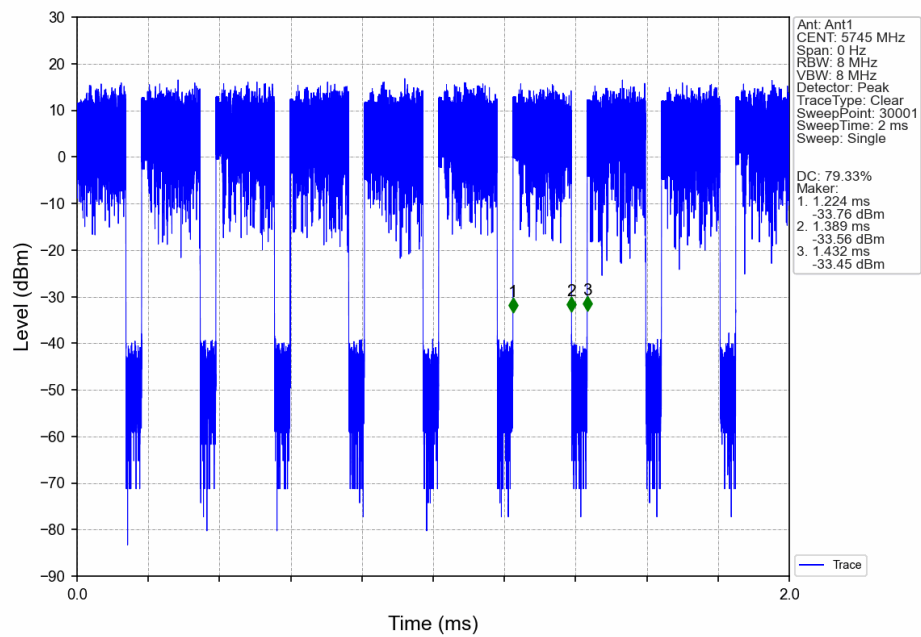
1.2.1 Ant2



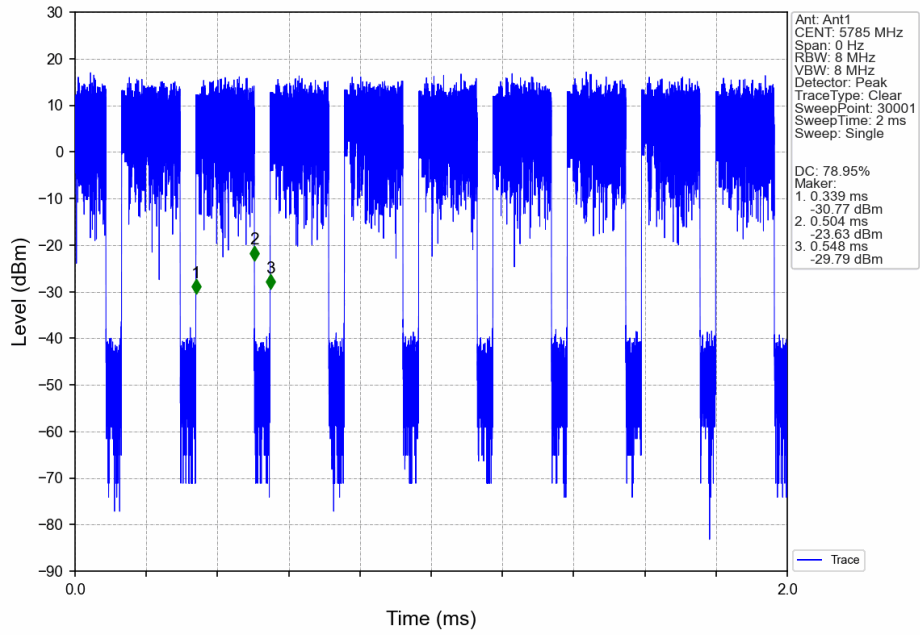
802.11a_HCH_5825MHz_Ant2_NTNV



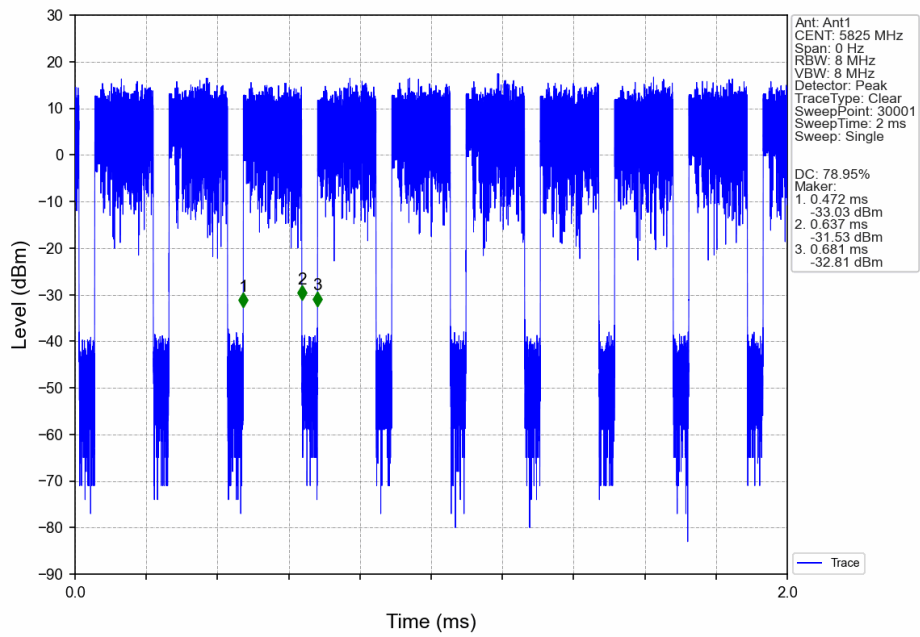
802.11n(HT20)_LCH_5745MHz_Ant2_NTNV



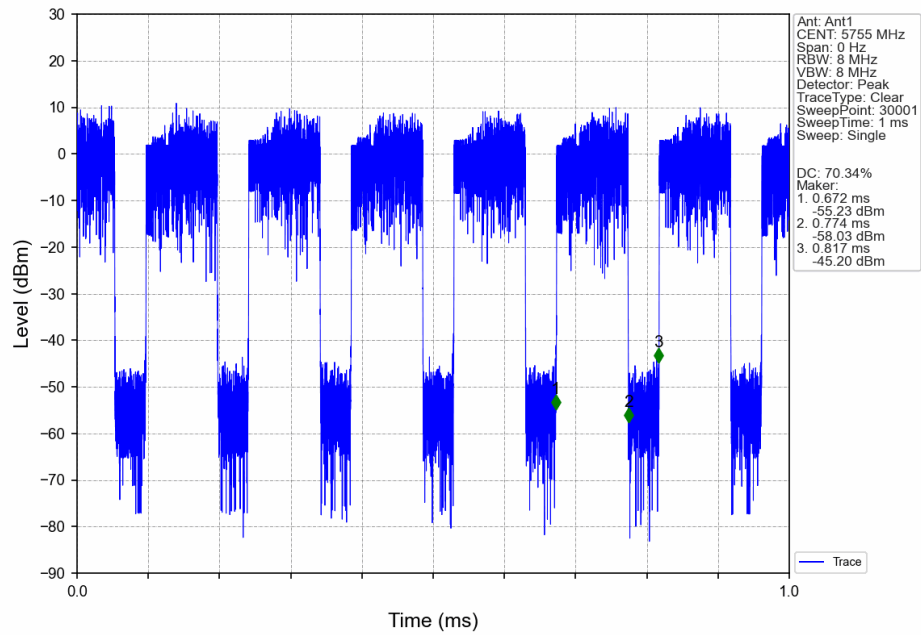
802.11n(HT20)_MCH_5785MHz_Ant2_NTNV



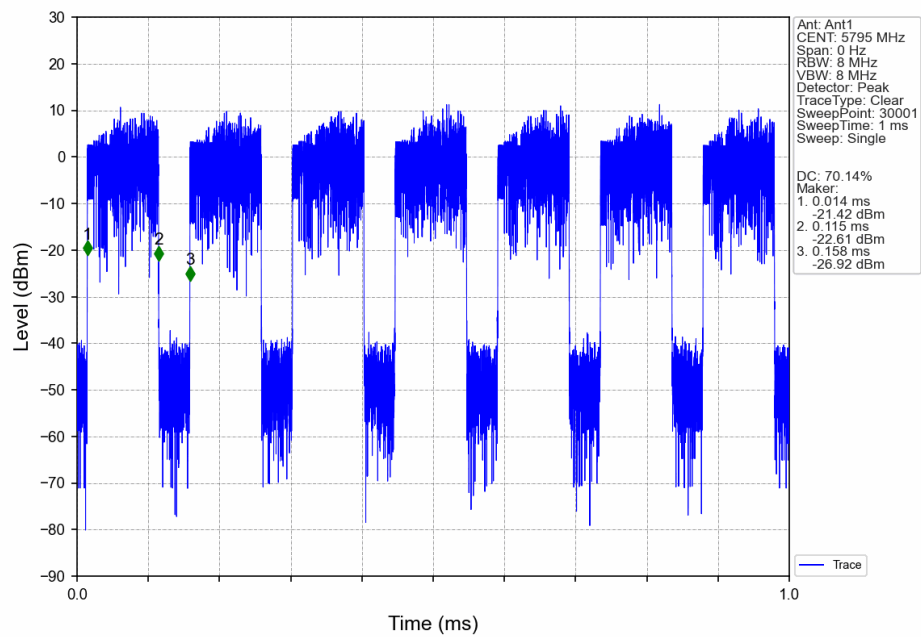
802.11n(HT20)_HCH_5825MHz_Ant2_NTNV



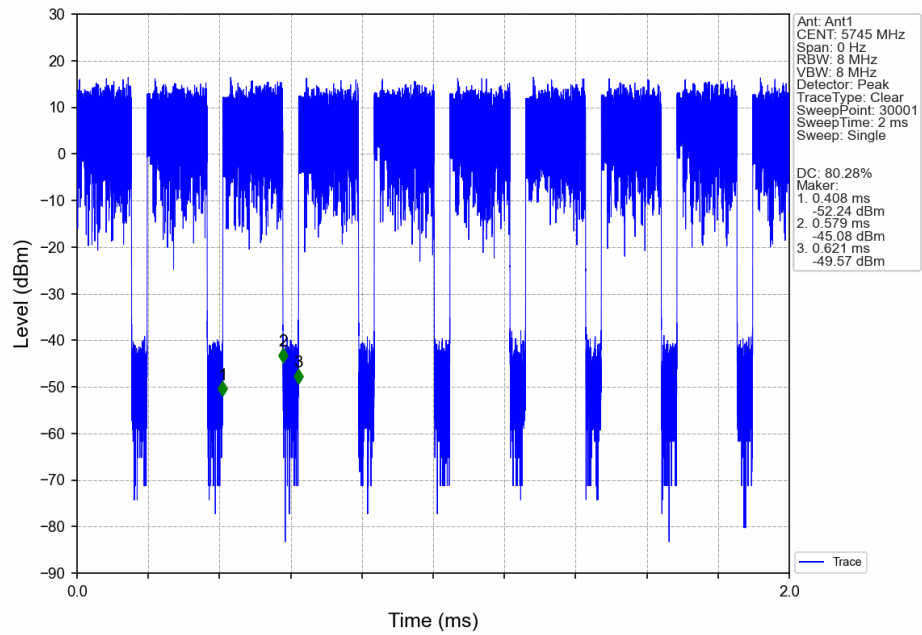
802.11n(HT40)_LCH_5755MHz_Ant2_NTNV



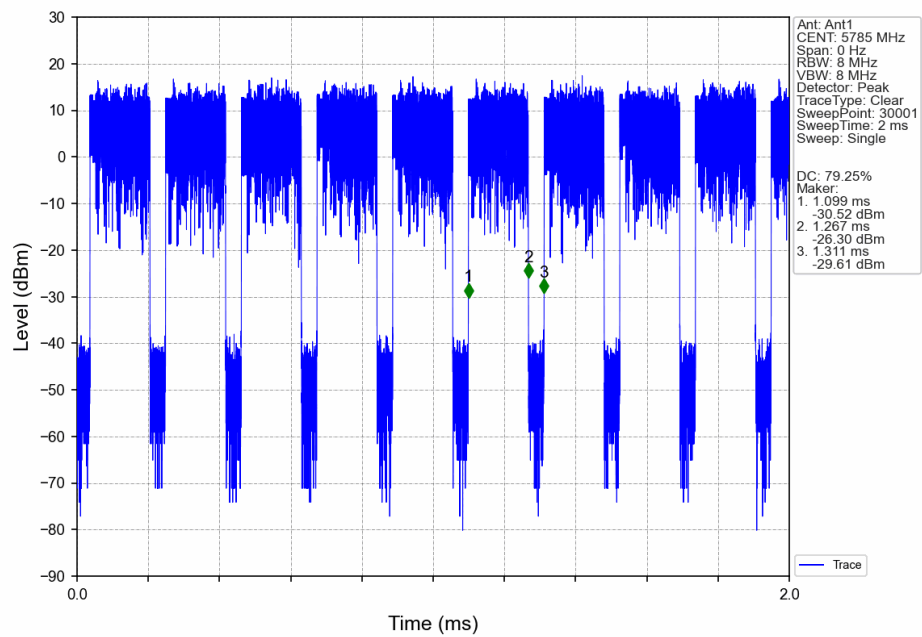
802.11n(HT40)_HCH_5795MHz_Ant2_NTNV



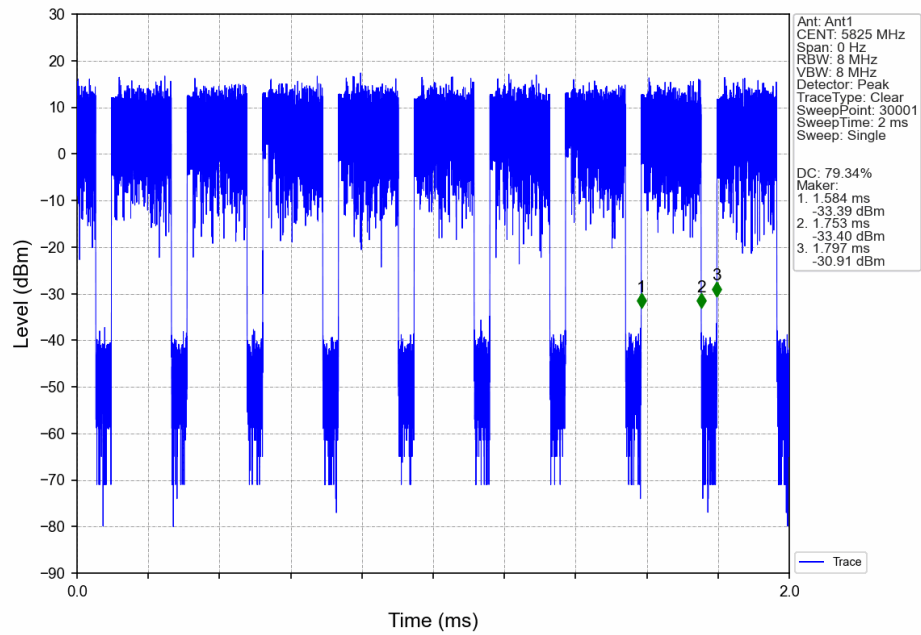
802.11ac(VHT20)_LCH_5745MHz_Ant2_NTNV



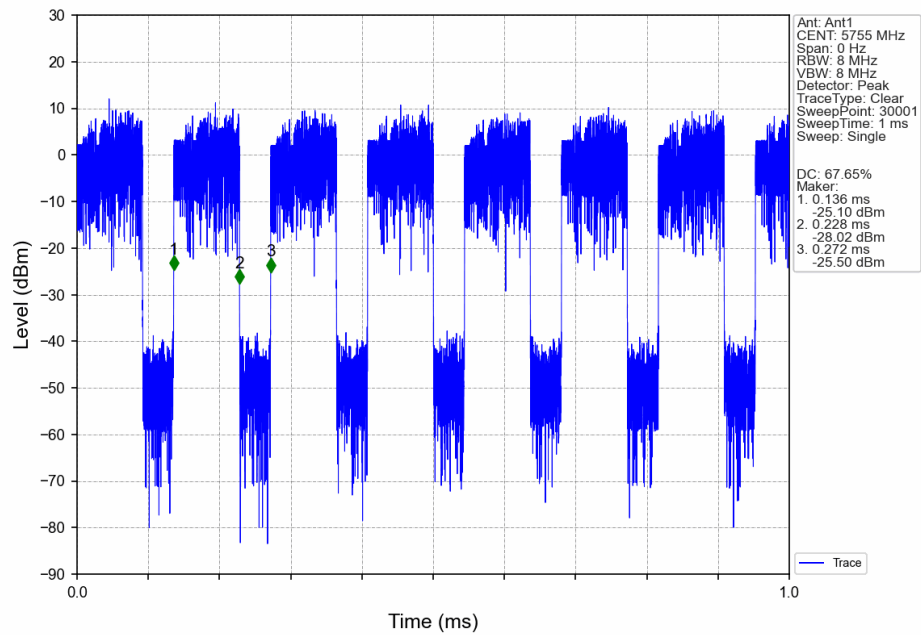
802.11ac(VHT20)_MCH_5785MHz_Ant2_NTNV



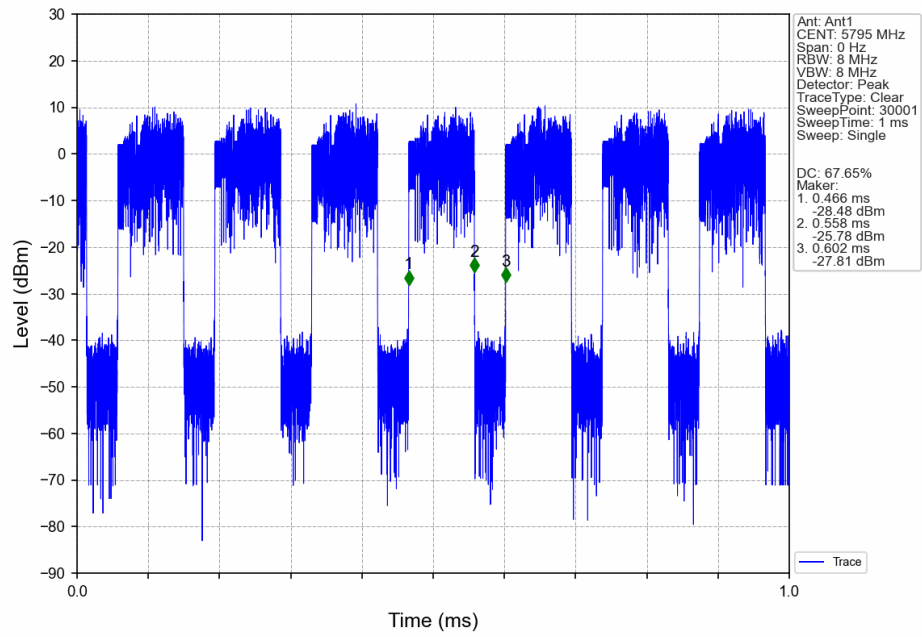
802.11ac(VHT20)_HCH_5825MHz_Ant2_NTNV



