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Annex for 5G Wi-Fi BAND 3

Test Report No.: CTL2404222135-WF04

TABLE OF CONTENTS

Annex for 5G Wi-Fi BAND 3	1
1. Bandwidth	2
2. Maximum Conducted Output Power	17
3. Maximum Power Spectral Density	25
4. Frequency Stability	33

FCC ID: 2ASC7TAB702

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	19.071	/	Pass
		5785	1	18.996	/	Pass
		5825	1	19.084	/	Pass
802.11n (HT20)	SISO	5745	1	20.180	/	Pass
		5785	1	20.138	/	Pass
		5825	1	20.193	/	Pass
802.11n (HT40)	SISO	5755	1	38.597	/	Pass
		5795	1	38.323	/	Pass
802.11ac (VHT20)	SISO	5745	1	20.179	/	Pass
		5785	1	20.285	/	Pass
		5825	1	20.309	/	Pass
802.11ac (VHT40)	SISO	5755	1	37.893	/	Pass
		5795	1	37.783	/	Pass

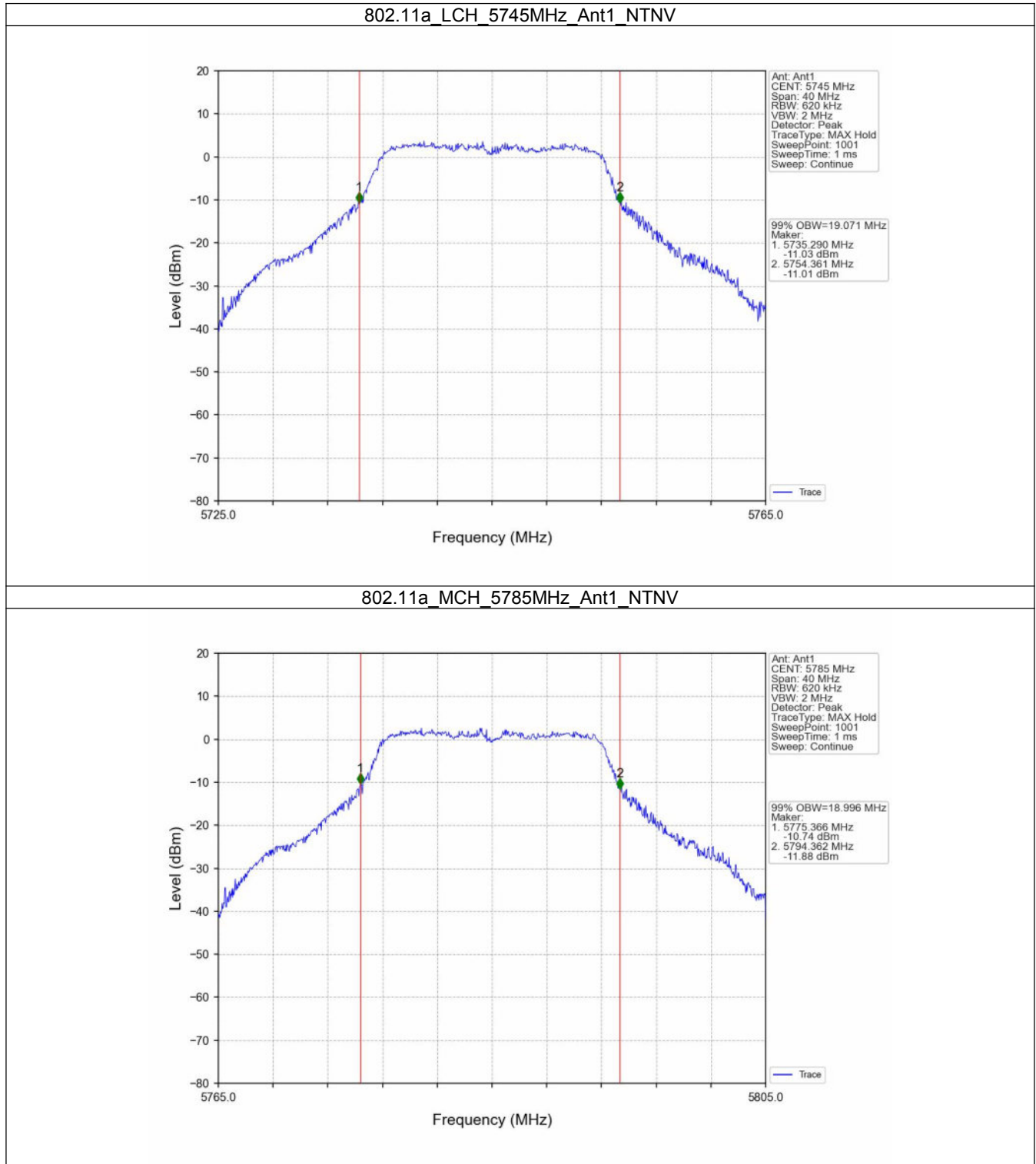
1.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	16.372	>=0.5	Pass
		5785	1	16.371	>=0.5	Pass
		5825	1	16.379	>=0.5	Pass
802.11n (HT20)	SISO	5745	1	17.608	>=0.5	Pass
		5785	1	17.594	>=0.5	Pass
		5825	1	17.613	>=0.5	Pass
802.11n (HT40)	SISO	5755	1	36.381	>=0.5	Pass
		5795	1	36.370	>=0.5	Pass
802.11ac (VHT20)	SISO	5745	1	17.665	>=0.5	Pass
		5785	1	17.679	>=0.5	Pass
		5825	1	17.687	>=0.5	Pass
802.11ac (VHT40)	SISO	5755	1	36.474	>=0.5	Pass
		5795	1	36.501	>=0.5	Pass

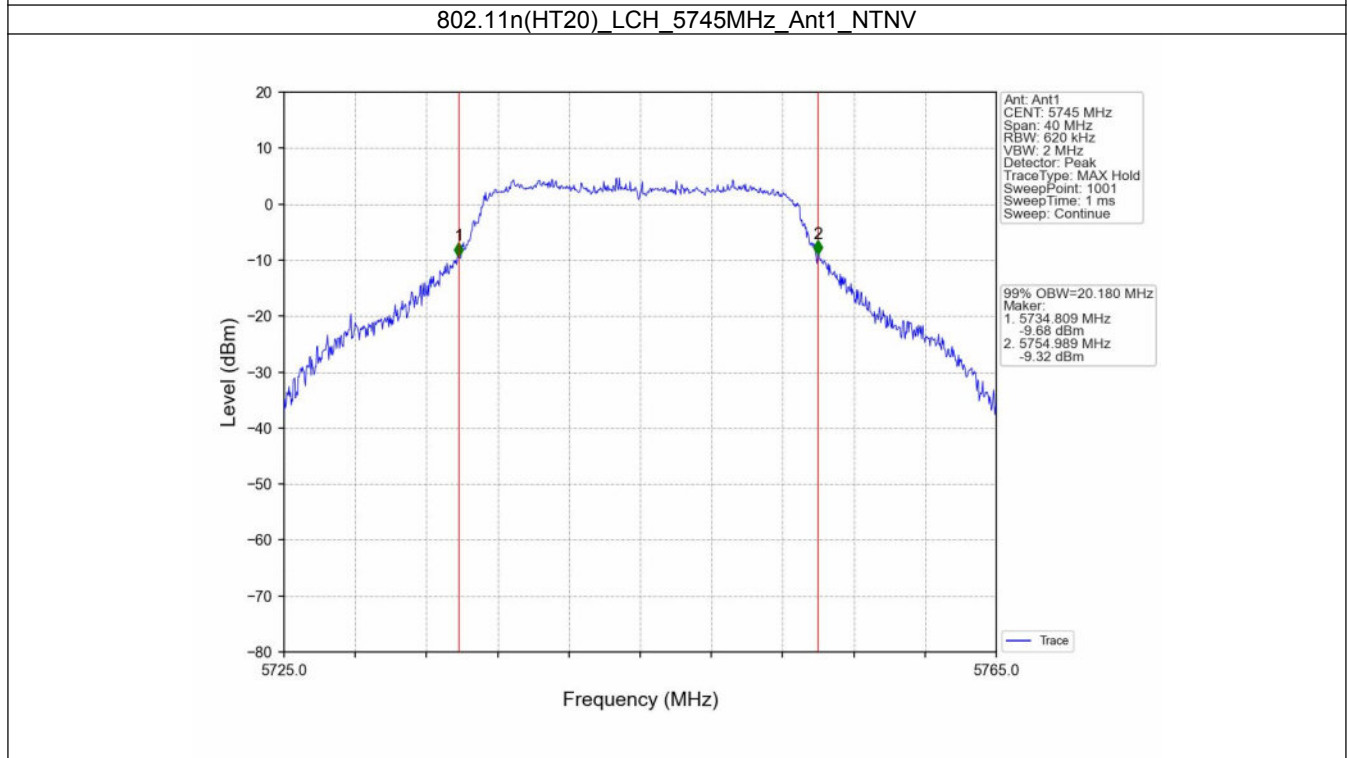
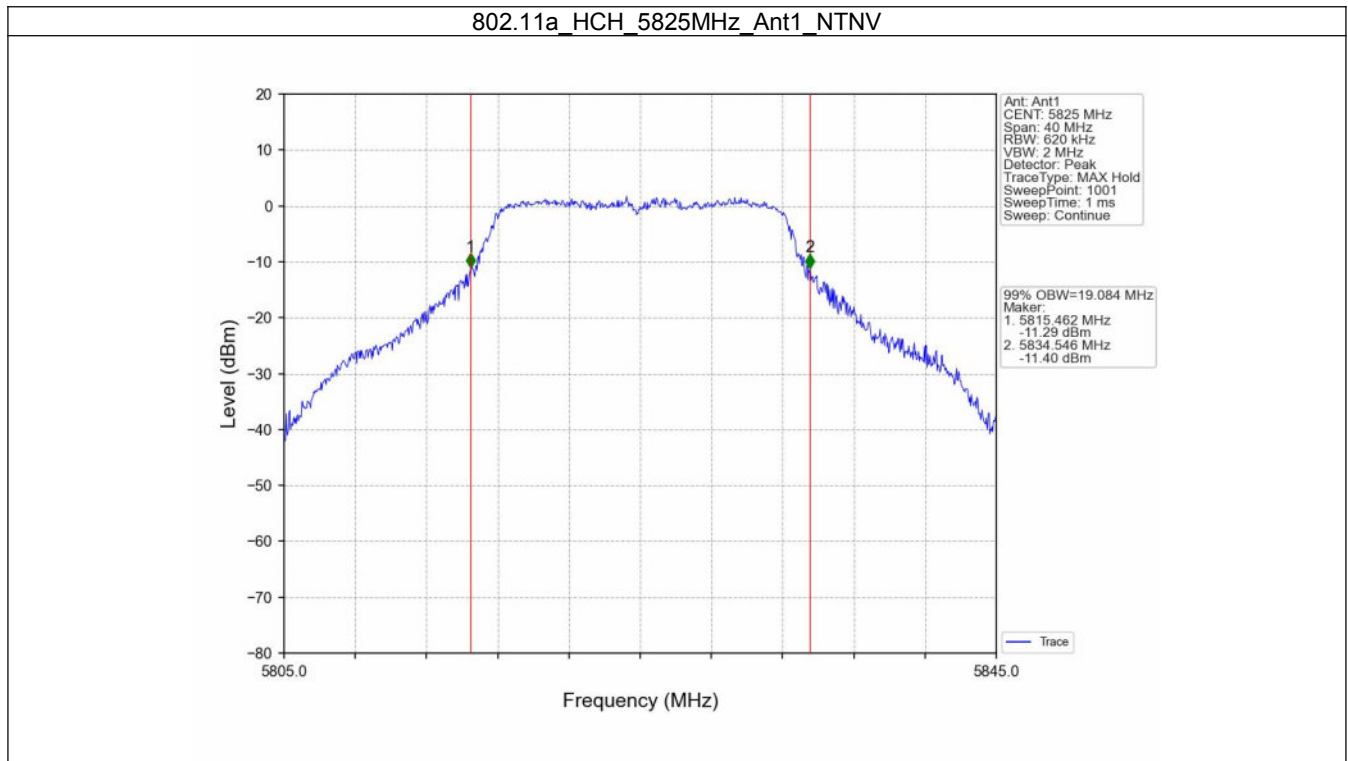
FCC ID: 2ASC7TAB702

1.2 Test Graph

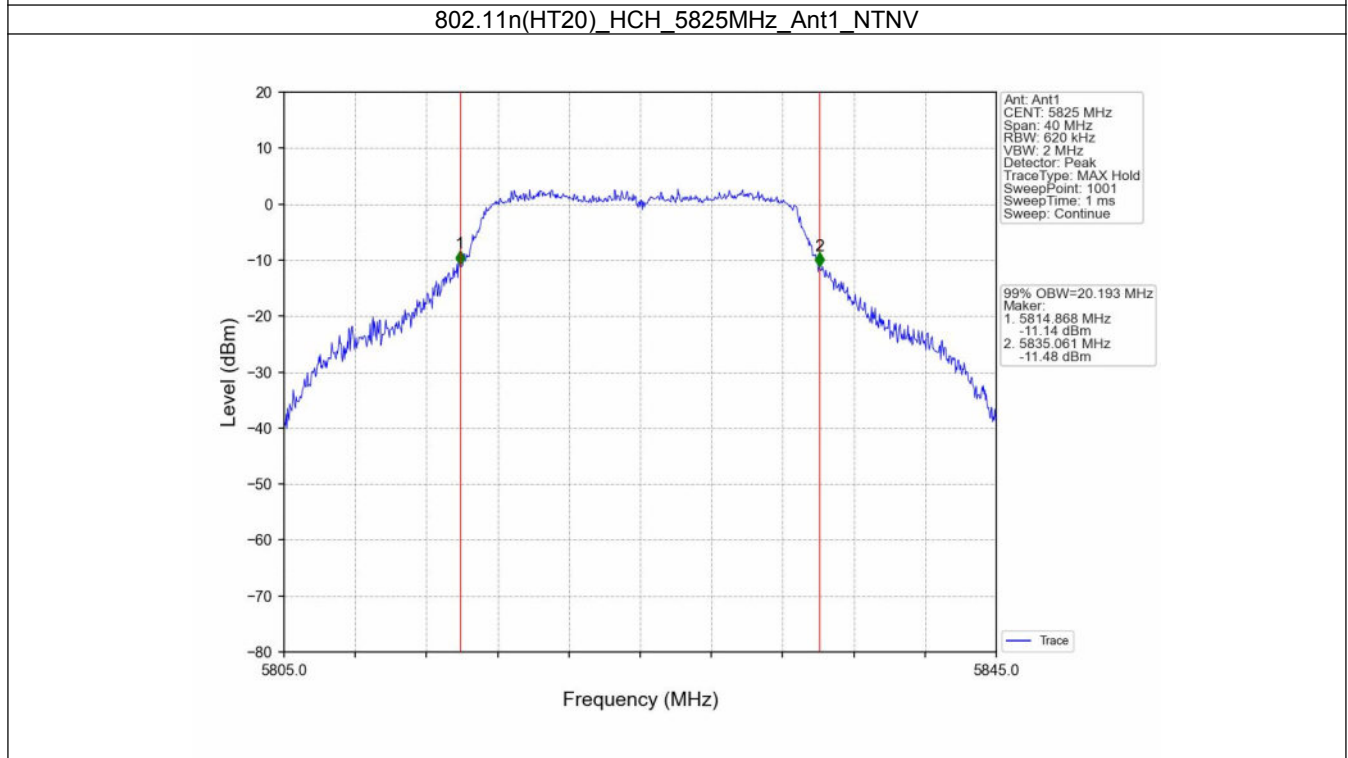
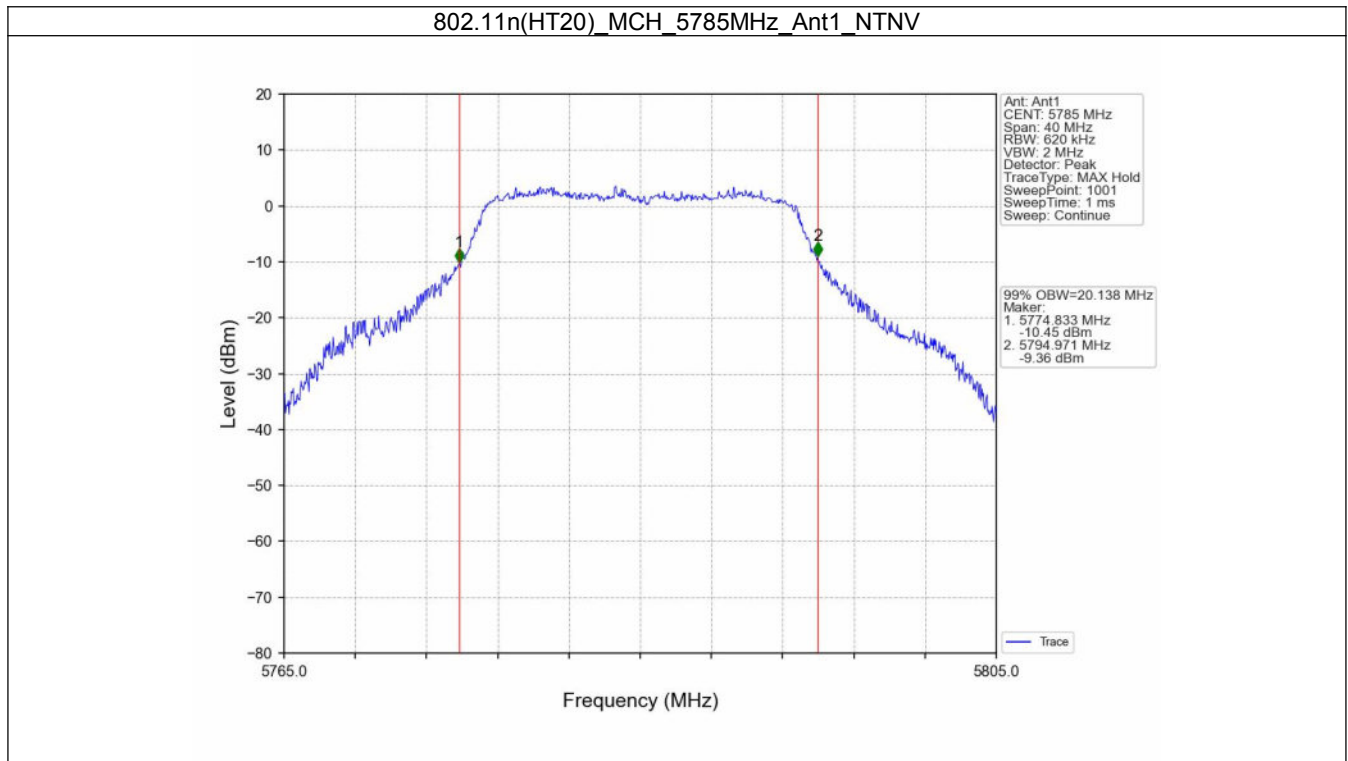
1.2.1 OBW



