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Annex for 5G Wi-Fi BAND3

Test Report No.: CTL2510146011-WF02

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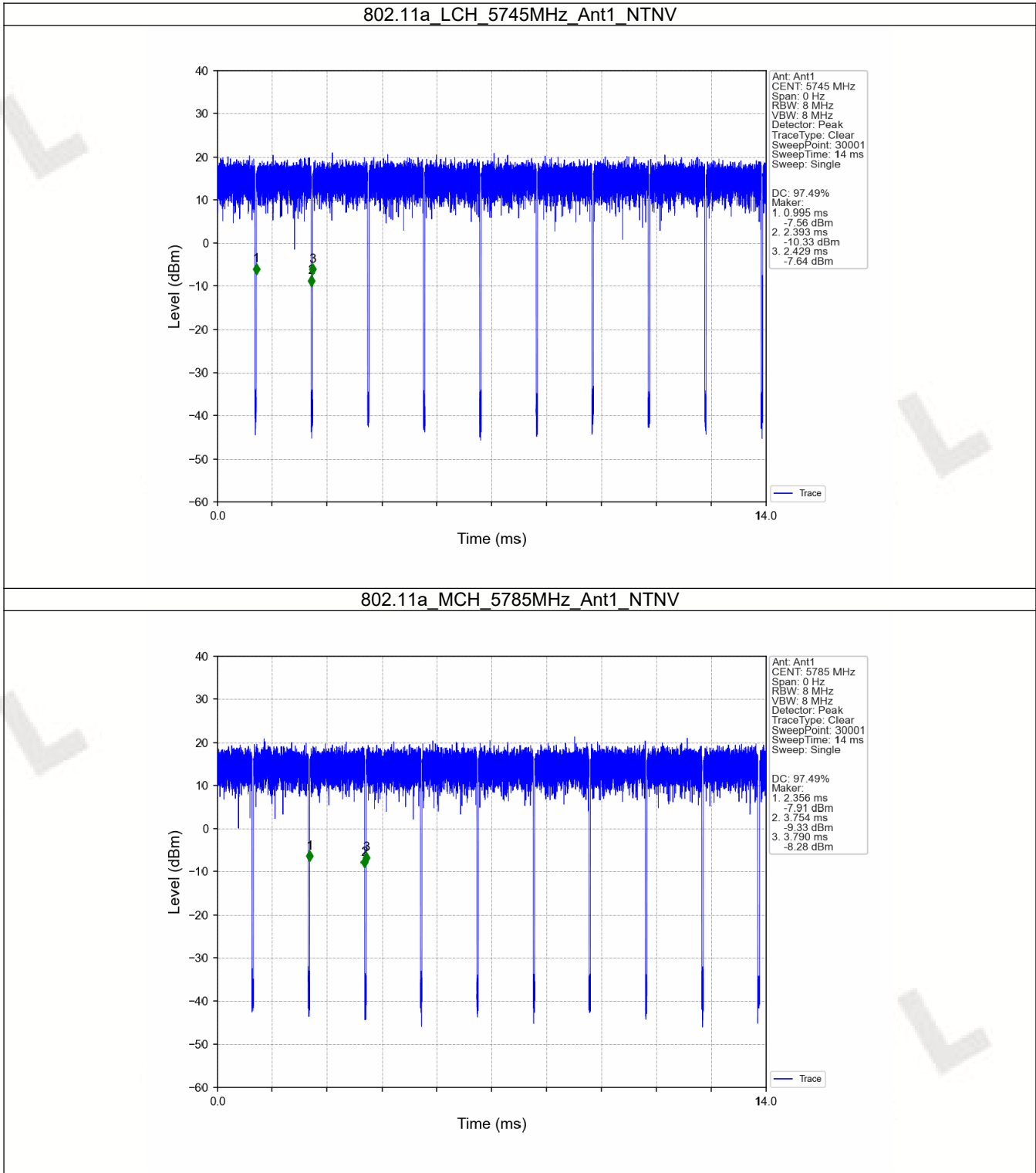
1. Duty Cycle**1.1 Test Result****1.1.1 Ant1**

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	1.398	1.434	97.49	0.11	0.03
		5785	1.398	1.434	97.49	0.11	0.03
		5825	1.398	1.434	97.49	0.11	0.03
802.11n (HT20)	SISO	5745	1.310	1.347	97.25	0.12	0.03
		5785	1.309	1.347	97.18	0.12	0.07
		5825	1.309	1.347	97.18	0.12	0.03
802.11n (HT40)	SISO	5755	0.650	0.686	94.75	0.23	0.03
		5795	0.650	0.686	94.75	0.23	0.03

