

1. Duty Cycle

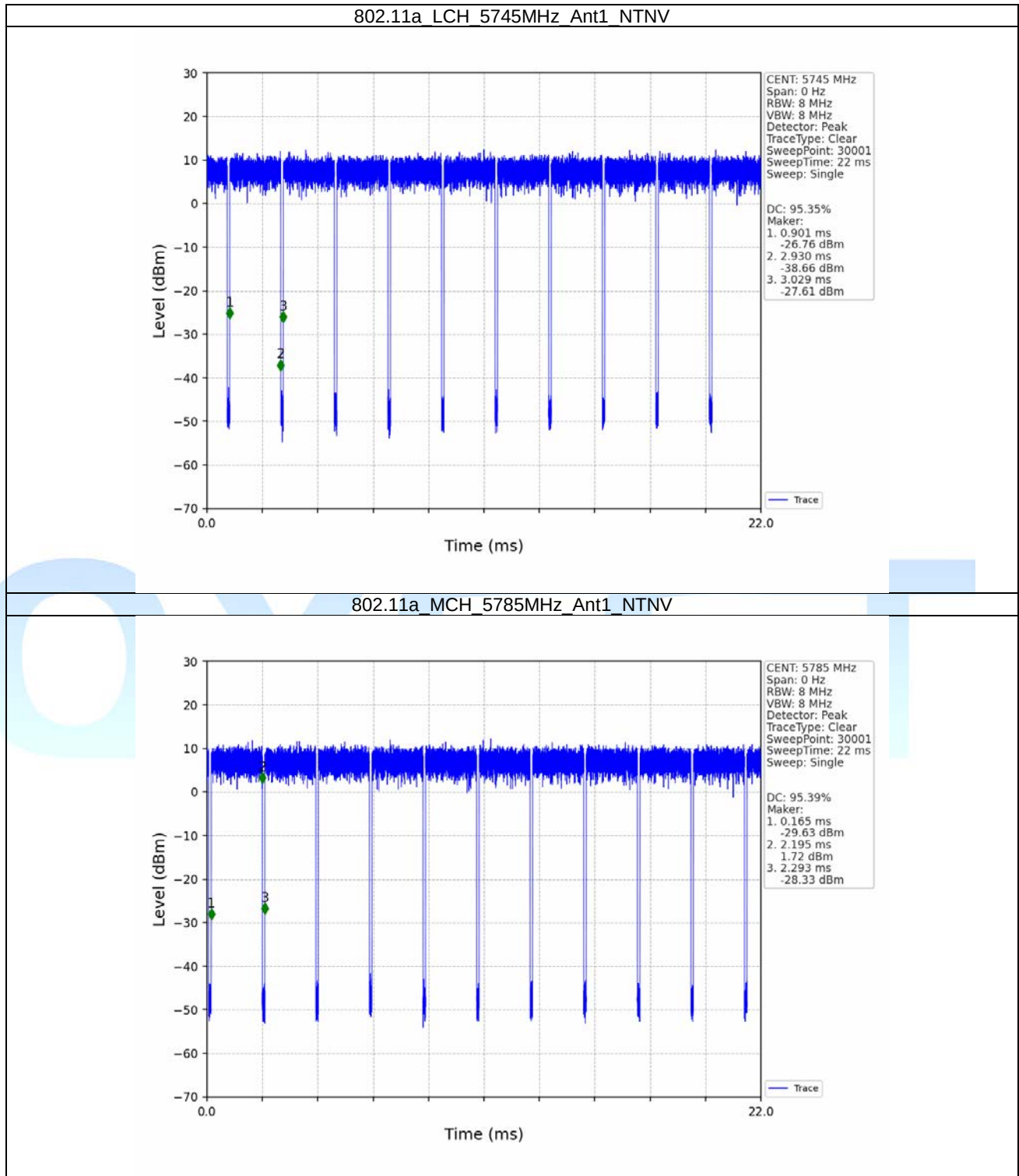
1.1 Test Result

1.1.1 Ant1

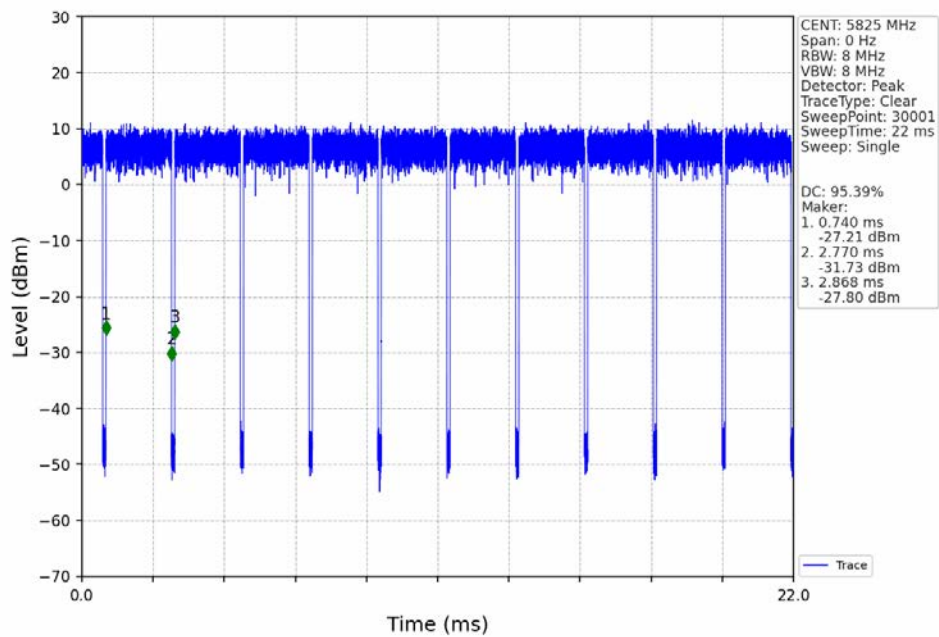
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5745	2.029	2.128	95.35	0.21	0.00
		5785	2.030	2.128	95.39	0.20	0.00
		5825	2.030	2.128	95.39	0.20	0.00
802.11n (HT20)	SISO	5745	1.890	1.998	94.59	0.24	0.22
		5785	1.890	1.993	94.83	0.23	0.25
		5825	1.890	1.992	94.88	0.23	0.22
802.11n (HT40)	SISO	5755	0.930	1.032	90.12	0.45	0.85
		5795	0.930	1.032	90.12	0.45	0.85
802.11ac (VHT20)	SISO	5745	1.902	2.005	94.86	0.23	0.25
		5785	1.902	2.011	94.58	0.24	0.24
		5825	1.902	2.005	94.86	0.23	0.25
802.11ac (VHT40)	SISO	5755	0.938	1.042	90.02	0.46	0.96
		5795	0.937	1.043	89.84	0.47	1.12
802.11ac (VHT80)	SISO	5775	0.458	0.556	82.37	0.84	0.82

1.2 Test Graph

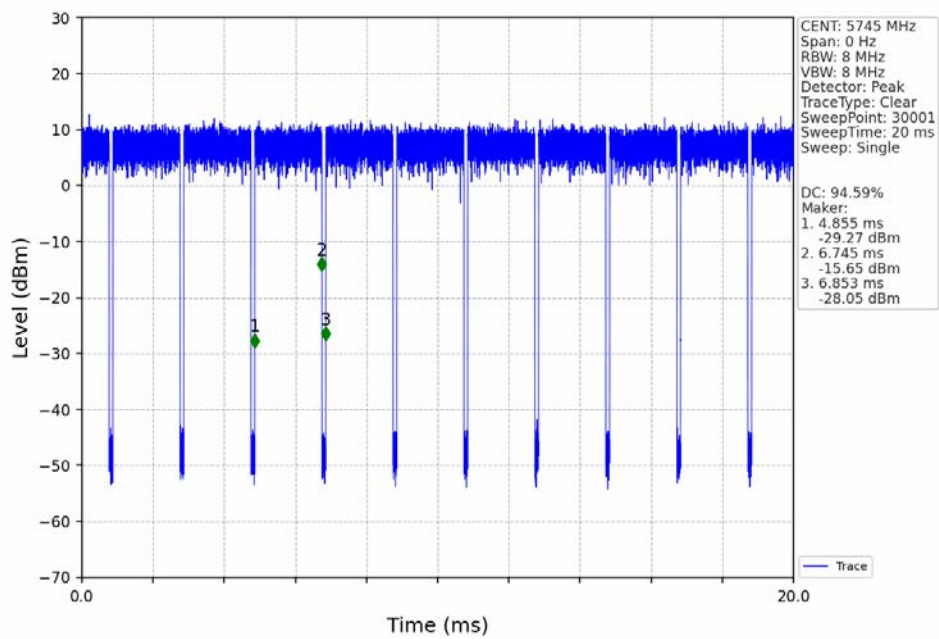
1.2.1 Ant1



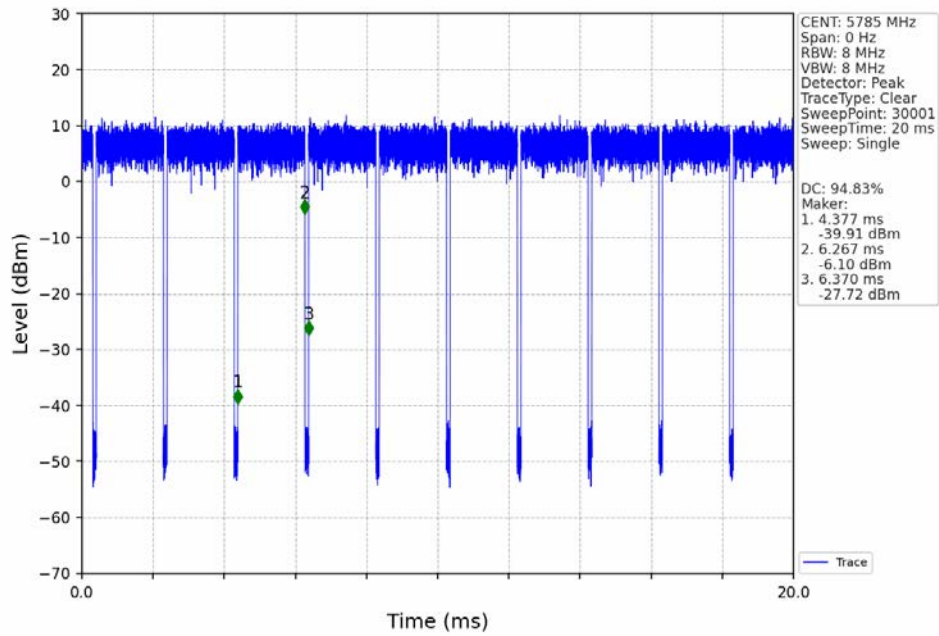
802.11a_HCH_5825MHz_Ant1_NTNV



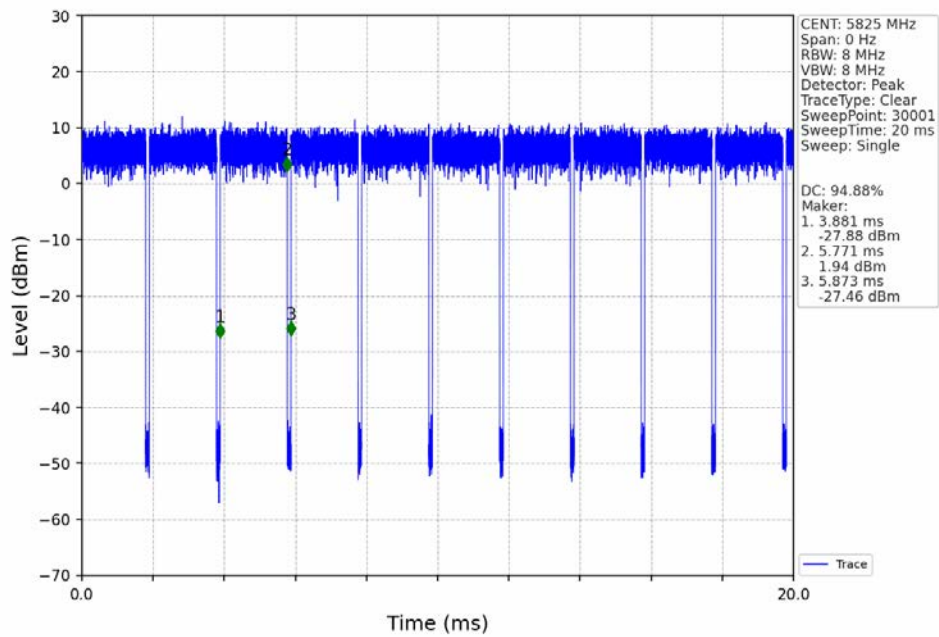
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



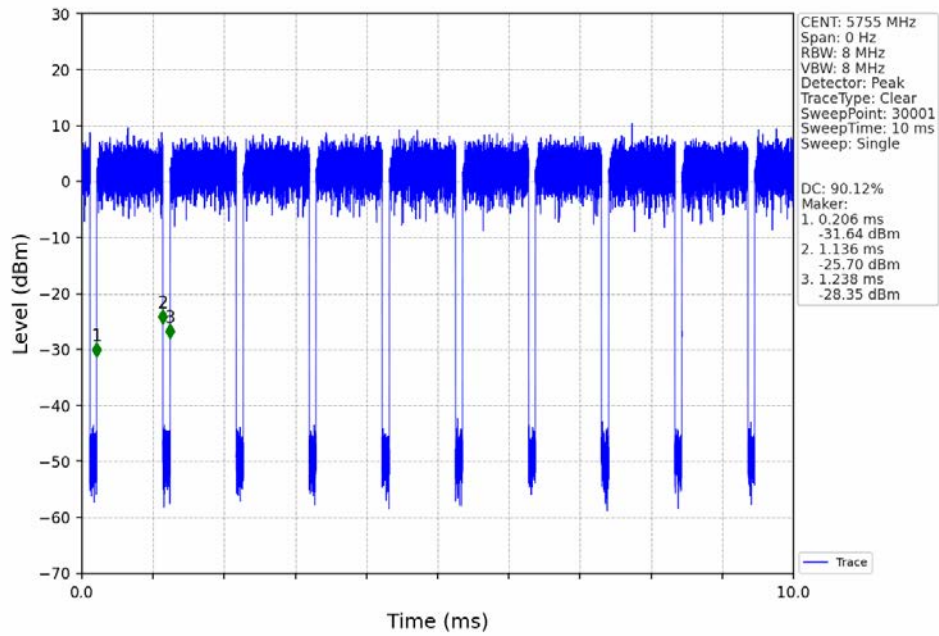
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



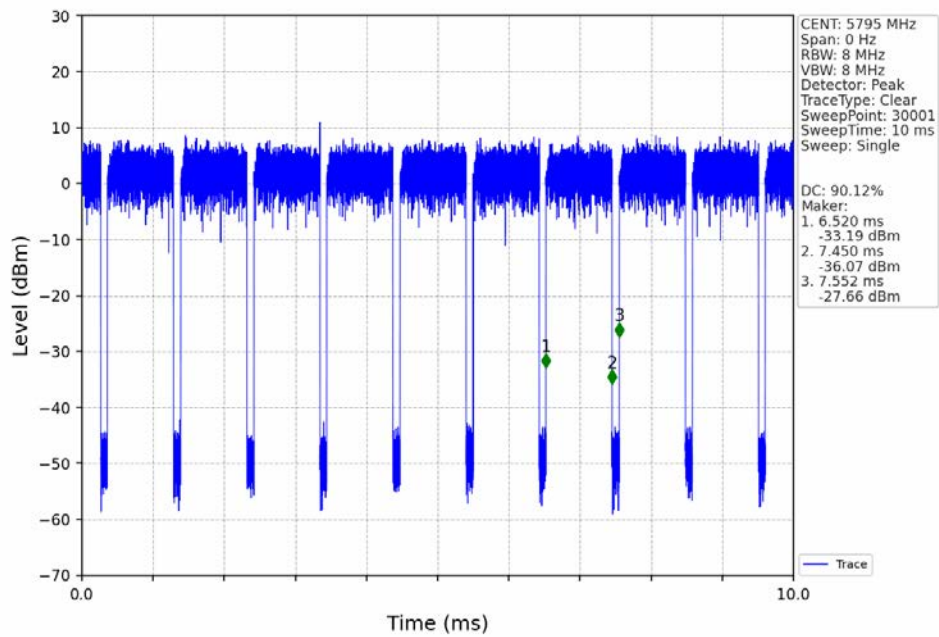
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