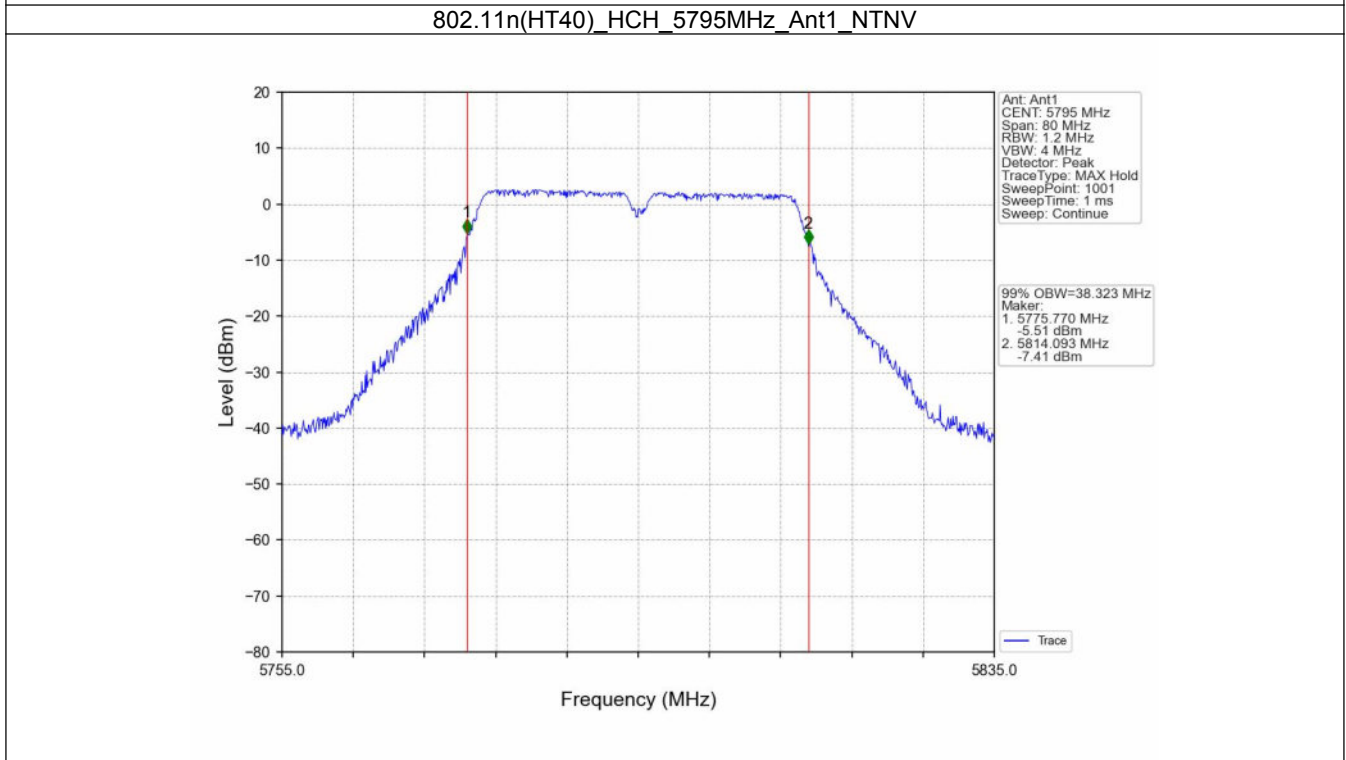
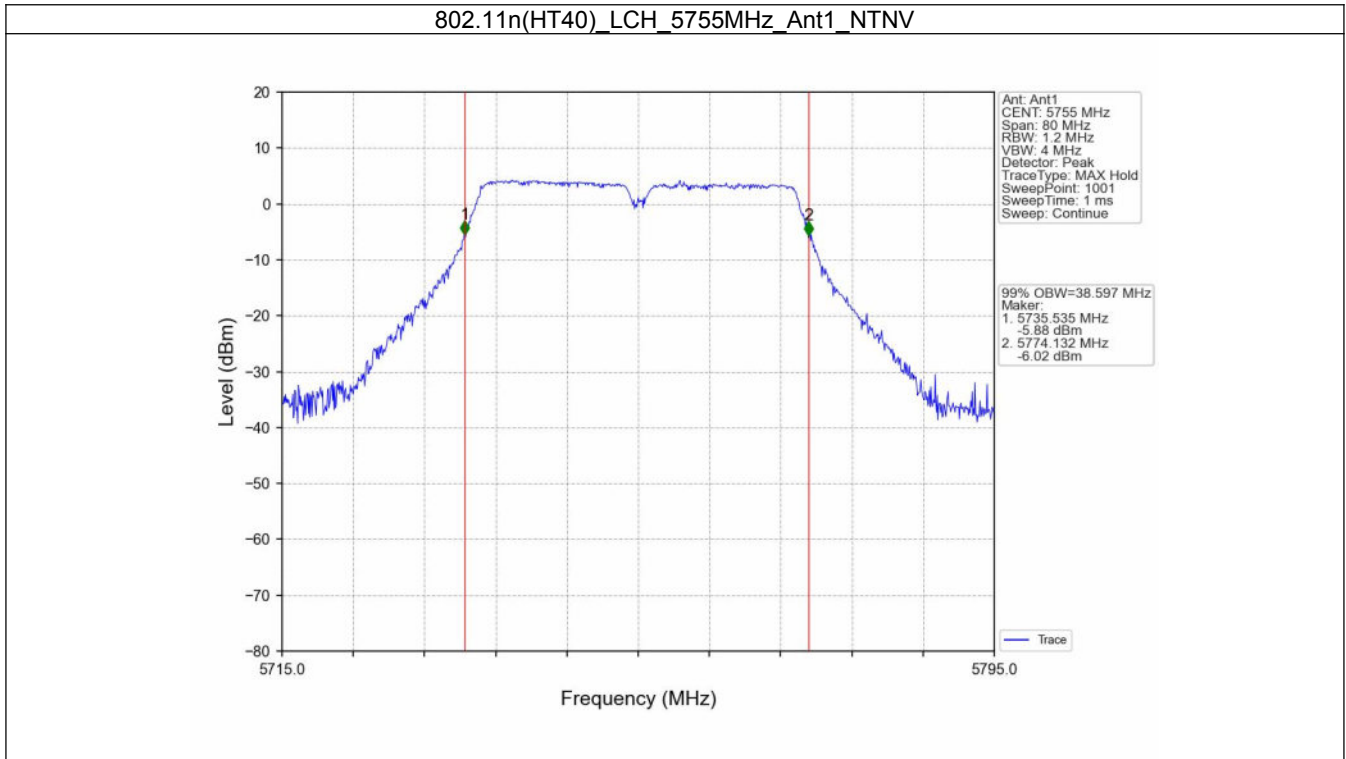
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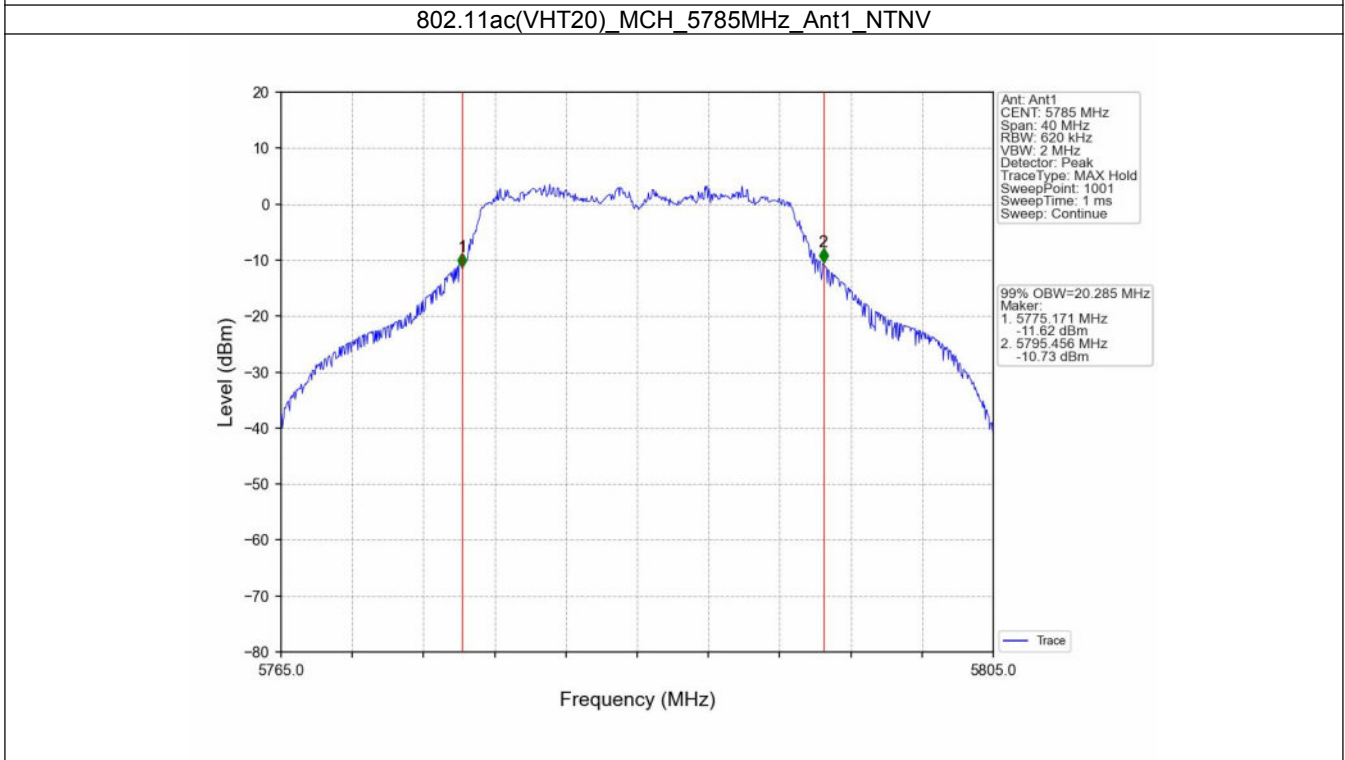
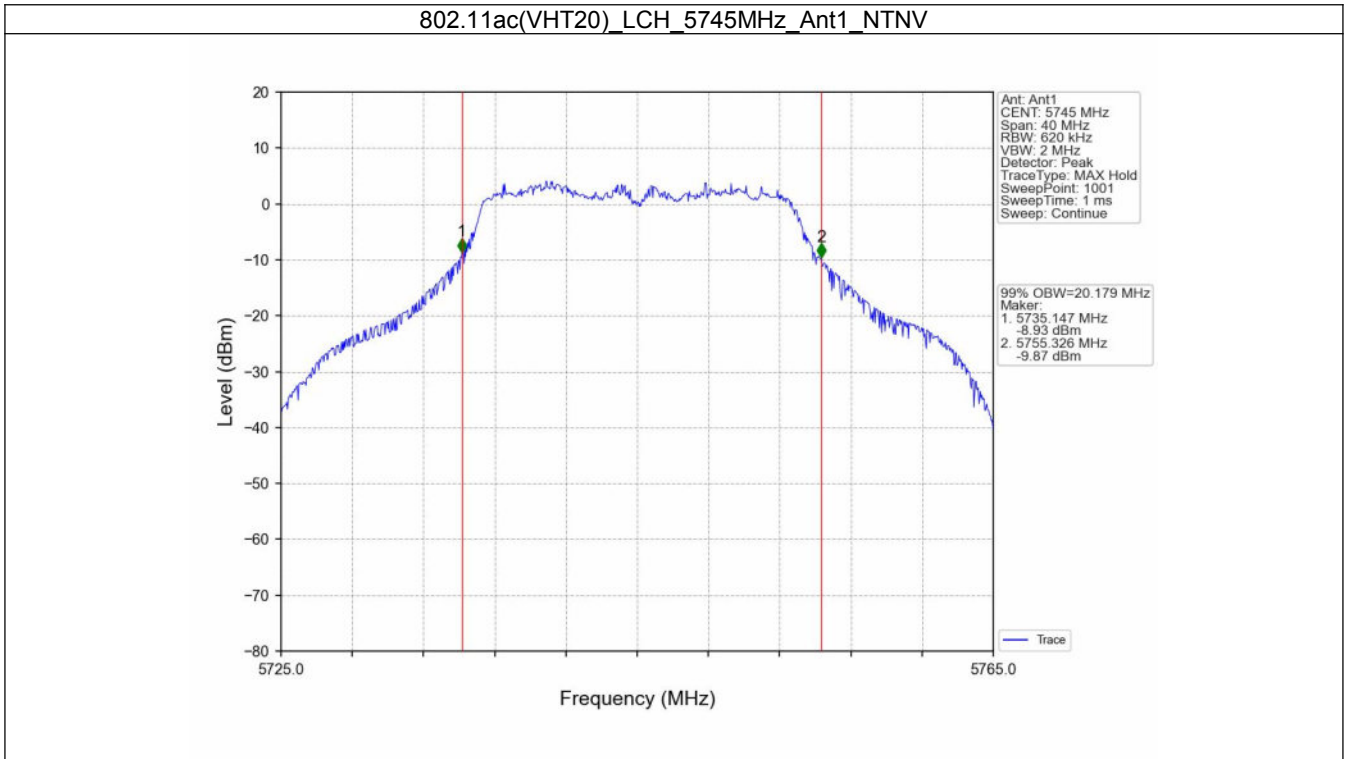
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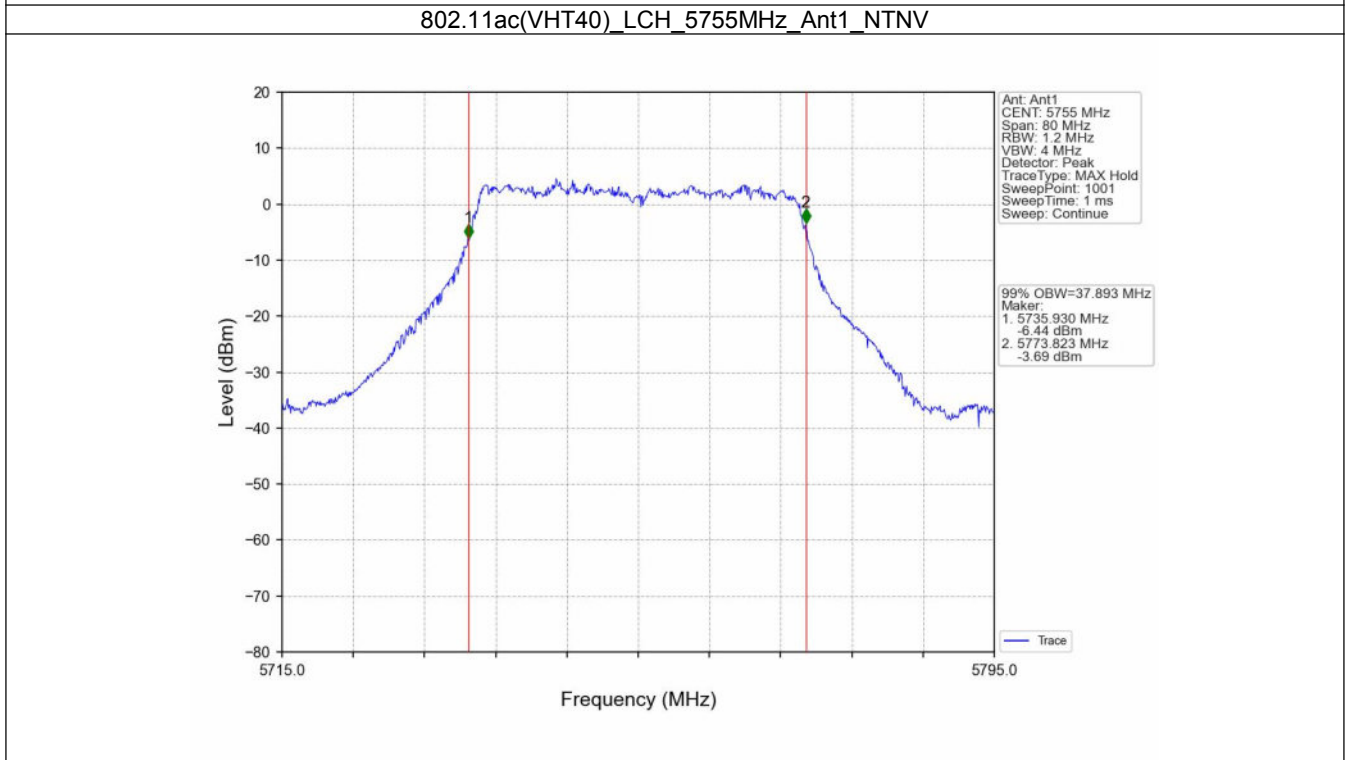
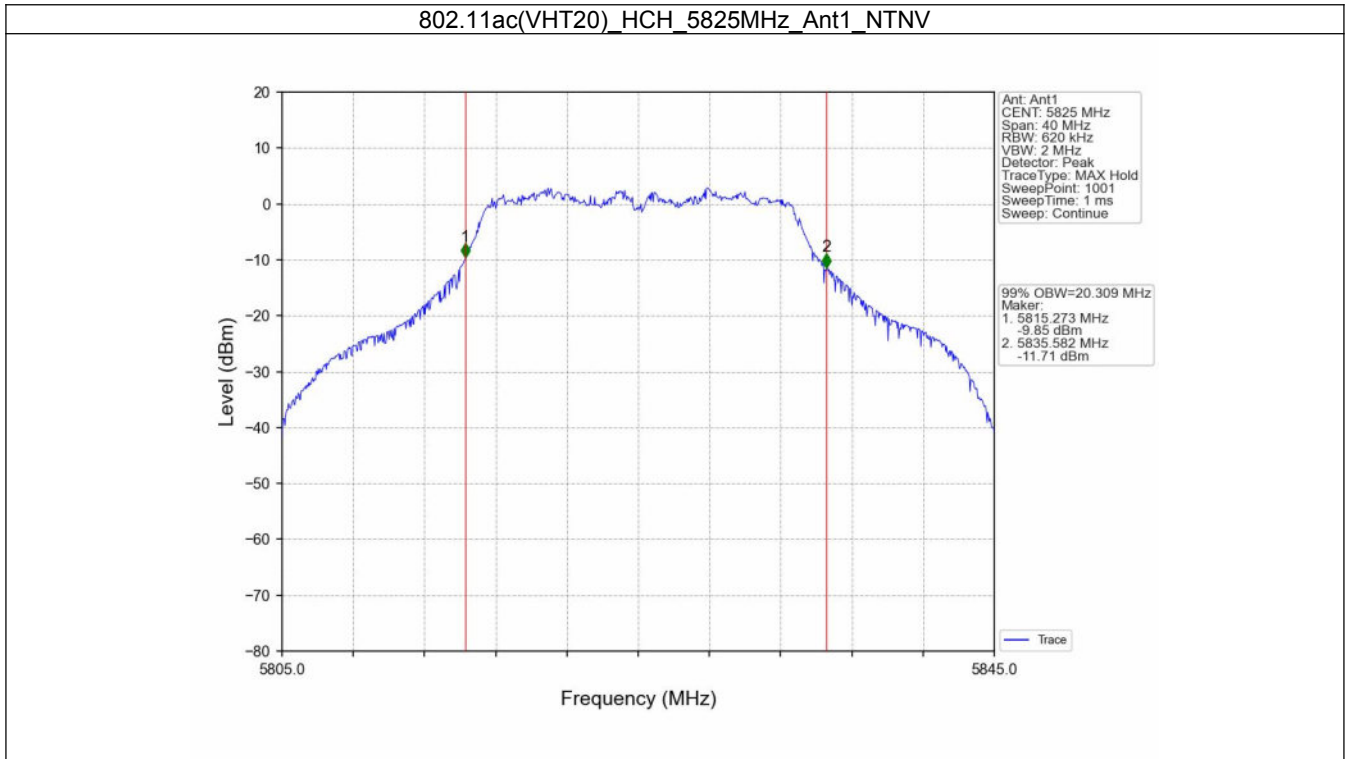
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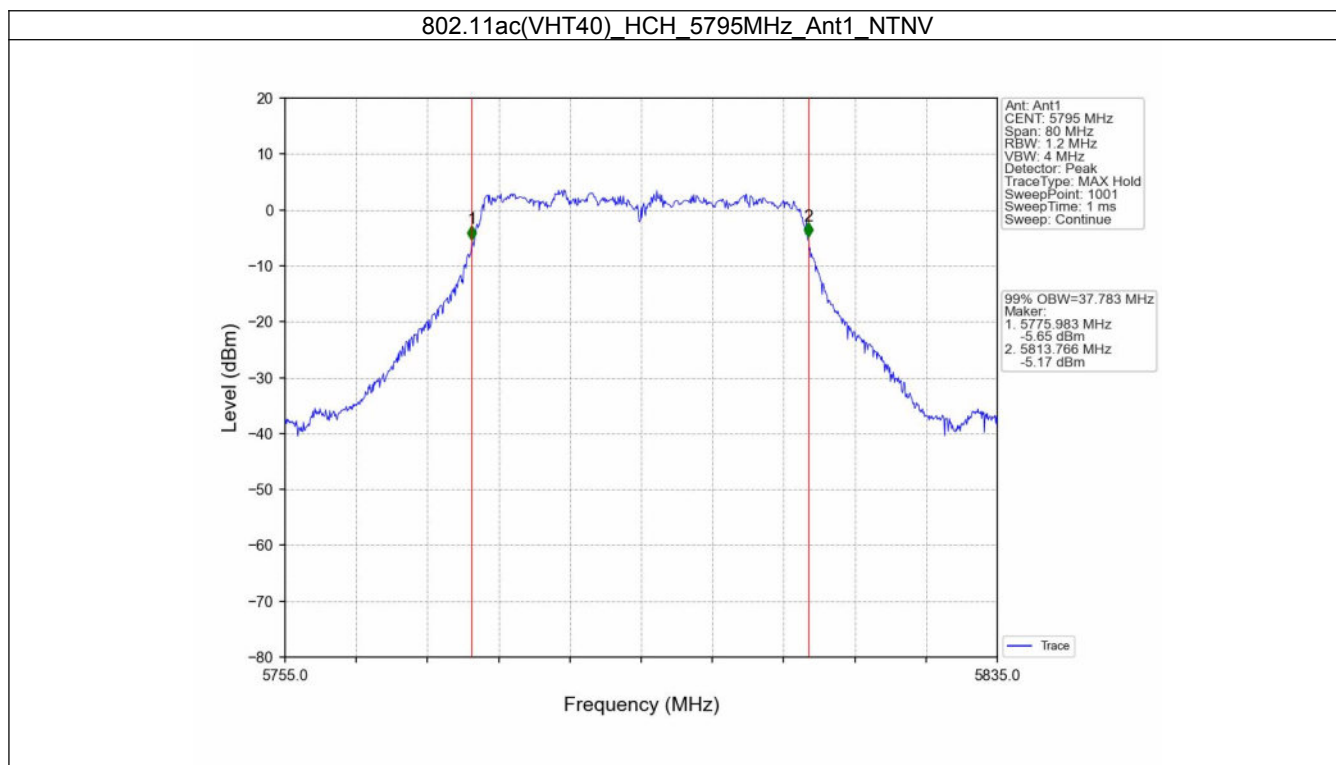
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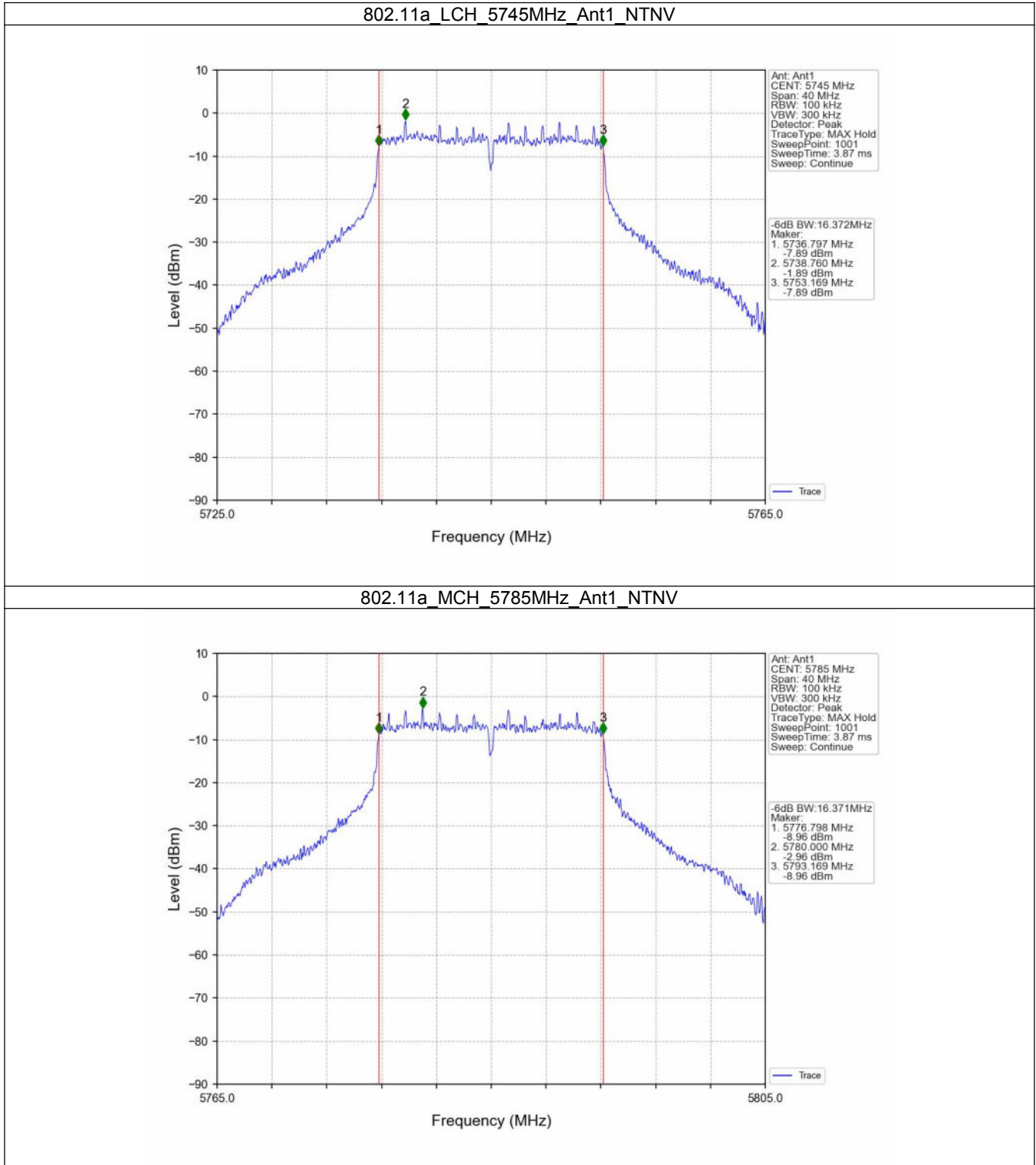


