2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz) Result	Verdict
802.11a	SISO	5180	1	18.520	Pass
		5200	1	18.464	Pass
		5240	1	18.536	Pass
		5260	1	18.375	Pass
		5300	1	18.362	Pass
		5320	1	18.312	Pass
		5500	1	18.274	Pass
		5580	1	18.331	Pass
		5700	1	18.283	Pass
		5745	1	18.506	Pass
		5785	1	18.561	Pass
		5825	1	18.554	Pass
802.11n (HT20)	SISO	5180	1	19.472	Pass
		5200	1	19.314	Pass
		5240	1	19.279	Pass
		5260	1	19.219	Pass
		5300	1	19.188	Pass
		5320	1	19.298	Pass
		5500	1	19.143	Pass
		5580	1	19.173	Pass
		5700	1	19.131	Pass
		5745	1	19.379	Pass
		5785	1	19.367	Pass
		5825	1	19.347	Pass

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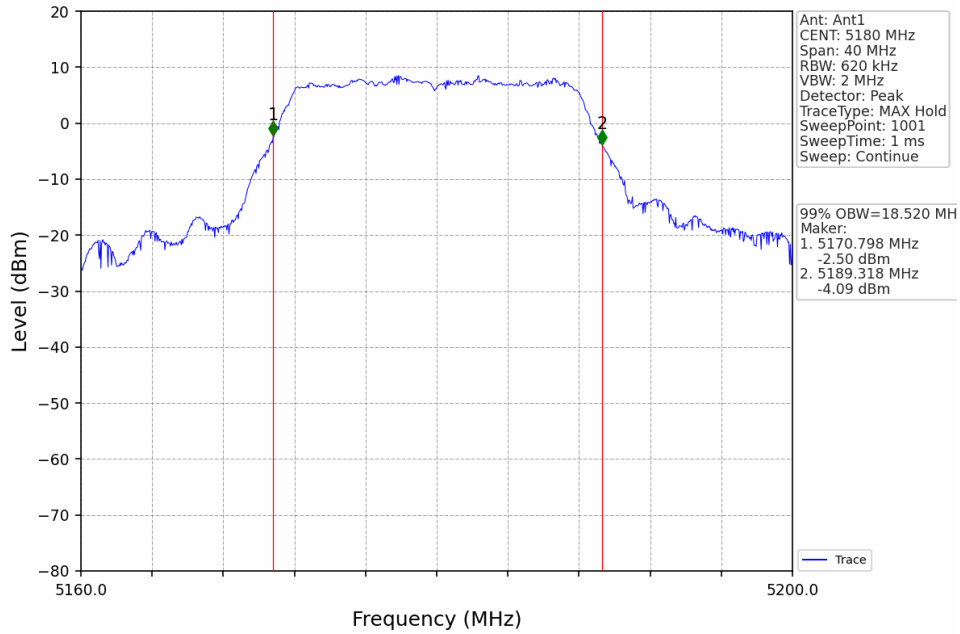
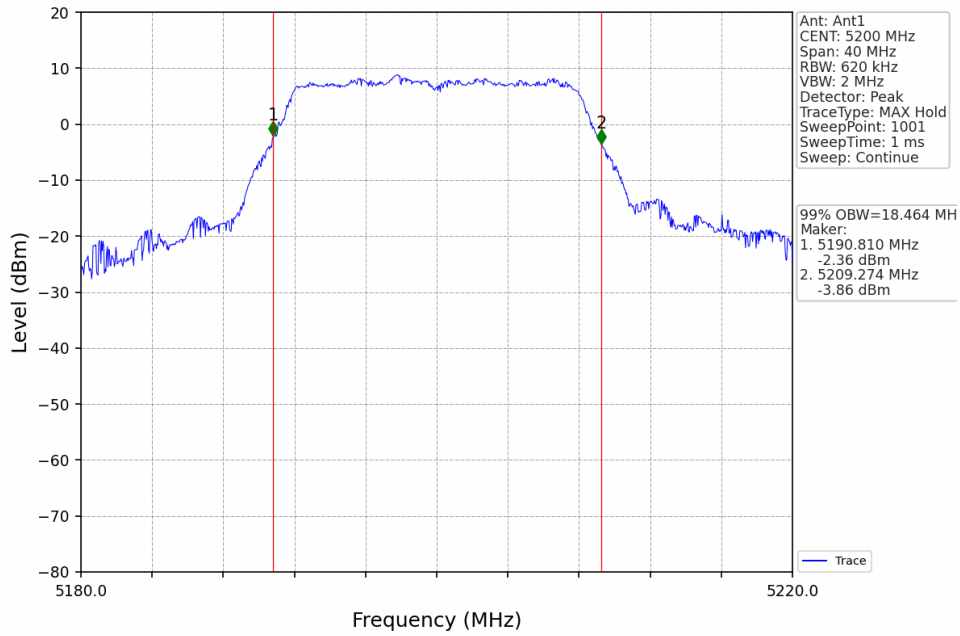
2.1.2 Test Graph

802.11a_LCH_5180MHz_Ant1_NTNV



802.11a_MCH_5200MHz_Ant1_NTNV



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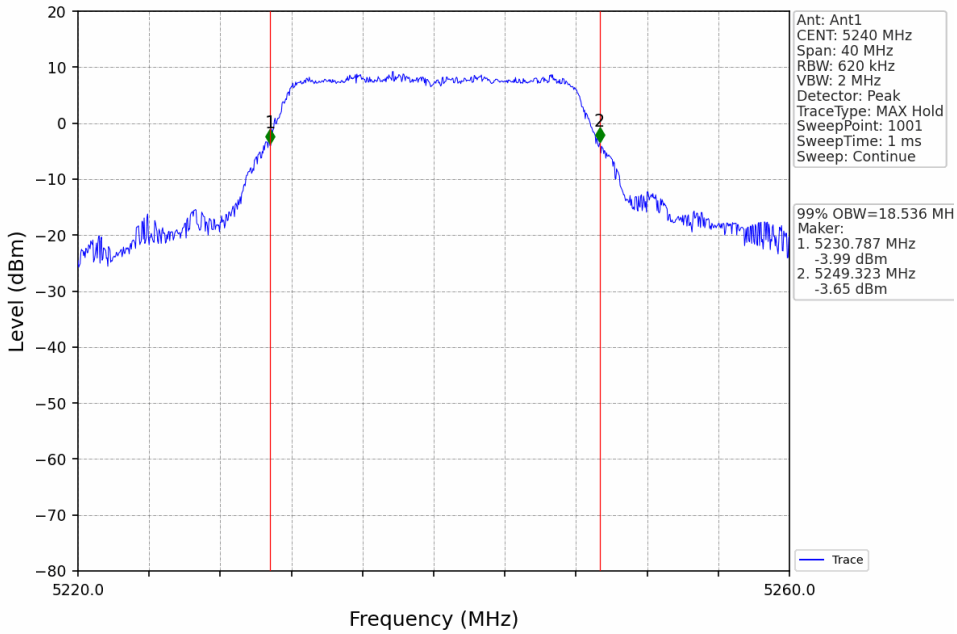
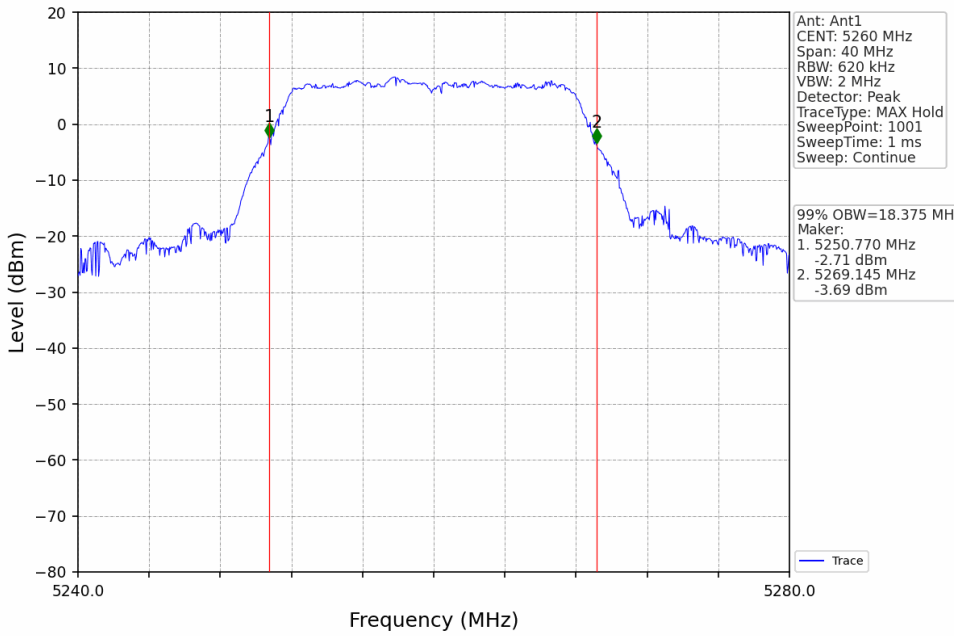
802.11a_HCH_5240MHz_Ant1_NTNV



802.11a_LCH_5260MHz_Ant1_NTNV



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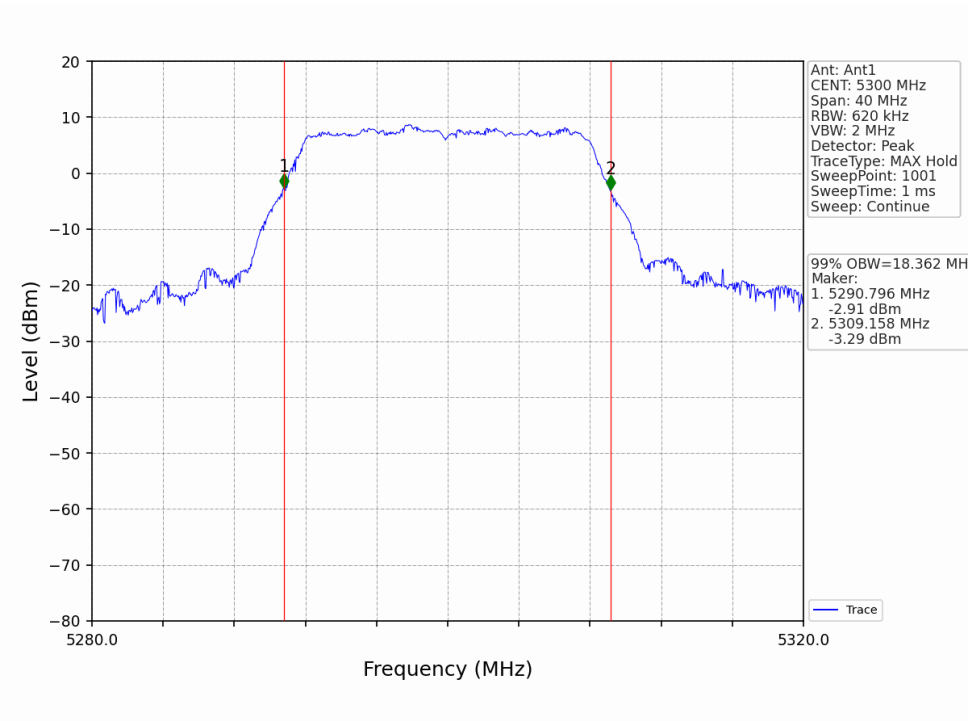
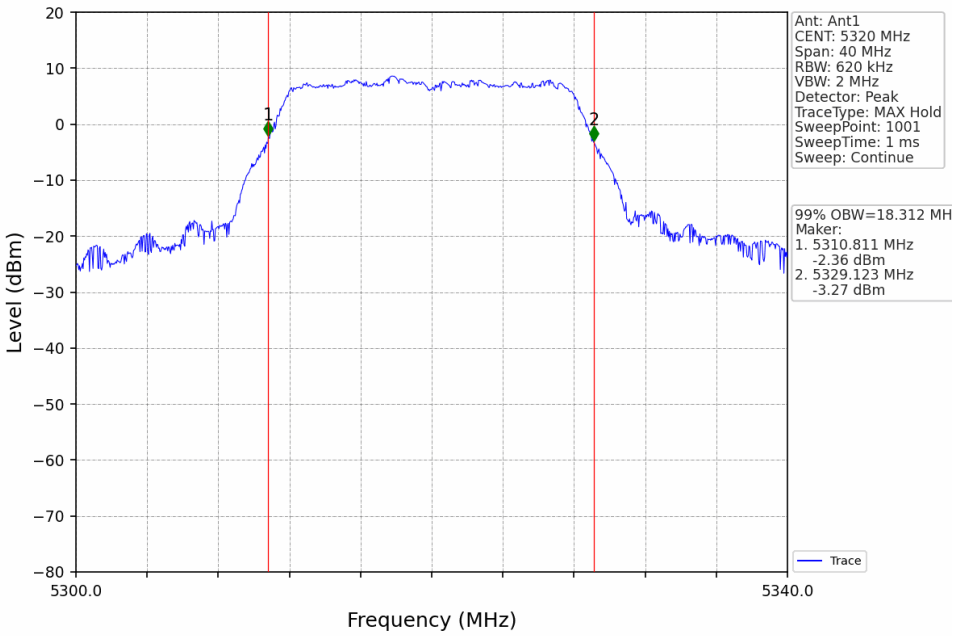
802.11a_MCH_5300MHz_Ant1_NTNV



802.11a_HCH_5320MHz_Ant1_NTNV



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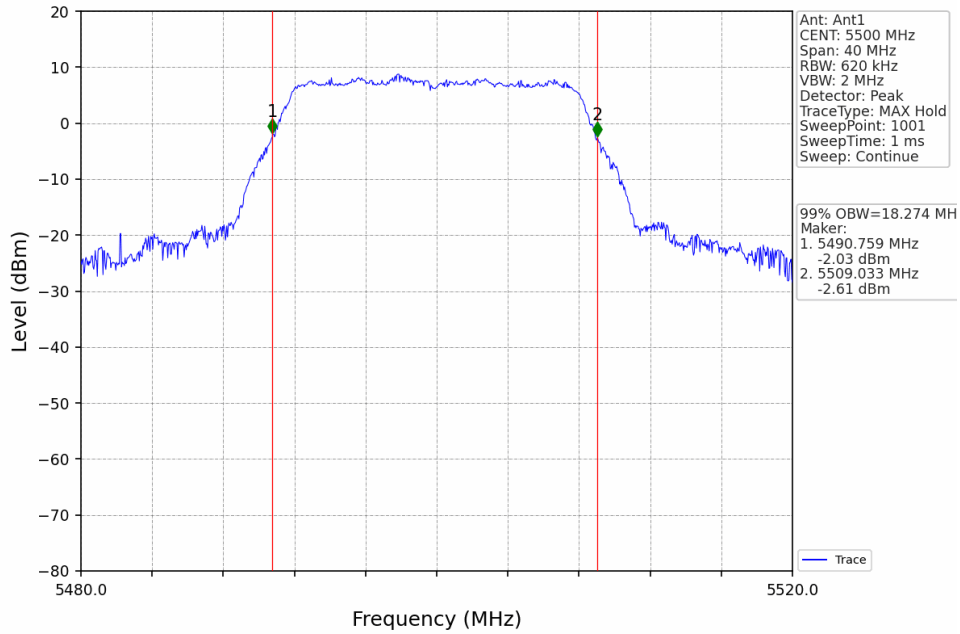
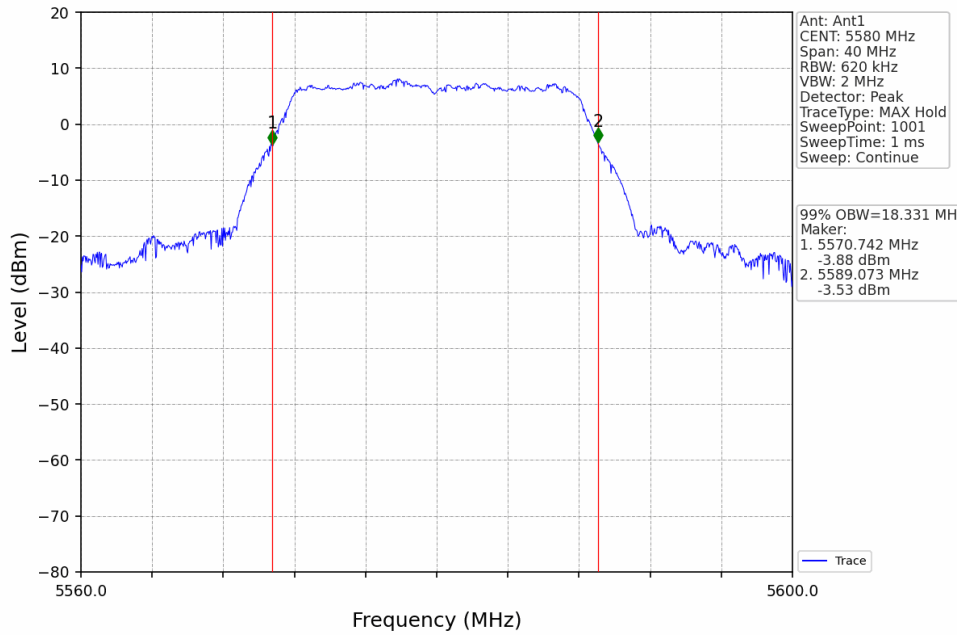
802.11a_LCH_5500MHz_Ant1_NTNV



802.11a_MCH_5580MHz_Ant1_NTNV



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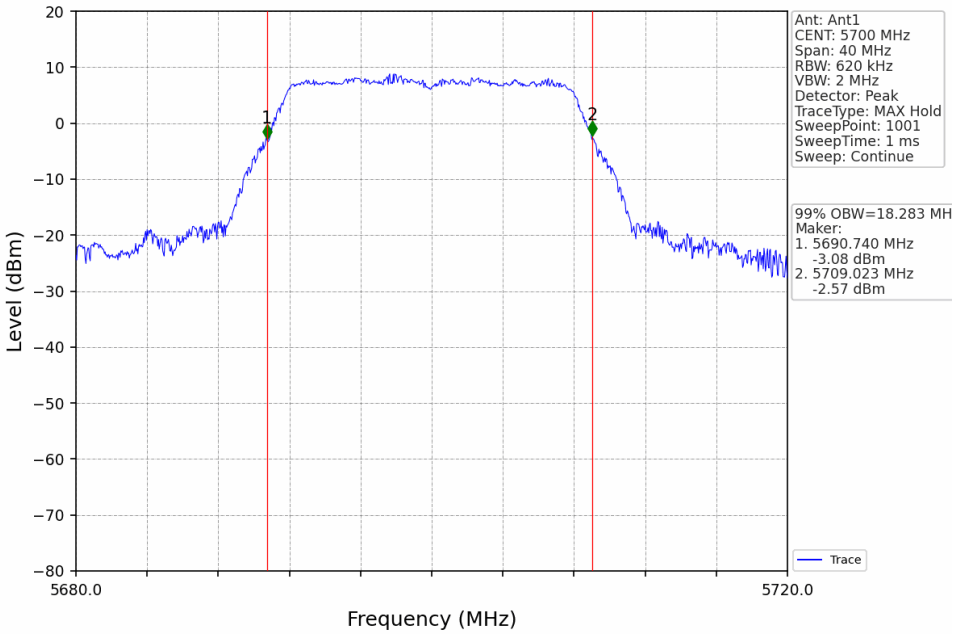
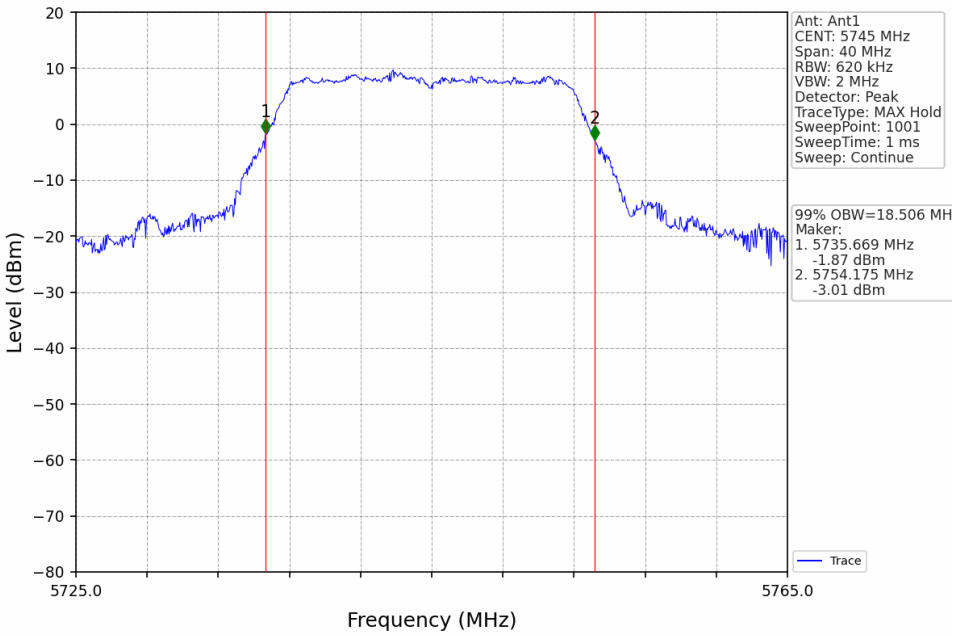
802.11a_HCH_5700MHz_Ant1_NTNV