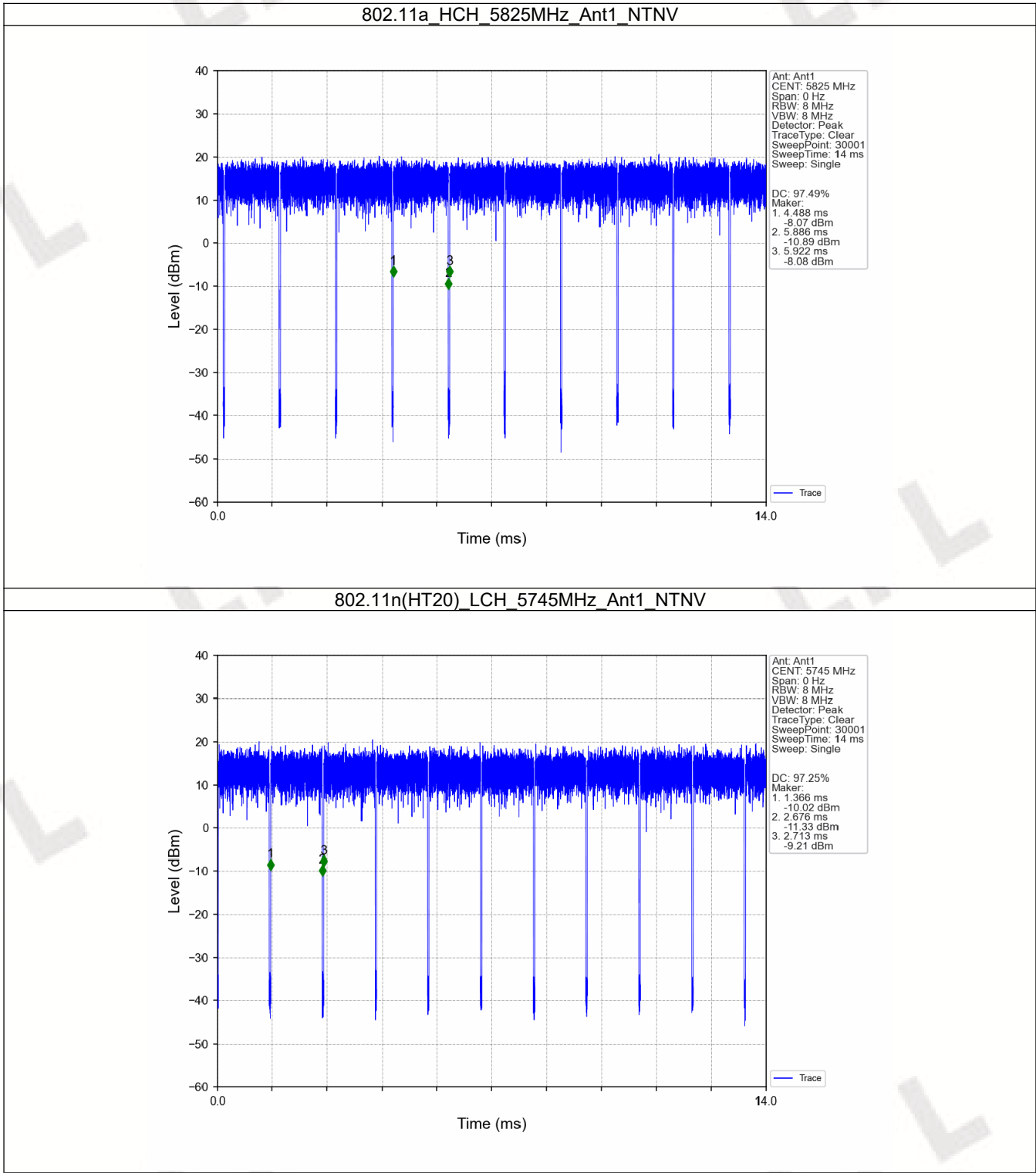
FCCID: SMQUWM5EDAN

1.2 Test Graph

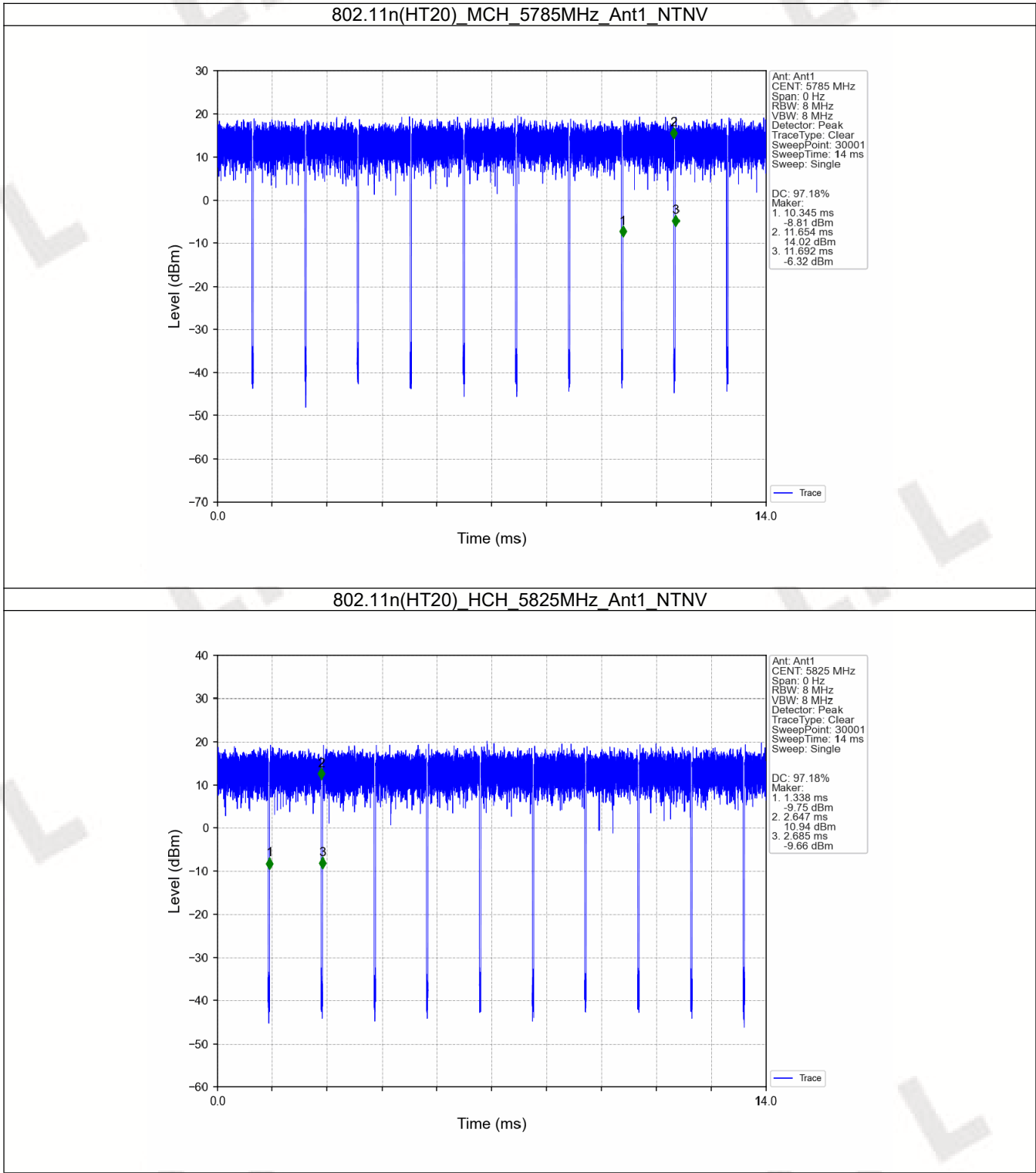
1.2.1 Ant1



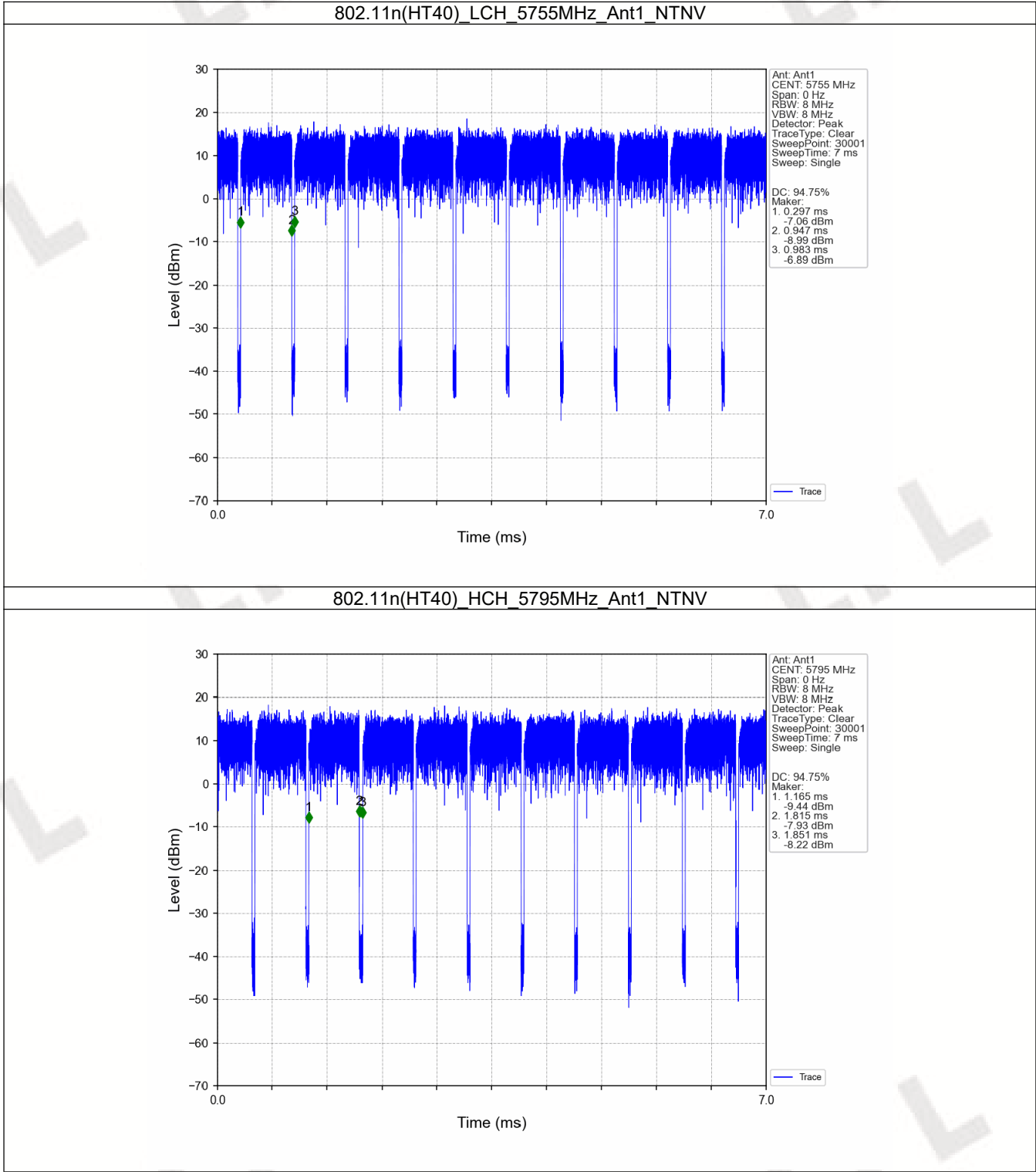
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2. Bandwidth**2.1 Test Result****2.1.1 OBW**

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	17.195	/	Pass
		5785	1	17.112	/	Pass
		5825	1	17.113	/	Pass
802.11n (HT20)	SISO	5745	1	17.828	/	Pass
		5785	1	17.860	/	Pass
		5825	1	17.803	/	Pass
802.11n (HT40)	SISO	5755	1	36.368	/	Pass
		5795	1	36.428	/	Pass

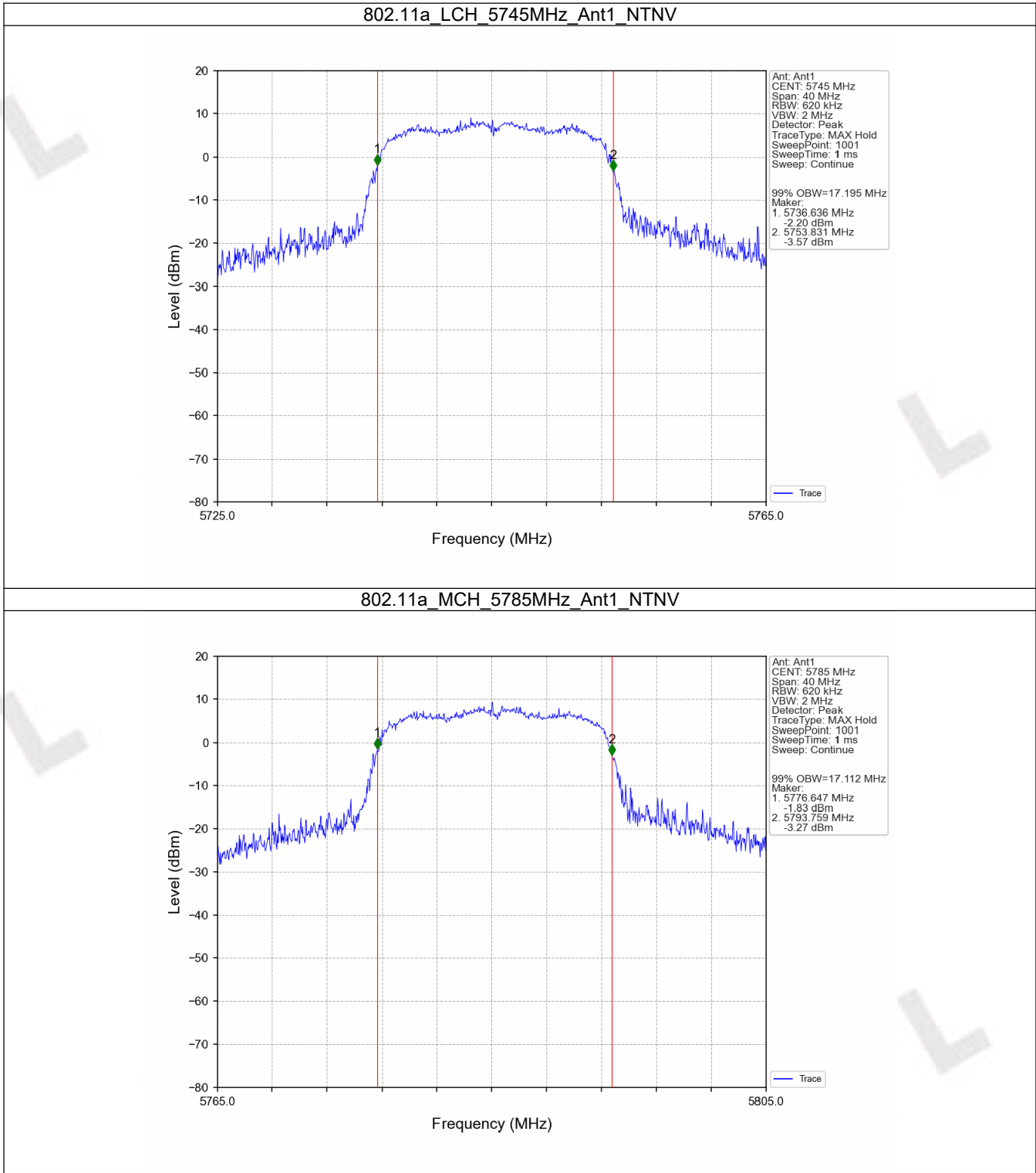
2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	15.159	≥ 0.5	Pass
		5785	1	15.479	≥ 0.5	Pass
		5825	1	14.210	≥ 0.5	Pass
802.11n (HT20)	SISO	5745	1	14.152	≥ 0.5	Pass
		5785	1	14.242	≥ 0.5	Pass
		5825	1	14.189	≥ 0.5	Pass
802.11n (HT40)	SISO	5755	1	35.125	≥ 0.5	Pass
		5795	1	33.824	≥ 0.5	Pass