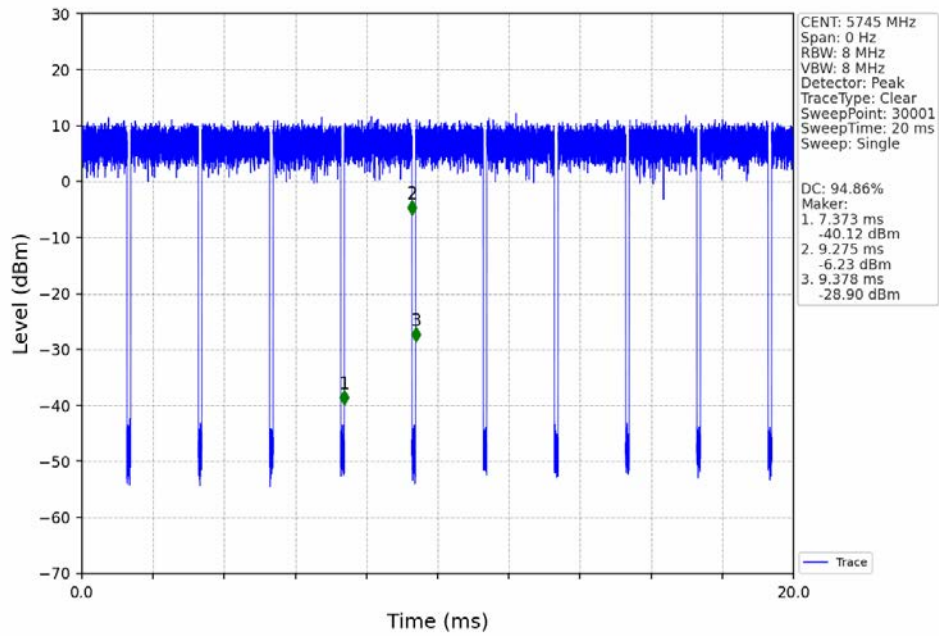
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



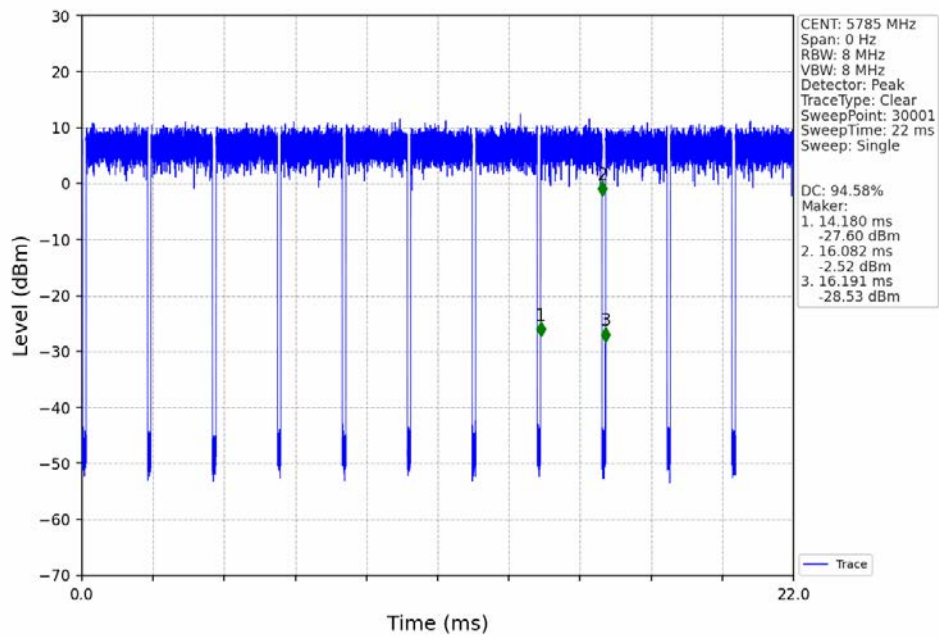
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



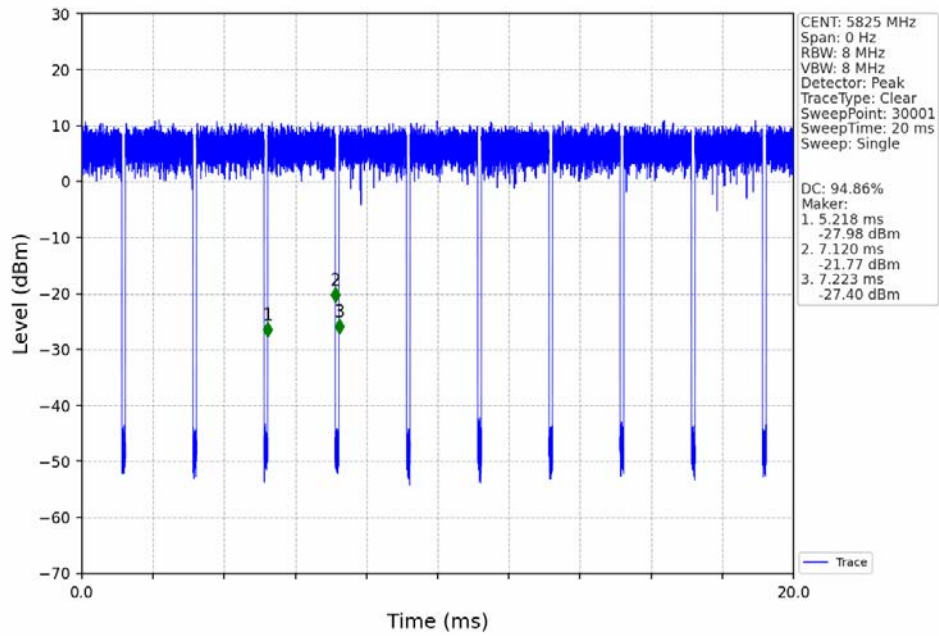
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



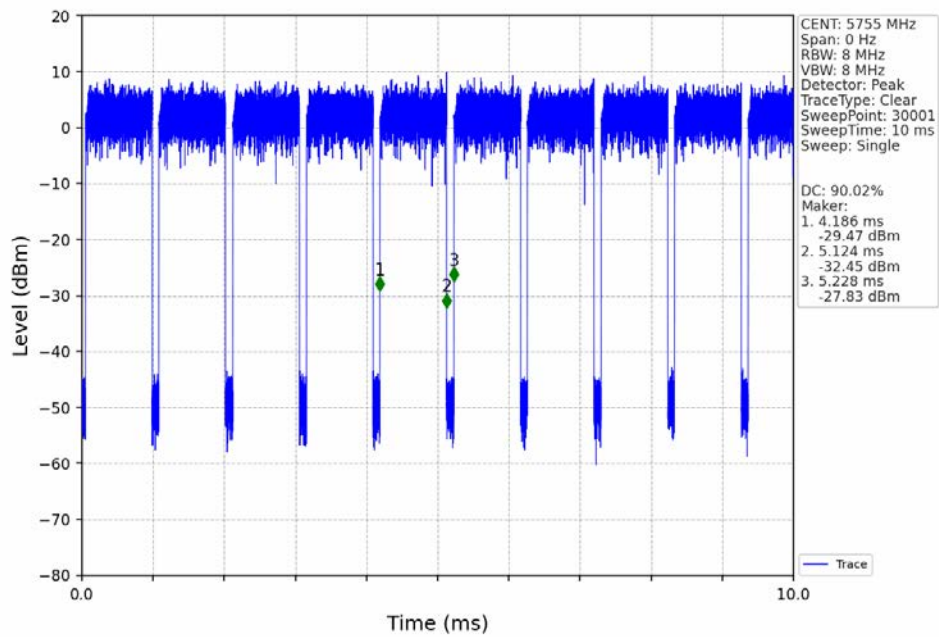
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



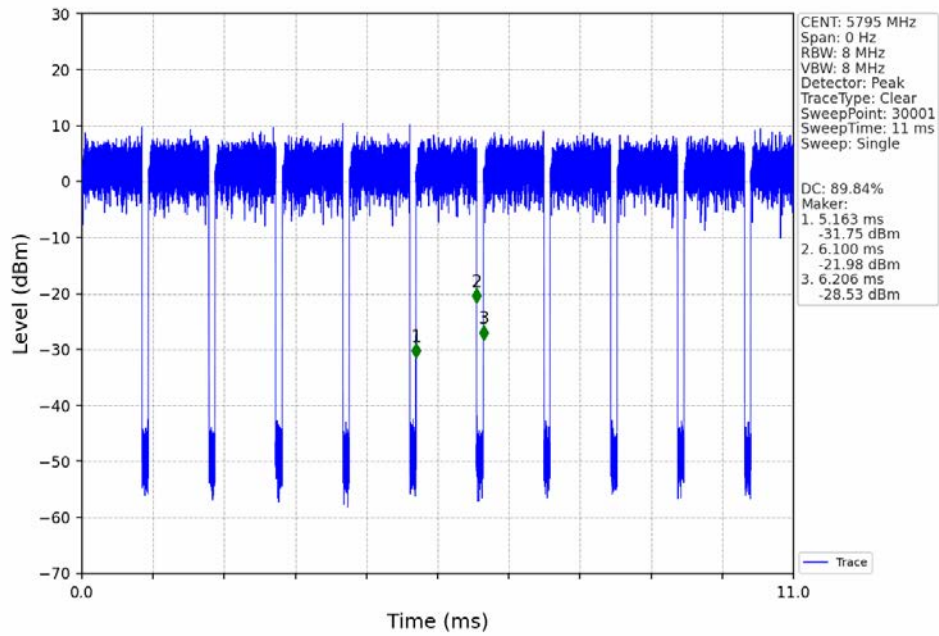
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



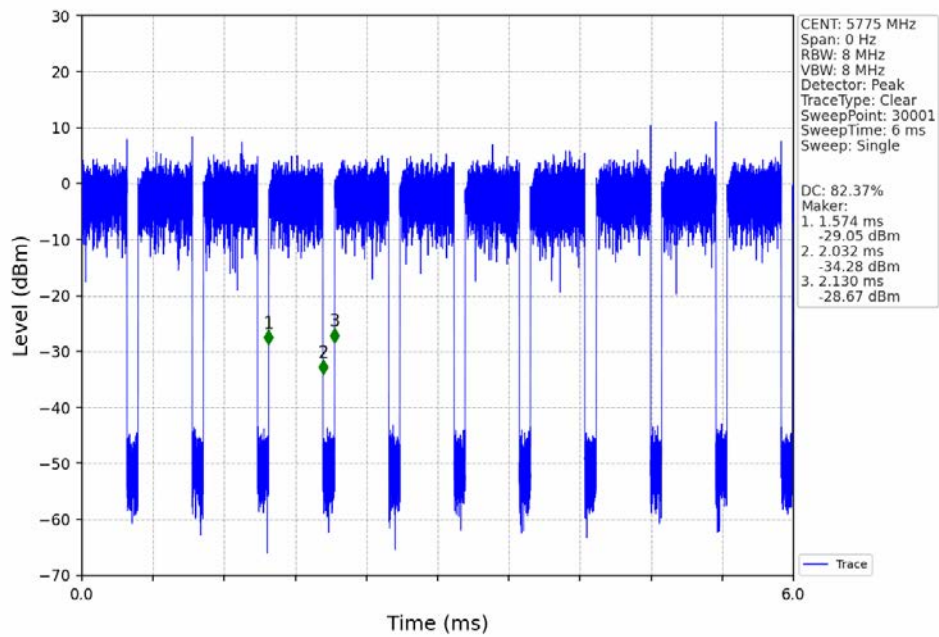
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



2. Bandwidth

2.1 Test Result

2.1.1 OBW

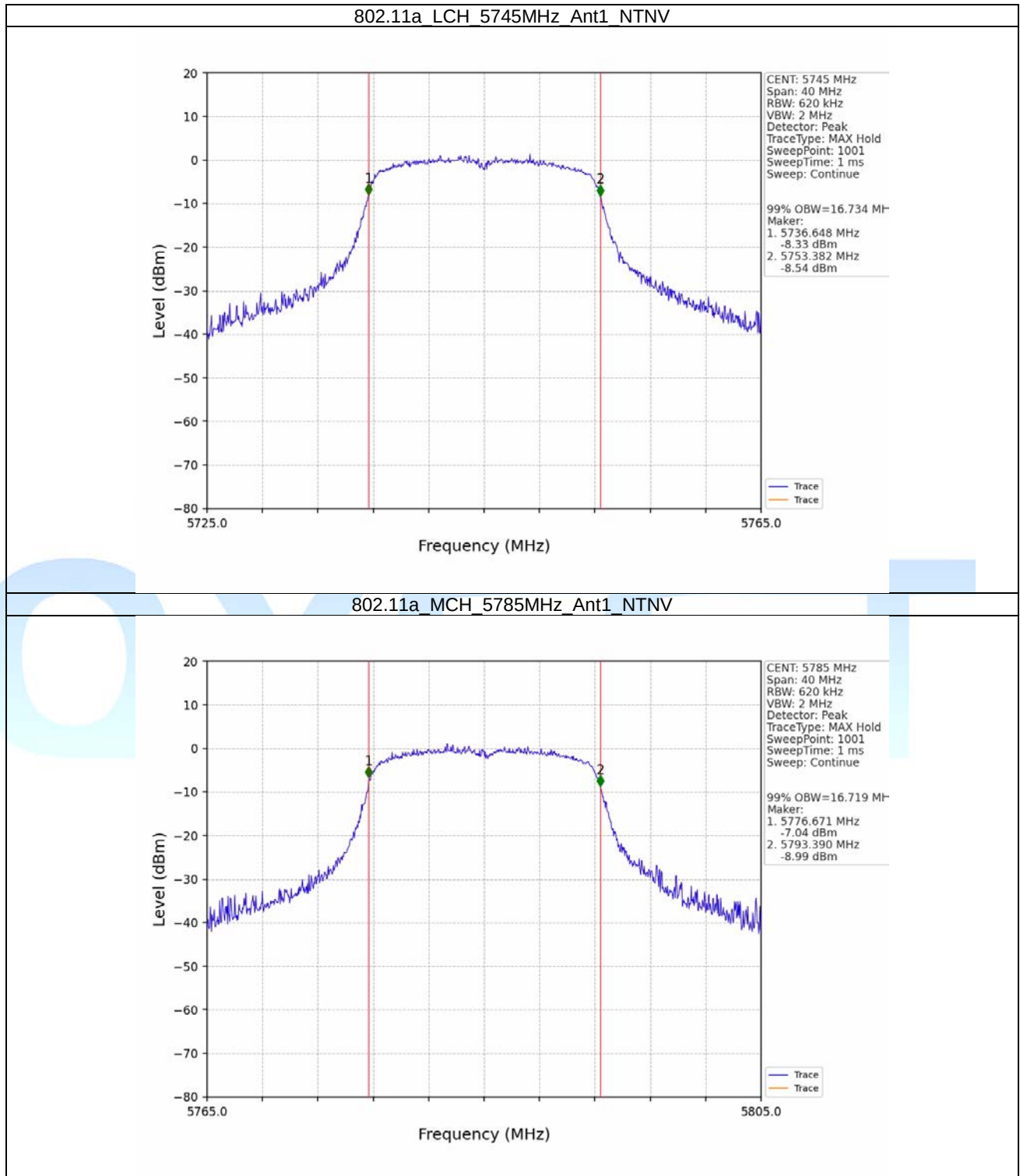
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	16.734	/	Pass
		5785	1	16.719	/	Pass
		5825	1	16.722	/	Pass
802.11n (HT20)	SISO	5745	1	17.755	/	Pass
		5785	1	17.733	/	Pass
		5825	1	17.755	/	Pass
802.11n (HT40)	SISO	5755	1	36.223	/	Pass
		5795	1	36.182	/	Pass
802.11ac (VHT20)	SISO	5745	1	17.742	/	Pass
		5785	1	17.768	/	Pass
		5825	1	17.777	/	Pass
802.11ac (VHT40)	SISO	5755	1	36.162	/	Pass
		5795	1	36.138	/	Pass
802.11ac (VHT80)	SISO	5775	1	75.581	/	Pass