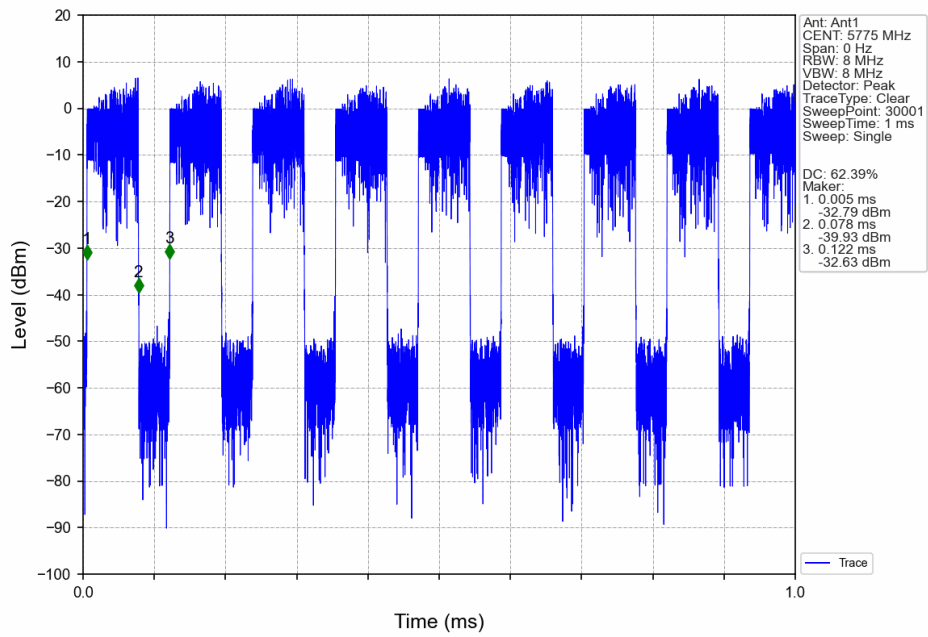
802.11ac(VHT40)_LCH_5755MHz_Ant2_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant2_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant2_NTNV



2. Bandwidth

2.1 Test Result

2.1.1 OBW

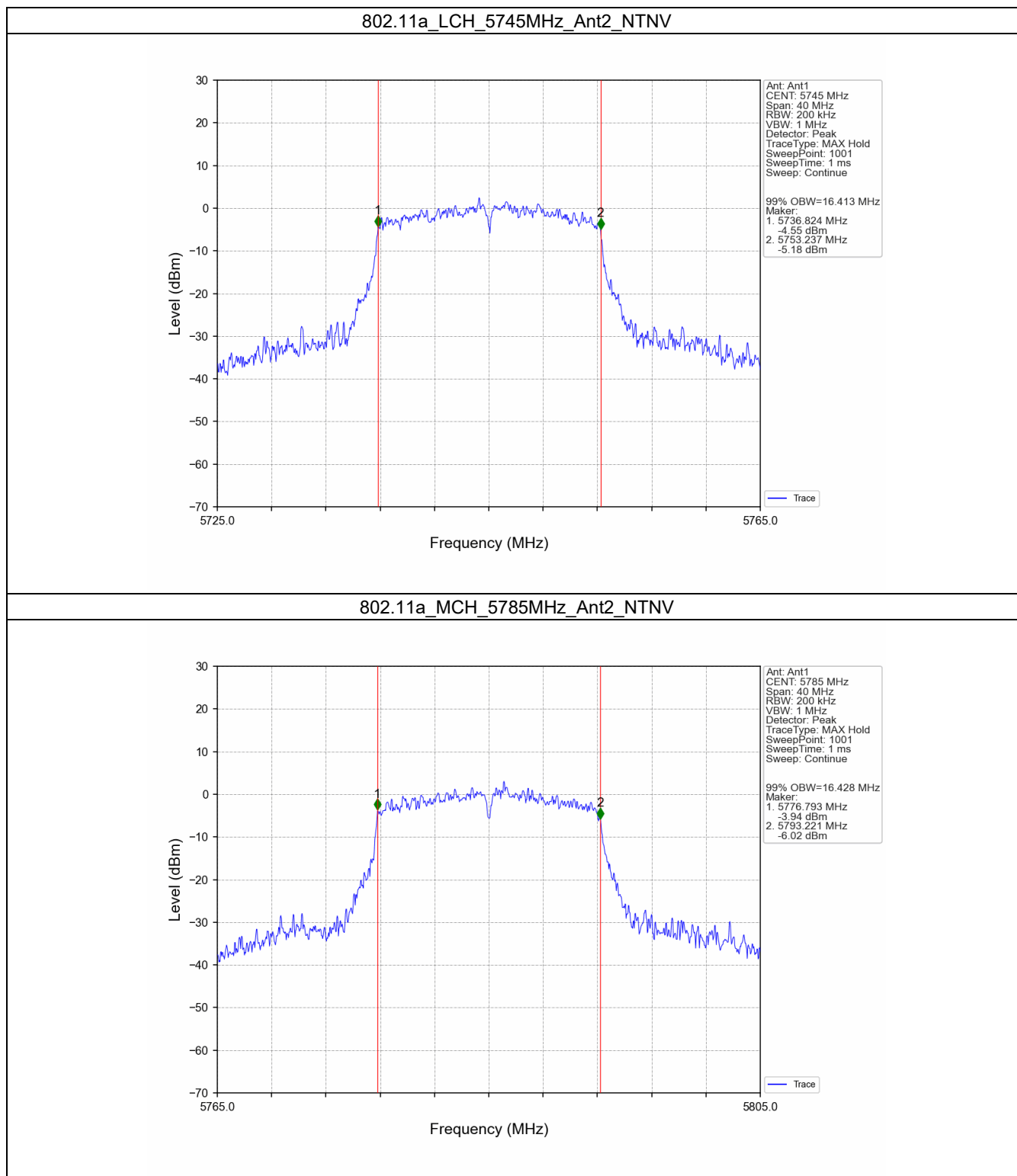
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	16.413	/	Pass
		5785	1	16.428	/	Pass
		5825	1	16.427	/	Pass
802.11n (HT20)	SISO	5745	1	17.562	/	Pass
		5785	1	17.583	/	Pass
		5825	1	17.557	/	Pass
802.11n (HT40)	SISO	5755	1	36.171	/	Pass
		5795	1	36.262	/	Pass
802.11ac (VHT20)	SISO	5745	1	17.610	/	Pass
		5785	1	17.603	/	Pass
		5825	1	17.581	/	Pass
802.11ac (VHT40)	SISO	5755	1	36.157	/	Pass
		5795	1	36.216	/	Pass
802.11ac (VHT80)	SISO	5775	1	75.358	/	Pass