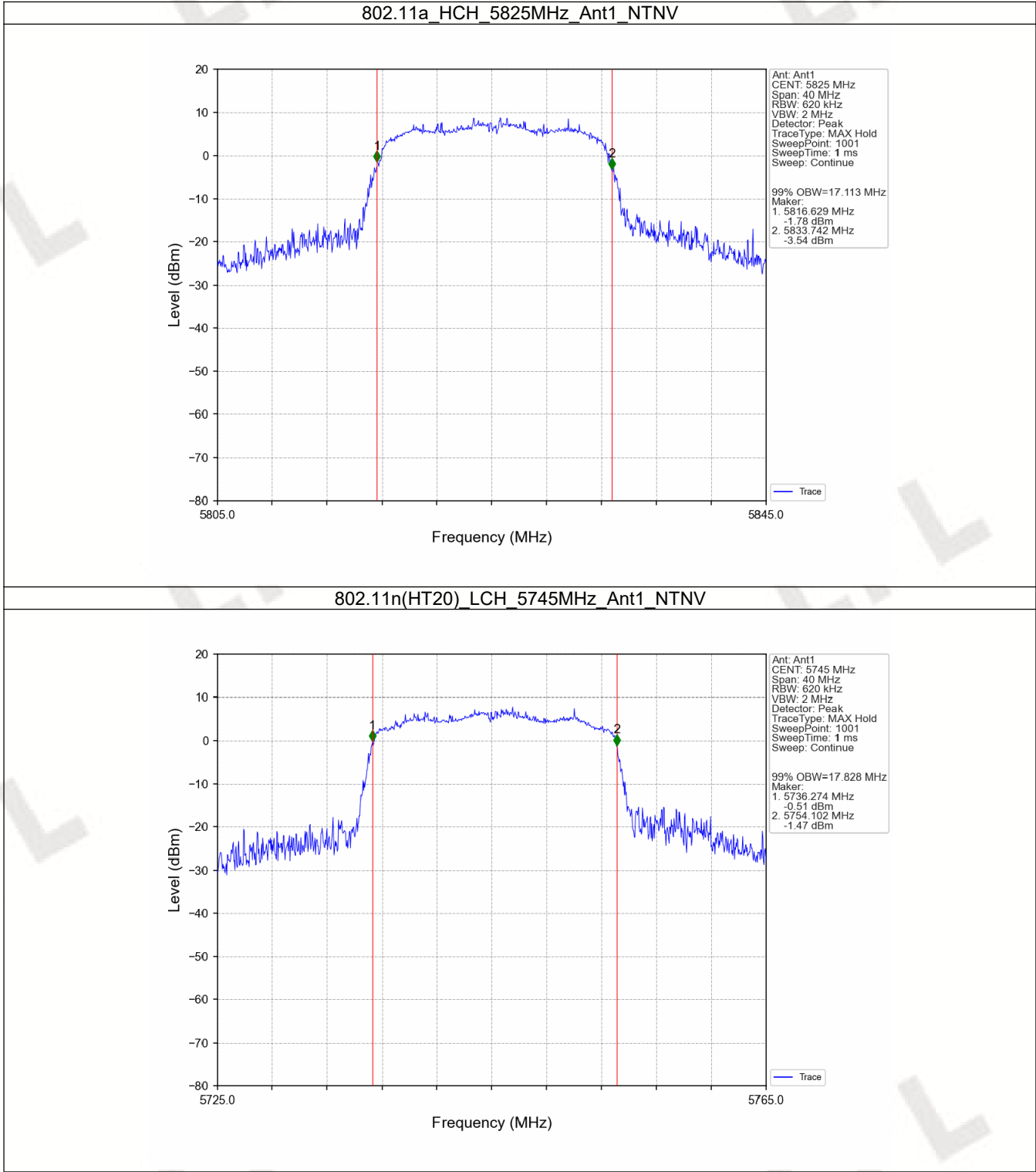
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2.2 Test Graph

