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Annex for 5G Wi-Fi BAND3

Test Report No.: CTL2409269021-WF04

TABLE OF CONTENTS

1. Bandwidth	2
1.1 Test Result	2
1.1.1 OBW	2
1.1.2 6dB BW	2
1.2 Test Graph	3
1.2.1 OBW	3
1.2.2 6dB BW	10
2. Maximum Conducted Output Power	17
2.1 Test Result	17
2.1.1 Power	17
3. Maximum Power Spectral Density	18
3.1 Test Result	18
3.1.1 PSD-Band3	18
3.2 Test Graph	19
3.2.1 PSD-Band3	19
4. Frequency Stability	26
4.1 Test Result	26
4.1.1 Ant1	26
5. Form731	27
5.1 Test Result	27
5.1.1 Form731	27

FCCID: 2AUARHDY9S

1. Bandwidth

1.1 Test Result

1.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	16.748	/	Pass
		5785	1	16.729	/	Pass
		5825	1	16.758	/	Pass
802.11n (HT20)	SISO	5745	1	17.830	/	Pass
		5785	1	17.850	/	Pass
		5825	1	17.823	/	Pass
802.11n (HT40)	SISO	5755	1	36.682	/	Pass
		5795	1	36.411	/	Pass
802.11ac (VHT20)	SISO	5745	1	17.821	/	Pass
		5785	1	17.821	/	Pass
		5825	1	17.784	/	Pass
802.11ac (VHT40)	SISO	5755	1	36.526	/	Pass
		5795	1	36.401	/	Pass
802.11ac (VHT80)	SISO	5775	1	75.316	/	Pass

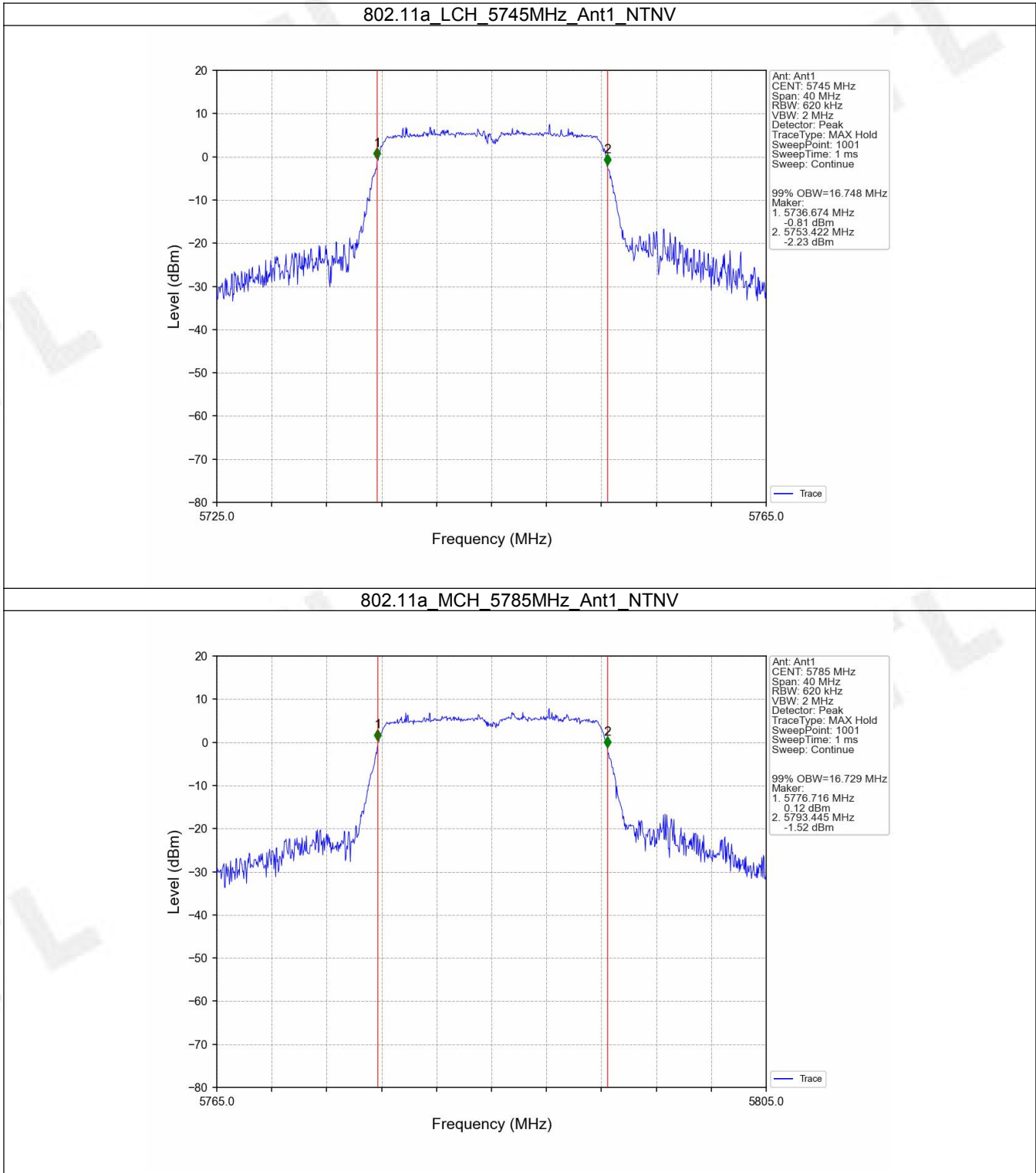
1.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	16.356	≥ 0.5	Pass
		5785	1	16.358	≥ 0.5	Pass
		5825	1	16.363	≥ 0.5	Pass
802.11n (HT20)	SISO	5745	1	17.595	≥ 0.5	Pass
		5785	1	17.583	≥ 0.5	Pass
		5825	1	17.586	≥ 0.5	Pass
802.11n (HT40)	SISO	5755	1	35.180	≥ 0.5	Pass
		5795	1	35.161	≥ 0.5	Pass
802.11ac (VHT20)	SISO	5745	1	17.567	≥ 0.5	Pass
		5785	1	17.336	≥ 0.5	Pass
		5825	1	17.565	≥ 0.5	Pass
802.11ac (VHT40)	SISO	5755	1	35.073	≥ 0.5	Pass
		5795	1	35.098	≥ 0.5	Pass
802.11ac (VHT80)	SISO	5775	1	73.836	≥ 0.5	Pass

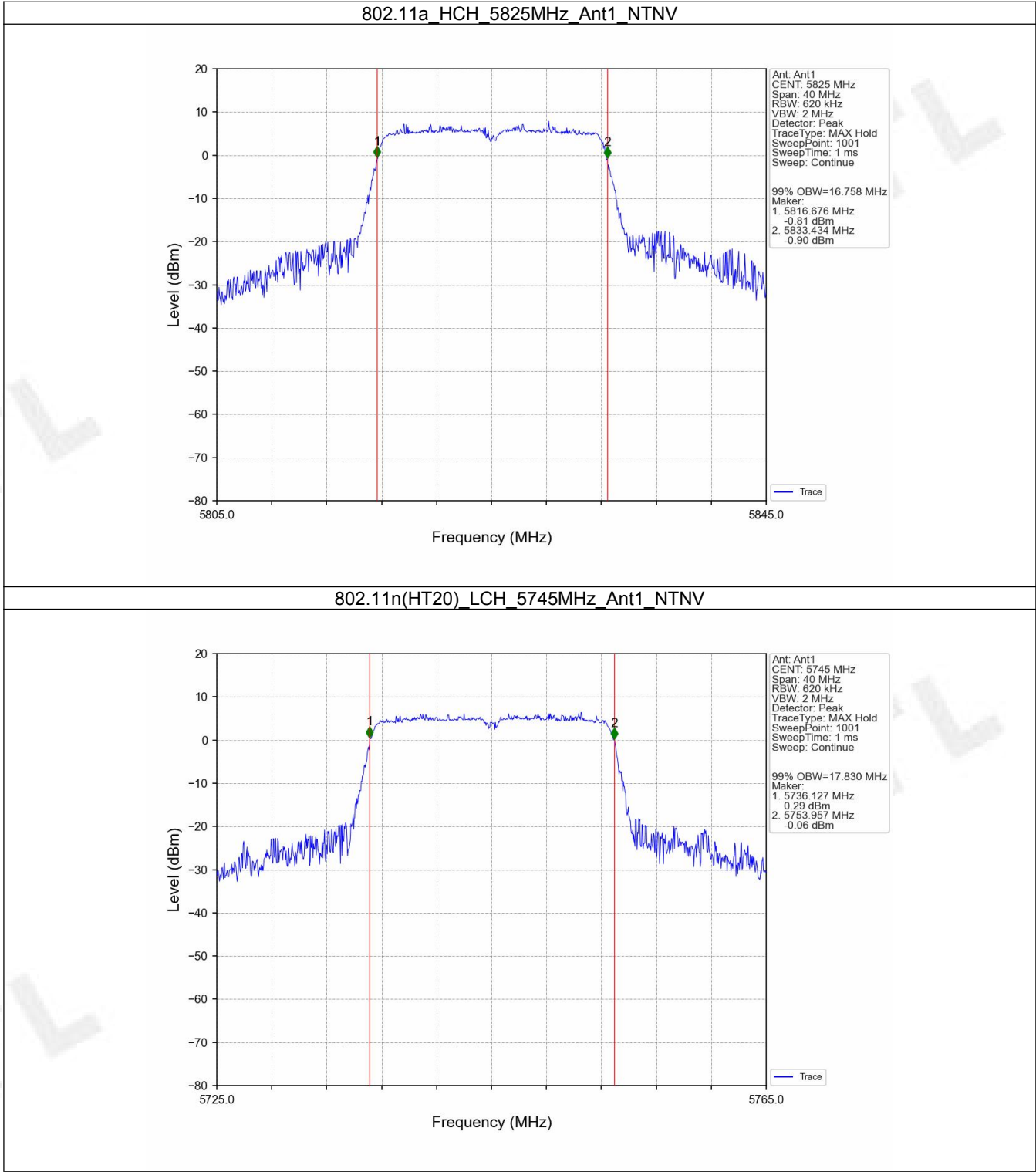
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1.2 Test Graph