802.11a_LCH_5745MHz_Ant1_NTNV



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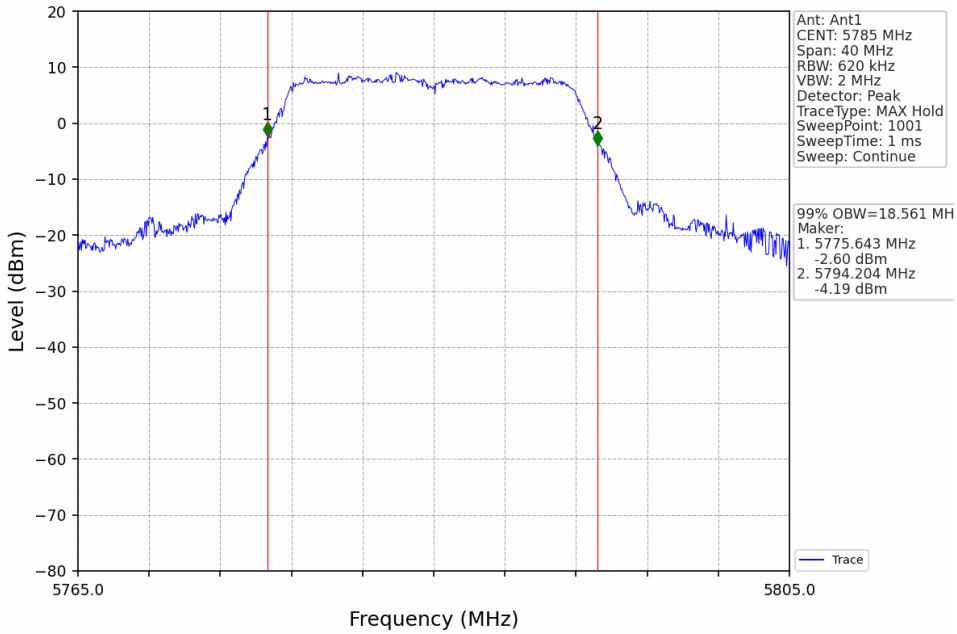
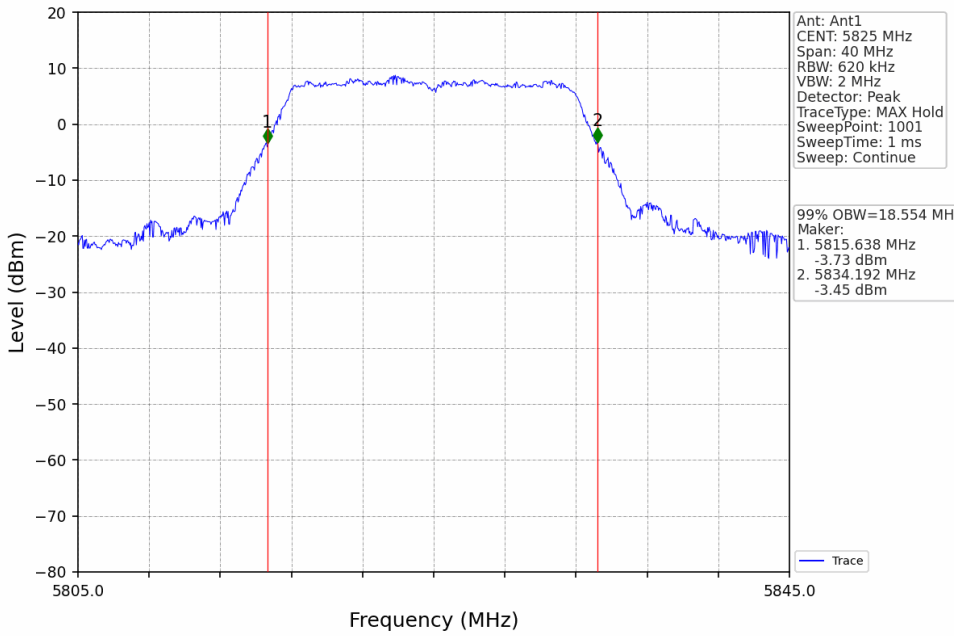
802.11a_MCH_5785MHz_Ant1_NTNV



802.11a_HCH_5825MHz_Ant1_NTNV



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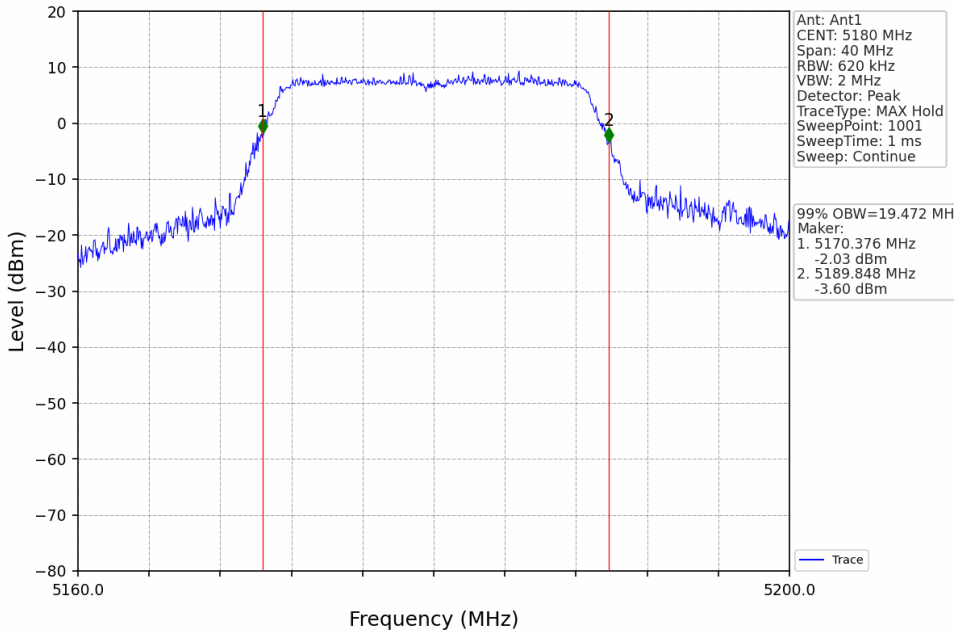
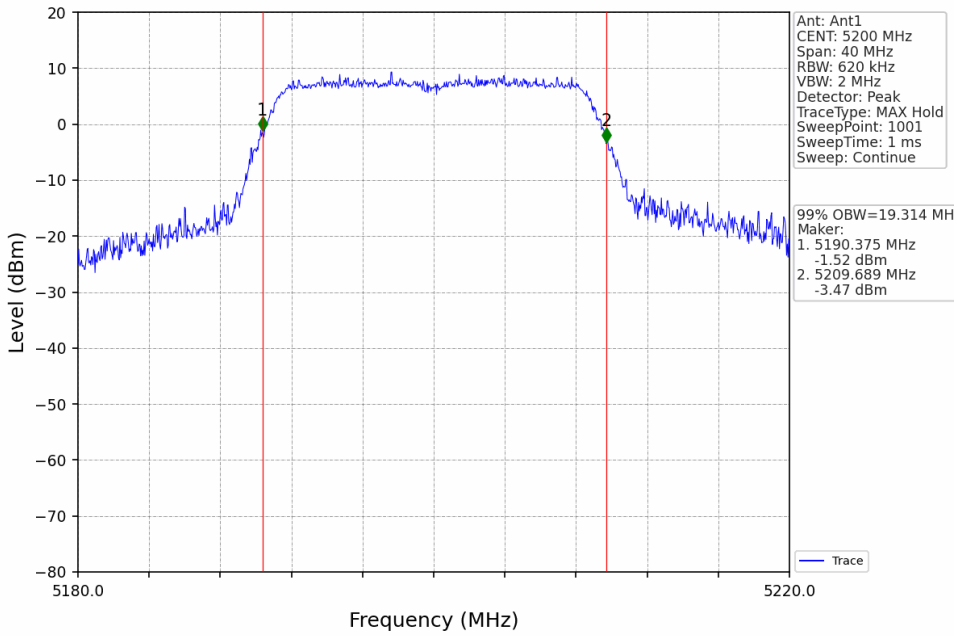
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



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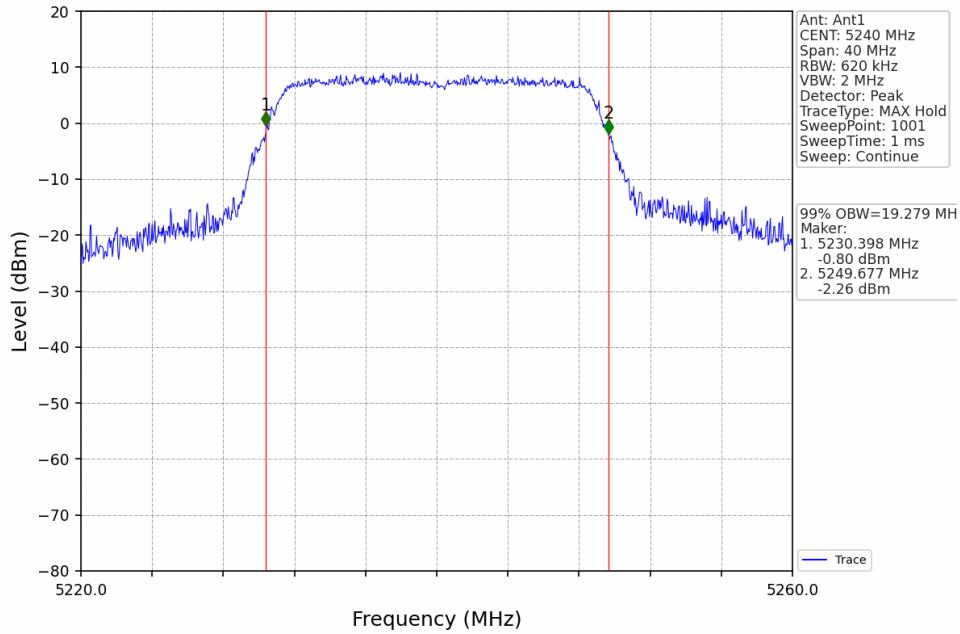
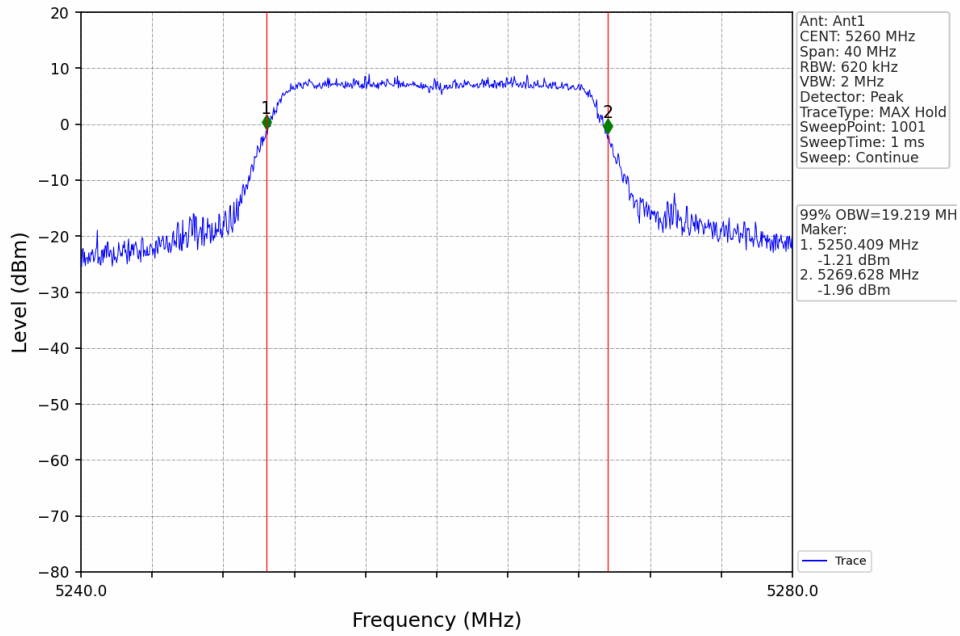
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



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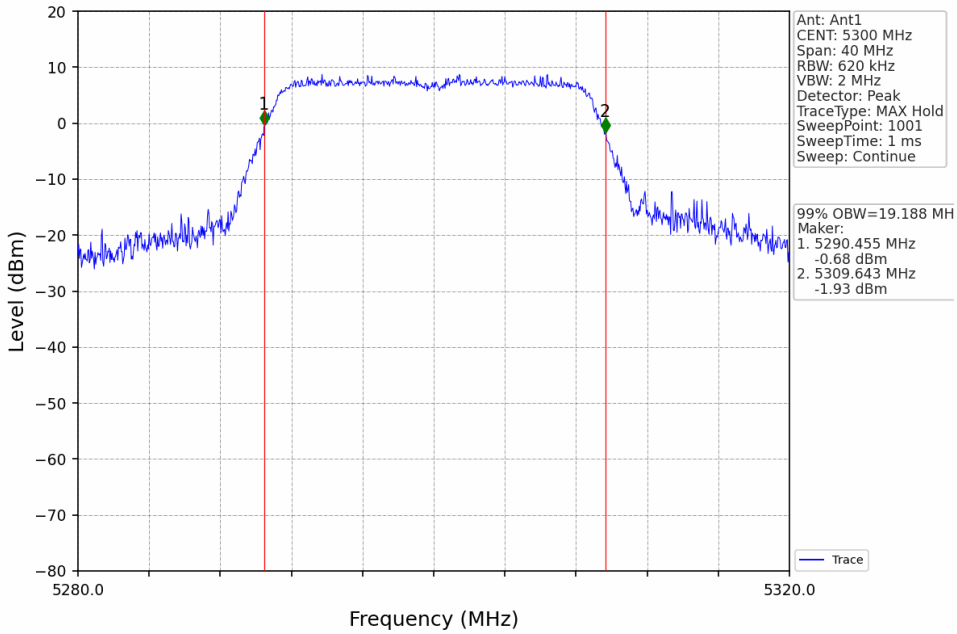
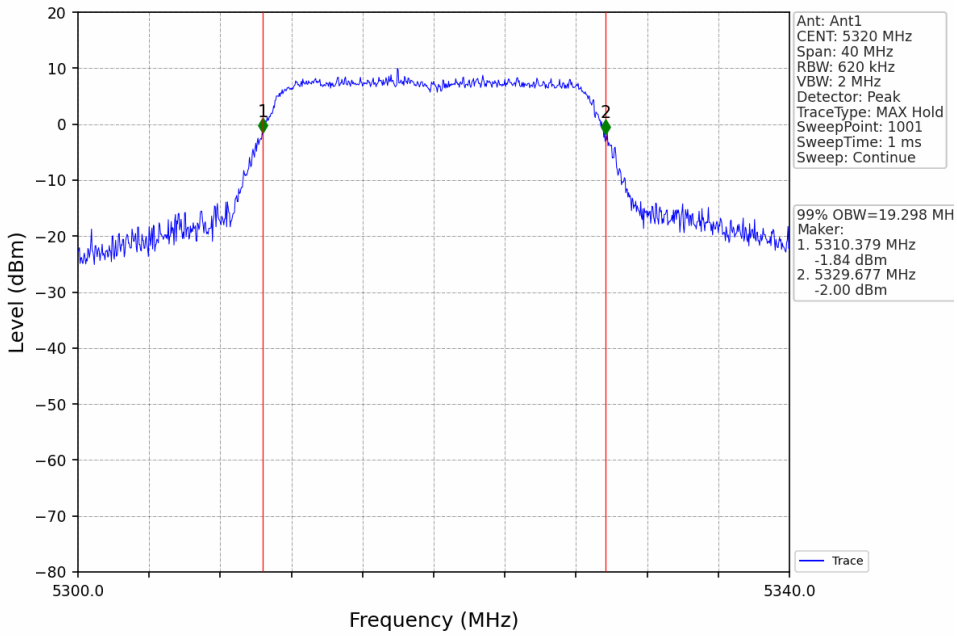
802.11n(HT20)_MCH_5300MHz_Ant1_NTNV



802.11n(HT20)_HCH_5320MHz_Ant1_NTNV



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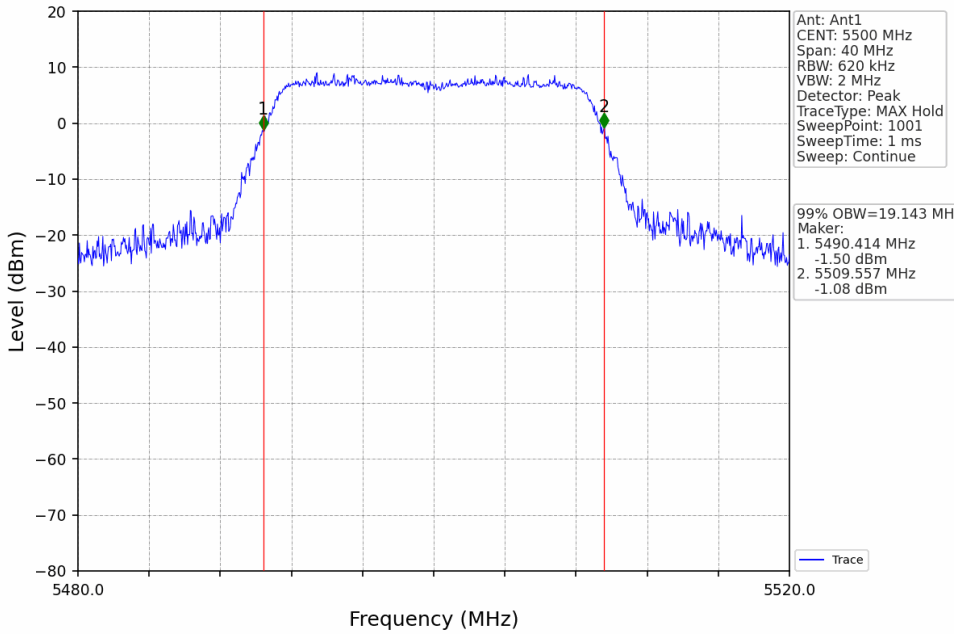
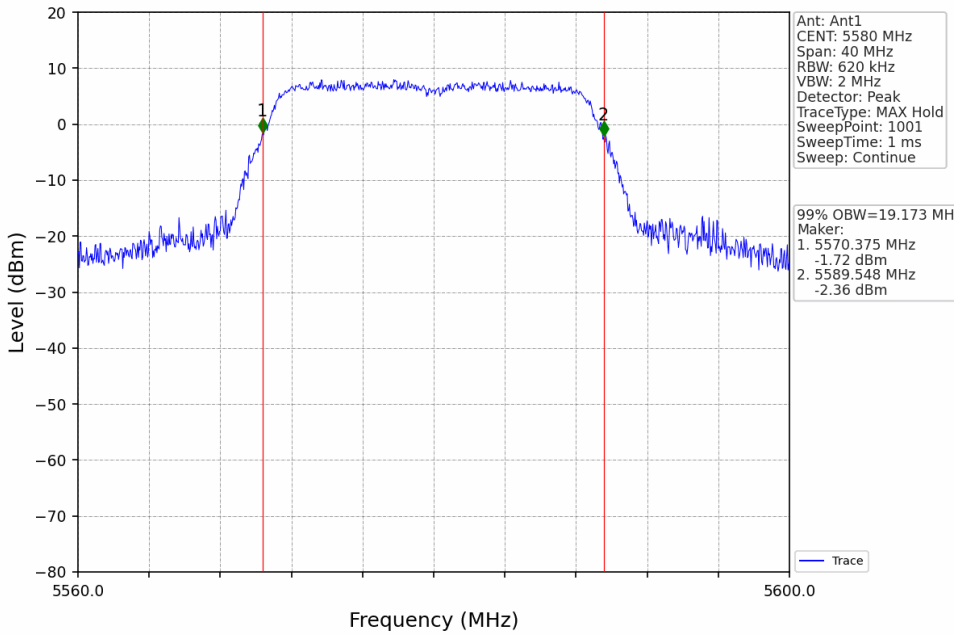
802.11n(HT20)_LCH_5500MHz_Ant1_NTNV