2.1.2 6dB BW

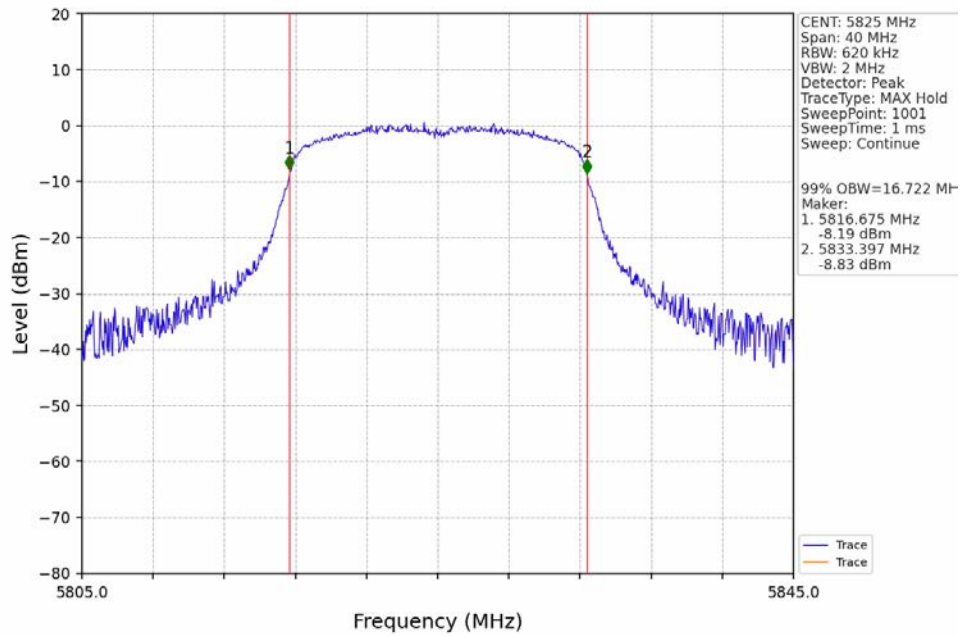
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	15.182	≥ 0.5	Pass
		5785	1	15.128	≥ 0.5	Pass
		5825	1	15.167	≥ 0.5	Pass
802.11n (HT20)	SISO	5745	1	15.114	≥ 0.5	Pass
		5785	1	14.989	≥ 0.5	Pass
		5825	1	15.178	≥ 0.5	Pass
802.11n (HT40)	SISO	5755	1	35.153	≥ 0.5	Pass
		5795	1	35.125	≥ 0.5	Pass
802.11ac (VHT20)	SISO	5745	1	15.186	≥ 0.5	Pass
		5785	1	15.170	≥ 0.5	Pass
		5825	1	15.130	≥ 0.5	Pass
802.11ac (VHT40)	SISO	5755	1	35.051	≥ 0.5	Pass
		5795	1	35.138	≥ 0.5	Pass
802.11ac (VHT80)	SISO	5775	1	75.110	≥ 0.5	Pass

2.2 Test Graph

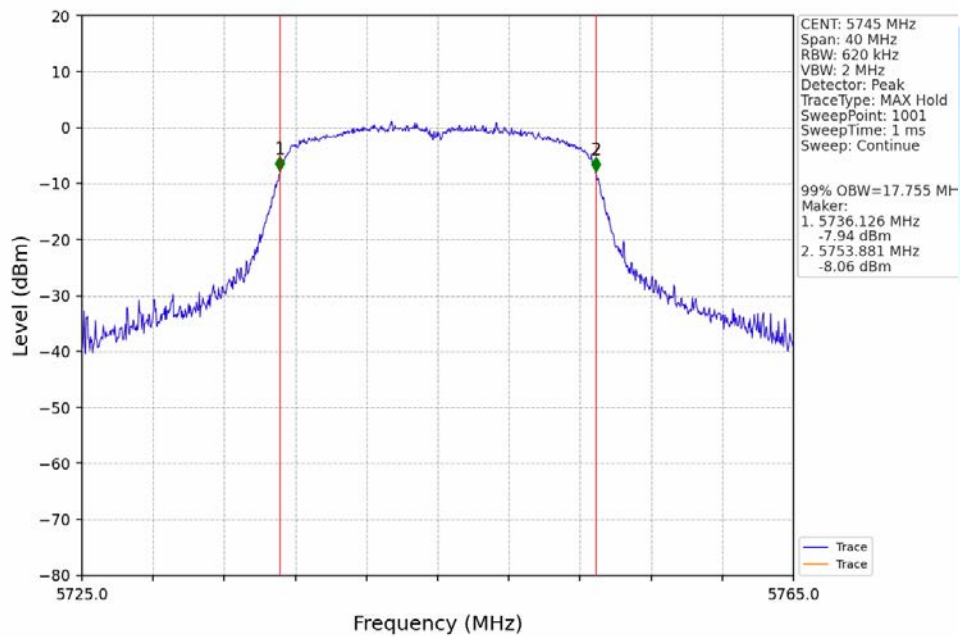
2.2.1 OBW



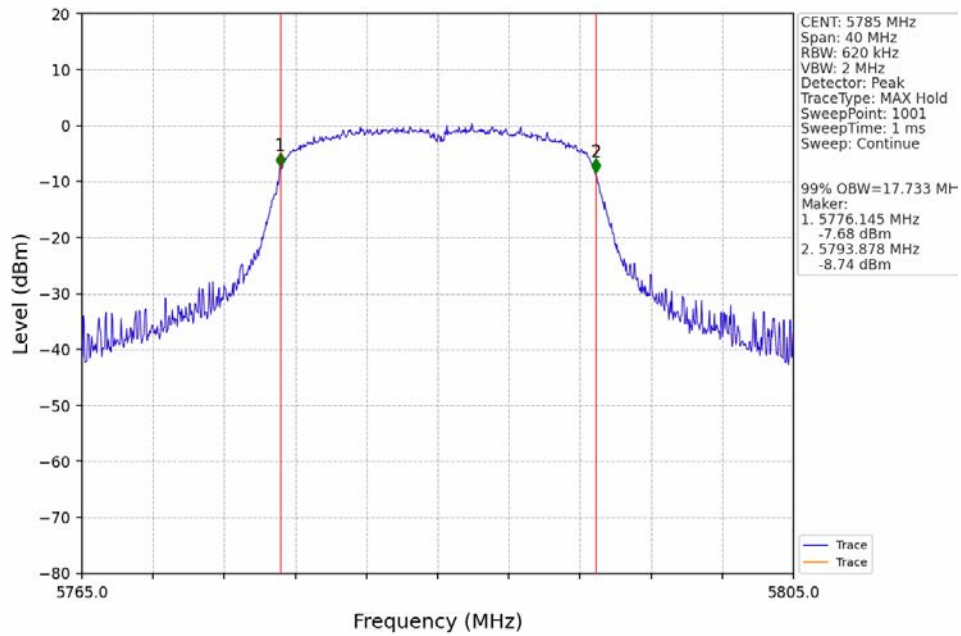
802.11a_HCH_5825MHz_Ant1_NTNV



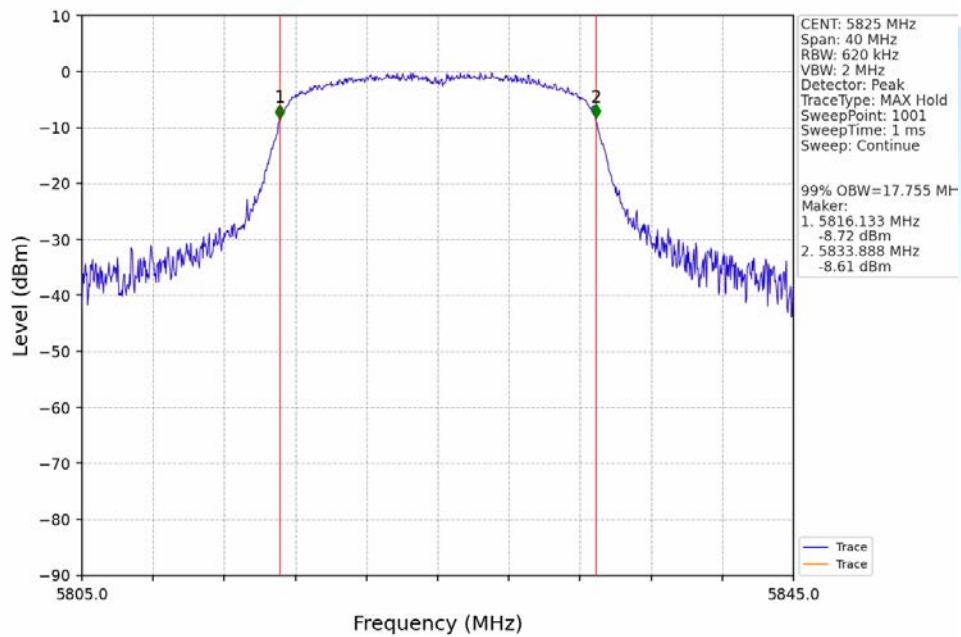
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



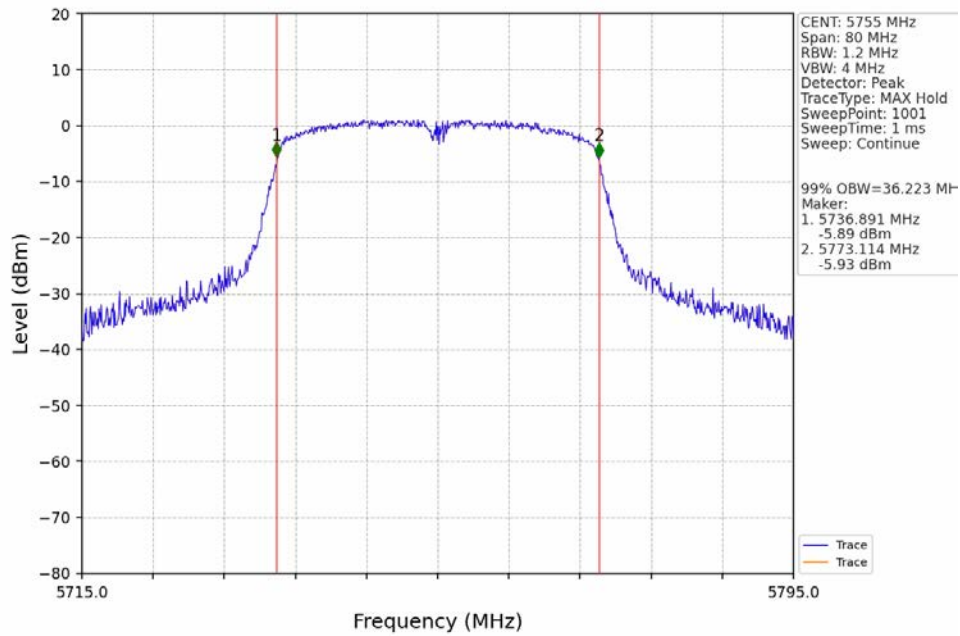
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



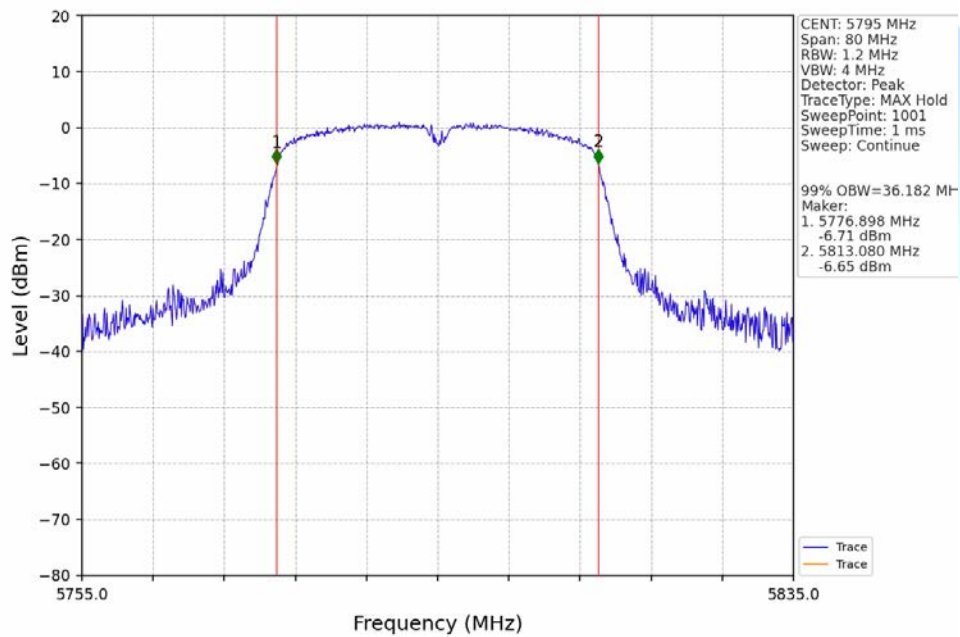
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



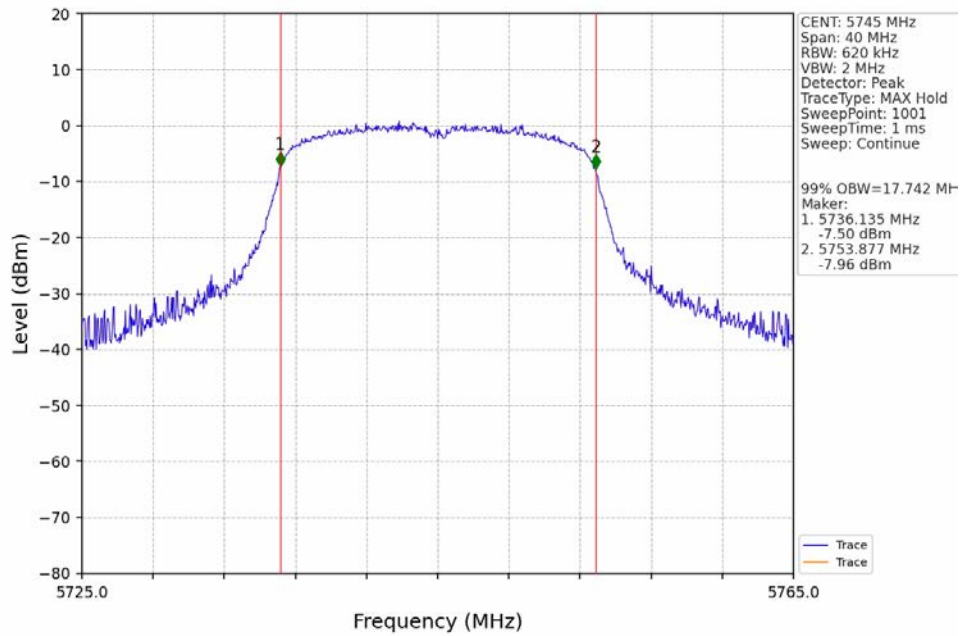
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



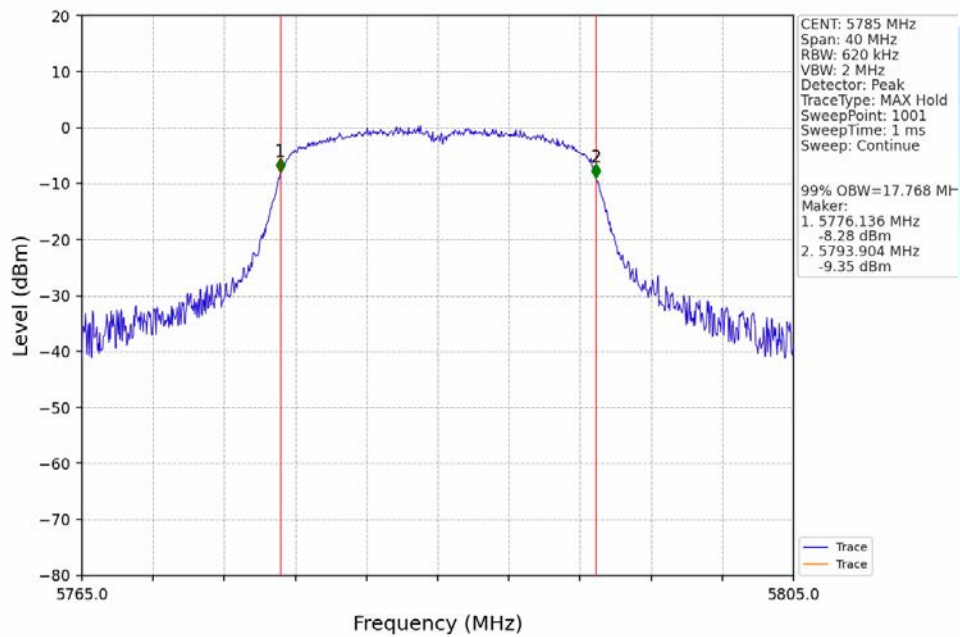
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