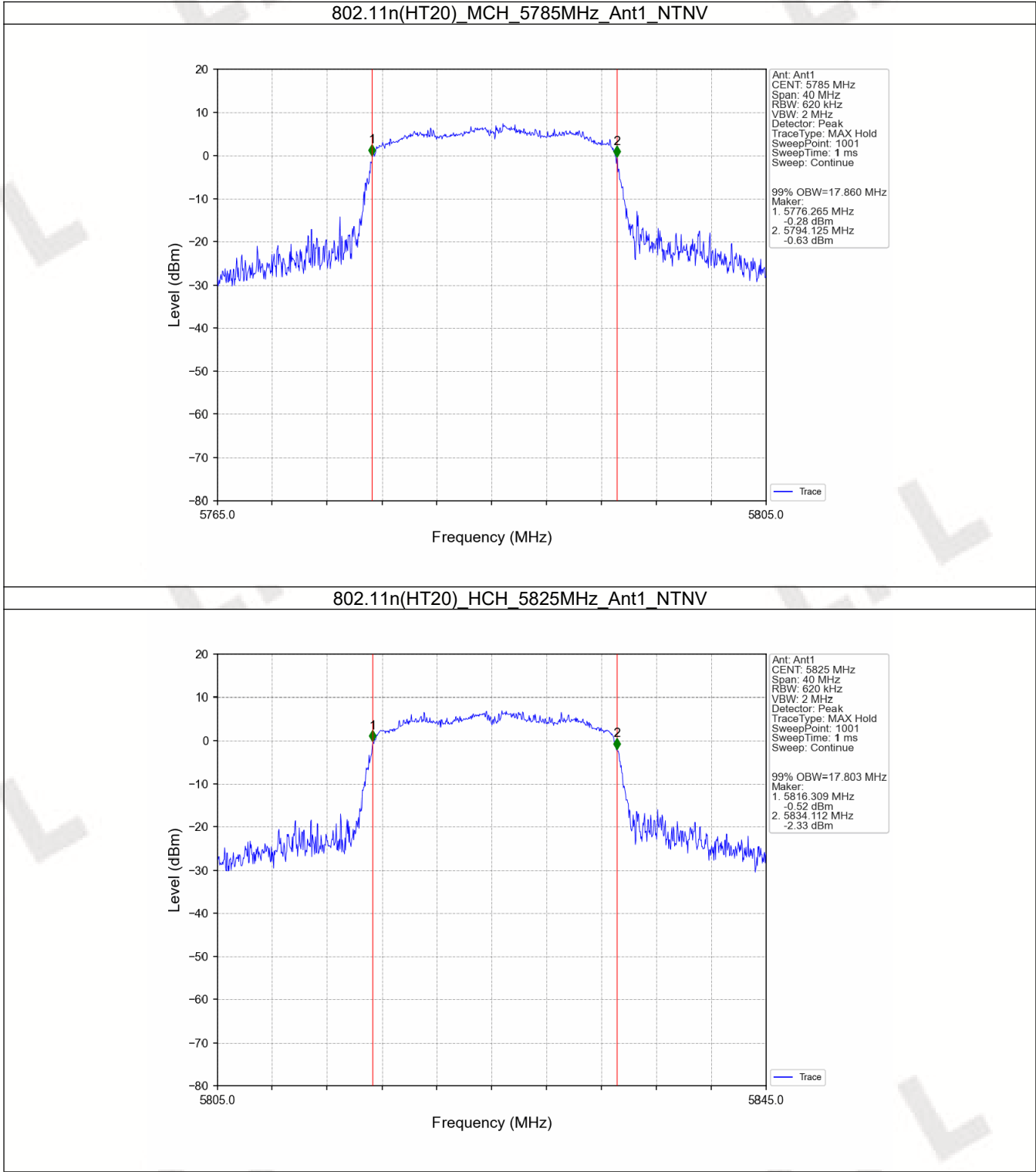
2.2.1 OBW



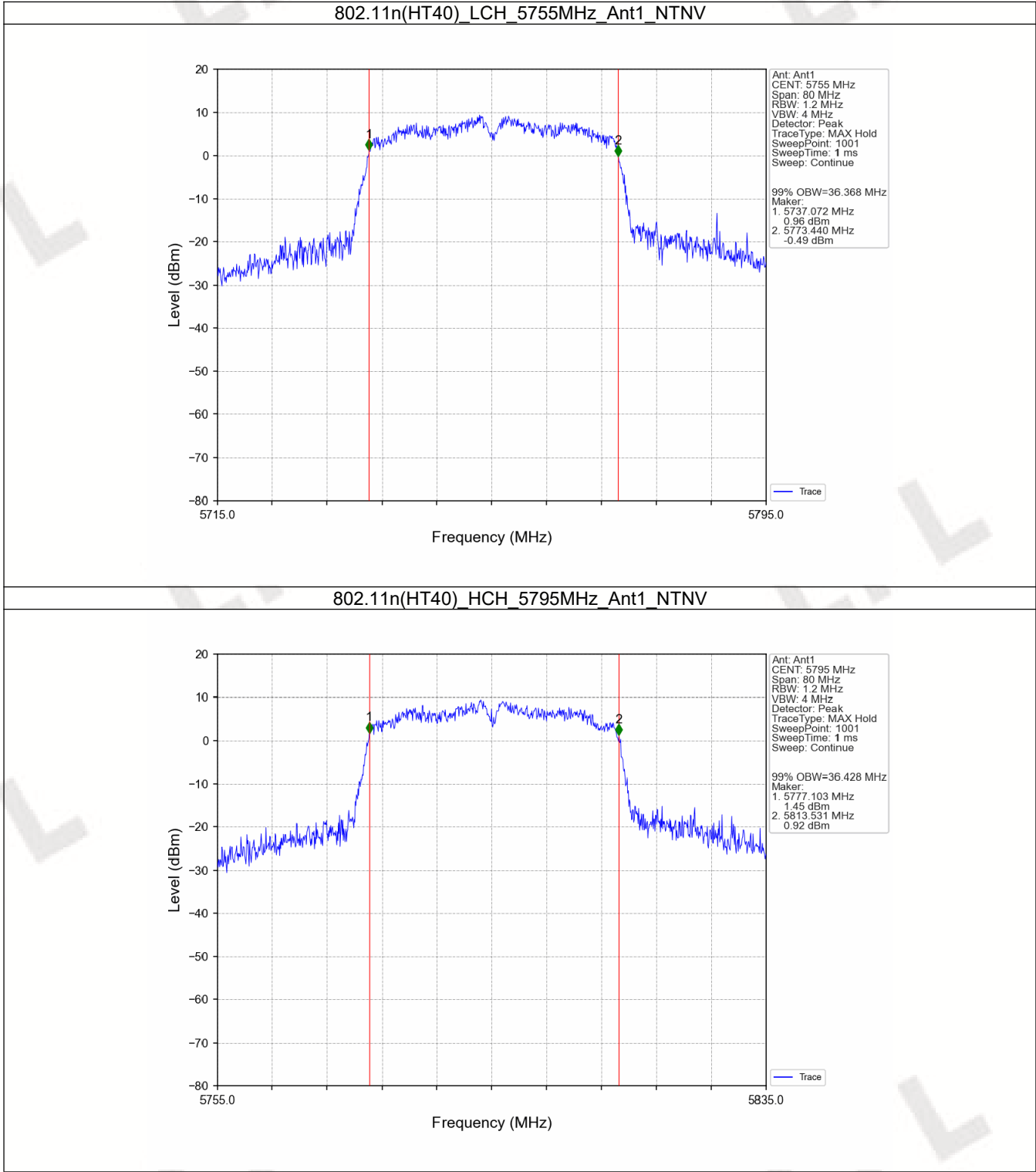
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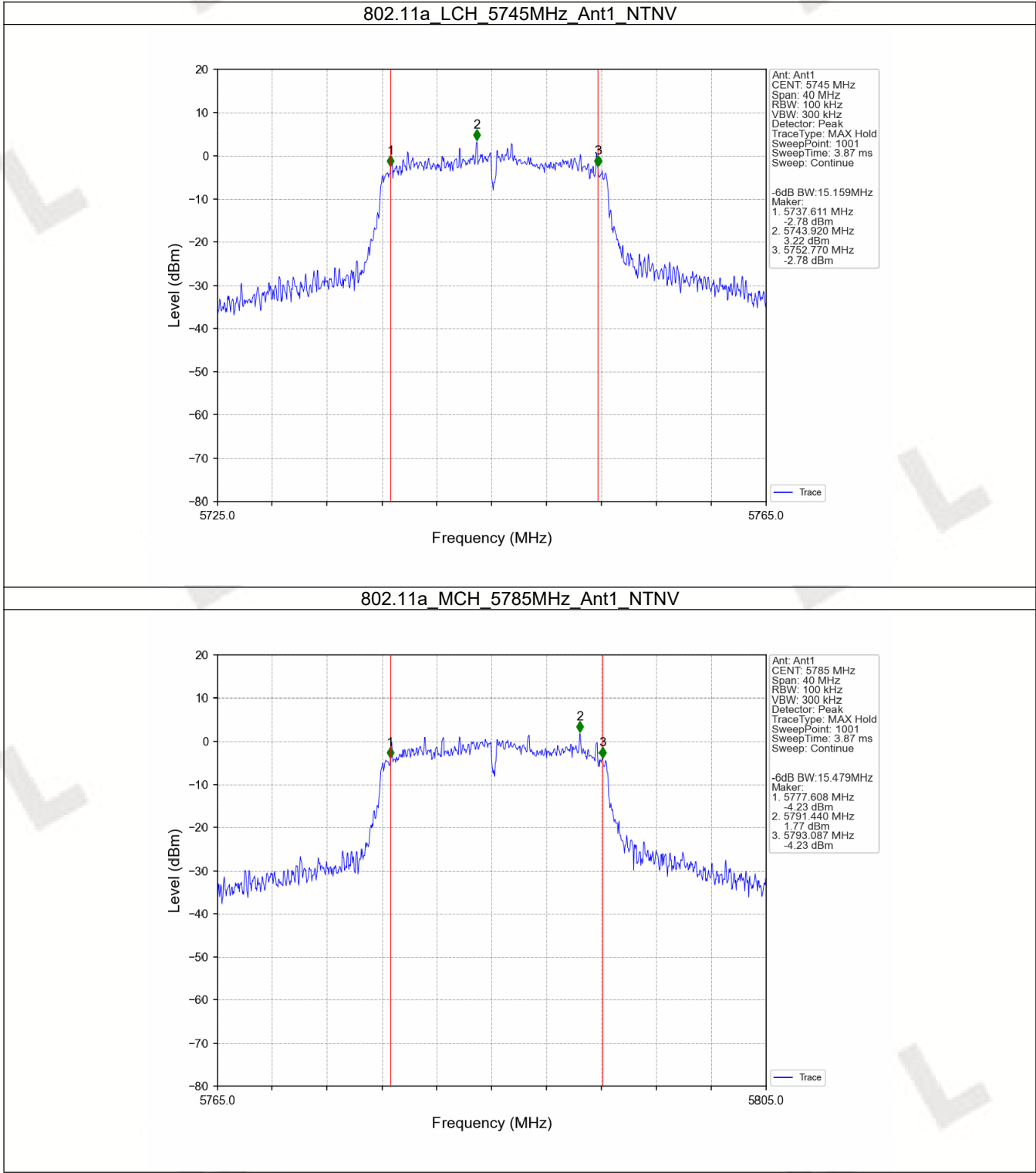


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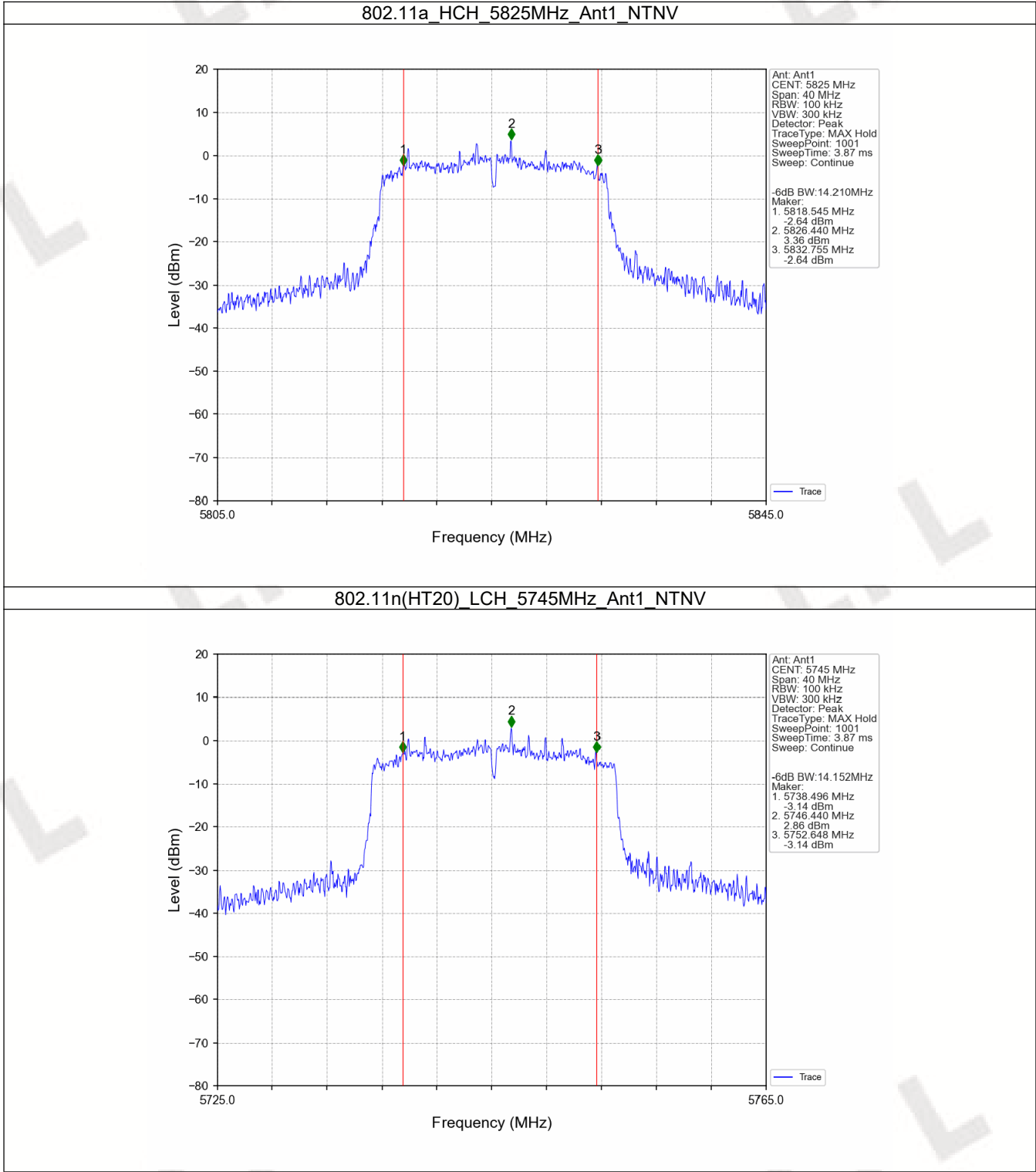