802.11n(HT20)_MCH_5580MHz_Ant1_NTNV



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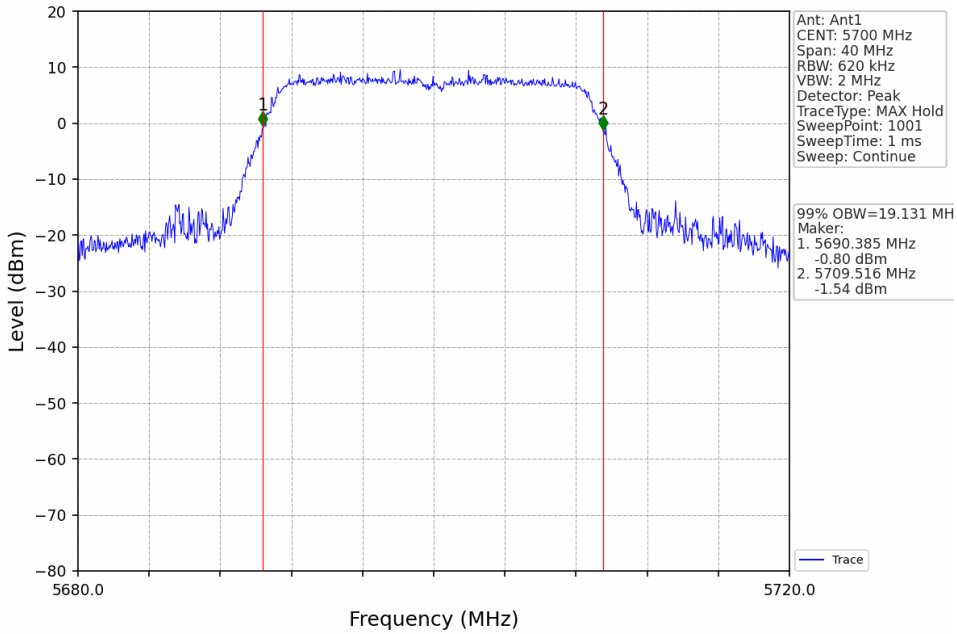
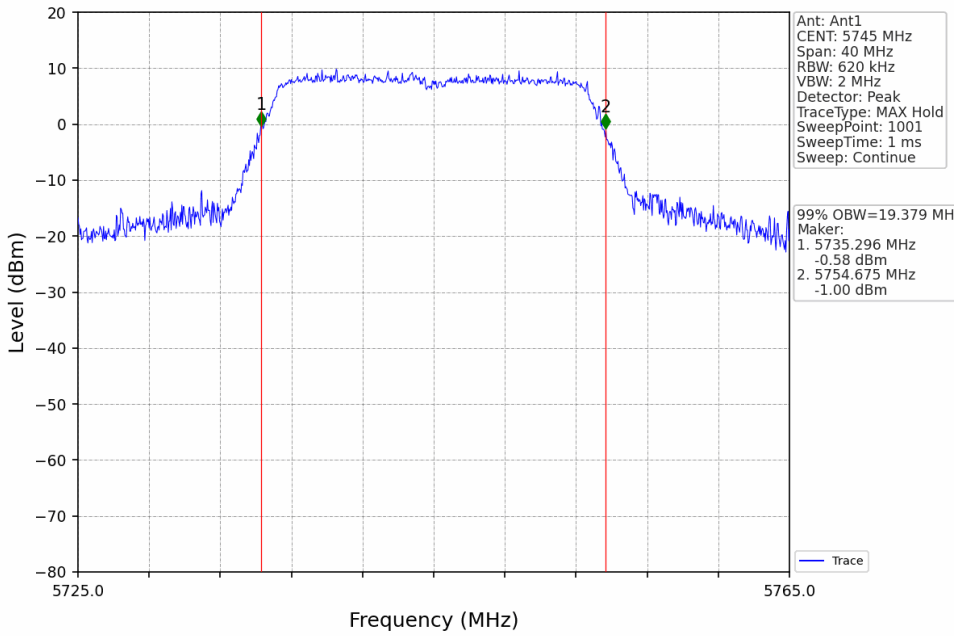
802.11n(HT20)_HCH_5700MHz_Ant1_NTNV



802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



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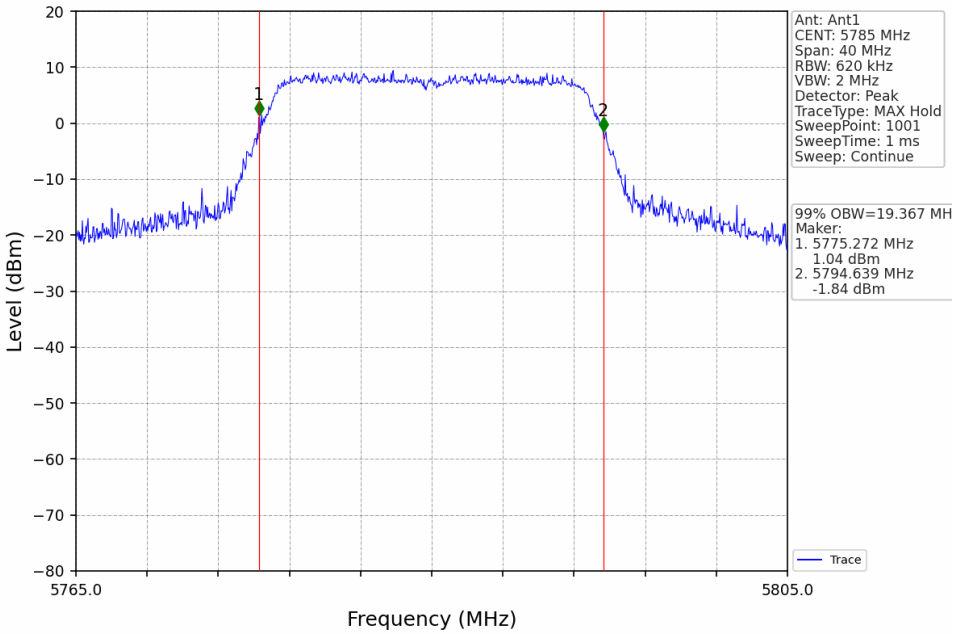
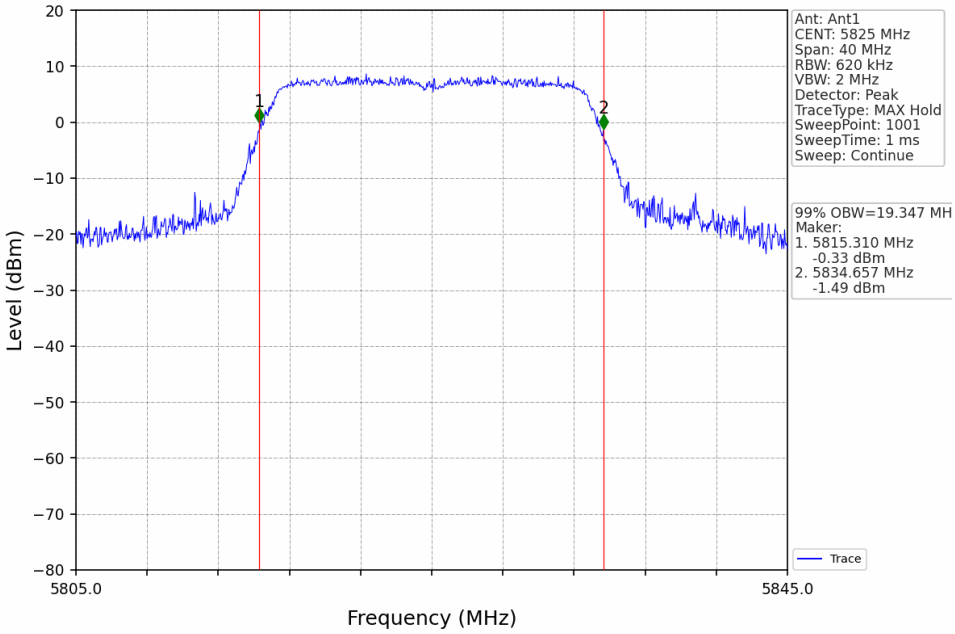
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



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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	16.407	>=0.5	Pass
		5785	1	16.399	>=0.5	Pass
		5825	1	16.395	>=0.5	Pass
802.11n (HT20)	SISO	5745	1	17.638	>=0.5	Pass
		5785	1	17.619	>=0.5	Pass
		5825	1	17.663	>=0.5	Pass

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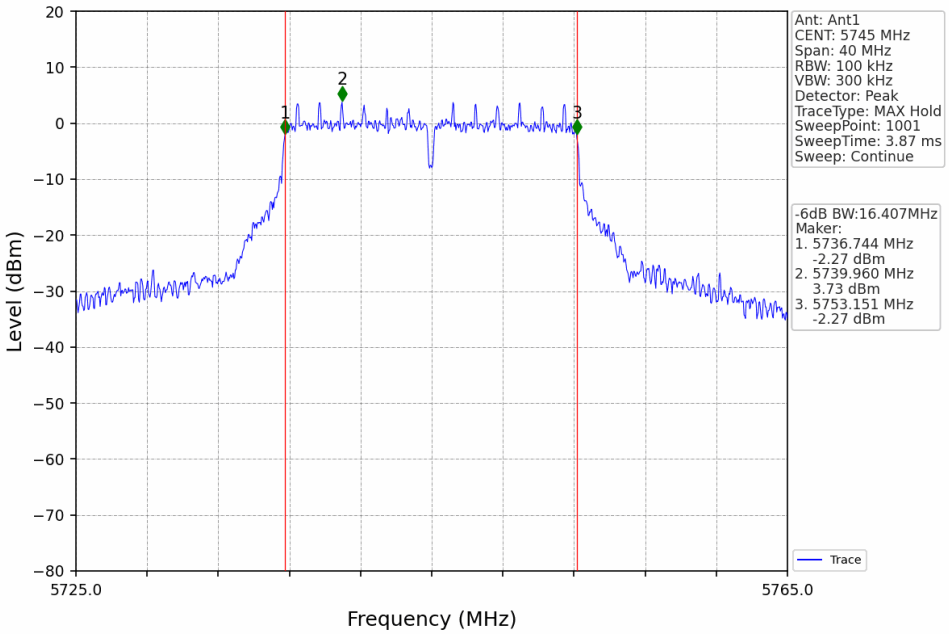
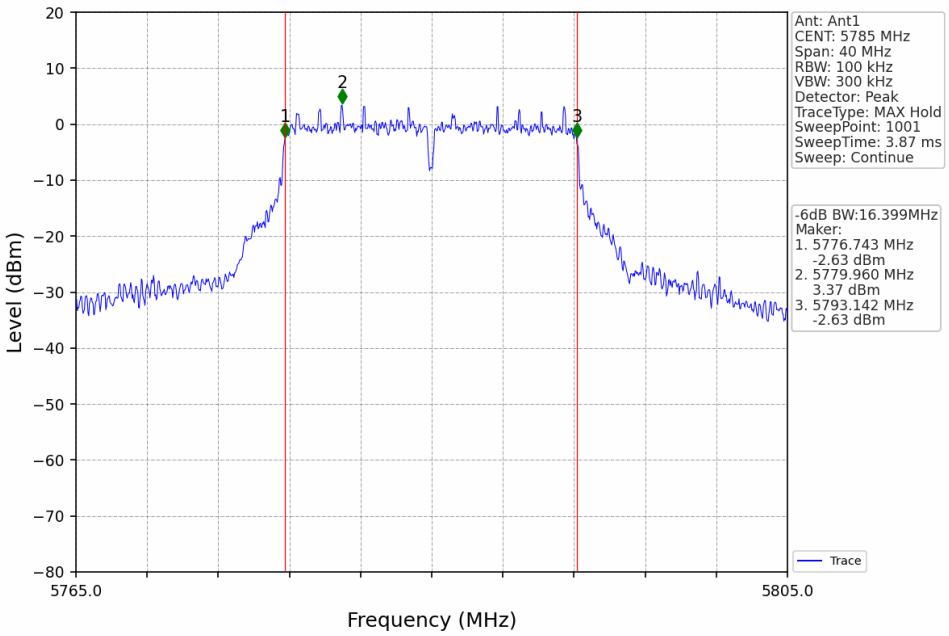
2.2.2 Test Graph

802.11a_LCH_5745MHz_Ant1_NTNV



802.11a_MCH_5785MHz_Ant1_NTNV



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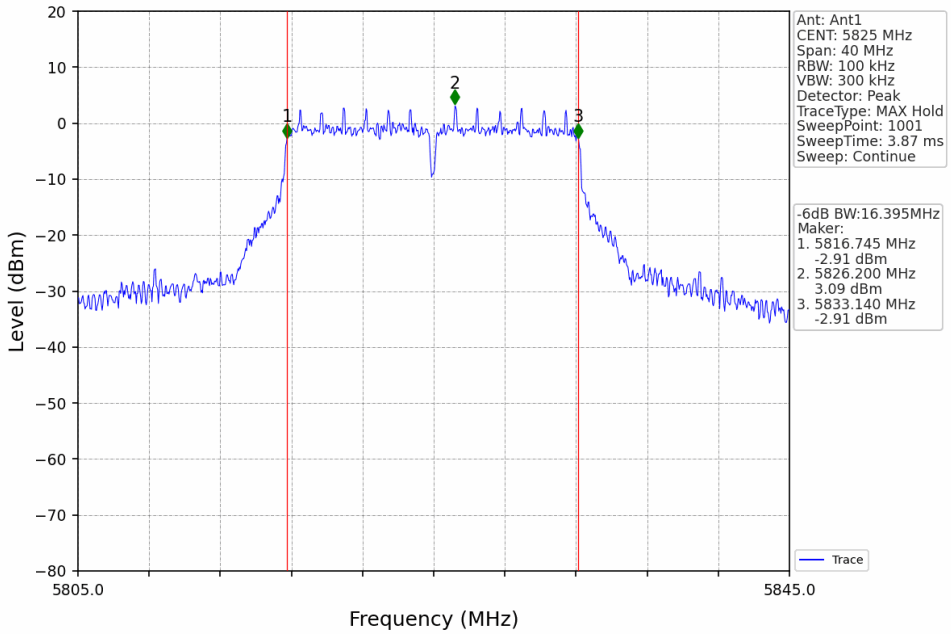
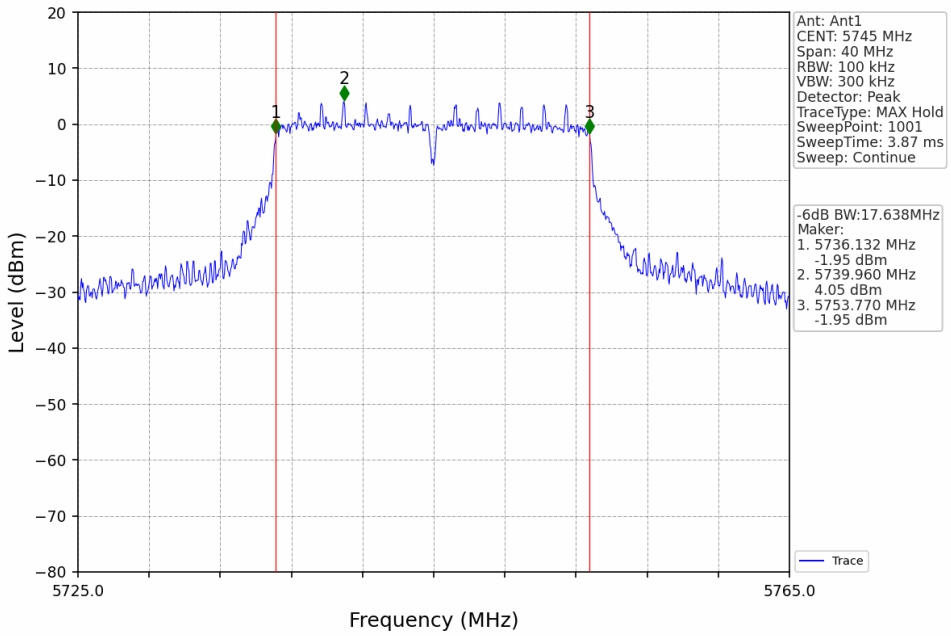
802.11a_HCH_5825MHz_Ant1_NTNV



802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



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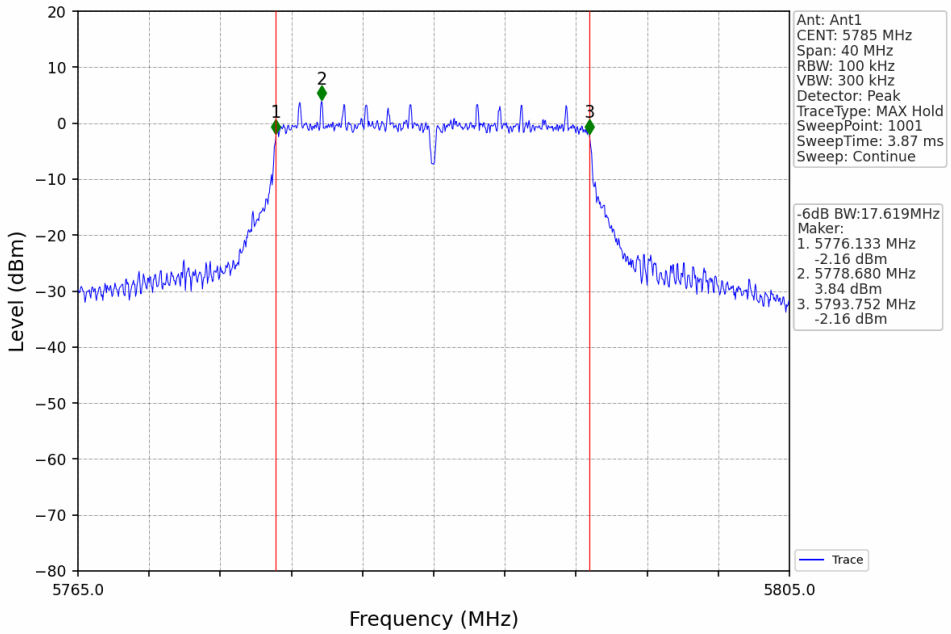
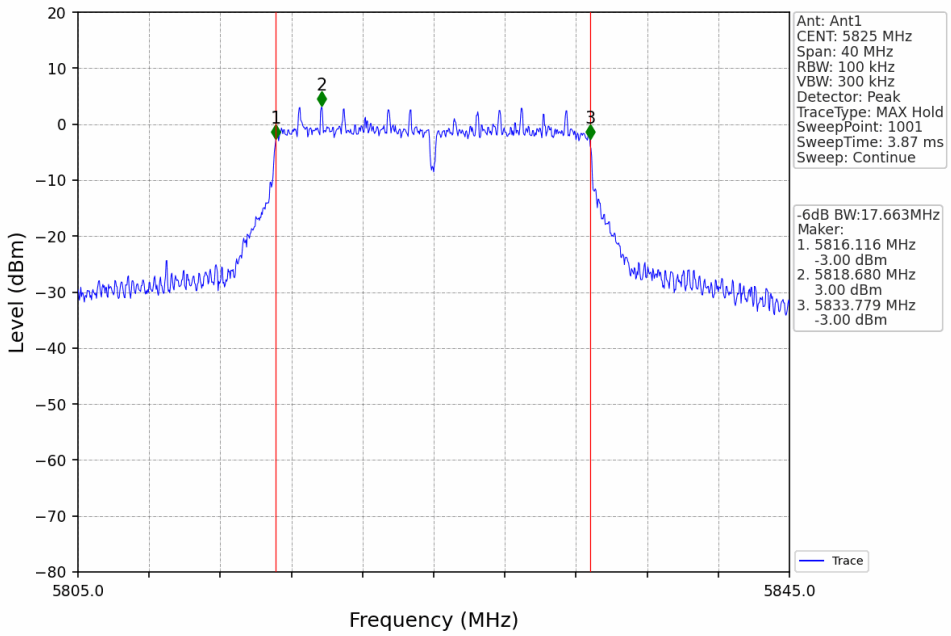
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



