

Appendix B for KSCR210900016902

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	1.392	1.460	95.34	0.21	0.03
		5200	1.391	1.459	95.34	0.21	0.03
		5240	1.391	1.459	95.34	0.21	0.03
		5745	1.392	1.460	95.34	0.21	0.03
		5785	1.392	1.461	95.28	0.21	0.03
		5825	1.392	1.460	95.34	0.21	0.03
802.11n (HT20)	SISO	5180	5.084	5.152	98.68	0.06	0.00
		5200	5.083	5.152	98.66	0.06	0.04
		5240	5.083	5.152	98.66	0.06	0.04
		5745	5.083	5.152	98.66	0.06	0.04
		5785	5.083	5.152	98.66	0.06	0.04
802.11n (HT40)	SISO	5190	2.467	2.536	97.28	0.12	0.03
		5230	2.467	2.536	97.28	0.12	0.03
		5755	2.467	2.536	97.28	0.12	0.03
		5795	2.467	2.535	97.32	0.12	0.03

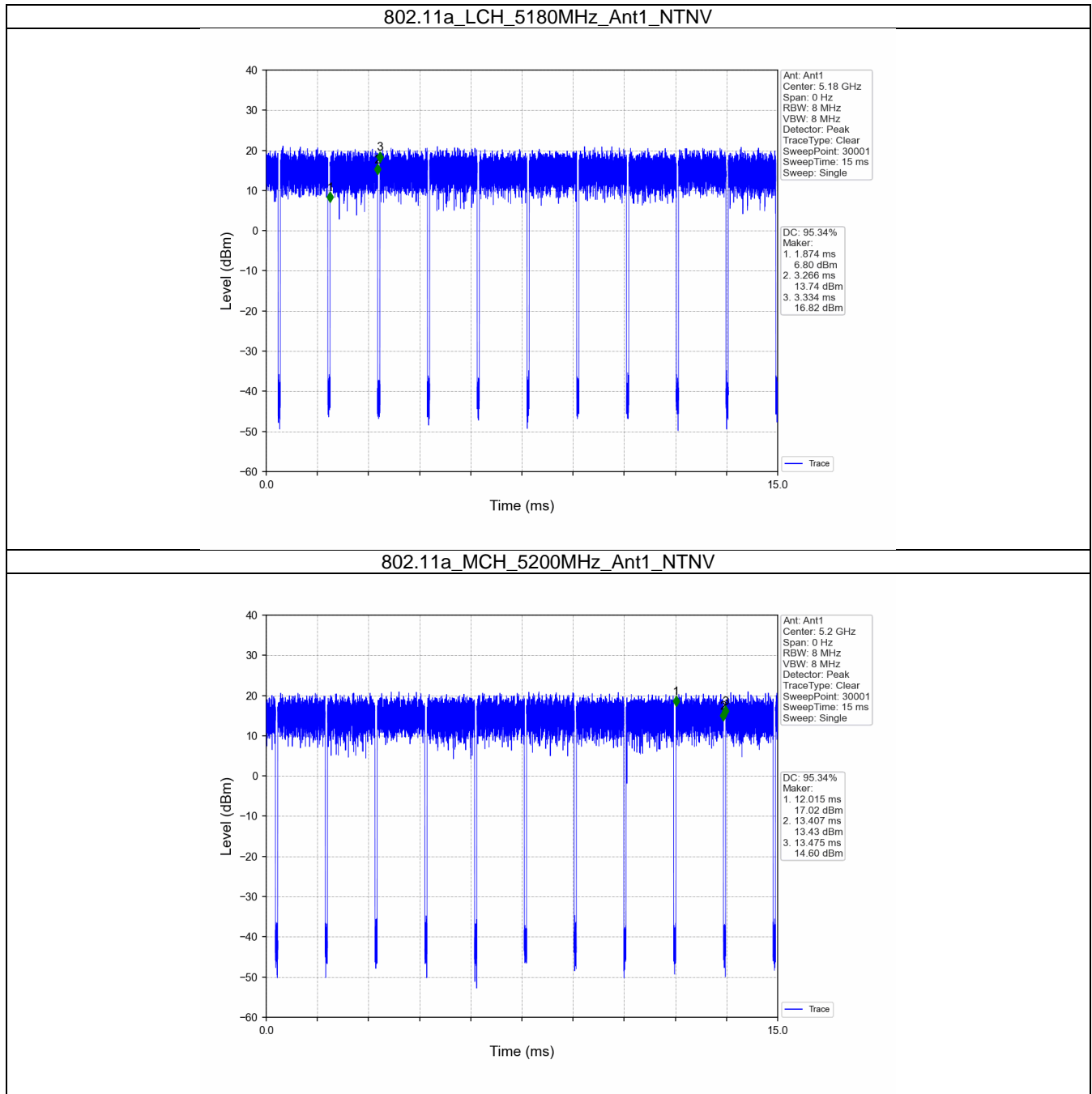


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1.1.2 Test Graph

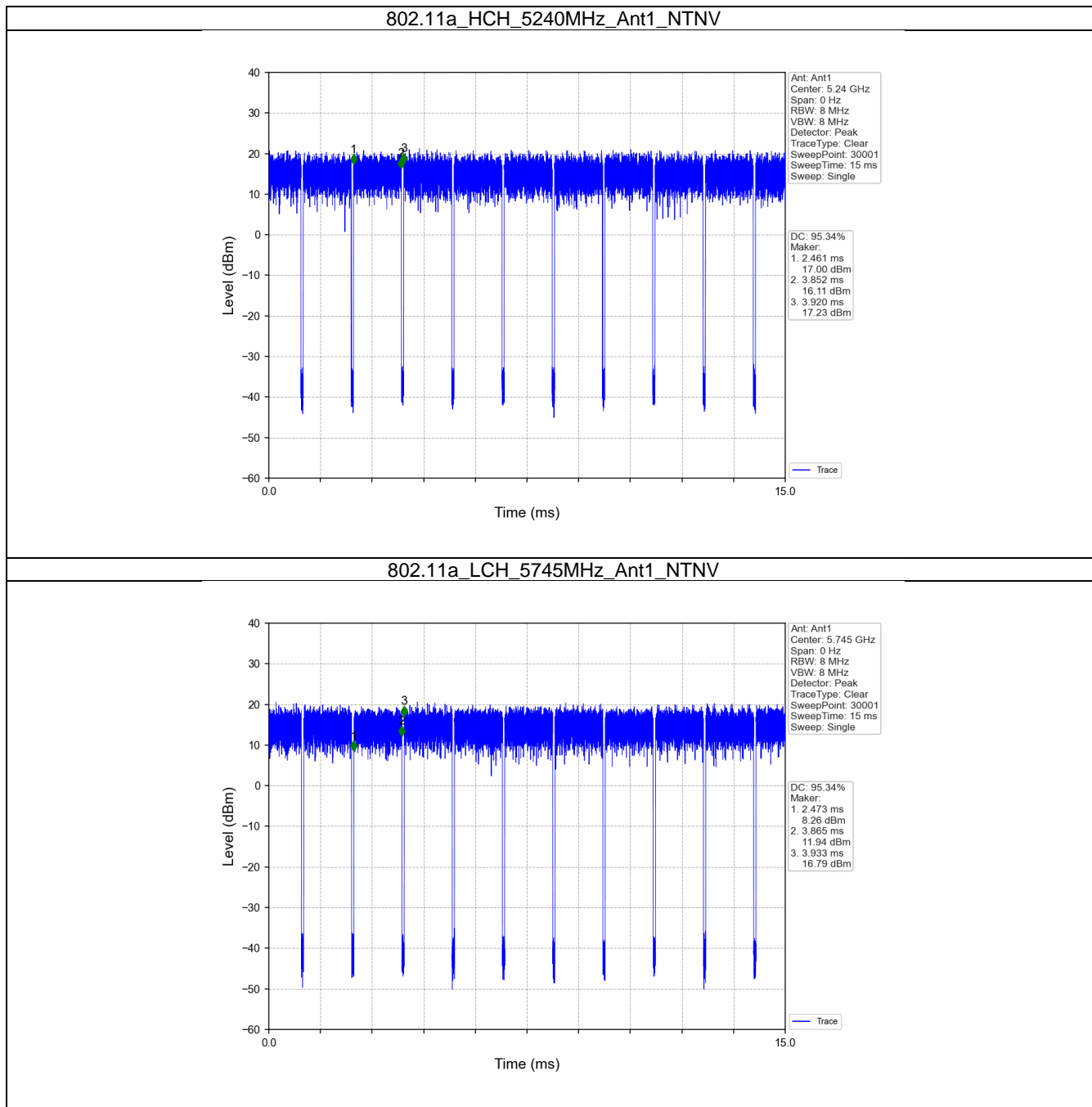


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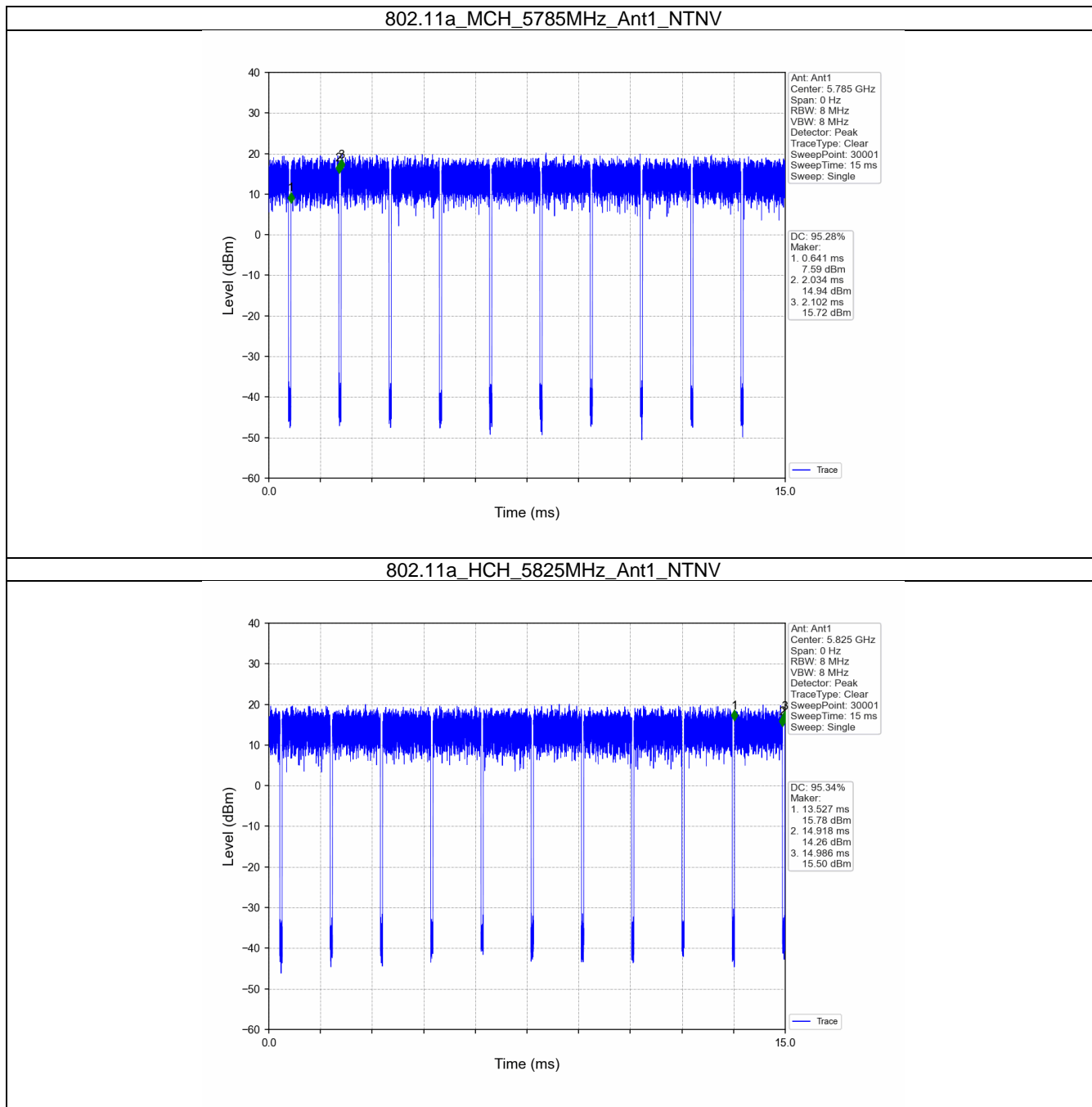


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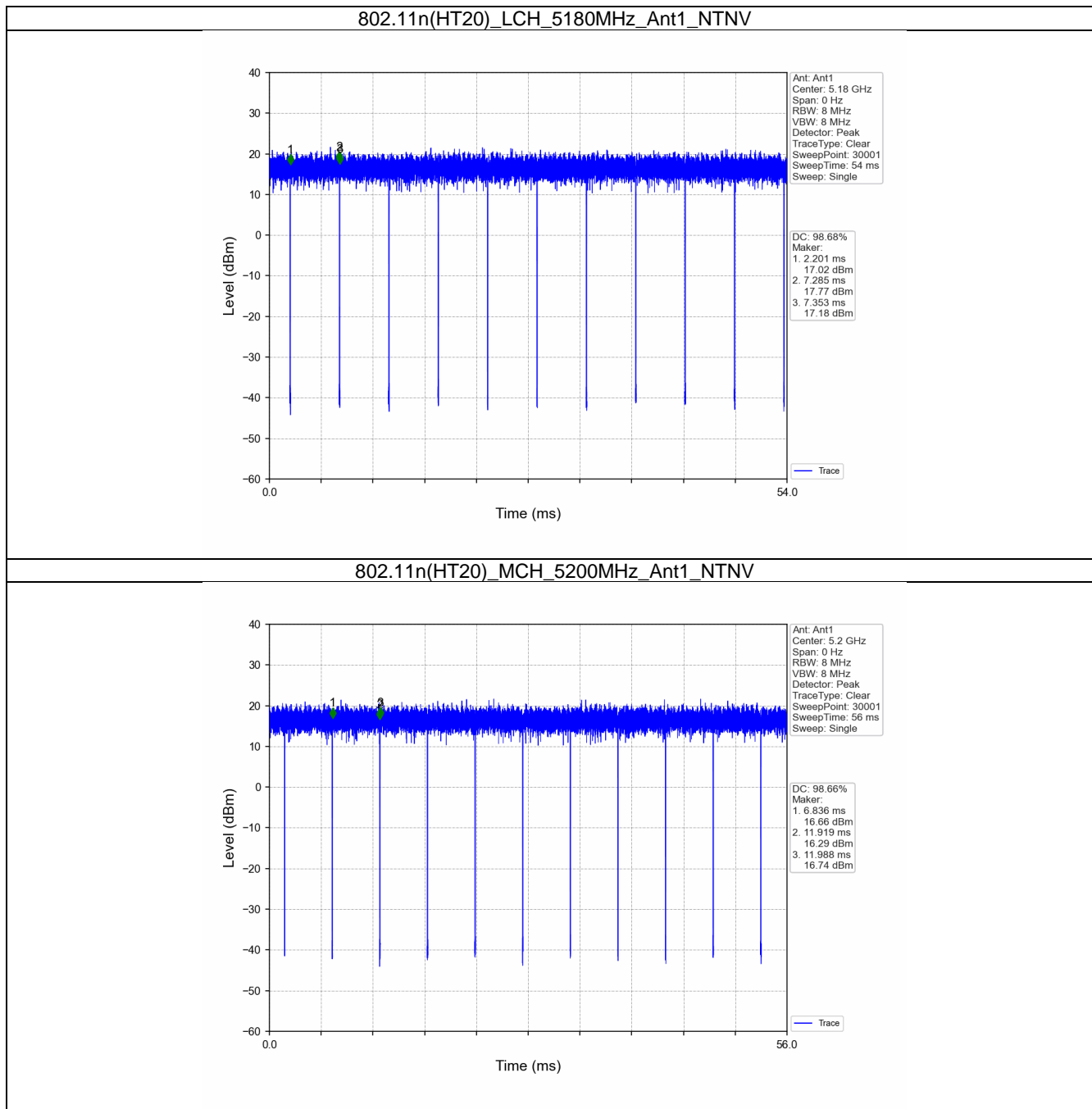


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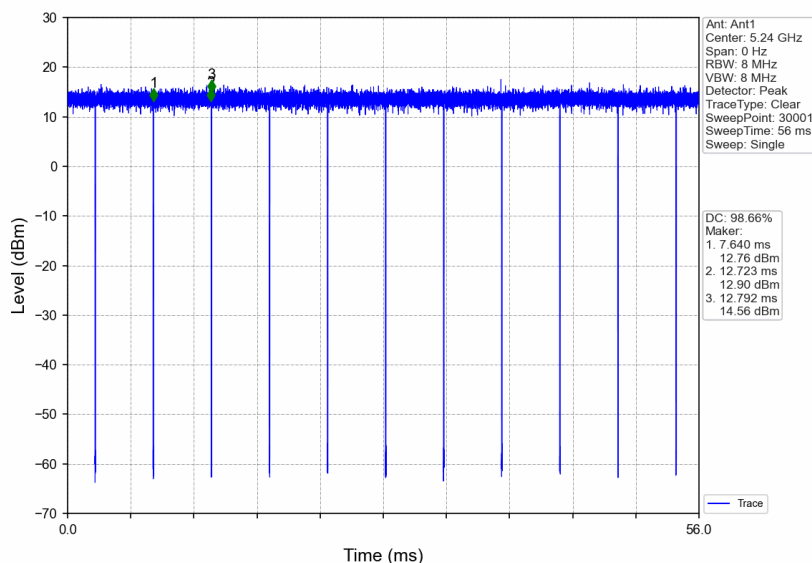
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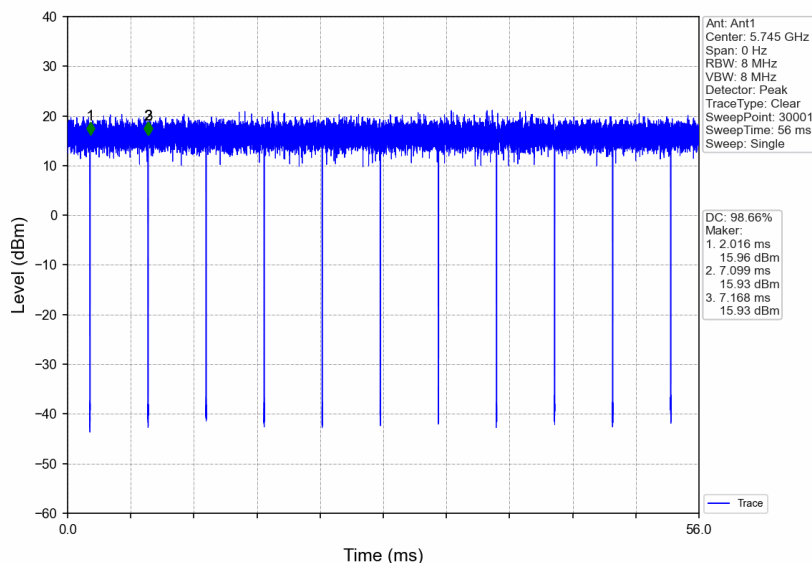
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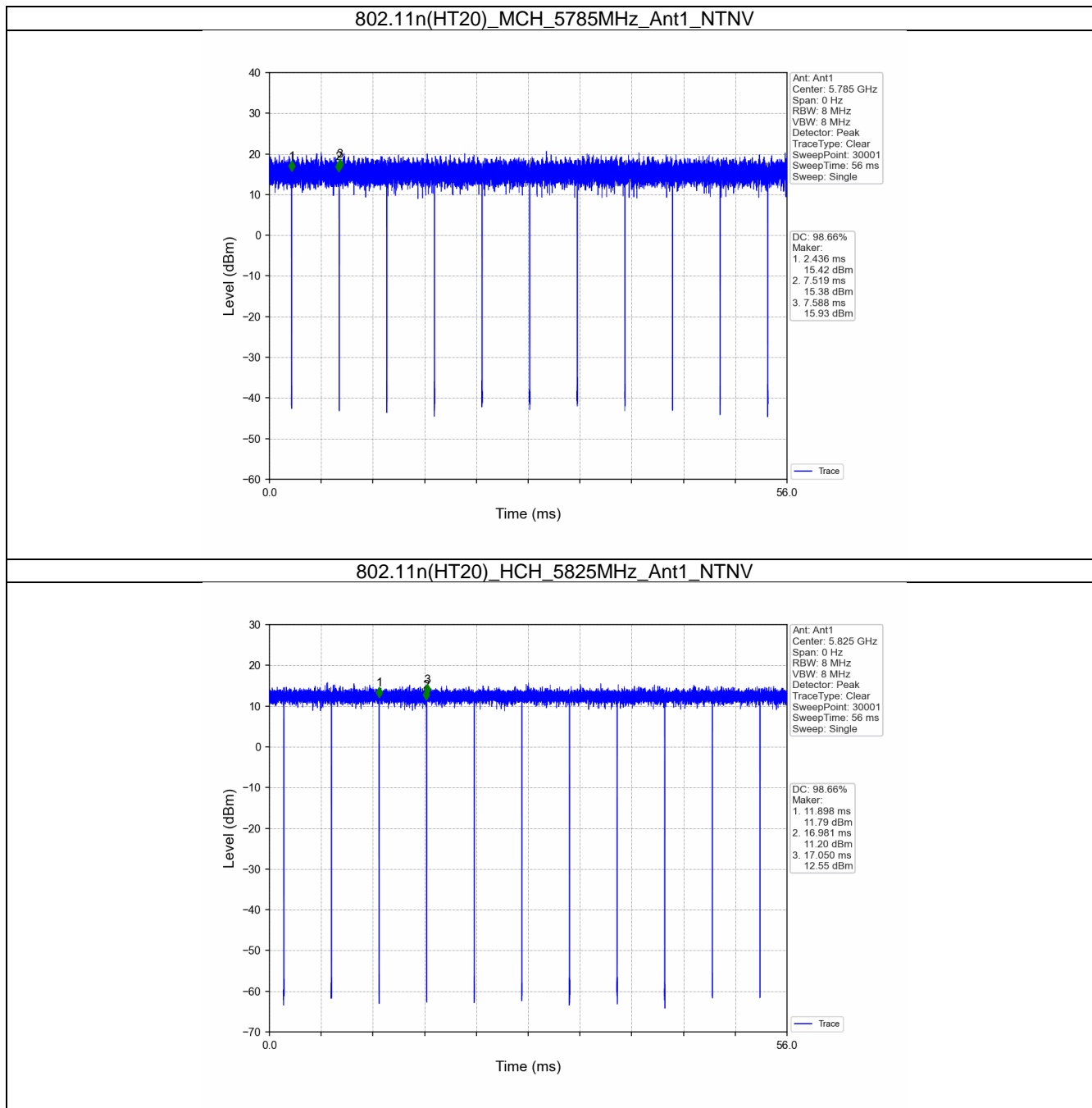
802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV