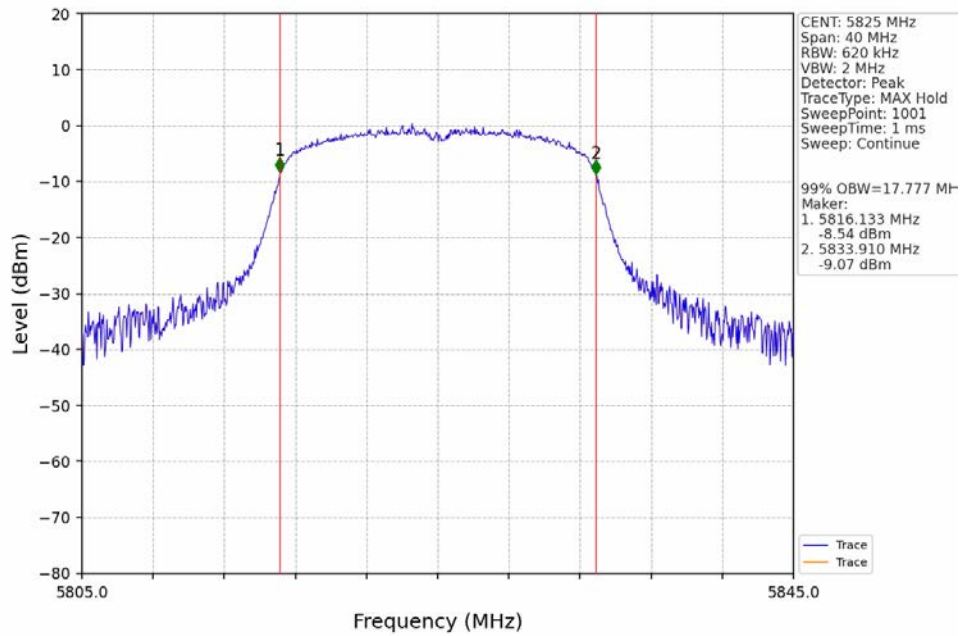
802.11ac(VHT20) LCH_5745MHz_Ant1_NTNV



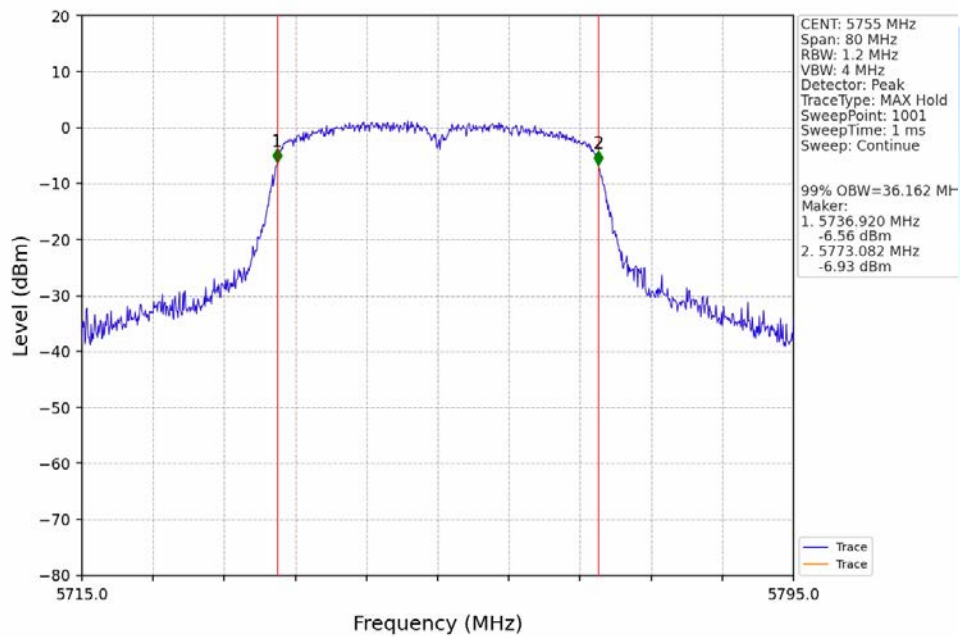
802.11ac(VHT20) MCH_5785MHz_Ant1_NTNV



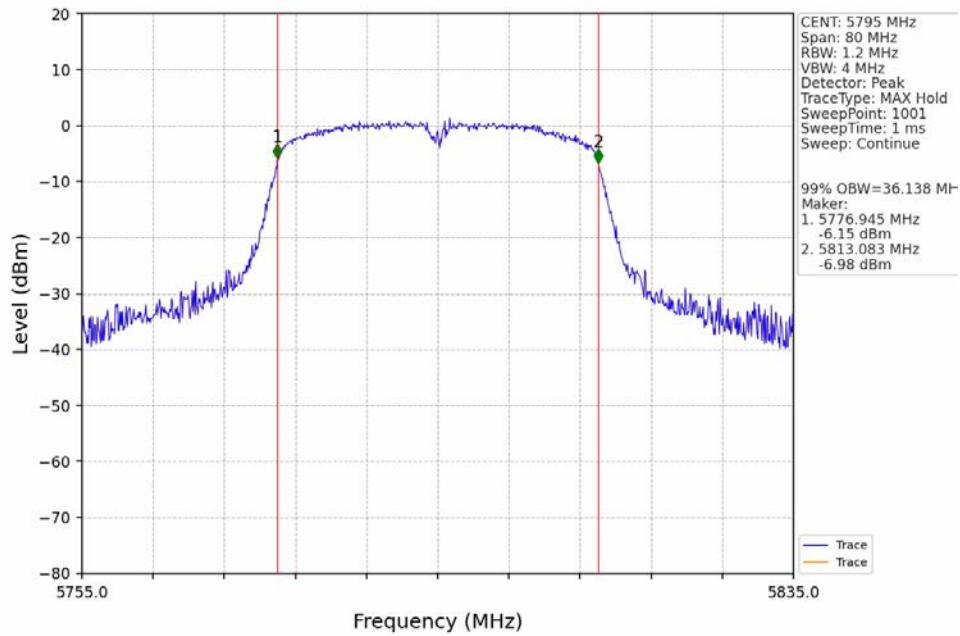
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



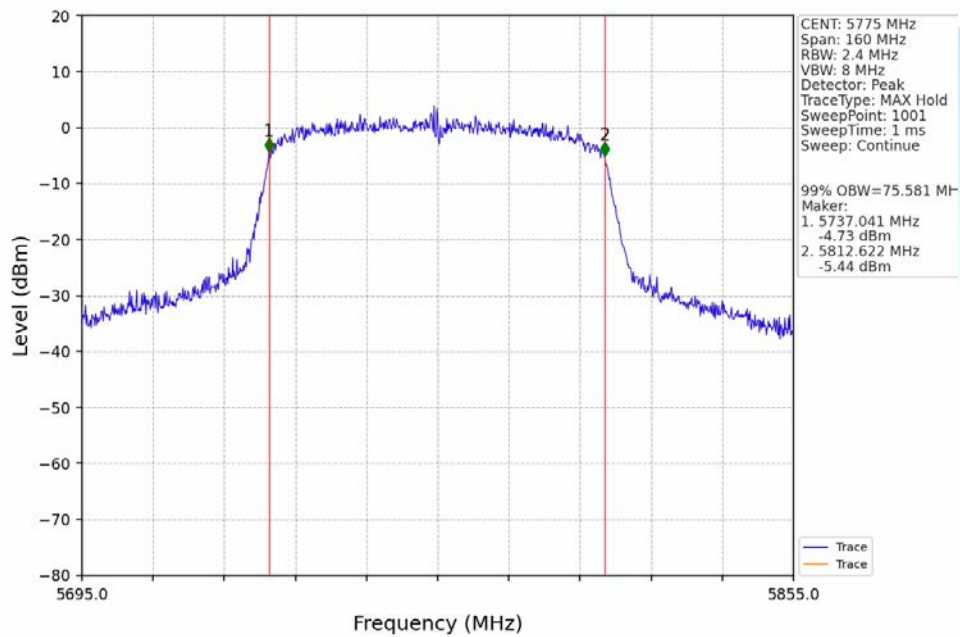
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



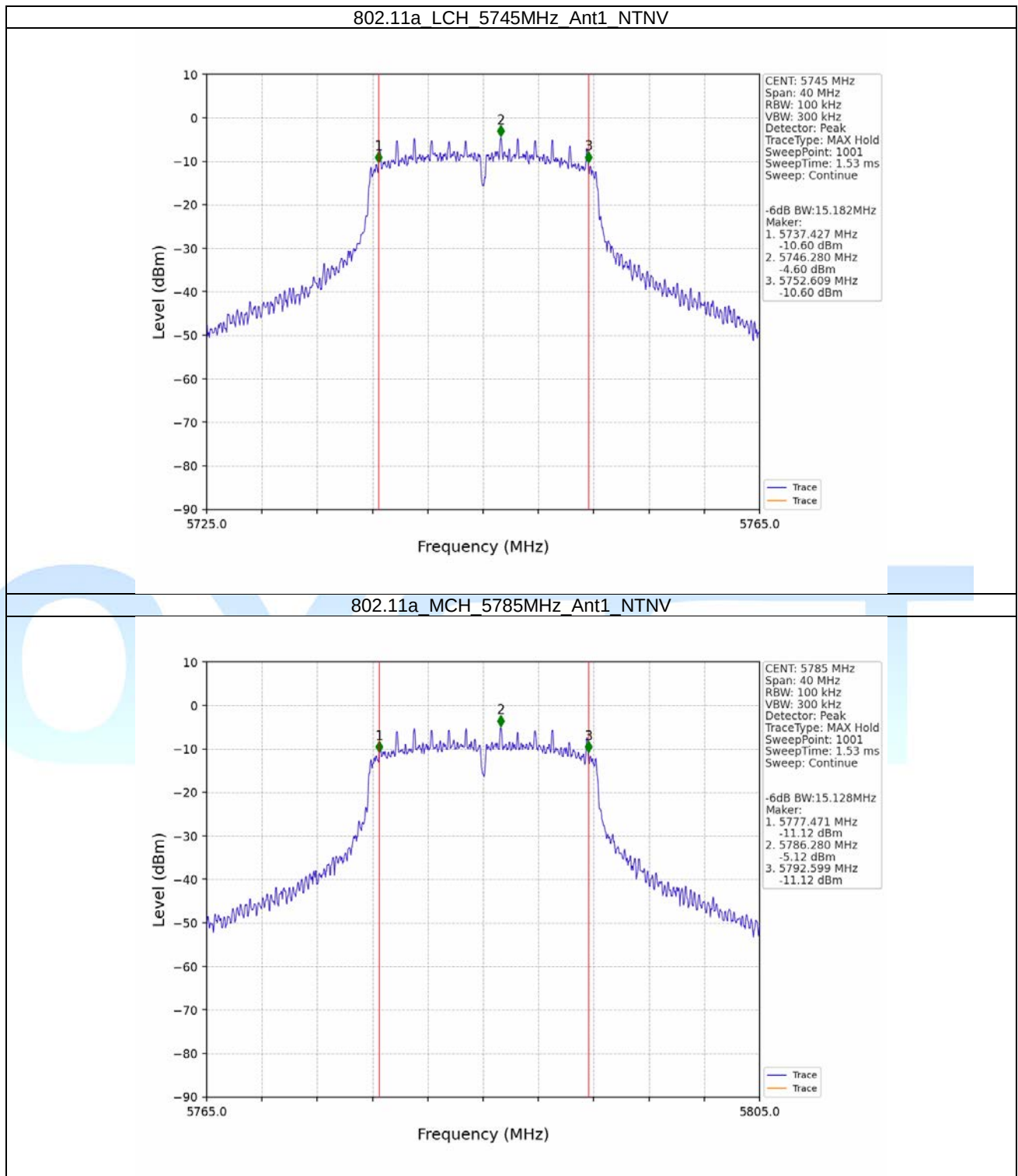
802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



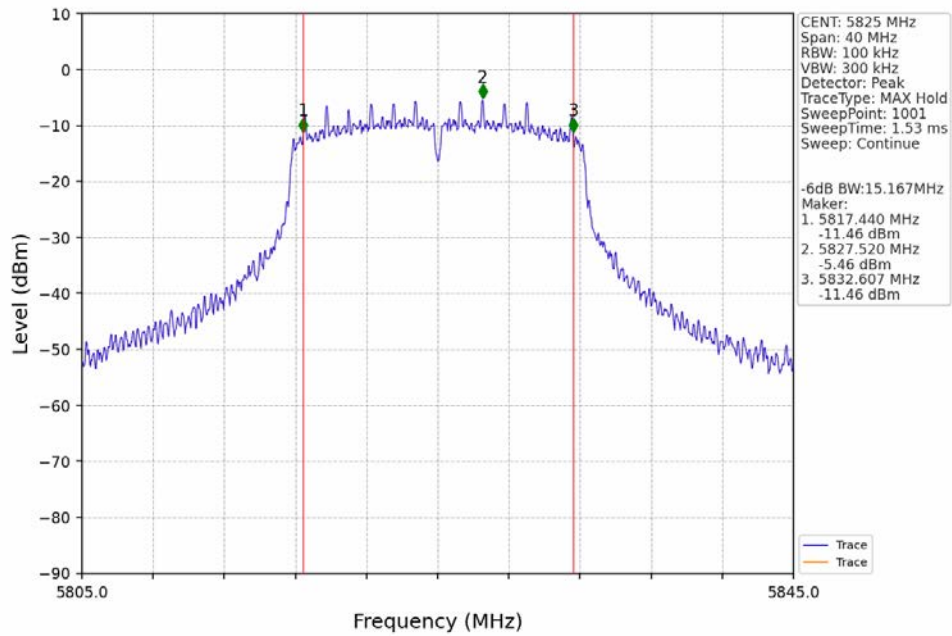
802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



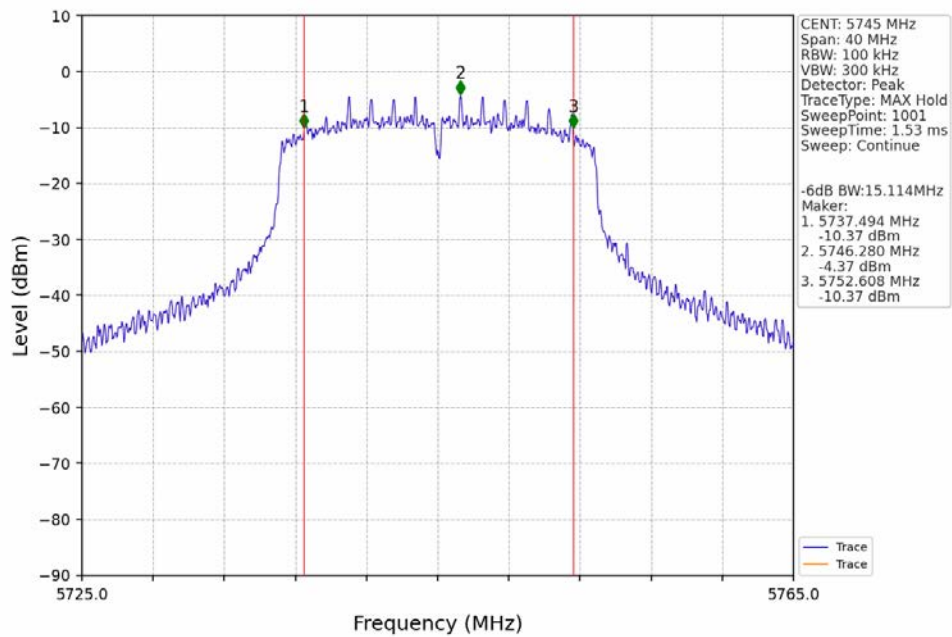
2.2.2 6dB BW



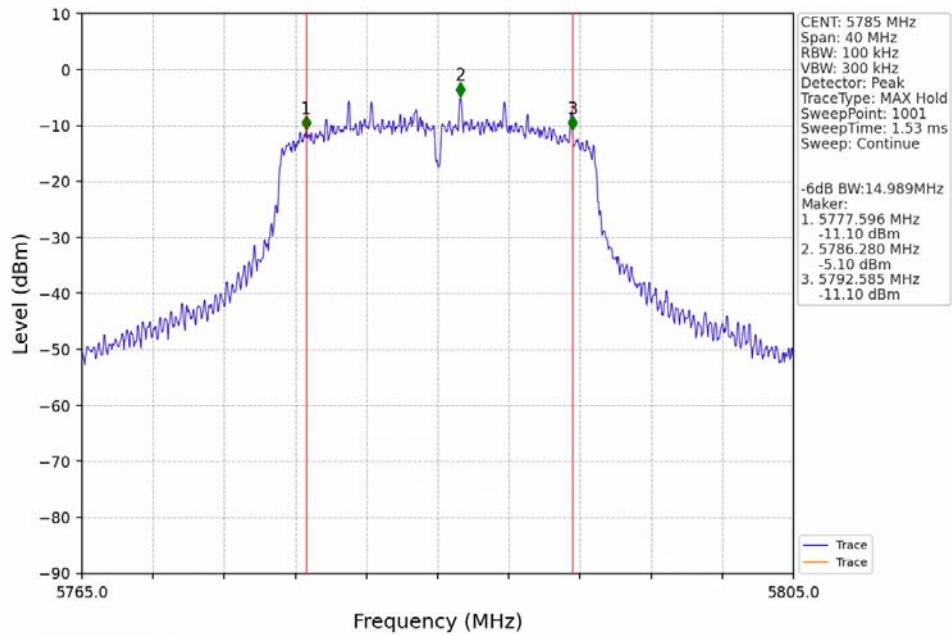
802.11a_HCH_5825MHz_Ant1_NTNV



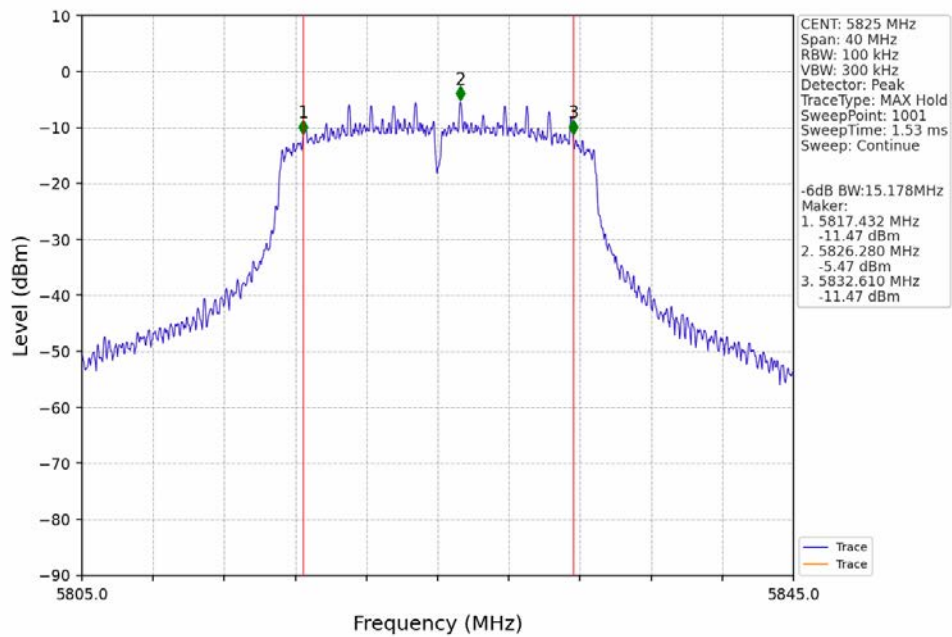
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