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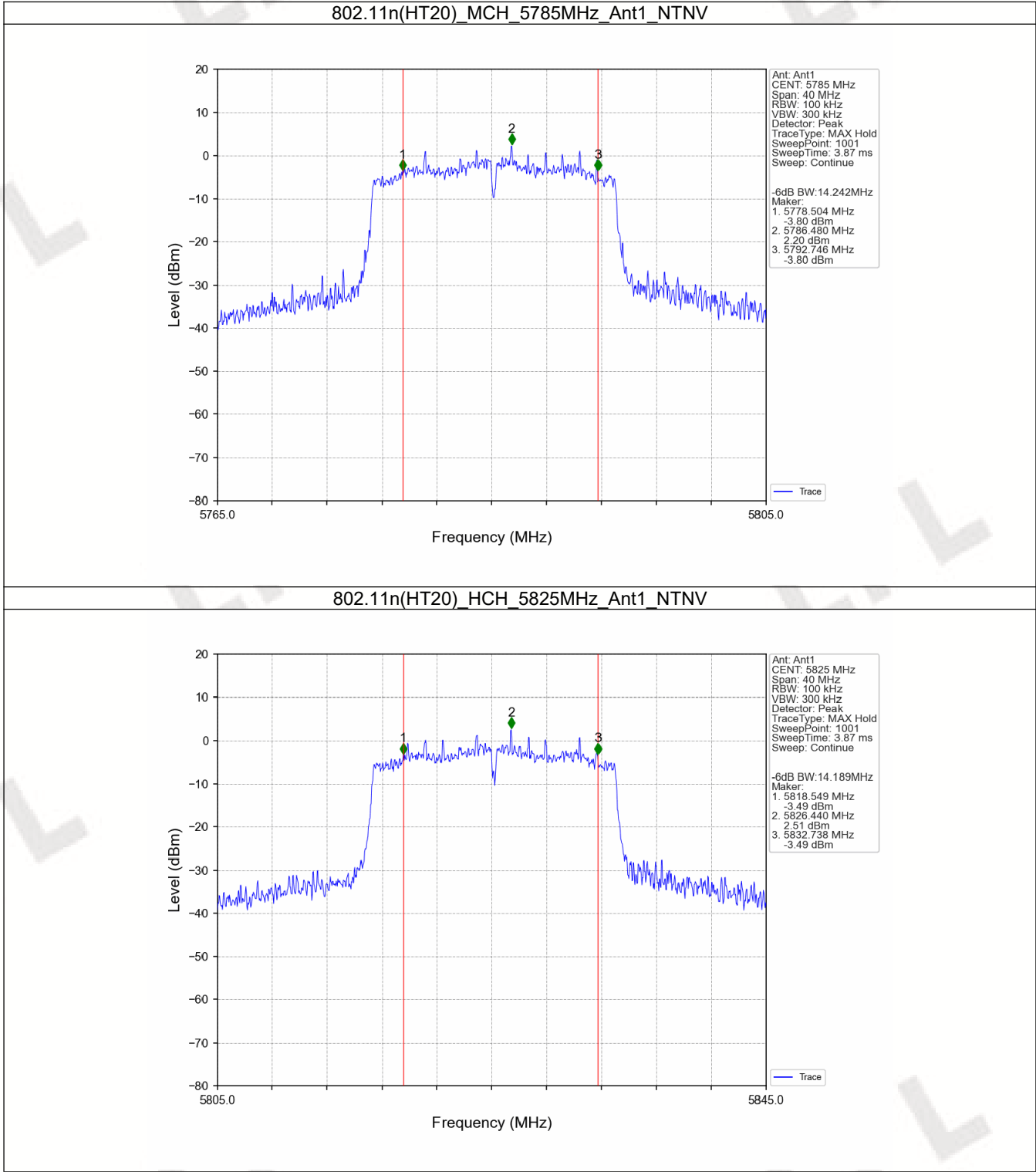
2.2.2 6dB BW



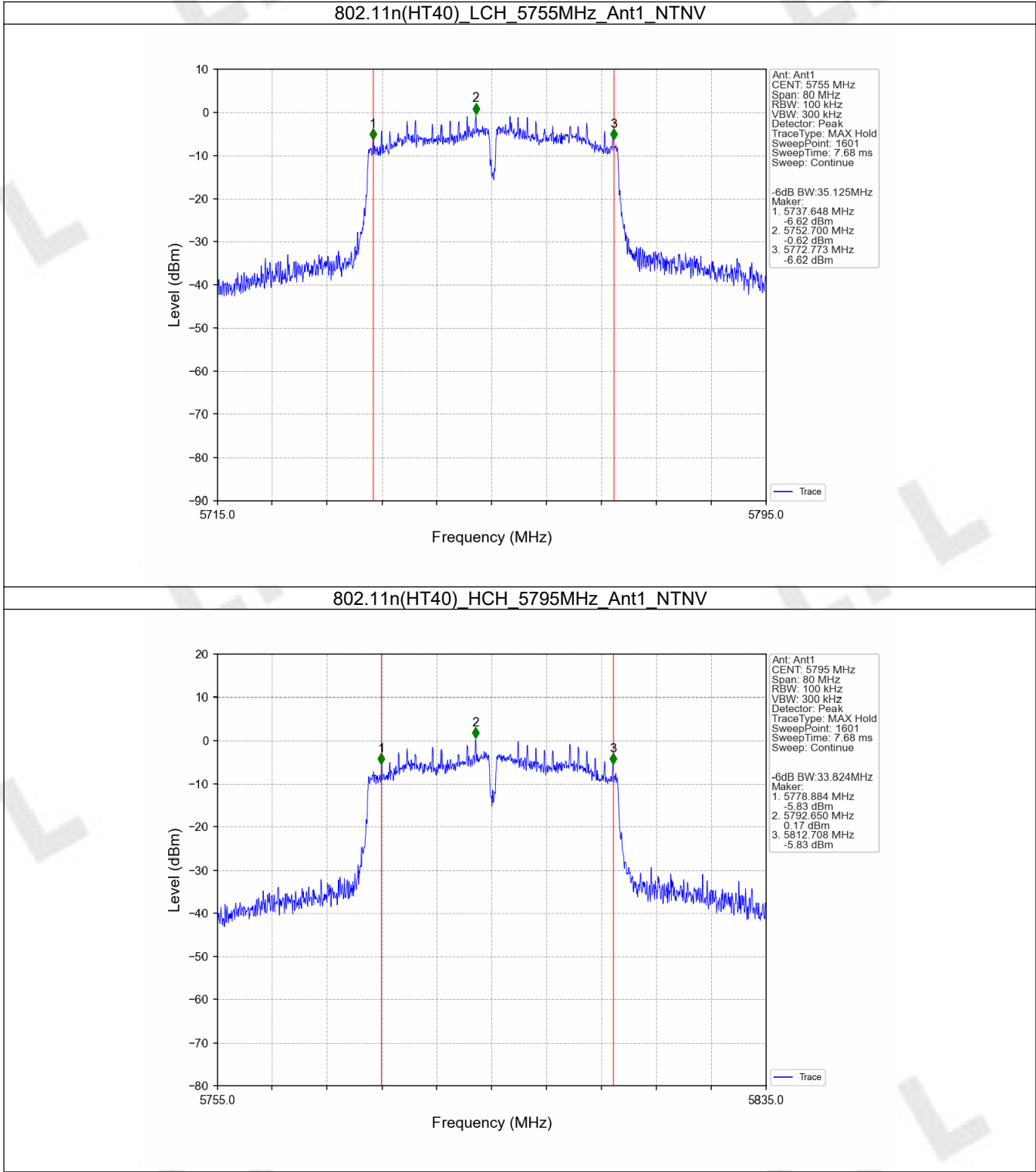
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3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

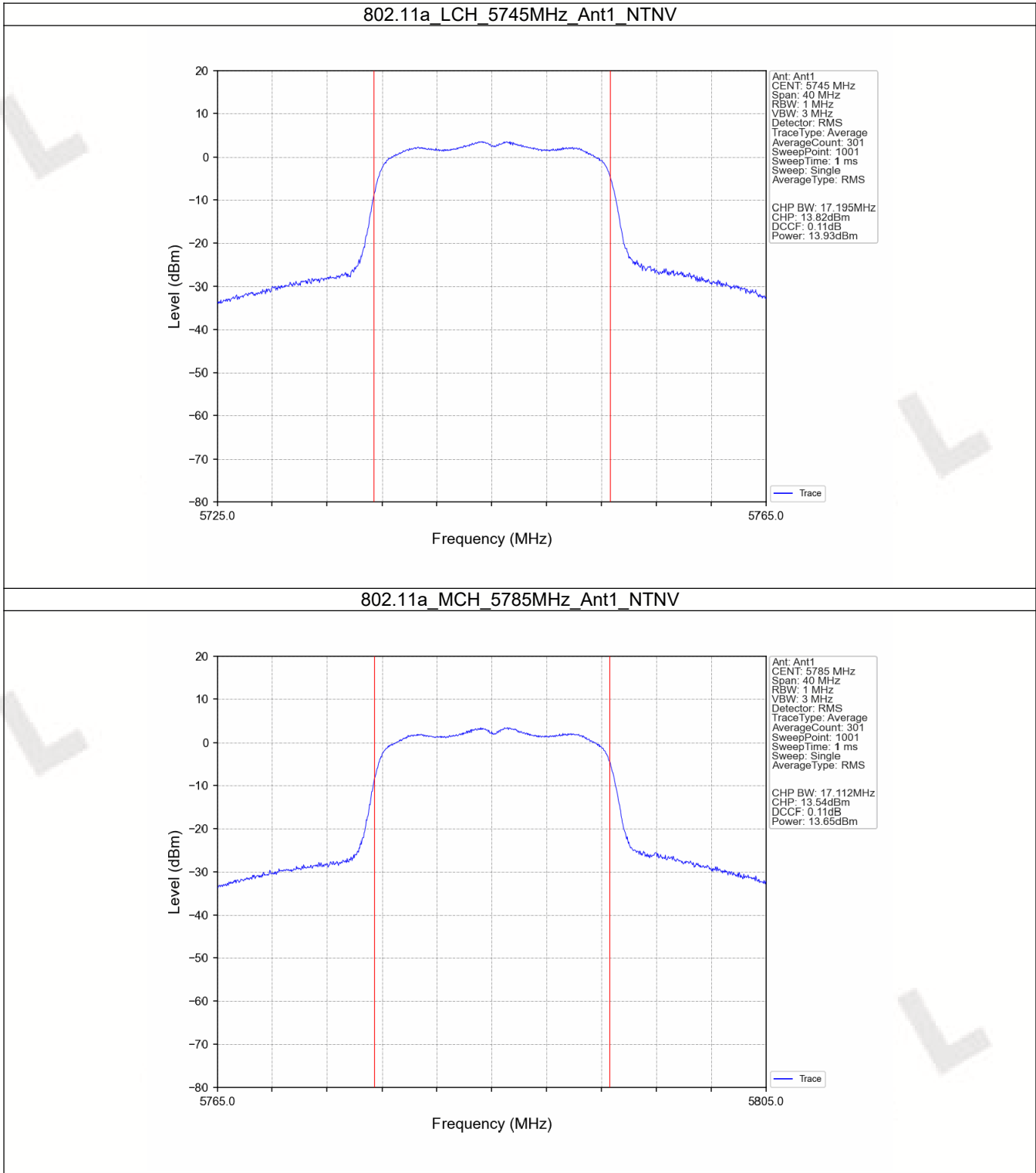
Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11a	SISO	5745	13.93	<=30	Pass
		5785	13.65	<=30	Pass
		5825	13.47	<=30	Pass
802.11n (HT20)	SISO	5745	12.84	<=30	Pass
		5785	12.66	<=30	Pass
		5825	12.41	<=30	Pass
802.11n (HT40)	SISO	5755	13.21	<=30	Pass
		5795	13.16	<=30	Pass