802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV



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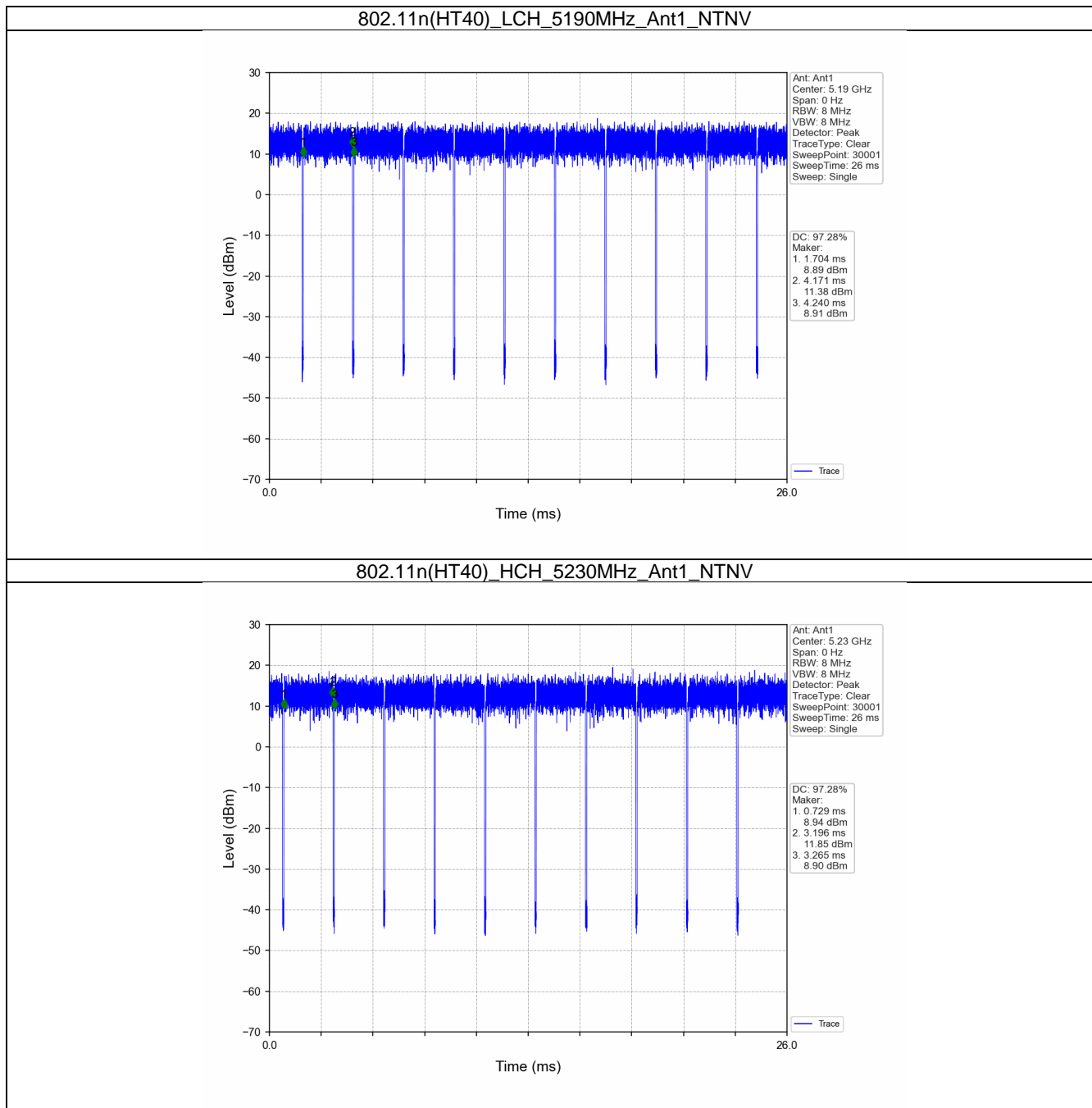


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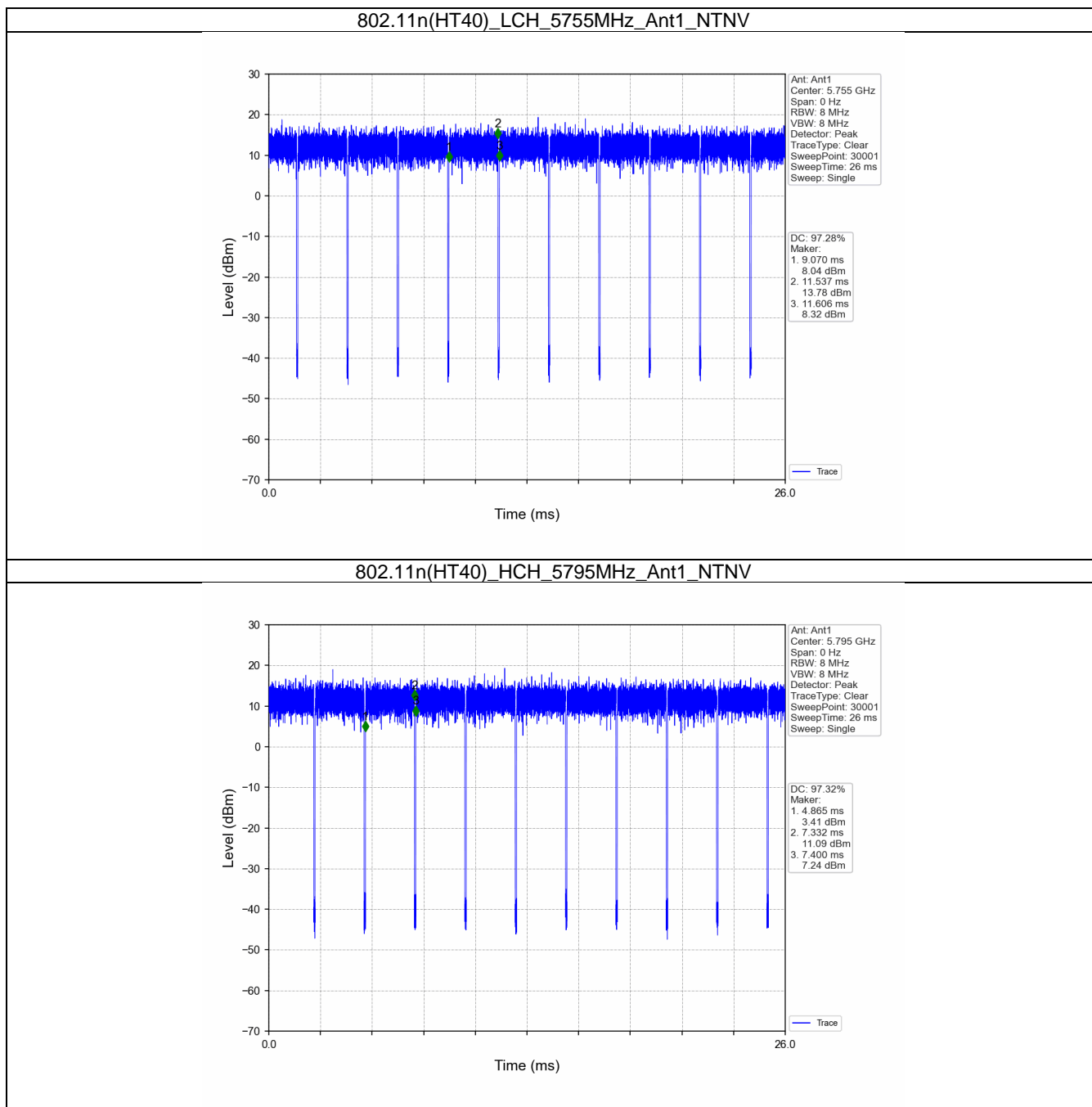
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## 2. Bandwidth

### 2.1 OBW

#### 2.1.1 Test Result

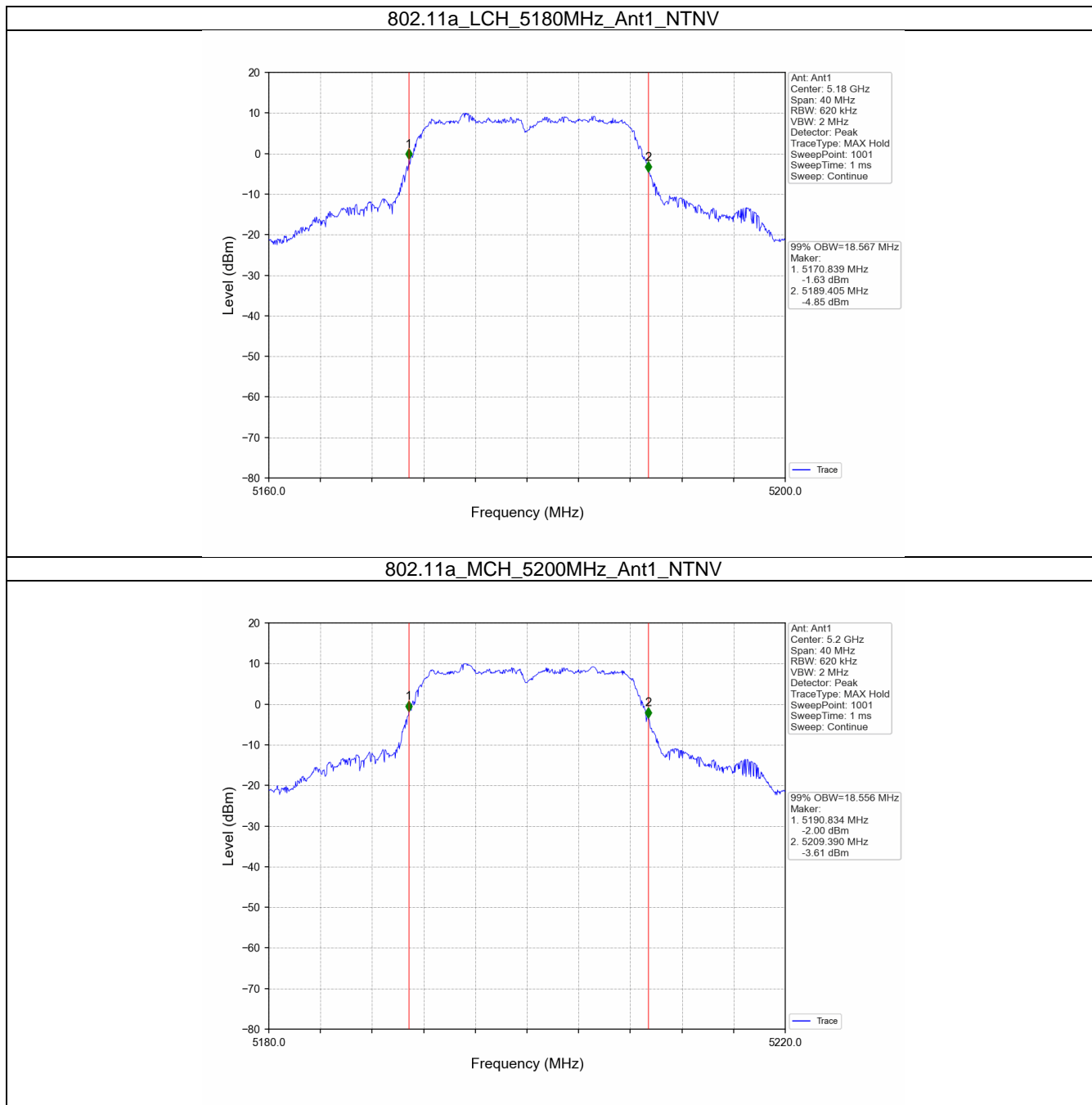
Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11a	SISO	5180	1	18.567	Pass
		5200	1	18.556	Pass
		5240	1	18.440	Pass
		5745	1	18.504	Pass
		5785	1	18.393	Pass
		5825	1	18.312	Pass
802.11n (HT20)	SISO	5180	1	20.103	Pass
		5200	1	19.861	Pass
		5240	1	19.623	Pass
		5745	1	19.870	Pass
		5785	1	19.697	Pass
		5825	1	19.384	Pass
802.11n (HT40)	SISO	5190	1	38.248	Pass
		5230	1	38.031	Pass
		5755	1	38.107	Pass
		5795	1	38.188	Pass



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2.1.2 Test Graph



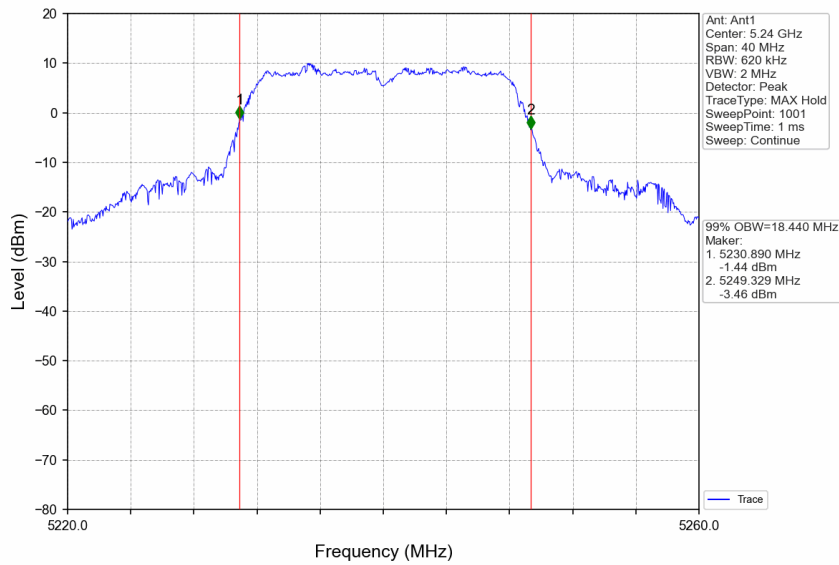
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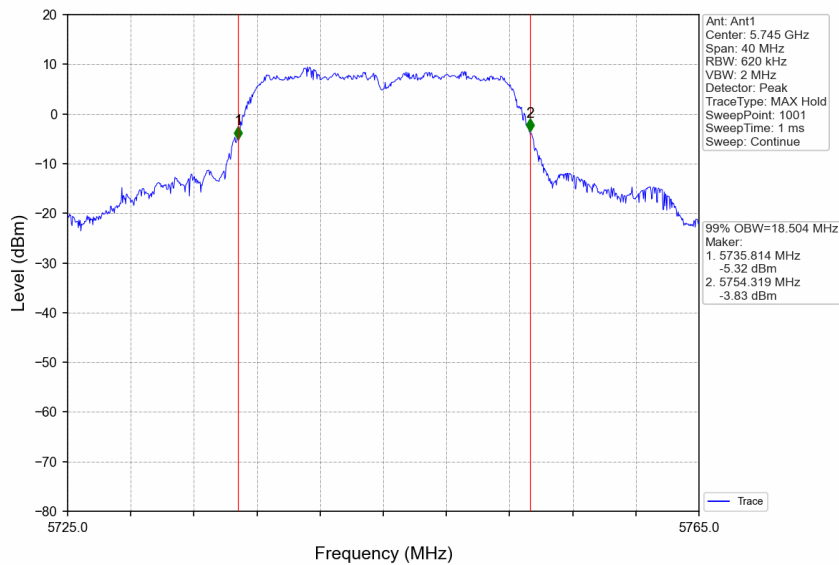
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802.11a\_HCH\_5240MHz\_Ant1\_NTNV