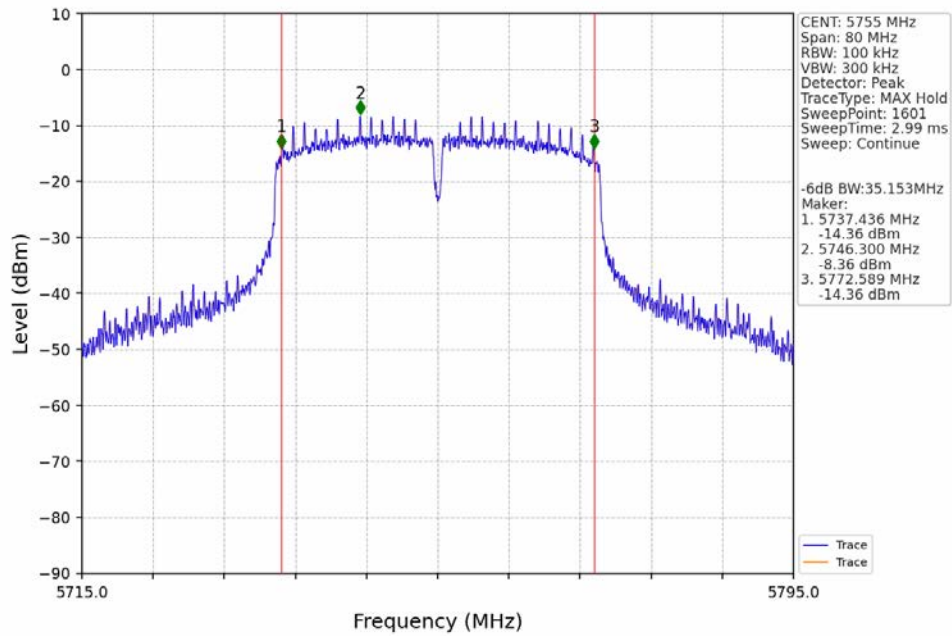
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



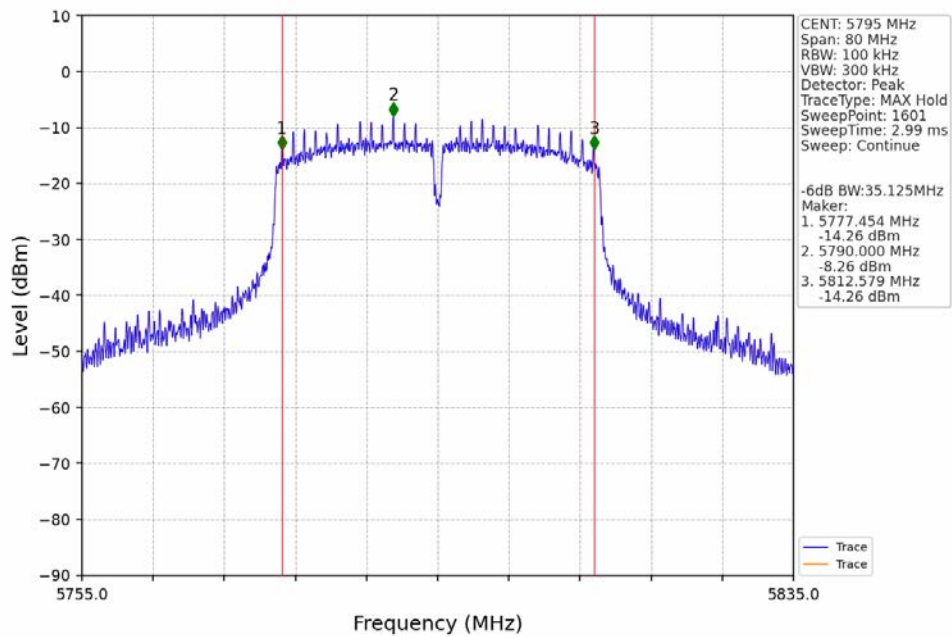
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



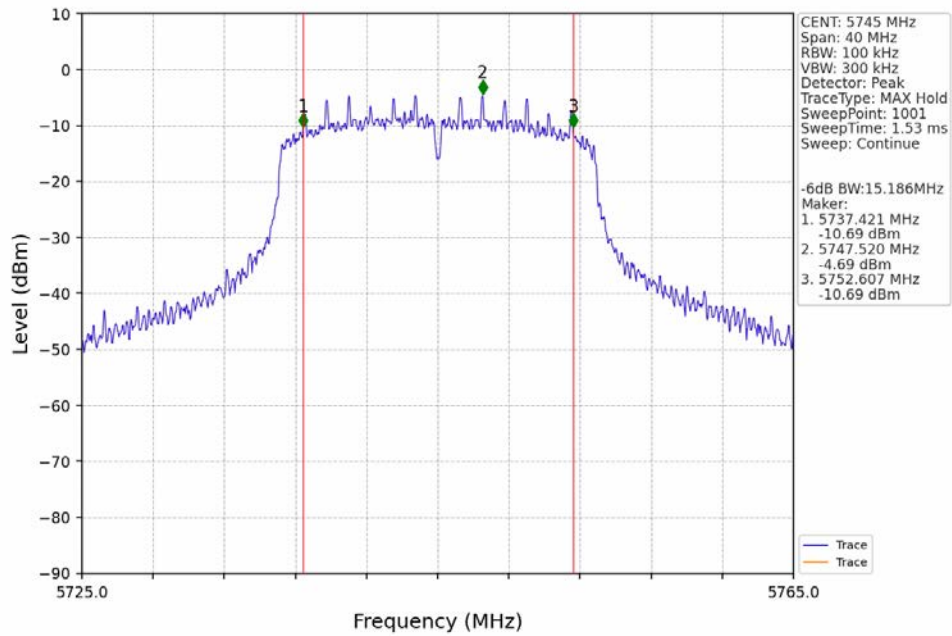
802.11n(HT40) LCH 5755MHz_Ant1_NTNV



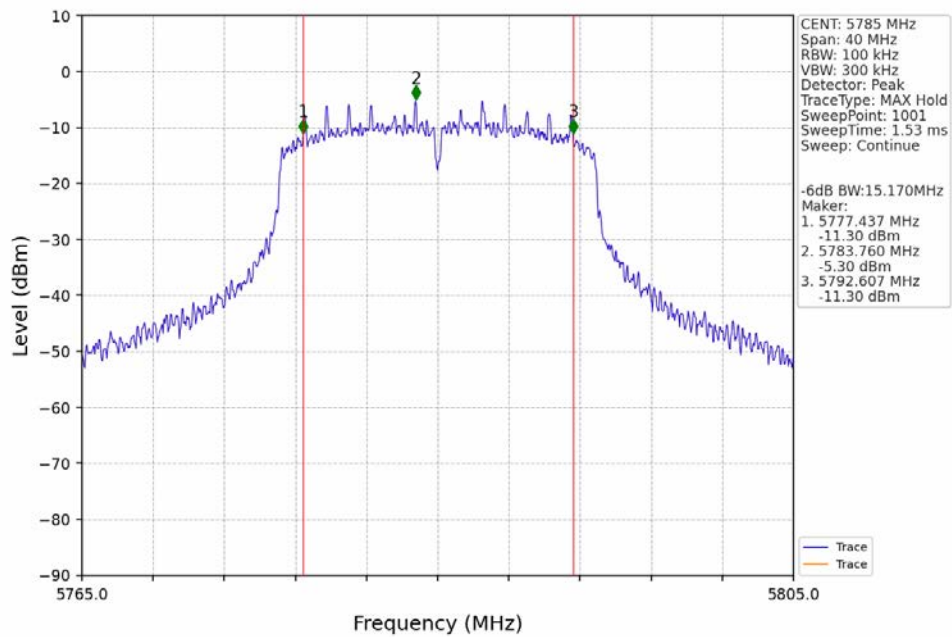
802.11n(HT40) HCH 5795MHz_Ant1_NTNV



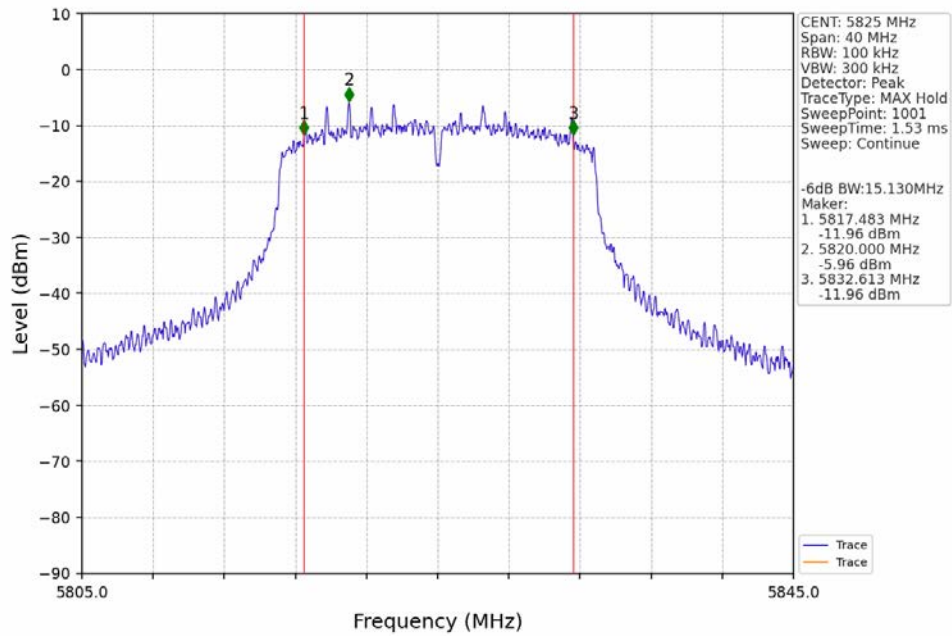
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



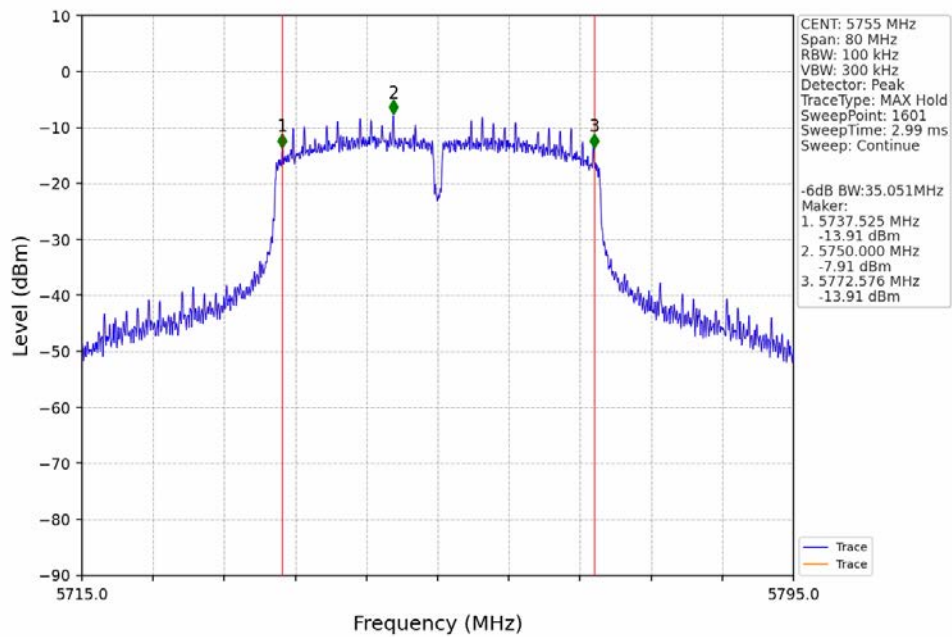
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



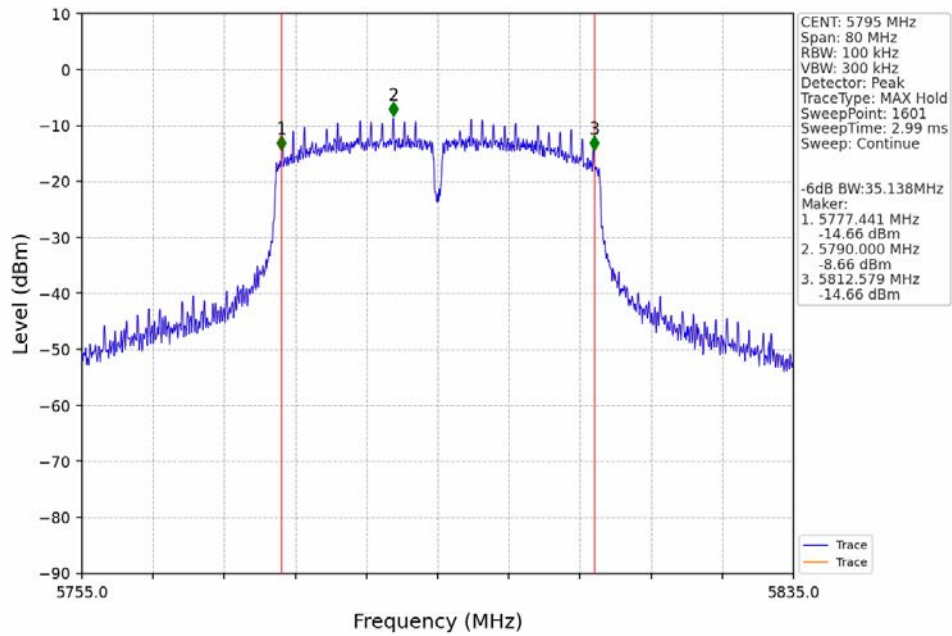
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



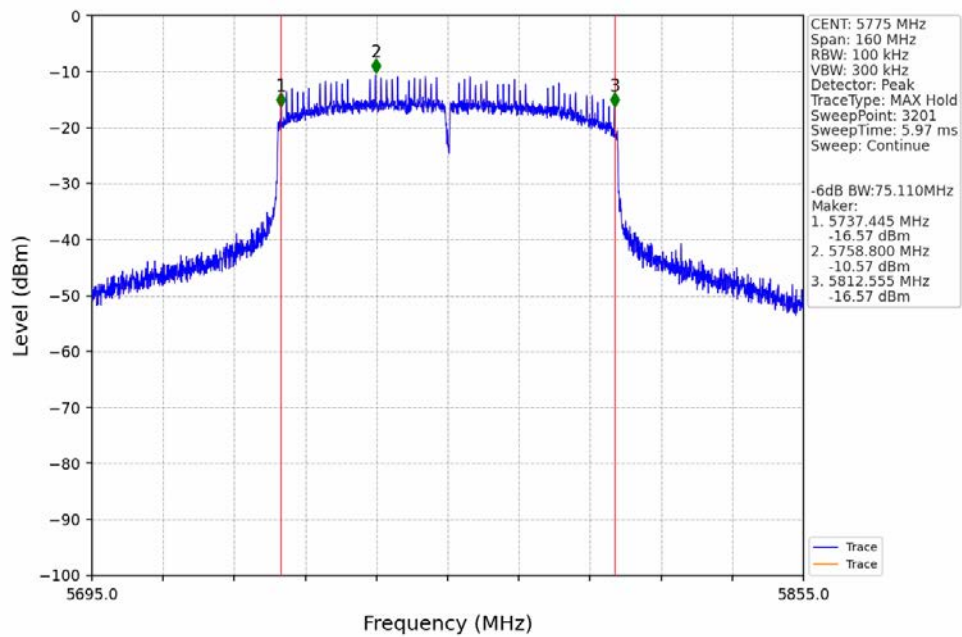
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11a	SISO	5745	5.70	<=30	Pass
		5785	5.19	<=30	Pass
		5825	4.75	<=30	Pass
802.11n (HT20)	SISO	5745	5.68	<=30	Pass
		5785	4.96	<=30	Pass
		5825	4.61	<=30	Pass
802.11n (HT40)	SISO	5755	5.33	<=30	Pass
		5795	4.86	<=30	Pass
802.11ac (VHT20)	SISO	5745	5.43	<=30	Pass
		5785	4.78	<=30	Pass
		5825	4.39	<=30	Pass
802.11ac (VHT40)	SISO	5755	5.25	<=30	Pass
		5795	4.83	<=30	Pass
802.11ac (VHT80)	SISO	5775	5.18	<=30	Pass