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2.3 26dB BW

2.3.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz) Result	Verdict
802.11a	SISO	5180	1	21.661	Pass
		5200	1	22.898	Pass
		5240	1	23.217	Pass
		5260	1	21.595	Pass
		5300	1	21.514	Pass
		5320	1	21.597	Pass
		5500	1	21.391	Pass
		5580	1	21.388	Pass
		5700	1	21.503	Pass
802.11n (HT20)	SISO	5180	1	27.040	Pass
		5200	1	23.734	Pass
		5240	1	25.358	Pass
		5260	1	23.556	Pass
		5300	1	22.099	Pass
		5320	1	23.267	Pass
		5500	1	22.008	Pass
		5580	1	21.668	Pass
		5700	1	21.726	Pass

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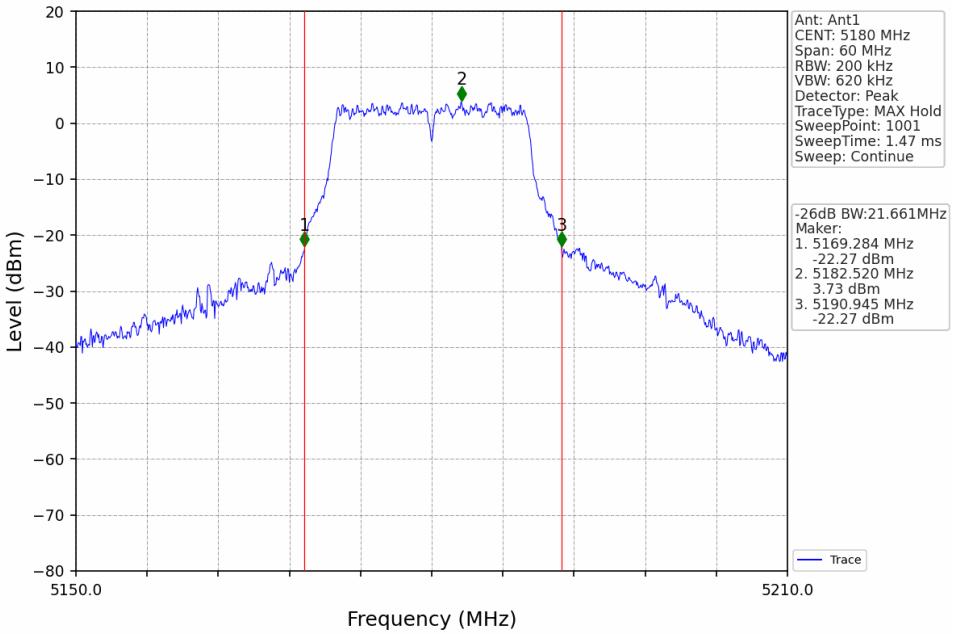
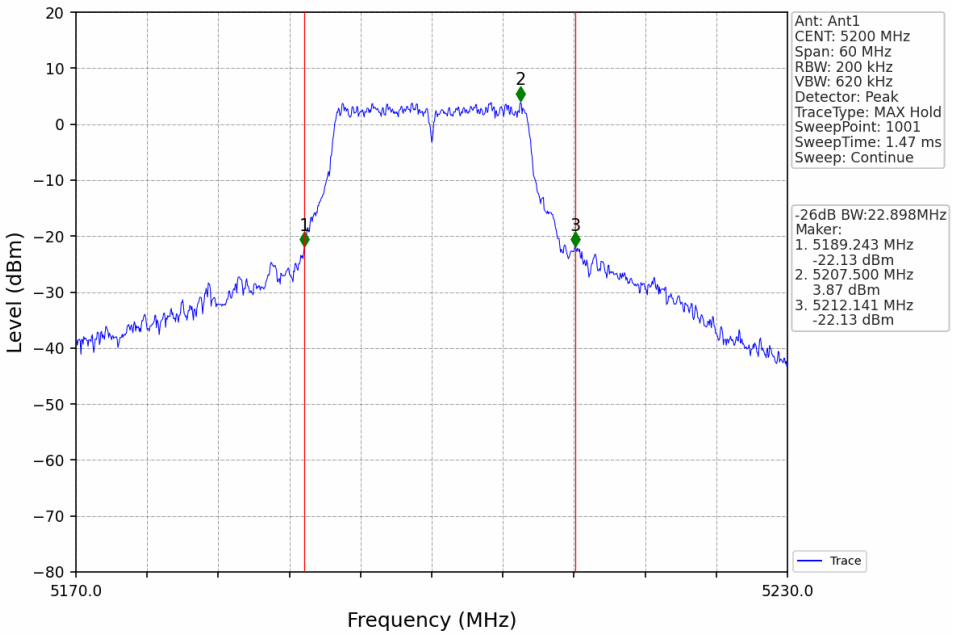
2.3.2 Test Graph

802.11a_LCH_5180MHz_Ant1_NTNV



802.11a_MCH_5200MHz_Ant1_NTNV



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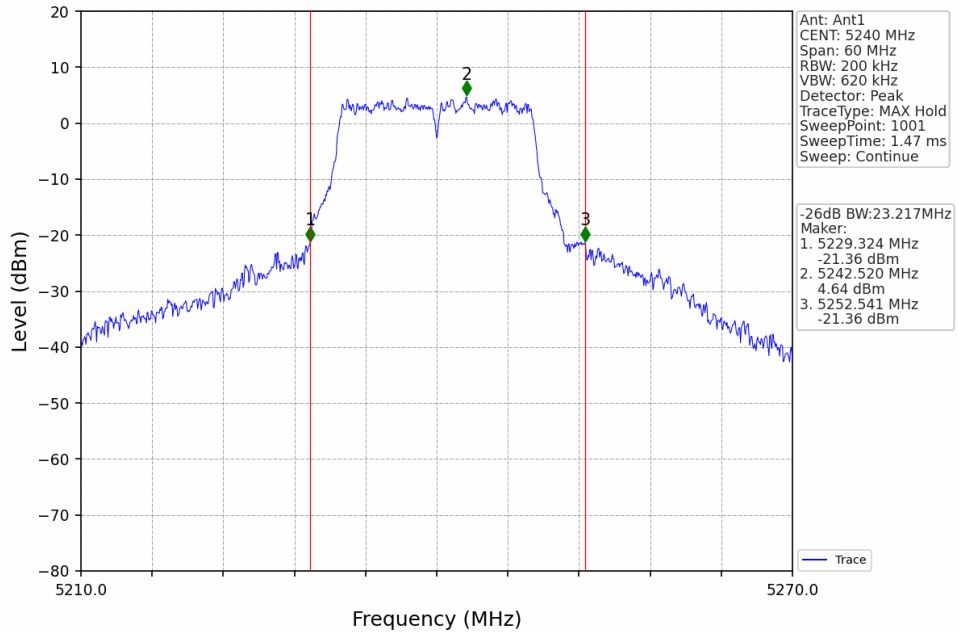
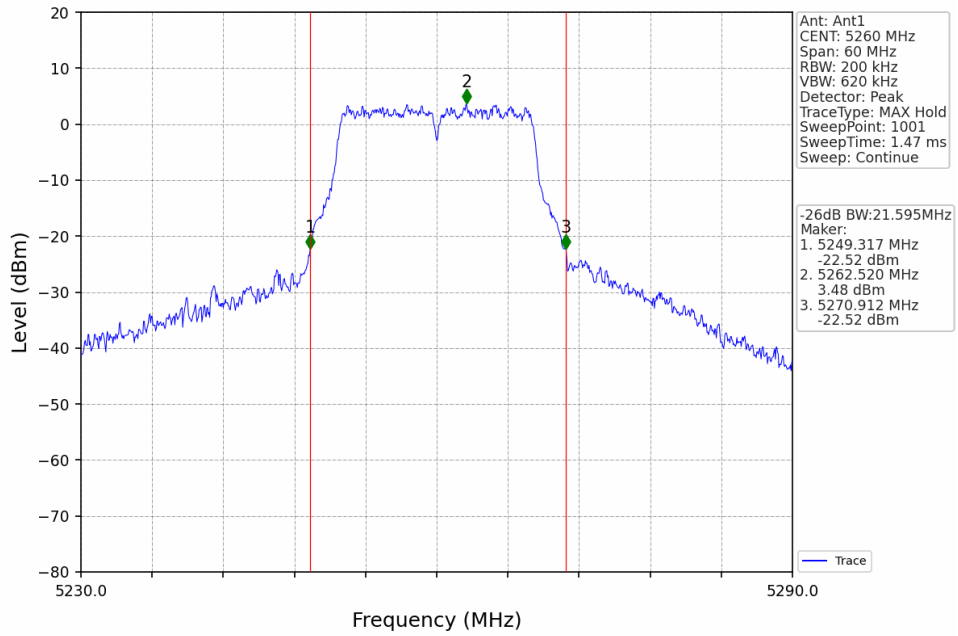
802.11a_HCH_5240MHz_Ant1_NTNV



802.11a_LCH_5260MHz_Ant1_NTNV



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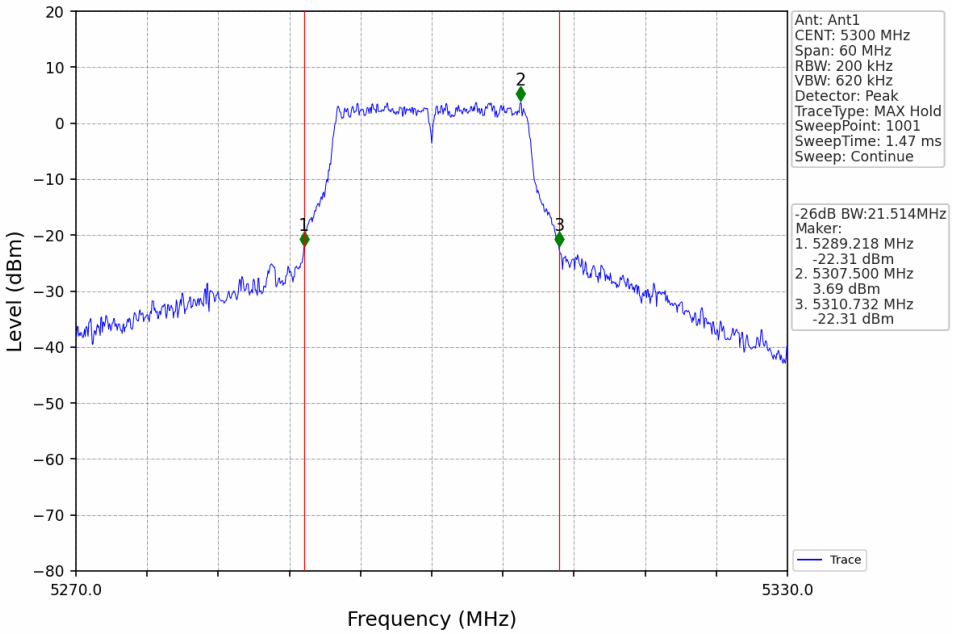
802.11a_MCH_5300MHz_Ant1_NTNV



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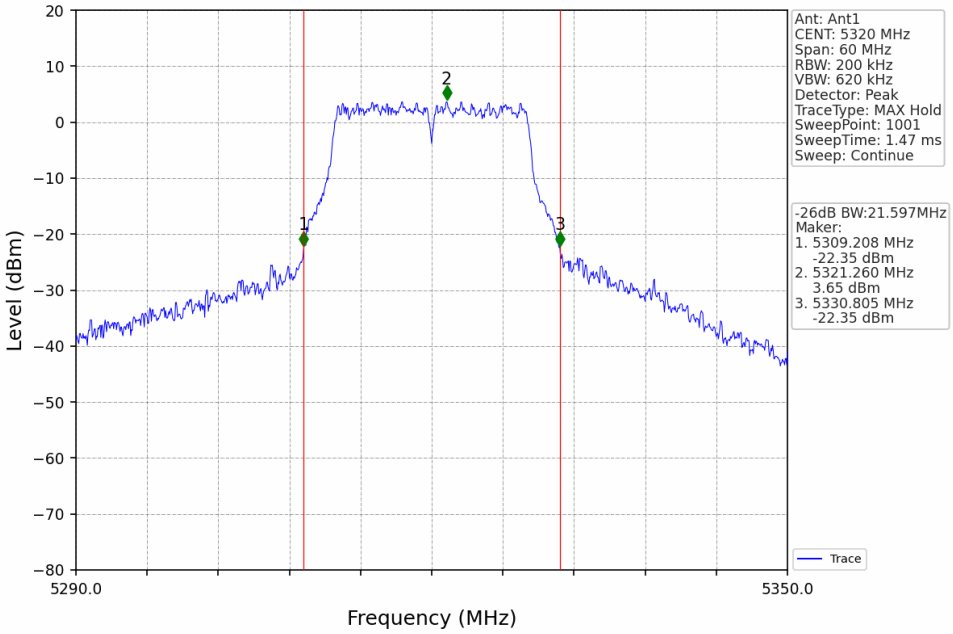

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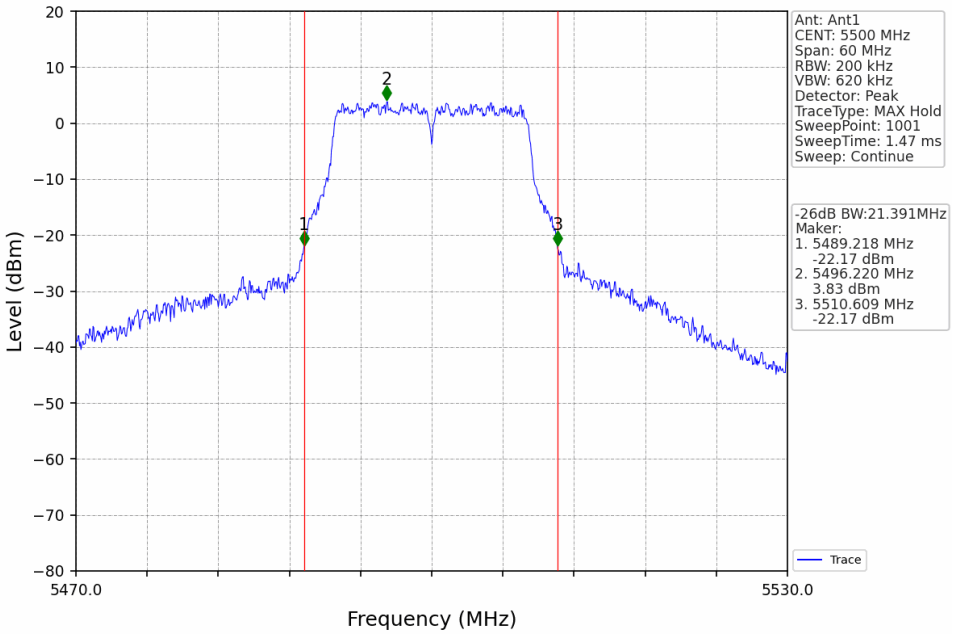
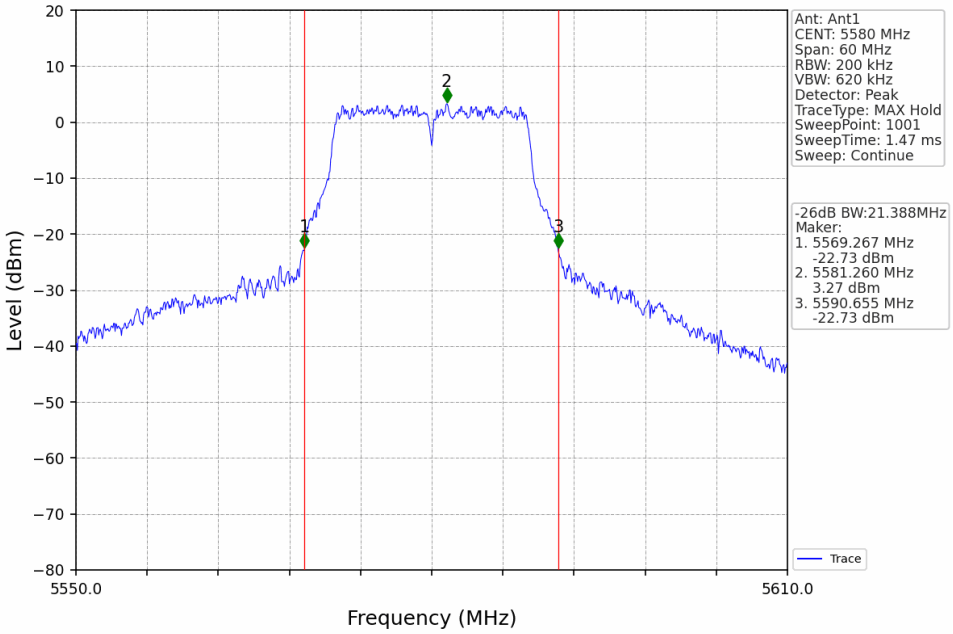
802.11a_LCH_5500MHz_Ant1_NTNV



802.11a_MCH_5580MHz_Ant1_NTNV



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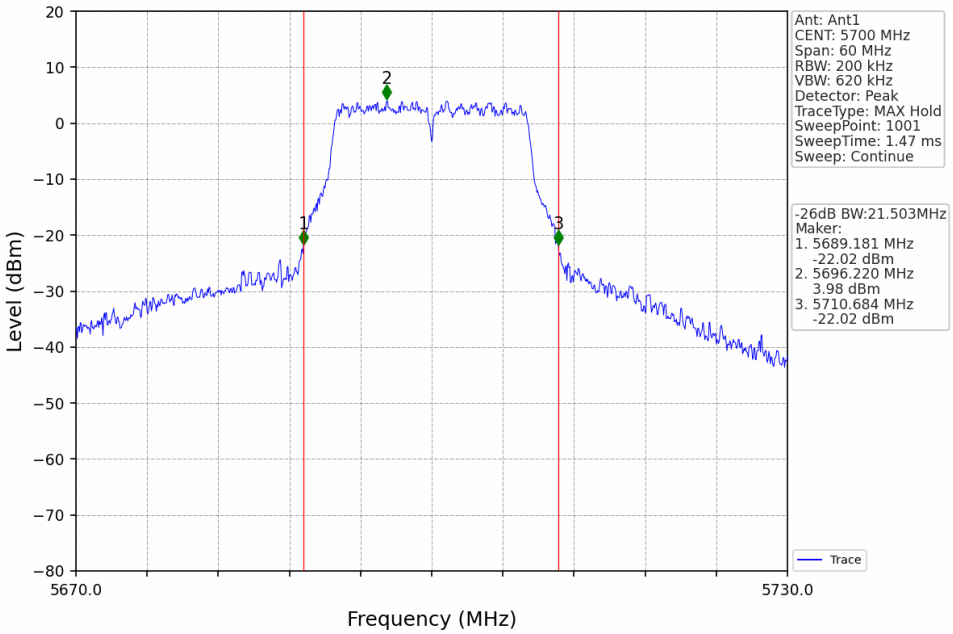
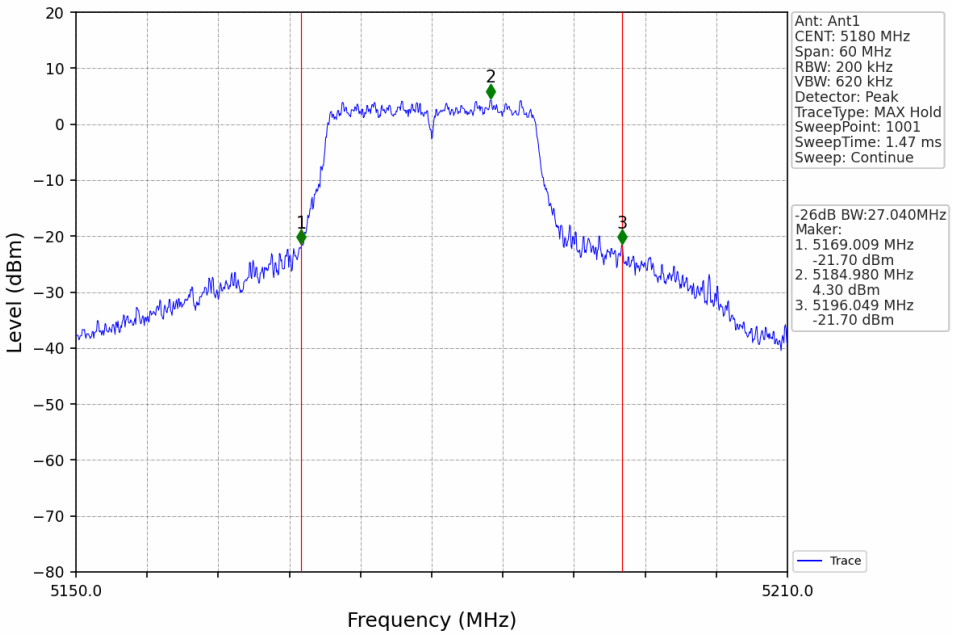
802.11a_HCH_5700MHz_Ant1_NTNV