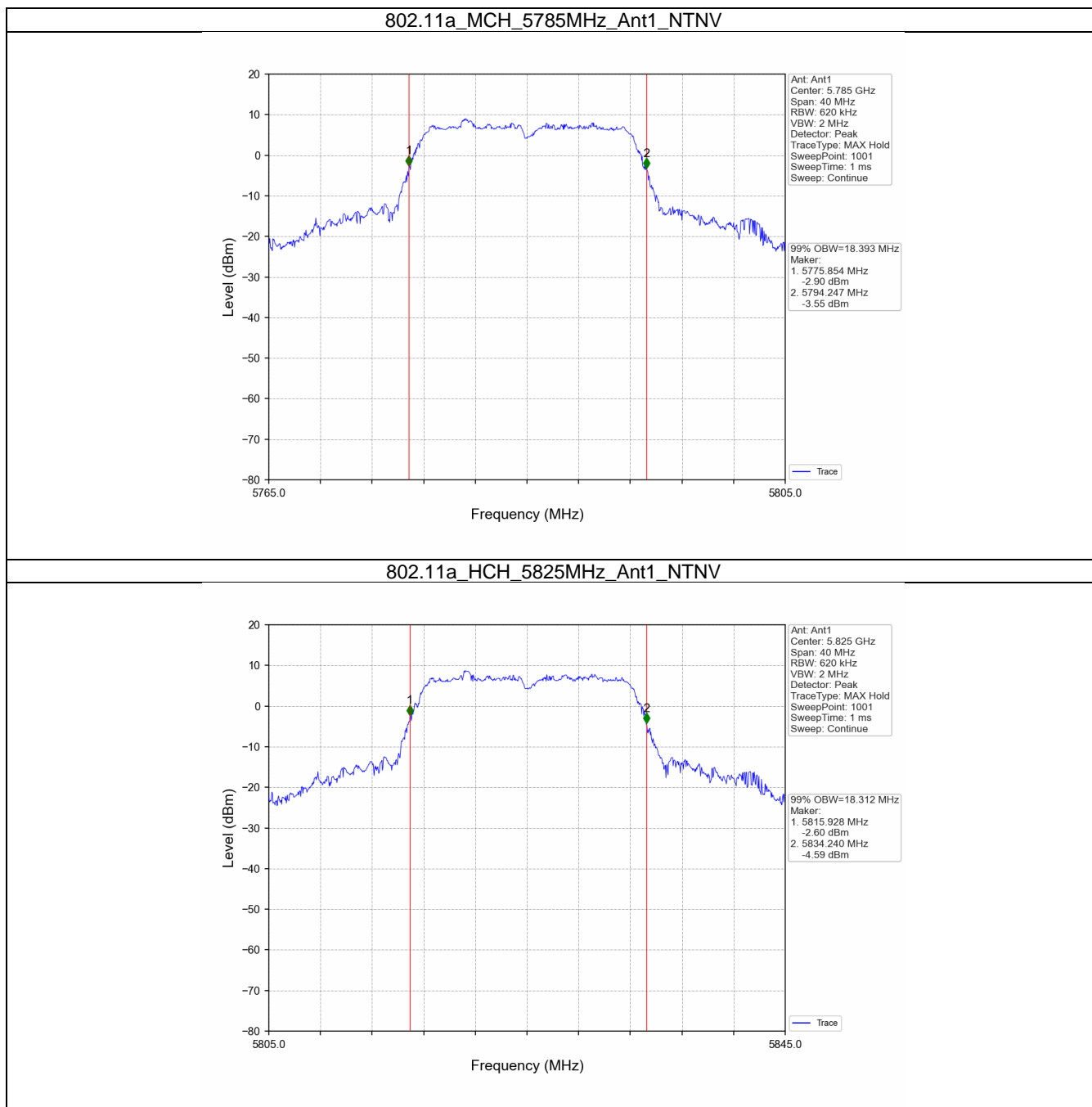


802.11a\_LCH\_5745MHz\_Ant1\_NTNV



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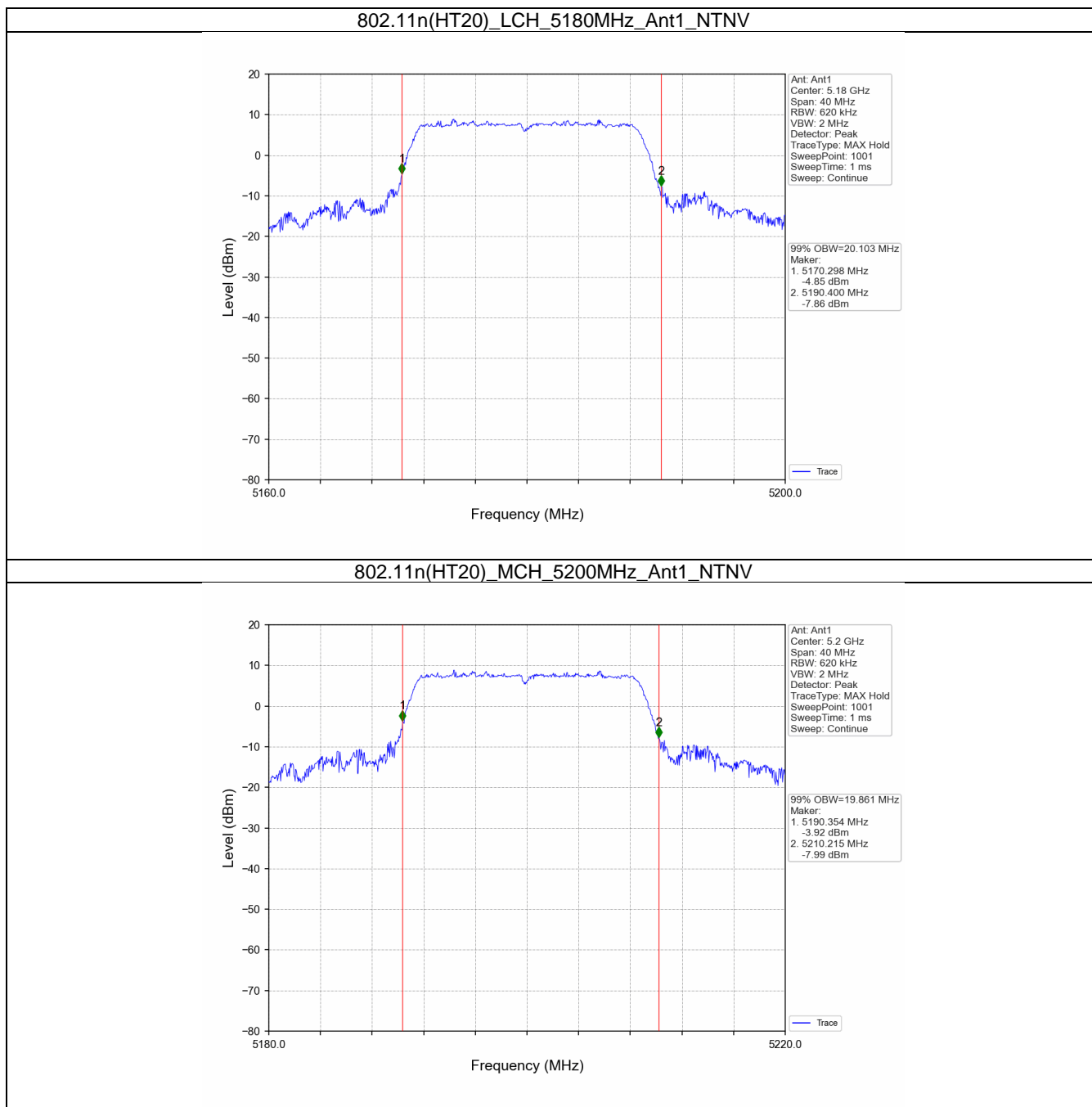


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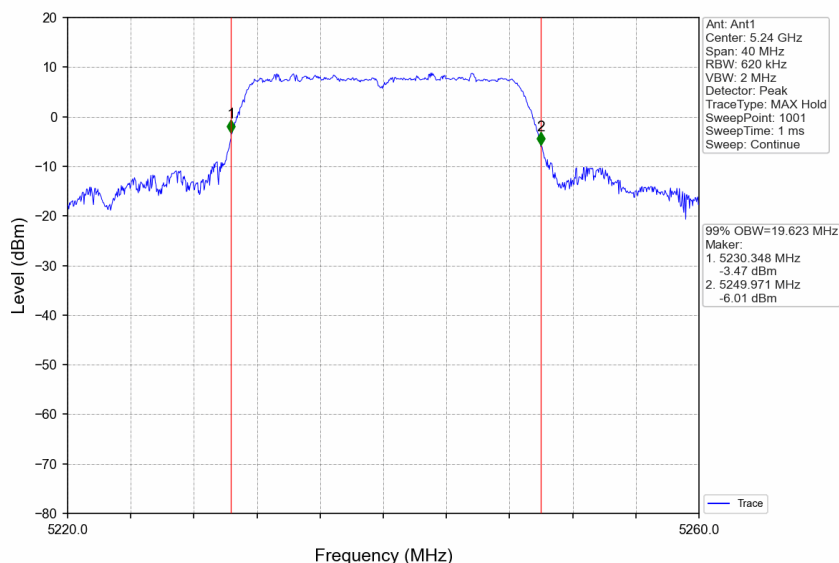
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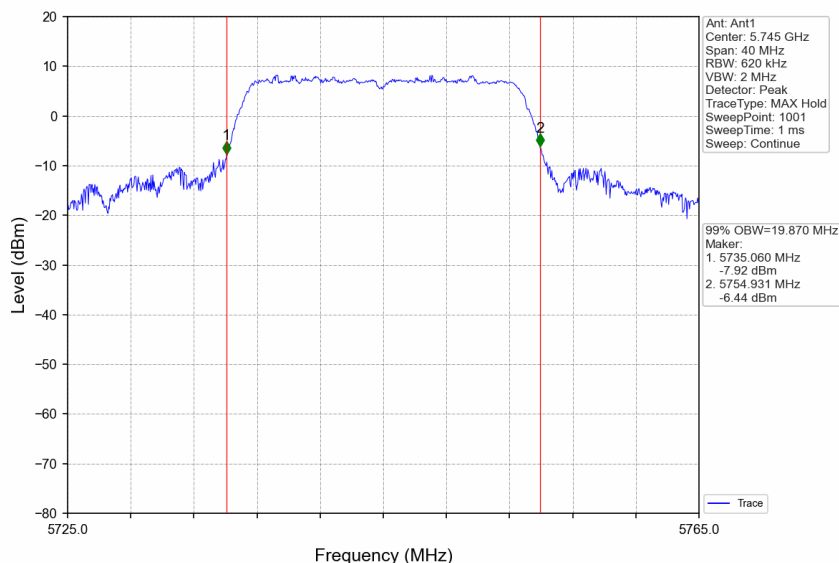
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802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV



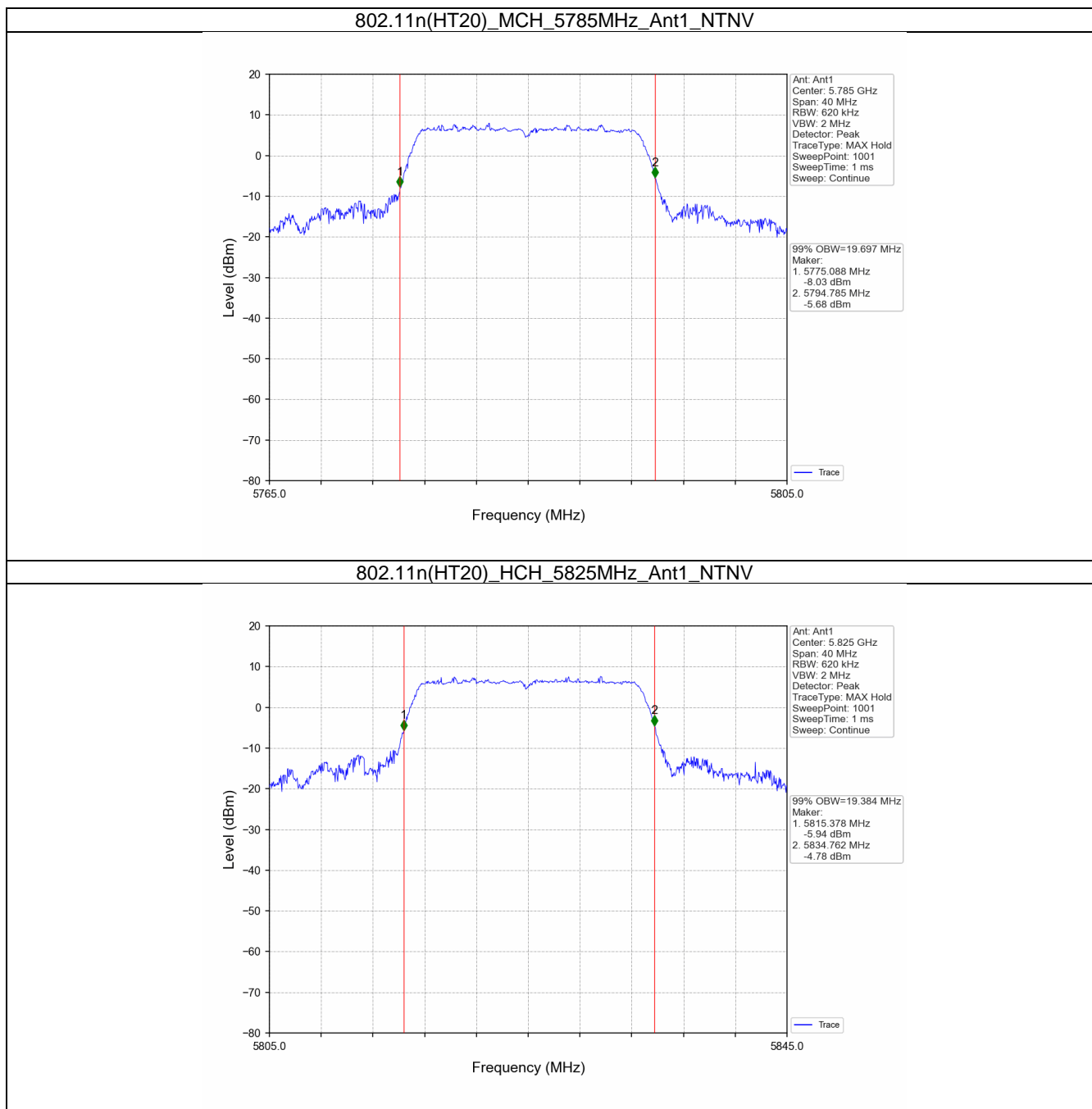
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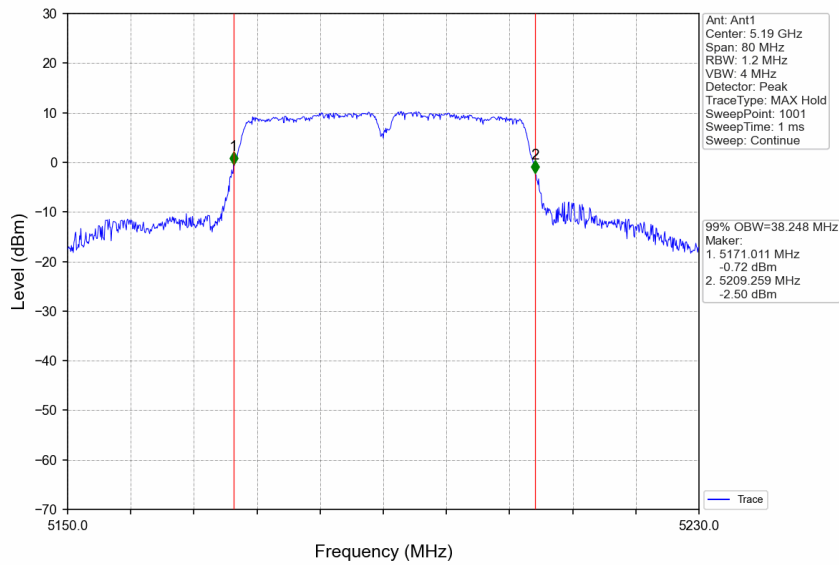
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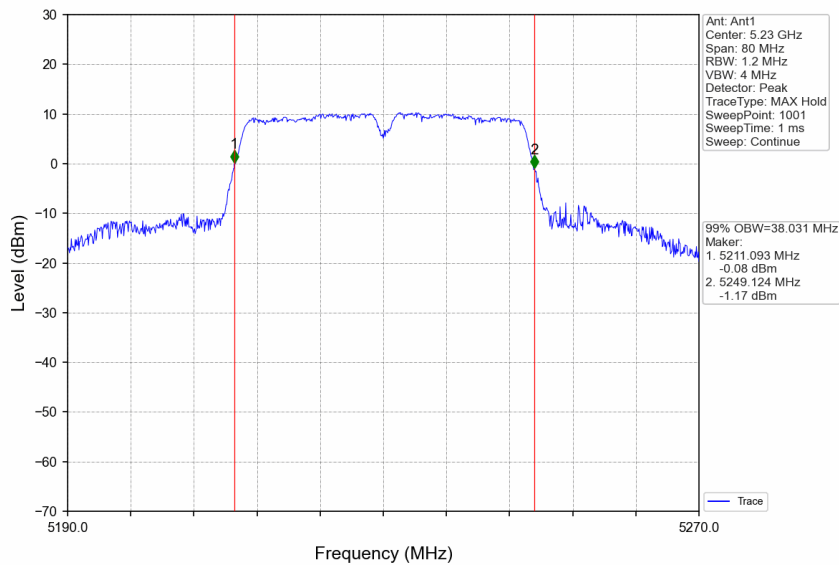
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802.11n(HT40)\_LCH\_5190MHz\_Ant1\_NTNV



802.11n(HT40)\_HCH\_5230MHz\_Ant1\_NTNV



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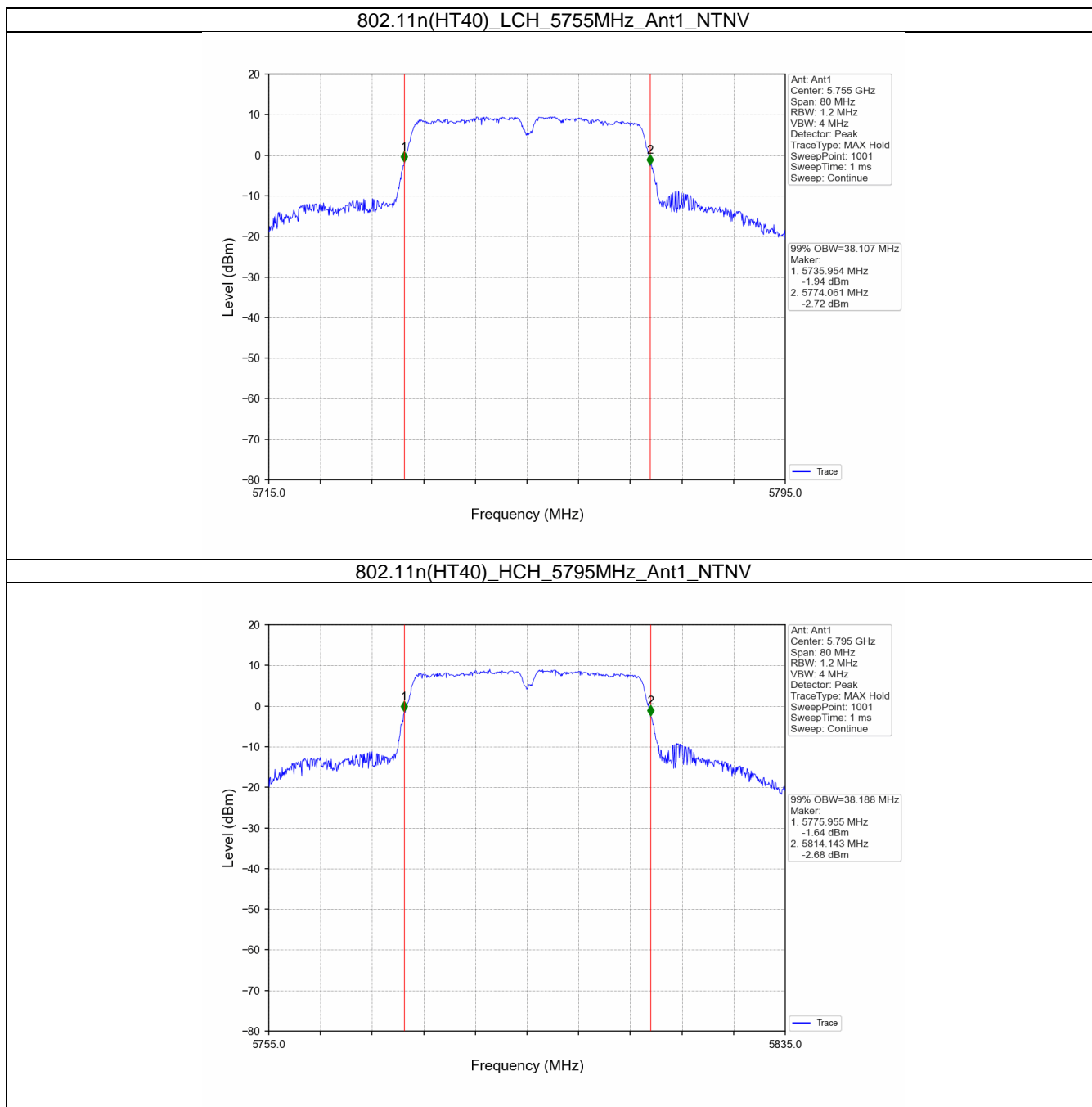
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2.2 6dB BW