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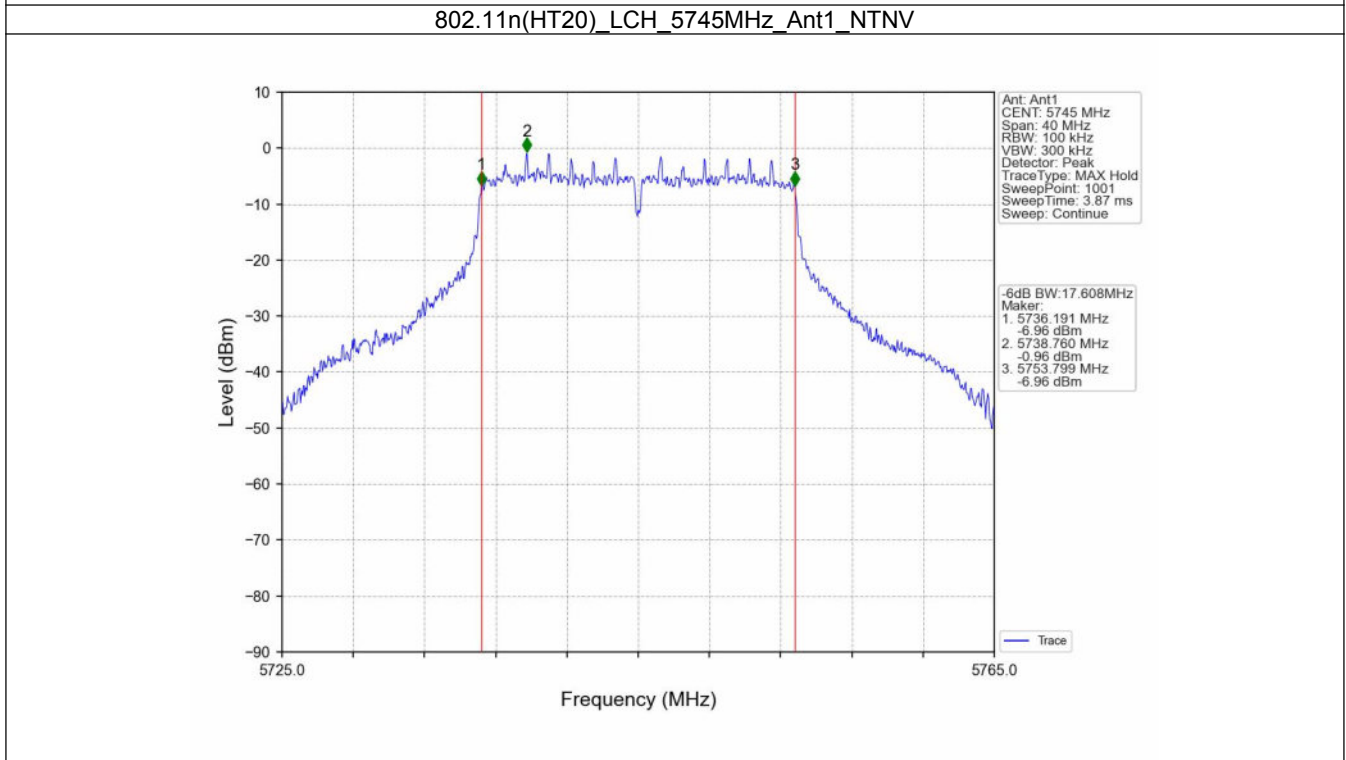
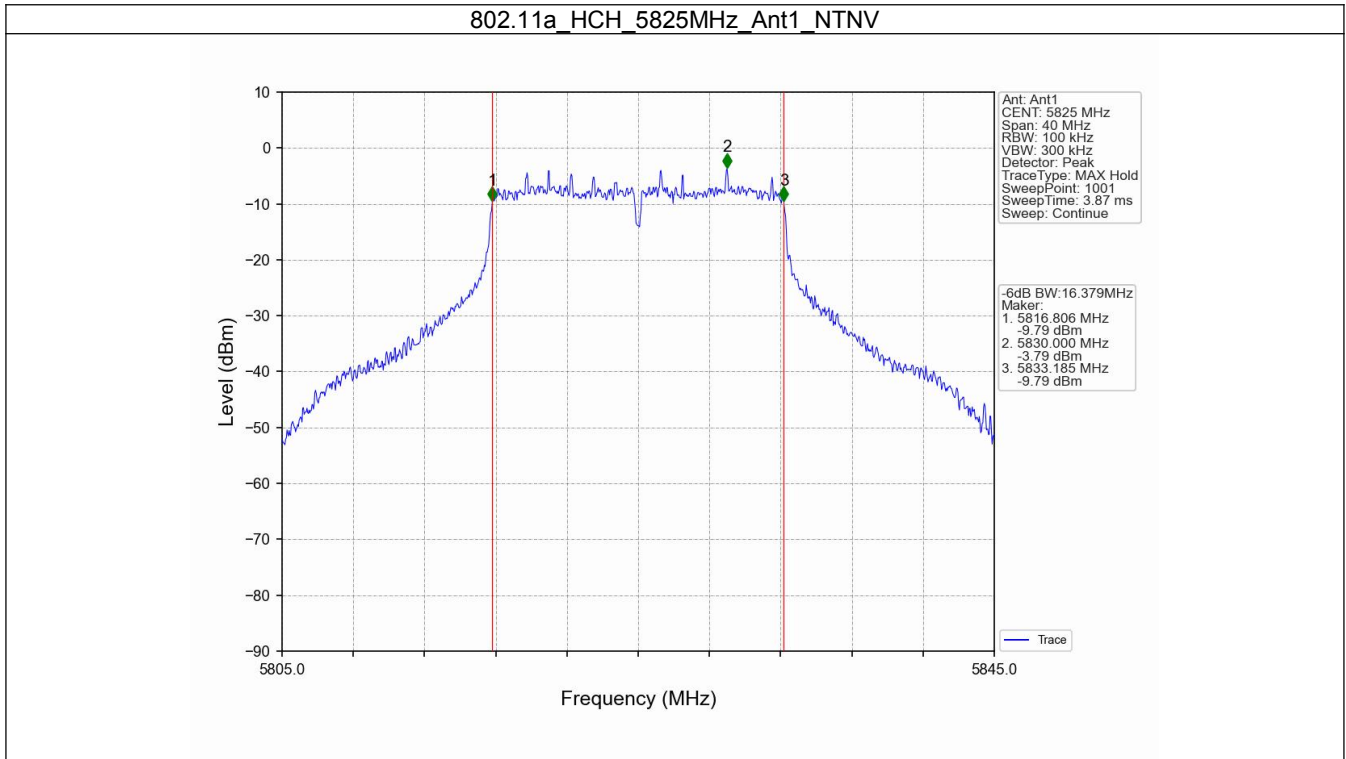


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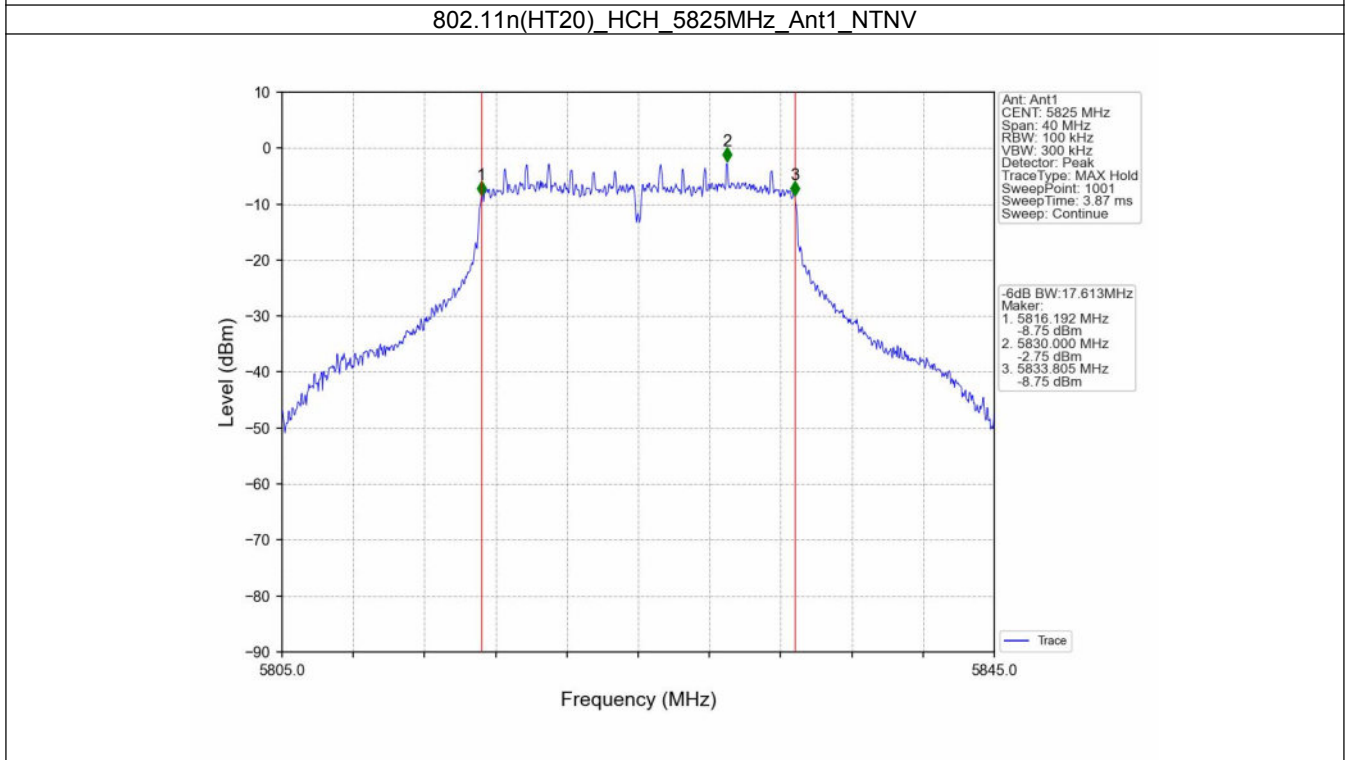
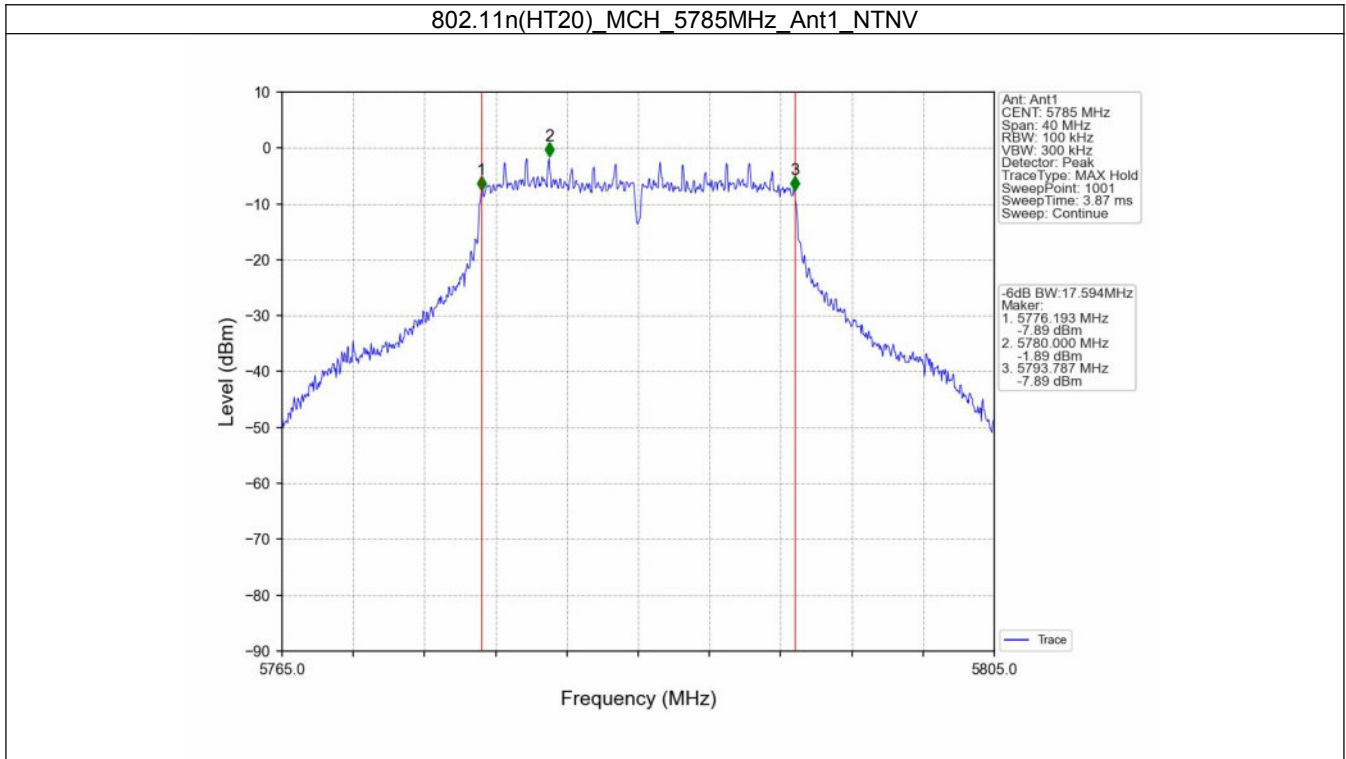
1.2.2 6dB BW