802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



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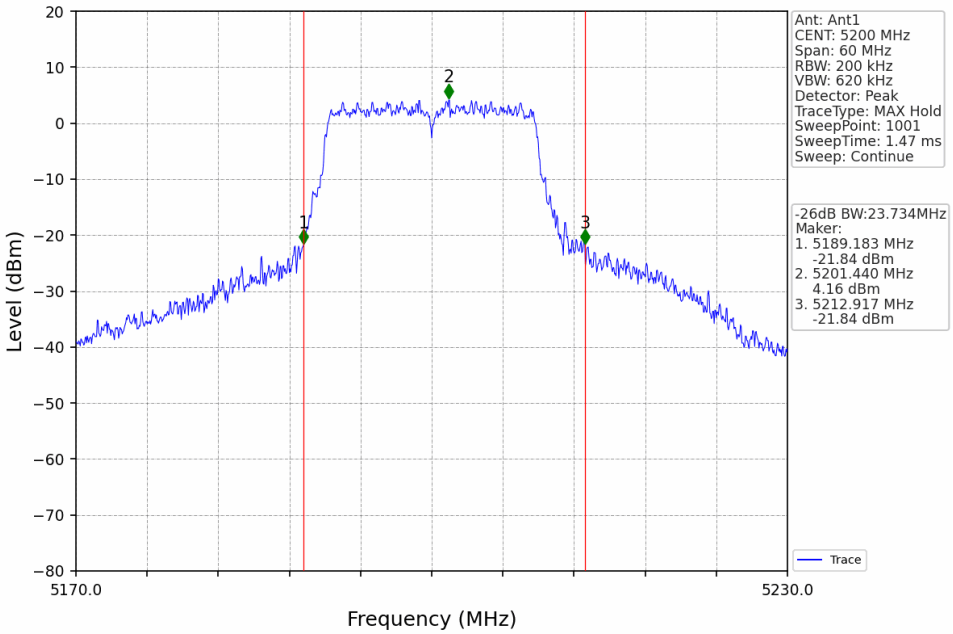
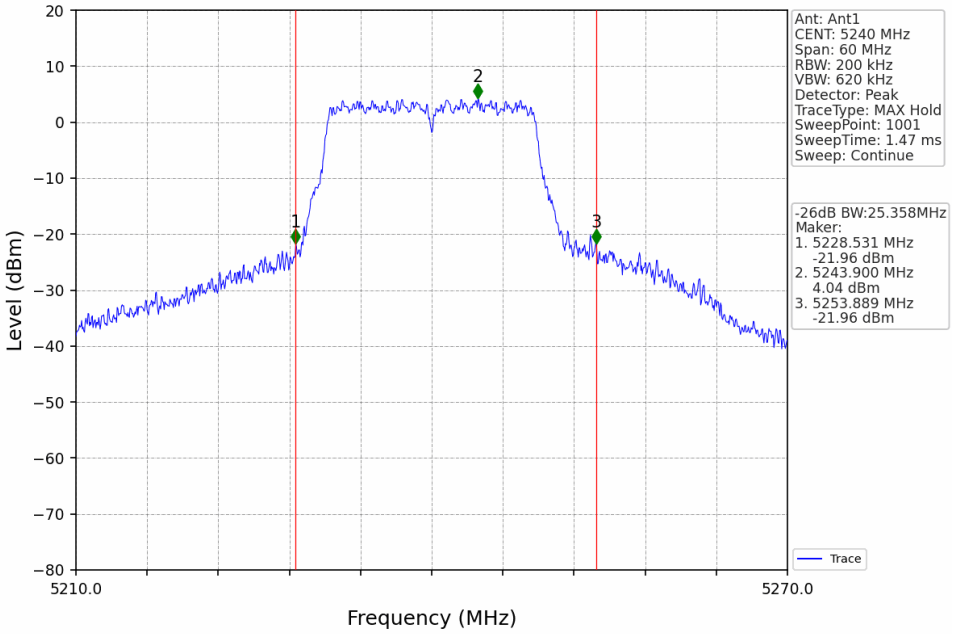
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



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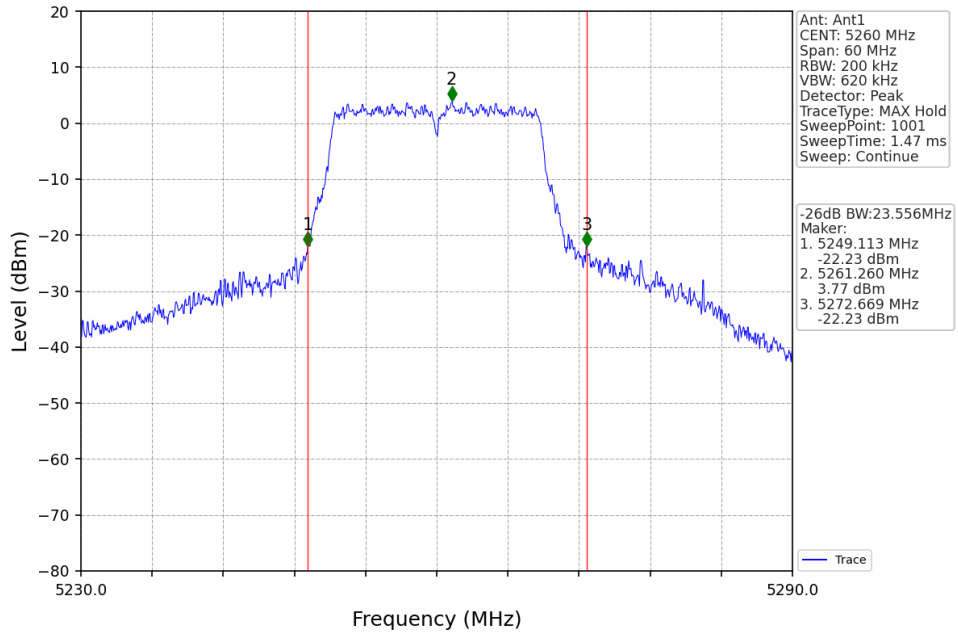
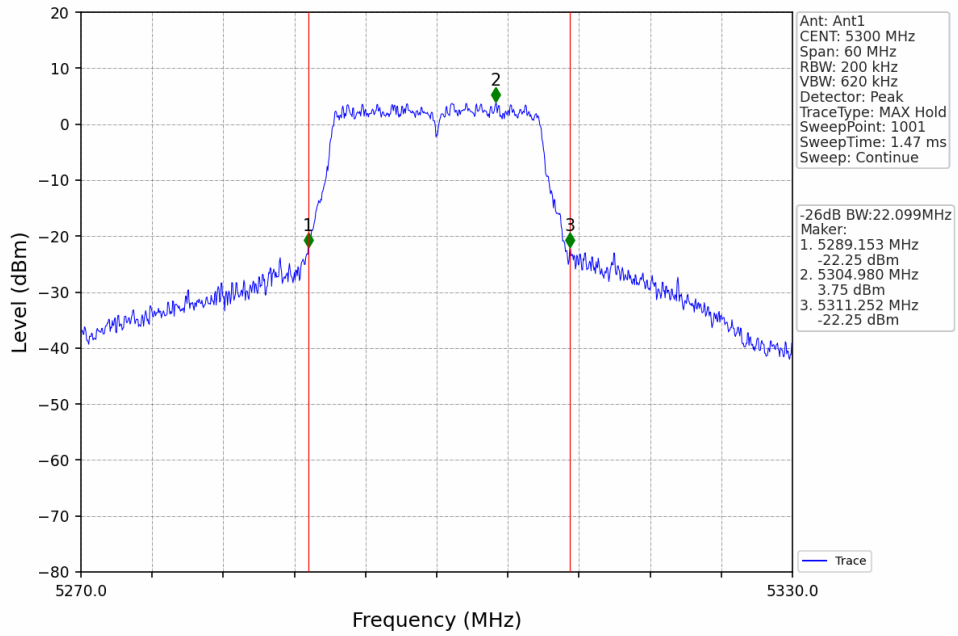
802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



802.11n(HT20)_MCH_5300MHz_Ant1_NTNV



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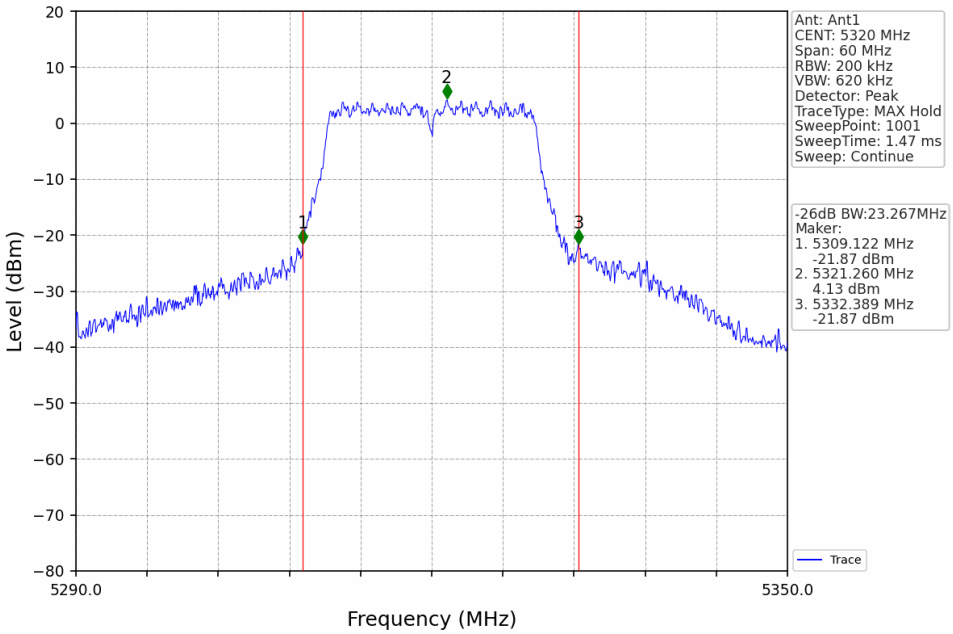
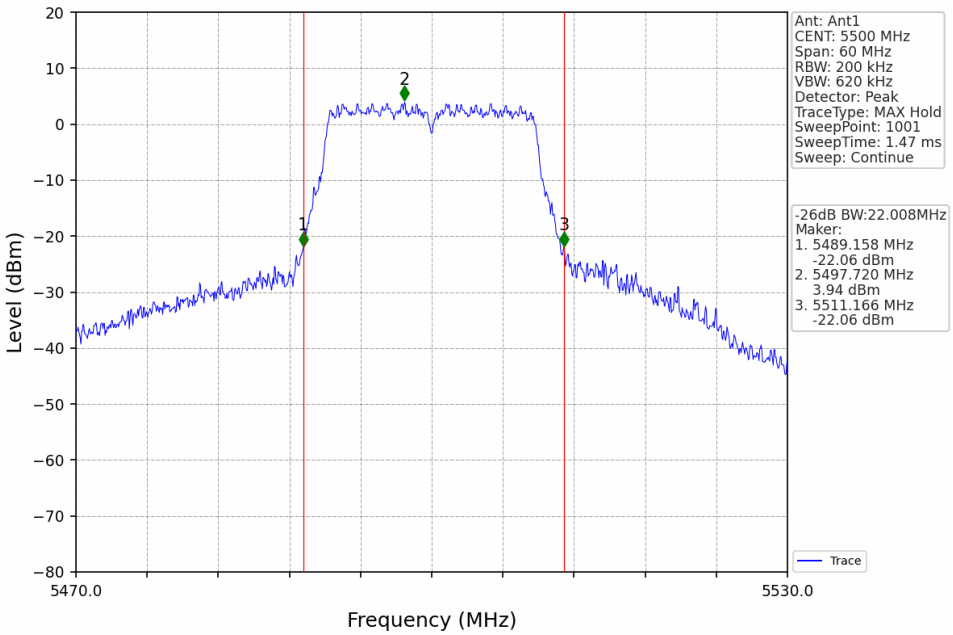
802.11n(HT20)_HCH_5320MHz_Ant1_NTNV



802.11n(HT20)_LCH_5500MHz_Ant1_NTNV



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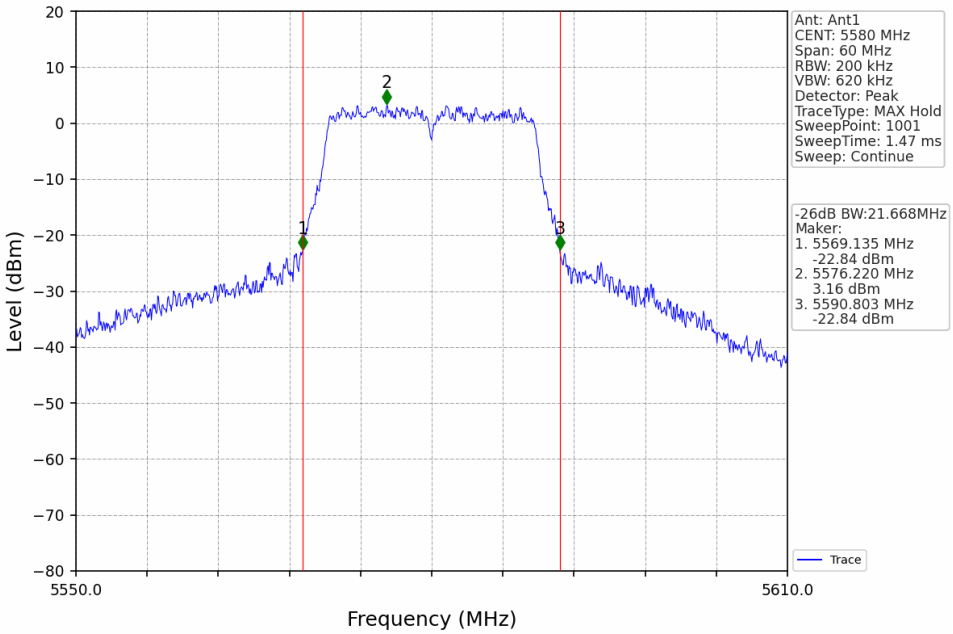
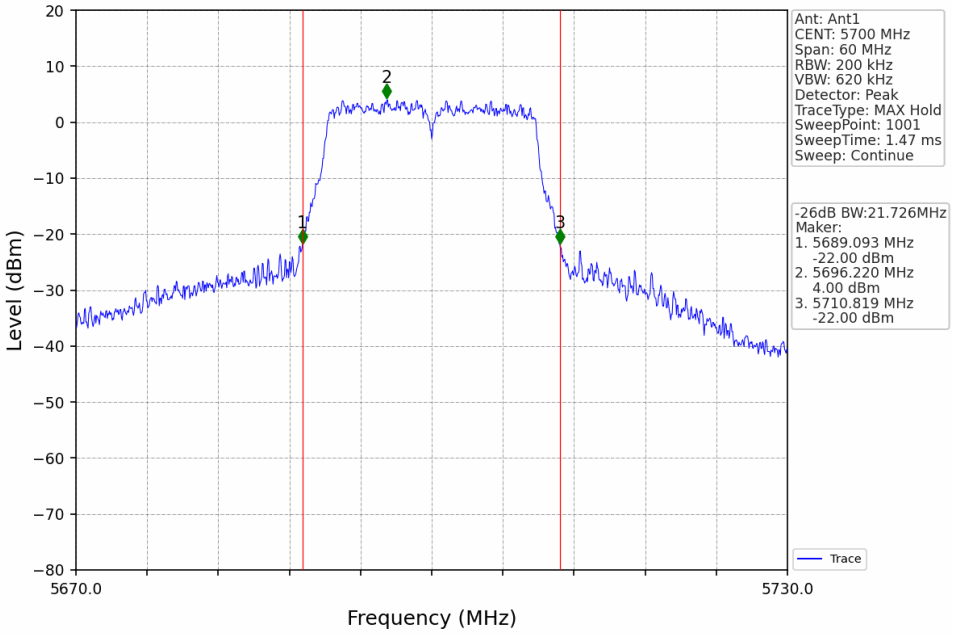
802.11n(HT20)_MCH_5580MHz_Ant1_NTNV



802.11n(HT20)_HCH_5700MHz_Ant1_NTNV



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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	14.06	<=23.98	Pass
		5200	14.35	<=23.98	Pass
		5240	14.42	<=23.98	Pass
		5260	14.19	<=23.98	Pass
		5300	14.24	<=23.98	Pass
		5320	14.08	<=23.98	Pass
		5500	14.13	<=23.98	Pass
		5580	13.50	<=23.98	Pass
		5700	14.28	<=23.98	Pass
		5745	14.79	<=30	Pass
		5785	14.42	<=30	Pass
		5825	14.15	<=30	Pass
802.11n (HT20)	SISO	5180	14.14	<=23.98	Pass
		5200	14.36	<=23.98	Pass
		5240	14.38	<=23.98	Pass
		5260	14.04	<=23.98	Pass
		5300	14.10	<=23.98	Pass
		5320	14.26	<=23.98	Pass
		5500	14.05	<=23.98	Pass
		5580	13.55	<=23.98	Pass
		5700	14.18	<=23.98	Pass
		5745	14.82	<=30	Pass
		5785	14.56	<=30	Pass
		5825	14.17	<=30	Pass

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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	2.73	<=11	Pass
		5200	2.90	<=11	Pass
		5240	3.00	<=11	Pass
		5260	2.89	<=11	Pass
		5300	2.86	<=11	Pass
		5320	2.71	<=11	Pass
		5500	2.80	<=11	Pass
		5580	2.22	<=11	Pass
		5700	3.01	<=11	Pass
802.11n (HT20)	SISO	5180	2.38	<=11	Pass
		5200	2.39	<=11	Pass
		5240	2.65	<=11	Pass
		5260	2.42	<=11	Pass
		5300	2.39	<=11	Pass
		5320	2.52	<=11	Pass
		5500	2.46	<=11	Pass
		5580	1.93	<=11	Pass
		5700	2.64	<=11	Pass