Note1: Antenna Gain: Ant1: 1.73dBi;

4. Maximum Power Spectral Density

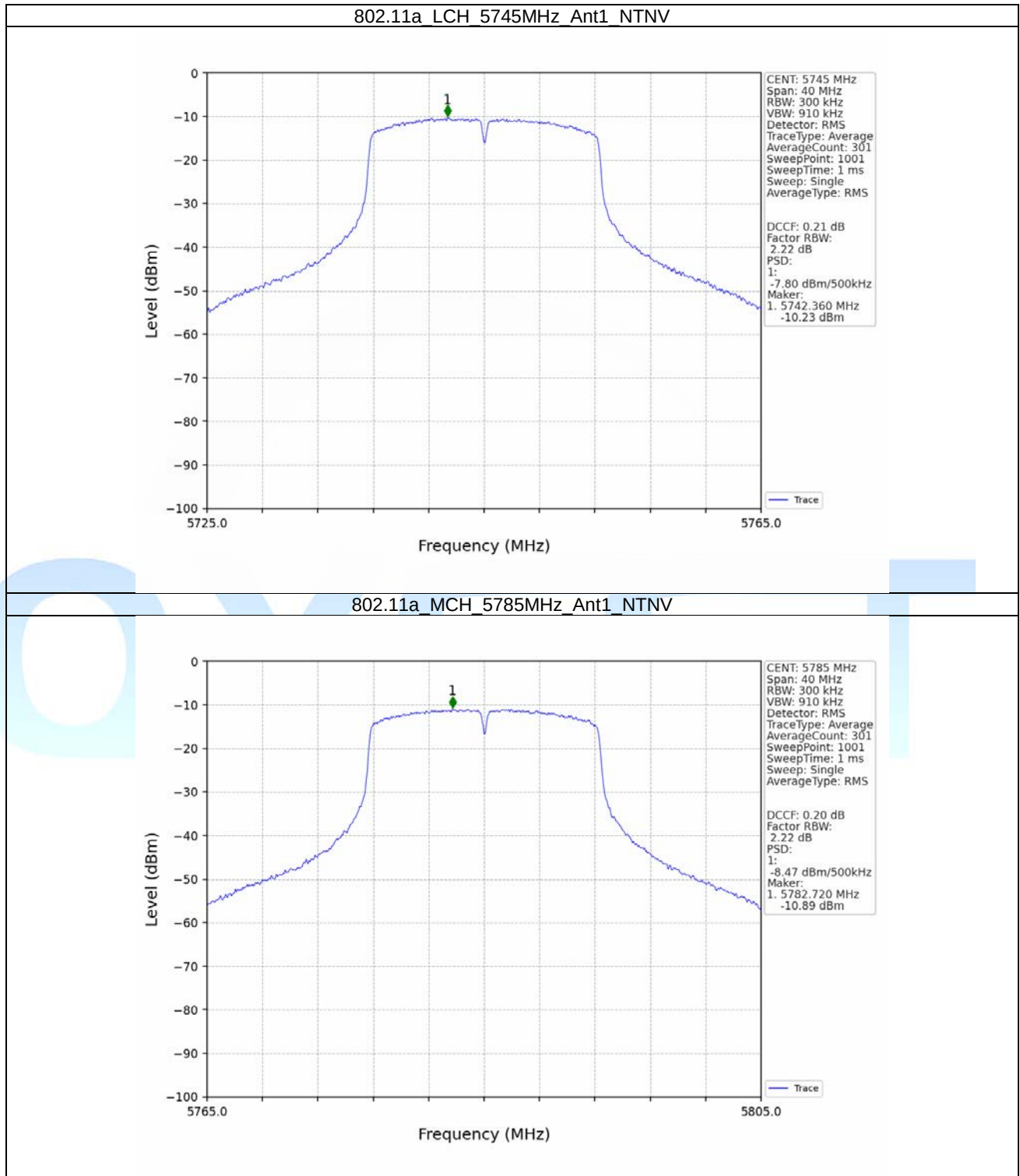
4.1 Test Result

4.1.1 PSD-Band3

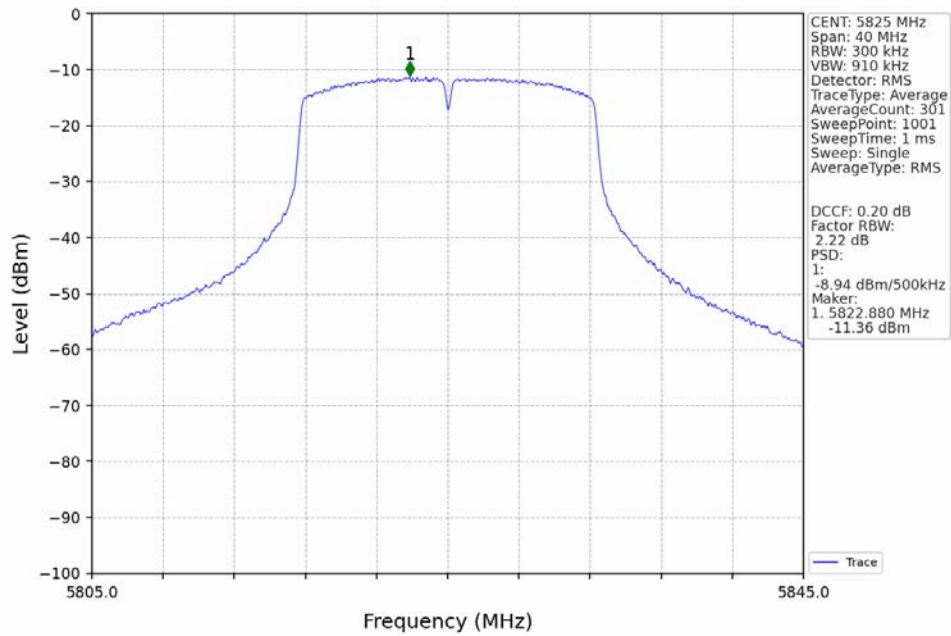
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5745	-7.80	<=30	Pass
		5785	-8.47	<=30	Pass
		5825	-8.94	<=30	Pass
802.11n (HT20)	SISO	5745	-8.12	<=30	Pass
		5785	-8.90	<=30	Pass
		5825	-9.20	<=30	Pass
802.11n (HT40)	SISO	5755	-11.76	<=30	Pass
		5795	-12.19	<=30	Pass
802.11ac (VHT20)	SISO	5745	-8.53	<=30	Pass
		5785	-9.01	<=30	Pass
		5825	-9.43	<=30	Pass
802.11ac (VHT40)	SISO	5755	-11.81	<=30	Pass
		5795	-12.09	<=30	Pass
802.11ac (VHT80)	SISO	5775	-14.79	<=30	Pass
Note1: Antenna Gain: Ant1: 1.73dBi; Note2: Test result contains DCCF and RBW Factor($10 \cdot \log(500\text{kHz}/300\text{kHz})=2.22$)					

4.2 Test Graph

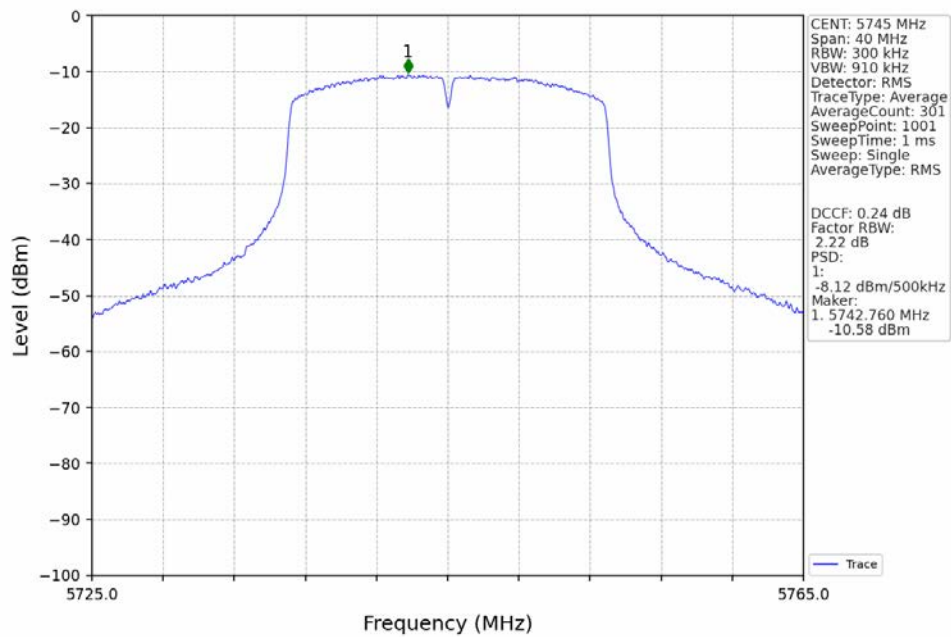
4.2.1 PSD-Band3



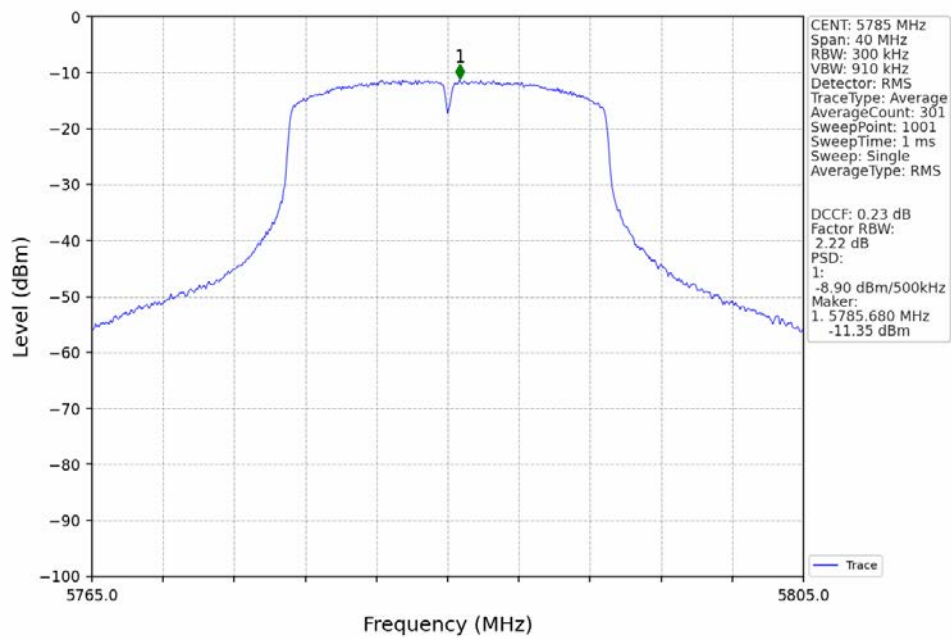
802.11a_HCH_5825MHz_Ant1_NTNV



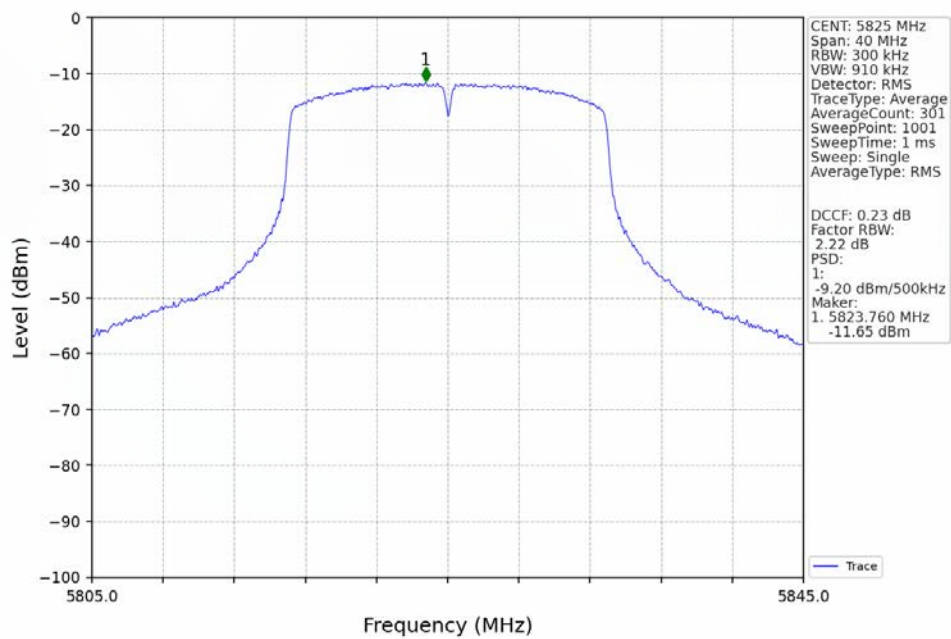
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



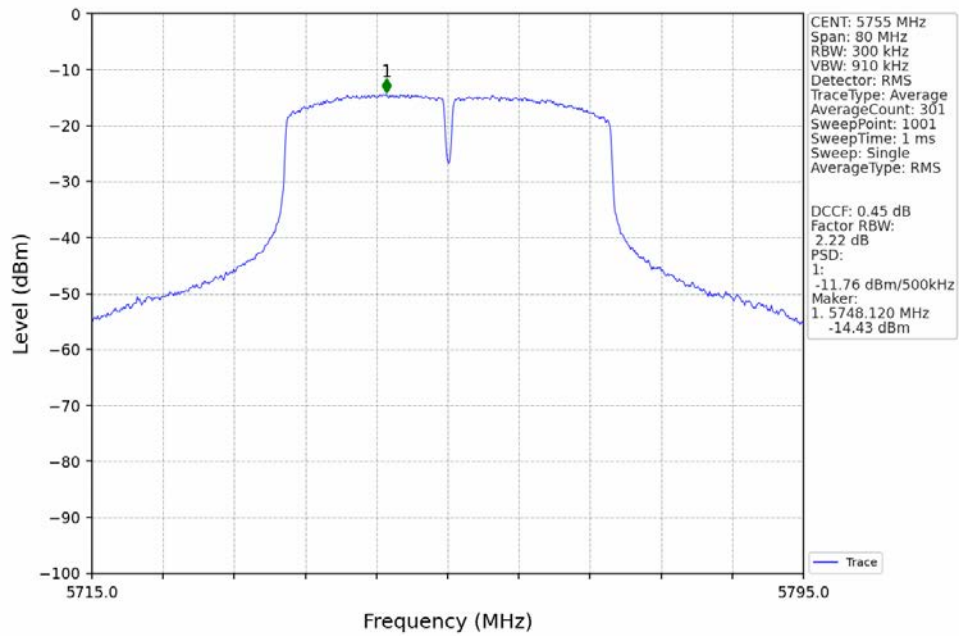
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