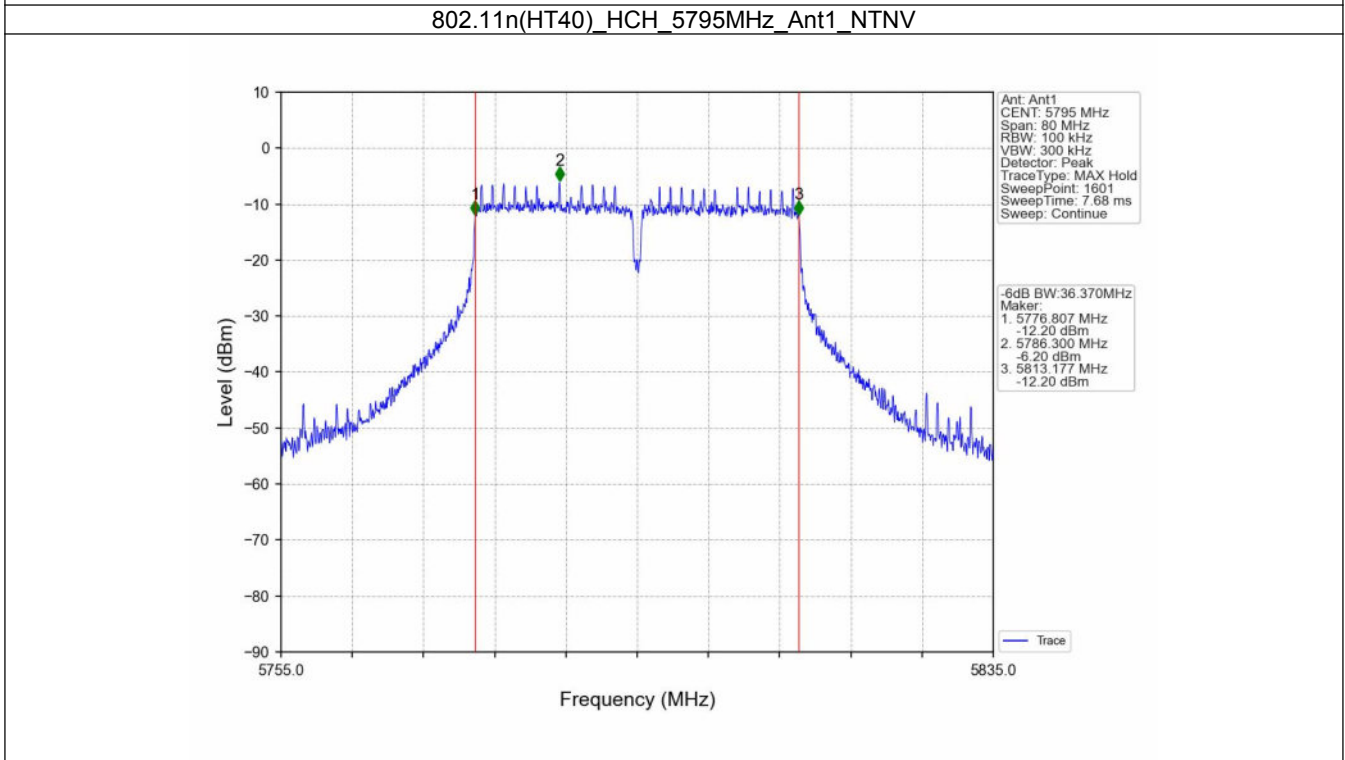
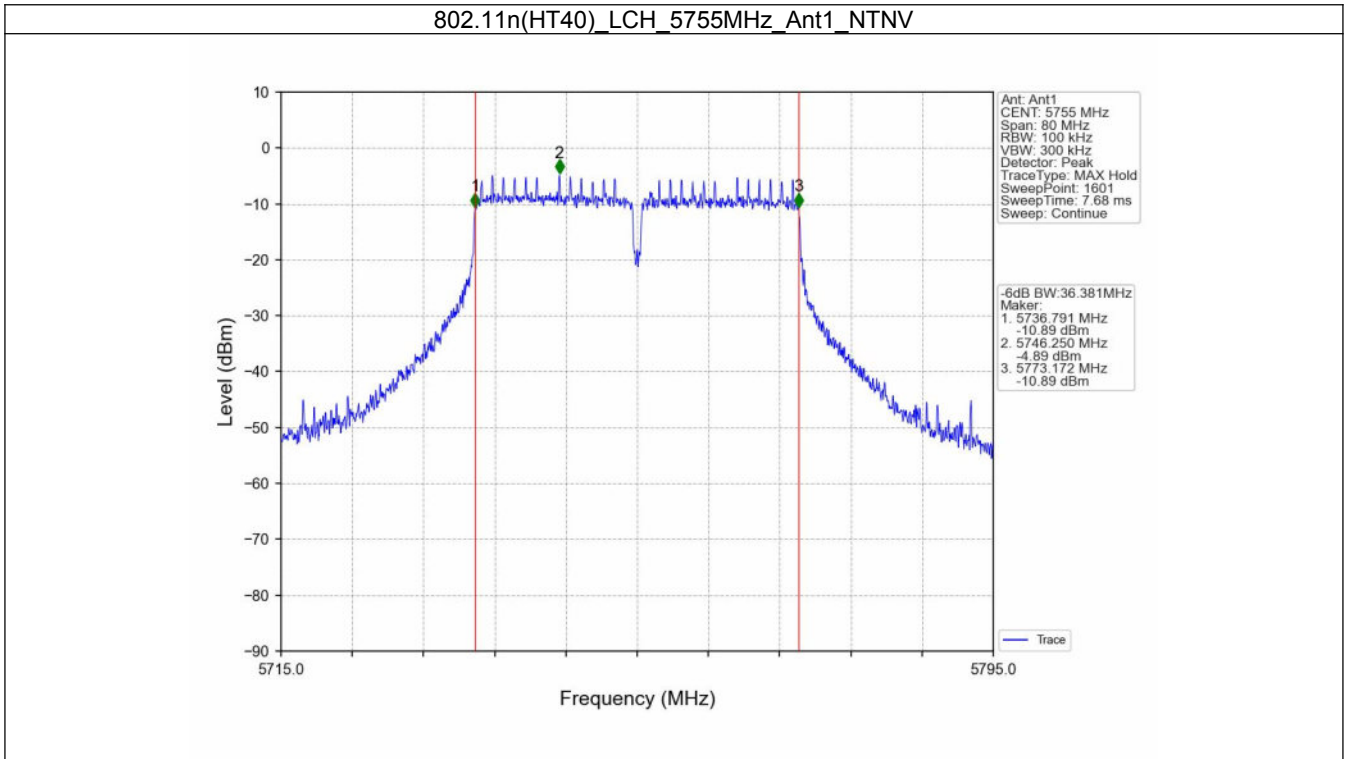
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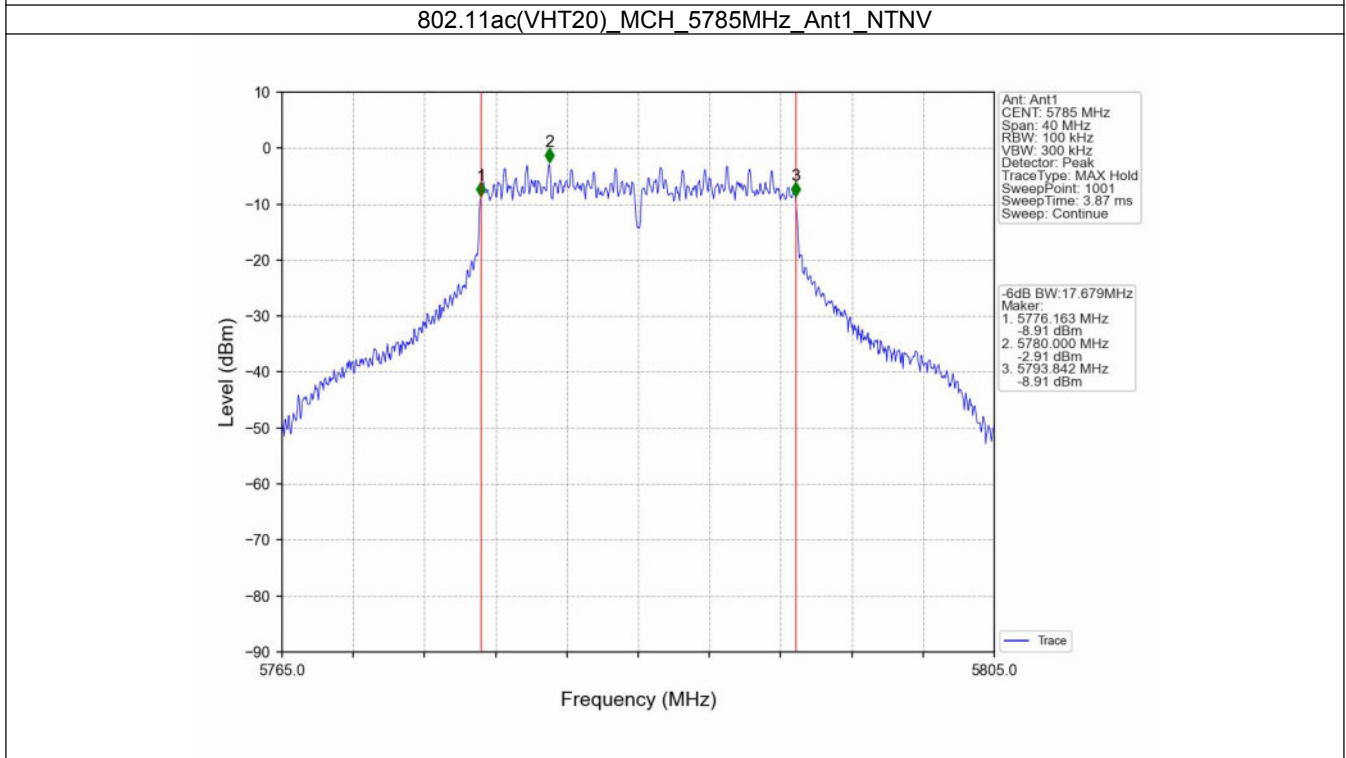
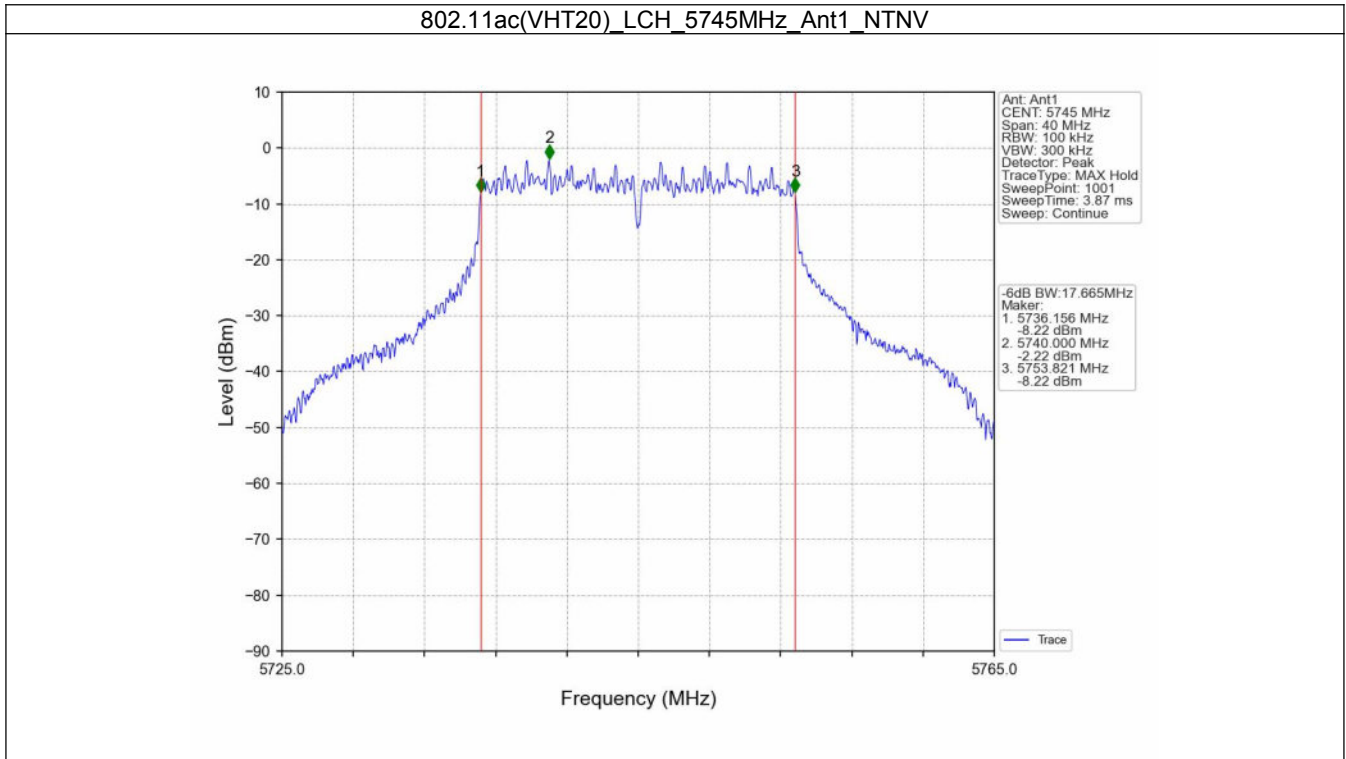
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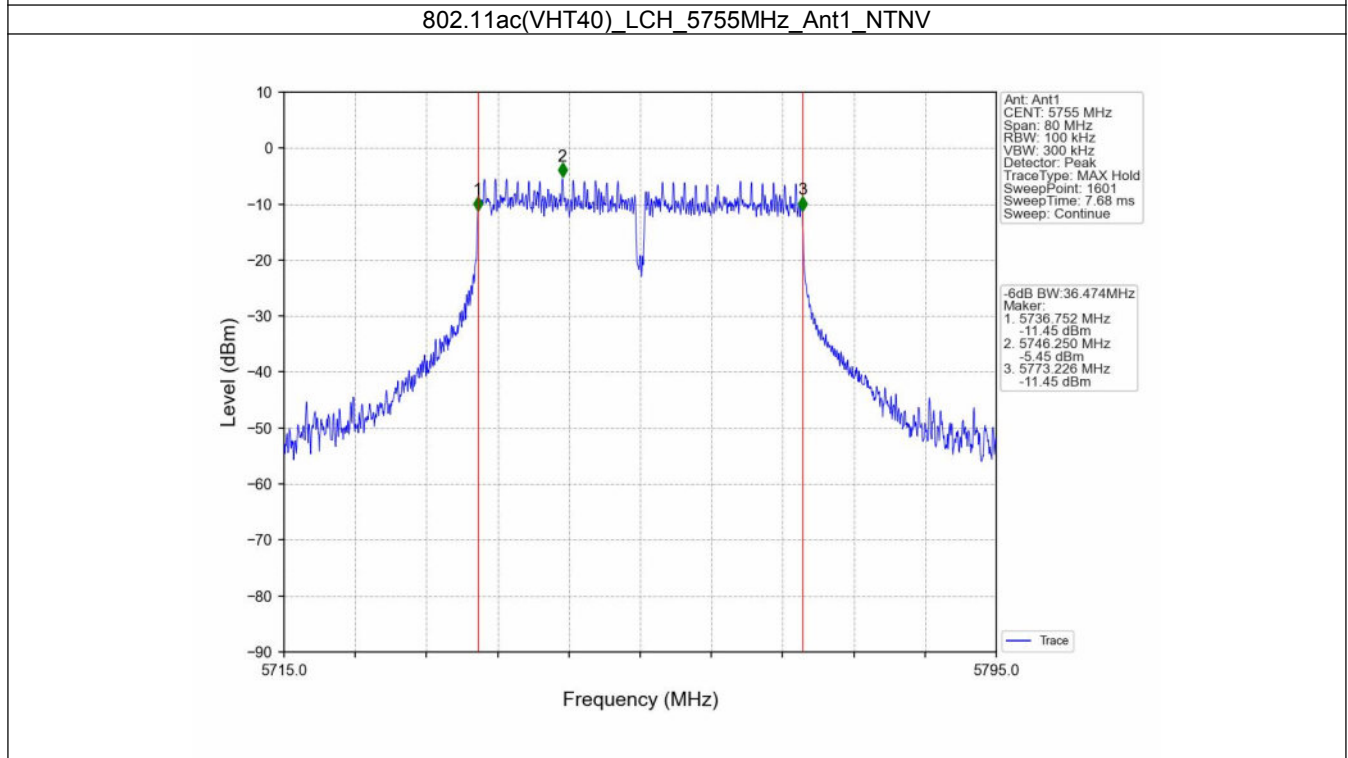
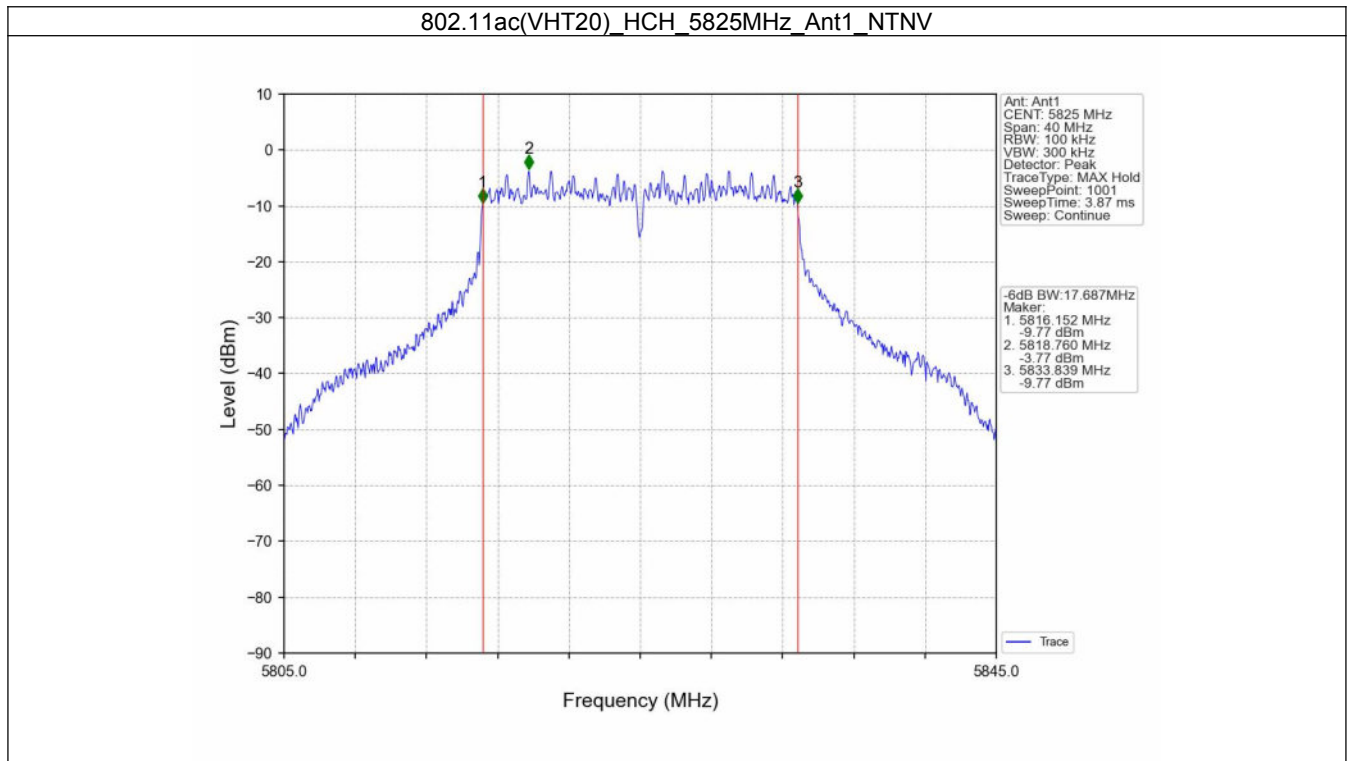
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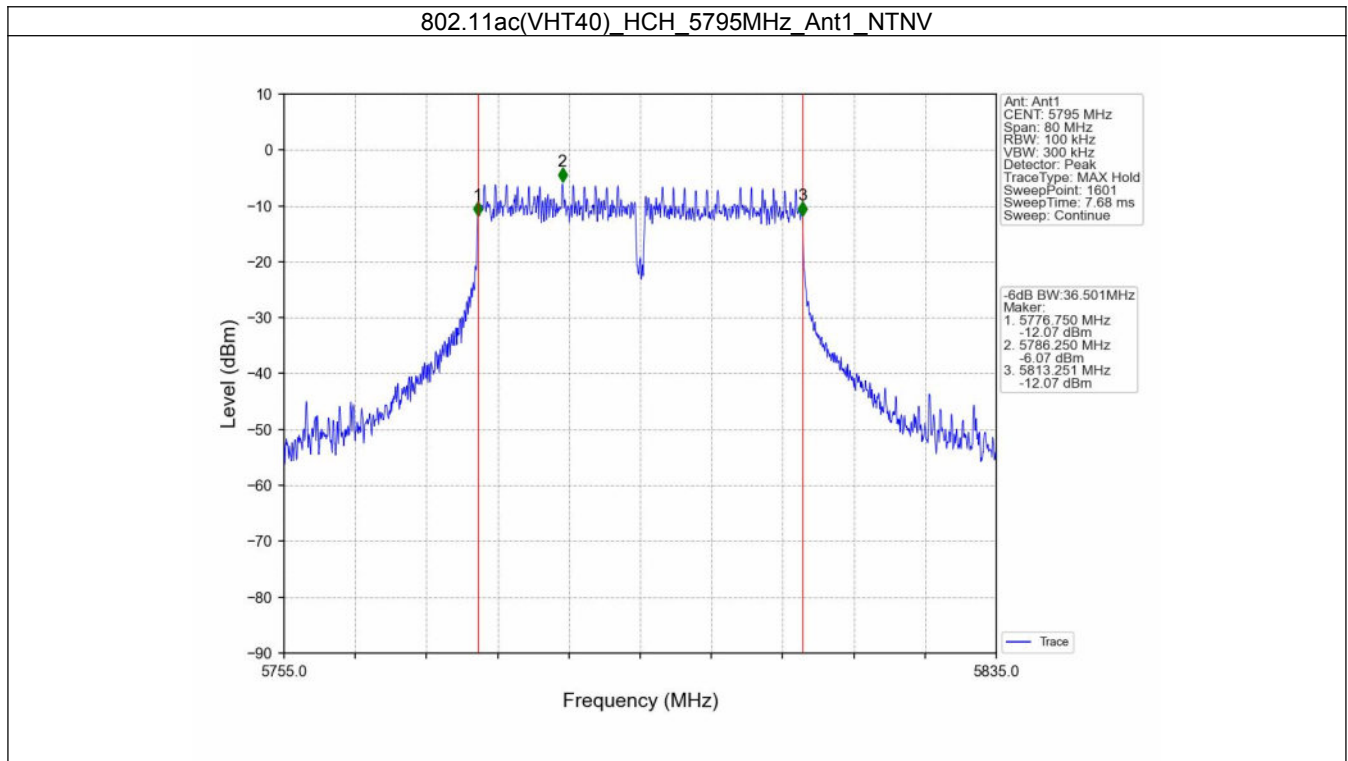
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FCC ID: 2ASC7TAB702



FCC ID: 2ASC7TAB702



FCC ID: 2ASC7TAB702

2. Maximum Conducted Output Power

2.1 Test Result

2.1.1 Power

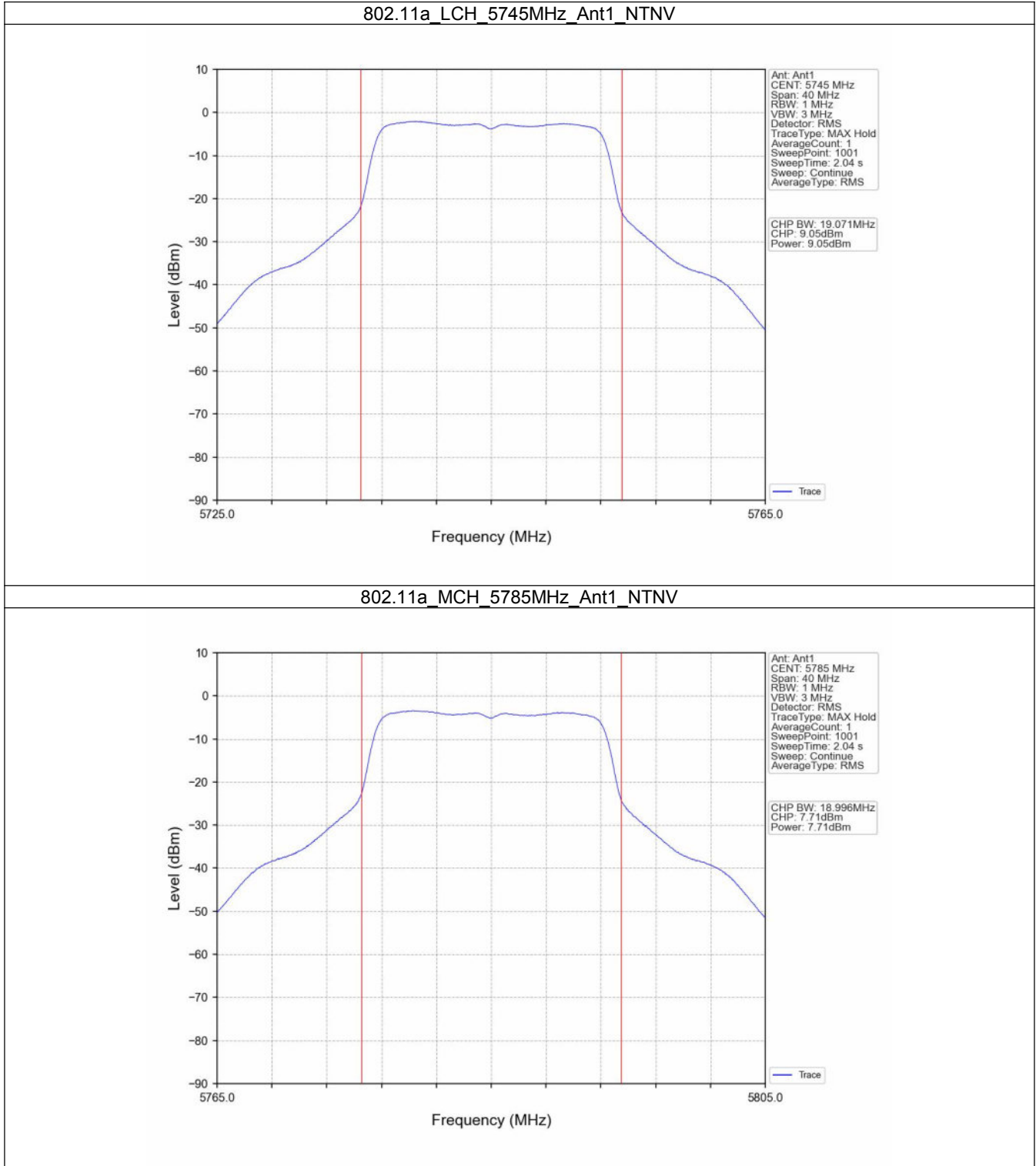
Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11a	SISO	5745	9.05	<=30	Pass
		5785	7.71	<=30	Pass
		5825	6.95	<=30	Pass
802.11n (HT20)	SISO	5745	9.85	<=30	Pass
		5785	8.68	<=30	Pass
		5825	7.87	<=30	Pass
802.11n (HT40)	SISO	5755	9.02	<=30	Pass
		5795	7.42	<=30	Pass
802.11ac (VHT20)	SISO	5745	8.72	<=30	Pass
		5785	7.93	<=30	Pass
		5825	7.12	<=30	Pass
802.11ac (VHT40)	SISO	5755	8.60	<=30	Pass
		5795	7.80	<=30	Pass