2.2.1 Test Result

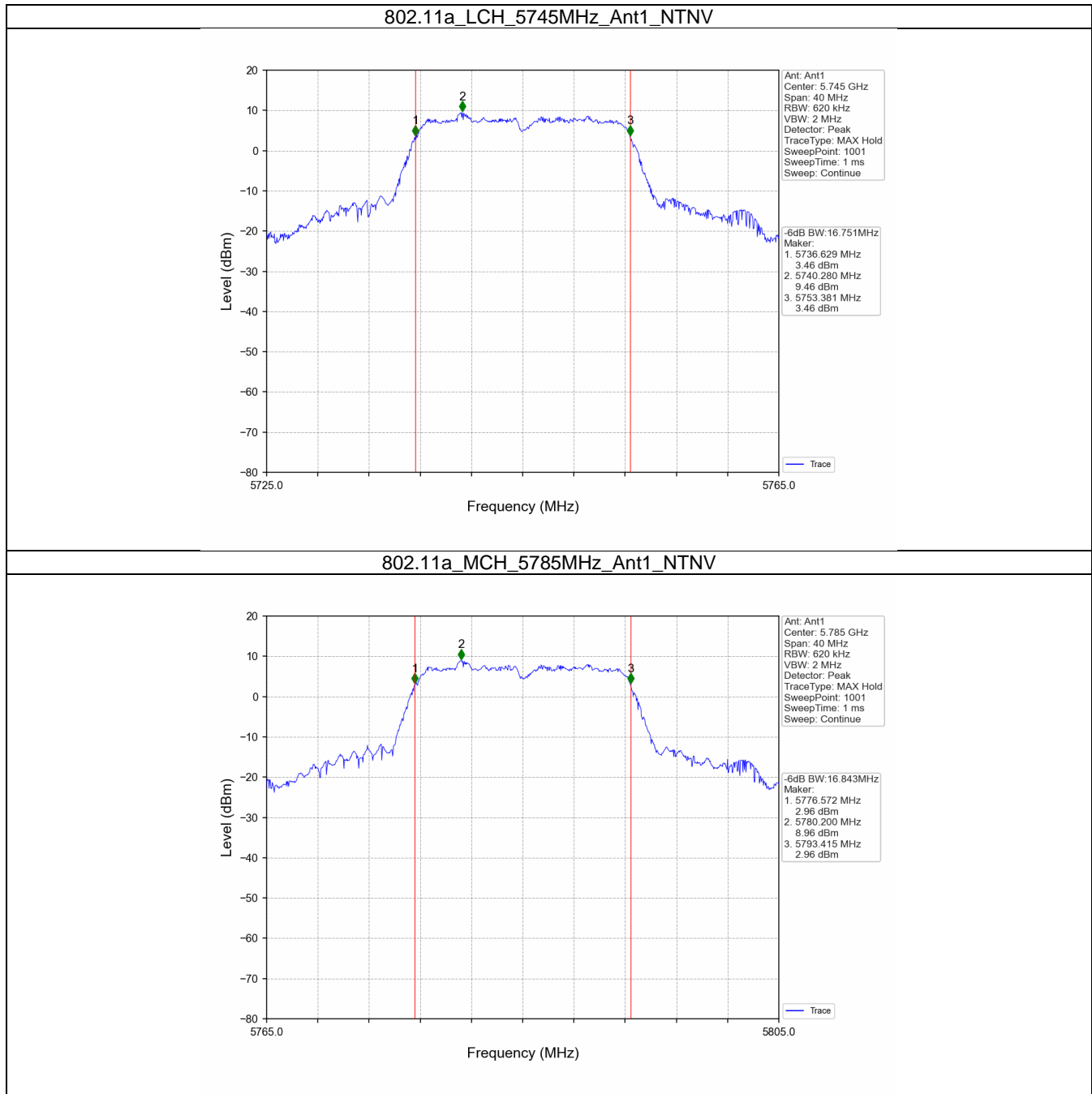
Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	16.751	>=0.5	Pass
		5785	1	16.843	>=0.5	Pass
		5825	1	16.814	>=0.5	Pass
802.11n (HT20)	SISO	5745	1	17.994	>=0.5	Pass
		5785	1	17.864	>=0.5	Pass
		5825	1	17.933	>=0.5	Pass
802.11n (HT40)	SISO	5755	1	36.362	>=0.5	Pass
		5795	1	36.435	>=0.5	Pass



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2.2.2 Test Graph

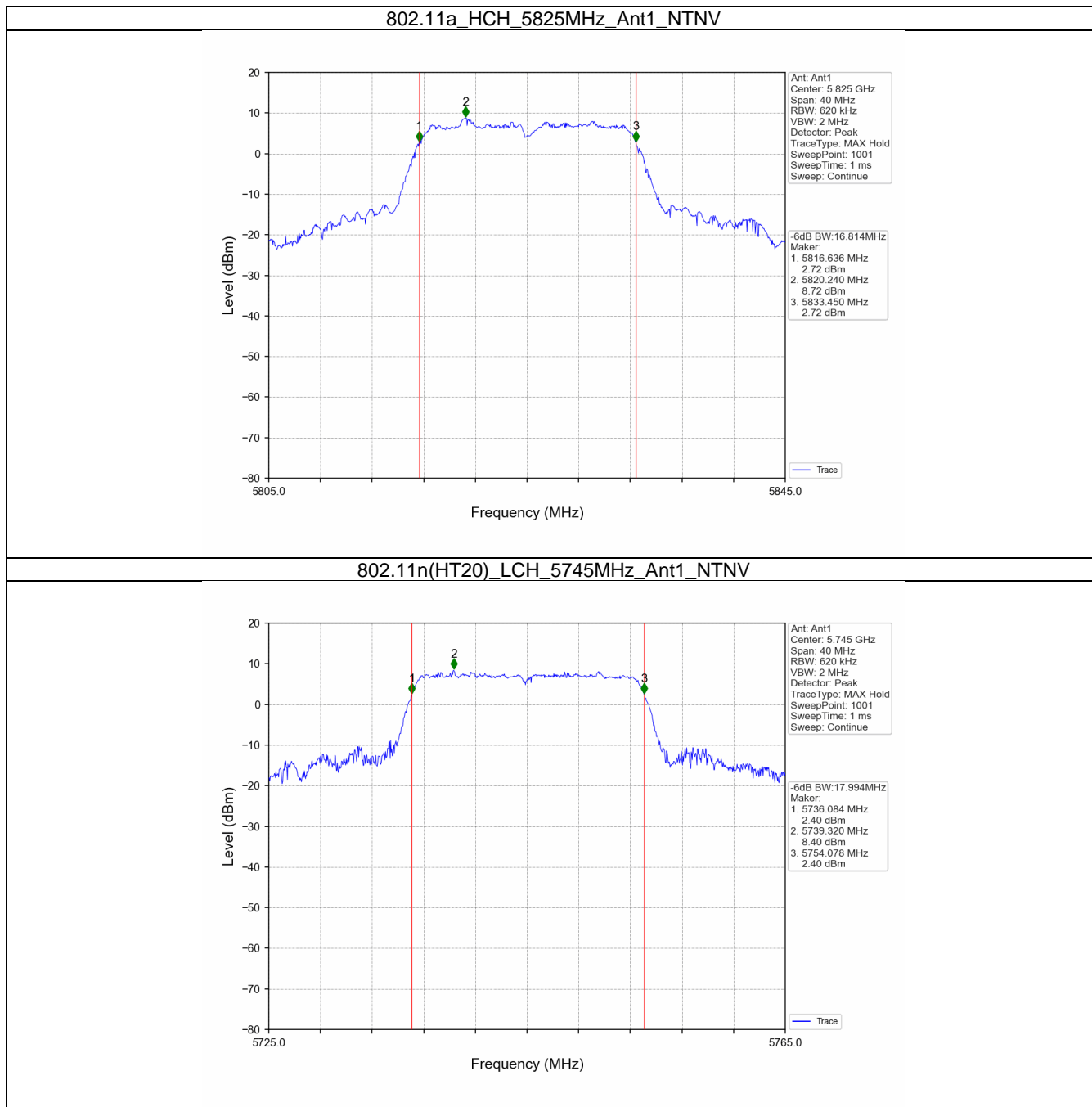


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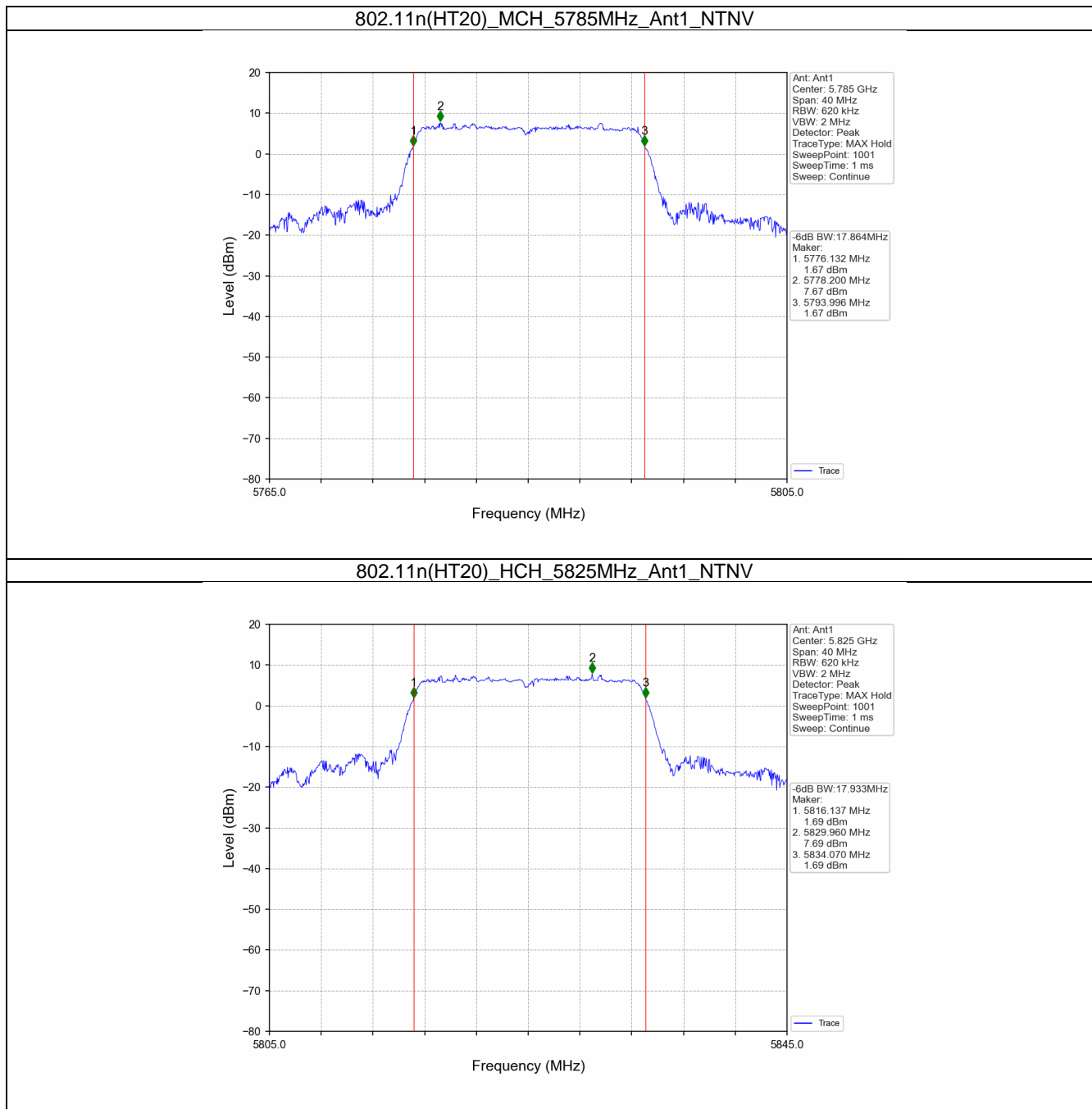


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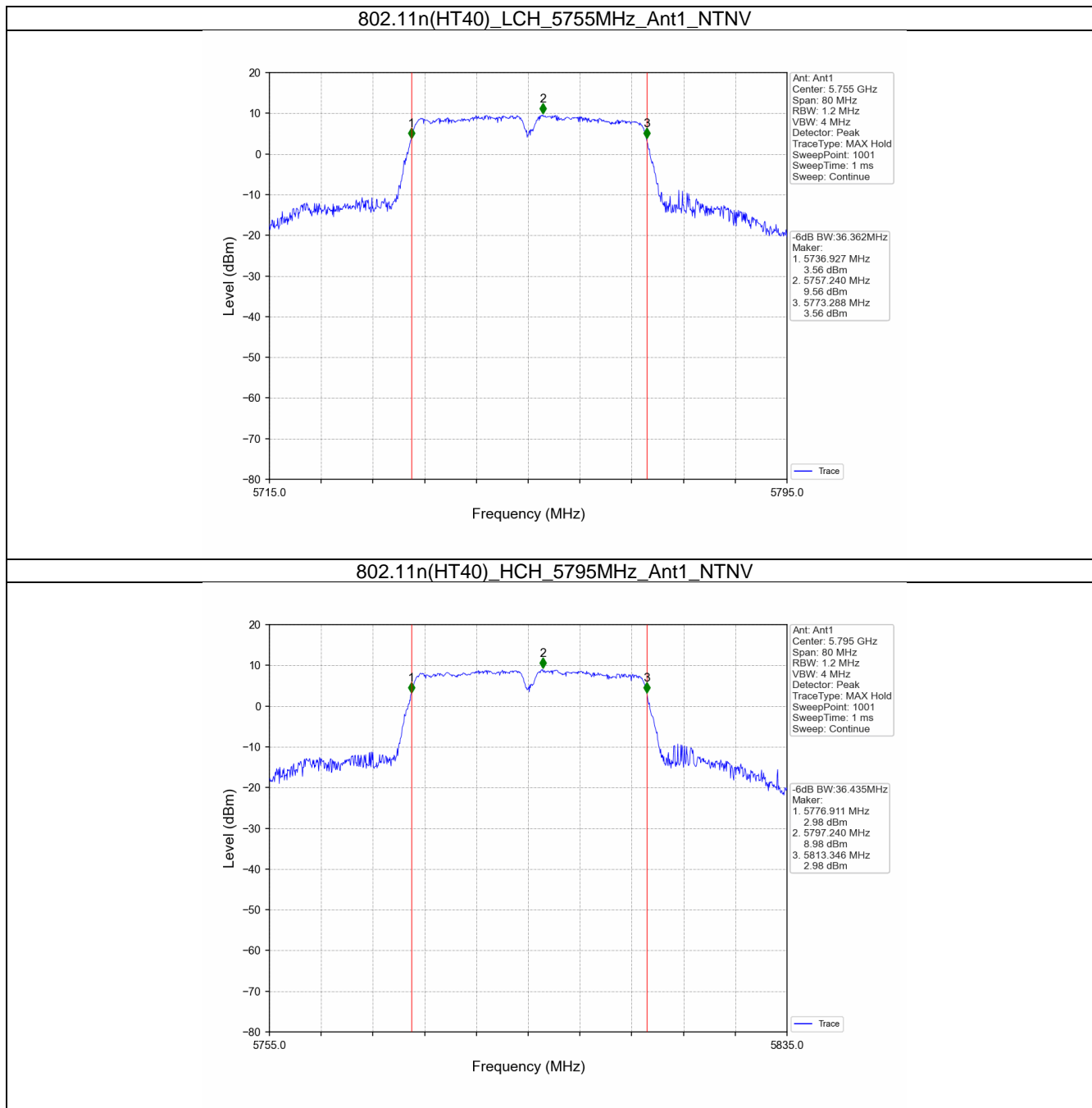


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2.3 26dB BW

2.3.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	26dB Bandwidth (MHz)	Verdict
				Result	
802.11a	SISO	5180	1	34.359	Pass
		5200	1	34.496	Pass
		5240	1	34.346	Pass
802.11n (HT20)	SISO	5180	1	39.993	Pass
		5200	1	42.274	Pass
		5240	1	41.735	Pass
802.11n (HT40)	SISO	5190	1	81.417	Pass
		5230	1	79.996	Pass



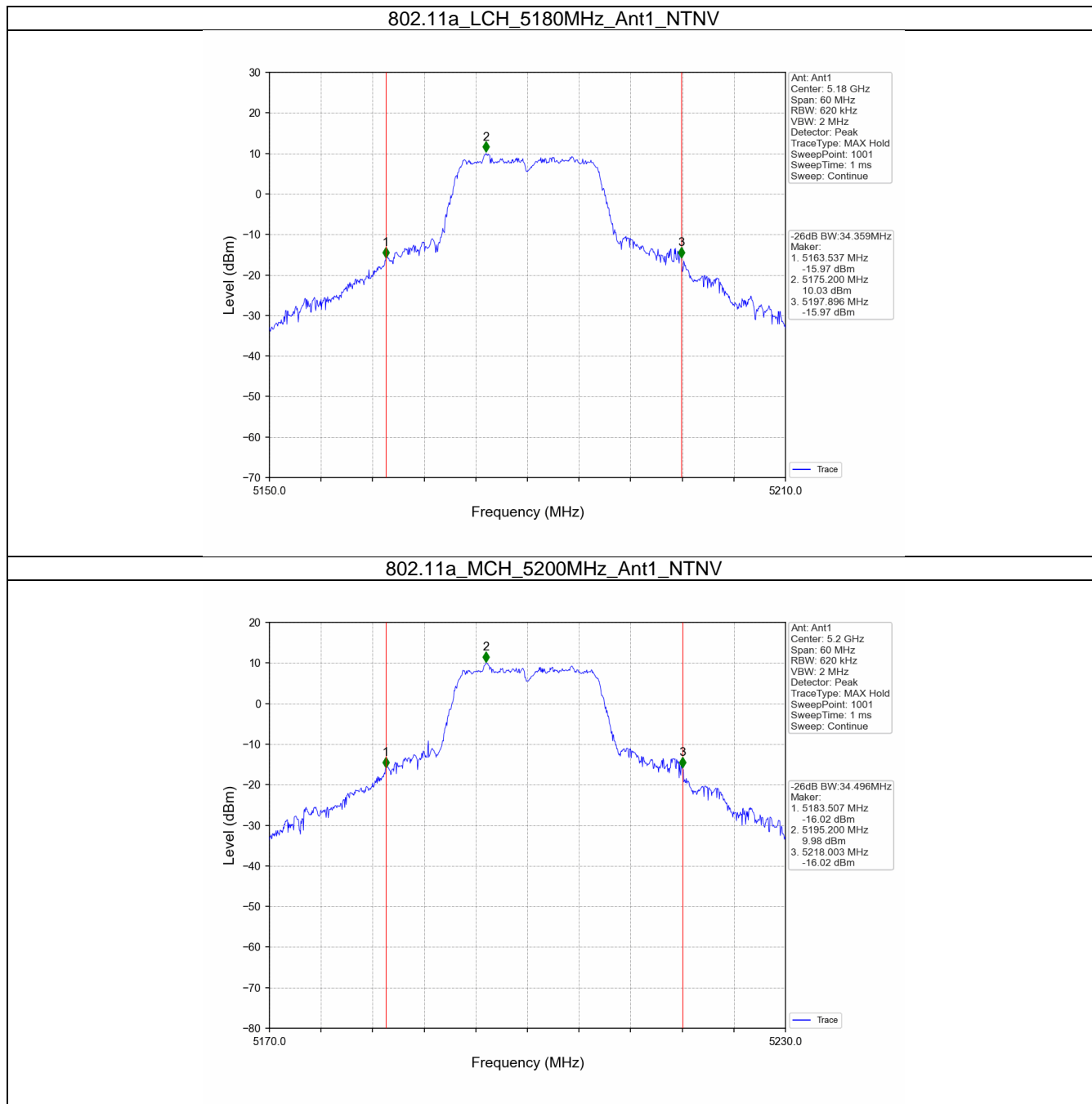
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### 2.3.2 Test Graph