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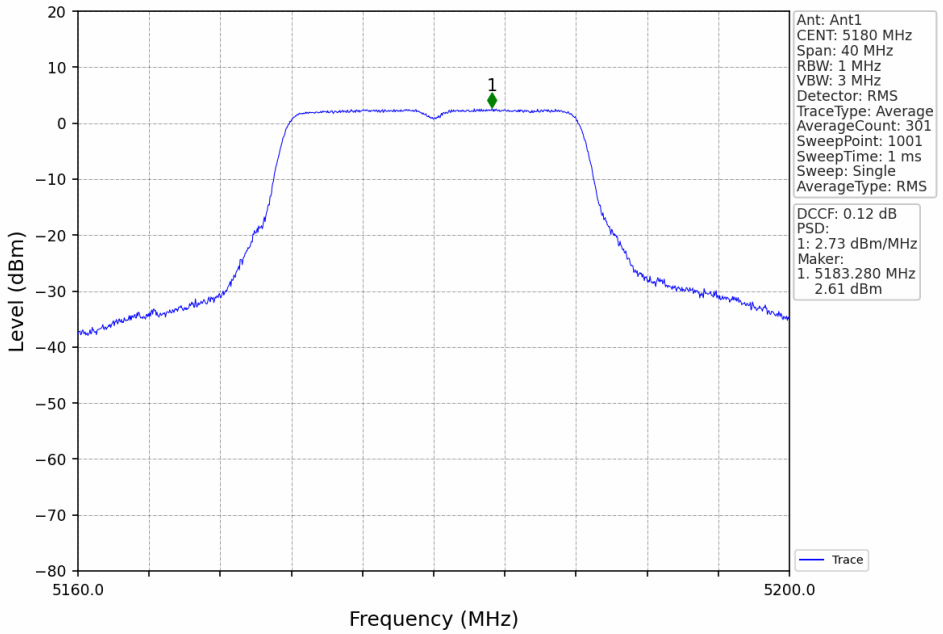
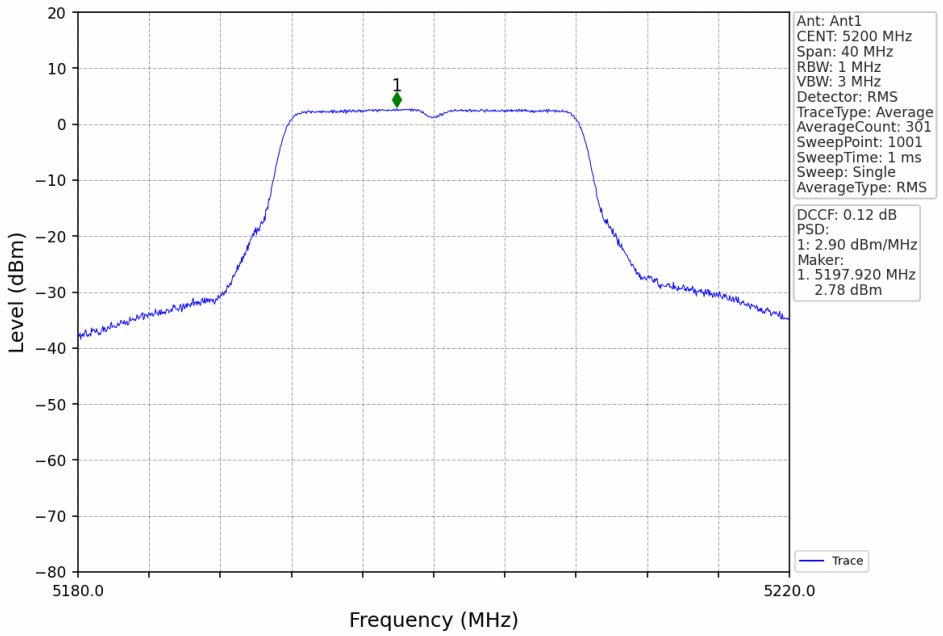
4.1.2 Test Graph

802.11a_LCH_5180MHz_Ant1_NTNV



802.11a_MCH_5200MHz_Ant1_NTNV



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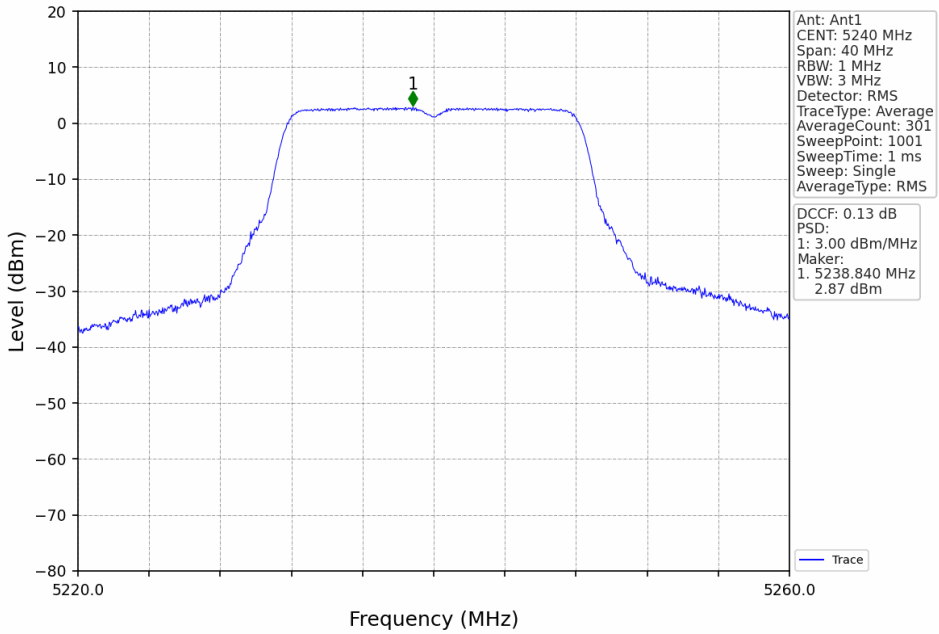
802.11a_HCH_5240MHz_Ant1_NTNV



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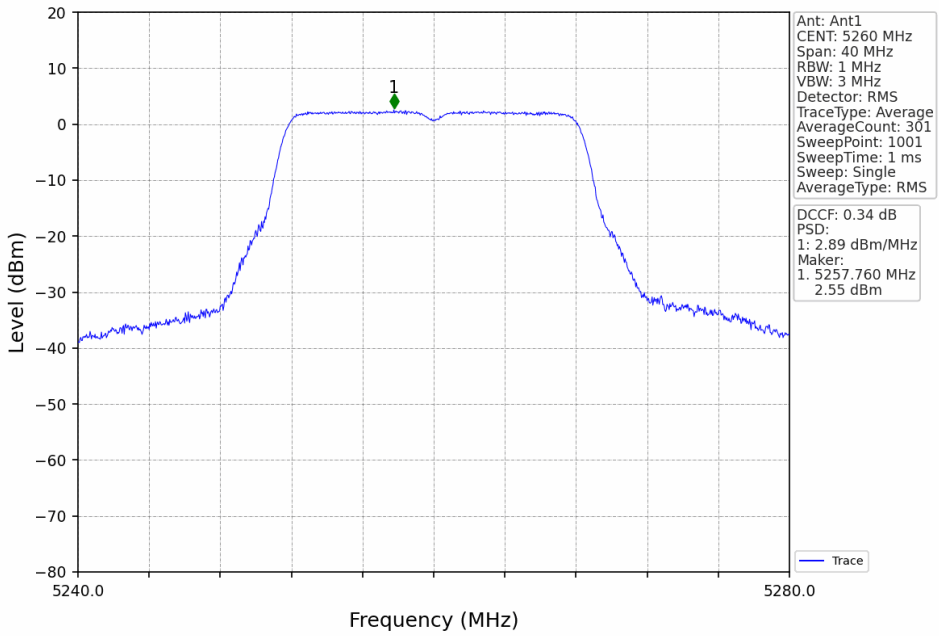

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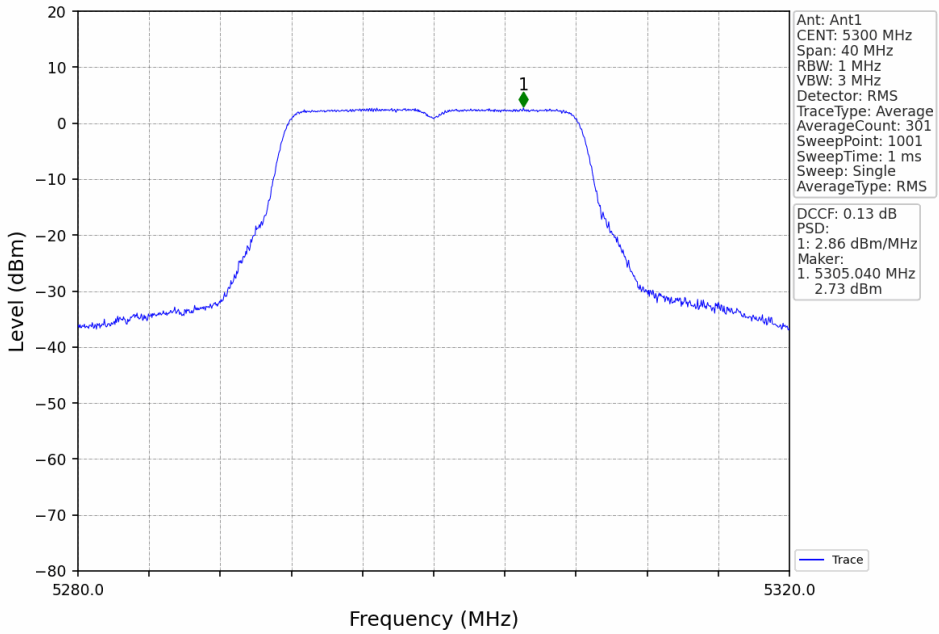
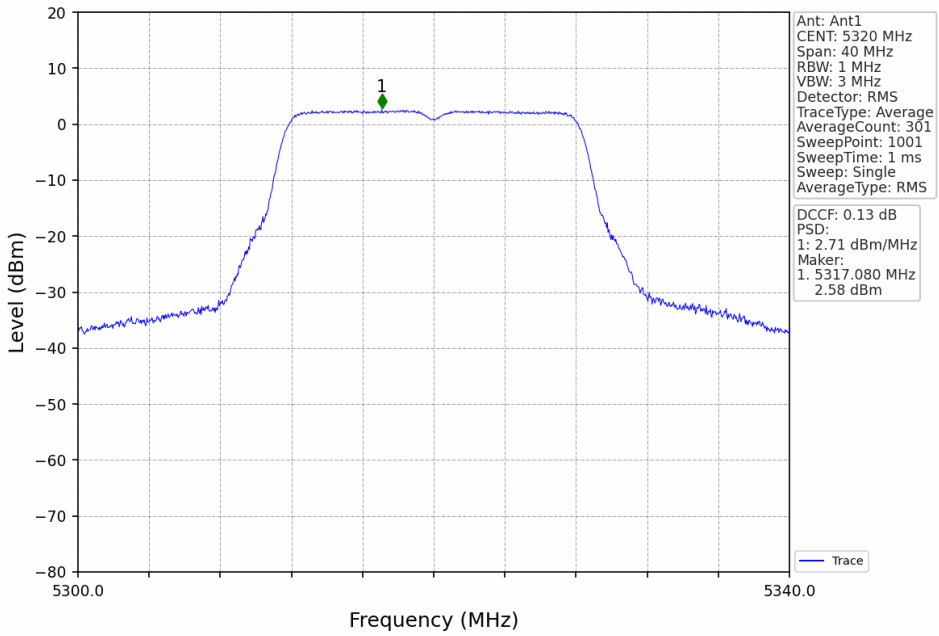
802.11a_MCH_5300MHz_Ant1_NTNV



802.11a_HCH_5320MHz_Ant1_NTNV



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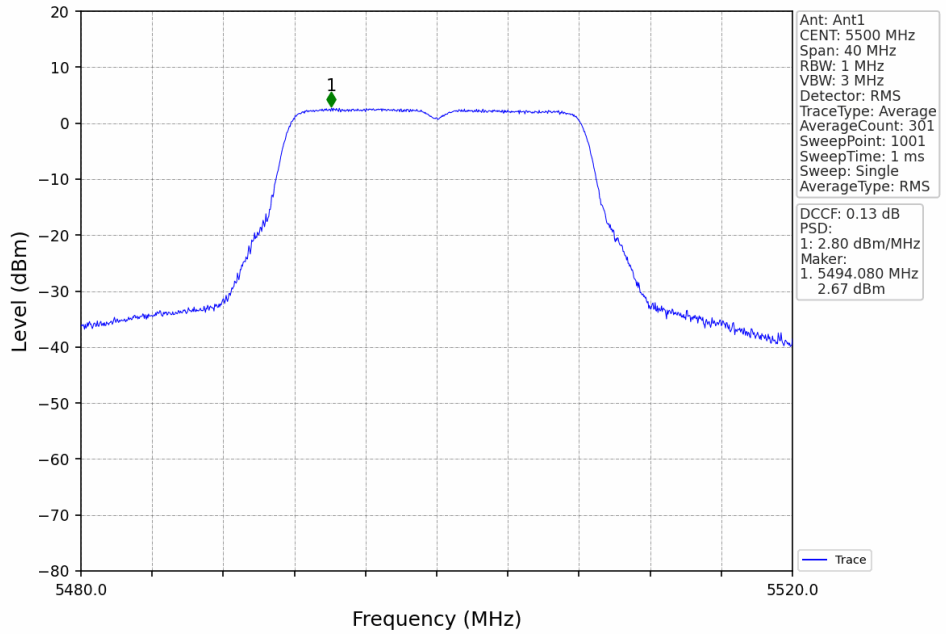
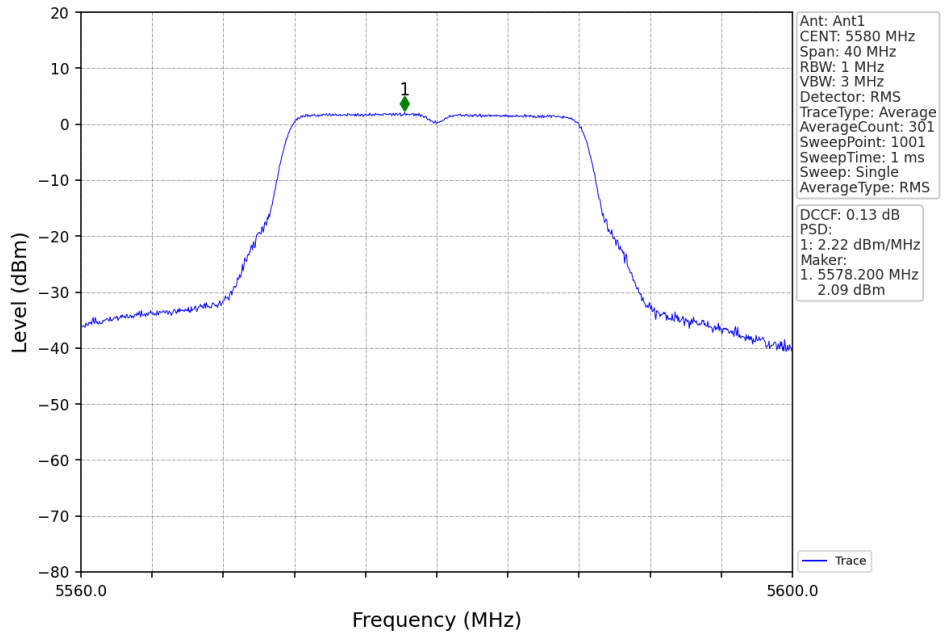
802.11a_LCH_5500MHz_Ant1_NTNV



802.11a_MCH_5580MHz_Ant1_NTNV



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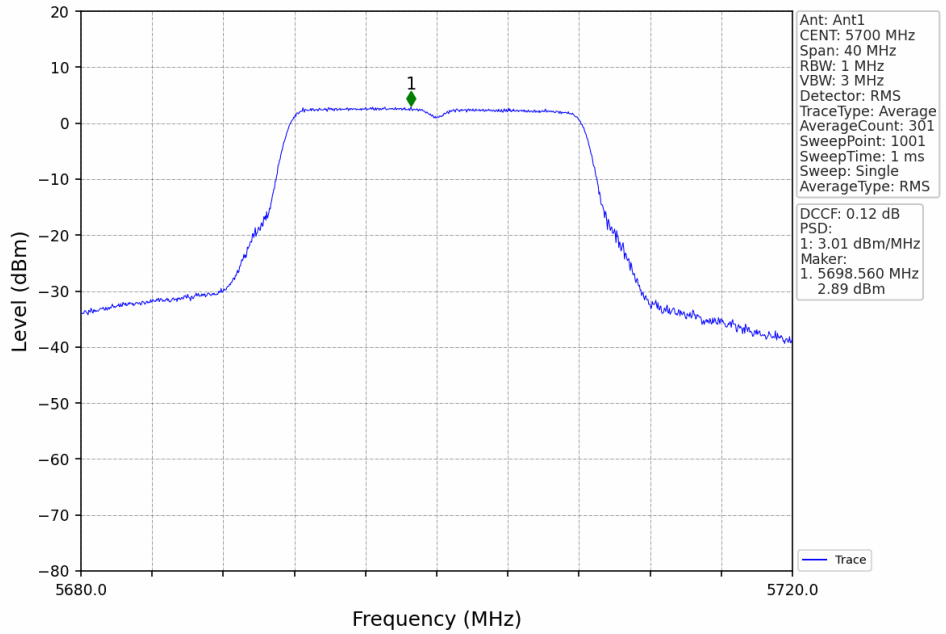
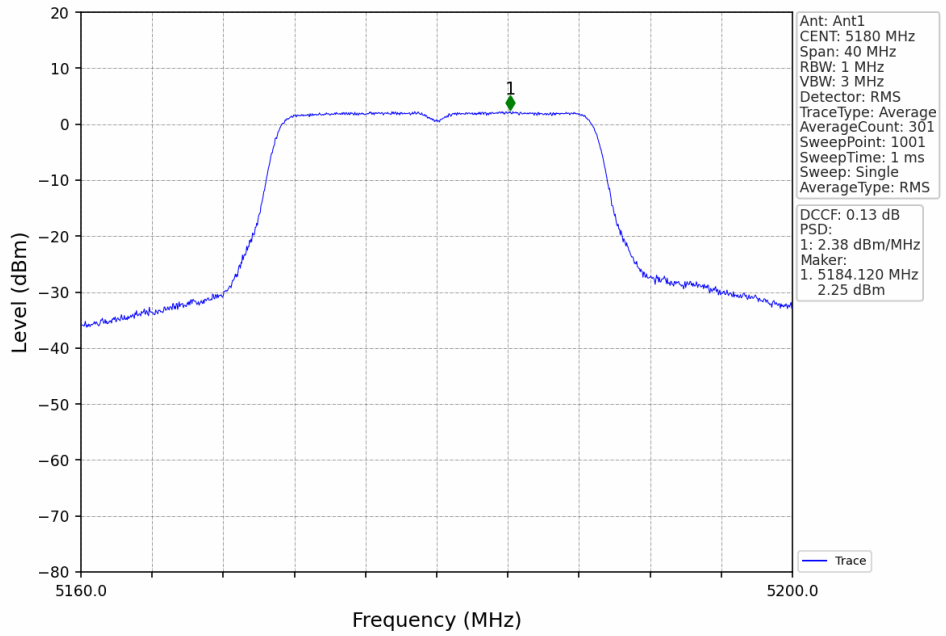
802.11a_HCH_5700MHz_Ant1_NTNV