Note1: Antenna Gain: Ant1: 1.25dBi;

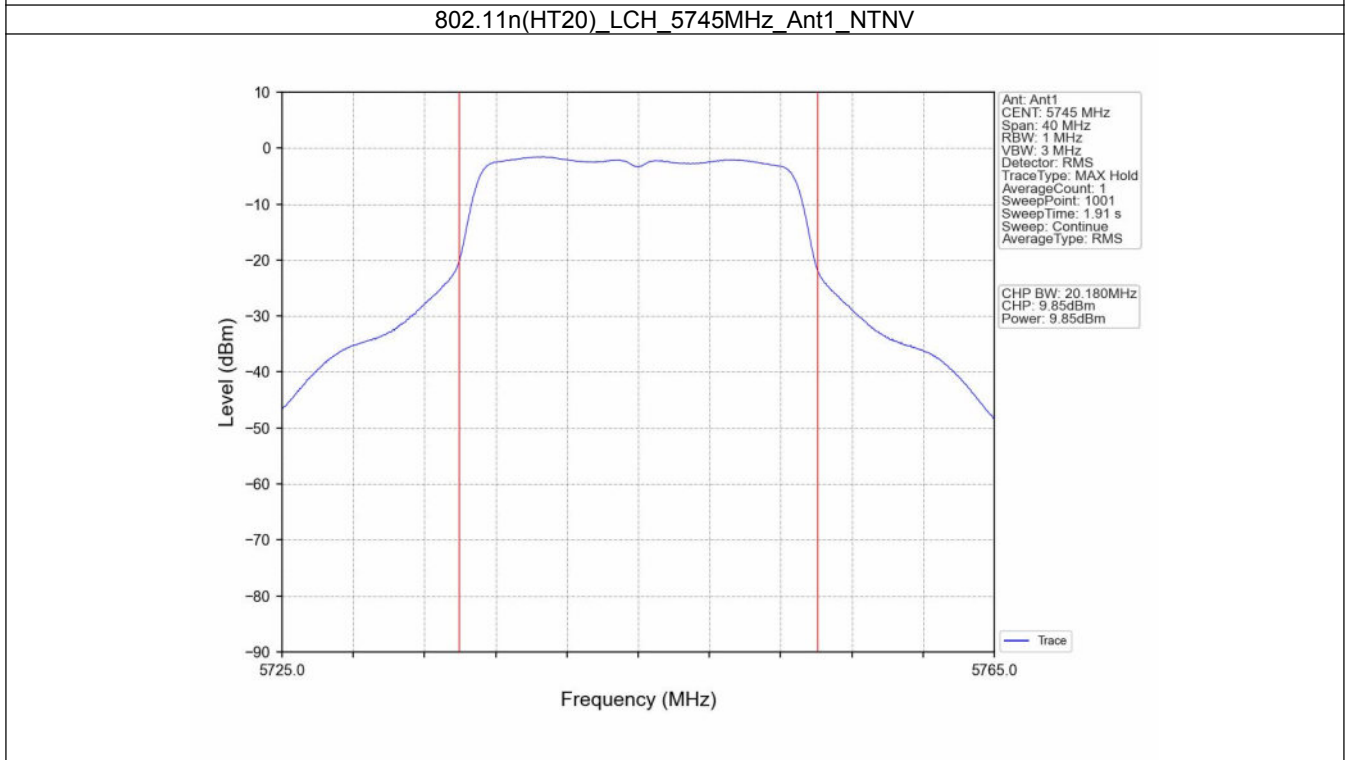
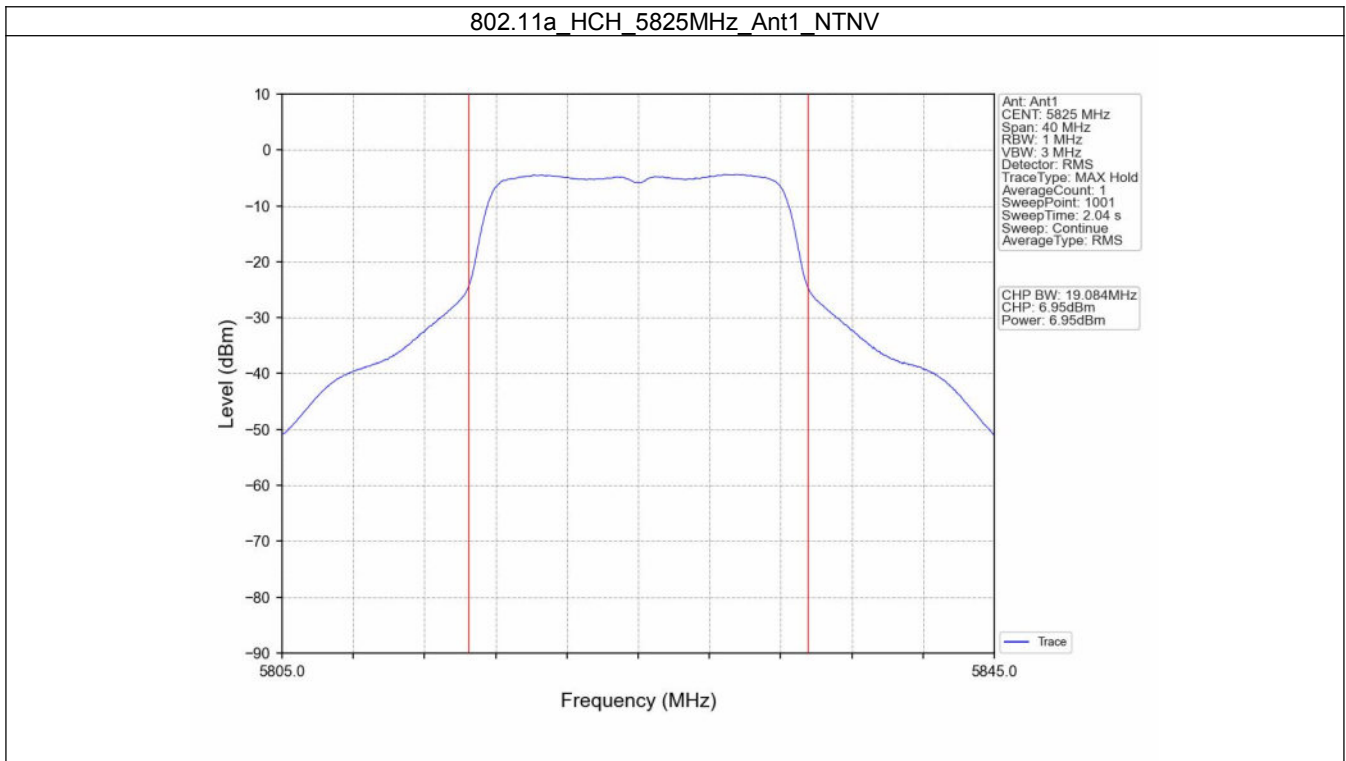
FCC ID: 2ASC7TAB702

2.2 Test Graph

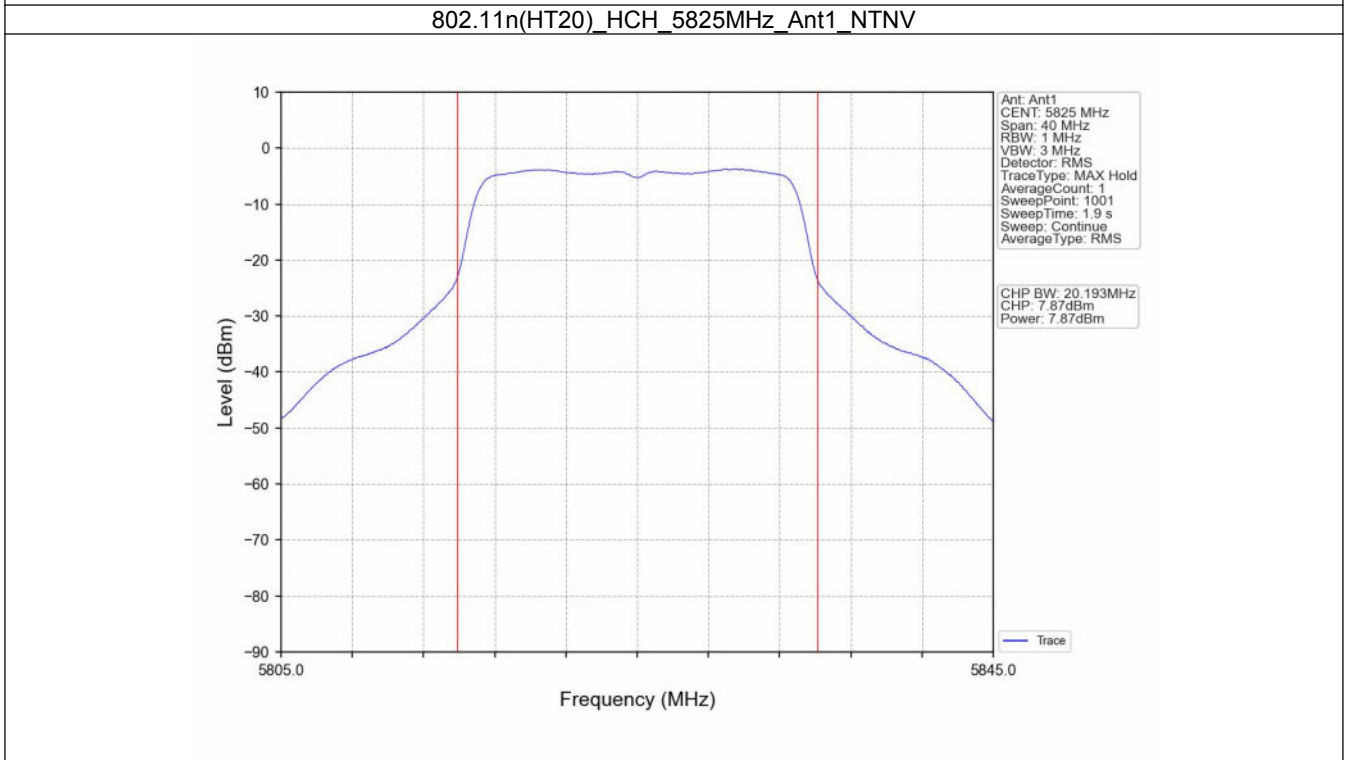
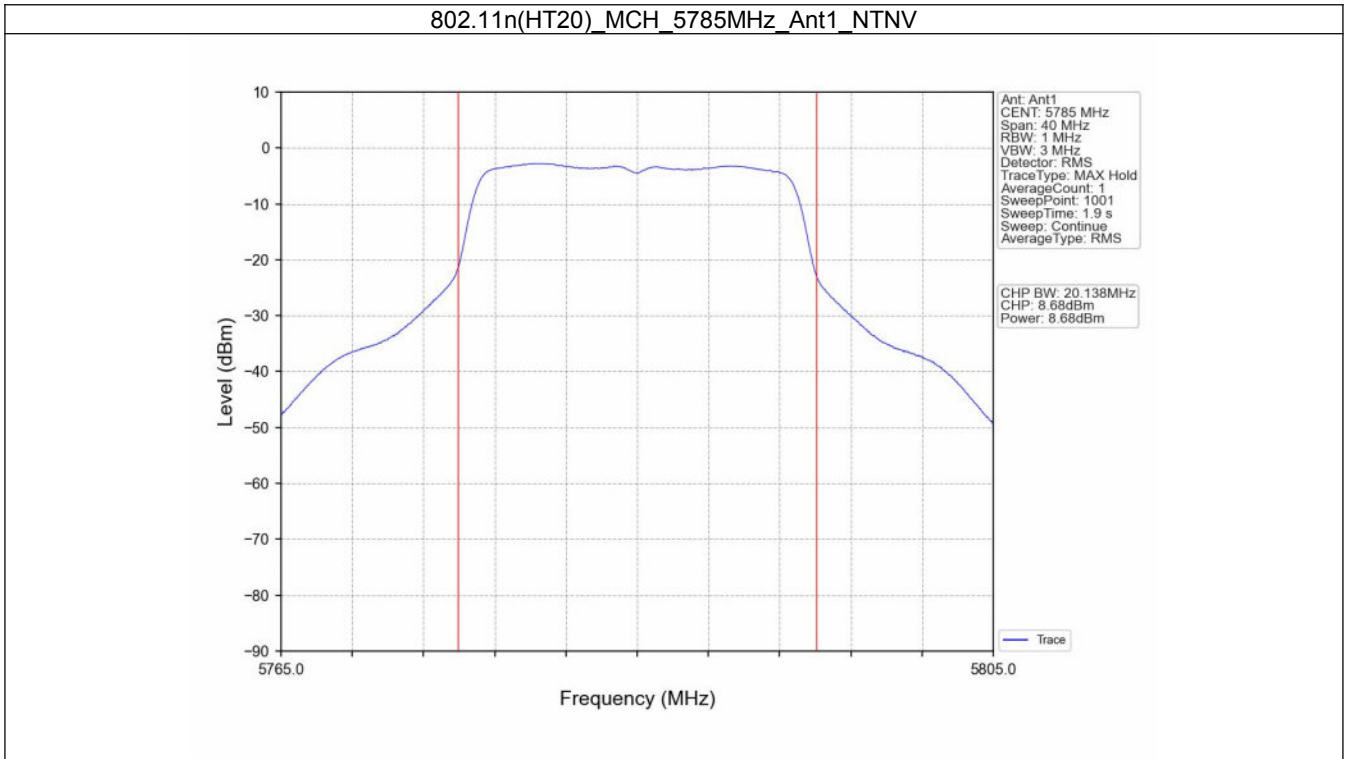
2.2.1 Power