2.1.2 6dB BW

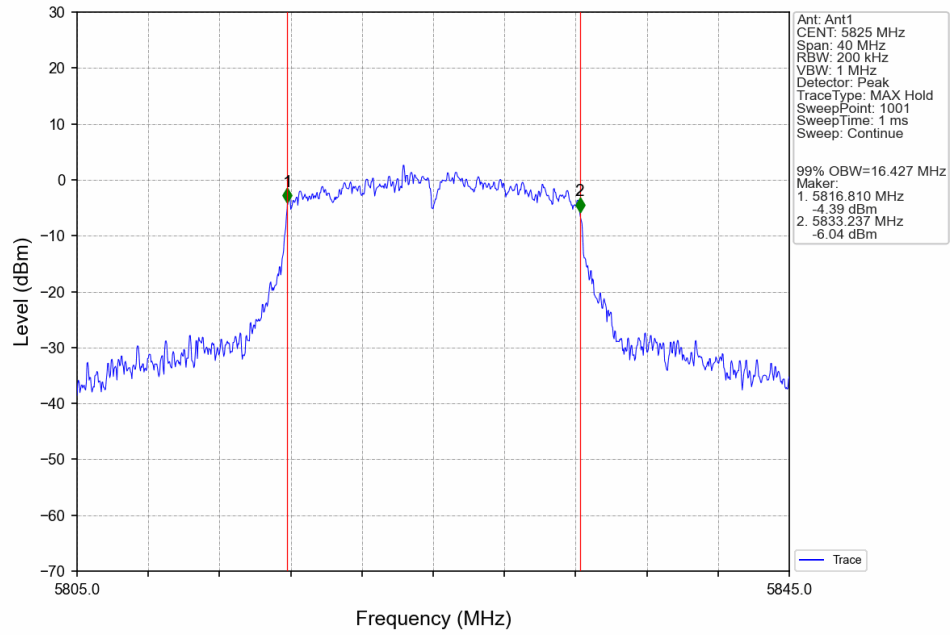
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	15.608	≥ 0.5	Pass
		5785	1	15.176	≥ 0.5	Pass
		5825	1	15.158	≥ 0.5	Pass
802.11n (HT20)	SISO	5745	1	15.156	≥ 0.5	Pass
		5785	1	16.050	≥ 0.5	Pass
		5825	1	15.690	≥ 0.5	Pass
802.11n (HT40)	SISO	5755	1	35.146	≥ 0.5	Pass
		5795	1	35.156	≥ 0.5	Pass
802.11ac (VHT20)	SISO	5745	1	15.158	≥ 0.5	Pass
		5785	1	15.143	≥ 0.5	Pass
		5825	1	15.534	≥ 0.5	Pass
802.11ac (VHT40)	SISO	5755	1	35.154	≥ 0.5	Pass
		5795	1	35.146	≥ 0.5	Pass
802.11ac (VHT80)	SISO	5775	1	75.144	≥ 0.5	Pass