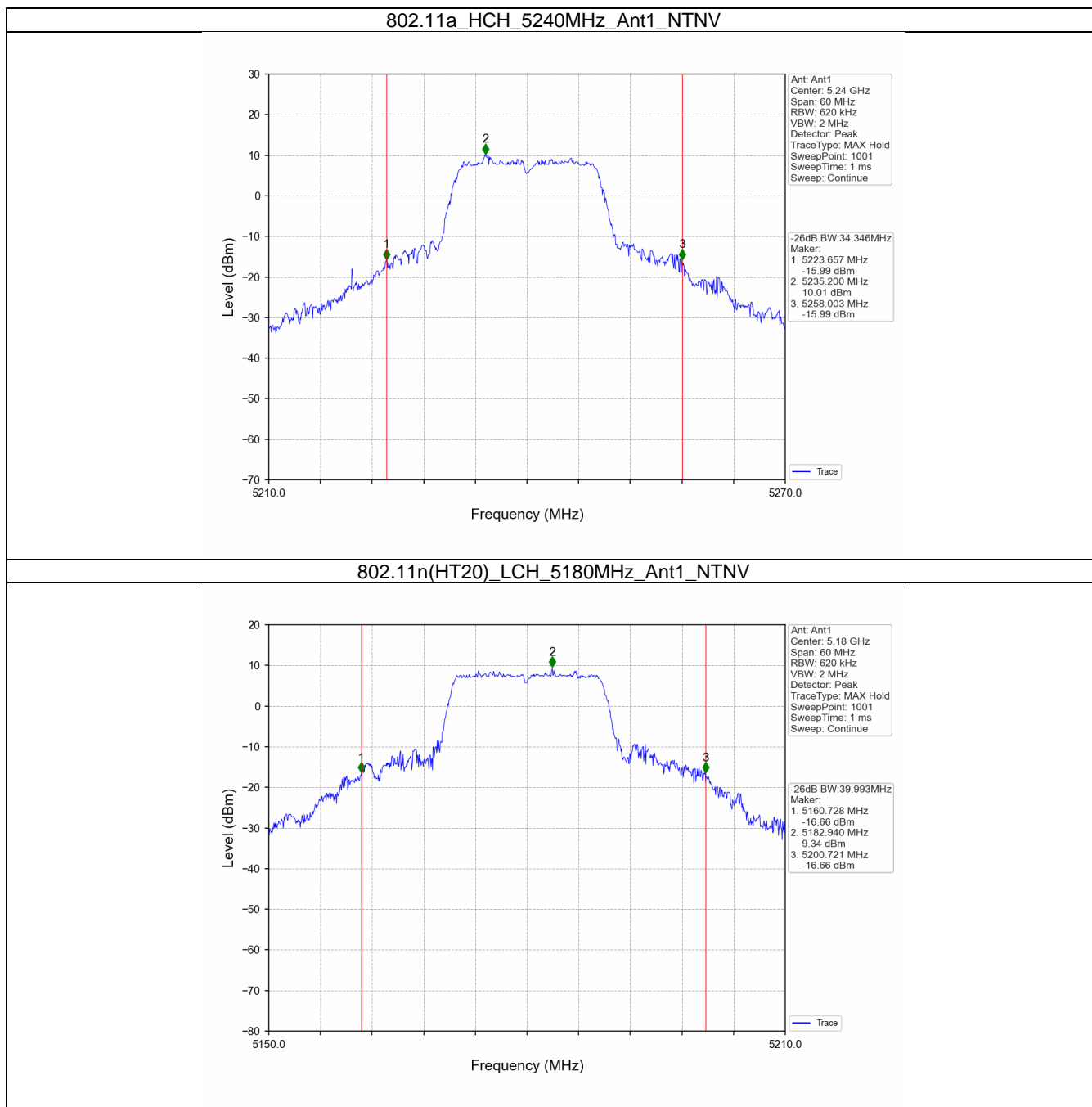


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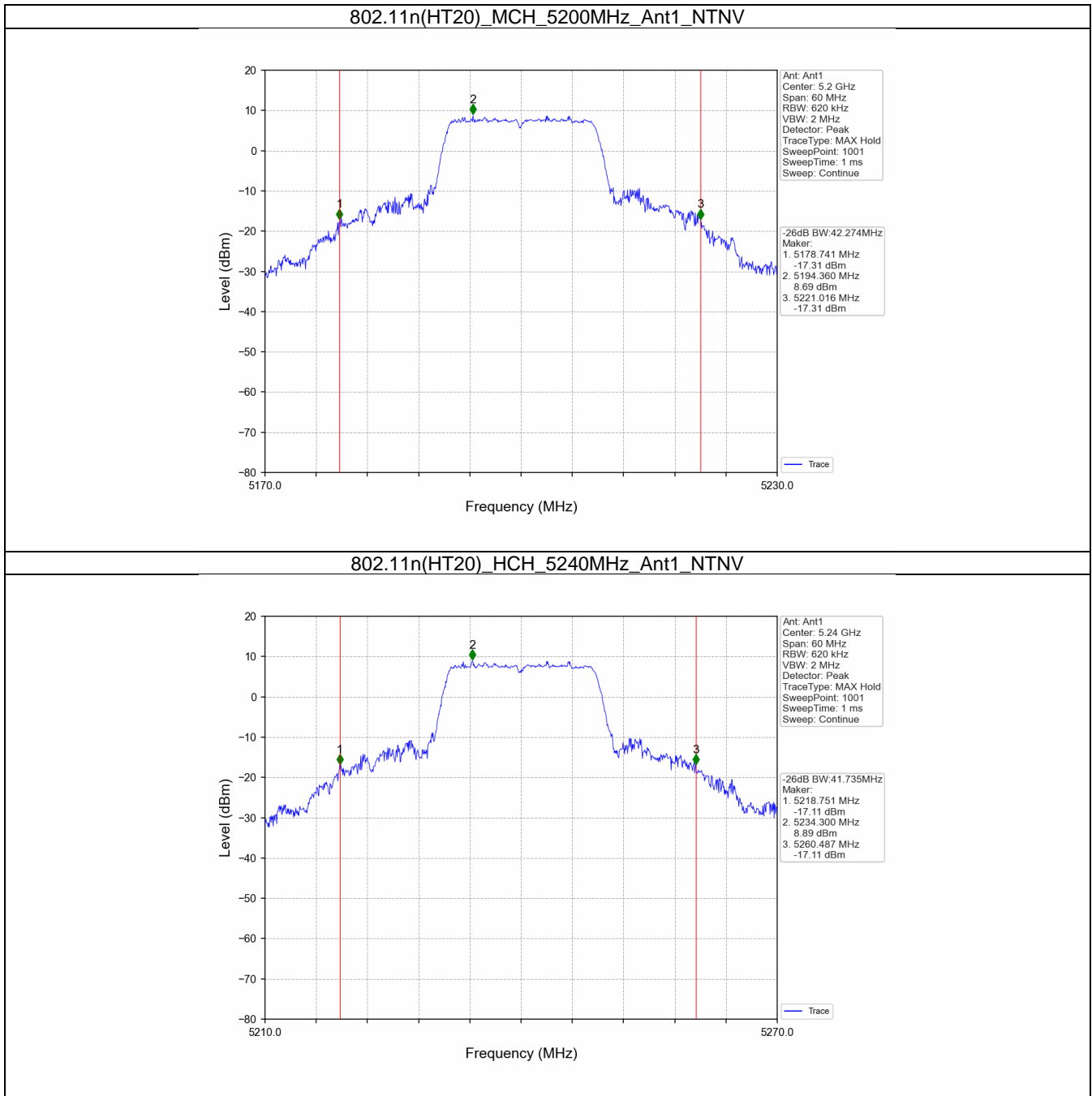


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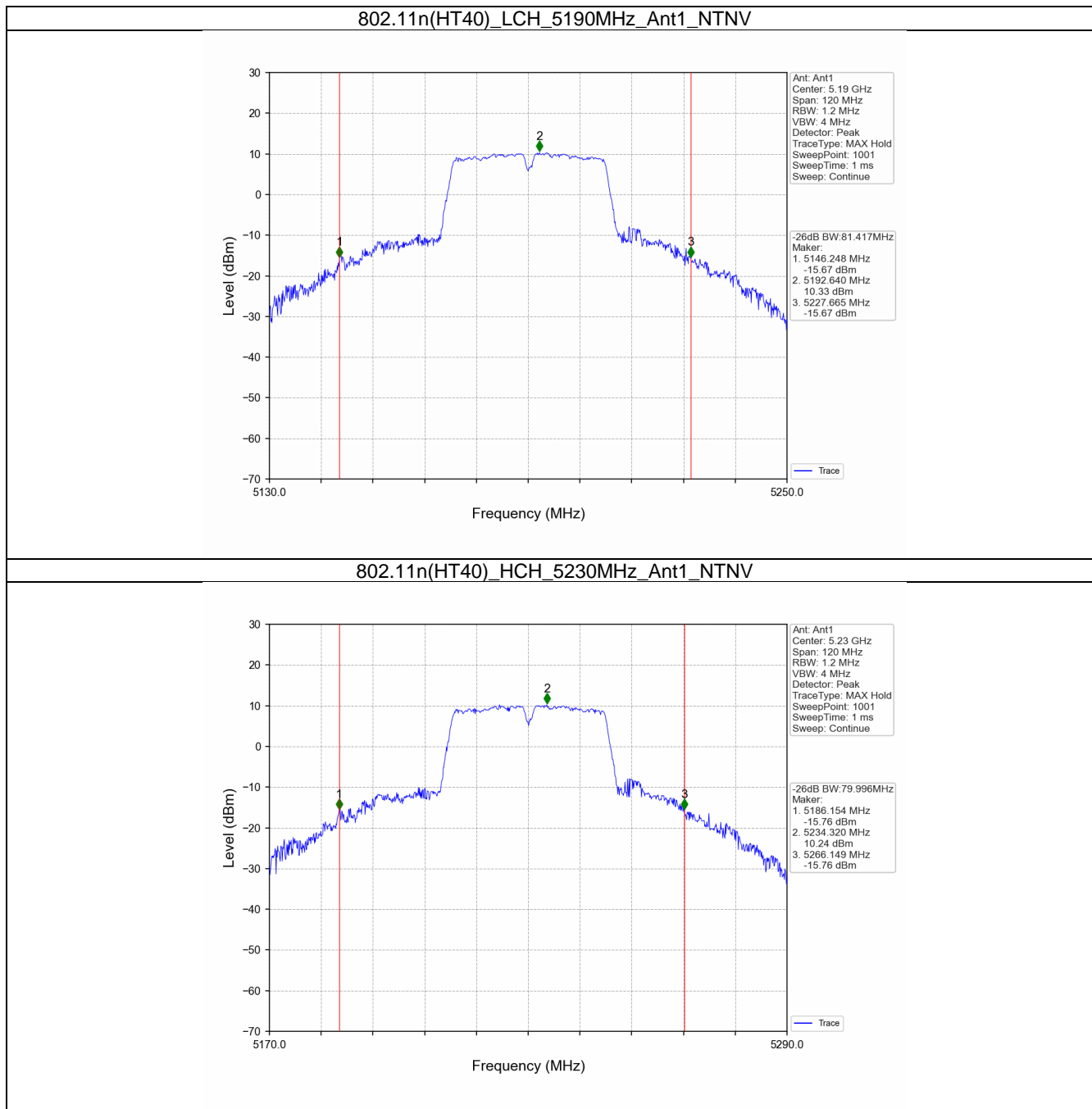
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### 3. Maximum Conducted Output Power

#### 3.1 Power

##### 3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			Ant1	Limit	
802.11a	SISO	5180	15.07	<=30.00	Pass
		5200	15.11	<=30.00	Pass
		5240	15.15	<=30.00	Pass
		5745	14.55	<=30.00	Pass
		5785	13.97	<=30.00	Pass
		5825	13.80	<=30.00	Pass
802.11n (HT20)	SISO	5180	14.97	<=30.00	Pass
		5200	14.93	<=30.00	Pass
		5240	14.97	<=30.00	Pass
		5745	14.42	<=30.00	Pass
		5785	13.76	<=30.00	Pass
802.11n (HT40)	SISO	5190	15.38	<=30.00	Pass
		5230	15.49	<=30.00	Pass
		5755	14.75	<=30.00	Pass
		5795	14.13	<=30.00	Pass

Note1: Antenna Gain: Ant1: 2.50dBi;

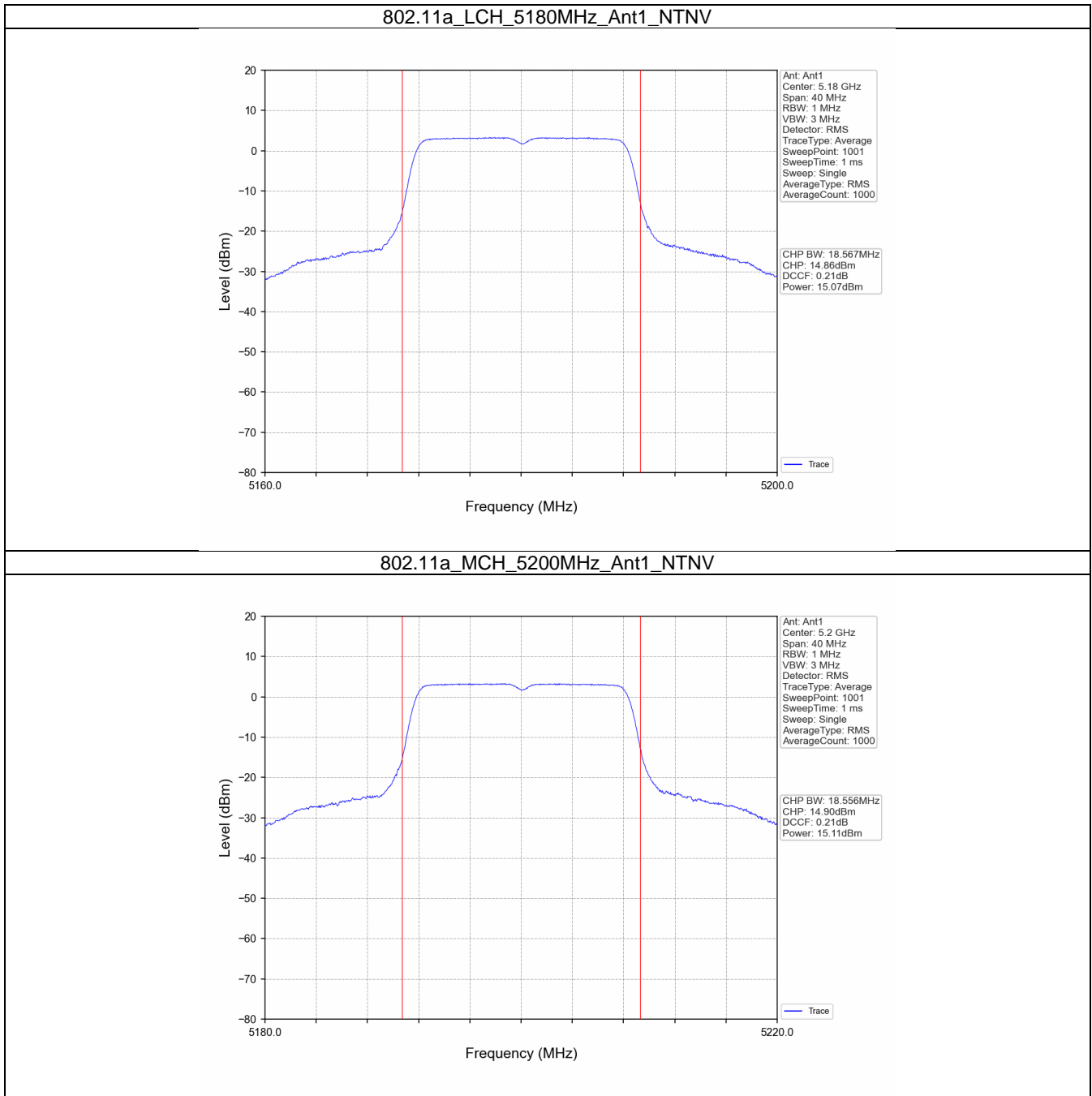


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3.1.2 Test Graph

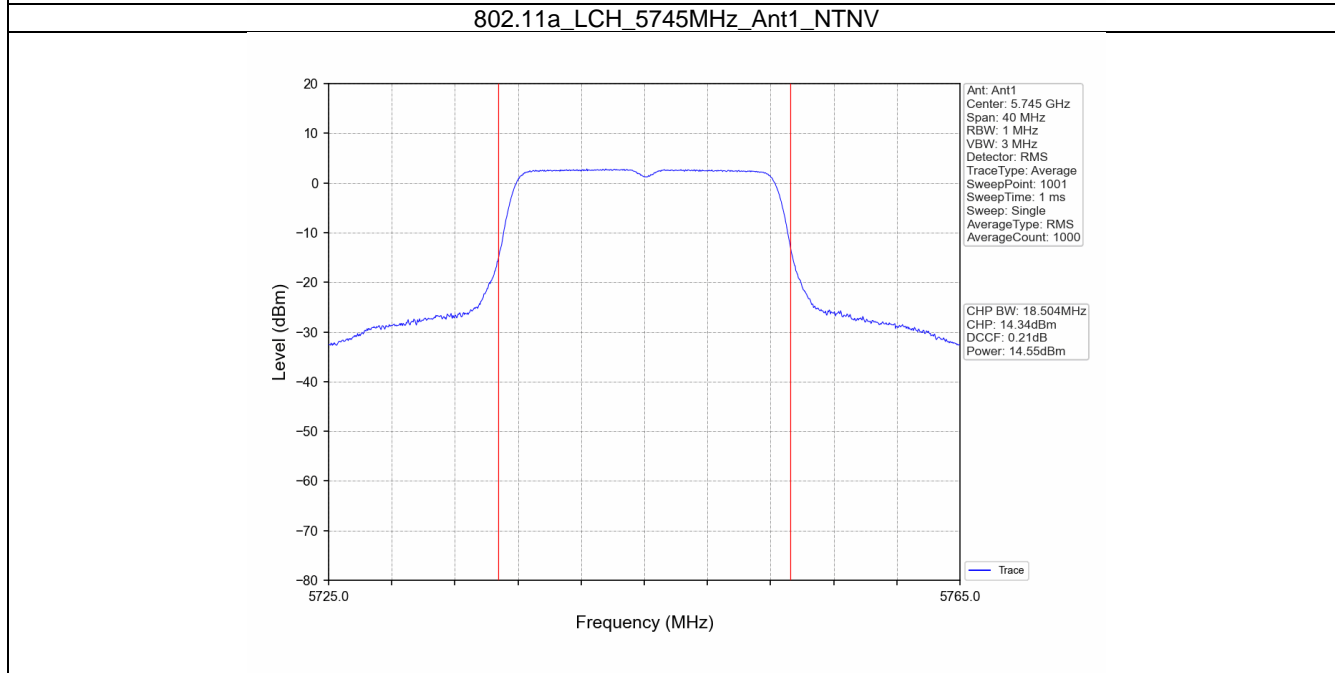
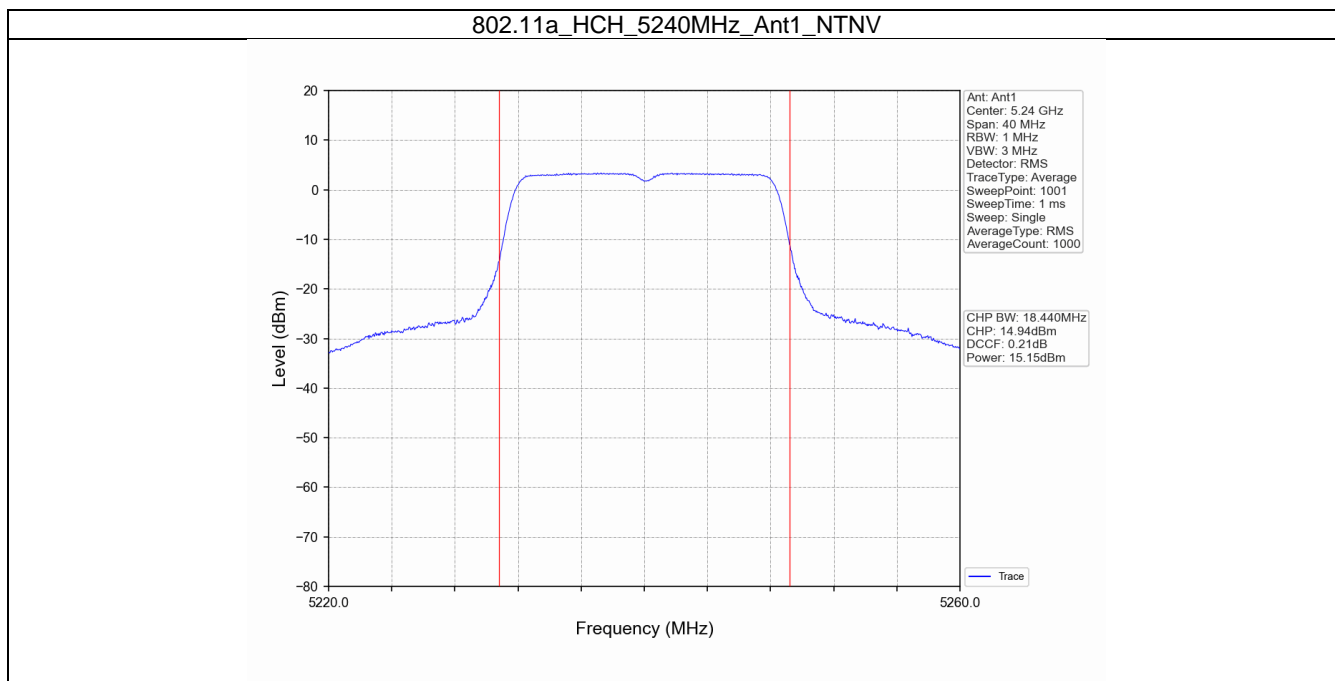