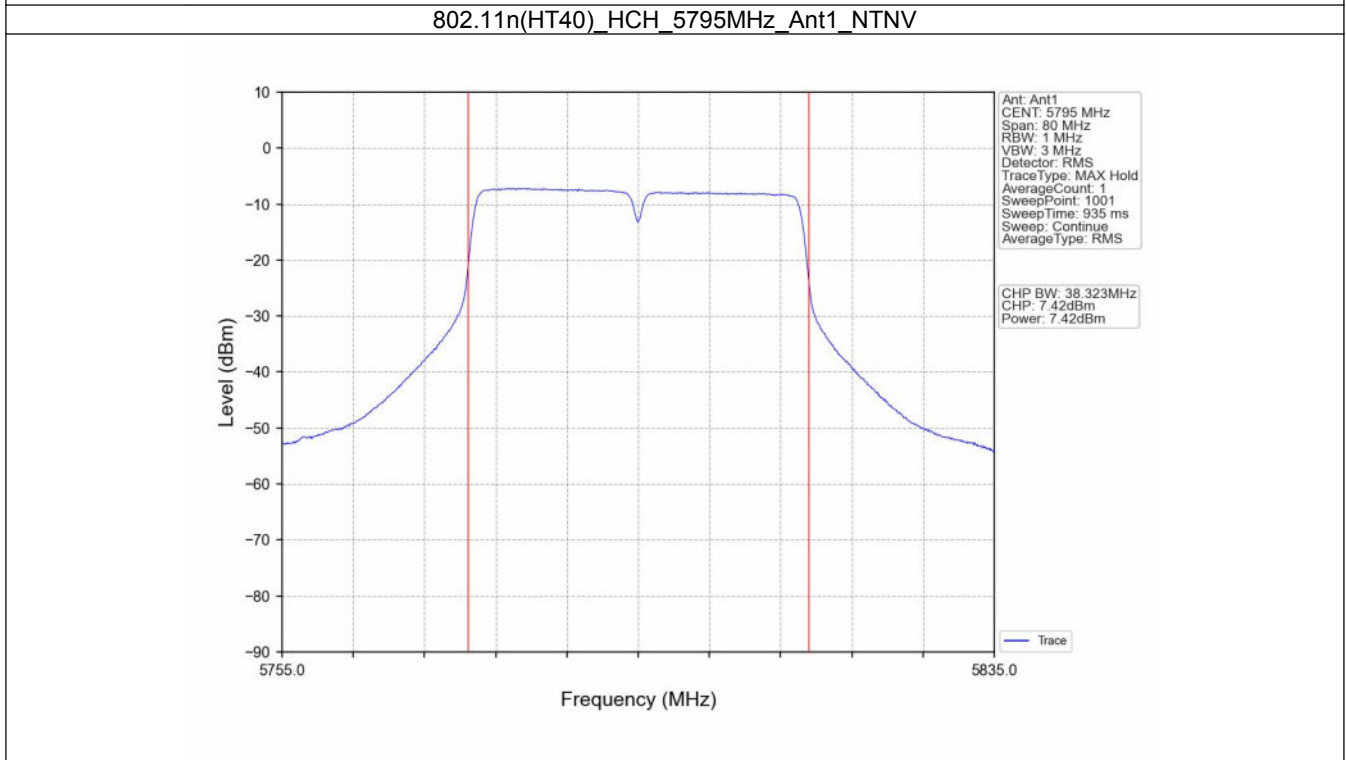
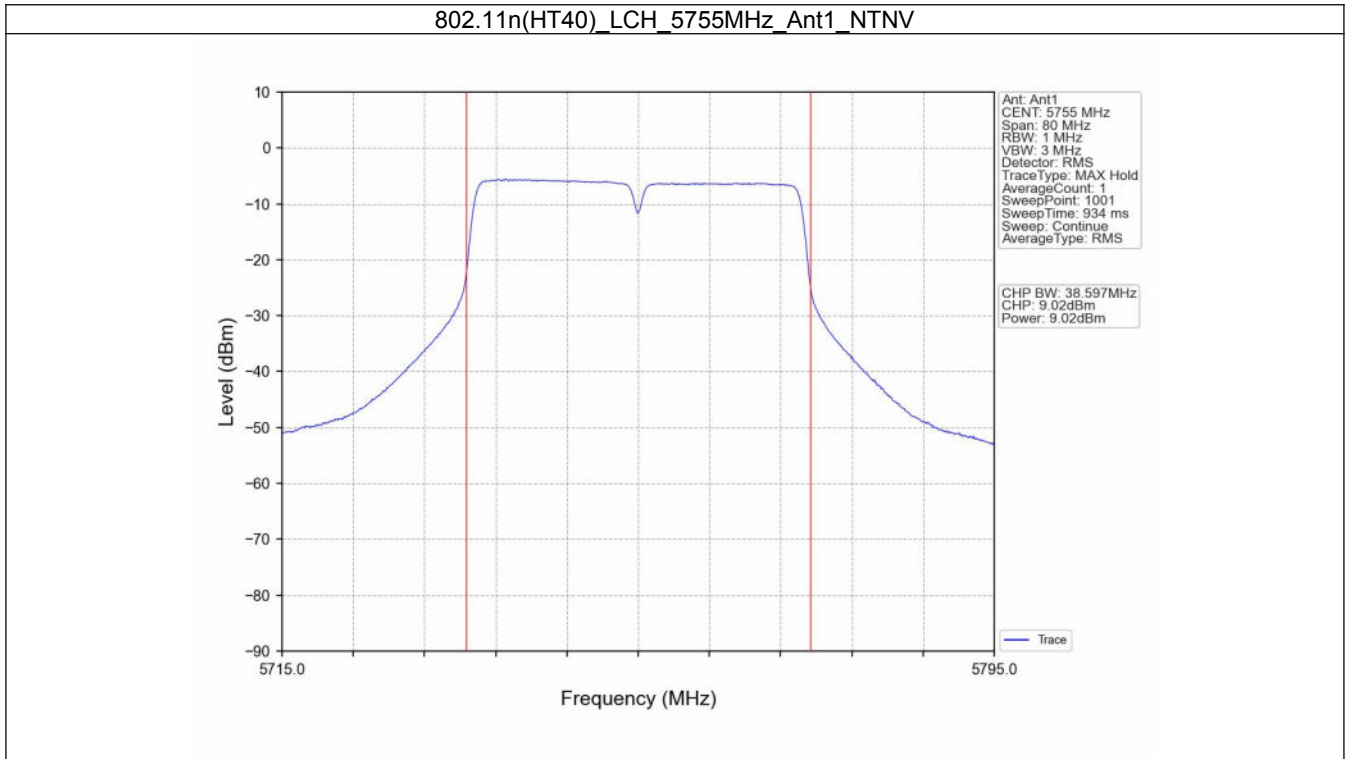
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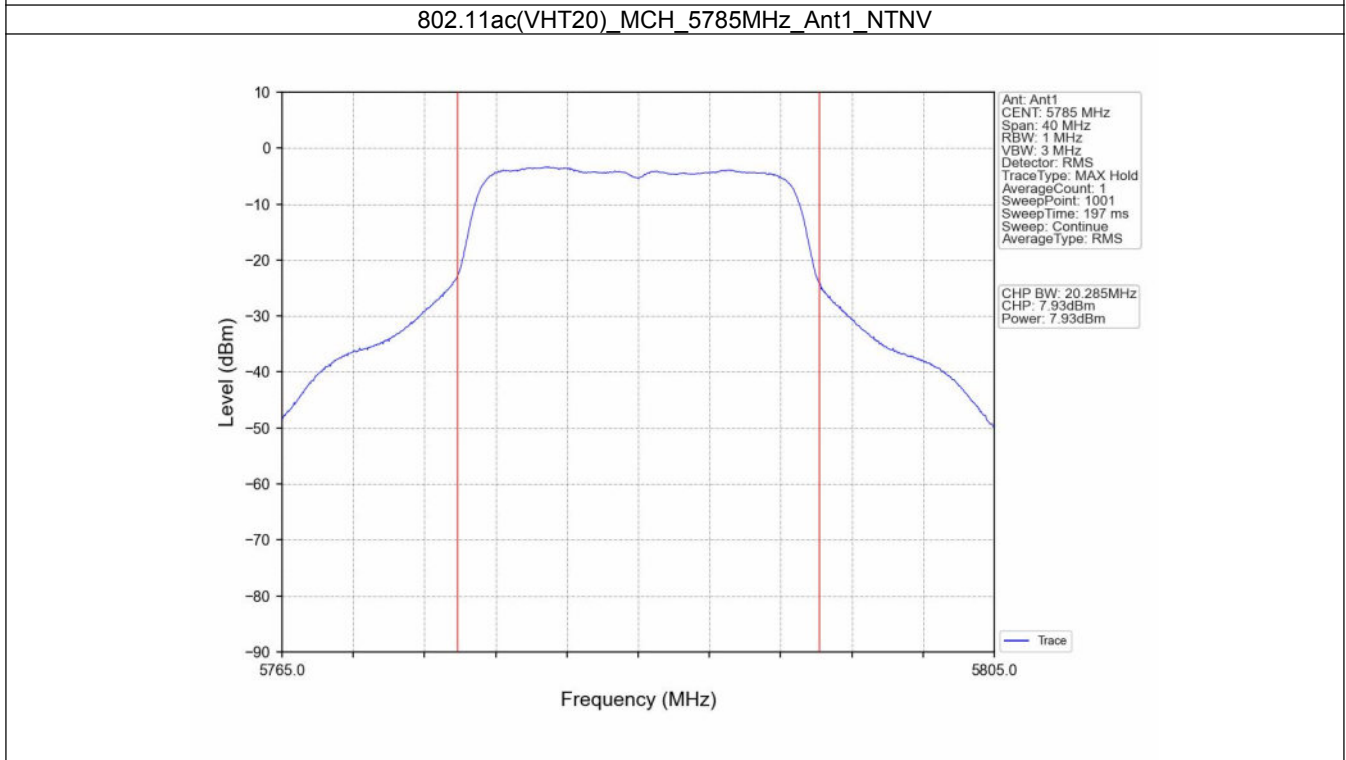
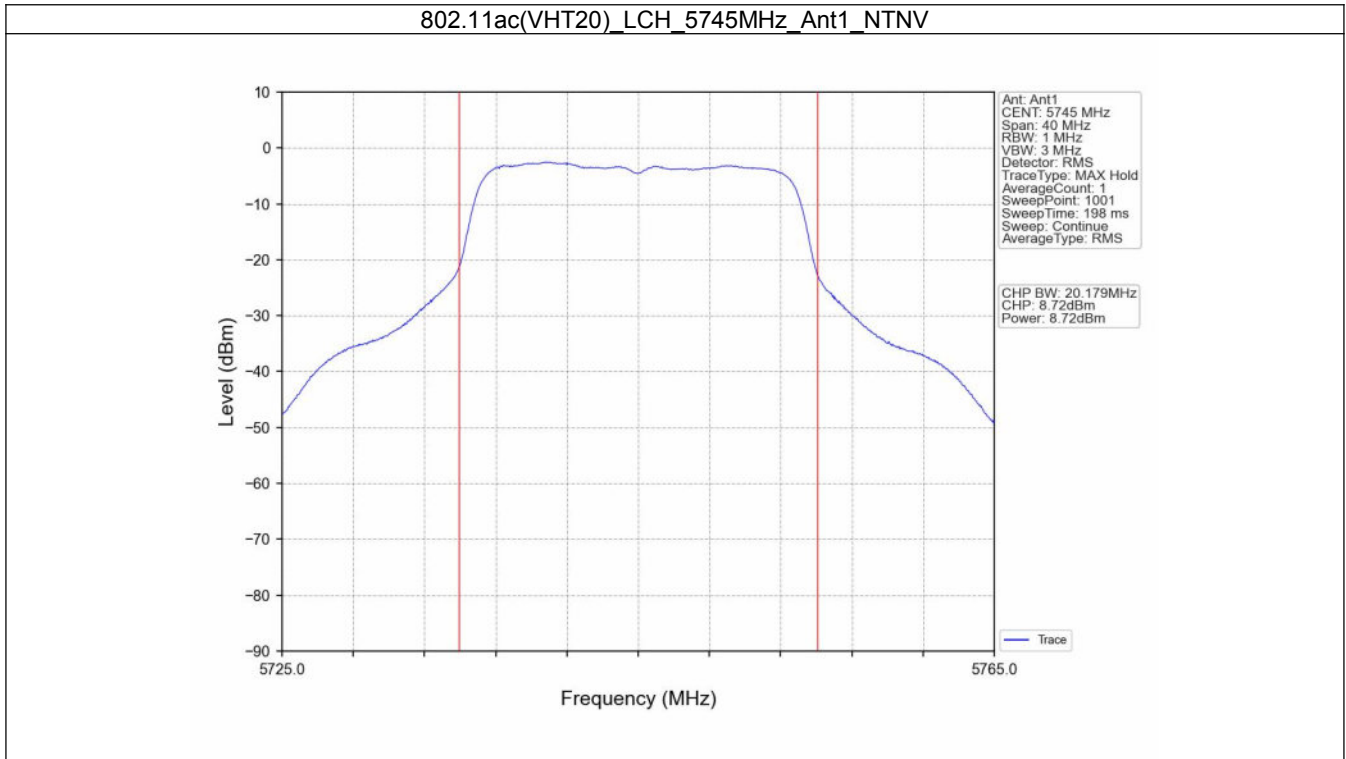
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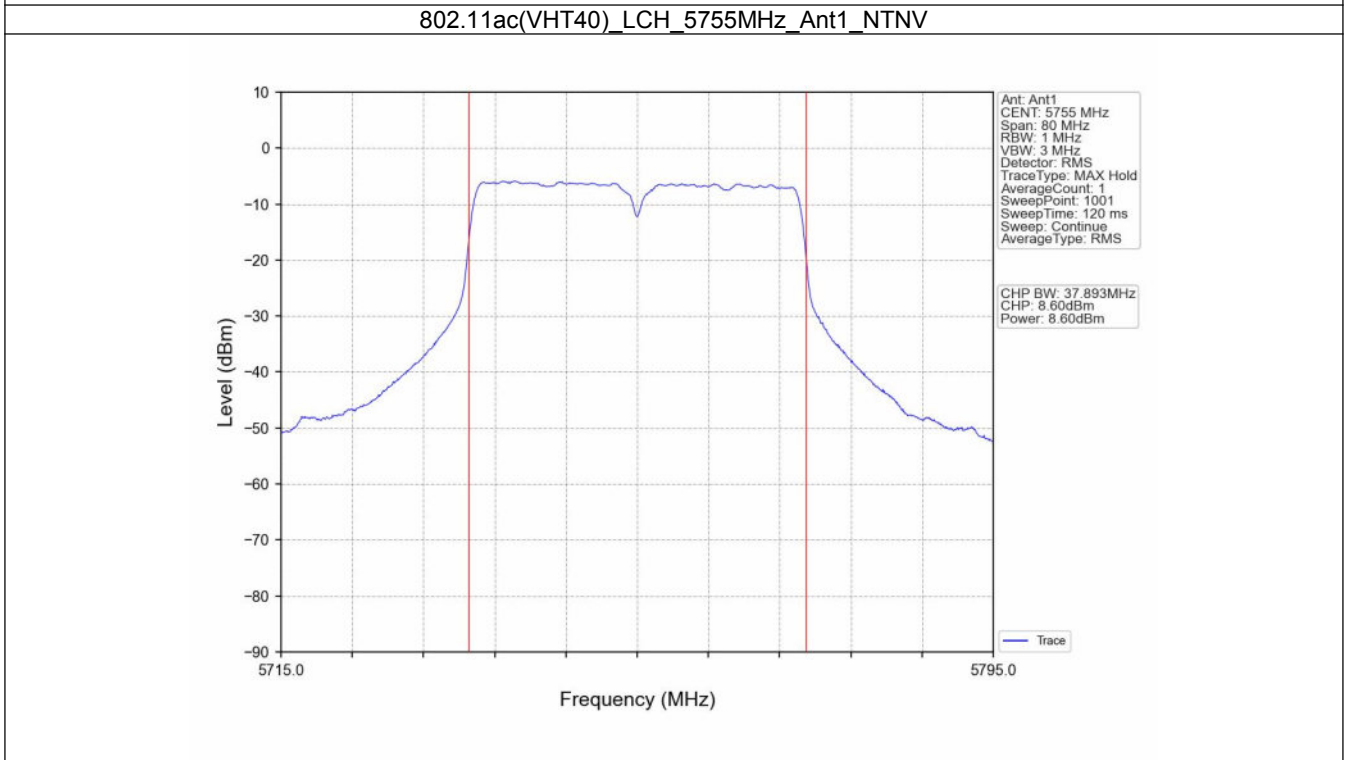
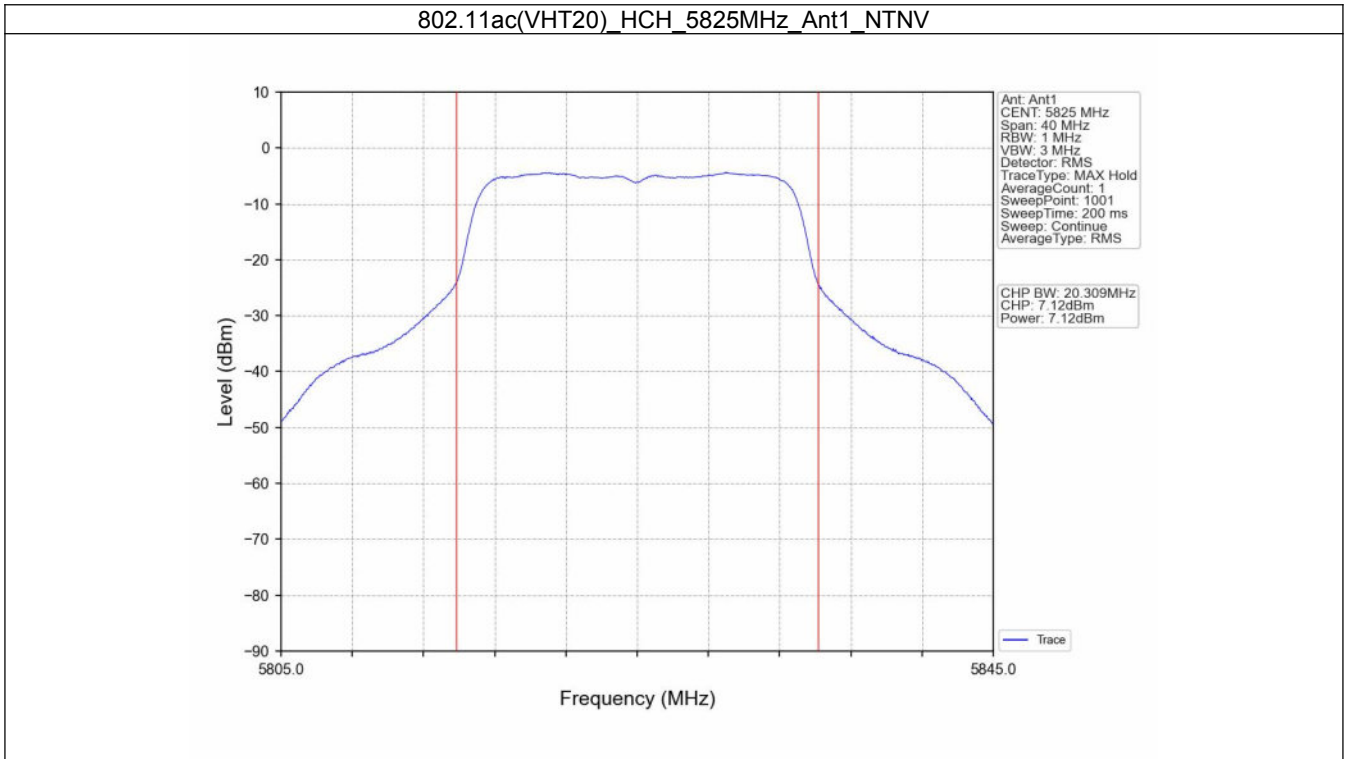
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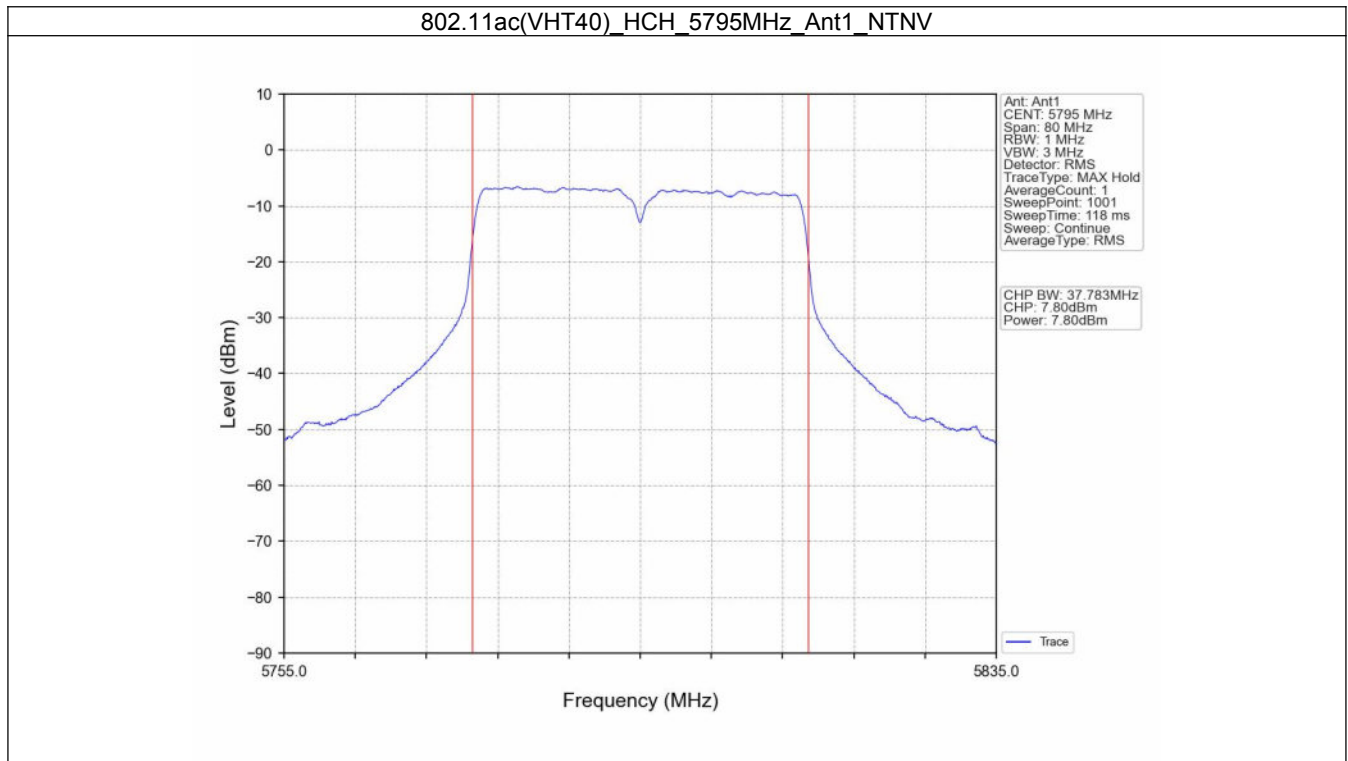
FCC ID: 2ASC7TAB702



FCC ID: 2ASC7TAB702



FCC ID: 2ASC7TAB702



FCC ID: 2ASC7TAB702

3. Maximum Power Spectral Density

3.1 Test Result

3.1.1 PSD-Band3

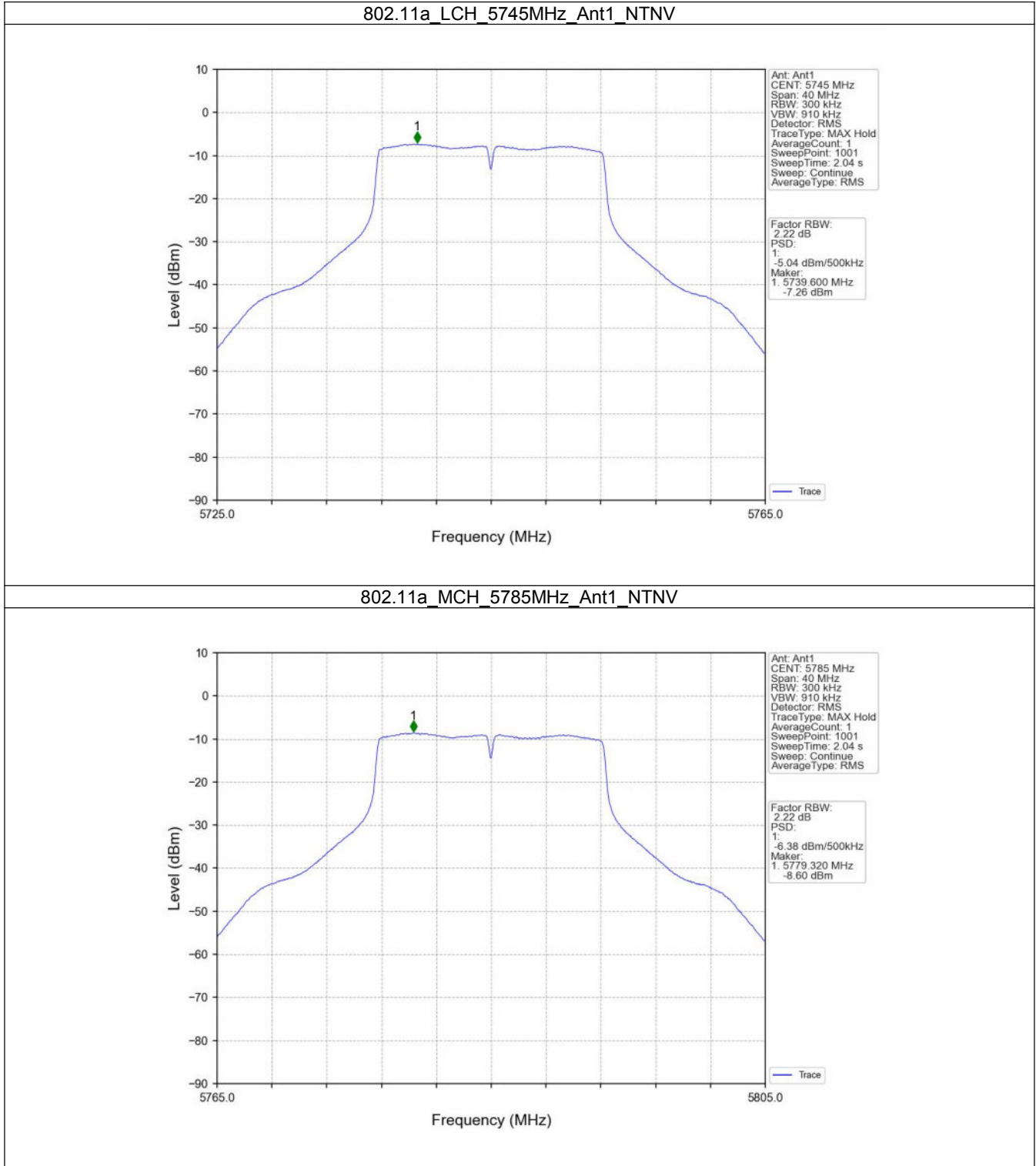
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5745	-5.04	<=30	Pass
		5785	-6.38	<=30	Pass
		5825	-5.97	<=30	Pass
802.11n (HT20)	SISO	5745	-4.52	<=30	Pass
		5785	-5.63	<=30	Pass
		5825	-6.63	<=30	Pass
802.11n (HT40)	SISO	5755	-8.51	<=30	Pass
		5795	-10.09	<=30	Pass
802.11ac (VHT20)	SISO	5745	-4.44	<=30	Pass
		5785	-5.40	<=30	Pass
		5825	-6.52	<=30	Pass
802.11ac (VHT40)	SISO	5755	-7.37	<=30	Pass
		5795	-8.45	<=30	Pass

Note1: Antenna Gain: Ant1: 1.25dBi;