2.2 Test Graph

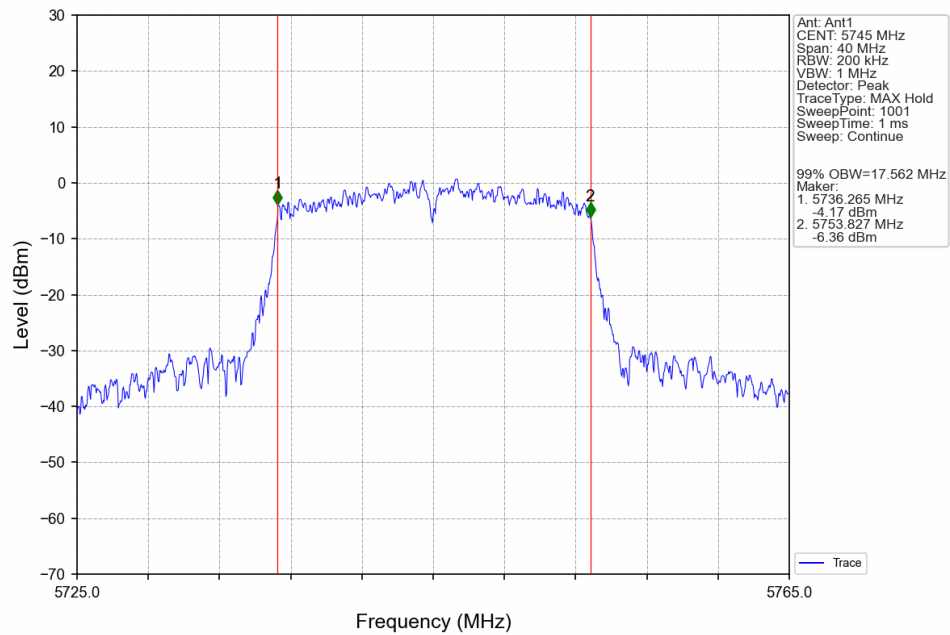
2.2.1 OBW



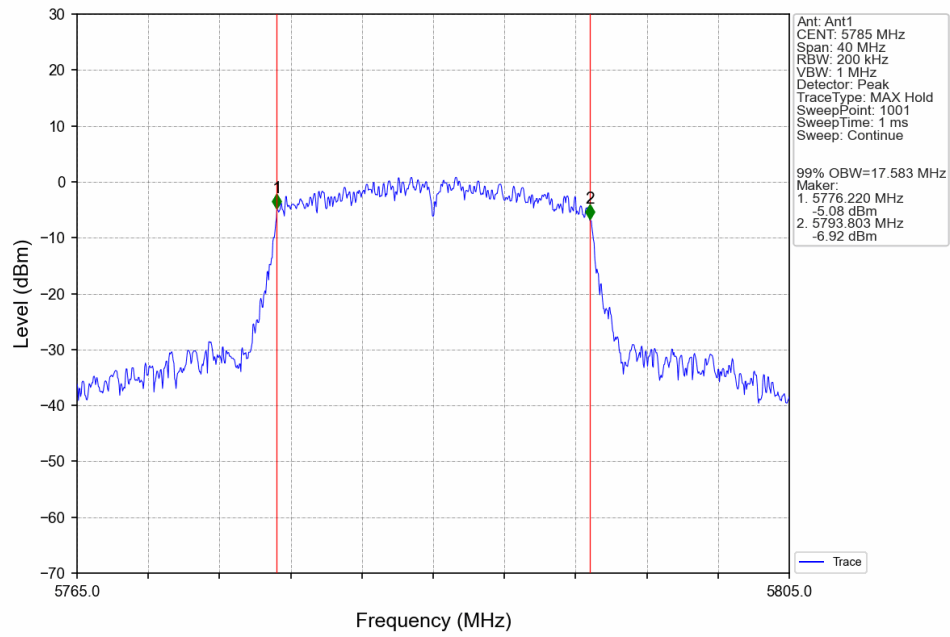
802.11a_HCH_5825MHz_Ant2_NTNV



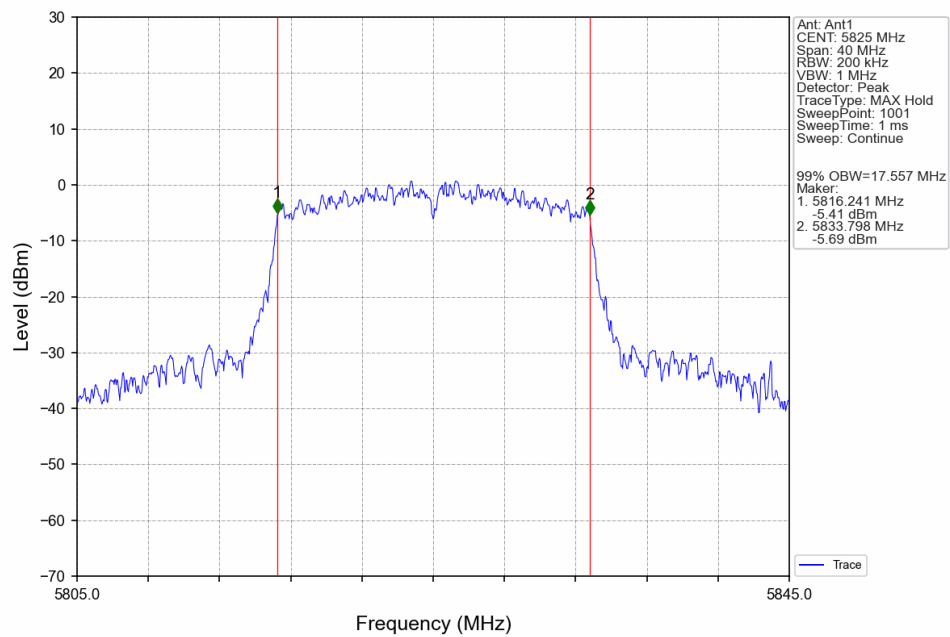
802.11n(HT20)_LCH_5745MHz_Ant2_NTNV



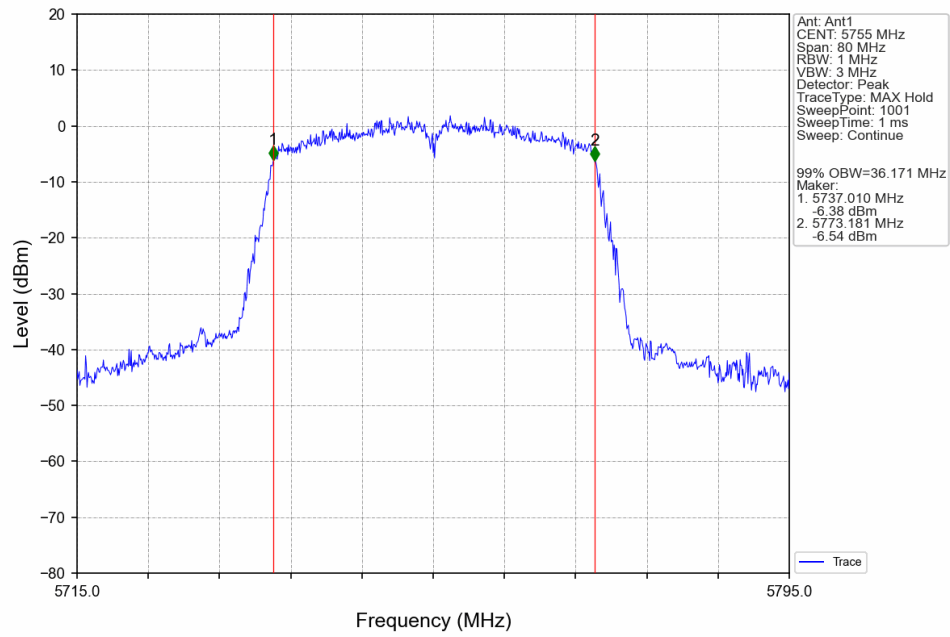
802.11n(HT20)_MCH_5785MHz_Ant2_NTNV



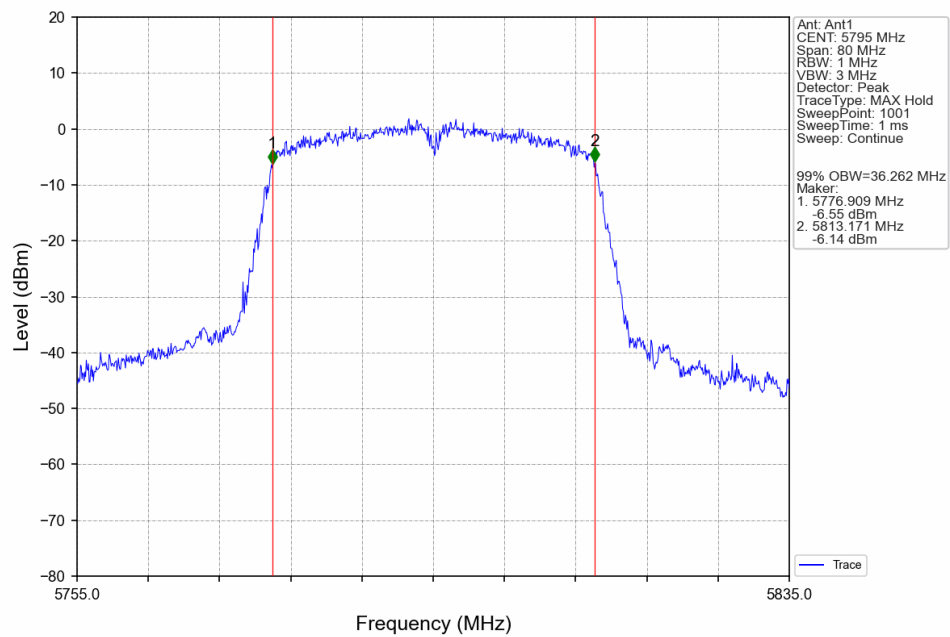
802.11n(HT20)_HCH_5825MHz_Ant2_NTNV



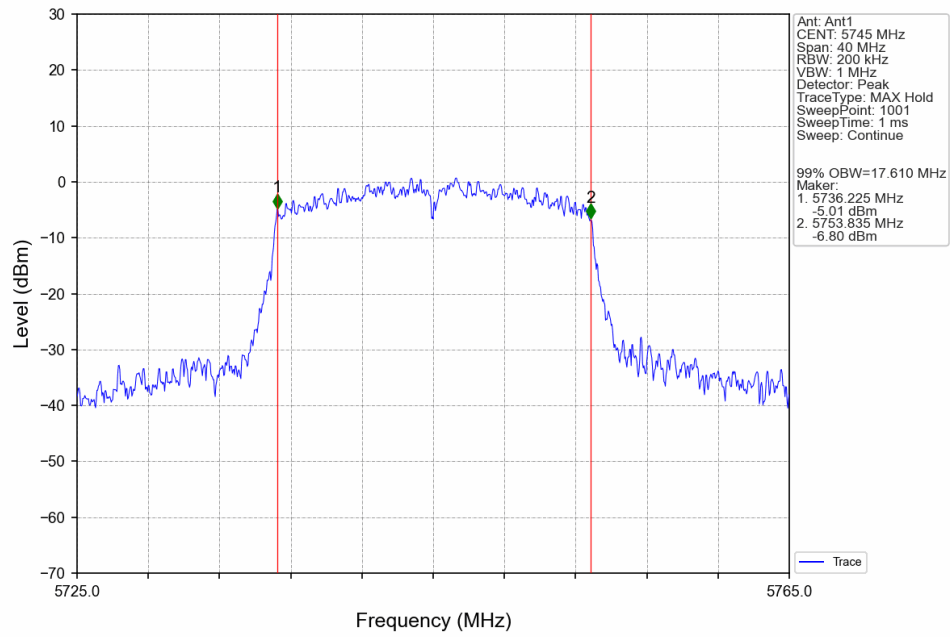
802.11n(HT40)_LCH_5755MHz_Ant2_NTNV



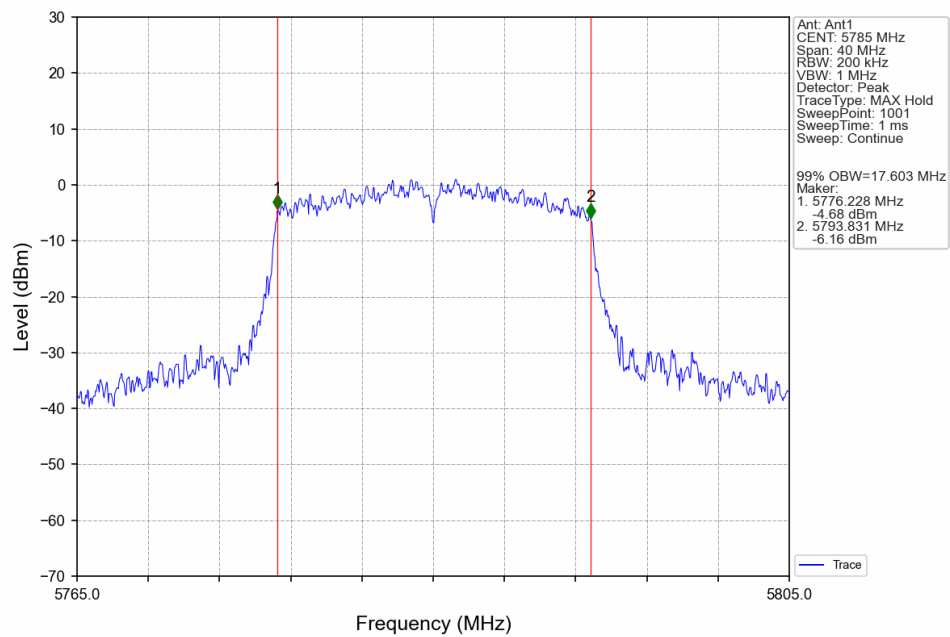
802.11n(HT40)_HCH_5795MHz_Ant2_NTNV



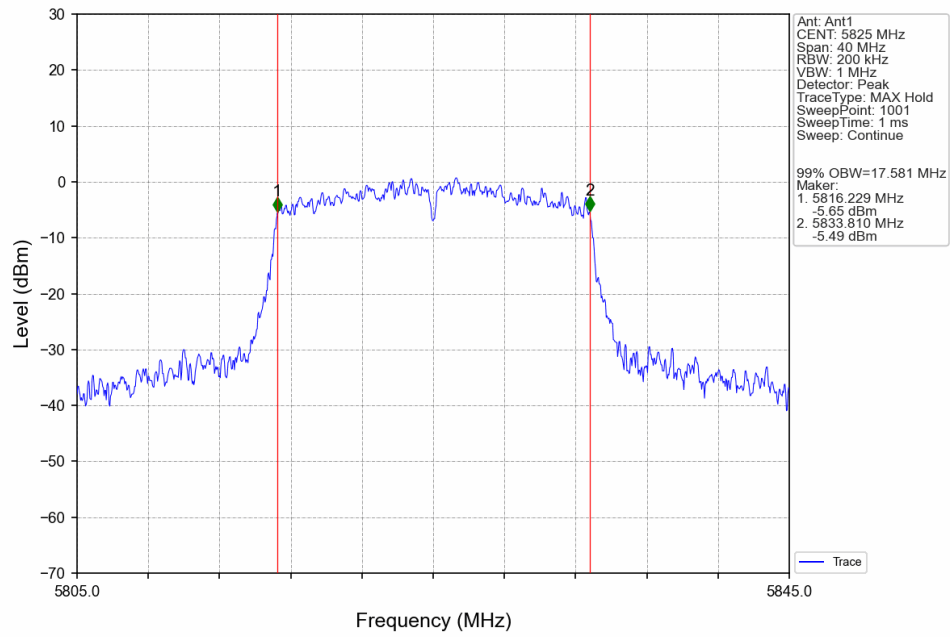
802.11ac(VHT20)_LCH_5745MHz_Ant2_NTNV



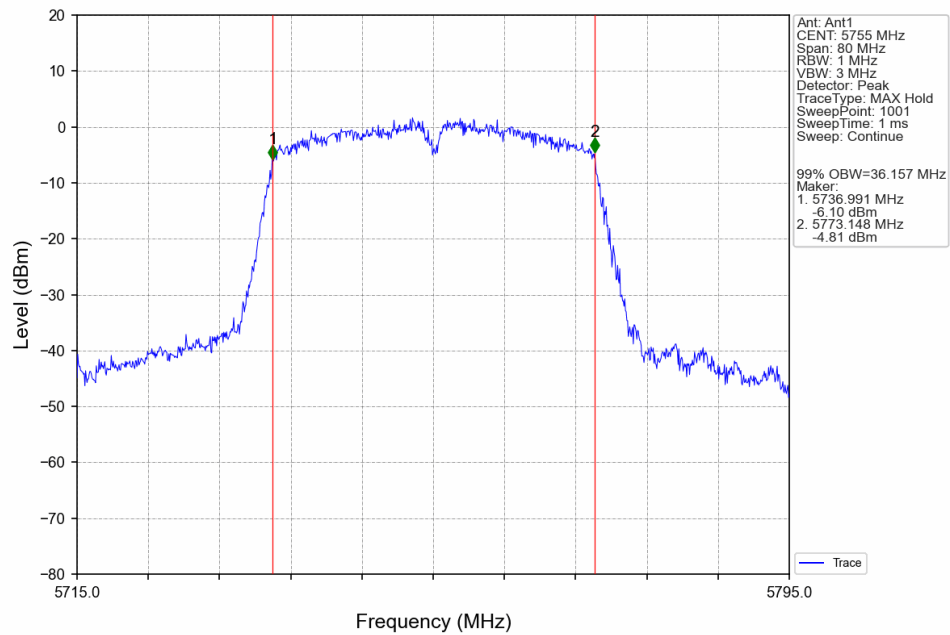
802.11ac(VHT20)_MCH_5785MHz_Ant2_NTNV



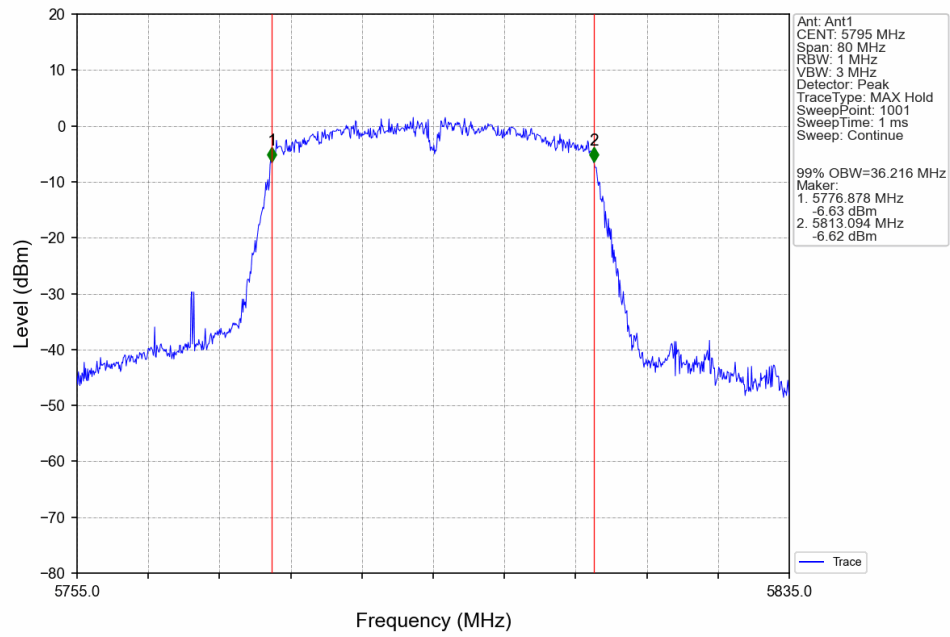
802.11ac(VHT20)_HCH_5825MHz_Ant2_NTNV



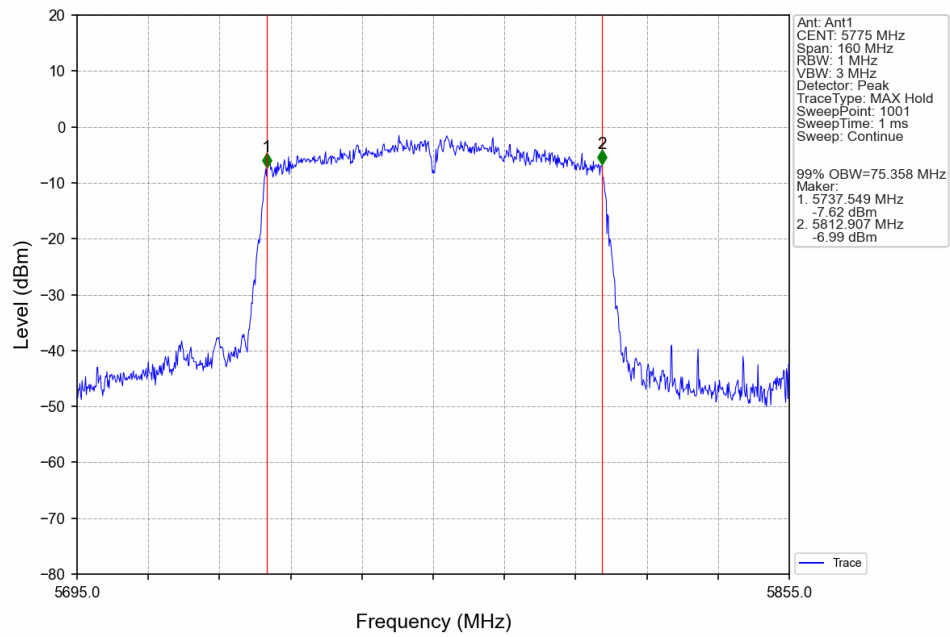
802.11ac(VHT40)_LCH_5755MHz_Ant2_NTNV



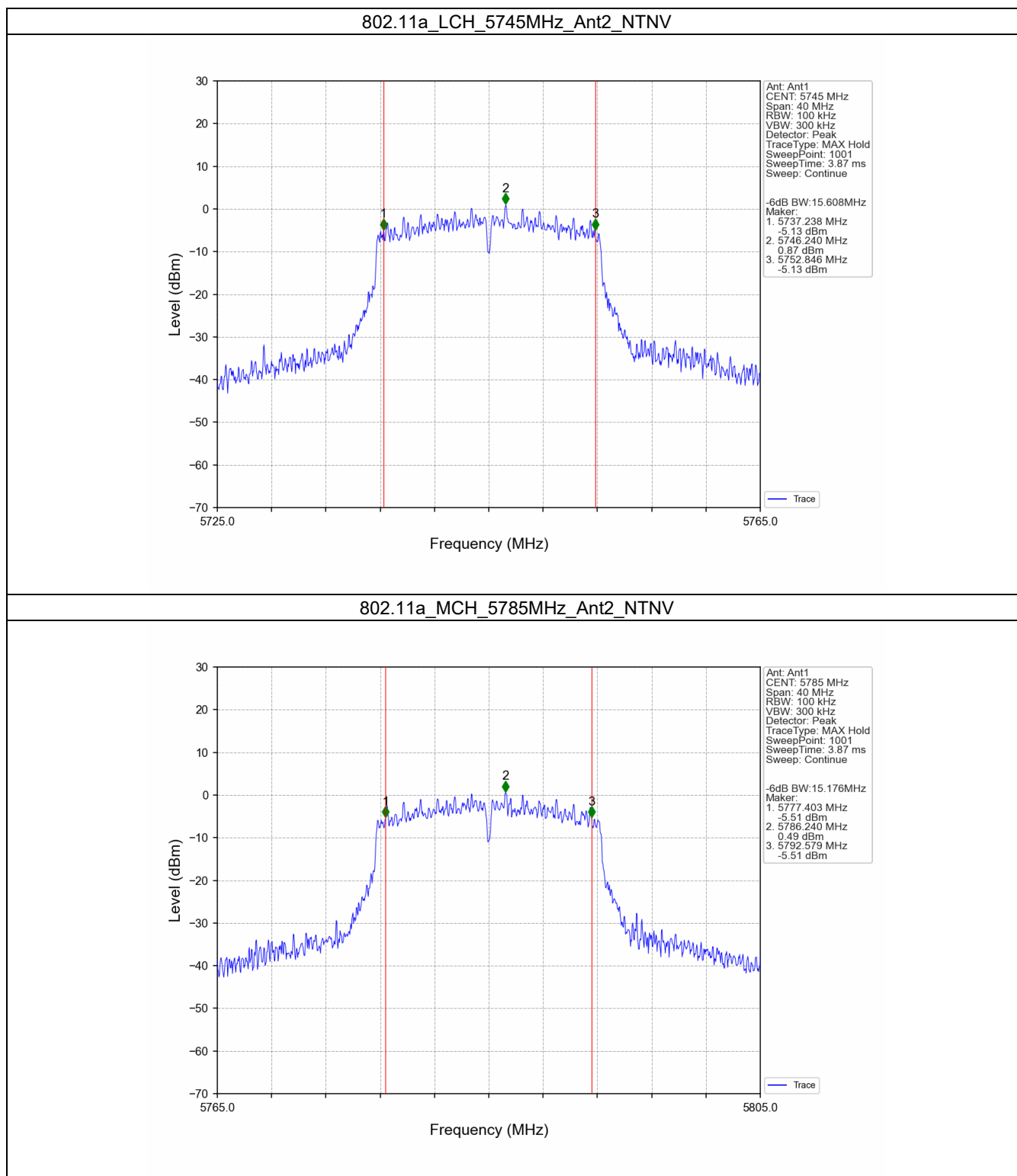
802.11ac(VHT40)_HCH_5795MHz_Ant2_NTNV



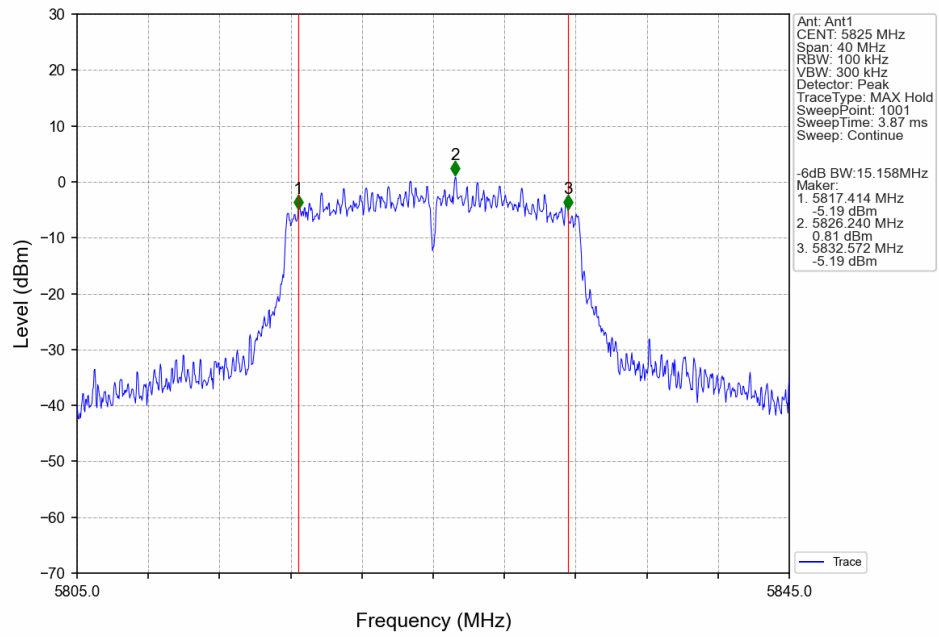
802.11ac(VHT80)_MCH_5775MHz_Ant2_NTNV



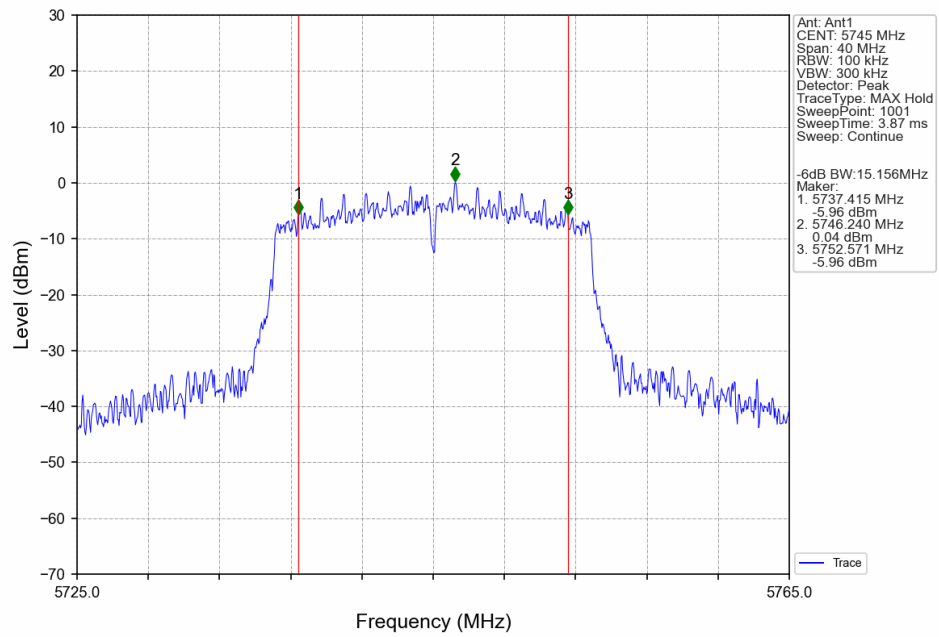