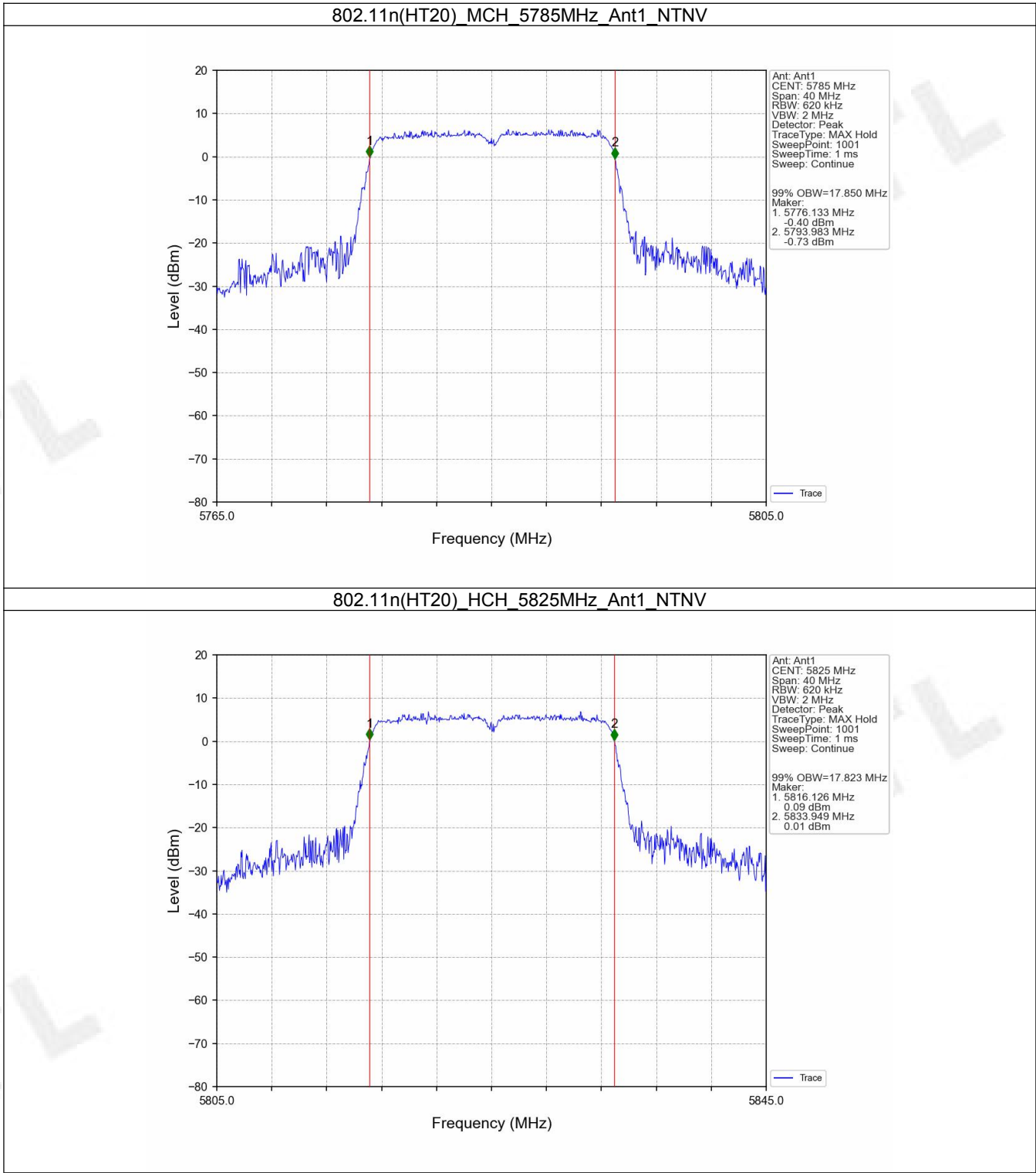
1.2.1 OBW



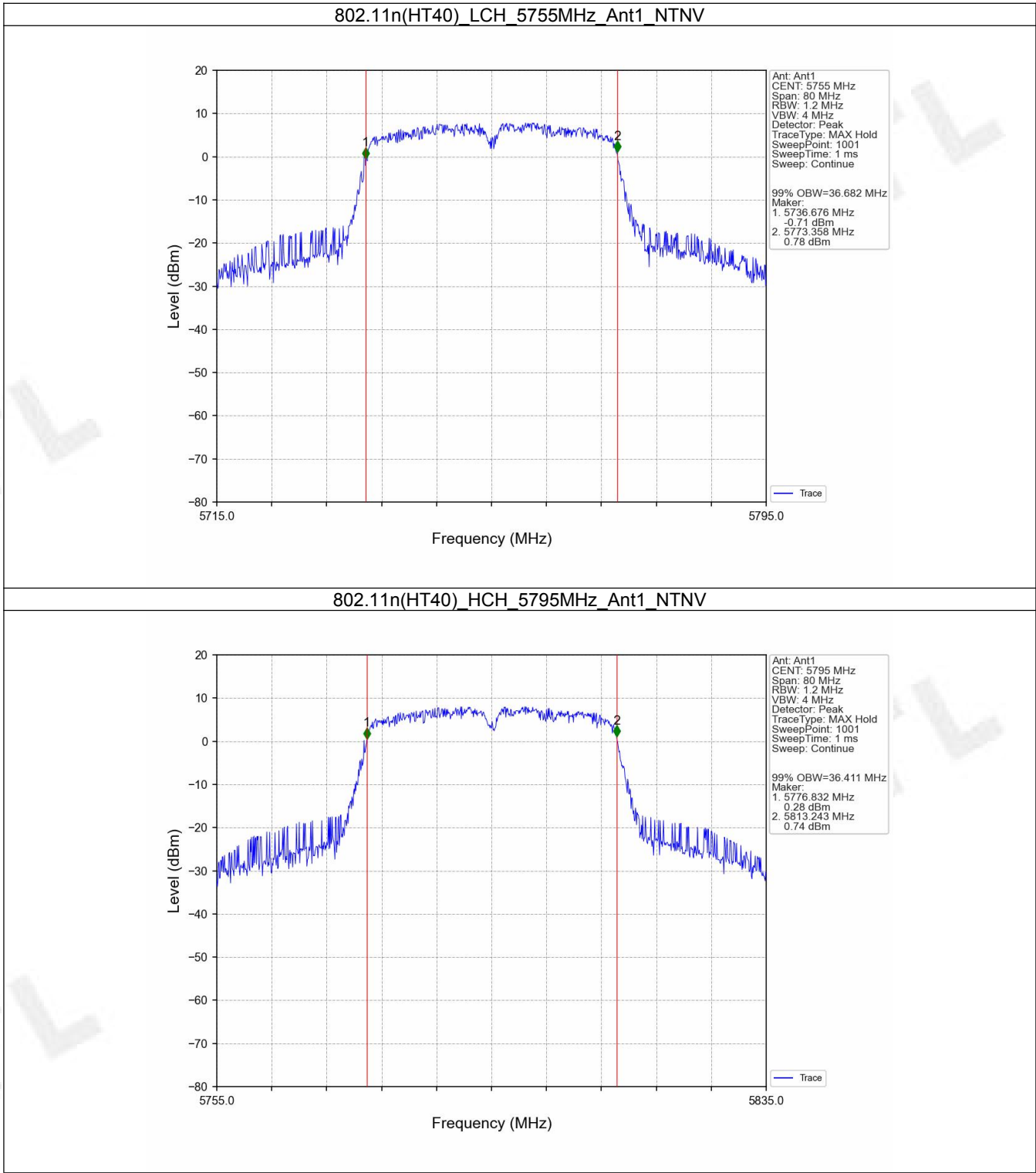
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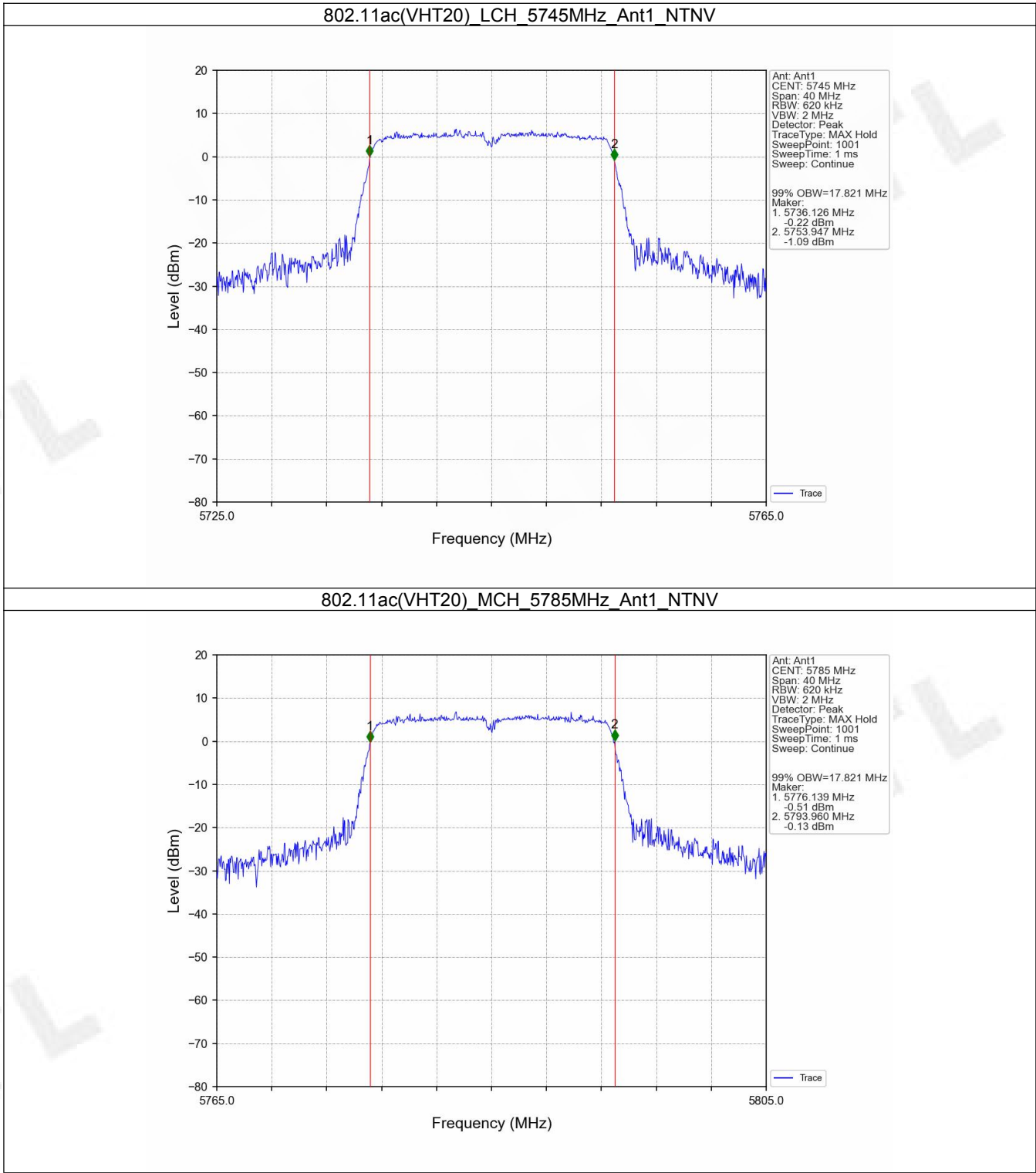
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