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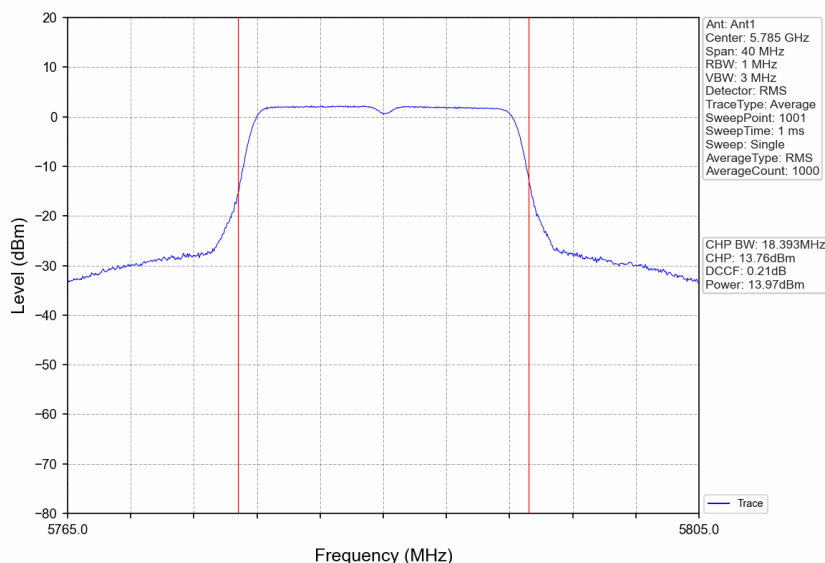


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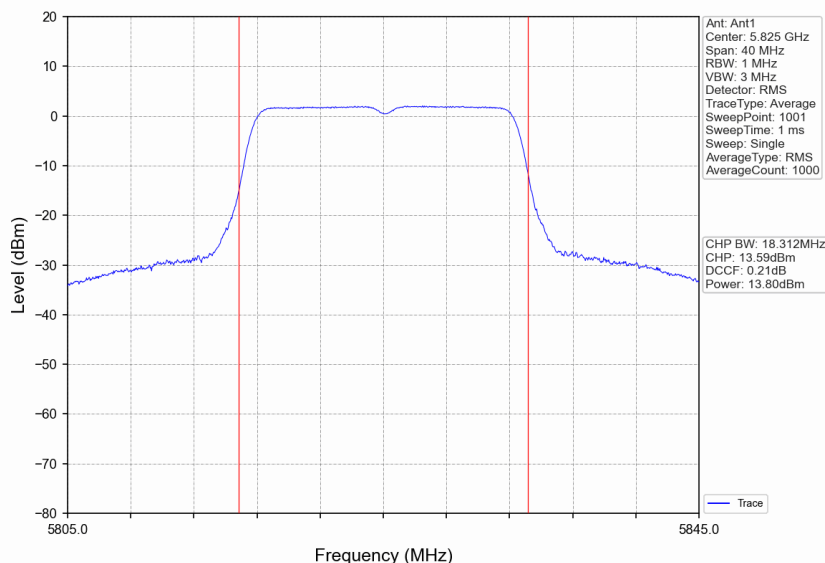
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802.11a\_MCH\_5785MHz\_Ant1\_NTNV



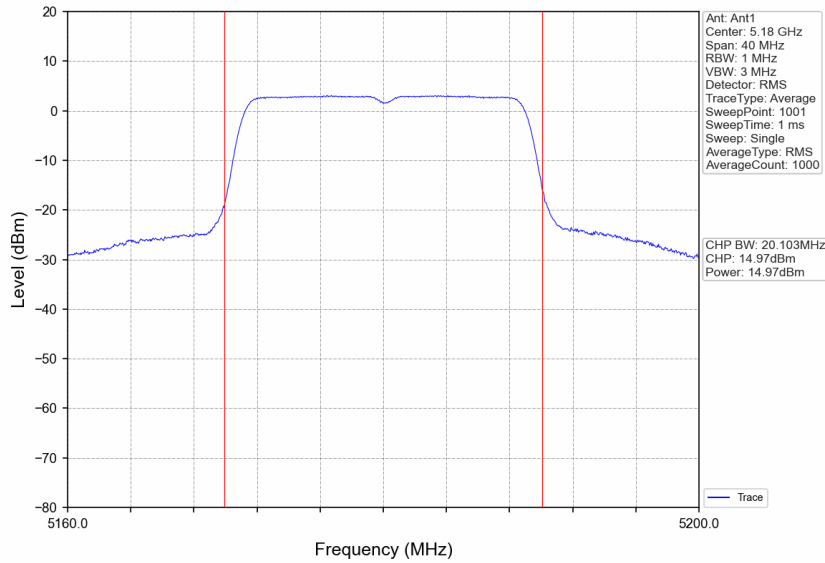
802.11a\_HCH\_5825MHz\_Ant1\_NTNV



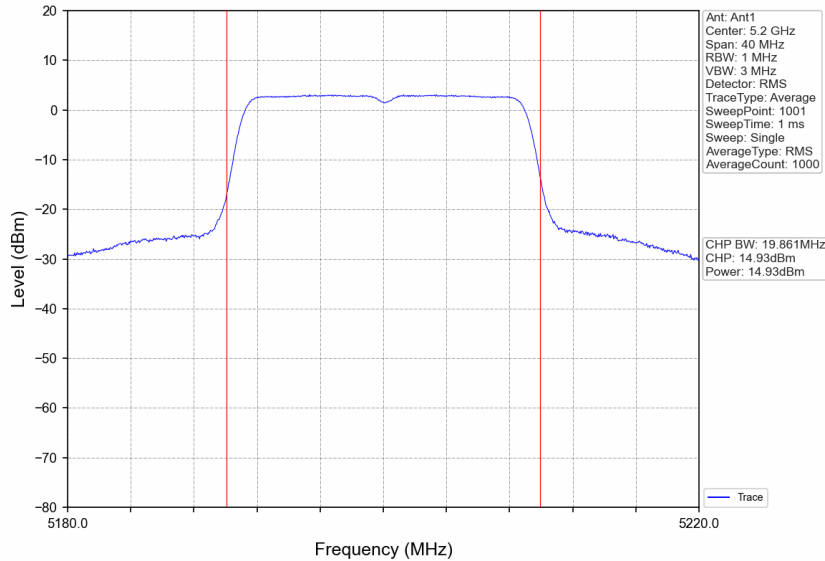
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802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV



802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV

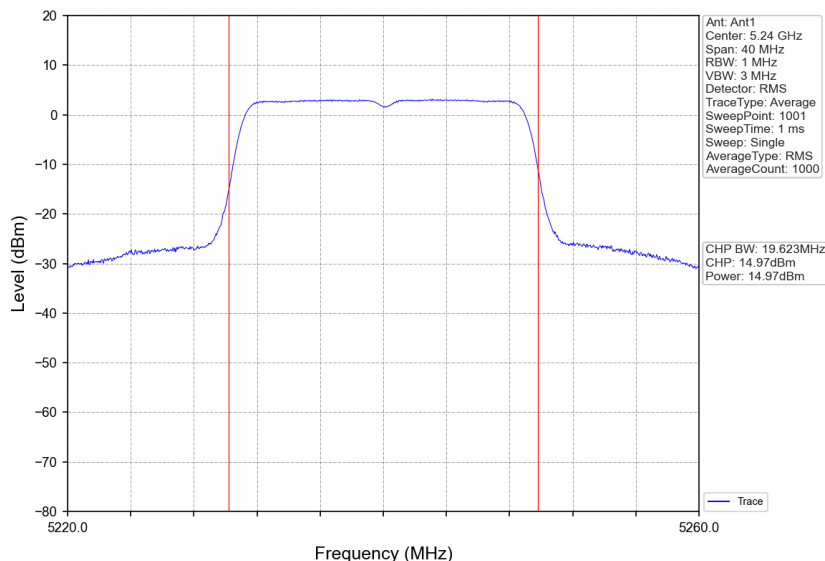


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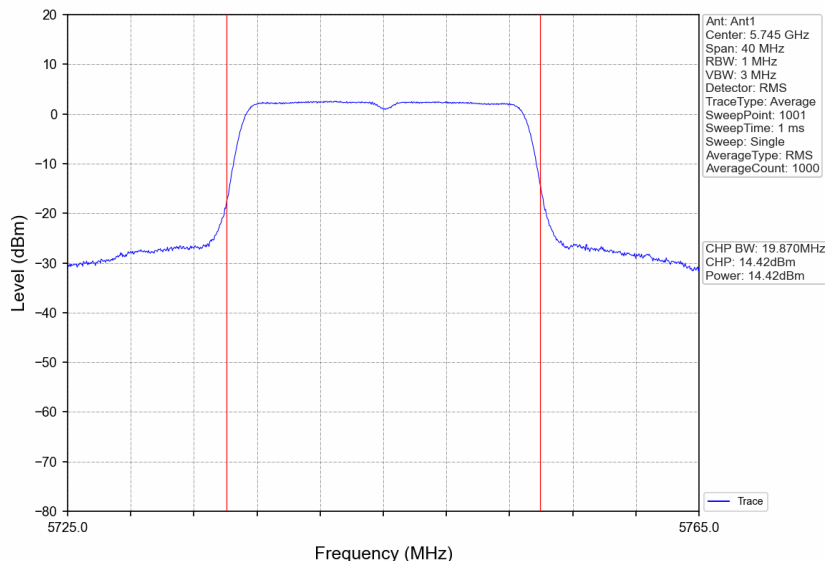
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802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV

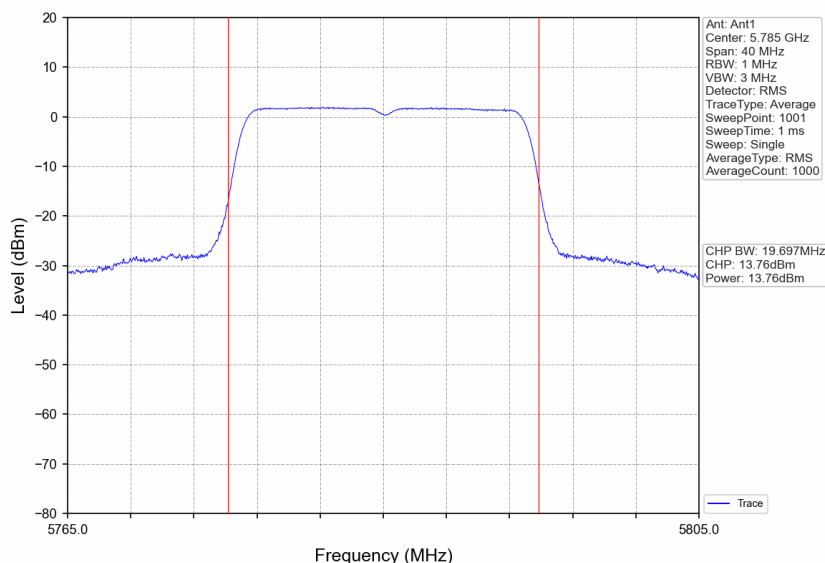


802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV

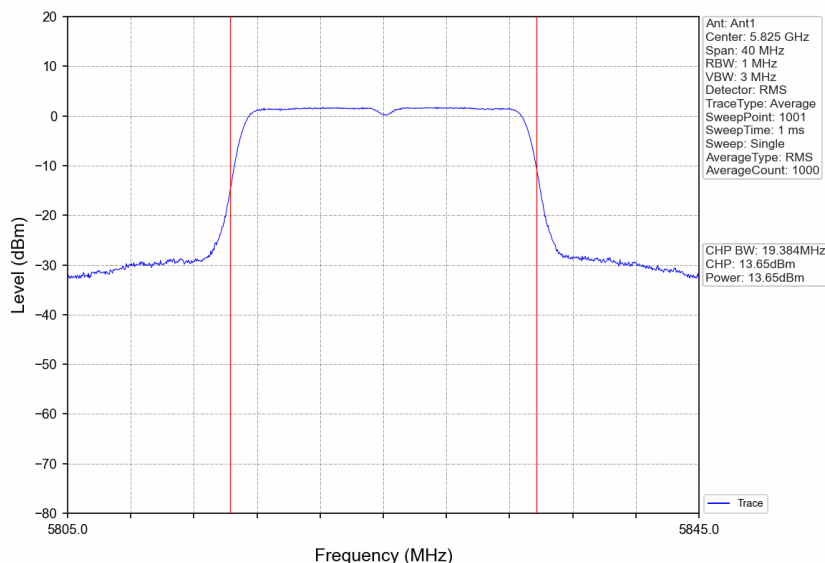


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802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV

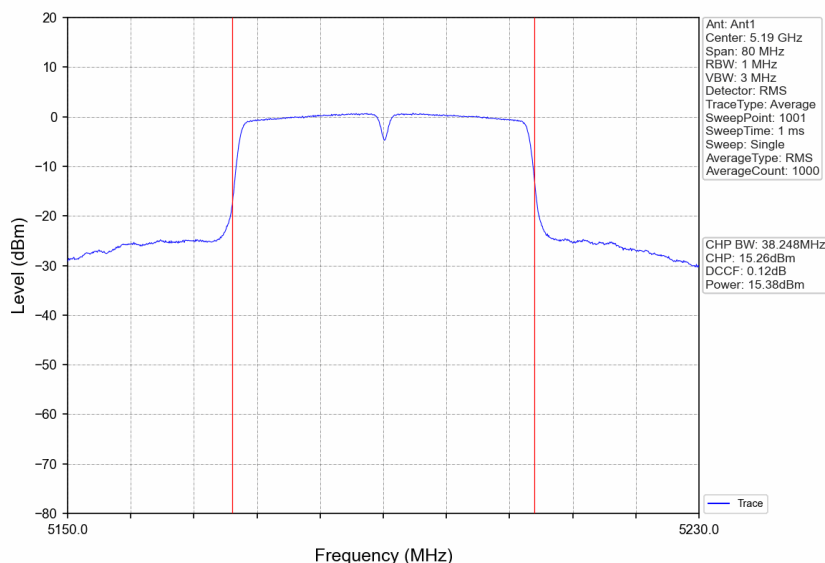


802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV

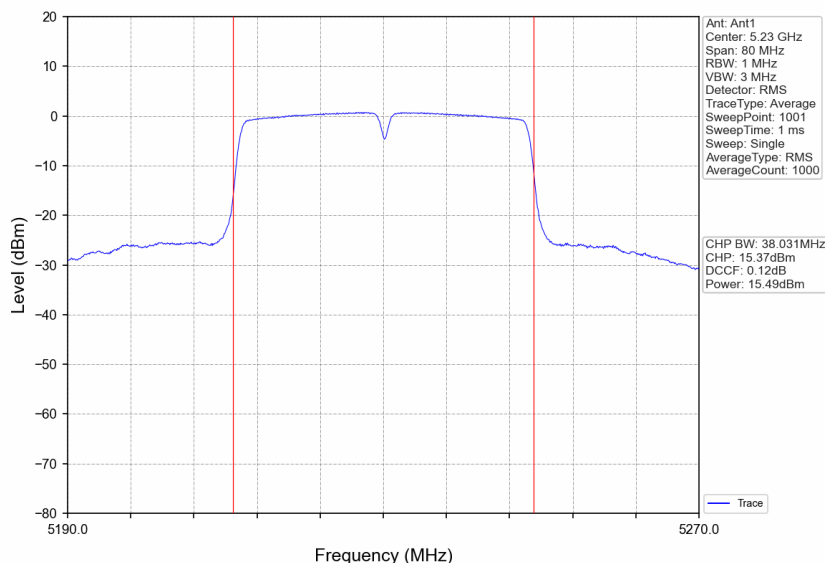


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802.11n(HT40)\_LCH\_5190MHz\_Ant1\_NTNV

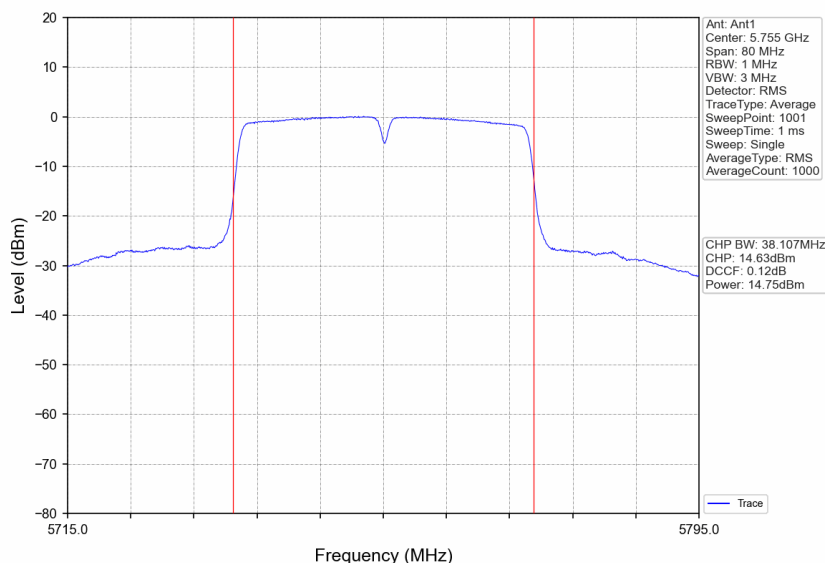


802.11n(HT40)\_HCH\_5230MHz\_Ant1\_NTNV

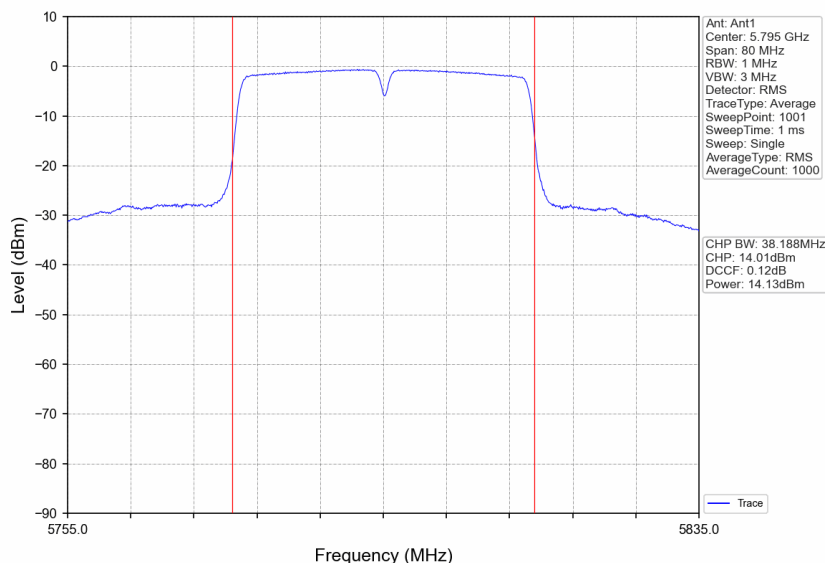


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802.11n(HT40)\_LCH\_5755MHz\_Ant1\_NTNV



802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV



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## 4. Maximum Power Spectral Density