Note1: Antenna Gain: Ant1: 1.28dBi;

FCCID: SMQUWM5EDAN

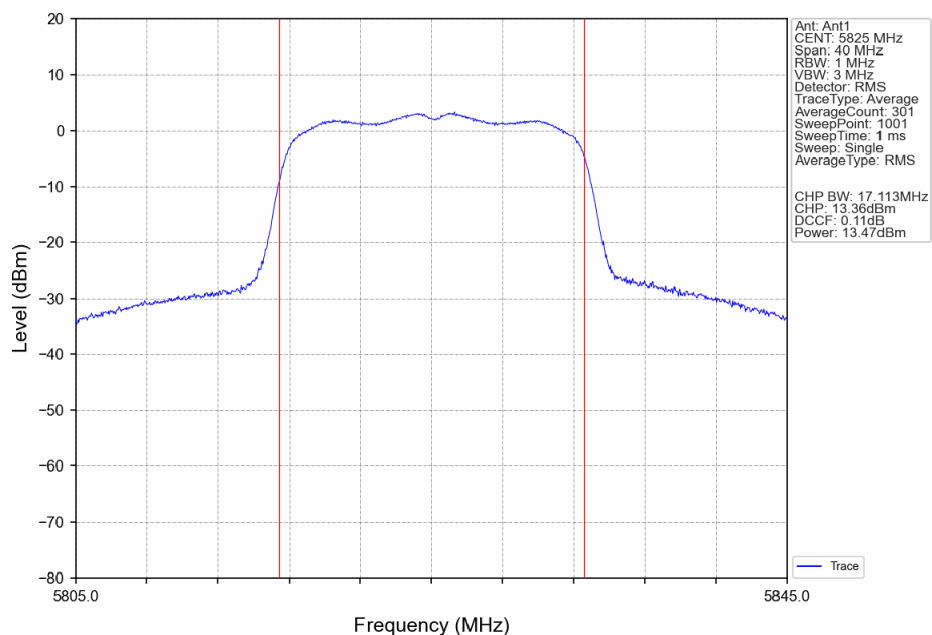
3.2 Test Graph

3.2.1 Power

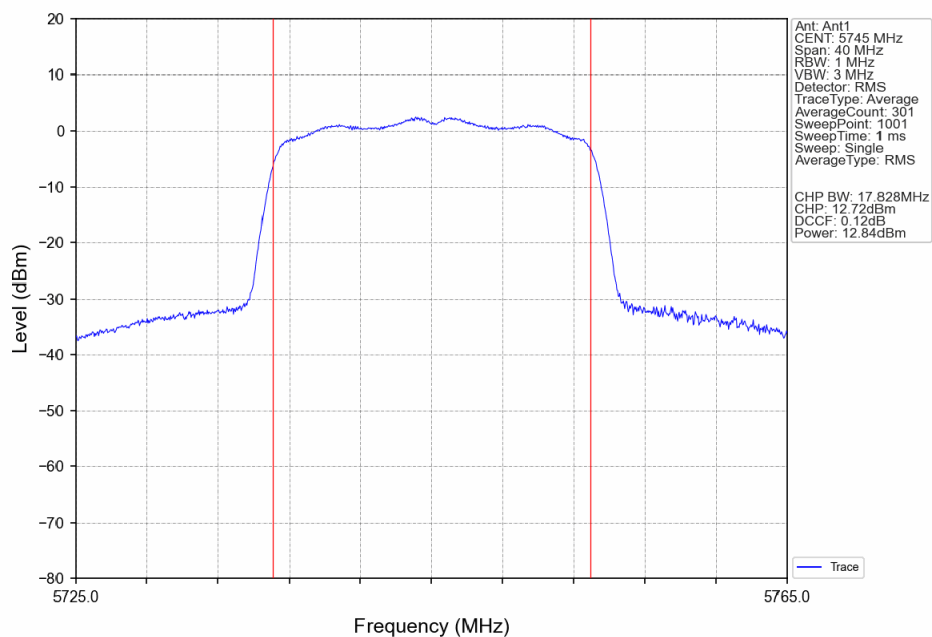


FCCID: SMQUWM5EDAN

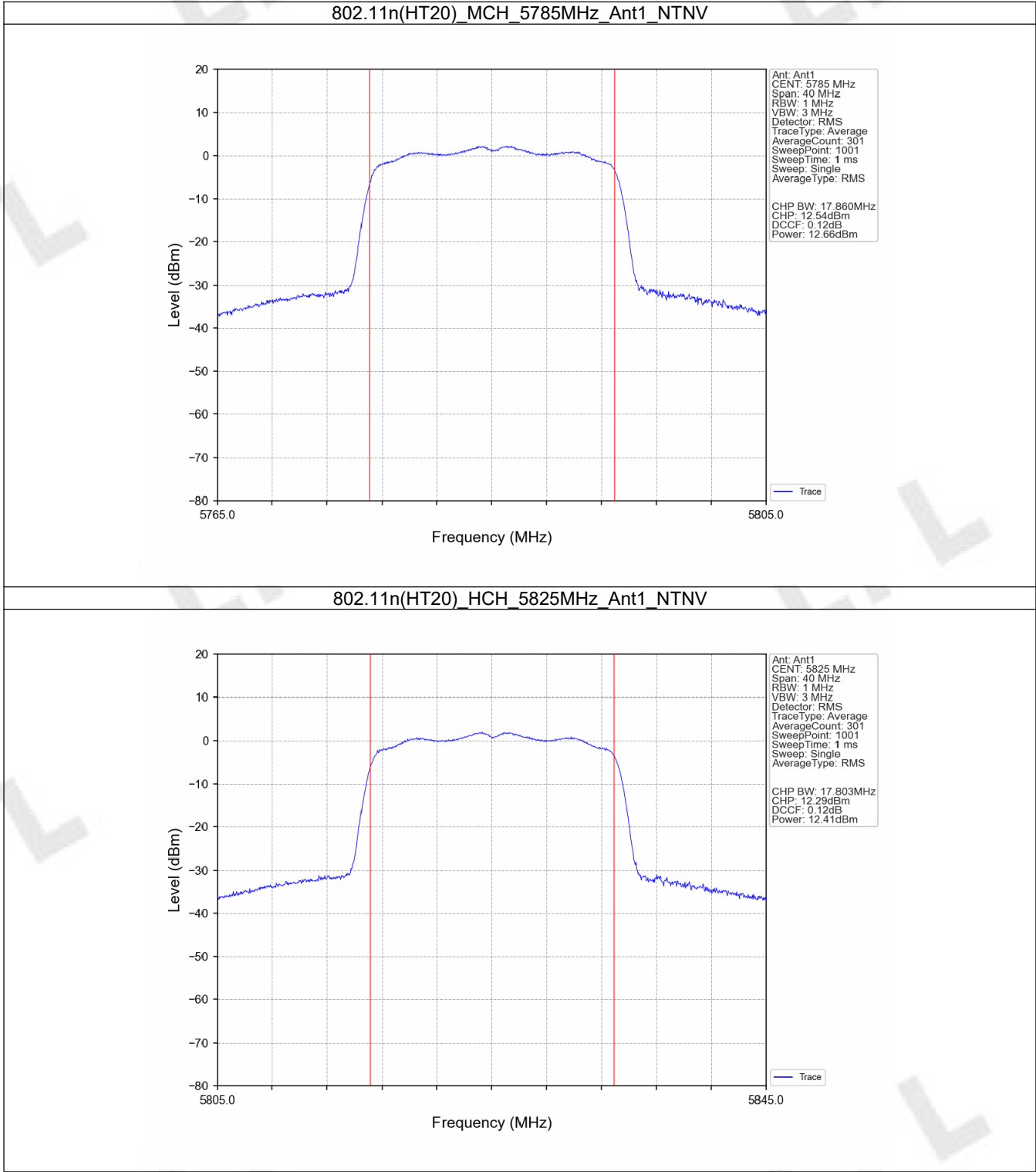
802.11a_HCH_5825MHz_Ant1_NTNV



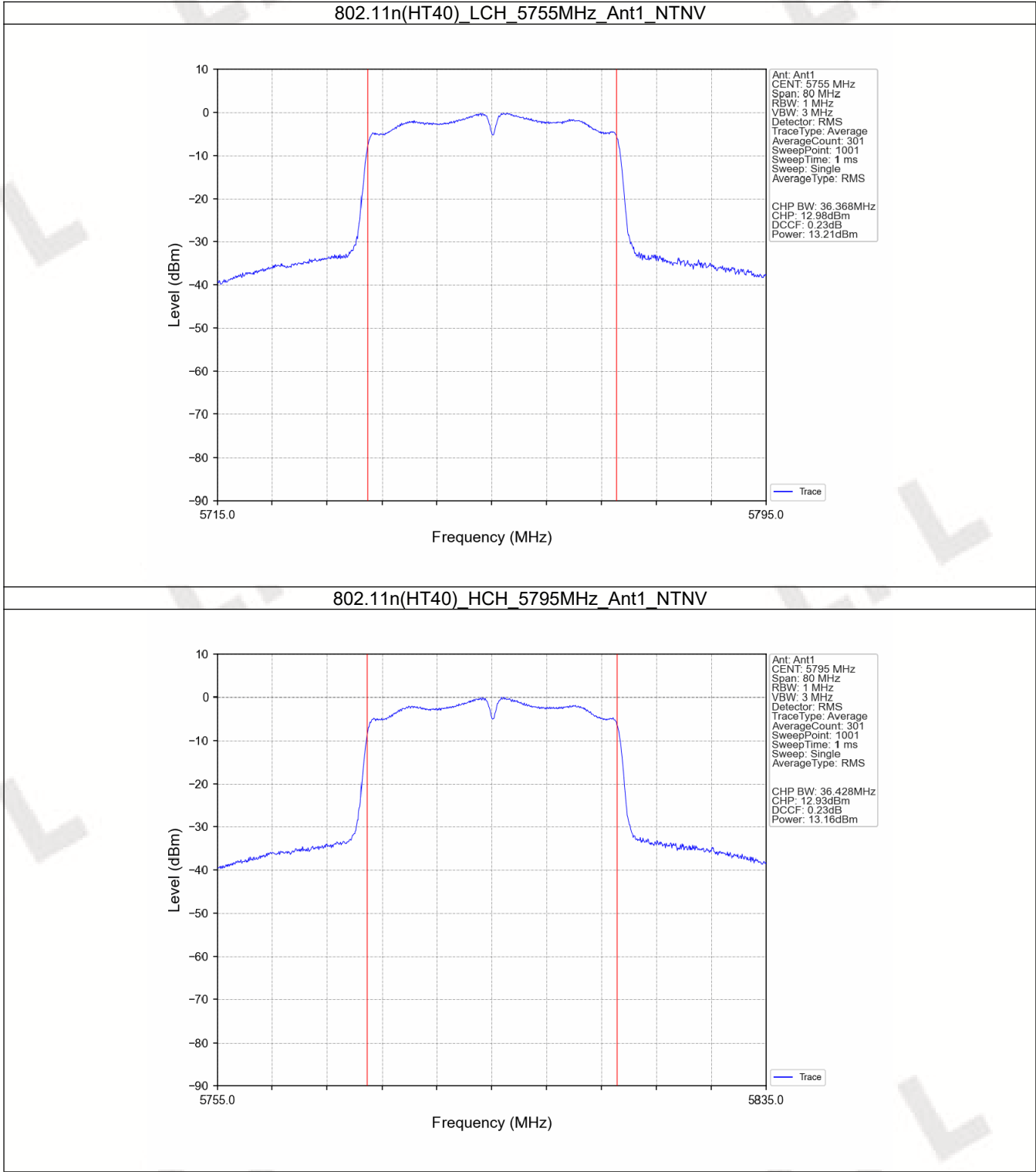
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