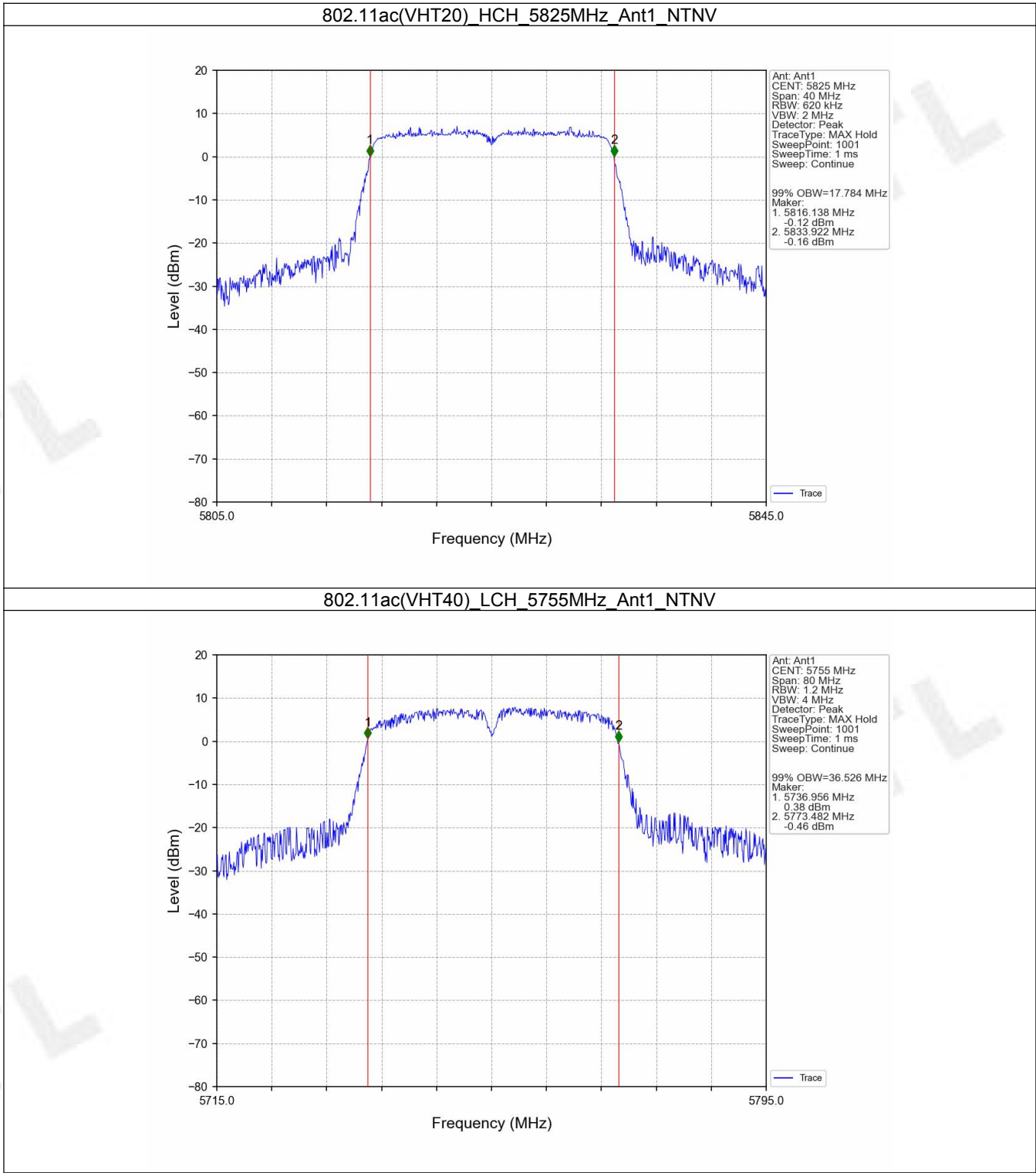
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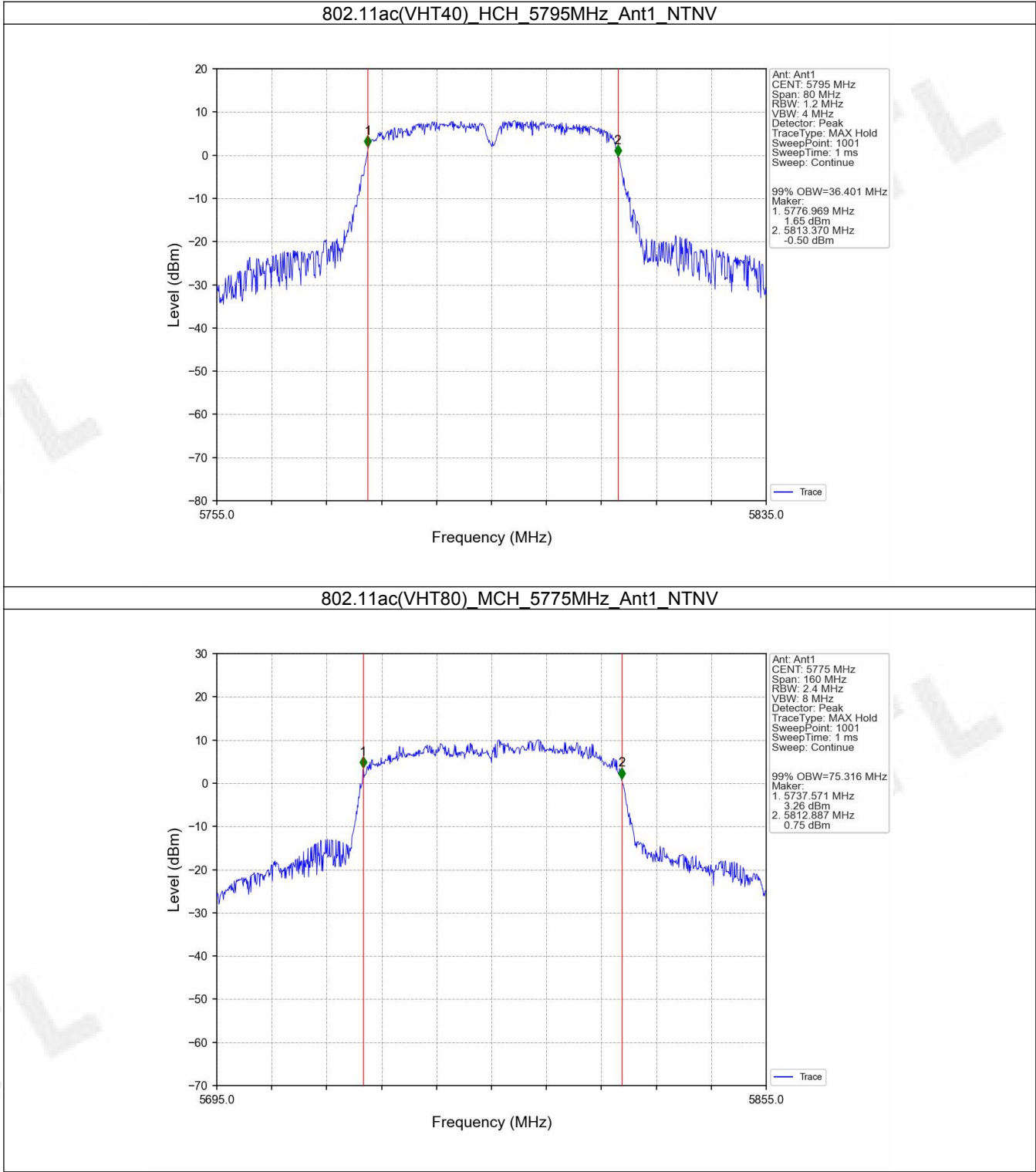
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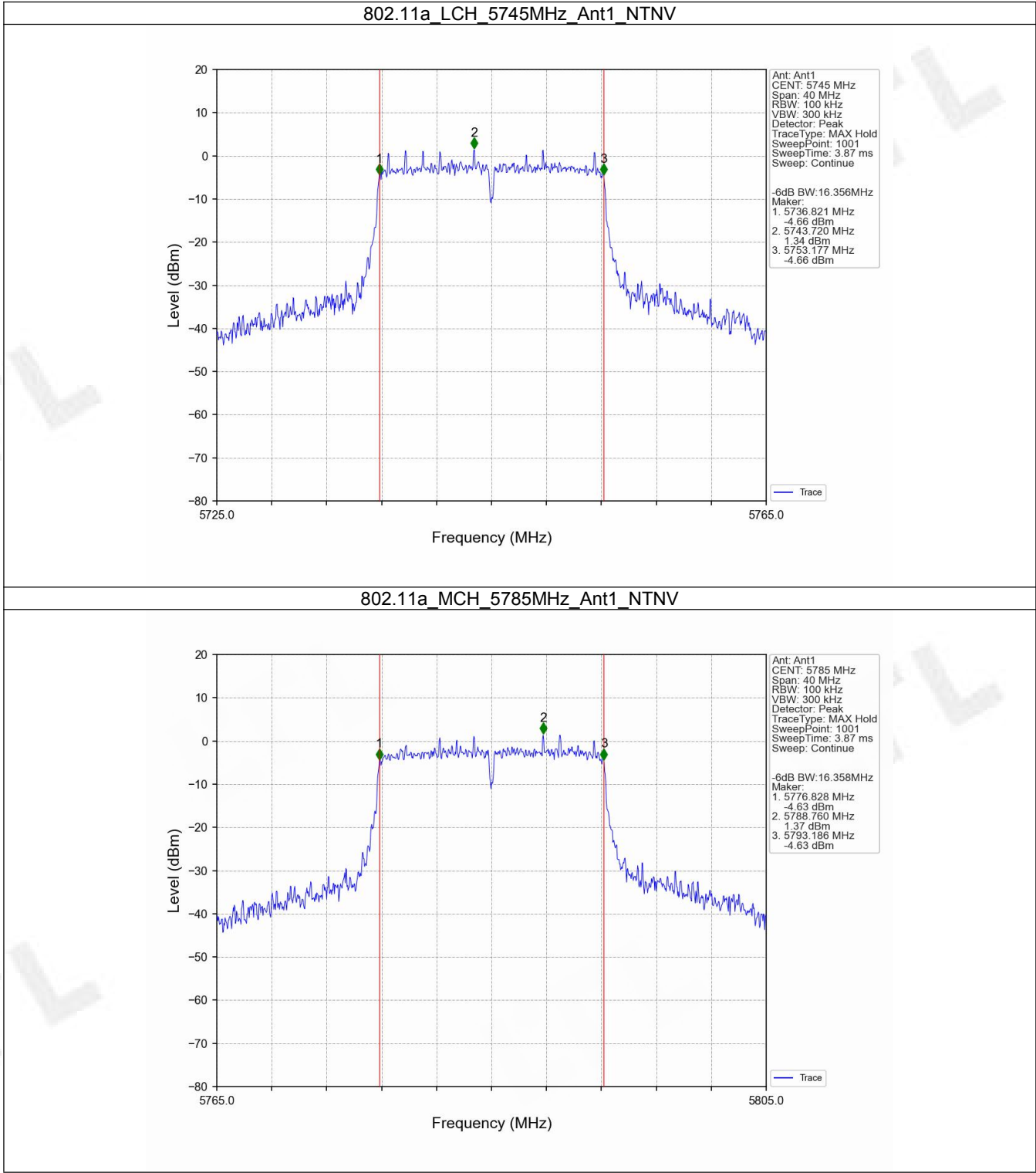