### 4.1 PSD

#### 4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)		Verdict
			Ant1	Limit	
802.11a	SISO	5180	3.48	<=17.00	Pass
		5200	3.56	<=17.00	Pass
		5240	3.61	<=17.00	Pass
802.11n (HT20)	SISO	5180	3.09	<=17.00	Pass
		5200	3.09	<=17.00	Pass
		5240	3.06	<=17.00	Pass
802.11n (HT40)	SISO	5190	0.79	<=17.00	Pass
		5230	0.88	<=17.00	Pass

Note1: Antenna Gain: Ant1: 2.50dBi;

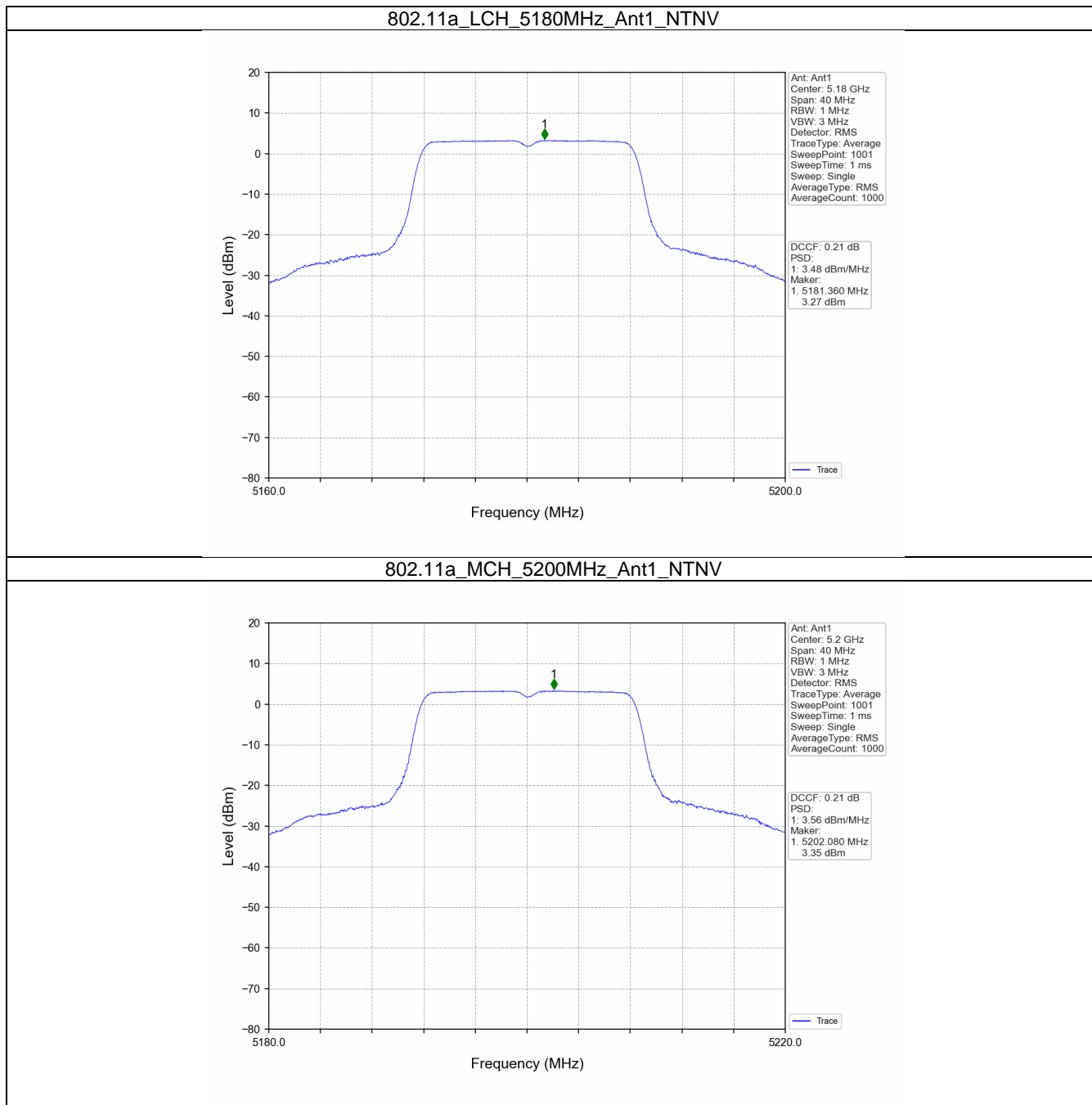


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4.1.2 Test Graph

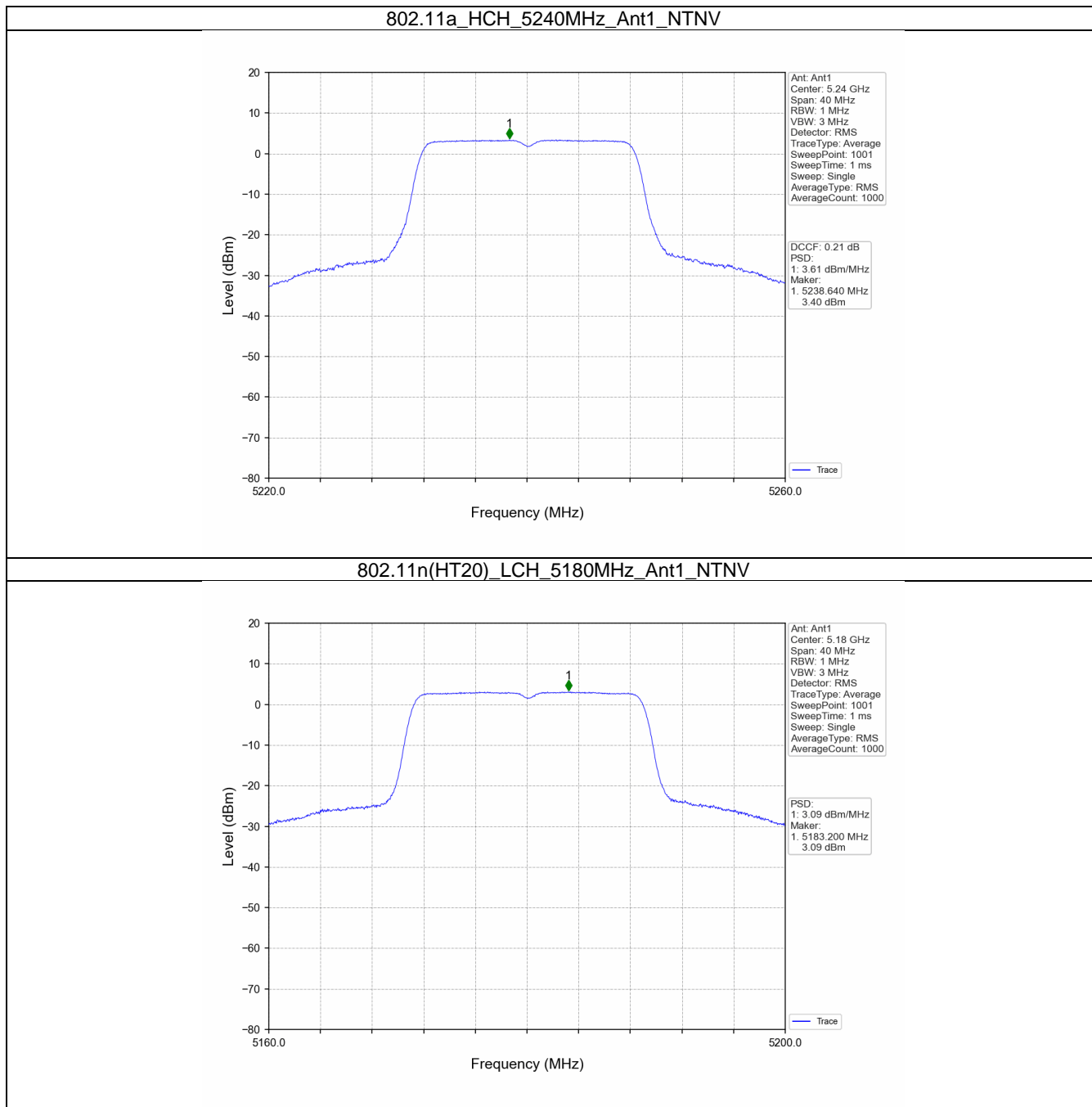


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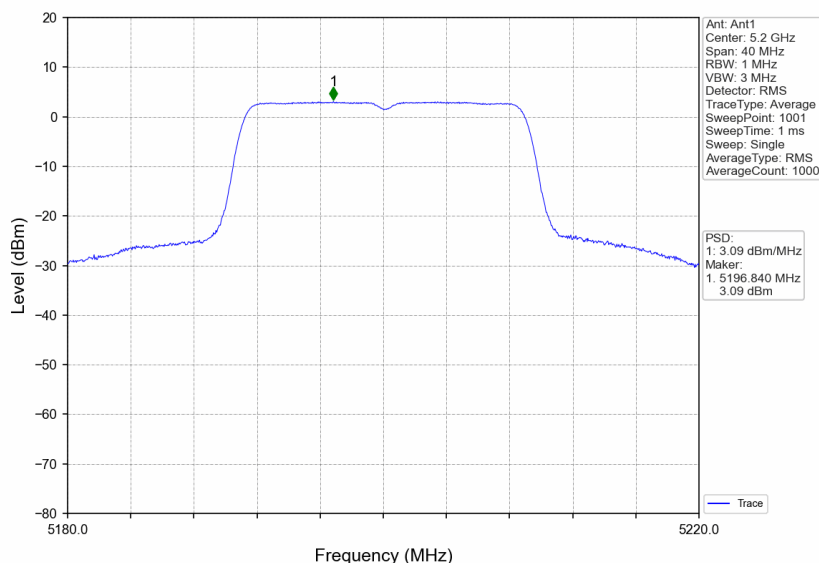
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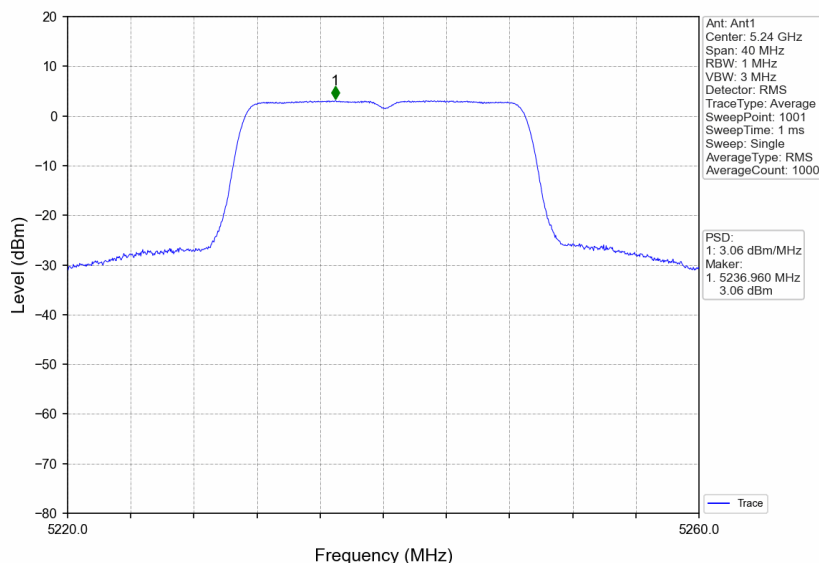
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802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV

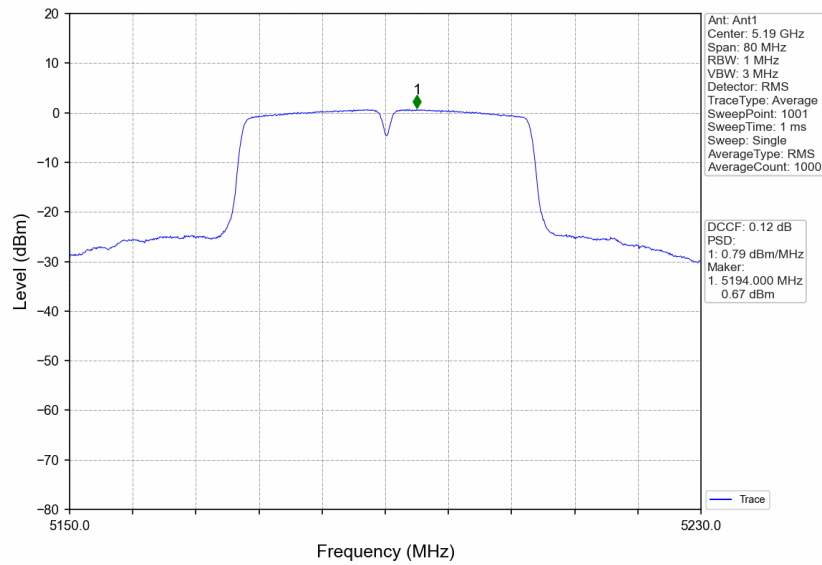


802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV

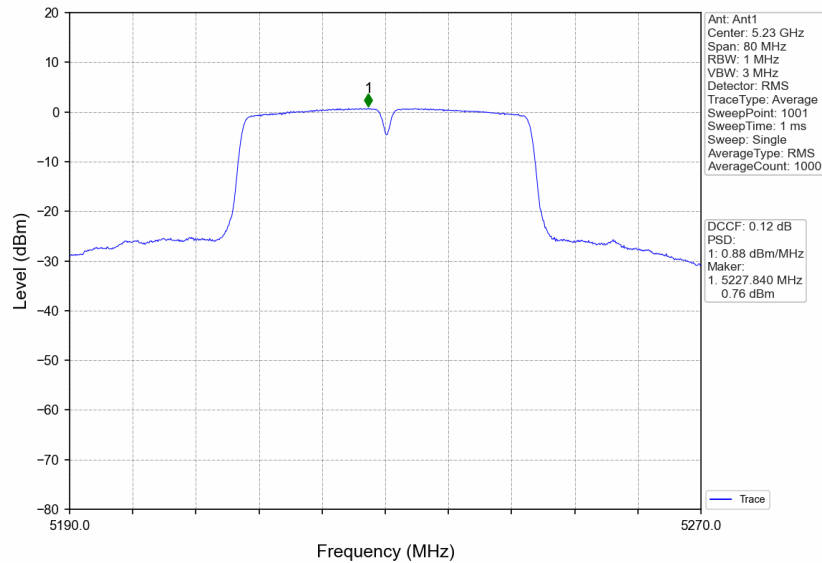


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802.11n(HT40)\_LCH\_5190MHz\_Ant1\_NTNV



802.11n(HT40)\_HCH\_5230MHz\_Ant1\_NTNV



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4.2 PSD-Band3

4.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)		Verdict
			Ant1	Limit	
802.11a	SISO	5745	0.12	<=30.00	Pass
		5785	-0.54	<=30.00	Pass
		5825	-0.71	<=30.00	Pass
802.11n (HT20)	SISO	5745	-0.33	<=30.00	Pass
		5785	-0.95	<=30.00	Pass
		5825	-1.13	<=30.00	Pass
802.11n (HT40)	SISO	5755	-2.76	<=30.00	Pass
		5795	-3.37	<=30.00	Pass

Note1: Antenna Gain: Ant1: 2.50dBi;