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4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD-Band3

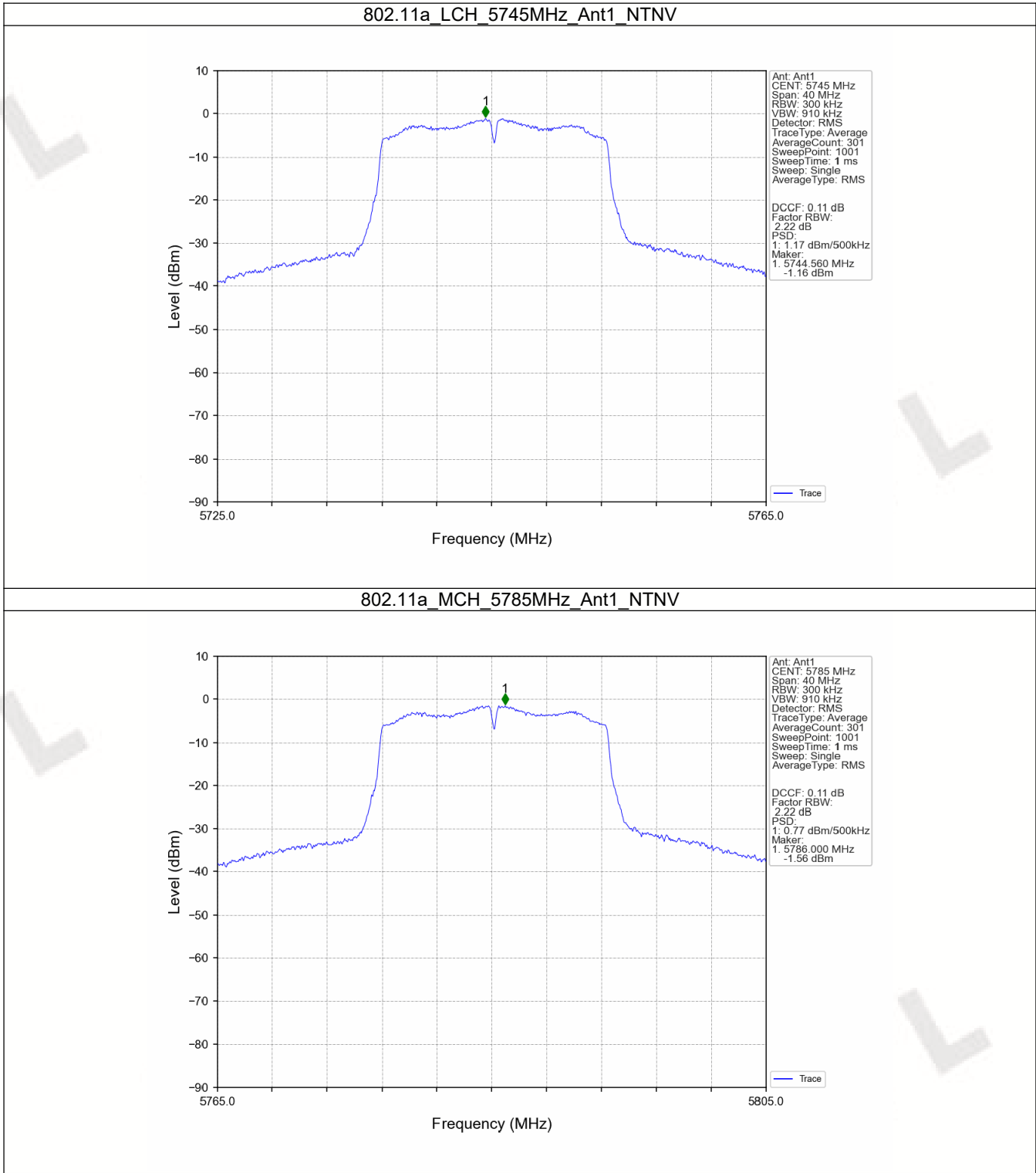
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5745	1.17	<=30	Pass
		5785	0.77	<=30	Pass
		5825	0.69	<=30	Pass
802.11n (HT20)	SISO	5745	-0.06	<=30	Pass
		5785	-0.36	<=30	Pass
		5825	-0.68	<=30	Pass
802.11n (HT40)	SISO	5755	-2.70	<=30	Pass
		5795	-2.73	<=30	Pass

Note1: Antenna Gain: Ant1: 1.28dBi;

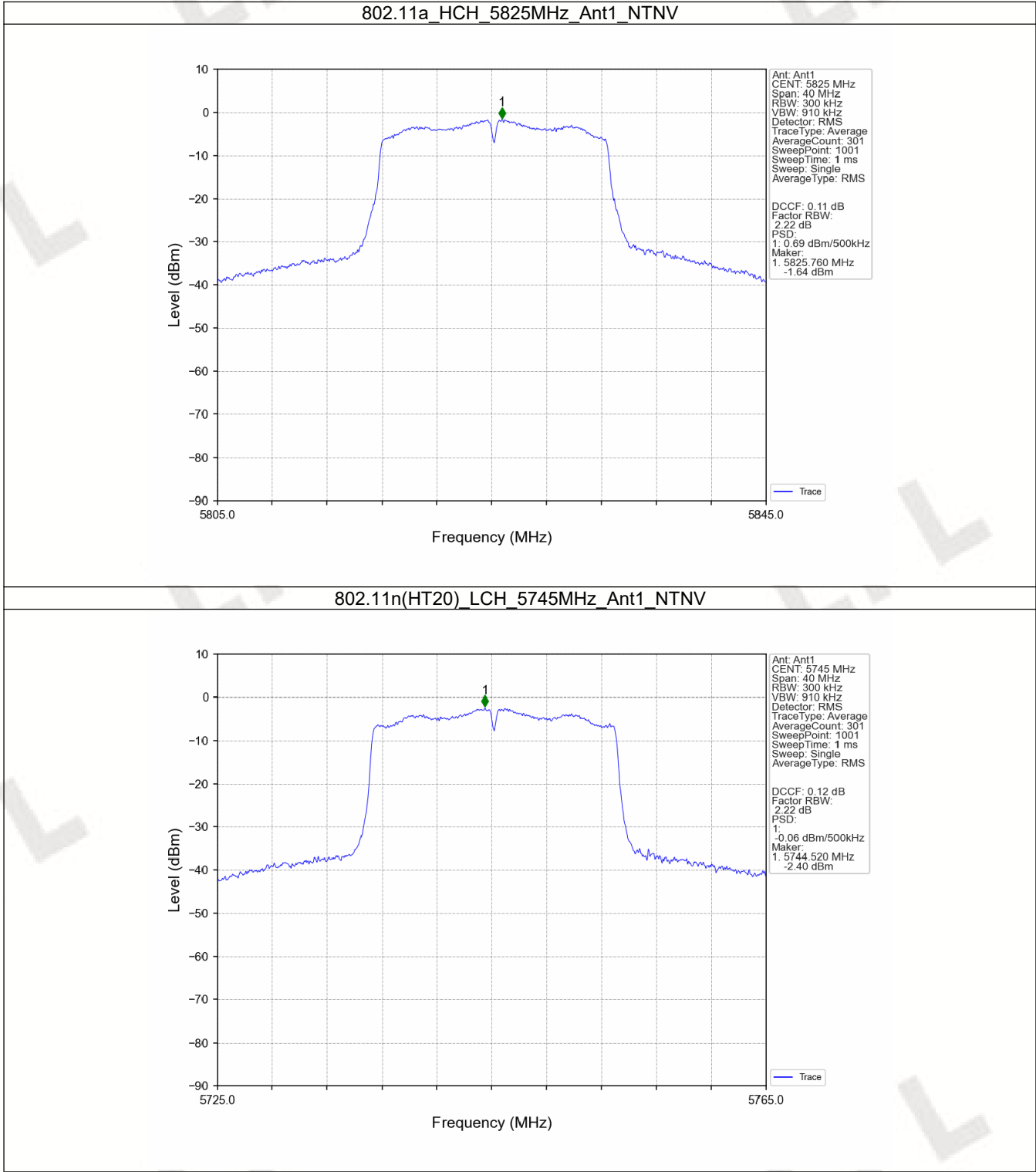
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4.2 Test Graph