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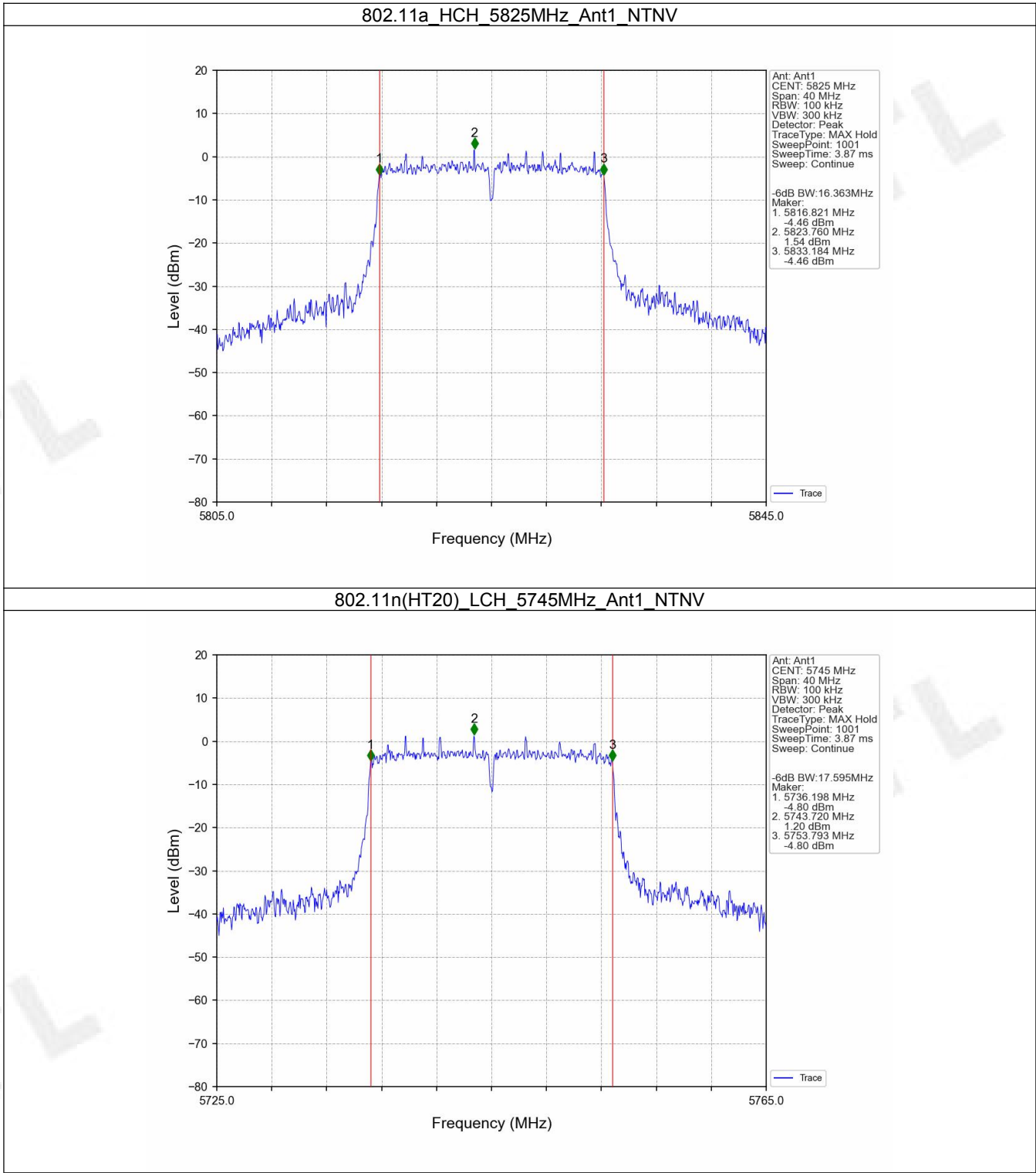


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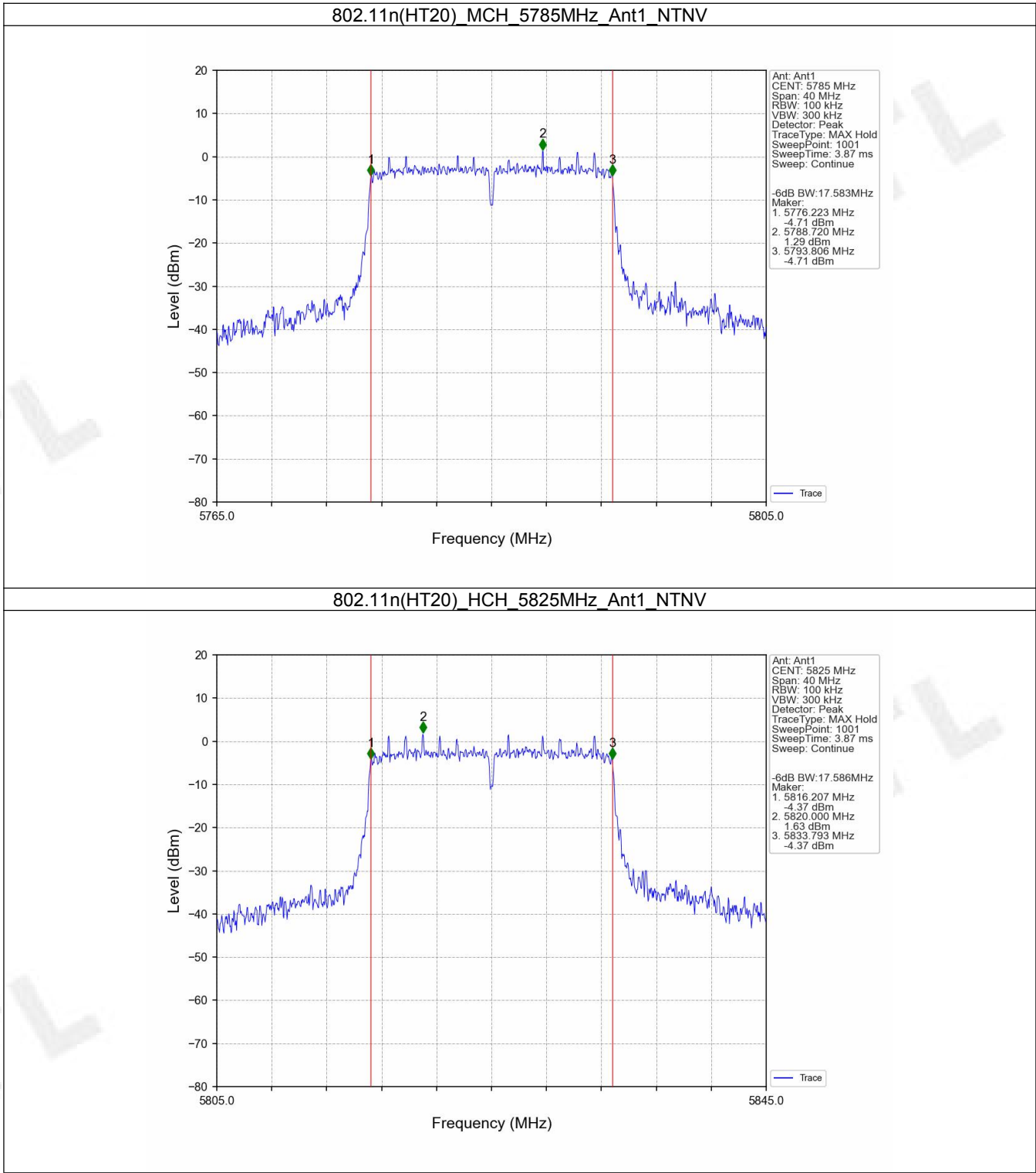
1.2.2 6dB BW