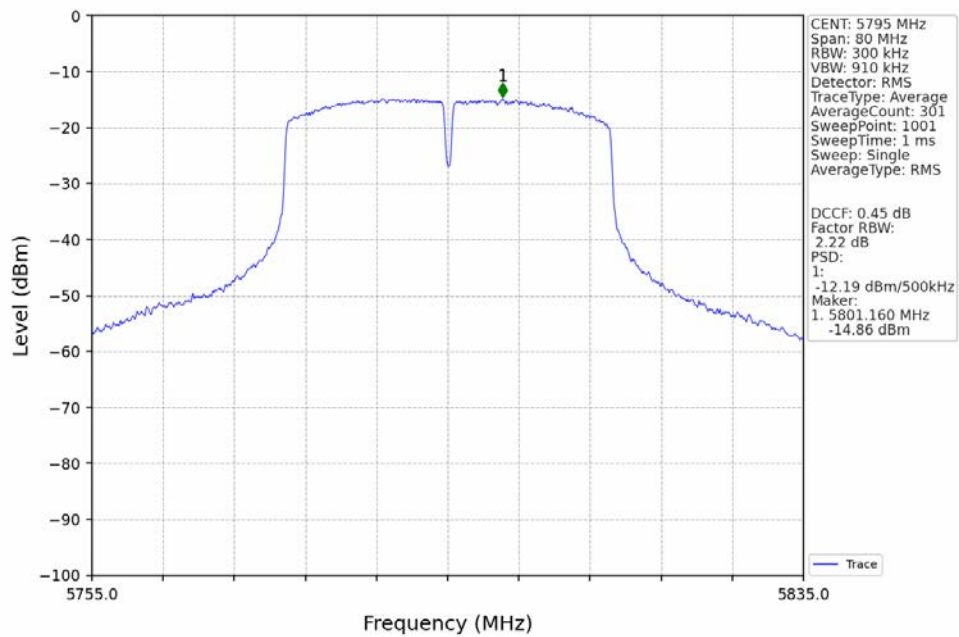
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



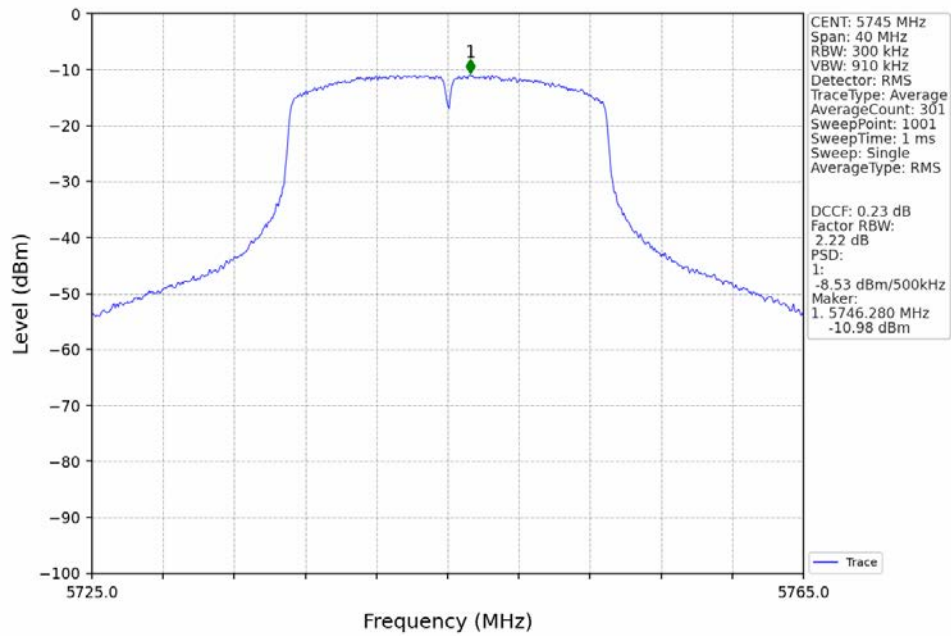
802.11n(HT40) LCH 5755MHz_Ant1_NTNV



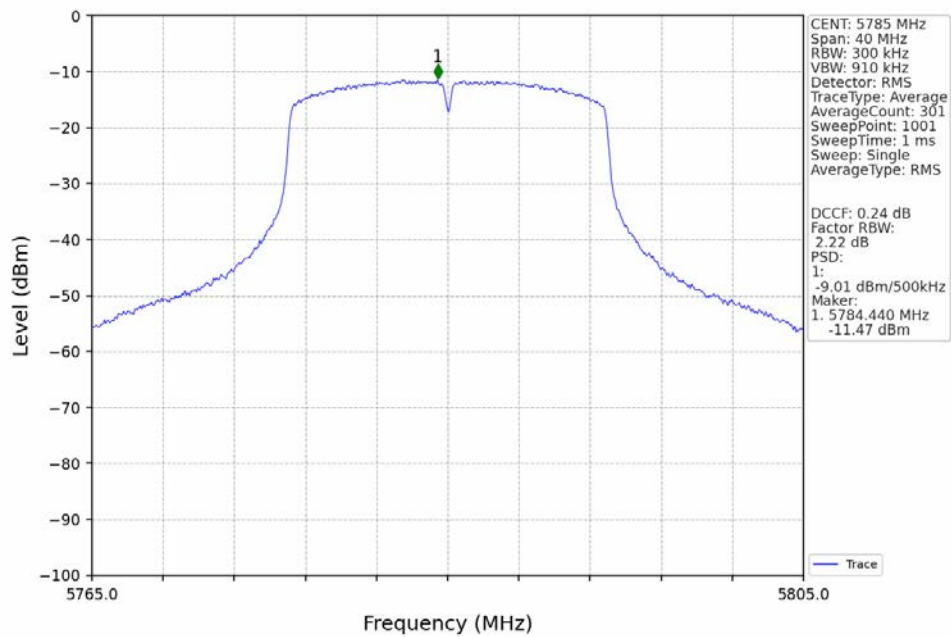
802.11n(HT40) HCH 5795MHz_Ant1_NTNV



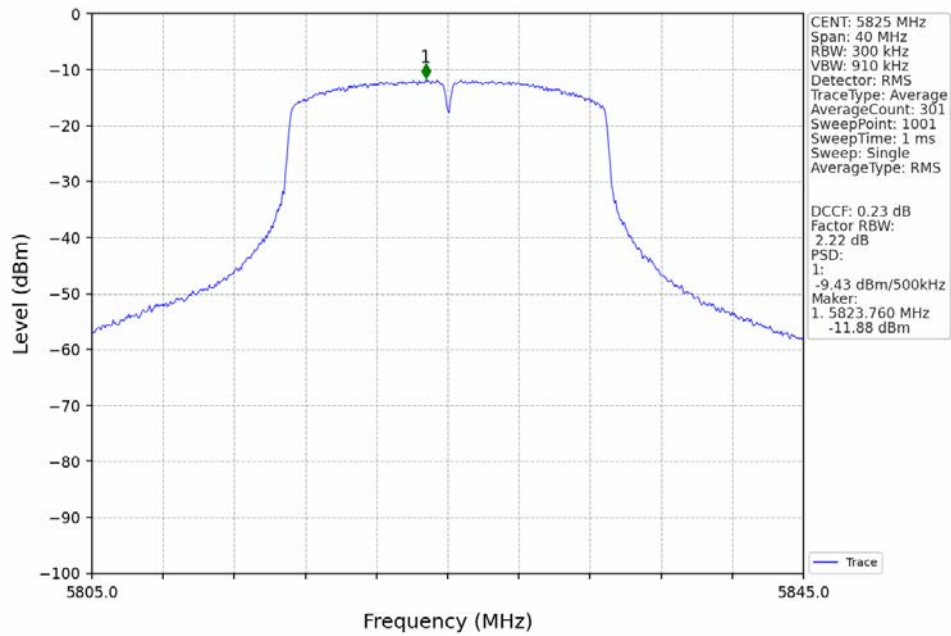
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



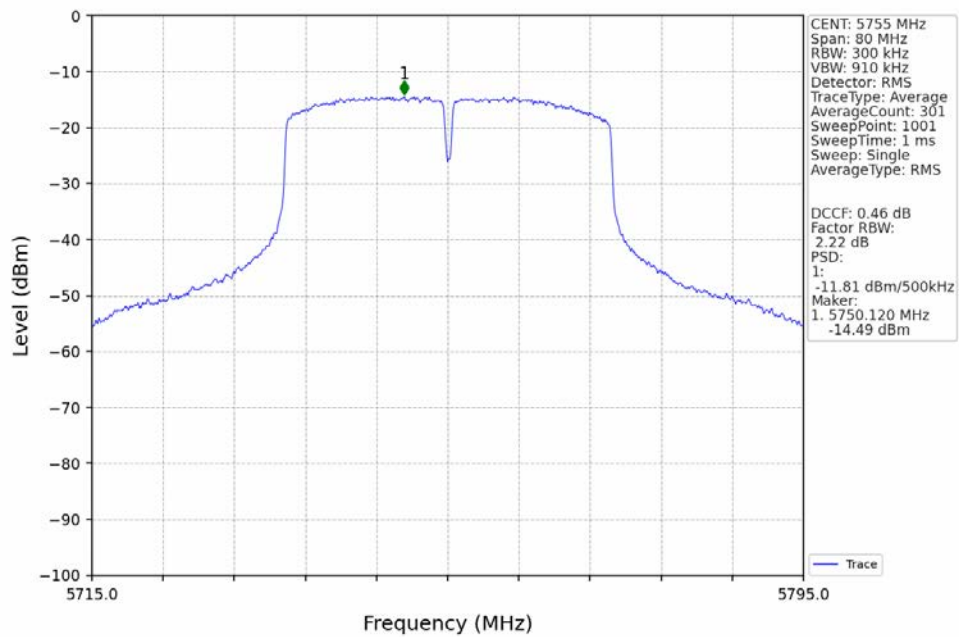
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



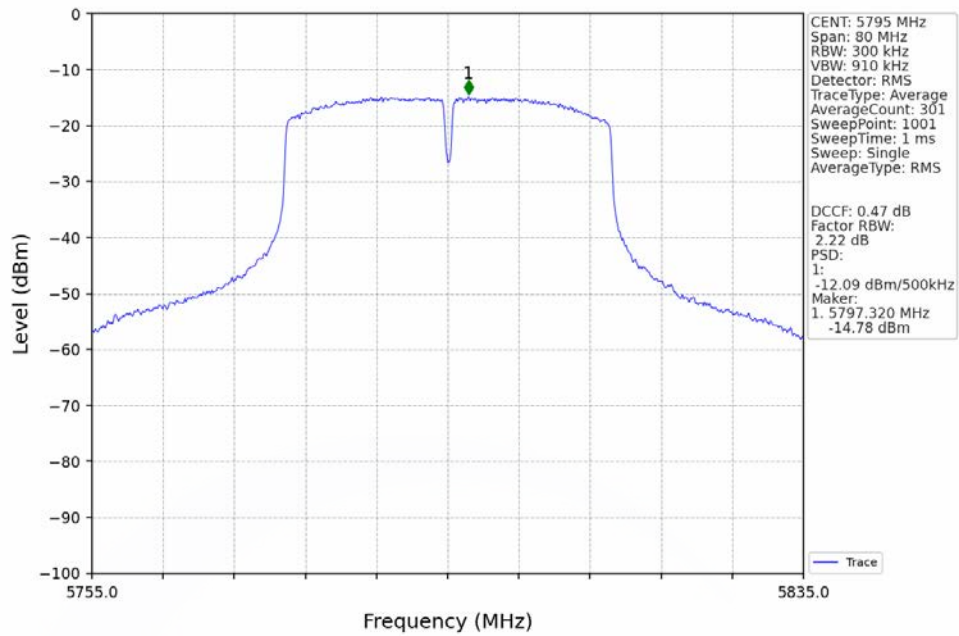
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



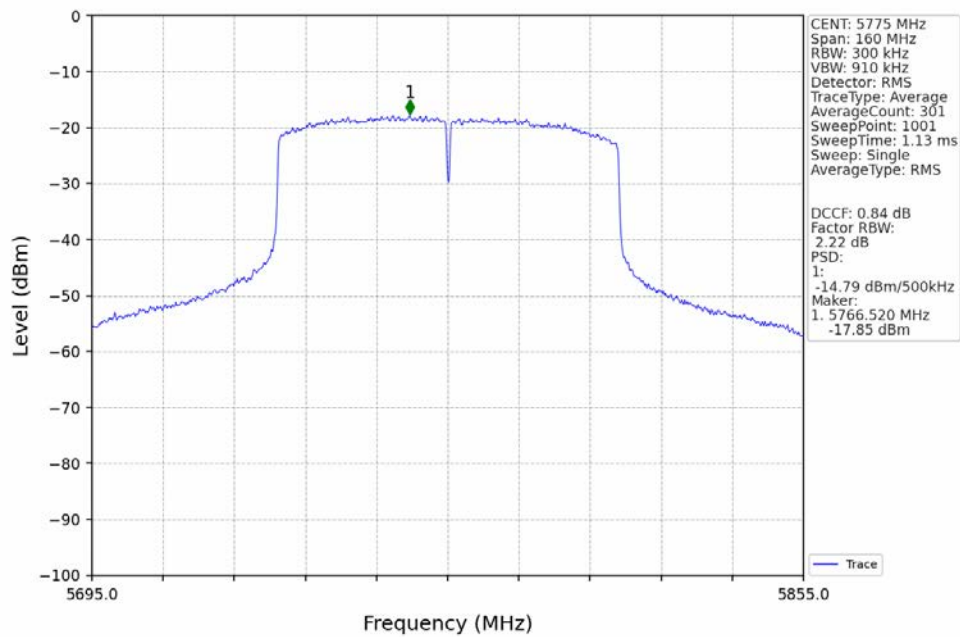
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



5. Unwanted Emissions In Restricted Frequency Bands

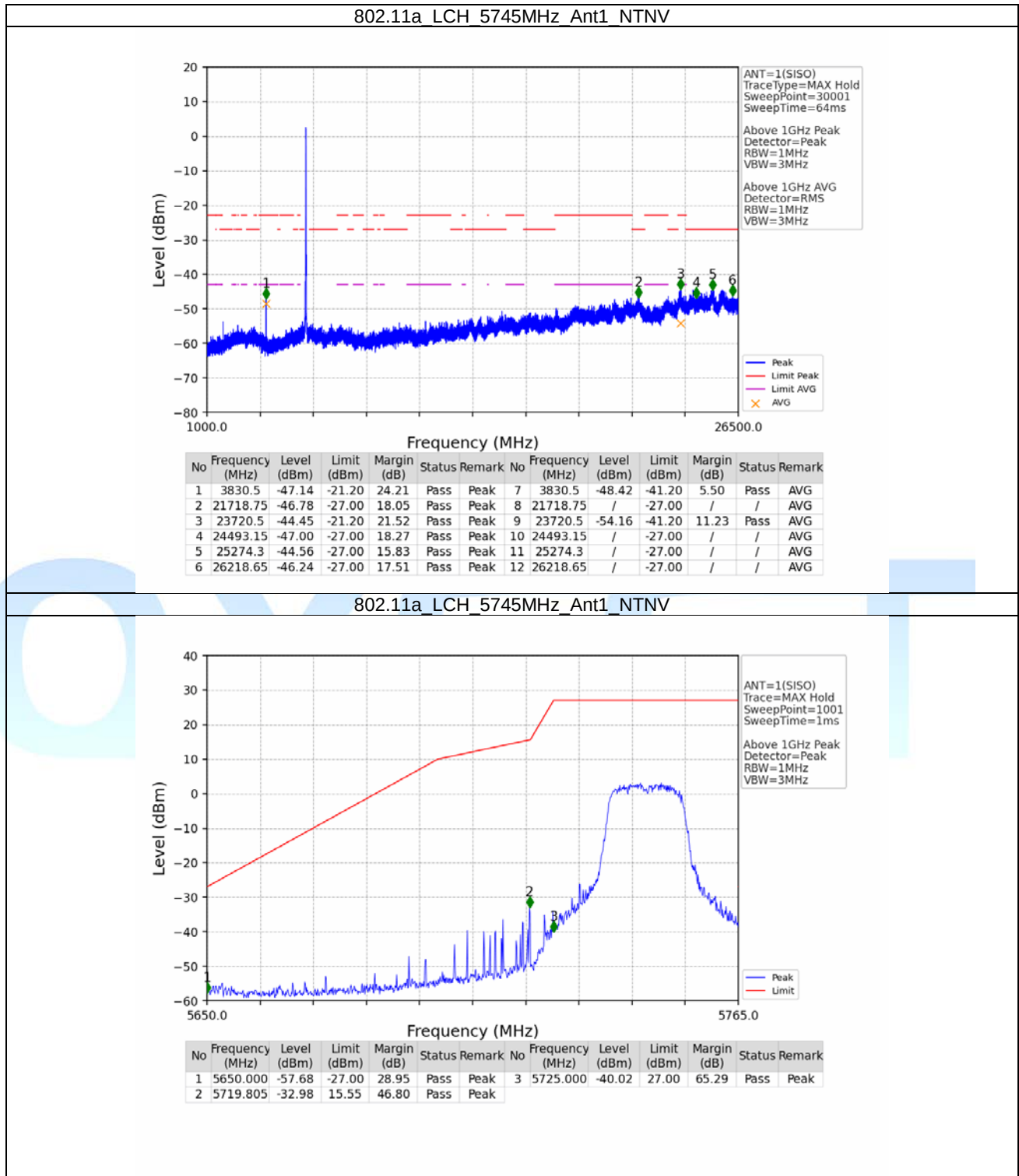
5.1 Test Result

5.1.1 RSE

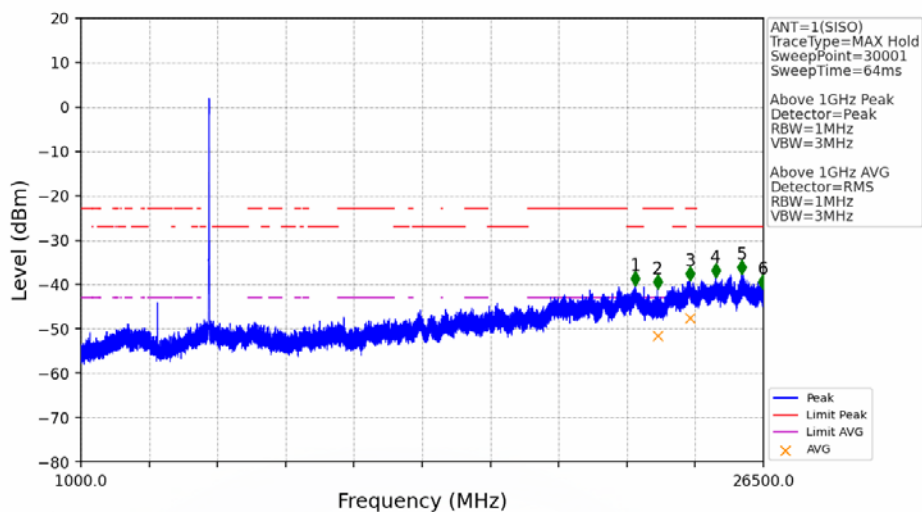
Mode	TX Type	Frequency (MHz)	ANT	Level of Unwanted Emissions (dBm)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	Refer To Test Graph		Pass
		5785	1	Refer To Test Graph		Pass
		5825	1	Refer To Test Graph		Pass
802.11n (HT20)	SISO	5745	1	Refer To Test Graph		Pass
		5785	1	Refer To Test Graph		Pass
		5825	1	Refer To Test Graph		Pass
802.11n (HT40)	SISO	5755	1	Refer To Test Graph		Pass
		5795	1	Refer To Test Graph		Pass
802.11ac (VHT20)	SISO	5745	1	Refer To Test Graph		Pass
		5785	1	Refer To Test Graph		Pass
		5825	1	Refer To Test Graph		Pass
802.11ac (VHT40)	SISO	5755	1	Refer To Test Graph		Pass
		5795	1	Refer To Test Graph		Pass
802.11ac (VHT80)	SISO	5775	1	Refer To Test Graph		Pass