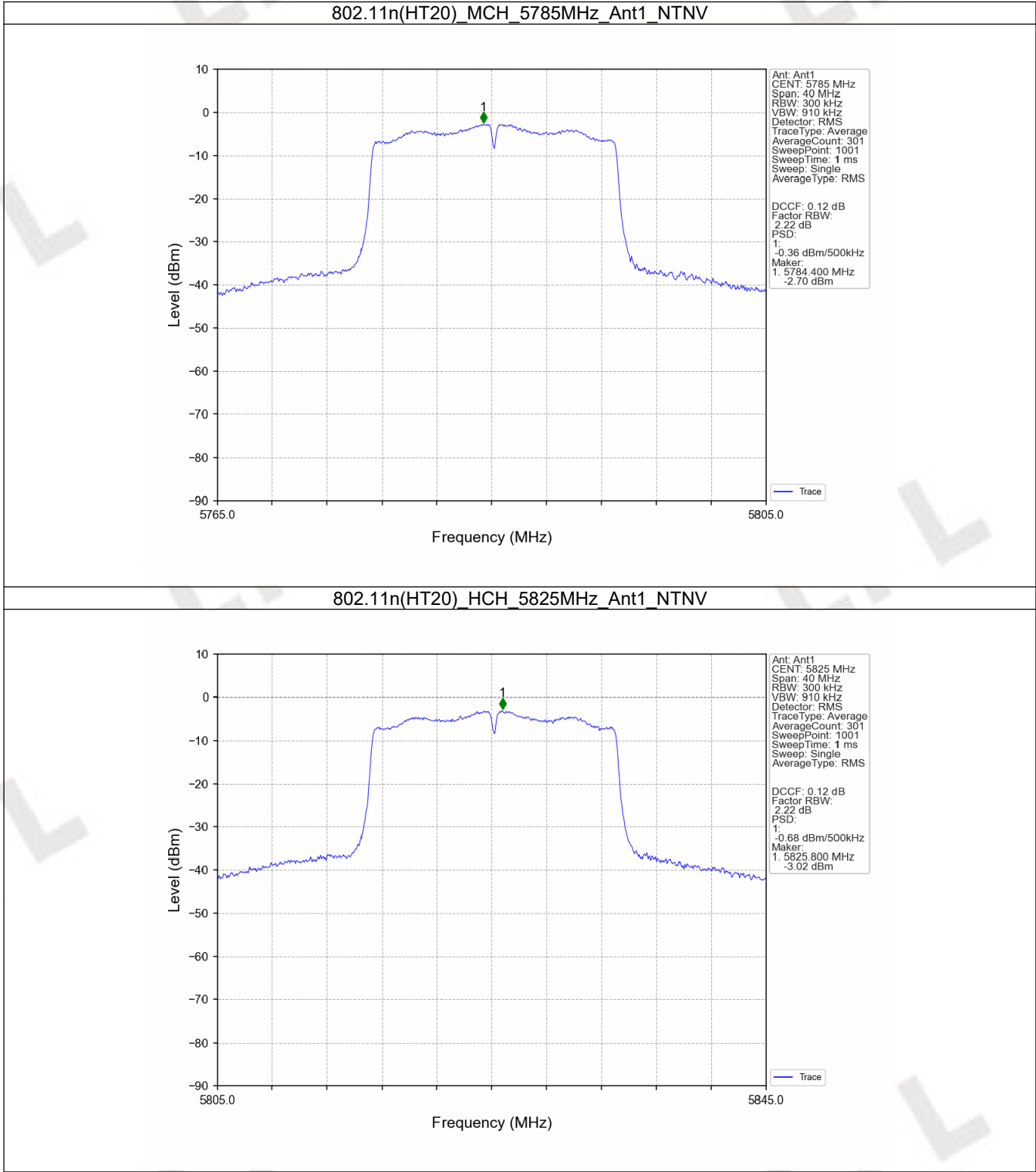
4.2.1 PSD-Band3



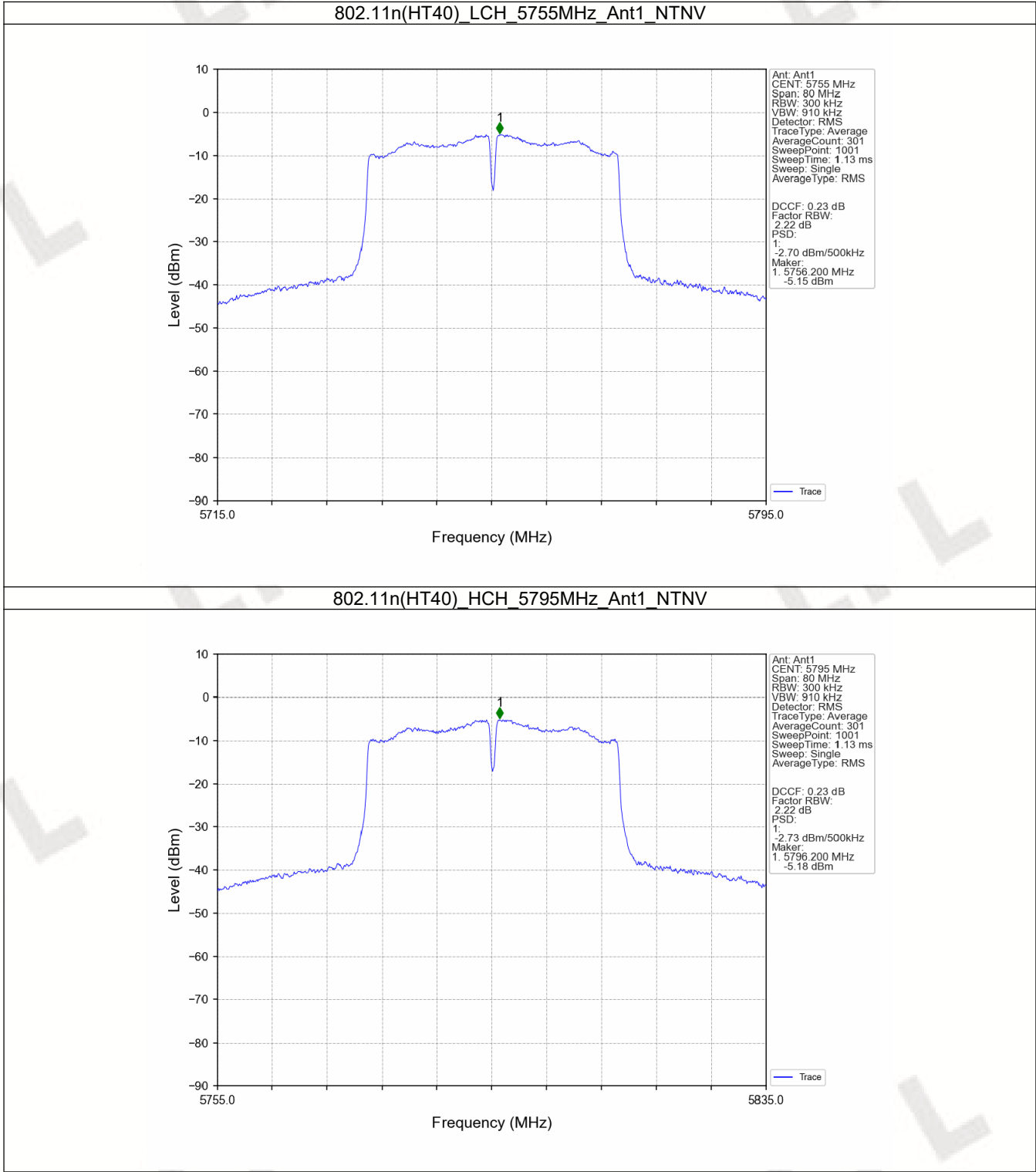
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FCCID: SMQUWM5EDAN



FCCID: SMQUWM5EDAN

5. Frequency Stability**5.1 Test Result****5.1.1 Ant1**

Ant1							
Mode	Tx Type	Frequency (MHz)	Temperature (°C)	Voltage (VAC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
Carrier Wave	SISO	5745	20	102	5745.170	5725 to 5850	Pass
				120	5745.170	5725 to 5850	Pass
				138	5745.170	5725 to 5850	Pass
			-30	120	5745.170	5725 to 5850	Pass
			-20	120	5745.170	5725 to 5850	Pass
			-10	120	5745.170	5725 to 5850	Pass
			0	120	5745.170	5725 to 5850	Pass
			10	120	5745.170	5725 to 5850	Pass
			30	120	5745.170	5725 to 5850	Pass
			40	120	5745.170	5725 to 5850	Pass
			50	120	5745.170	5725 to 5850	Pass
		5785	20	102	5785.171	5725 to 5850	Pass
				120	5785.171	5725 to 5850	Pass
				138	5785.171	5725 to 5850	Pass
			-30	120	5785.171	5725 to 5850	Pass
			-20	120	5785.171	5725 to 5850	Pass
			-10	120	5785.171	5725 to 5850	Pass
			0	120	5785.172	5725 to 5850	Pass
			10	120	5785.171	5725 to 5850	Pass
			30	120	5785.171	5725 to 5850	Pass
			40	120	5785.171	5725 to 5850	Pass
			50	120	5785.171	5725 to 5850	Pass
		5825	20	102	5825.173	5725 to 5850	Pass
				120	5825.173	5725 to 5850	Pass
				138	5825.173	5725 to 5850	Pass
			-30	120	5825.172	5725 to 5850	Pass
			-20	120	5825.172	5725 to 5850	Pass
			-10	120	5825.172	5725 to 5850	Pass
			0	120	5825.172	5725 to 5850	Pass
			10	120	5825.172	5725 to 5850	Pass
			30	120	5825.172	5725 to 5850	Pass
			40	120	5825.172	5725 to 5850	Pass
			50	120	5825.172	5725 to 5850	Pass
		5755	20	102	5755.169	5725 to 5850	Pass
				120	5755.170	5725 to 5850	Pass
				138	5755.170	5725 to 5850	Pass
			-30	120	5755.170	5725 to 5850	Pass
			-20	120	5755.170	5725 to 5850	Pass
			-10	120	5755.170	5725 to 5850	Pass
			0	120	5755.170	5725 to 5850	Pass
			10	120	5755.170	5725 to 5850	Pass
			30	120	5755.170	5725 to 5850	Pass
			40	120	5755.170	5725 to 5850	Pass
			50	120	5755.170	5725 to 5850	Pass
		5795	20	102	5795.171	5725 to 5850	Pass
				120	5795.171	5725 to 5850	Pass
				138	5795.170	5725 to 5850	Pass
			-30	120	5795.171	5725 to 5850	Pass
			-20	120	5795.171	5725 to 5850	Pass

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			-10	120	5795.171	5725 to 5850	Pass
			0	120	5795.171	5725 to 5850	Pass
			10	120	5795.171	5725 to 5850	Pass
			30	120	5795.171	5725 to 5850	Pass
			40	120	5795.171	5725 to 5850	Pass
			50	120	5795.171	5725 to 5850	Pass