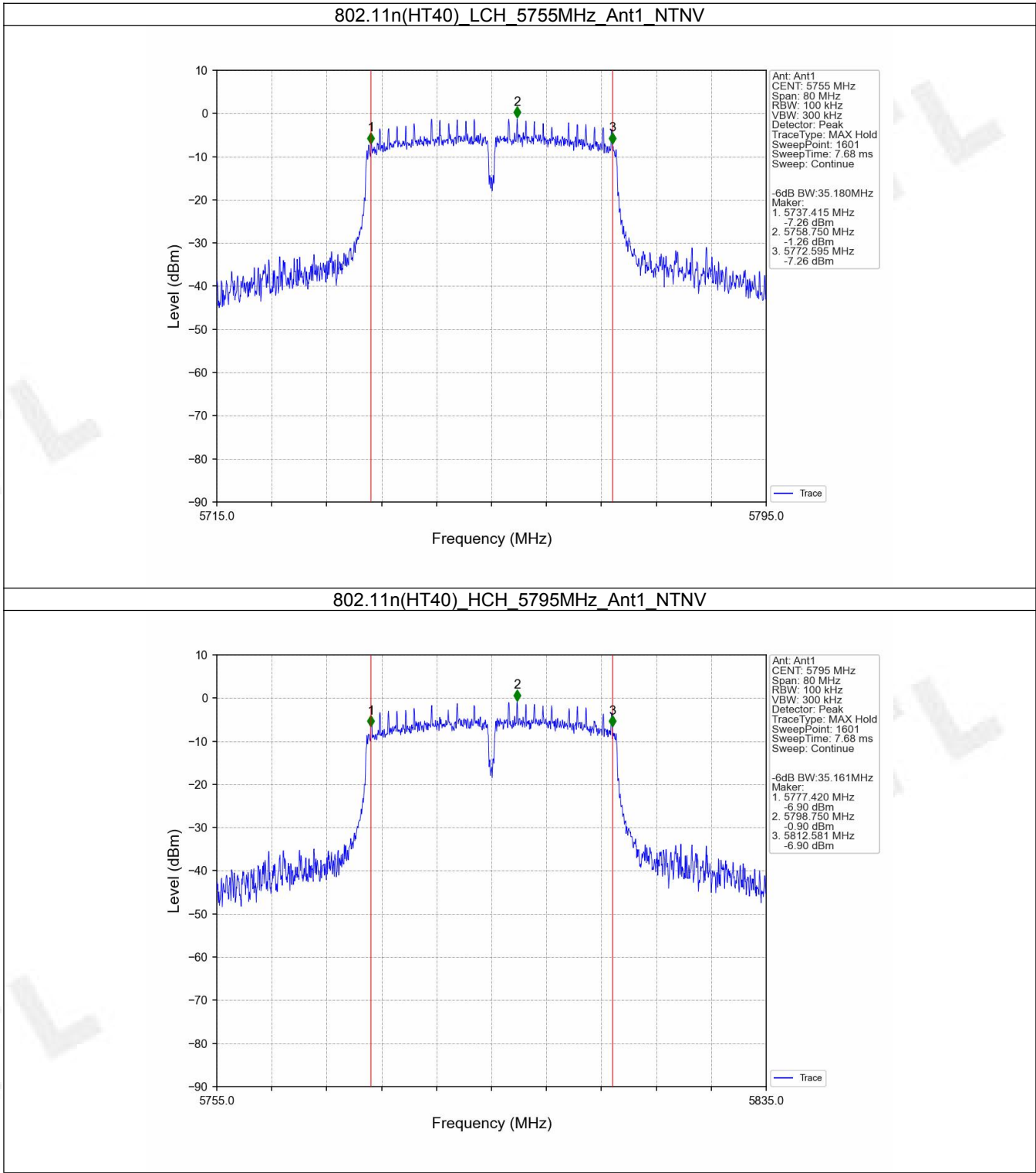
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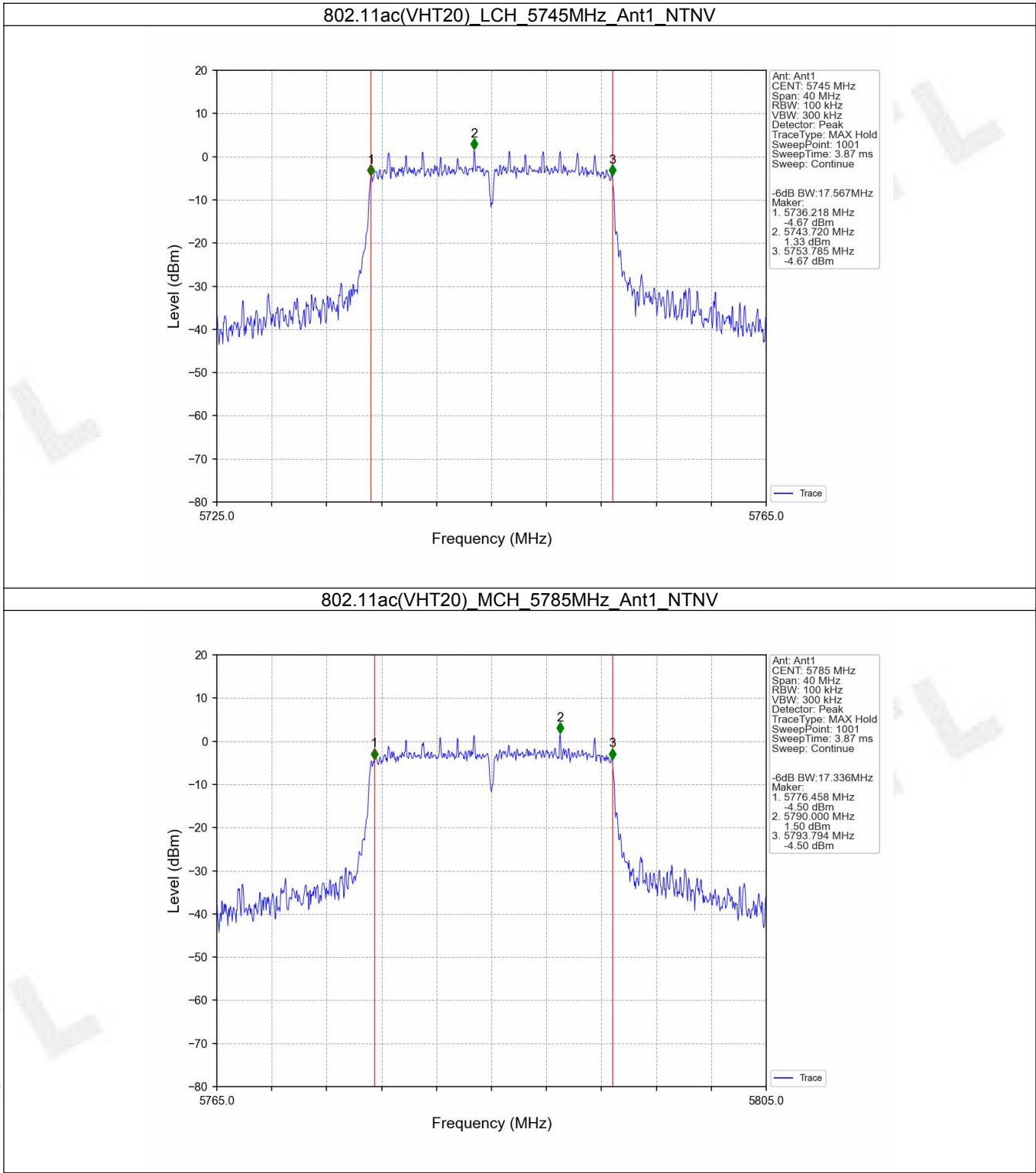
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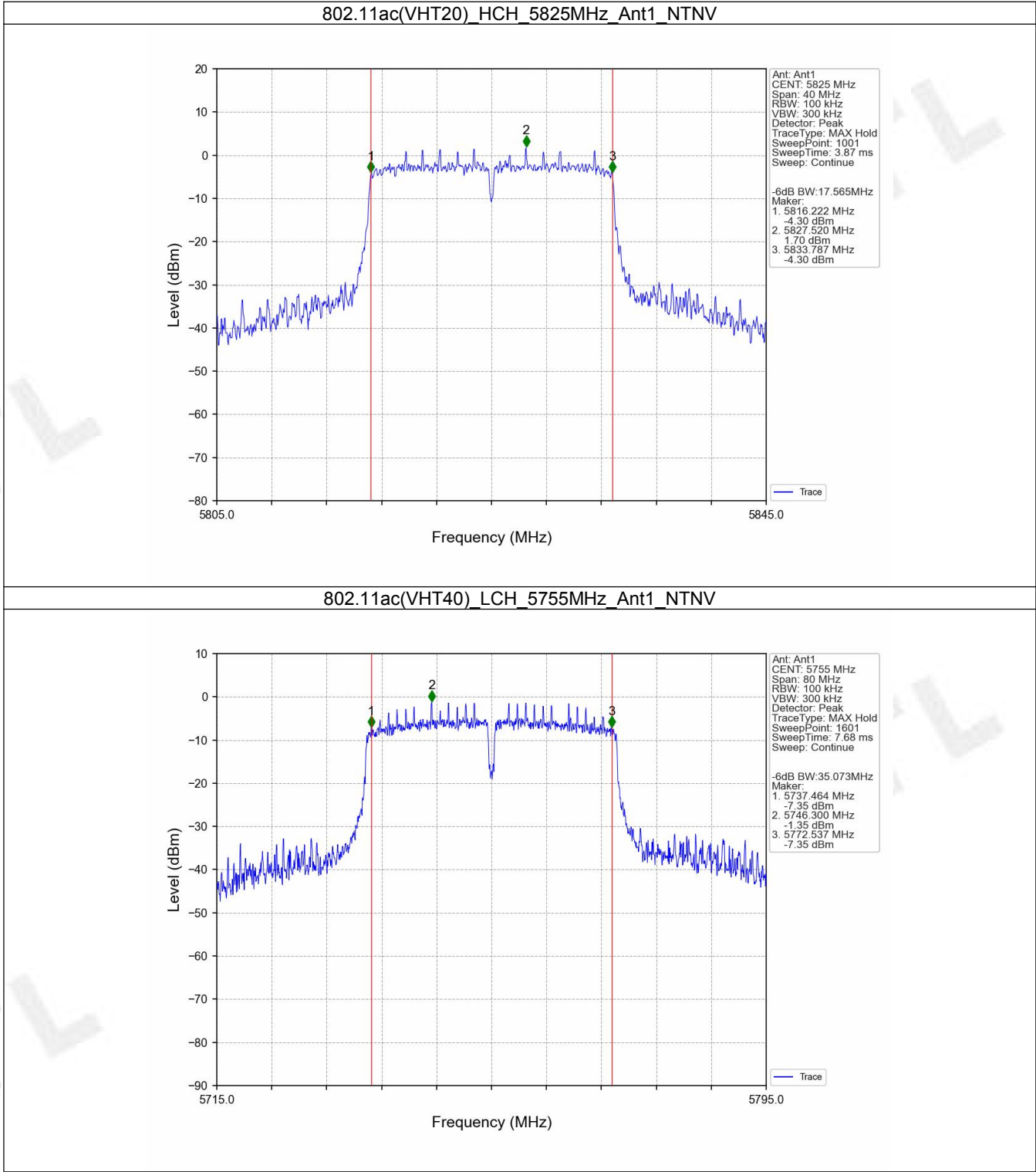
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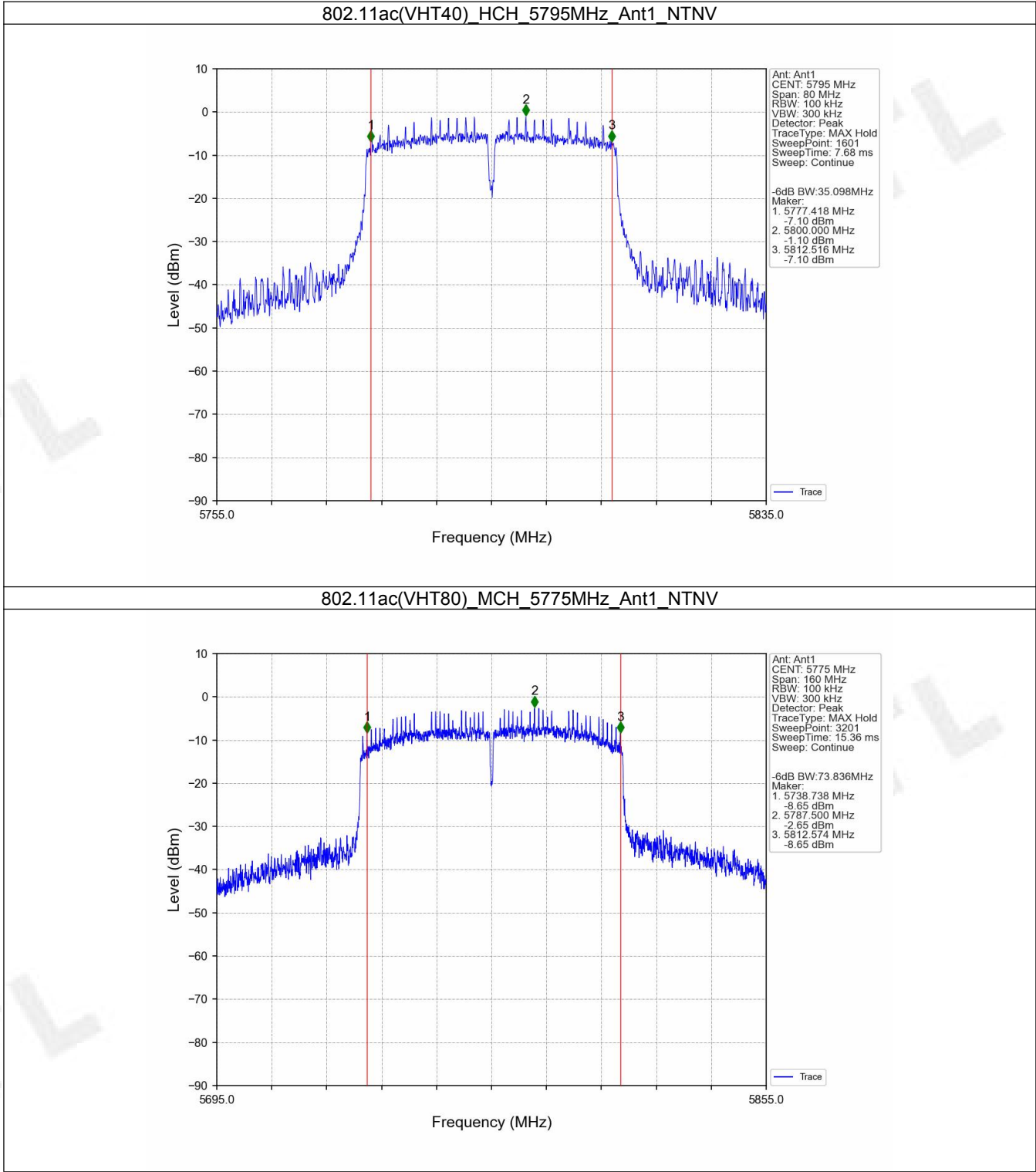
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2. Maximum Conducted Output Power**2.1 Test Result****2.1.1 Power**