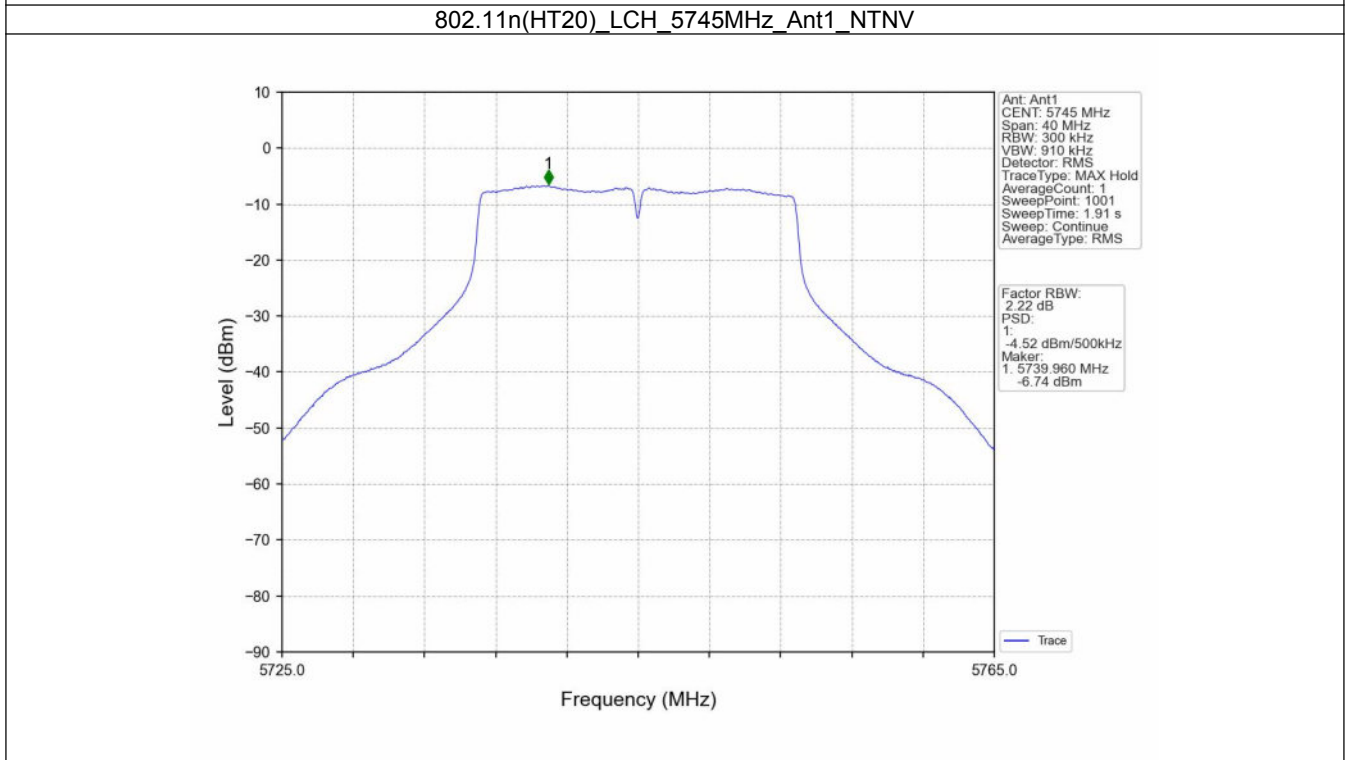
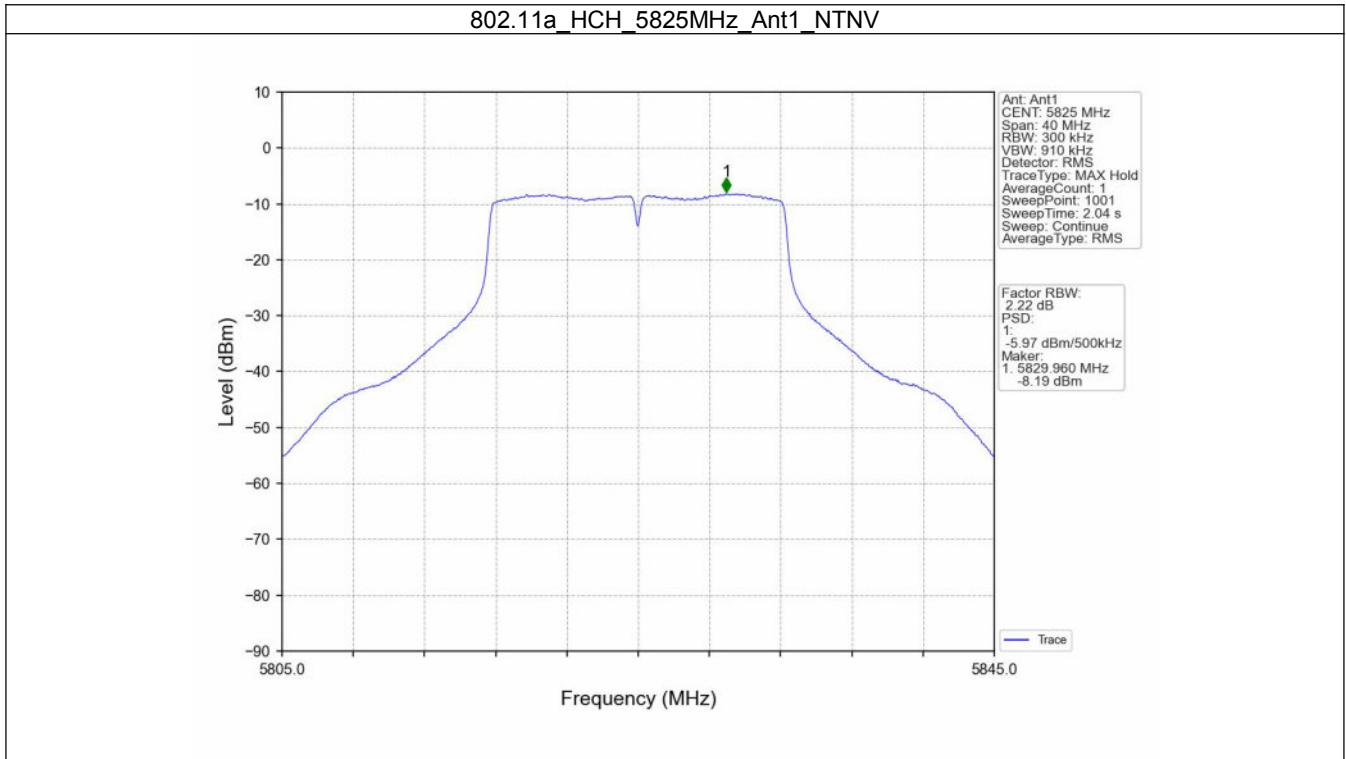
FCC ID: 2ASC7TAB702

3.2 Test Graph

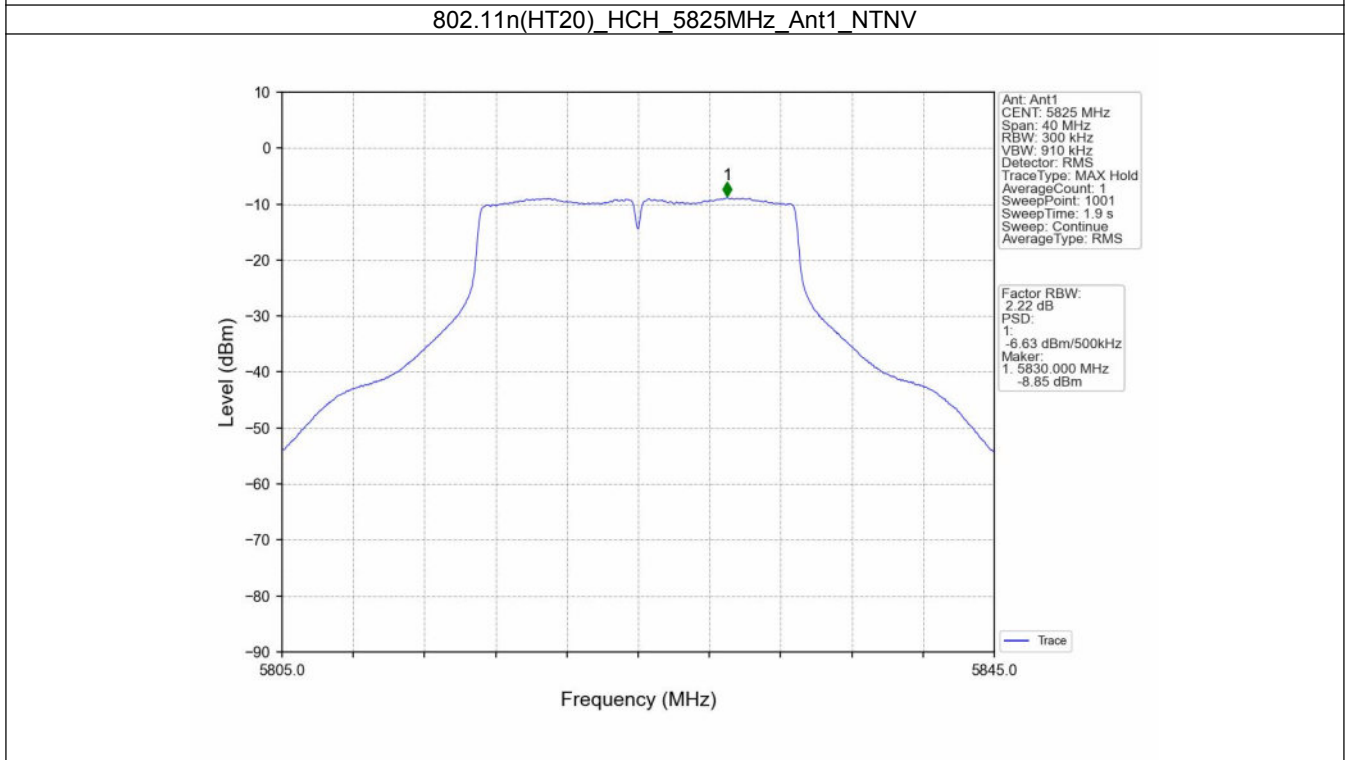
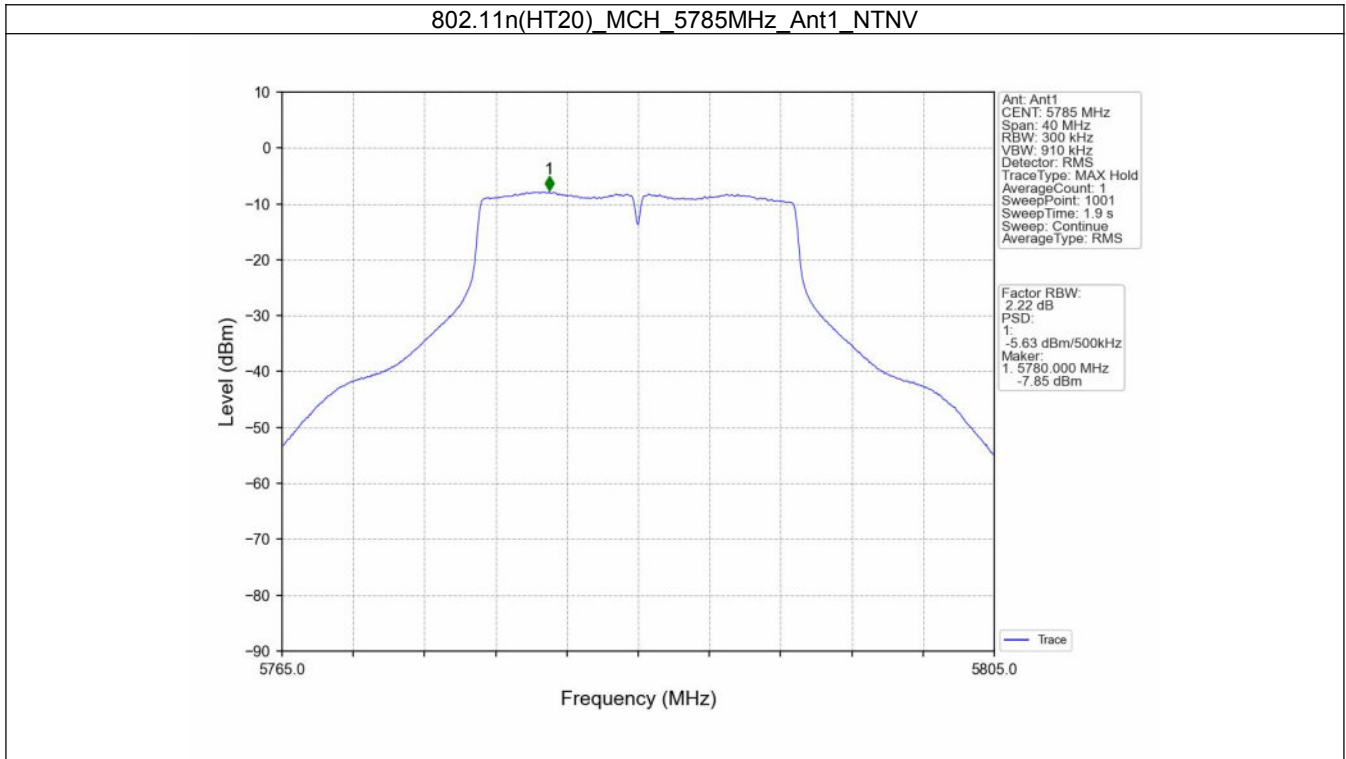
3.2.1 PSD-Band3