802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



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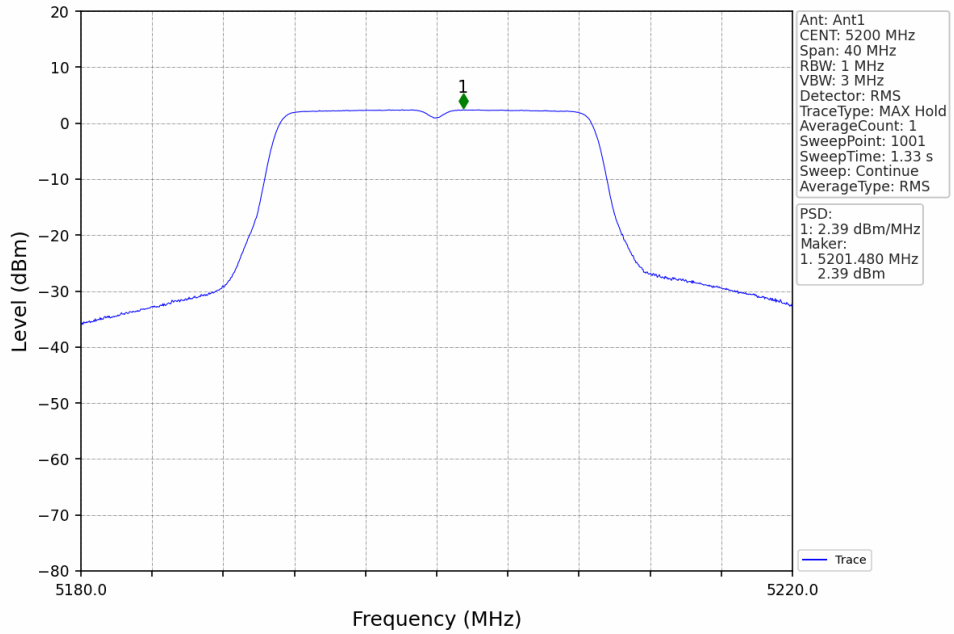
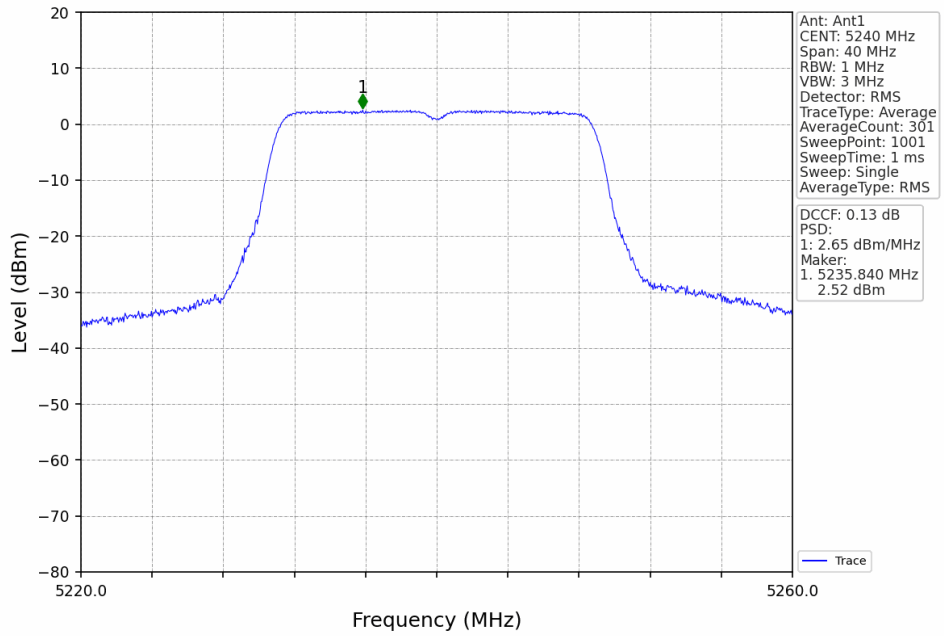
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



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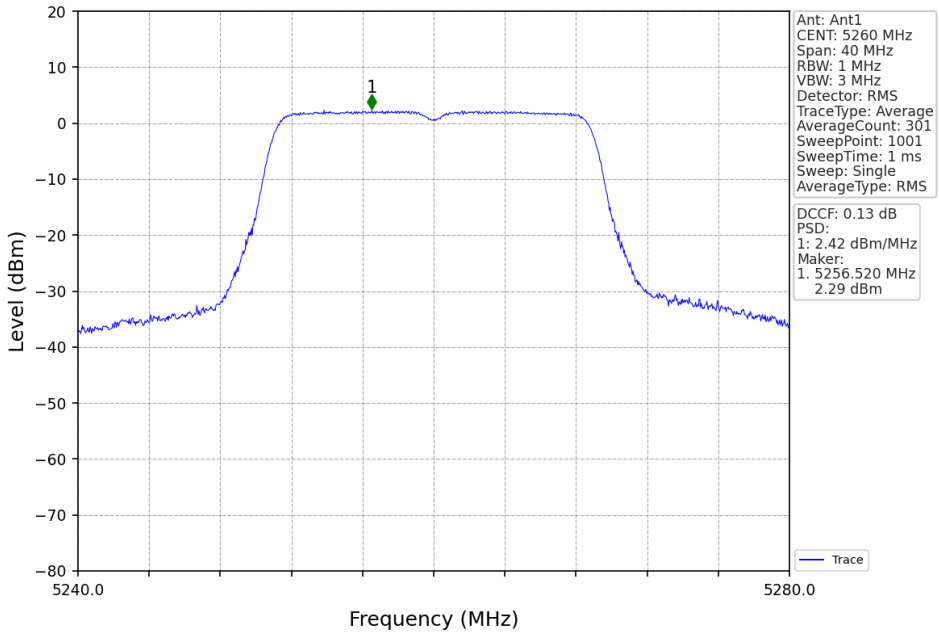
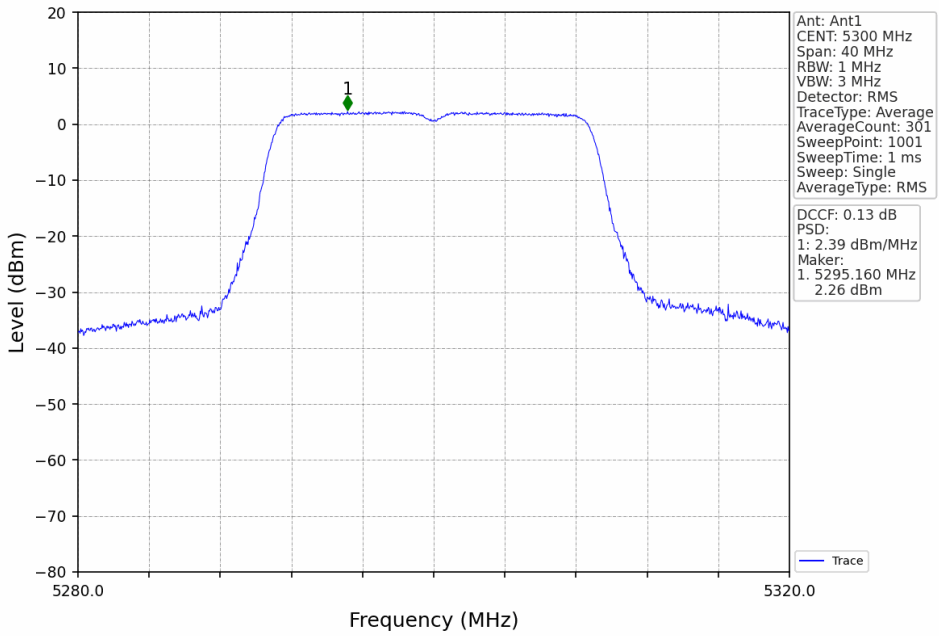
802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



802.11n(HT20)_MCH_5300MHz_Ant1_NTNV



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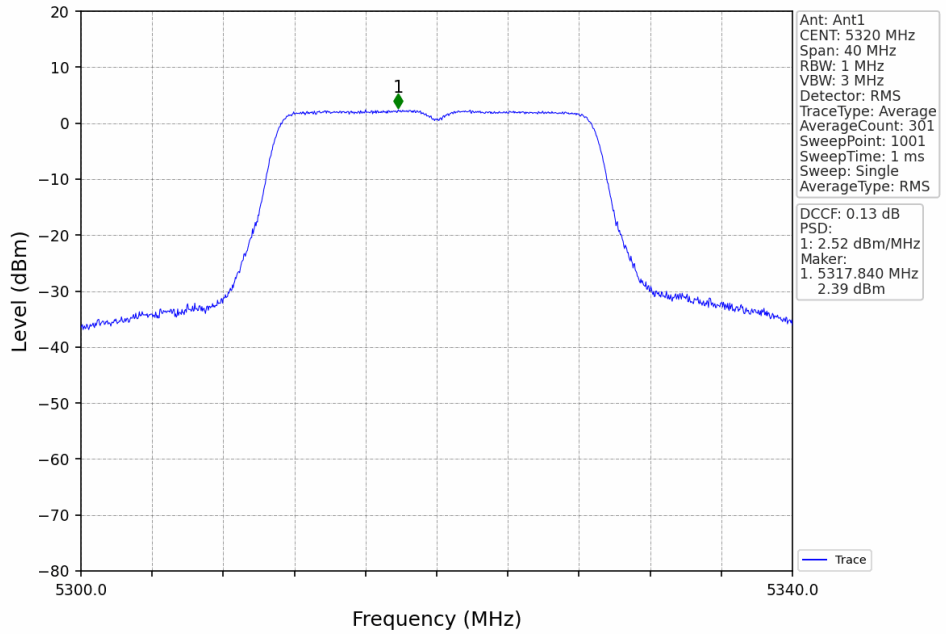
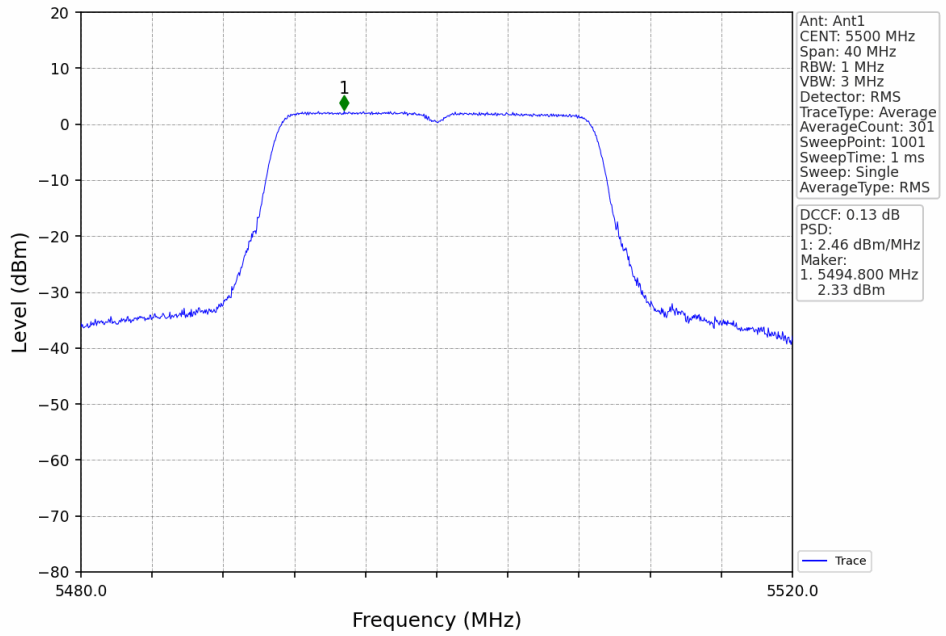
802.11n(HT20)_HCH_5320MHz_Ant1_NTNV



802.11n(HT20)_LCH_5500MHz_Ant1_NTNV



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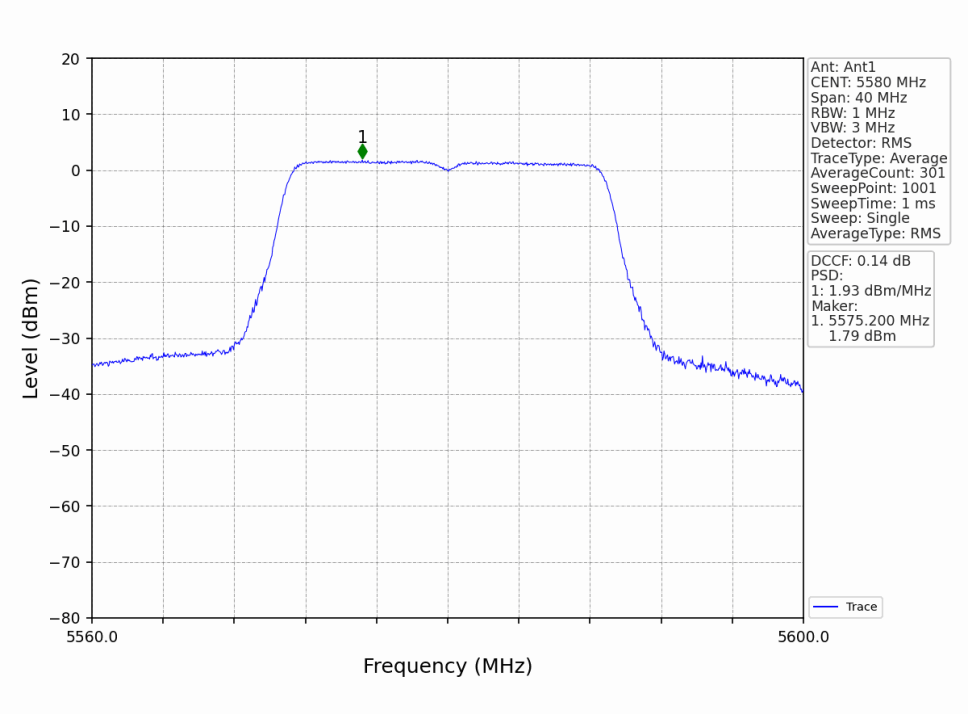
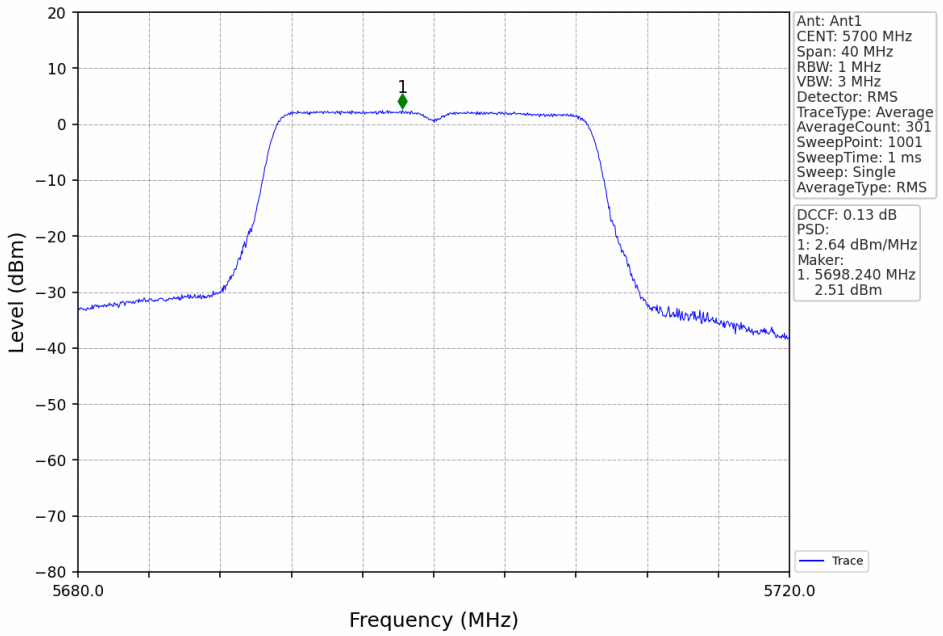
802.11n(HT20)_MCH_5580MHz_Ant1_NTNV



802.11n(HT20)_HCH_5700MHz_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	0.39	<=30	Pass
		5785	0.12	<=30	Pass
		5825	-0.19	<=30	Pass
802.11n (HT20)	SISO	5745	0.27	<=30	Pass
		5785	-0.12	<=30	Pass
		5825	-0.34	<=30	Pass

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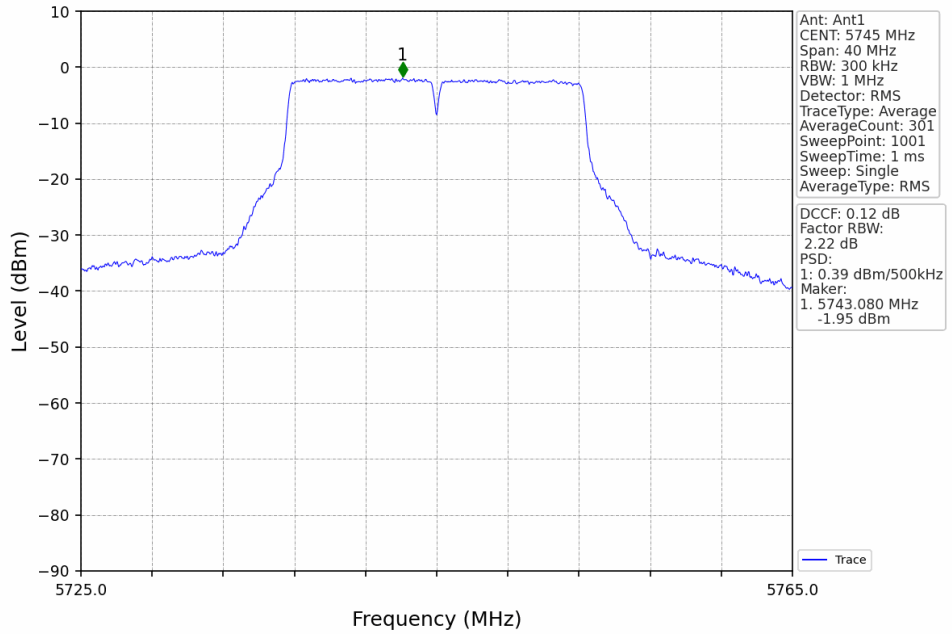
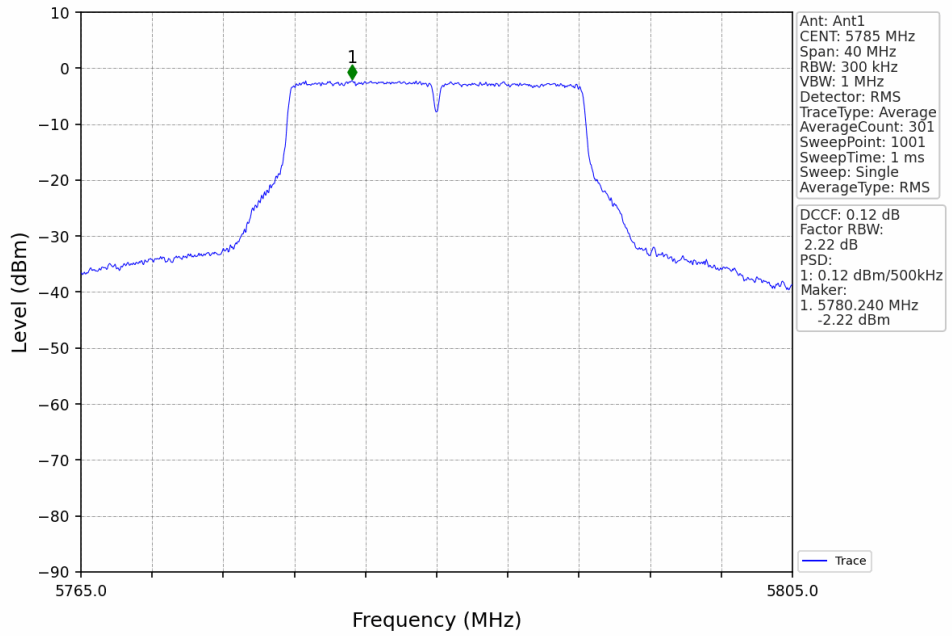
4.2.2 Test Graph