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11a	SISO	5745	12.64	<=30	Pass
		5785	12.79	<=30	Pass
		5825	13.03	<=30	Pass
802.11n (HT20)	SISO	5745	12.63	<=30	Pass
		5785	12.83	<=30	Pass
		5825	13.05	<=30	Pass
802.11n (HT40)	SISO	5755	12.69	<=30	Pass
		5795	12.92	<=30	Pass
802.11ac (VHT20)	SISO	5745	12.61	<=30	Pass
		5785	12.83	<=30	Pass
		5825	13.05	<=30	Pass
802.11ac (VHT40)	SISO	5755	12.69	<=30	Pass
		5795	12.94	<=30	Pass
802.11ac (VHT80)	SISO	5775	13.56	<=30	Pass

Note1: Antenna Gain: Ant1: 0.88dBi;

FCCID: 2AUARHDY9S

3. Maximum Power Spectral Density**3.1 Test Result****3.1.1 PSD-Band3**

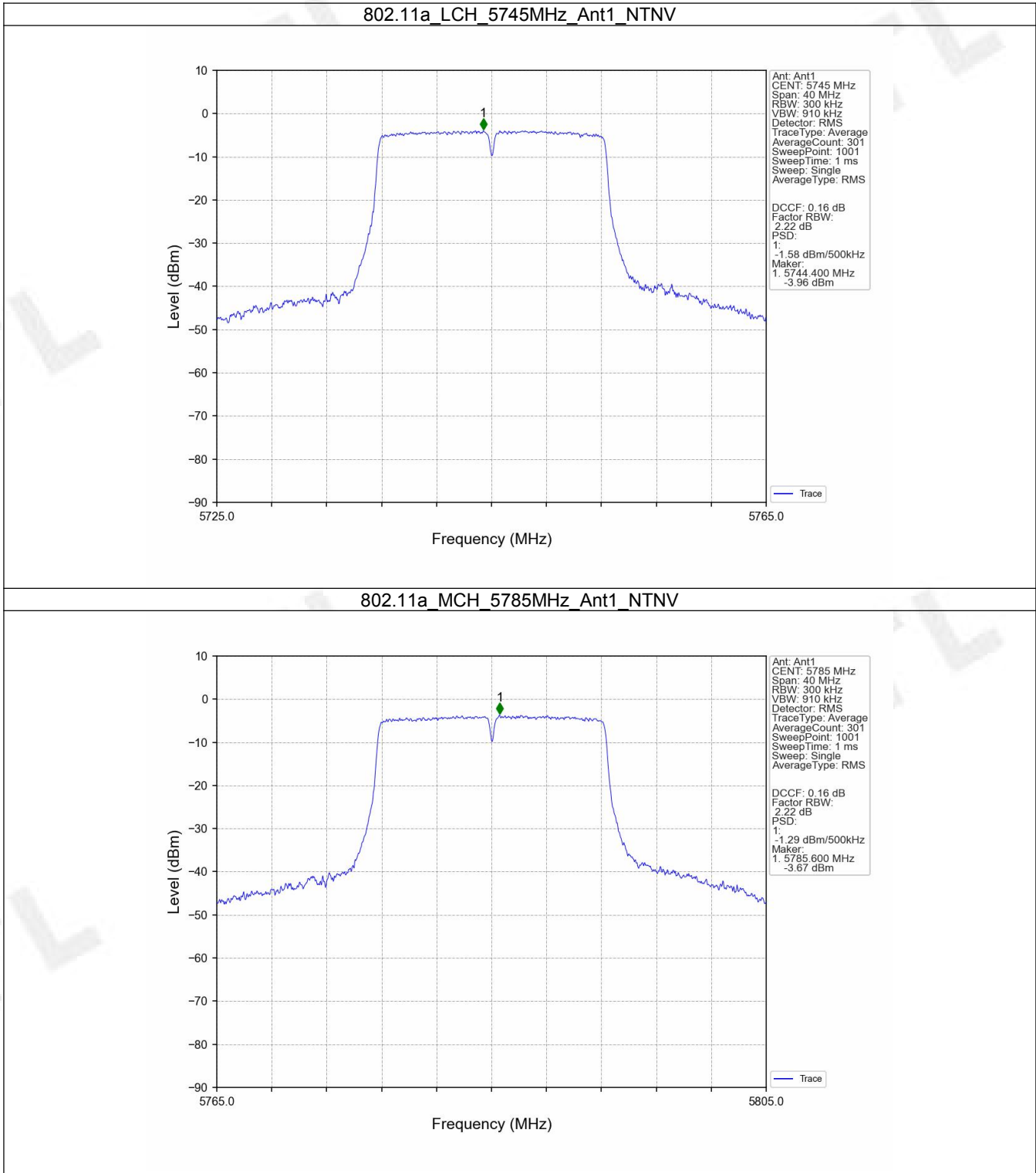
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5745	-1.58	<=30	Pass
		5785	-1.29	<=30	Pass
		5825	-1.00	<=30	Pass
802.11n (HT20)	SISO	5745	-1.81	<=30	Pass
		5785	-1.64	<=30	Pass
		5825	-1.40	<=30	Pass
802.11n (HT40)	SISO	5755	-4.47	<=30	Pass
		5795	-4.12	<=30	Pass
802.11ac (VHT20)	SISO	5745	-1.64	<=30	Pass
		5785	-1.51	<=30	Pass
		5825	-1.47	<=30	Pass
802.11ac (VHT40)	SISO	5755	-4.39	<=30	Pass
		5795	-3.90	<=30	Pass
802.11ac (VHT80)	SISO	5775	-5.97	<=30	Pass

Note1: Antenna Gain: Ant1: 0.88dBi;

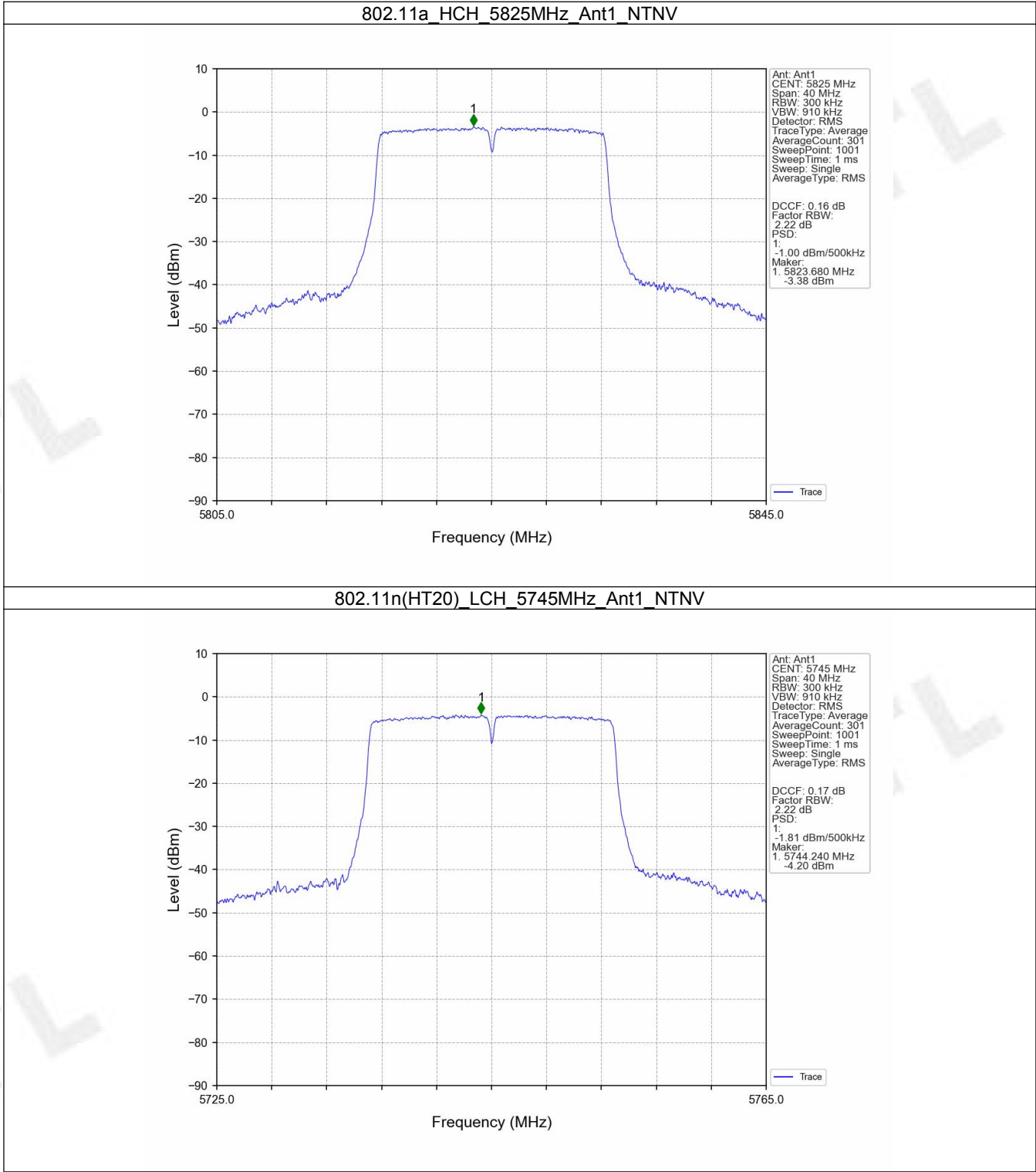
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3.2 Test Graph