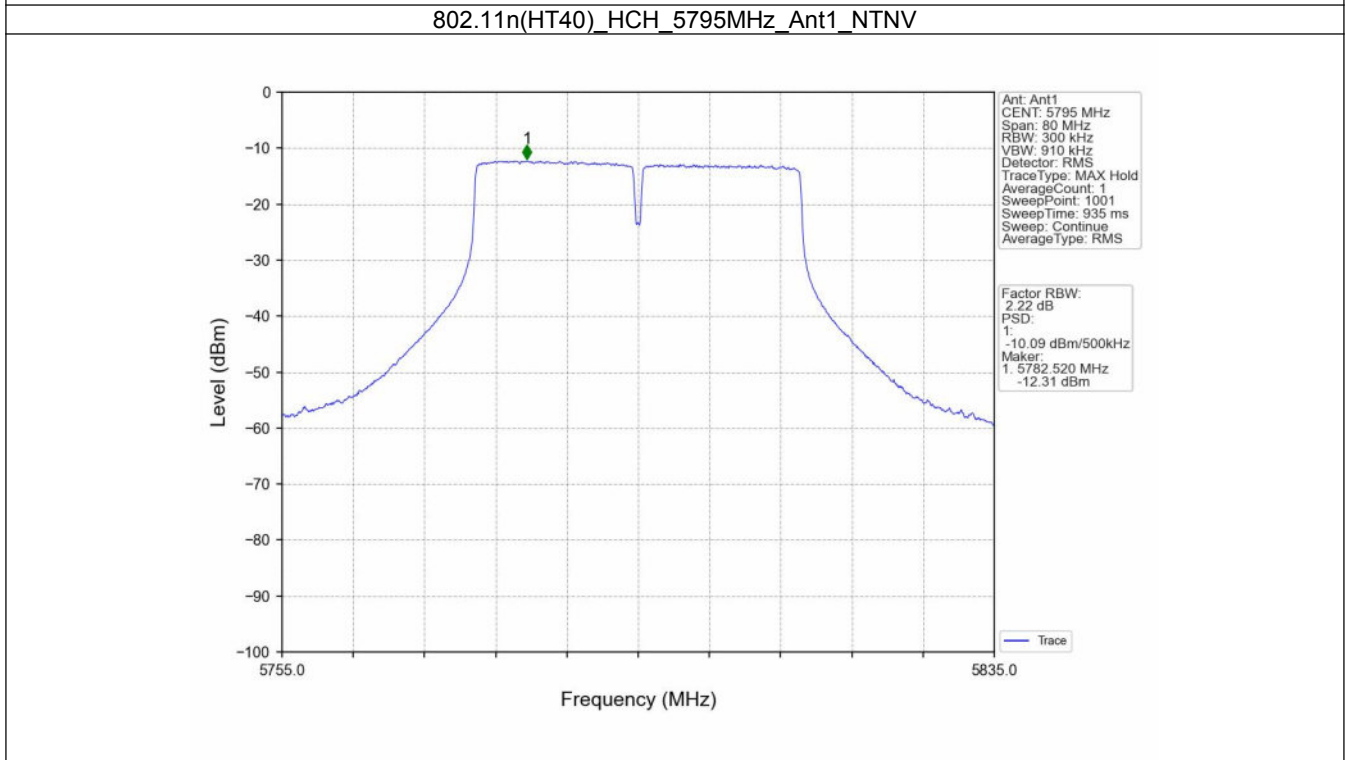
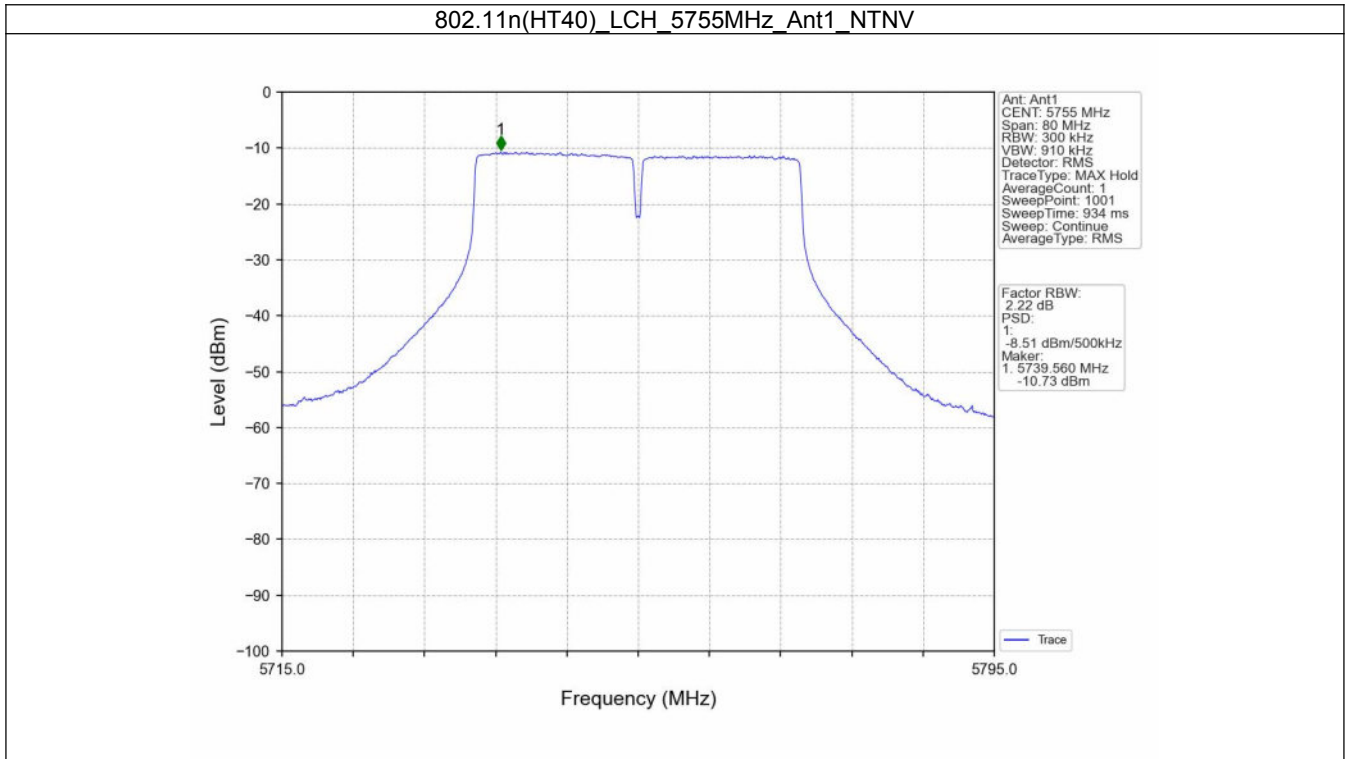
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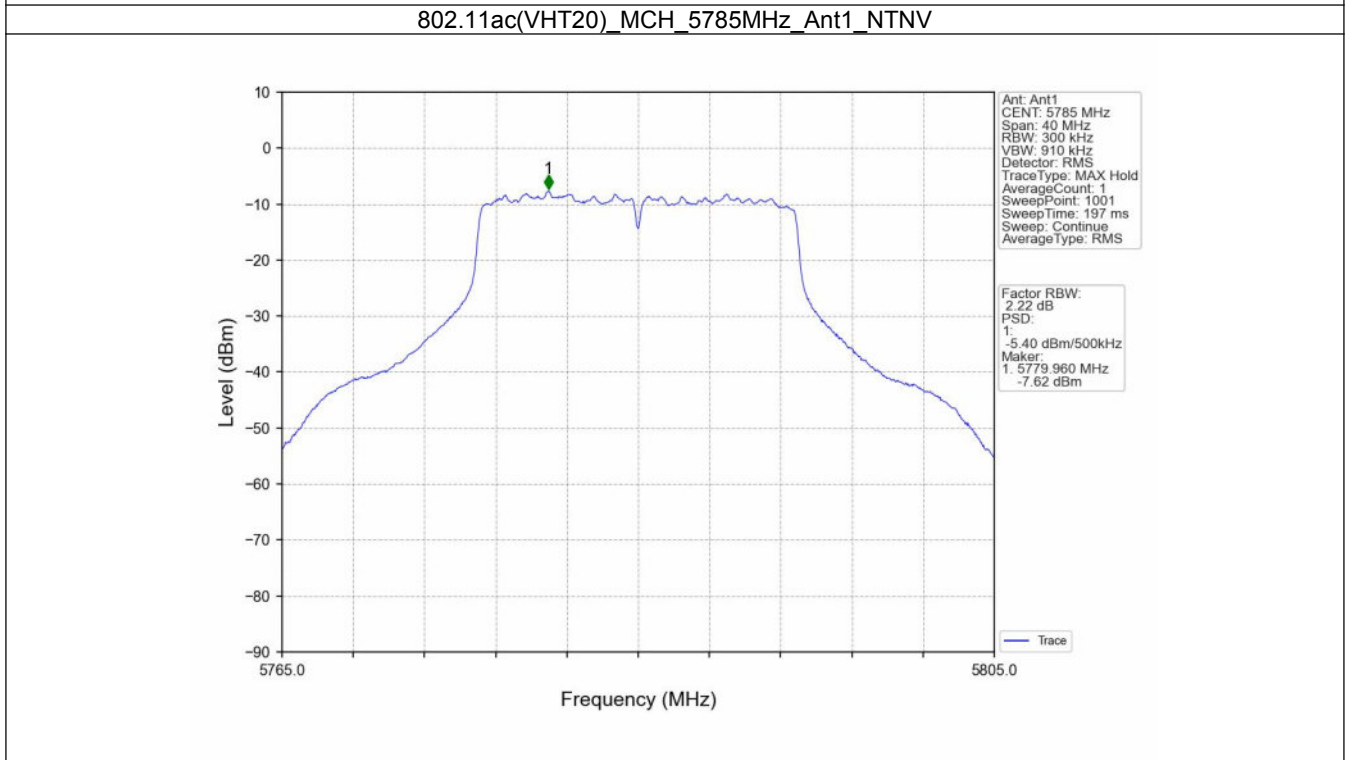
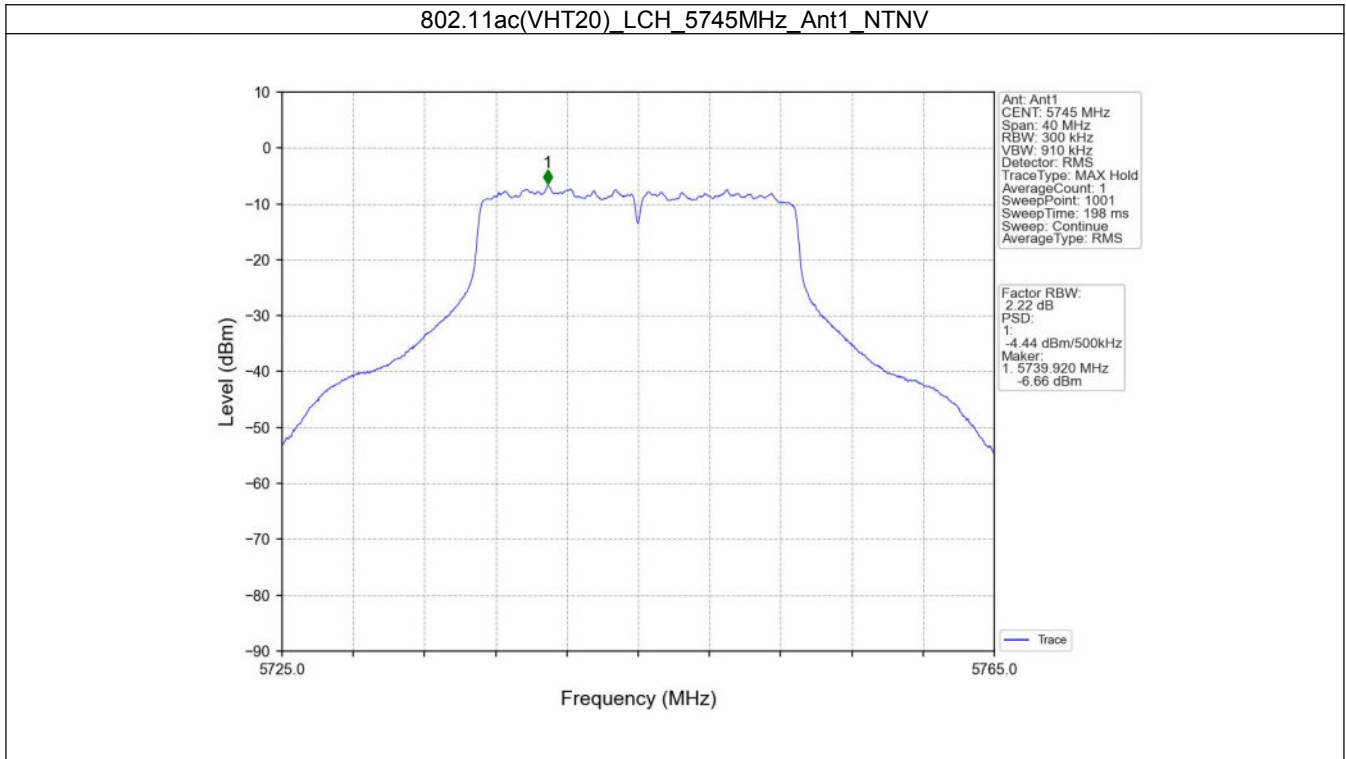
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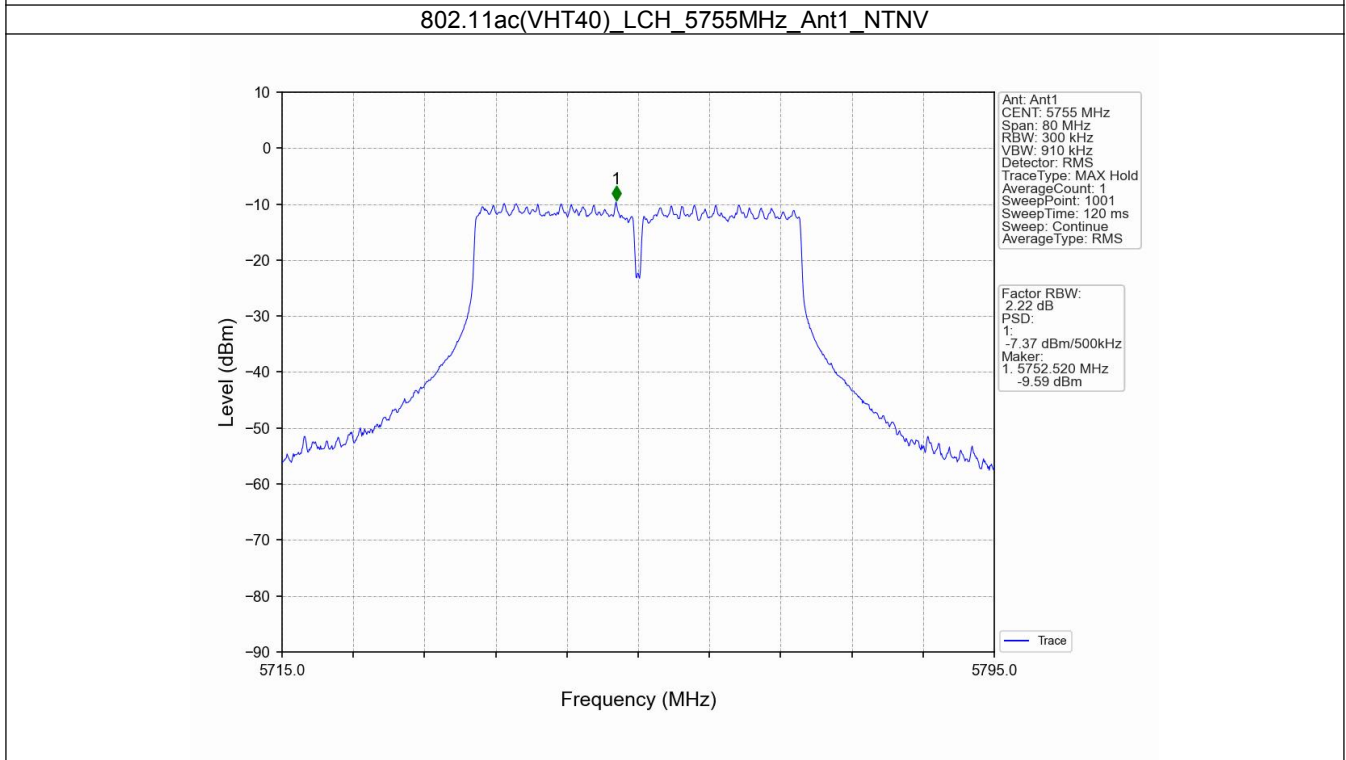
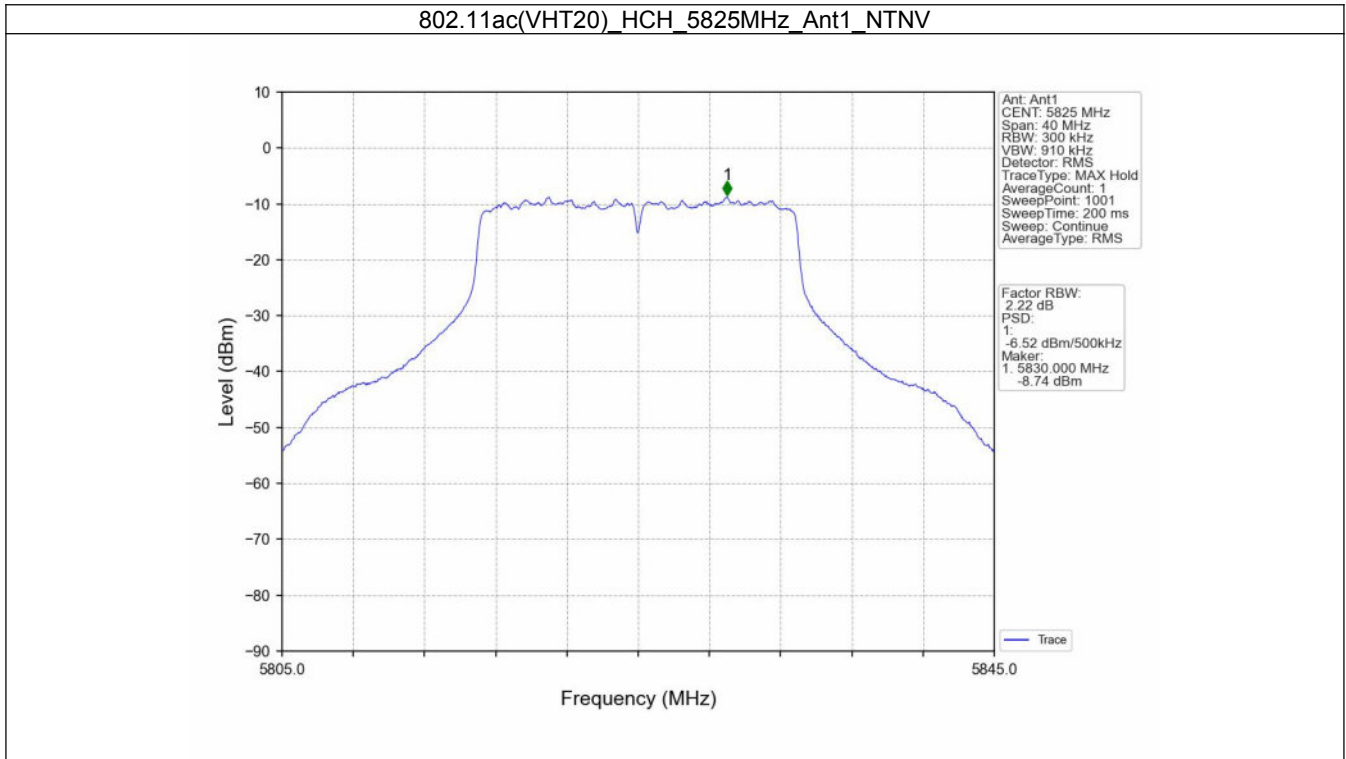
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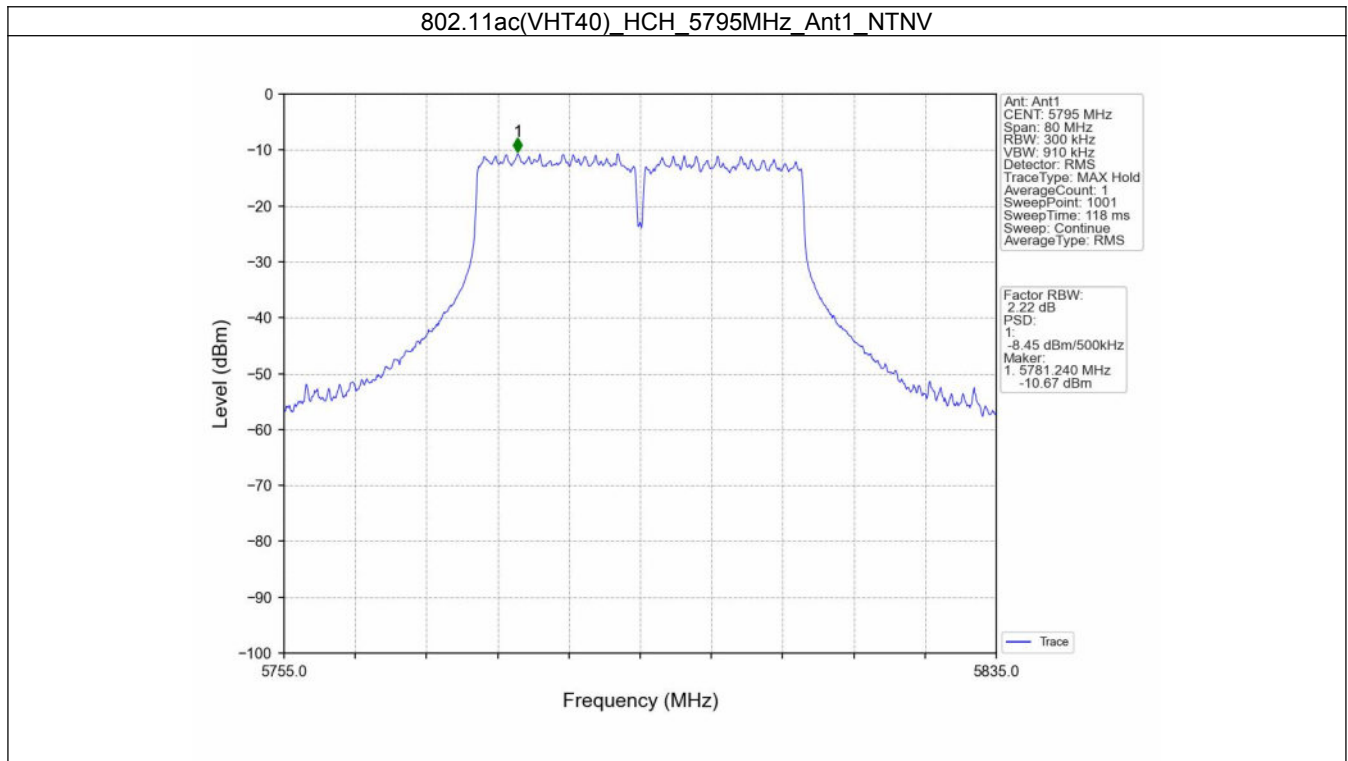
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4. Frequency Stability

4.1 Test Result

4.1.1 Ant1

Ant1									
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VAC)	Measured Frequency (MHz)	Limit (MHz)	Verdict		
802.11a	SISO	5745	20	102	5746.000	5725 to 5850	Pass		
				120	5746.000	5725 to 5850	Pass		
				138	5746.000	5725 to 5850	Pass		
			5785	20	102	5786.000	5725 to 5850	Pass	
					120	5786.000	5725 to 5850	Pass	
					138	5786.000	5725 to 5850	Pass	
				5825	20	102	5826.000	5725 to 5850	Pass
						120	5826.000	5725 to 5850	Pass
						138	5826.000	5725 to 5850	Pass
		5745			20	102	5746.000	5725 to 5850	Pass
						120	5746.000	5725 to 5850	Pass
						138	5746.000	5725 to 5850	Pass
			5785		20	102	5786.000	5725 to 5850	Pass
						120	5786.000	5725 to 5850	Pass
						138	5786.000	5725 to 5850	Pass

FCC ID: 2ASC7TAB702

		5825	-30	120	5786.000	5725 to 5850	Pass
			-20	120	5786.000	5725 to 5850	Pass
			-10	120	5786.000	5725 to 5850	Pass
			0	120	5786.000	5725 to 5850	Pass
			10	120	5786.000	5725 to 5850	Pass
			30	120	5786.000	5725 to 5850	Pass
			40	120	5786.000	5725 to 5850	Pass
		50	120	5786.000	5725 to 5850	Pass	
		20	102	5826.000	5725 to 5850	Pass	
			120	5826.000	5725 to 5850	Pass	
			138	5826.000	5725 to 5850	Pass	
			-30	120	5826.000	5725 to 5850	Pass
			-20	120	5826.000	5725 to 5850	Pass
			-10	120	5826.000	5725 to 5850	Pass
			0	120	5826.000	5725 to 5850	Pass
			10	120	5826.000	5725 to 5850	Pass
			30	120	5826.000	5725 to 5850	Pass
			40	120	5826.000	5725 to 5850	Pass
			50	120	5826.000	5725 to 5850	Pass
802.11n (HT40)	SISO		5755	20	102	5756.080	5725 to 5850
		120			5756.080	5725 to 5850	Pass
		138			5756.080	5725 to 5850	Pass
		-30		120	5756.080	5725 to 5850	Pass
		-20		120	5756.080	5725 to 5850	Pass
		-10		120	5756.080	5725 to 5850	Pass
		0		120	5756.080	5725 to 5850	Pass
		10		120	5756.080	5725 to 5850	Pass
		30		120	5756.080	5725 to 5850	Pass
		40		120	5756.080	5725 to 5850	Pass
		50		120	5756.080	5725 to 5850	Pass
		5795		20	102	5796.080	5725 to 5850
			120		5796.080	5725 to 5850	Pass
			138		5796.080	5725 to 5850	Pass
			-30	120	5796.080	5725 to 5850	Pass
			-20	120	5796.080	5725 to 5850	Pass
			-10	120	5796.080	5725 to 5850	Pass
			0	120	5796.080	5725 to 5850	Pass
		10	120	5796.080	5725 to 5850	Pass	
30	120	5796.080	5725 to 5850	Pass			
40	120	5796.080	5725 to 5850	Pass			
50	120	5796.080	5725 to 5850	Pass			
802.11ac (VHT20)	SISO	5745	20	102	5746.000	5725 to 5850	Pass
				120	5746.000	5725 to 5850	Pass
				138	5746.000	5725 to 5850	Pass
			-30	120	5746.000	5725 to 5850	Pass
			-20	120	5746.000	5725 to 5850	Pass
			-10	120	5746.000	5725 to 5850	Pass
			0	120	5746.000	5725 to 5850	Pass
			10	120	5746.000	5725 to 5850	Pass
			30	120	5746.020	5725 to 5850	Pass
			40	120	5746.000	5725 to 5850	Pass
			50	120	5746.000	5725 to 5850	Pass
			5785	20	102	5786.000	5725 to 5850
		120			5786.000	5725 to 5850	Pass
		138			5786.000	5725 to 5850	Pass
		-30		120	5786.000	5725 to 5850	Pass
		-20		120	5786.000	5725 to 5850	Pass

FCC ID: 2ASC7TAB702

			-10	120	5786.000	5725 to 5850	Pass			
			0	120	5786.000	5725 to 5850	Pass			
			10	120	5786.000	5725 to 5850	Pass			
			30	120	5786.000	5725 to 5850	Pass			
			40	120	5786.000	5725 to 5850	Pass			
		50	120	5786.000	5725 to 5850	Pass				
		5825	20	102	5826.000	5725 to 5850	Pass			
				120	5826.000	5725 to 5850	Pass			
				138	5826.000	5725 to 5850	Pass			
			-30	120	5826.000	5725 to 5850	Pass			
			-20	120	5826.000	5725 to 5850	Pass			
			-10	120	5826.000	5725 to 5850	Pass			
			0	120	5826.000	5725 to 5850	Pass			
			10	120	5826.000	5725 to 5850	Pass			
			30	120	5826.000	5725 to 5850	Pass			
			40	120	5826.000	5725 to 5850	Pass			
			50	120	5826.000	5725 to 5850	Pass			
			802.11ac (VHT40)	SISO	5755	20	102	5756.080	5725 to 5850	Pass
							120	5756.080	5725 to 5850	Pass
138	5756.080						5725 to 5850	Pass		
-30	120	5756.080				5725 to 5850	Pass			
-20	120	5756.080				5725 to 5850	Pass			
-10	120	5756.080				5725 to 5850	Pass			
0	120	5756.080				5725 to 5850	Pass			
10	120	5756.080				5725 to 5850	Pass			
30	120	5756.080				5725 to 5850	Pass			
40	120	5756.080				5725 to 5850	Pass			
50	120	5756.080				5725 to 5850	Pass			
5795	20	102				5796.080	5725 to 5850	Pass		
		120				5796.080	5725 to 5850	Pass		
		138				5796.080	5725 to 5850	Pass		
	-30	120			5796.080	5725 to 5850	Pass			
	-20	120			5796.080	5725 to 5850	Pass			
	-10	120			5796.080	5725 to 5850	Pass			
0	120	5796.080			5725 to 5850	Pass				
10	120	5796.080			5725 to 5850	Pass				
30	120	5796.080			5725 to 5850	Pass				
40	120	5796.080	5725 to 5850	Pass						
50	120	5796.080	5725 to 5850	Pass						