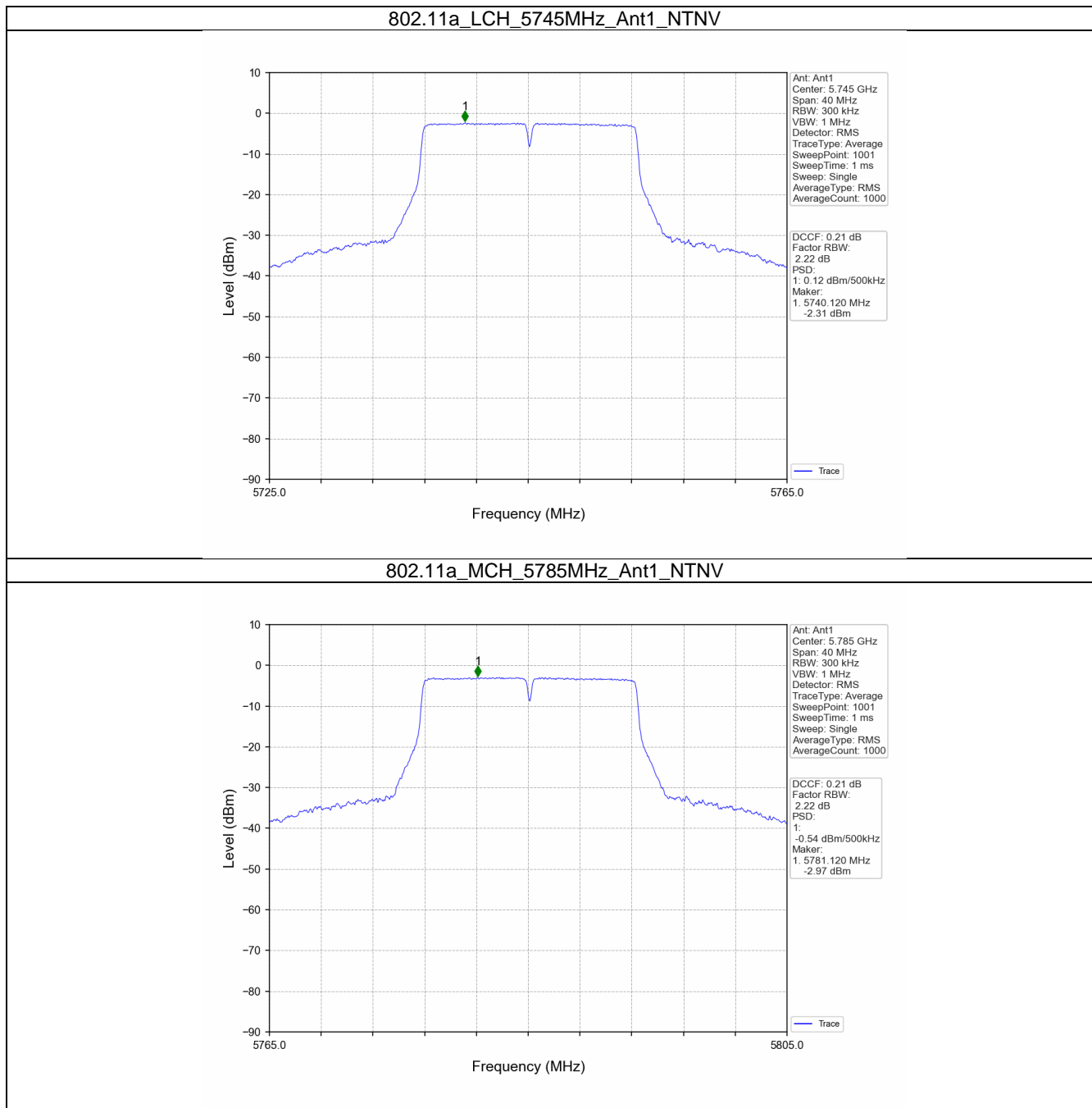


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4.2.2 Test Graph

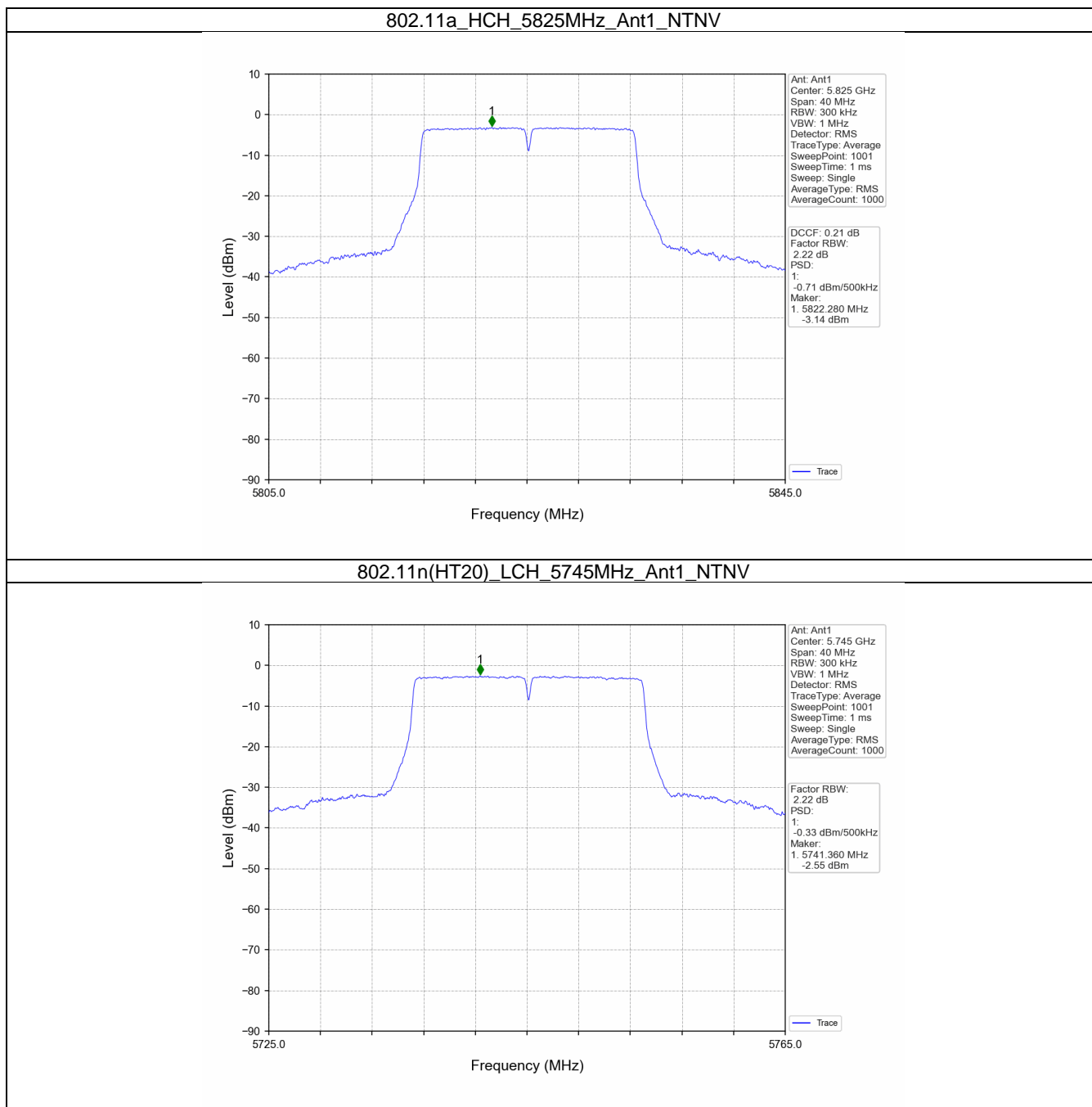


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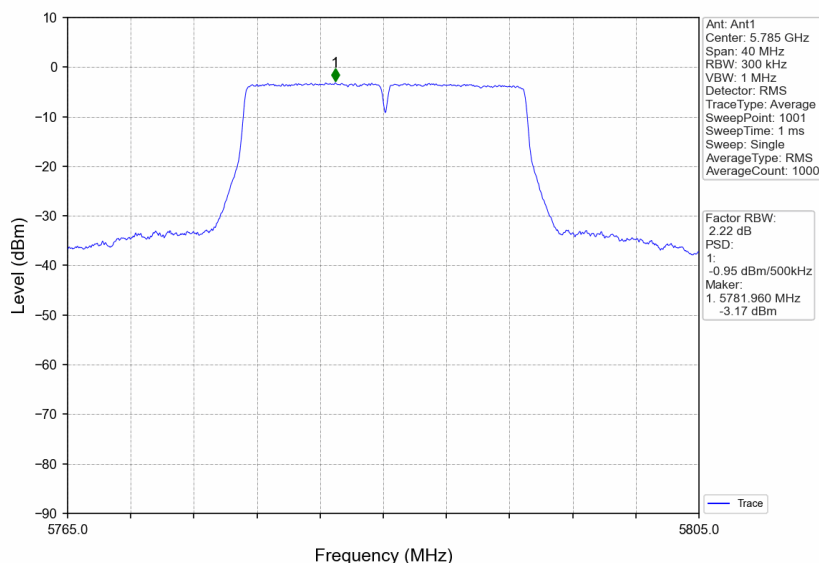
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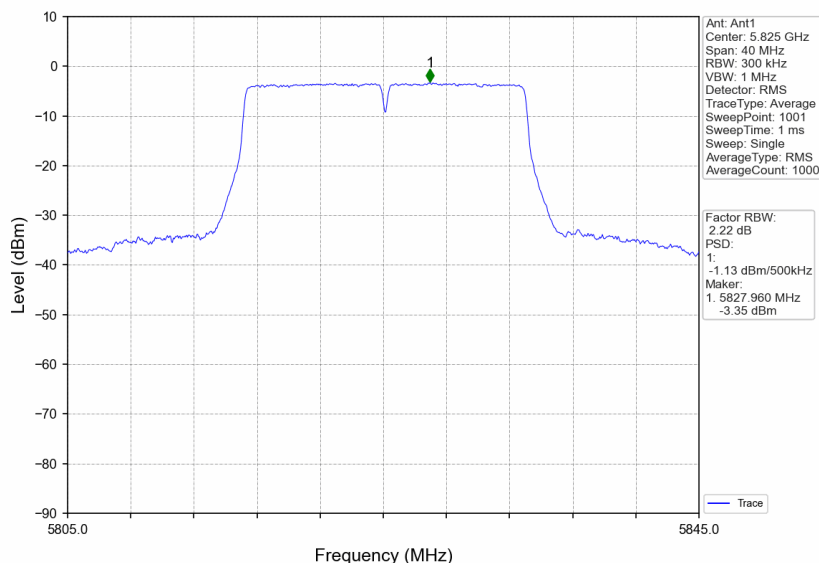
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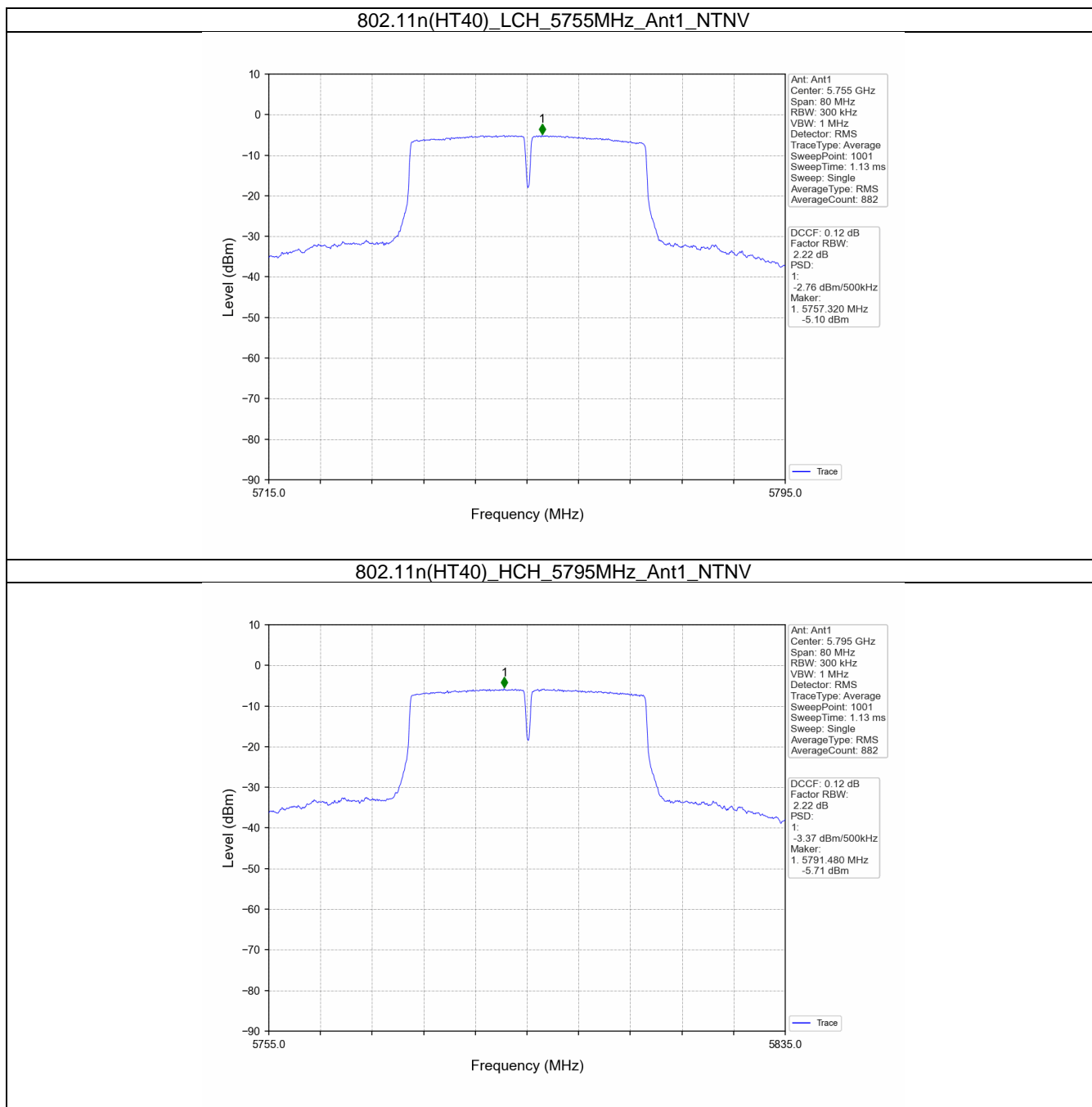
802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV



802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV



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## 5. Frequency Stability

### 5.1 Ant1

#### 5.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (V DC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
802.11a	SISO	5180	20	10.20	5180.020	5150 to 5250	Pass
				12.00	5180.060	5150 to 5250	Pass
				13.80	5180.000	5150 to 5250	Pass
			-30	12.00	5180.060	5150 to 5250	Pass
			-20	12.00	5180.020	5150 to 5250	Pass
			-10	12.00	5179.980	5150 to 5250	Pass
			0	12.00	5180.060	5150 to 5250	Pass
			10	12.00	5180.000	5150 to 5250	Pass
			30	12.00	5180.100	5150 to 5250	Pass
			40	12.00	5180.060	5150 to 5250	Pass
		50	12.00	5180.020	5150 to 5250	Pass	
		5200	20	10.20	5200.060	5150 to 5250	Pass
				12.00	5200.100	5150 to 5250	Pass
				13.80	5200.040	5150 to 5250	Pass
			-30	12.00	5200.020	5150 to 5250	Pass
			-20	12.00	5200.080	5150 to 5250	Pass
			-10	12.00	5200.080	5150 to 5250	Pass
			0	12.00	5200.100	5150 to 5250	Pass
			10	12.00	5200.060	5150 to 5250	Pass
			30	12.00	5200.040	5150 to 5250	Pass
			40	12.00	5200.120	5150 to 5250	Pass
		50	12.00	5200.060	5150 to 5250	Pass	
		5240	20	10.20	5240.060	5150 to 5250	Pass
				12.00	5240.020	5150 to 5250	Pass
				13.80	5240.120	5150 to 5250	Pass
			-30	12.00	5240.040	5150 to 5250	Pass
			-20	12.00	5240.020	5150 to 5250	Pass
			-10	12.00	5240.060	5150 to 5250	Pass
			0	12.00	5240.100	5150 to 5250	Pass
			10	12.00	5240.080	5150 to 5250	Pass
			30	12.00	5240.100	5150 to 5250	Pass
			40	12.00	5240.080	5150 to 5250	Pass
		50	12.00	5240.060	5150 to 5250	Pass	
		5745	20	10.20	5745.040	5725 to 5850	Pass
				12.00	5745.040	5725 to 5850	Pass
				13.80	5745.040	5725 to 5850	Pass
			-30	12.00	5745.120	5725 to 5850	Pass
			-20	12.00	5745.060	5725 to 5850	Pass
			-10	12.00	5745.040	5725 to 5850	Pass
			0	12.00	5745.040	5725 to 5850	Pass
			10	12.00	5745.040	5725 to 5850	Pass

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		5785	30	12.00	5745.060	5725 to 5850	Pass	
			40	12.00	5745.020	5725 to 5850	Pass	
			50	12.00	5745.020	5725 to 5850	Pass	
			20	10.20	5785.040	5725 to 5850	Pass	
				12.00	5785.060	5725 to 5850	Pass	
				13.80	5785.100	5725 to 5850	Pass	
			-30	12.00	5785.100	5725 to 5850	Pass	
			-20	12.00	5785.080	5725 to 5850	Pass	
			-10	12.00	5785.040	5725 to 5850	Pass	
			0	12.00	5785.080	5725 to 5850	Pass	
			10	12.00	5785.080	5725 to 5850	Pass	
			30	12.00	5785.080	5725 to 5850	Pass	
			40	12.00	5785.120	5725 to 5850	Pass	
			50	12.00	5785.140	5725 to 5850	Pass	
			5825	20	10.20	5825.080	5725 to 5850	Pass
					12.00	5825.020	5725 to 5850	Pass
					13.80	5825.080	5725 to 5850	Pass
				-30	12.00	5825.100	5725 to 5850	Pass
				-20	12.00	5825.120	5725 to 5850	Pass
				-10	12.00	5825.080	5725 to 5850	Pass
				0	12.00	5825.100	5725 to 5850	Pass
				10	12.00	5825.080	5725 to 5850	Pass
				30	12.00	5825.100	5725 to 5850	Pass
				40	12.00	5825.100	5725 to 5850	Pass
50	12.00	5825.040	5725 to 5850	Pass				
802.11n (HT20)	SISO	5180	20	10.20	5180.120	5150 to 5250	Pass	
				12.00	5180.100	5150 to 5250	Pass	
				13.80	5180.140	5150 to 5250	Pass	
			-30	12.00	5180.160	5150 to 5250	Pass	
			-20	12.00	5180.100	5150 to 5250	Pass	
			-10	12.00	5180.100	5150 to 5250	Pass	
			0	12.00	5180.120	5150 to 5250	Pass	
			10	12.00	5180.080	5150 to 5250	Pass	
			30	12.00	5180.100	5150 to 5250	Pass	
			40	12.00	5180.100	5150 to 5250	Pass	
		50	12.00	5180.120	5150 to 5250	Pass		
		5200	20	10.20	5200.100	5150 to 5250	Pass	
				12.00	5200.120	5150 to 5250	Pass	
				13.80	5200.140	5150 to 5250	Pass	
			-30	12.00	5200.100	5150 to 5250	Pass	
			-20	12.00	5200.120	5150 to 5250	Pass	
			-10	12.00	5200.120	5150 to 5250	Pass	
			0	12.00	5200.100	5150 to 5250	Pass	
			10	12.00	5200.100	5150 to 5250	Pass	
			30	12.00	5200.100	5150 to 5250	Pass	
			40	12.00	5200.100	5150 to 5250	Pass	
		50	12.00	5200.100	5150 to 5250	Pass		
		5240	20	10.20	5240.100	5150 to 5250	Pass	
				12.00	5240.100	5150 to 5250	Pass	
13.80	5240.140			5150 to 5250	Pass			
-30	12.00		5240.100	5150 to 5250	Pass			
-20	12.00		5240.140	5150 to 5250	Pass			

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			-10	12.00	5240.100	5150 to 5250	Pass		
			0	12.00	5240.100	5150 to 5250	Pass		
			10	12.00	5240.140	5150 to 5250	Pass		
			30	12.00	5240.080	5150 to 5250	Pass		
			40	12.00	5240.120	5150 to 5250	Pass		
			50	12.00	5240.120	5150 to 5250	Pass		
		5745	20	10.20	5745.100	5725 to 5850	Pass		
				12.00	5745.100	5725 to 5850	Pass		
				13.80	5745.120	5725 to 5850	Pass		
			-30	12.00	5745.100	5725 to 5850	Pass		
			-20	12.00	5745.120	5725 to 5850	Pass		
			-10	12.00	5745.120	5725 to 5850	Pass		
			0	12.00	5745.080	5725 to 5850	Pass		
			10	12.00	5745.100	5725 to 5850	Pass		
			30	12.00	5745.100	5725 to 5850	Pass		
			40	12.00	5745.120	5725 to 5850	Pass		
			50	12.00	5745.120	5725 to 5850	Pass		
			5785	20	10.20	5785.100	5725 to 5850	Pass	
		12.00			5785.140	5725 to 5850	Pass		
		13.80			5785.140	5725 to 5850	Pass		
		-30		12.00	5785.140	5725 to 5850	Pass		
		-20		12.00	5785.100	5725 to 5850	Pass		
		-10		12.00	5785.120	5725 to 5850	Pass		
		0		12.00	5785.120	5725 to 5850	Pass		
		10		12.00	5785.100	5725 to 5850	Pass		
		30		12.00	5785.140	5725 to 5850	Pass		
		40		12.00	5785.100	5725 to 5850	Pass		
		50		12.00	5785.120	5725 to 5850	Pass		
		5825		20	10.20	5825.140	5725 to 5850	Pass	
			12.00		5825.120	5725 to 5850	Pass		
			13.80		5825.100	5725 to 5850	Pass		
			-30	12.00	5825.140	5725 to 5850	Pass		
			-20	12.00	5825.100	5725 to 5850	Pass		
			-10	12.00	5825.100	5725 to 5850	Pass		
			0	12.00	5825.120	5725 to 5850	Pass		
			10	12.00	5825.120	5725 to 5850	Pass		
			30	12.00	5825.100	5725 to 5850	Pass		
			40	12.00	5825.140	5725 to 5850	Pass		
			50	12.00	5825.140	5725 to 5850	Pass		
			802.11n (HT40)	SISO	5190	20	10.20	5190.080	5150 to 5250
		12.00					5190.160	5150 to 5250	Pass
		13.80					5190.160	5150 to 5250	Pass
		-30				12.00	5190.200	5150 to 5250	Pass
		-20				12.00	5190.160	5150 to 5250	Pass
		-10				12.00	5190.240	5150 to 5250	Pass
0	12.00	5190.160				5150 to 5250	Pass		
10	12.00	5190.120				5150 to 5250	Pass		
30	12.00	5190.160				5150 to 5250	Pass		
40	12.00	5190.160				5150 to 5250	Pass		
50	12.00	5190.040				5150 to 5250	Pass		
5230	20	10.20				5230.160	5150 to 5250	Pass	
		12.00			5230.160	5150 to 5250	Pass		
		13.80			5230.160	5150 to 5250	Pass		

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 EMC Laboratory

			13.80	5230.120	5150 to 5250	Pass	
		-30	12.00	5230.160	5150 to 5250	Pass	
		-20	12.00	5230.200	5150 to 5250	Pass	
		-10	12.00	5230.160	5150 to 5250	Pass	
		0	12.00	5230.160	5150 to 5250	Pass	
		10	12.00	5230.200	5150 to 5250	Pass	
		30	12.00	5230.160	5150 to 5250	Pass	
		40	12.00	5230.160	5150 to 5250	Pass	
		50	12.00	5230.160	5150 to 5250	Pass	
	5755	20	10.20	5755.120	5725 to 5850	Pass	
			12.00	5755.120	5725 to 5850	Pass	
			13.80	5755.160	5725 to 5850	Pass	
			-30	12.00	5755.120	5725 to 5850	Pass
			-20	12.00	5755.120	5725 to 5850	Pass
			-10	12.00	5755.120	5725 to 5850	Pass
			0	12.00	5755.080	5725 to 5850	Pass
			10	12.00	5755.120	5725 to 5850	Pass
			30	12.00	5755.160	5725 to 5850	Pass
			40	12.00	5755.080	5725 to 5850	Pass
		50	12.00	5755.160	5725 to 5850	Pass	
	5795	20	10.20	5795.120	5725 to 5850	Pass	
			12.00	5795.160	5725 to 5850	Pass	
			13.80	5795.160	5725 to 5850	Pass	
			-30	12.00	5795.160	5725 to 5850	Pass
			-20	12.00	5795.120	5725 to 5850	Pass
			-10	12.00	5795.120	5725 to 5850	Pass
			0	12.00	5795.160	5725 to 5850	Pass
			10	12.00	5795.160	5725 to 5850	Pass
			30	12.00	5795.120	5725 to 5850	Pass
			40	12.00	5795.120	5725 to 5850	Pass
		50	12.00	5795.160	5725 to 5850	Pass	



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