2.2.2 6dB BW



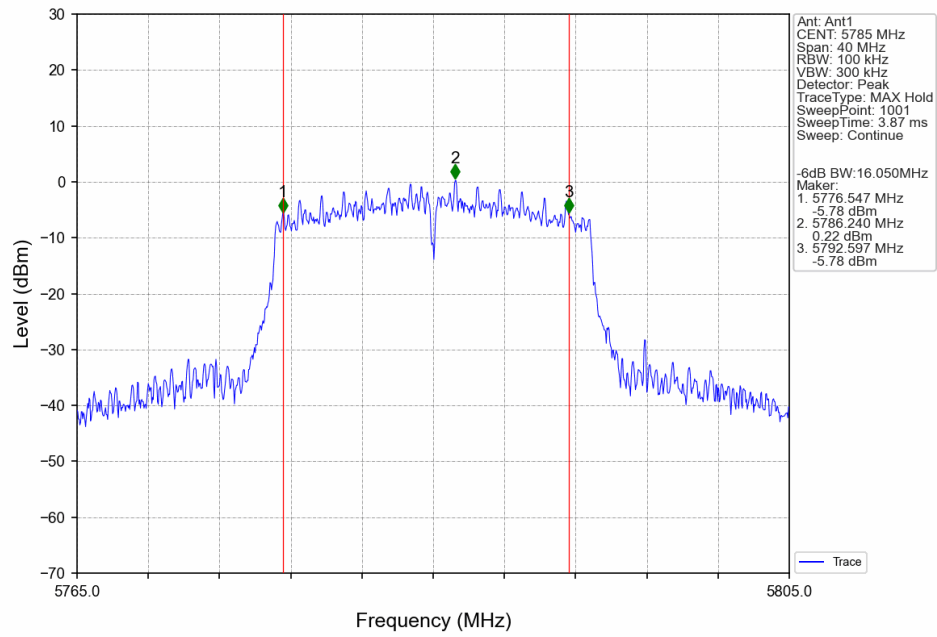
802.11a_HCH_5825MHz_Ant2_NTNV



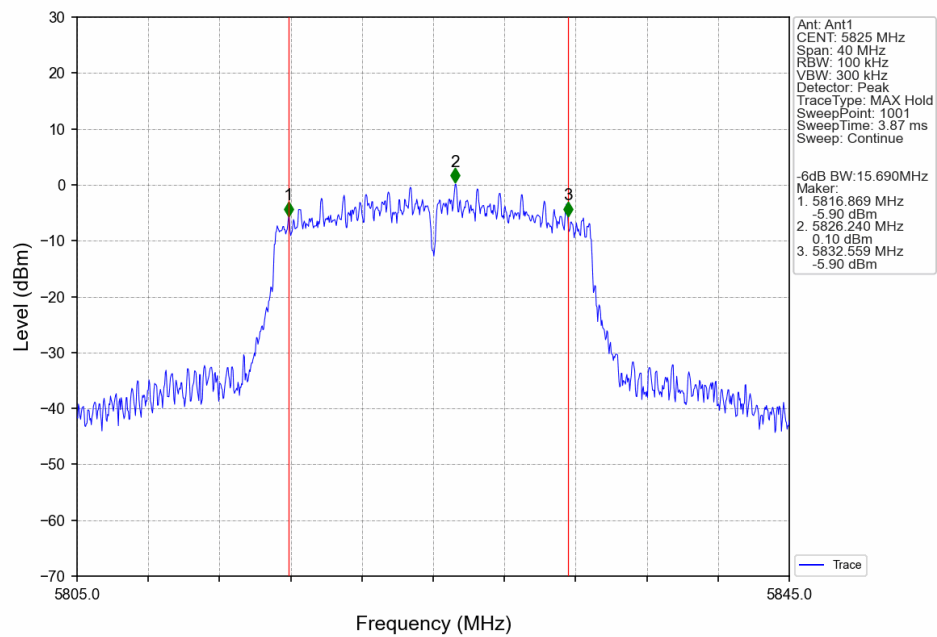
802.11n(HT20)_LCH_5745MHz_Ant2_NTNV



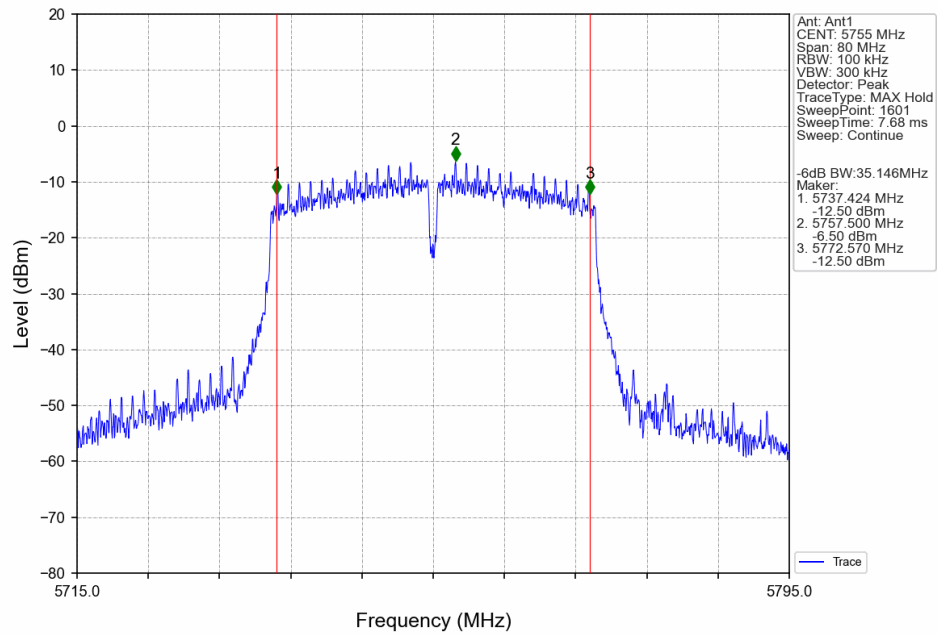
802.11n(HT20)_MCH_5785MHz_Ant2_NTNV



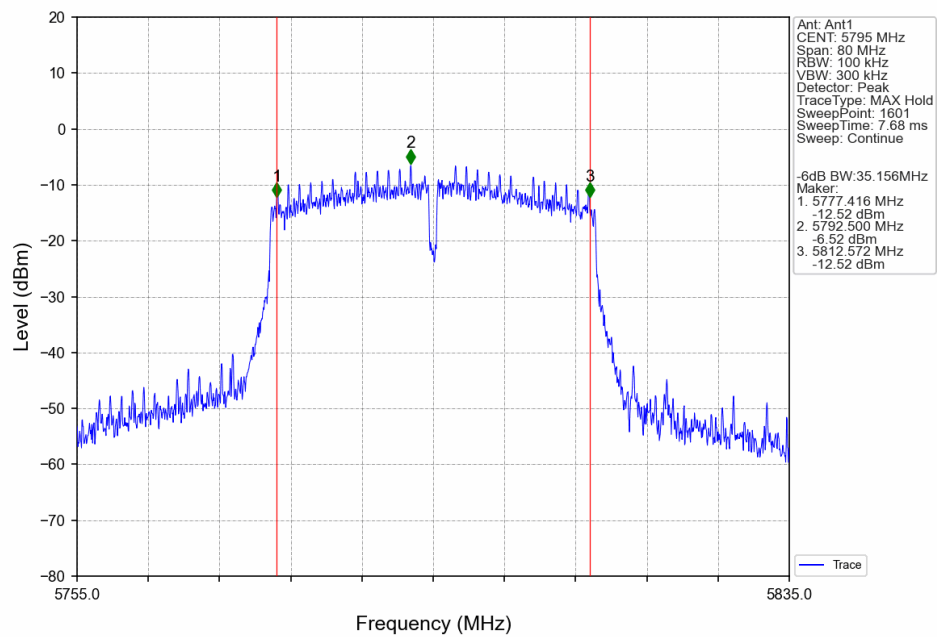
802.11n(HT20)_HCH_5825MHz_Ant2_NTNV



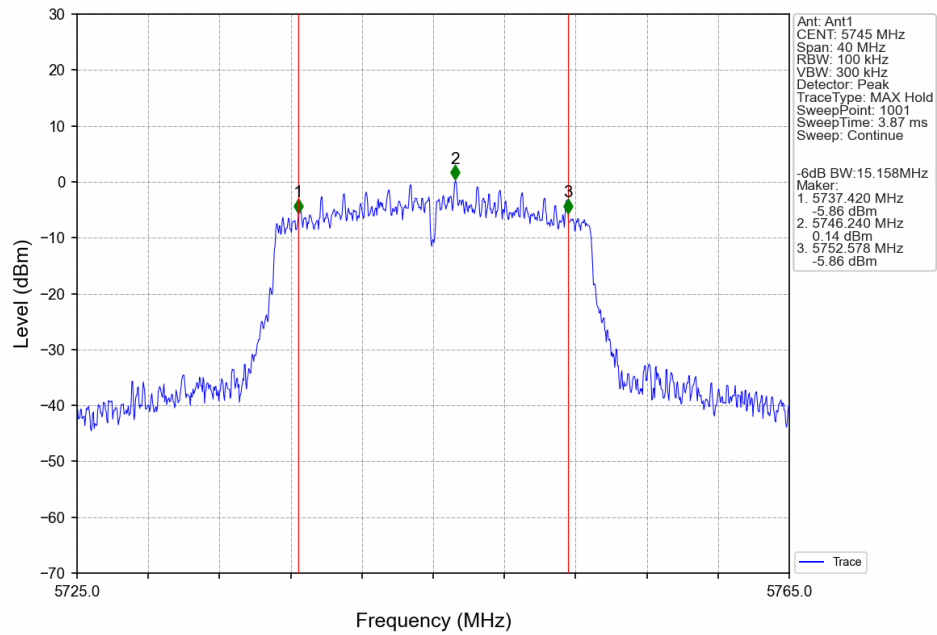
802.11n(HT40)_LCH_5755MHz_Ant2_NTNV



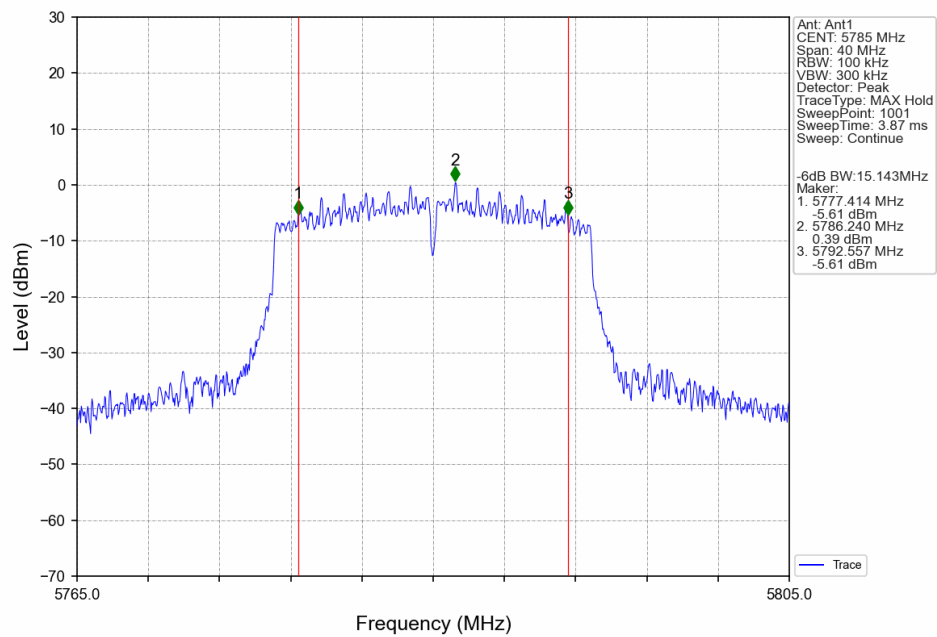
802.11n(HT40)_HCH_5795MHz_Ant2_NTNV



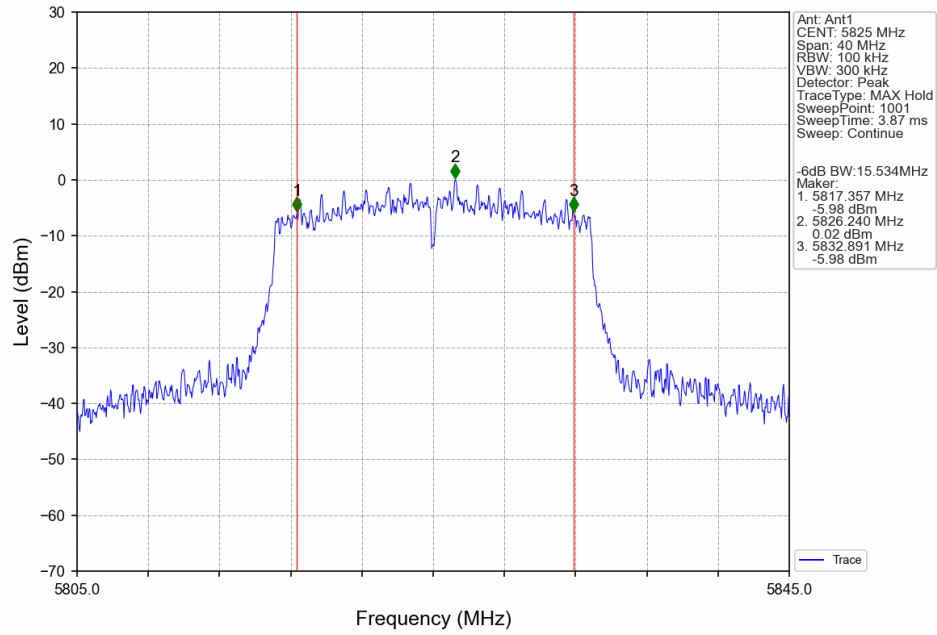
802.11ac(VHT20)_LCH_5745MHz_Ant2_NTNV



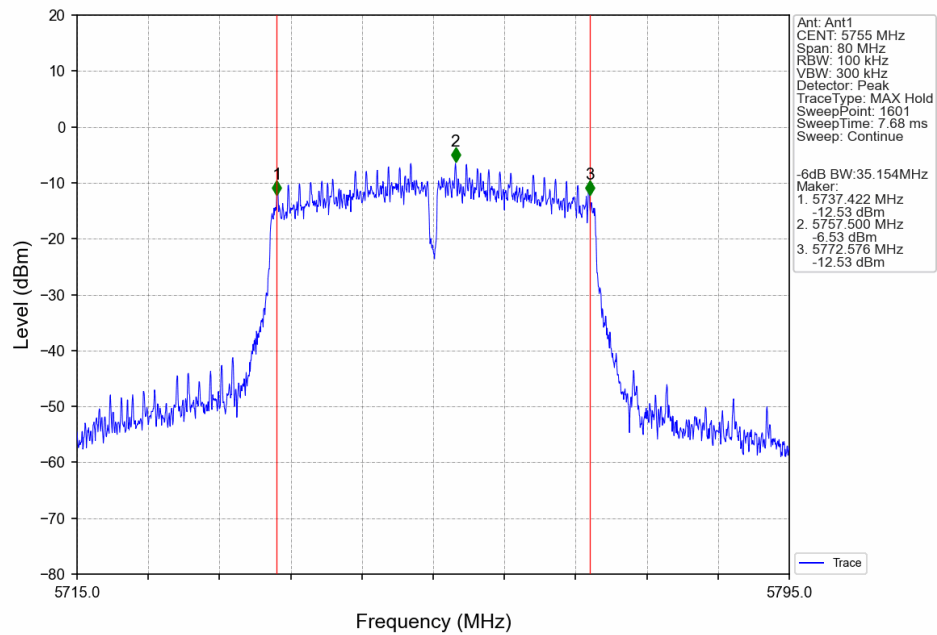
802.11ac(VHT20)_MCH_5785MHz_Ant2_NTNV



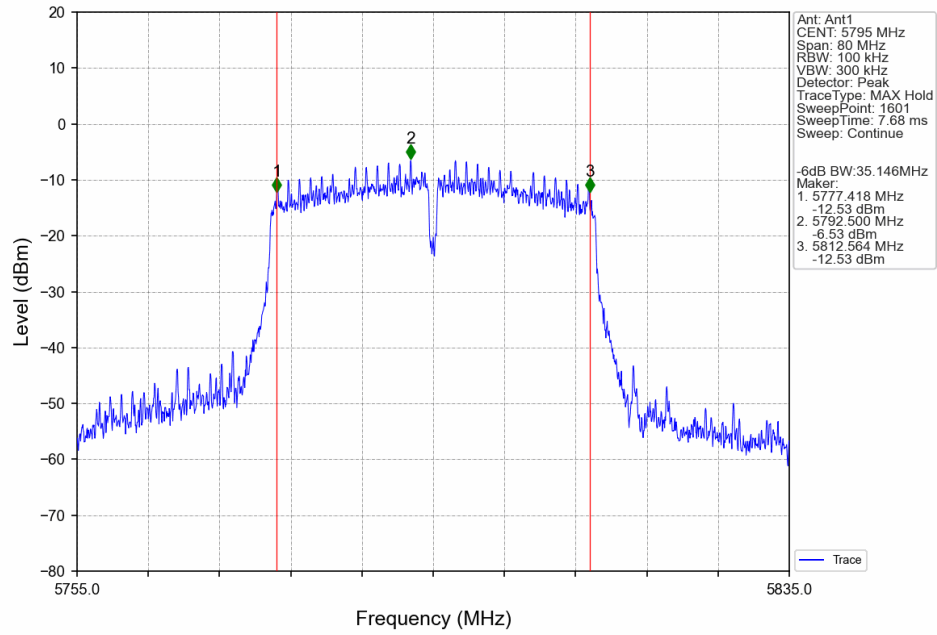
802.11ac(VHT20)_HCH_5825MHz_Ant2_NTNV



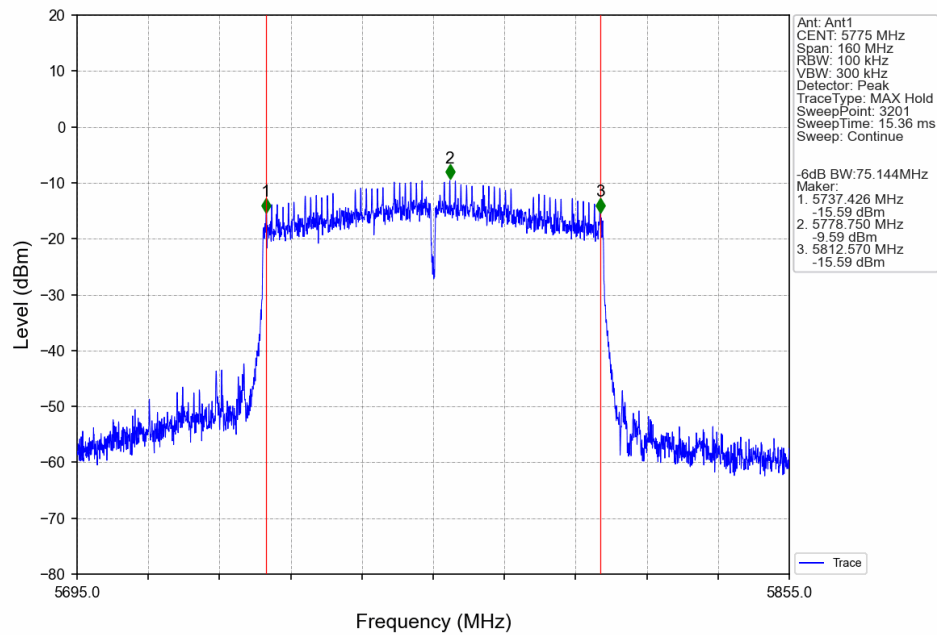
802.11ac(VHT40)_LCH_5755MHz_Ant2_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant2_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant2_NTNV



3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	ANT2				Verdict
			Conducted Output Power (dBm)	Duty Factor (dB)	Total Output Power (dBm)	Limit (dBm)	