5.2 Test Graph

5.2.1 RSE

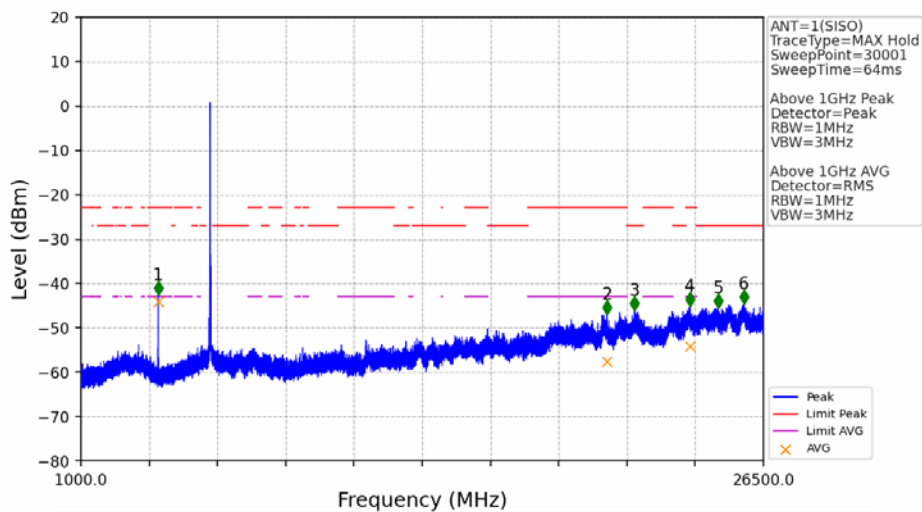


802.11a_MCH_5785MHz_Ant1_NTNV



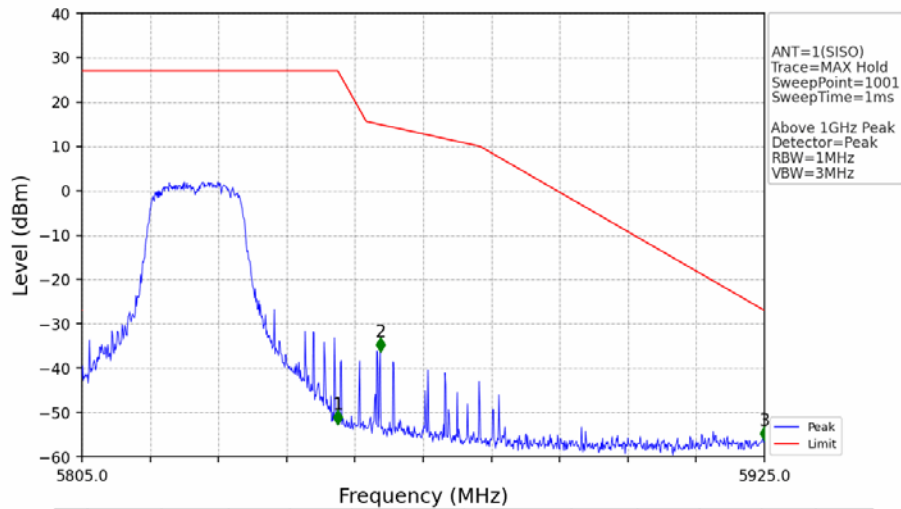
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status Remark
1	21714.5	-40.19	-27.00	11.46	Pass Peak	7	21714.5	/	-27.00	/	/ AVG
2	22537.3	-40.93	-21.20	18.00	Pass Peak	8	22537.3	-51.62	-41.20	8.69	Pass AVG
3	23753.65	-39.13	-21.20	16.20	Pass Peak	9	23753.65	-47.58	-41.20	4.65	Pass AVG
4	24715.85	-38.47	-27.00	9.74	Pass Peak	10	24715.85	/	-27.00	/	/ AVG
5	25698.45	-37.70	-27.00	8.97	Pass Peak	11	25698.45	/	-27.00	/	/ AVG
6	26479.6	-41.01	-27.00	12.28	Pass Peak	12	26479.6	/	-27.00	/	/ AVG

802.11a_HCH_5825MHz_Ant1_NTNV

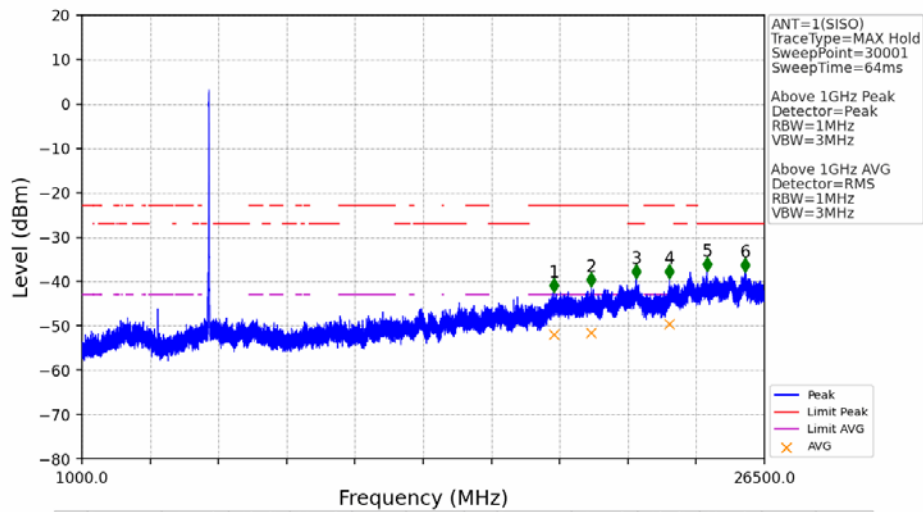


No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status Remark
1	3884.05	-42.57	-21.20	19.64	Pass Peak	7	3884.05	-44.19	-41.20	1.26	Pass AVG
2	20655.4	-47.00	-21.20	24.07	Pass Peak	8	20655.4	-57.60	-41.20	14.68	Pass AVG
3	21681.35	-46.14	-27.00	17.41	Pass Peak	9	21681.35	/	-27.00	/	/ AVG
4	23759.6	-45.16	-21.20	22.23	Pass Peak	10	23759.6	-54.17	-41.20	11.24	Pass AVG
5	24807.65	-45.59	-27.00	16.86	Pass Peak	11	24807.65	/	-27.00	/	/ AVG
6	25763.9	-44.60	-27.00	15.87	Pass Peak	12	25763.9	/	-27.00	/	/ AVG

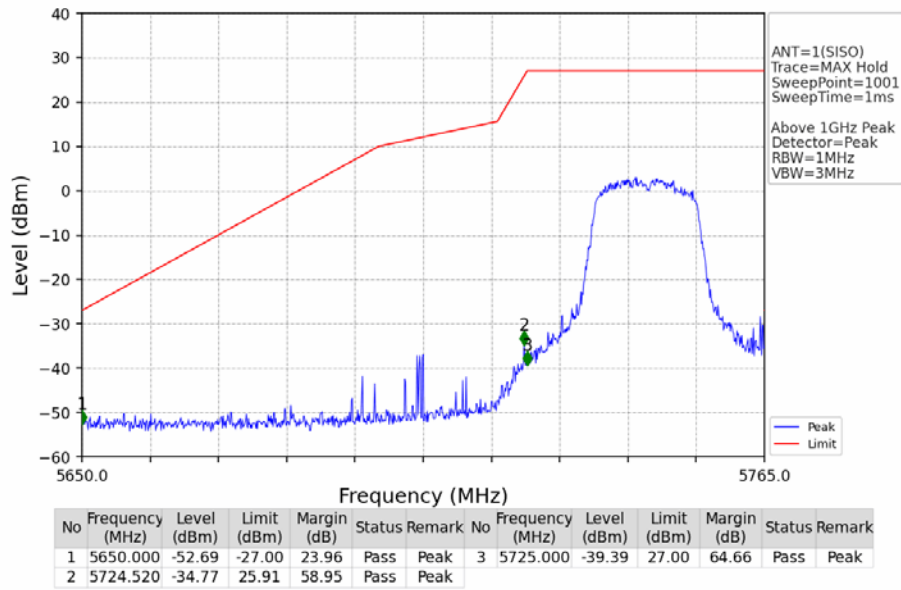
802.11a_HCH_5825MHz_Ant1_NTNV



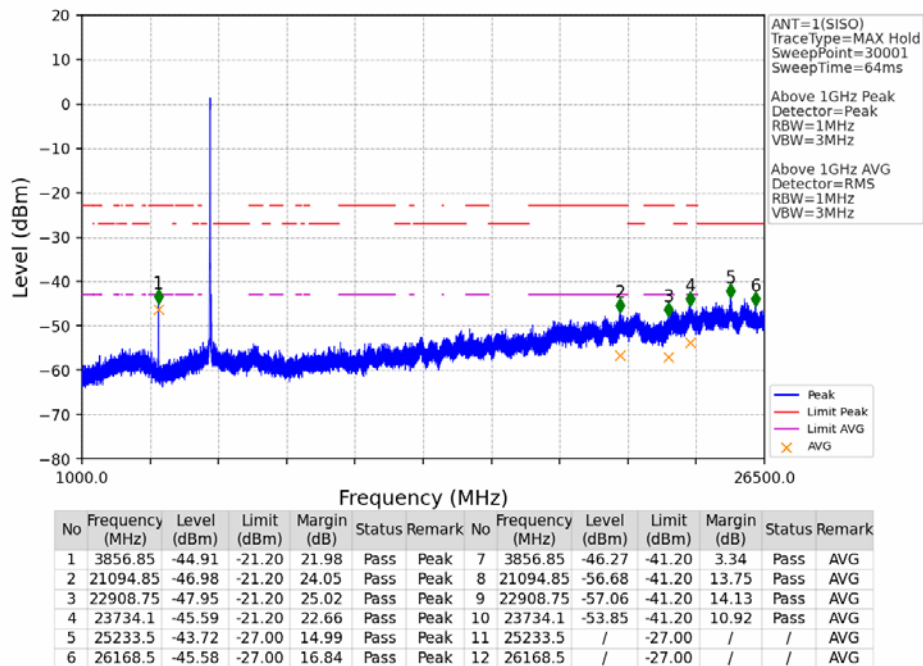
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



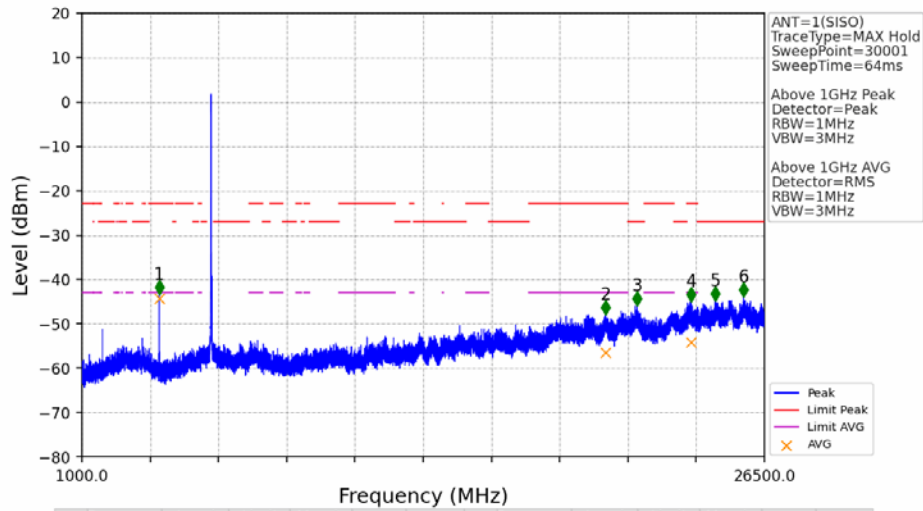
802.11n(HT20) LCH_5745MHz_Ant1_NTNV



802.11n(HT20) MCH_5785MHz_Ant1_NTNV

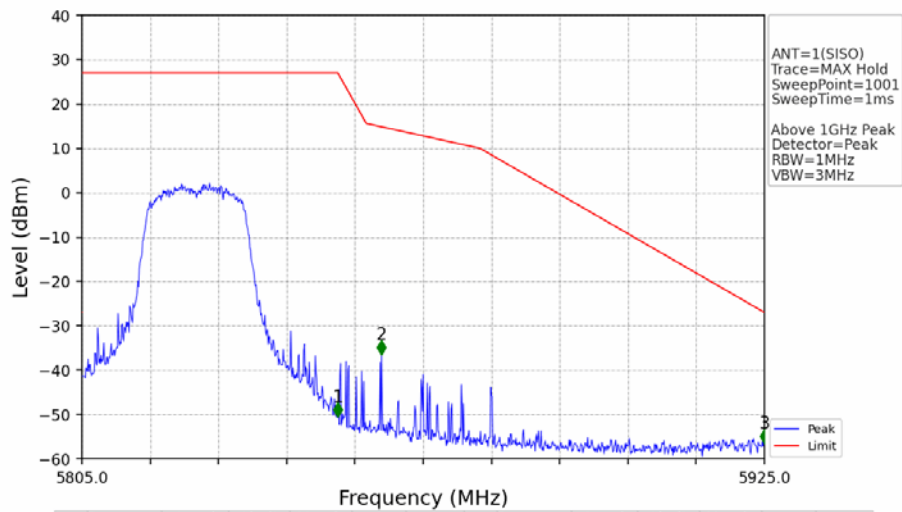


802.11n(HT20) HCH 5825MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status Remark
1	3884.05	-43.26	-21.20	20.33	Pass Peak	7	3884.05	-44.30	-41.20	1.37	Pass AVG
2	20567	-47.90	-21.20	24.97	Pass Peak	8	20567	-56.58	-41.20	13.64	Pass AVG
3	21743.4	-45.94	-27.00	17.21	Pass Peak	9	21743.4	/	-27.00	/	/ AVG
4	23761.3	-44.93	-21.20	22.00	Pass Peak	10	23761.3	-54.19	-41.20	11.26	Pass AVG
5	24663.15	-44.88	-27.00	16.15	Pass Peak	11	24663.15	/	-27.00	/	/ AVG
6	25725.65	-43.92	-27.00	15.19	Pass Peak	12	25725.65	/	-27.00	/	/ AVG

802.11n(HT20) HCH 5825MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status Remark
1	5850.000	-50.41	27.00	75.68	Pass Peak	3	5925.000	-56.53	-27.00	27.80	Pass Peak
2	5857.680	-36.42	14.85	49.55	Pass Peak						