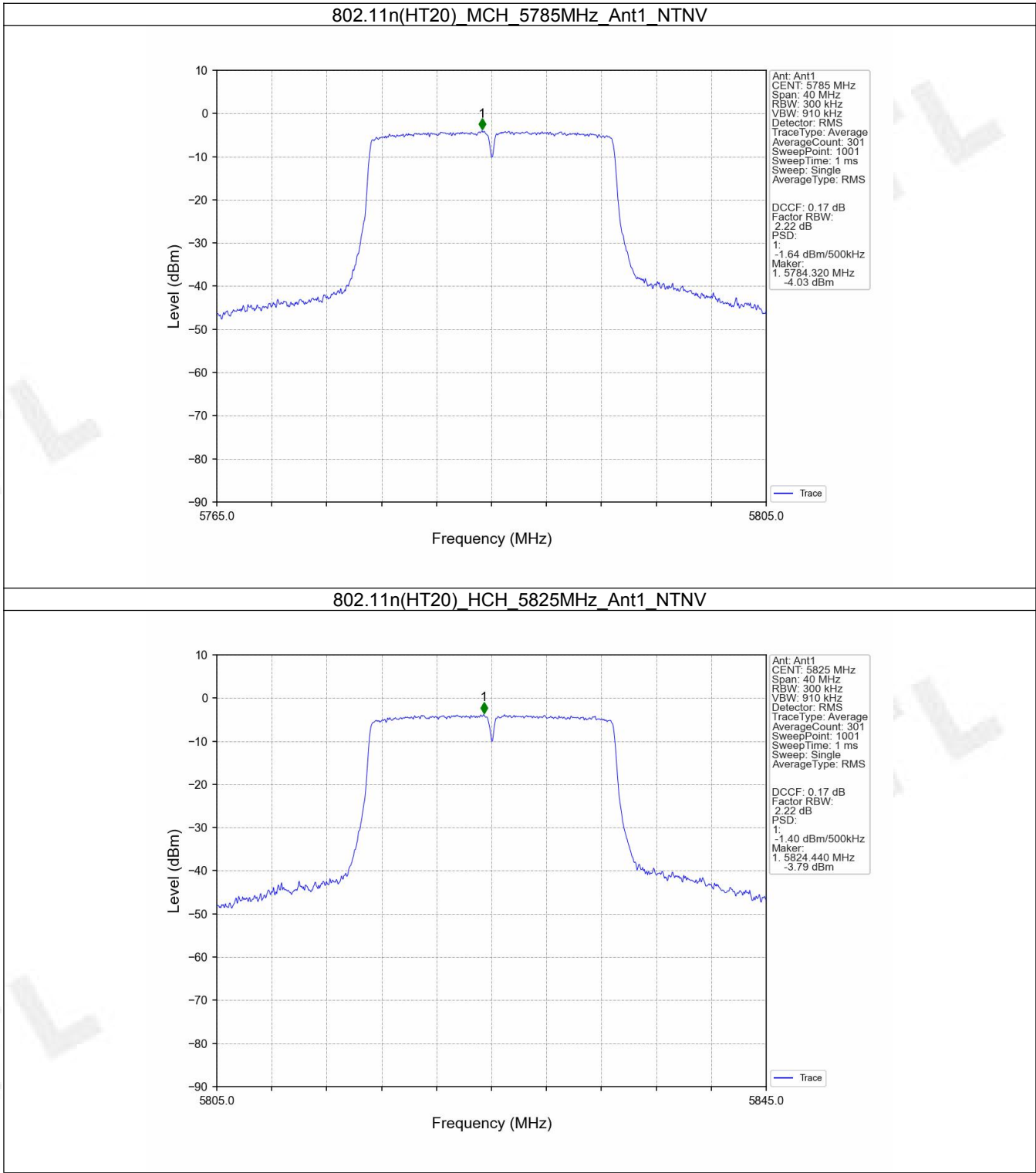
3.2.1 PSD-Band3



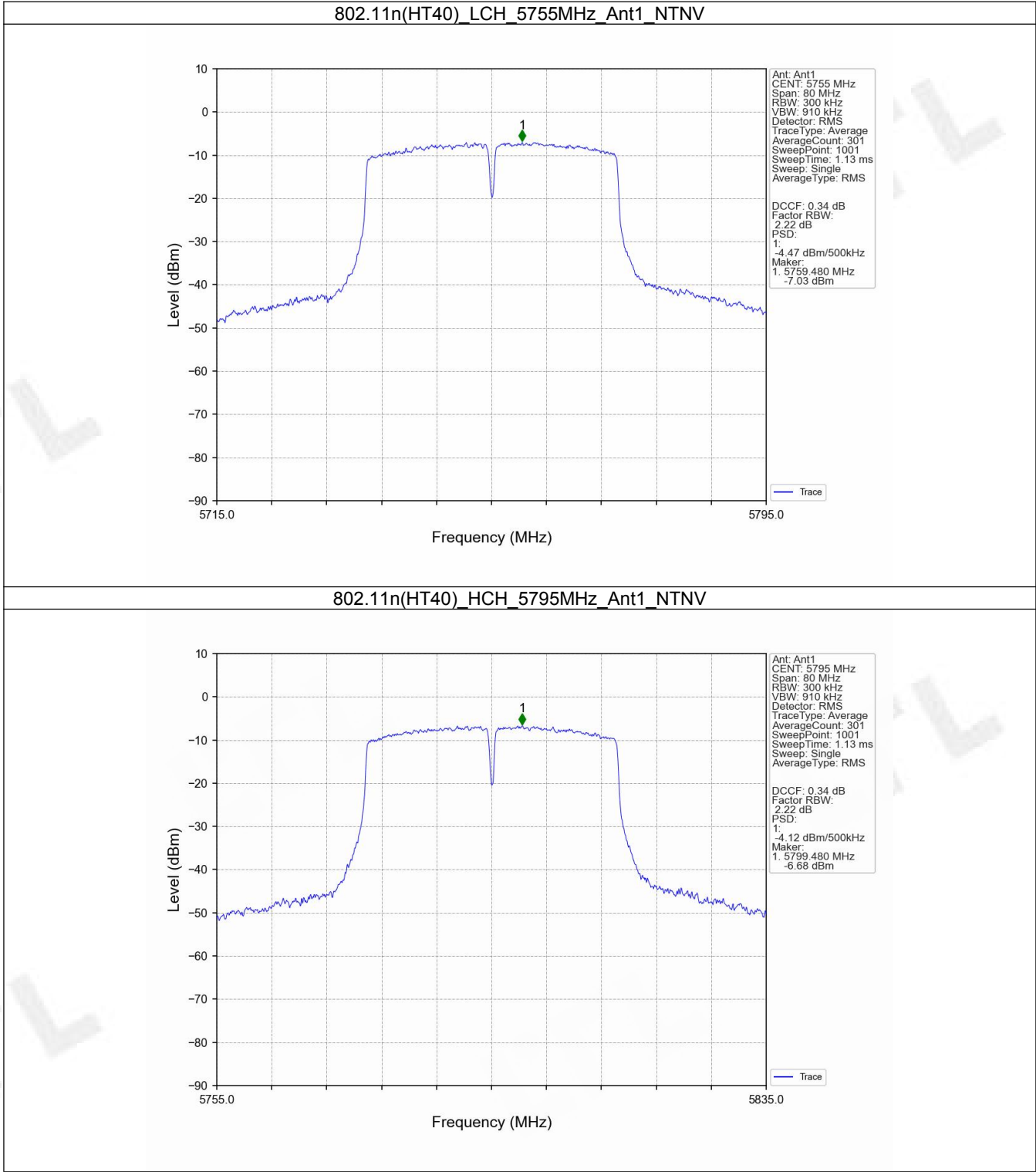
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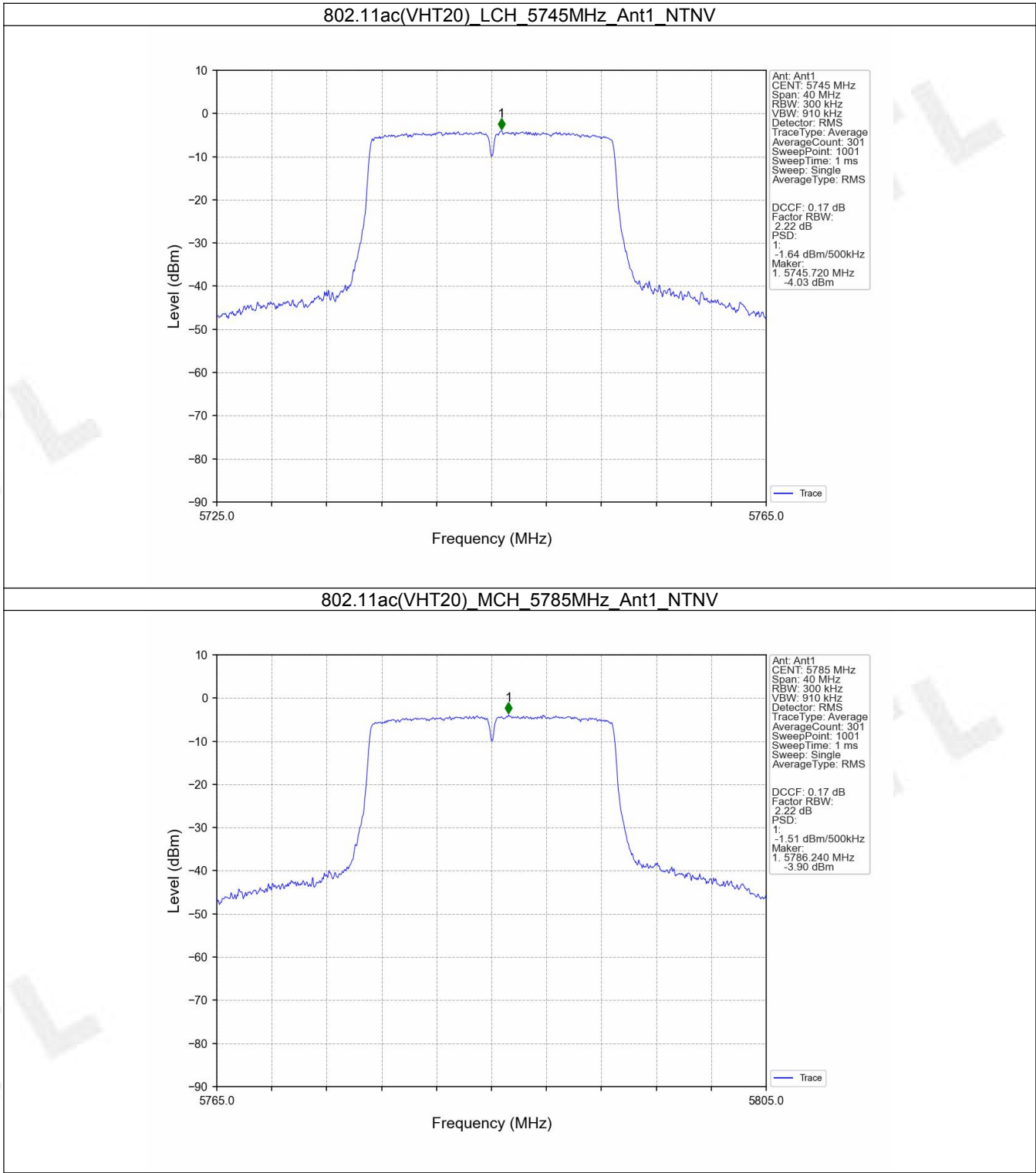
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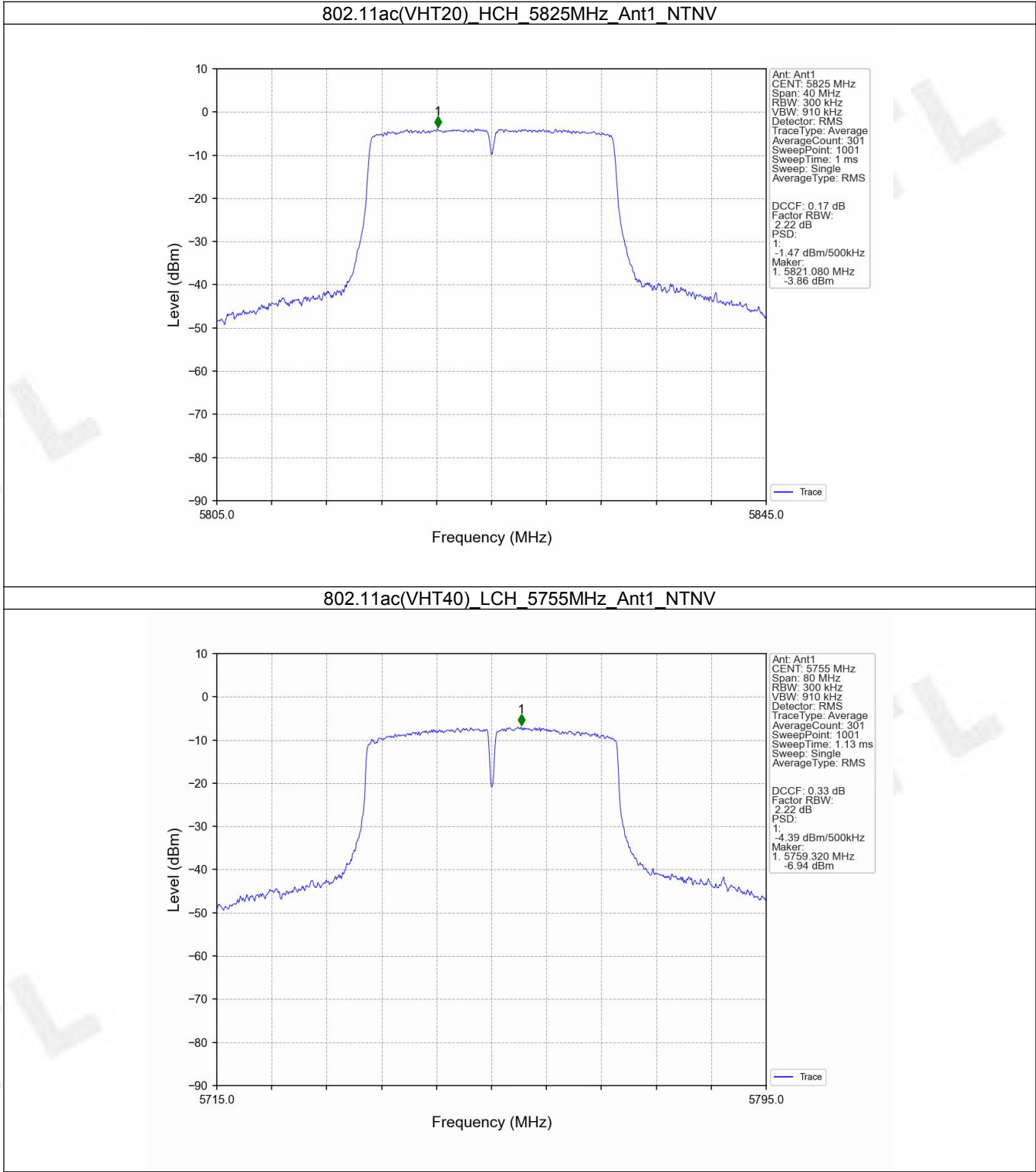
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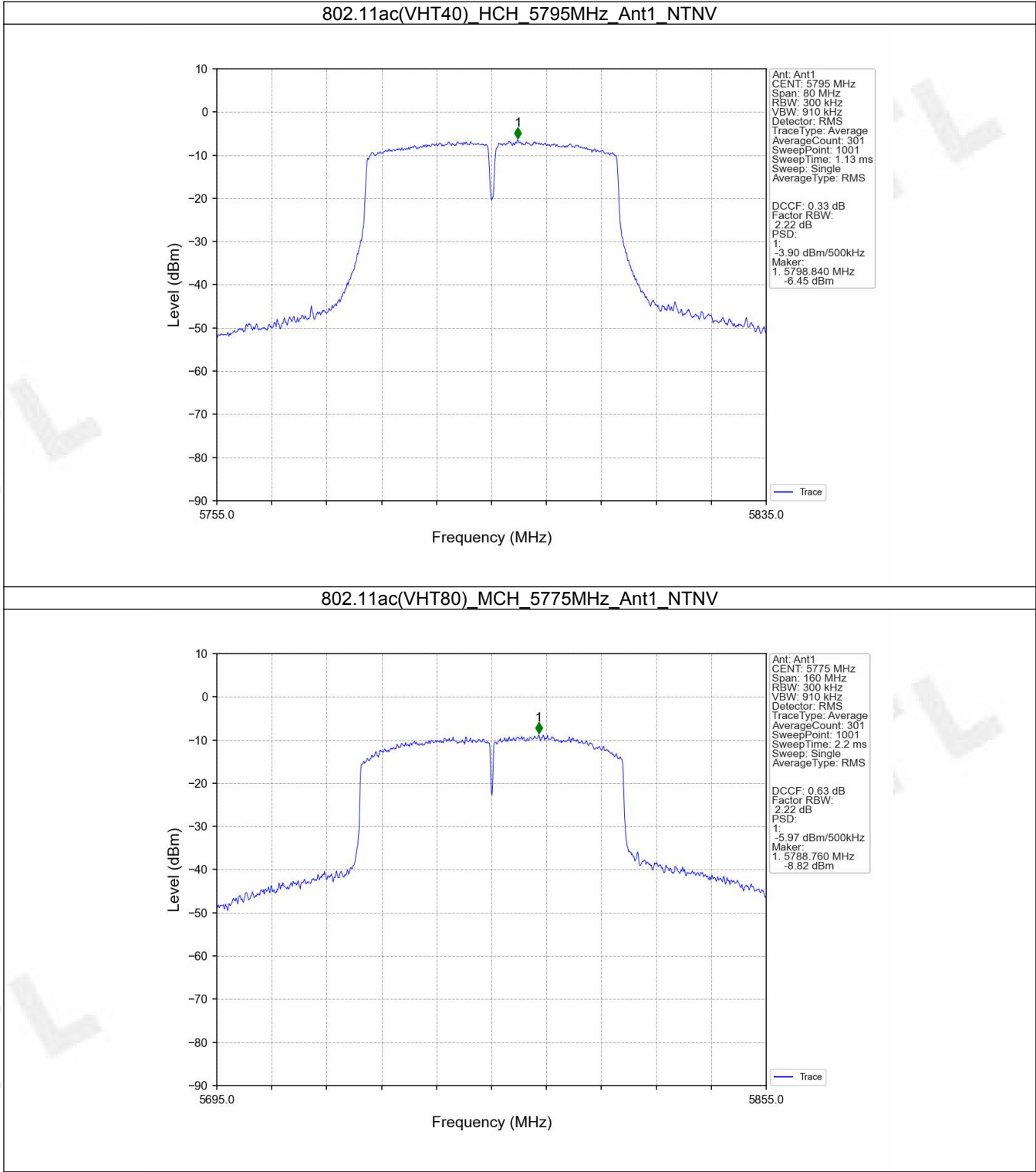
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4. Frequency Stability**4.1 Test Result****4.1.1 Ant1**