802.11a	SISO	5745	9.77	0.97	10.74	<=30	Pass
		5785	9.87	0.96	10.83	<=30	Pass
		5825	9.71	0.92	10.63	<=30	Pass
802.11n (HT20)	SISO	5745	8.78	1.01	9.79	<=30	Pass
		5785	9.04	1.03	10.07	<=30	Pass
		5825	8.92	1.03	9.95	<=30	Pass
802.11n (HT40)	SISO	5755	4.88	1.53	6.41	<=30	Pass
		5795	4.88	1.54	6.42	<=30	Pass
802.11ac (VHT20)	SISO	5745	8.89	0.95	9.84	<=30	Pass
		5785	9.19	1.01	10.20	<=30	Pass
		5825	8.86	1.00	9.86	<=30	Pass
802.11ac (VHT40)	SISO	5755	4.64	1.70	6.34	<=30	Pass
		5795	4.72	1.70	6.42	<=30	Pass
802.11ac (VHT80)	SISO	5775	3.71	2.05	5.76	<=30	Pass

Condition	Mode	Frequency (MHz)	Total Output Power (dBm)		ANT1&ANT2 MIMO Conducted Output Power(dBm)	Limit (dBm)
			ANT1	ANT2		
NVNT	n20	5745	9.97	9.79	14.89	<=30
NVNT	n20	5785	10.11	10.07	15.10	<=30
NVNT	n20	5825	9.80	9.95	14.89	<=30
NVNT	n40	5755	6.23	6.41	11.33	<=30
NVNT	n40	5795	6.35	6.42	11.40	<=30
NVNT	ac20	5745	9.76	9.84	14.81	<=30
NVNT	ac20	5785	9.98	10.20	15.10	<=30
NVNT	ac20	5825	9.83	9.86	14.86	<=30
NVNT	ac40	5755	5.34	6.34	10.88	<=30
NVNT	ac40	5795	6.24	6.42	11.34	<=30
NVNT	ac80	5775	5.59	5.76	10.69	<=30

4. Maximum Power Spectral Density

4.1 Test Result

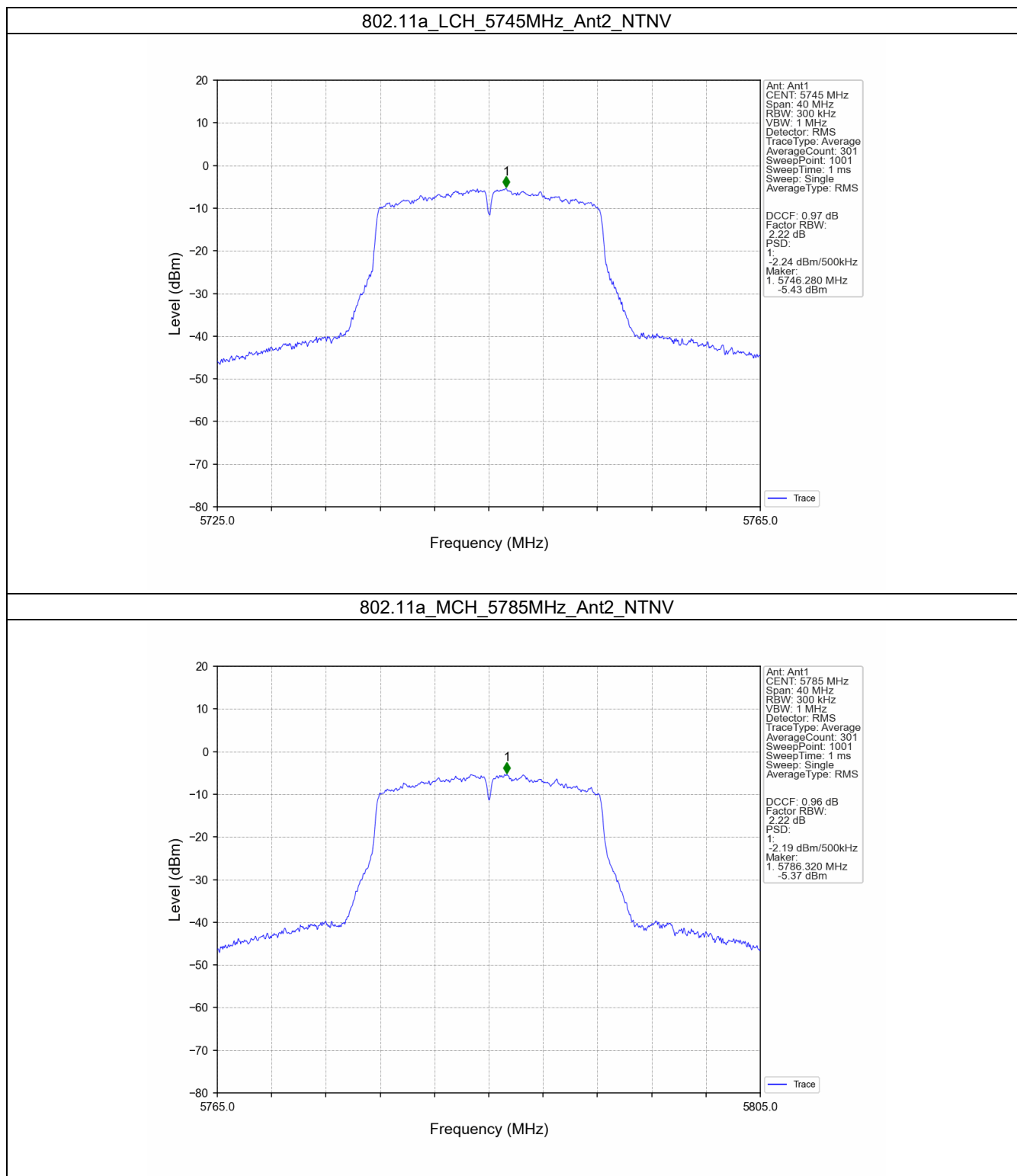
4.1.1 PSD-Band3

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)		Verdict
			ANT2	Limit	
802.11a	SISO	5745	-2.24	<=30	Pass
		5785	-2.19	<=30	Pass
		5825	-2.33	<=30	Pass
802.11n (HT20)	SISO	5745	-2.91	<=30	Pass
		5785	-2.83	<=30	Pass
		5825	-2.90	<=30	Pass
802.11n (HT40)	SISO	5755	-9.15	<=30	Pass
		5795	-8.76	<=30	Pass
802.11ac (VHT20)	SISO	5745	-2.68	<=30	Pass
		5785	-2.27	<=30	Pass
		5825	-3.14	<=30	Pass
802.11ac (VHT40)	SISO	5755	-8.92	<=30	Pass
		5795	-8.81	<=30	Pass
802.11ac (VHT80)	SISO	5775	-12.09	<=30	Pass

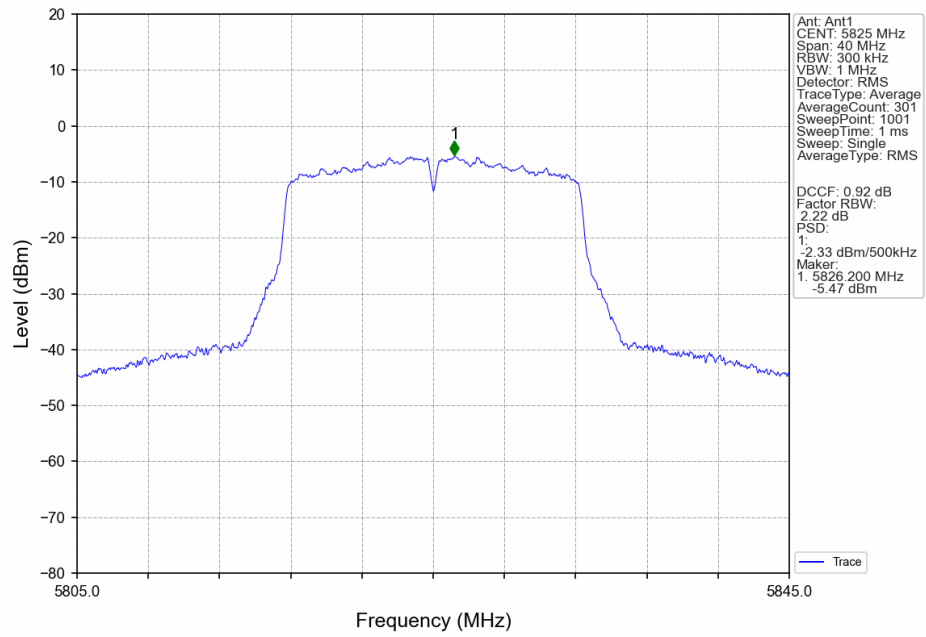
Condition	Mode	Frequency (MHz)	Power Spectral Density (dBm)		ANT1&ANT2 MIMO Power Spectral Density (dBm)	Limit (dBm)
			ANT1	ANT2		
NVNT	n20	5745	-2.43	-2.91	0.35	<=30
NVNT	n20	5785	-2.26	-2.83	0.47	<=30
NVNT	n20	5825	-3.02	-2.90	0.05	<=30
NVNT	n40	5755	-8.93	-9.15	-6.03	<=30
NVNT	n40	5795	-8.97	-8.76	-5.85	<=30
NVNT	ac20	5745	-2.61	-2.68	0.37	<=30
NVNT	ac20	5785	-2.71	-2.27	0.53	<=30
NVNT	ac20	5825	-2.52	-3.14	0.19	<=30
NVNT	ac40	5755	-9.46	-8.92	-6.17	<=30
NVNT	ac40	5795	-8.92	-8.81	-5.85	<=30
NVNT	ac80	5775	-12.76	-12.09	-9.40	<=30