Ant1							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VAC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
Carrier Wave	SISO	5745	20	102	5744.987	5725 to 5850	Pass
				120	5744.987	5725 to 5850	Pass
				138	5744.987	5725 to 5850	Pass
			-30	120	5744.987	5725 to 5850	Pass
			-20	120	5744.987	5725 to 5850	Pass
			-10	120	5744.987	5725 to 5850	Pass
			0	120	5744.987	5725 to 5850	Pass
			10	120	5744.987	5725 to 5850	Pass
			30	120	5744.987	5725 to 5850	Pass
			40	120	5744.987	5725 to 5850	Pass
			50	120	5744.987	5725 to 5850	Pass
		5785	20	102	5784.987	5725 to 5850	Pass
				120	5784.986	5725 to 5850	Pass
				138	5784.986	5725 to 5850	Pass
			-30	120	5784.987	5725 to 5850	Pass
			-20	120	5784.986	5725 to 5850	Pass
			-10	120	5784.986	5725 to 5850	Pass
			0	120	5784.986	5725 to 5850	Pass
			10	120	5784.986	5725 to 5850	Pass
			30	120	5784.986	5725 to 5850	Pass
			40	120	5784.986	5725 to 5850	Pass
			50	120	5784.986	5725 to 5850	Pass
		5825	20	102	5824.986	5725 to 5850	Pass
				120	5824.987	5725 to 5850	Pass
				138	5824.986	5725 to 5850	Pass
			-30	120	5824.986	5725 to 5850	Pass
			-20	120	5824.986	5725 to 5850	Pass
			-10	120	5824.986	5725 to 5850	Pass
			0	120	5824.986	5725 to 5850	Pass
			10	120	5824.986	5725 to 5850	Pass
			30	120	5824.986	5725 to 5850	Pass
			40	120	5824.986	5725 to 5850	Pass
			50	120	5824.987	5725 to 5850	Pass
		5755	20	102	5754.987	5725 to 5850	Pass
				120	5754.987	5725 to 5850	Pass
				138	5754.987	5725 to 5850	Pass
			-30	120	5754.987	5725 to 5850	Pass
			-20	120	5754.987	5725 to 5850	Pass
			-10	120	5754.987	5725 to 5850	Pass
			0	120	5754.987	5725 to 5850	Pass
			10	120	5754.987	5725 to 5850	Pass
			30	120	5754.987	5725 to 5850	Pass
			40	120	5754.987	5725 to 5850	Pass
			50	120	5754.987	5725 to 5850	Pass
		5795	20	102	5794.987	5725 to 5850	Pass
				120	5794.986	5725 to 5850	Pass
				138	5794.987	5725 to 5850	Pass
			-30	120	5794.986	5725 to 5850	Pass
			-20	120	5794.986	5725 to 5850	Pass

FCCID: 2AUARHDY9S

			-10	120	5794.986	5725 to 5850	Pass
			0	120	5794.986	5725 to 5850	Pass
			10	120	5794.986	5725 to 5850	Pass
			30	120	5794.986	5725 to 5850	Pass
			40	120	5794.986	5725 to 5850	Pass
			50	120	5794.986	5725 to 5850	Pass
		5775	20	102	5775.005	5725 to 5850	Pass
				120	5775.006	5725 to 5850	Pass
				138	5775.006	5725 to 5850	Pass
			-30	120	5775.007	5725 to 5850	Pass
			-20	120	5775.007	5725 to 5850	Pass
			-10	120	5775.007	5725 to 5850	Pass
			0	120	5775.007	5725 to 5850	Pass
			10	120	5775.007	5725 to 5850	Pass
			30	120	5775.007	5725 to 5850	Pass
			40	120	5775.007	5725 to 5850	Pass
			50	120	5775.007	5725 to 5850	Pass

5. Form731

5.1 Test Result

5.1.1 Form731

Lower Freq (MHz)	High Freq (MHz)	MAX Power (W)	MAX Power (dBm)
5745	5825	0.0202	13.05
5755	5795	0.0197	12.94
5775	5775	0.0227	13.56