4.2 Test Graph

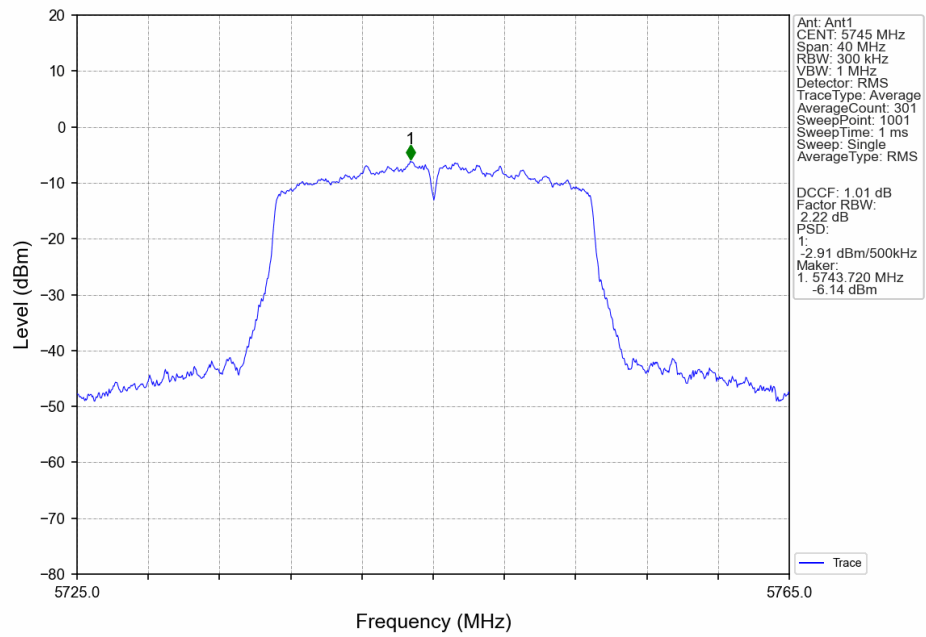
4.2.1 PSD-Band3



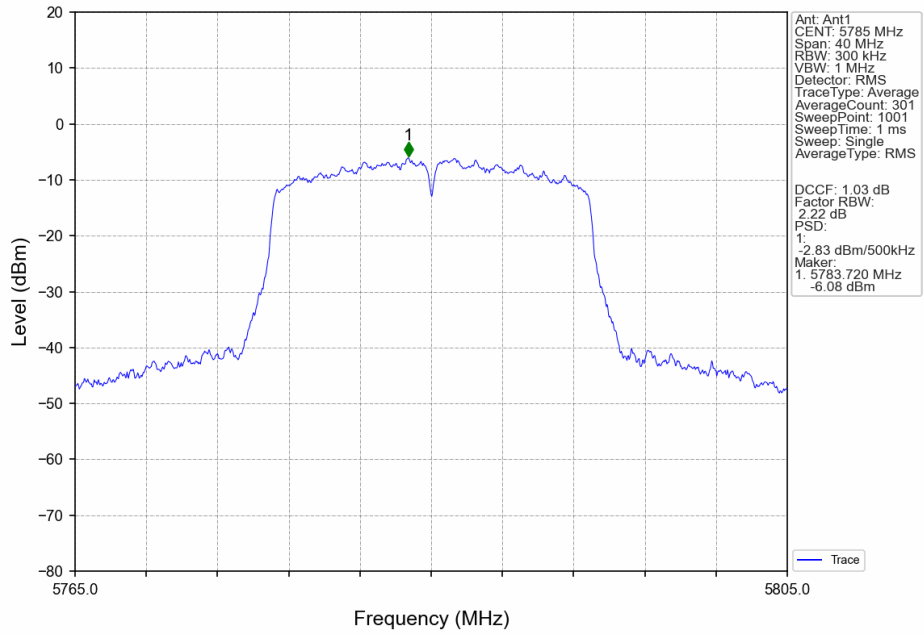
802.11a_HCH_5825MHz_Ant2_NTNV



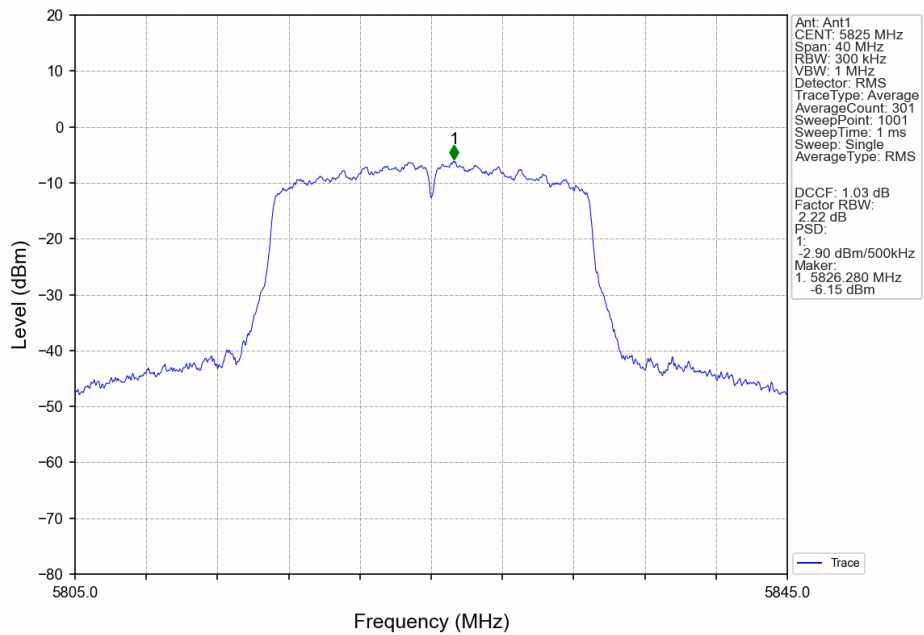
802.11n(HT20)_LCH_5745MHz_Ant2_NTNV



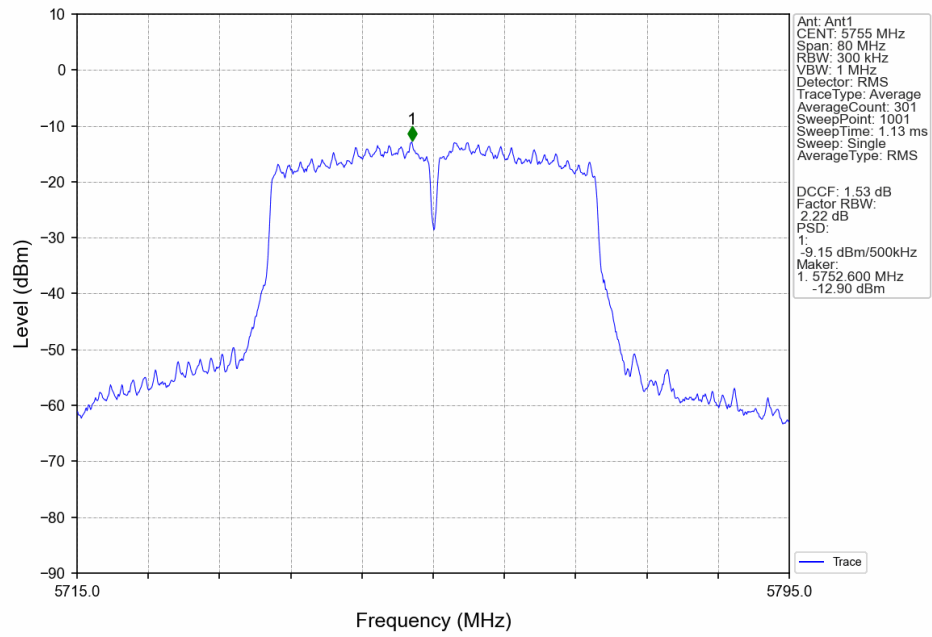
802.11n(HT20)_MCH_5785MHz_Ant2_NTNV



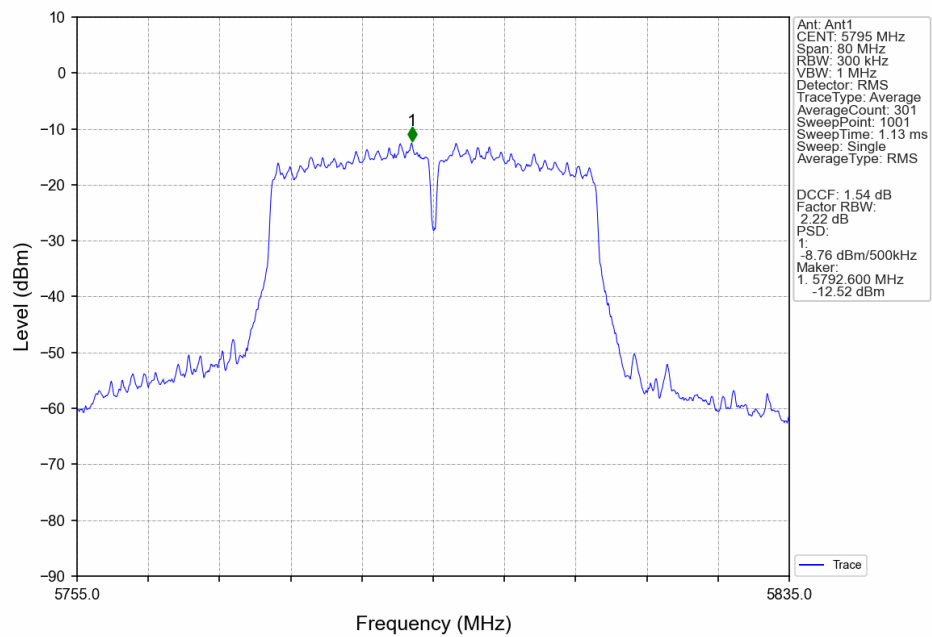
802.11n(HT20)_HCH_5825MHz_Ant2_NTNV



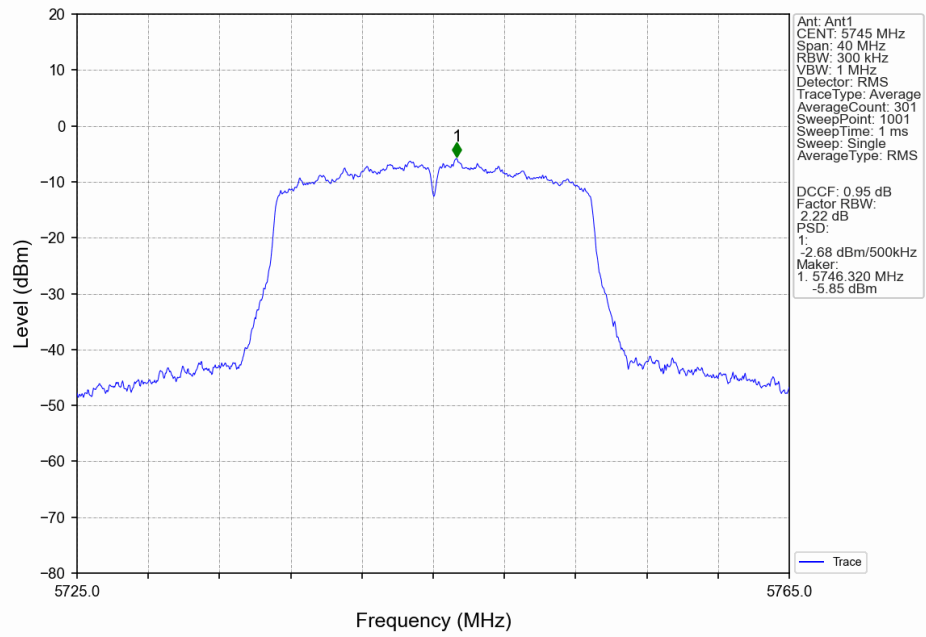
802.11n(HT40)_LCH_5755MHz_Ant2_NTNV



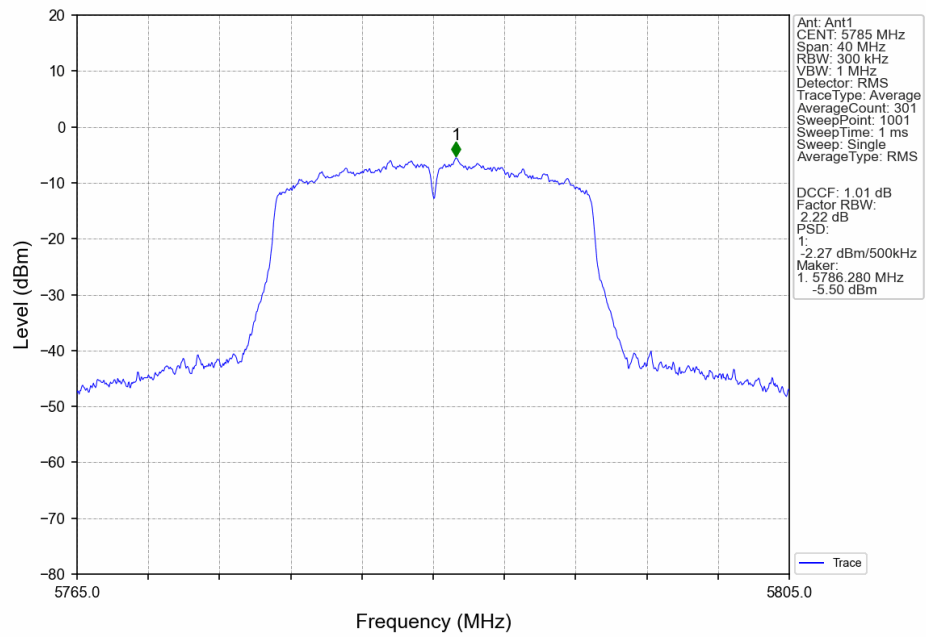
802.11n(HT40)_HCH_5795MHz_Ant2_NTNV



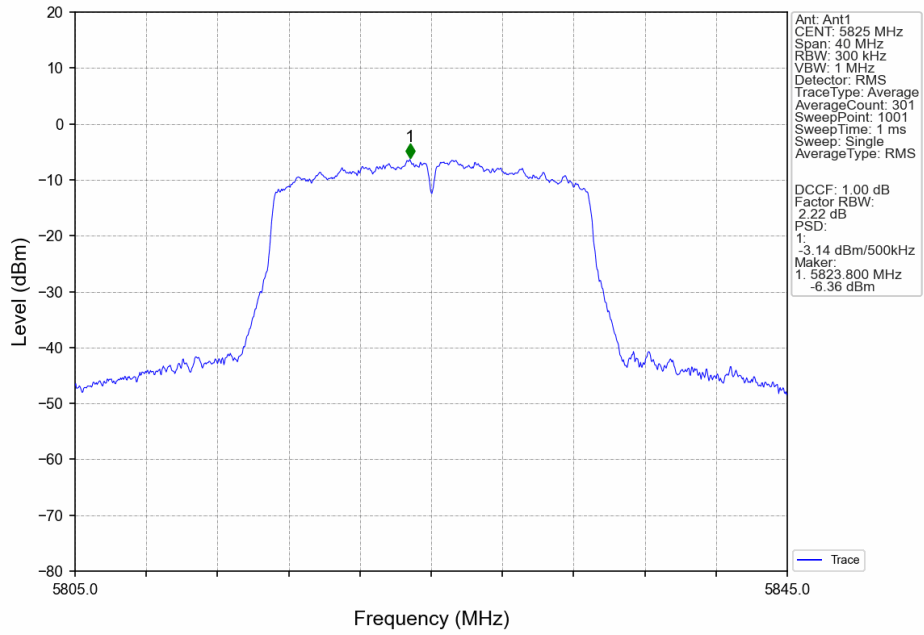
802.11ac(VHT20)_LCH_5745MHz_Ant2_NTNV



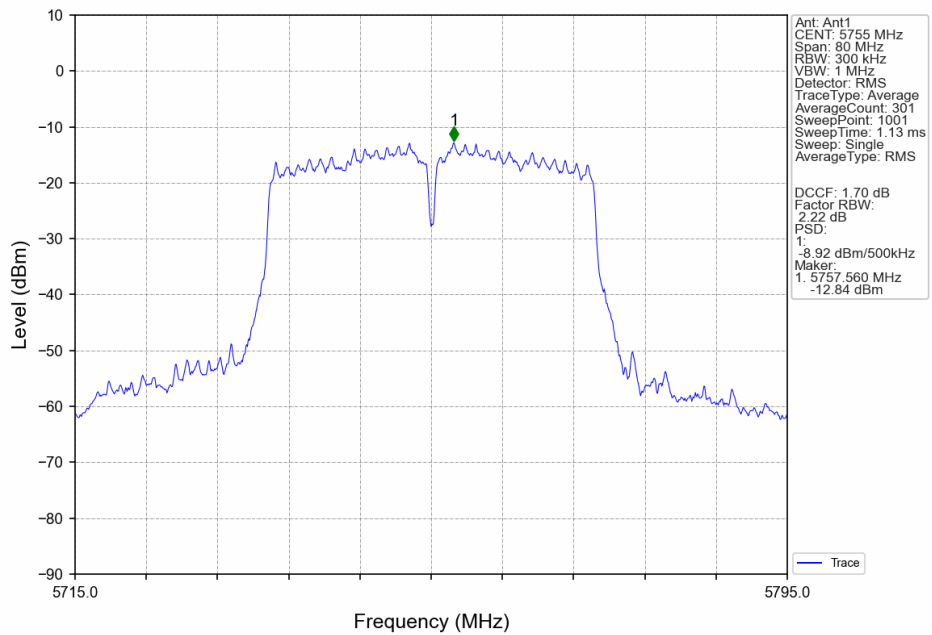
802.11ac(VHT20)_MCH_5785MHz_Ant2_NTNV



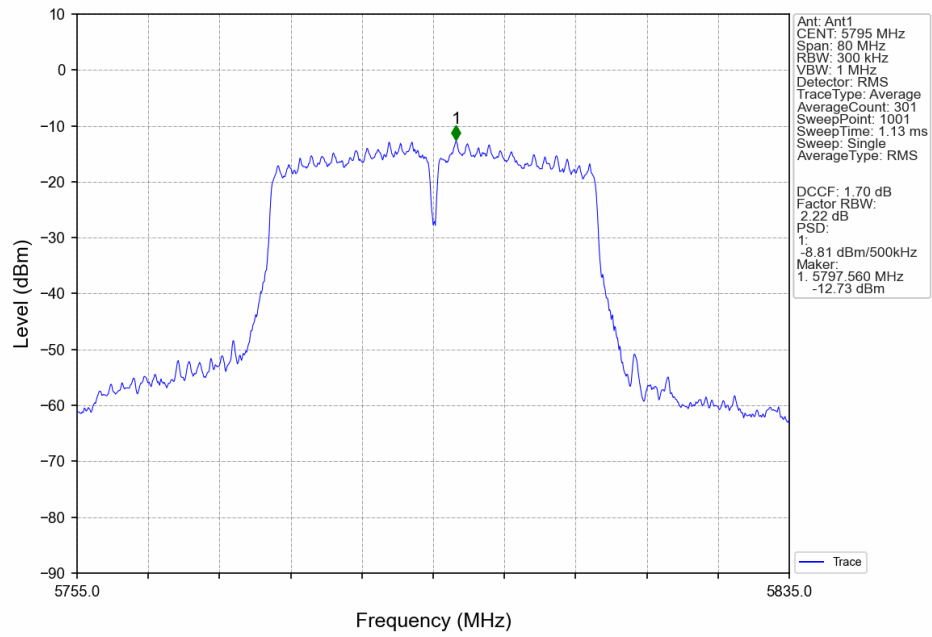
802.11ac(VHT20)_HCH_5825MHz_Ant2_NTNV



802.11ac(VHT40)_LCH_5755MHz_Ant2_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant2_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant2_NTNV