802.11a_LCH_5745MHz_Ant1_NTNV



802.11a_MCH_5785MHz_Ant1_NTNV



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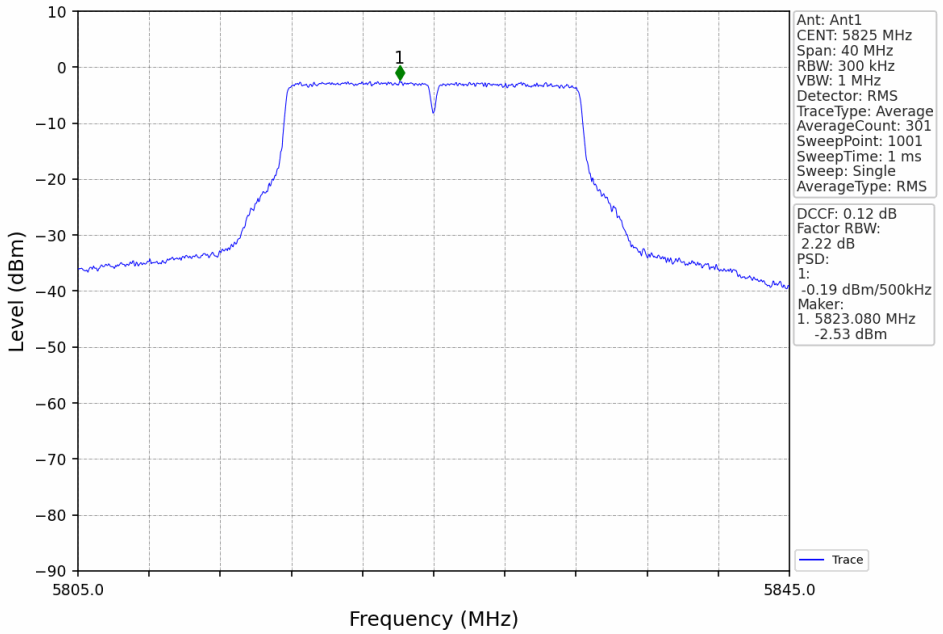
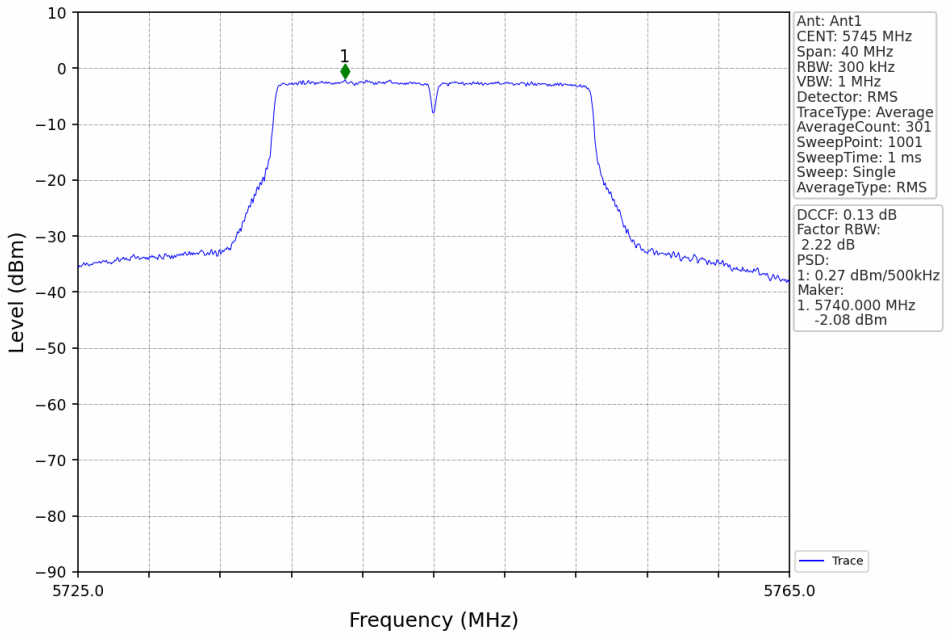
802.11a_HCH_5825MHz_Ant1_NTNV



802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



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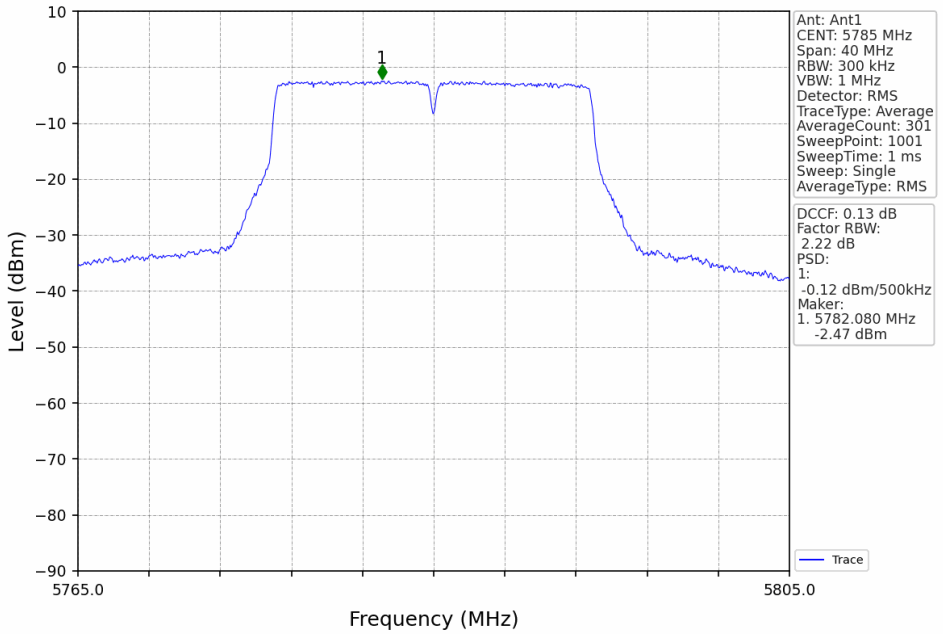
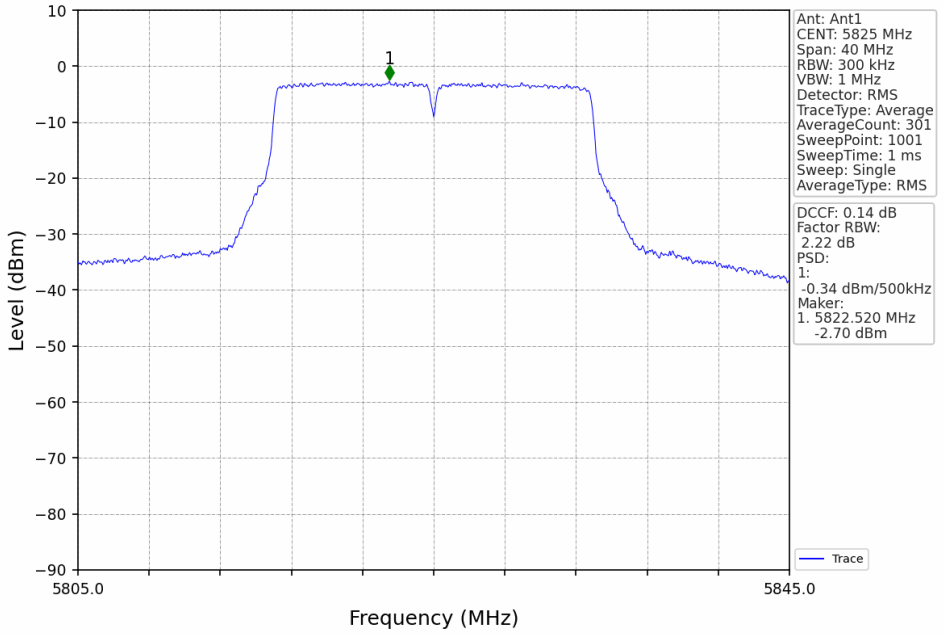
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



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5. Frequency Stability

5.1 Ant1

5.1.1 Test Result

Ant1, 802.11a, SISO

Frequency (MHz)	Temperature (°C)	Voltage (VDC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
5180	20	3.27	5179.960	5150 to 5250	Pass
		3.85	5180.000	5150 to 5250	Pass
		4.42	5179.980	5150 to 5250	Pass
	5	3.85	5179.920	5150 to 5250	Pass
	10	3.85	5180.040	5150 to 5250	Pass
	30	3.85	5179.980	5150 to 5250	Pass
5200	20	3.27	5199.980	5150 to 5250	Pass
		3.85	5199.940	5150 to 5250	Pass
		4.42	5199.940	5150 to 5250	Pass
	5	3.85	5200.000	5150 to 5250	Pass
	10	3.85	5199.920	5150 to 5250	Pass
	30	3.85	5199.960	5150 to 5250	Pass
5240	20	3.27	5239.980	5150 to 5250	Pass
		3.85	5240.020	5150 to 5250	Pass
		4.42	5239.960	5150 to 5250	Pass
	5	3.85	5239.960	5150 to 5250	Pass
	10	3.85	5239.920	5150 to 5250	Pass
	30	3.85	5239.940	5150 to 5250	Pass
5260	20	3.27	5259.960	5250 to 5350	Pass
		3.85	5259.980	5250 to 5350	Pass
		4.42	5260.000	5250 to 5350	Pass
	5	3.85	5259.960	5250 to 5350	Pass
	10	3.85	5259.920	5250 to 5350	Pass
	30	3.85	5259.940	5250 to 5350	Pass
5300	20	3.27	5299.920	5250 to 5350	Pass
		3.85	5299.940	5250 to 5350	Pass
		4.42	5299.920	5250 to 5350	Pass
	5	3.85	5299.980	5250 to 5350	Pass
	10	3.85	5300.000	5250 to 5350	Pass
	30	3.85	5299.940	5250 to 5350	Pass

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5320	20	3.27	5319.980	5250 to 5350	Pass
		3.85	5319.980	5250 to 5350	Pass
		4.42	5319.980	5250 to 5350	Pass
	5	3.85	5319.960	5250 to 5350	Pass
	10	3.85	5319.900	5250 to 5350	Pass
	30	3.85	5320.000	5250 to 5350	Pass
5500	20	3.27	5499.960	5470 to 5725	Pass
		3.85	5499.940	5470 to 5725	Pass
		4.42	5499.960	5470 to 5725	Pass
	5	3.85	5499.940	5470 to 5725	Pass
	10	3.85	5499.960	5470 to 5725	Pass
	30	3.85	5499.940	5470 to 5725	Pass
5580	20	3.27	5579.940	5470 to 5725	Pass
		3.85	5579.940	5470 to 5725	Pass
		4.42	5579.960	5470 to 5725	Pass
	5	3.85	5579.940	5470 to 5725	Pass
	10	3.85	5579.920	5470 to 5725	Pass
	30	3.85	5579.960	5470 to 5725	Pass
5700	20	3.27	5699.960	5470 to 5725	Pass
		3.85	5699.960	5470 to 5725	Pass
		4.42	5699.960	5470 to 5725	Pass
	5	3.85	5699.960	5470 to 5725	Pass
	10	3.85	5699.960	5470 to 5725	Pass
	30	3.85	5699.960	5470 to 5725	Pass
5745	20	3.27	5744.980	5725 to 5850	Pass
		3.85	5745.000	5725 to 5850	Pass
		4.42	5744.960	5725 to 5850	Pass
	5	3.85	5745.020	5725 to 5850	Pass
	10	3.85	5744.980	5725 to 5850	Pass
	30	3.85	5744.960	5725 to 5850	Pass
5785	20	3.27	5784.980	5725 to 5850	Pass
		3.85	5784.940	5725 to 5850	Pass
		4.42	5784.980	5725 to 5850	Pass
	5	3.85	5784.940	5725 to 5850	Pass
	10	3.85	5784.960	5725 to 5850	Pass
	30	3.85	5784.960	5725 to 5850	Pass
5825	20	3.27	5824.940	5725 to 5850	Pass
		3.85	5824.980	5725 to 5850	Pass
		4.42	5824.960	5725 to 5850	Pass
	5	3.85	5824.960	5725 to 5850	Pass

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	10	3.85	5824.940	5725 to 5850	Pass
	30	3.85	5824.980	5725 to 5850	Pass

5180	20	3.27	5180.020	5150 to 5250	Pass
		3.85	5179.960	5150 to 5250	Pass
		4.42	5180.040	5150 to 5250	Pass
	5	3.85	5180.040	5150 to 5250	Pass
	10	3.85	5180.060	5150 to 5250	Pass
	30	3.85	5180.020	5150 to 5250	Pass
5200	20	3.27	5199.980	5150 to 5250	Pass
		3.85	5200.080	5150 to 5250	Pass
		4.42	5199.960	5150 to 5250	Pass
	5	3.85	5200.000	5150 to 5250	Pass
	10	3.85	5200.000	5150 to 5250	Pass
	30	3.85	5200.060	5150 to 5250	Pass
5240	20	3.27	5240.020	5150 to 5250	Pass
		3.85	5239.960	5150 to 5250	Pass
		4.42	5240.000	5150 to 5250	Pass
	5	3.85	5239.980	5150 to 5250	Pass
	10	3.85	5239.960	5150 to 5250	Pass
	30	3.85	5240.000	5150 to 5250	Pass
5260	20	3.27	5260.040	5250 to 5350	Pass
		3.85	5259.960	5250 to 5350	Pass
		4.42	5260.040	5250 to 5350	Pass
	5	3.85	5259.960	5250 to 5350	Pass
	10	3.85	5259.960	5250 to 5350	Pass
	30	3.85	5259.940	5250 to 5350	Pass
5300	20	3.27	5299.960	5250 to 5350	Pass
		3.85	5300.040	5250 to 5350	Pass
		4.42	5299.940	5250 to 5350	Pass
	5	3.85	5299.960	5250 to 5350	Pass
	10	3.85	5299.960	5250 to 5350	Pass
	30	3.85	5299.980	5250 to 5350	Pass
5320	20	3.27	5319.980	5250 to 5350	Pass
		3.85	5320.000	5250 to 5350	Pass
		4.42	5320.000	5250 to 5350	Pass
	5	3.85	5320.040	5250 to 5350	Pass
	10	3.85	5319.960	5250 to 5350	Pass
	30	3.85	5320.000	5250 to 5350	Pass
5500	20	3.27	5499.980	5470 to 5725	Pass

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		3.85	5499.980	5470 to 5725	Pass
		4.42	5499.960	5470 to 5725	Pass
	5	3.85	5499.980	5470 to 5725	Pass
	10	3.85	5499.980	5470 to 5725	Pass
	30	3.85	5499.960	5470 to 5725	Pass
5580	20	3.27	5579.980	5470 to 5725	Pass
		3.85	5579.940	5470 to 5725	Pass
		4.42	5580.020	5470 to 5725	Pass
	5	3.85	5579.960	5470 to 5725	Pass
	10	3.85	5579.940	5470 to 5725	Pass
	30	3.85	5579.980	5470 to 5725	Pass
5700	20	3.27	5699.980	5470 to 5725	Pass
		3.85	5699.960	5470 to 5725	Pass
		4.42	5700.040	5470 to 5725	Pass
	5	3.85	5699.920	5470 to 5725	Pass
	10	3.85	5699.980	5470 to 5725	Pass
	30	3.85	5699.980	5470 to 5725	Pass
5745	20	3.27	5745.040	5725 to 5850	Pass
		3.85	5744.960	5725 to 5850	Pass
		4.42	5744.940	5725 to 5850	Pass
	5	3.85	5744.920	5725 to 5850	Pass
	10	3.85	5744.960	5725 to 5850	Pass
	30	3.85	5744.900	5725 to 5850	Pass
5785	20	3.27	5784.840	5725 to 5850	Pass
		3.85	5784.940	5725 to 5850	Pass
		4.42	5784.940	5725 to 5850	Pass
	5	3.85	5785.060	5725 to 5850	Pass
	10	3.85	5784.980	5725 to 5850	Pass
	30	3.85	5784.960	5725 to 5850	Pass
5825	20	3.27	5825.100	5725 to 5850	Pass
		3.85	5824.960	5725 to 5850	Pass
		4.42	5824.960	5725 to 5850	Pass
	5	3.85	5824.980	5725 to 5850	Pass
	10	3.85	5824.980	5725 to 5850	Pass
	30	3.85	5824.980	5725 to 5850	Pass

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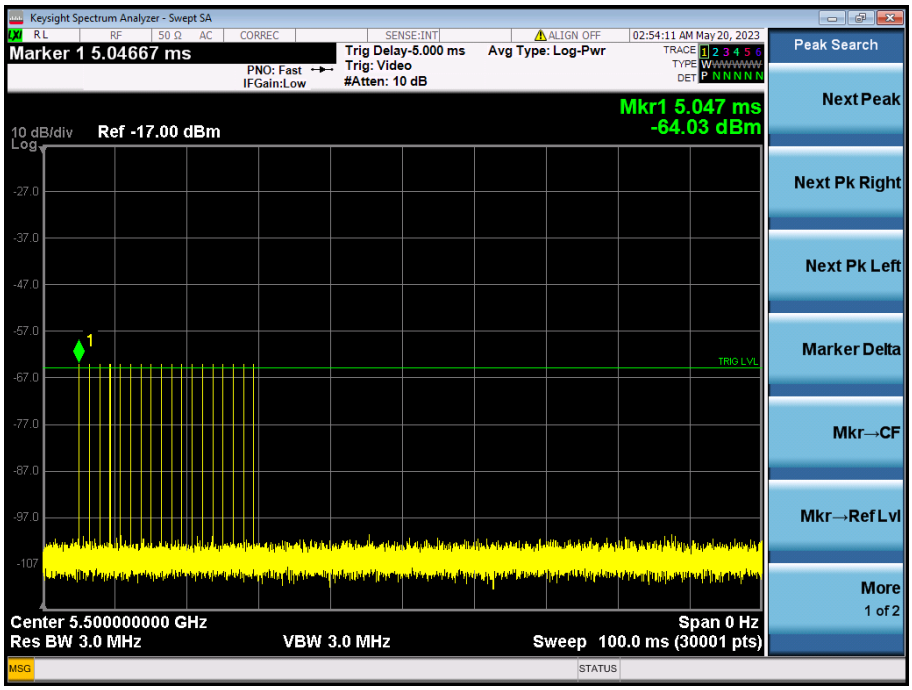
6. DFS(Non-occupancy period; Channel Move Time; Channel Closing Transmission Time)

Test plots as follows:

Radar Waveform Calibration Result

Radar Type 0



Test Data:

BW/Channel	Test Item	Test data	Limit	Results
20MHz/ 5320MHz	Non-occupancy period	Refer to test point	>30 min	pass
	Channel Move Time	0.3279s	＜10 s	Pass
	Channel Closing Transmission Time	0.0019s	＜60ms	Pass

BW/Channel	Test Item	Test data	Limit	Results
20MHz/ 5500MHz	Non-occupancy period	Refer to test point	>30 min	pass
	Channel Move Time	0.3834s	＜10 s	Pass
	Channel Closing Transmission Time	0.0019s	＜60ms	Pass

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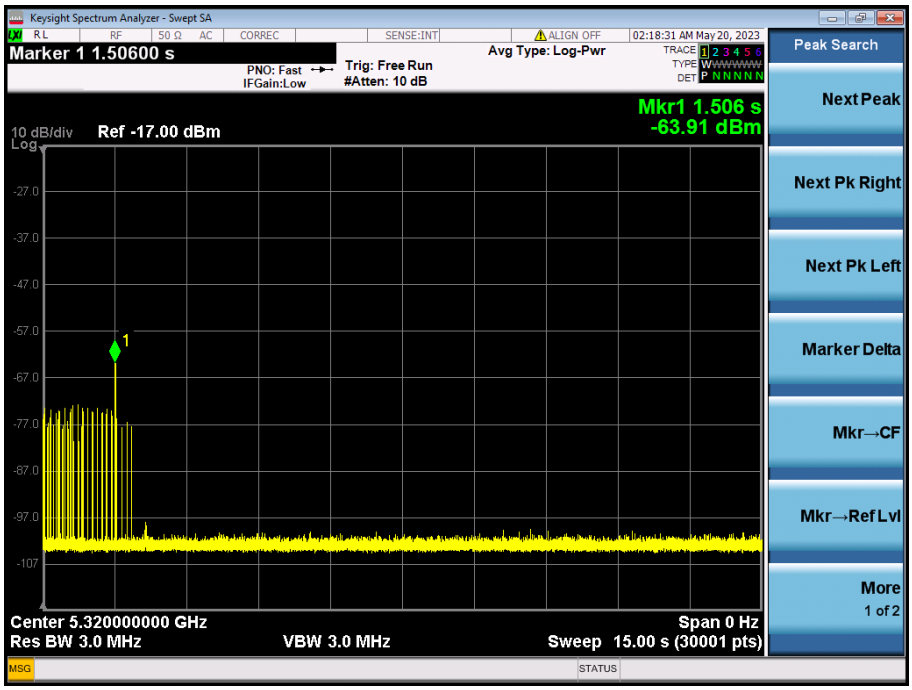
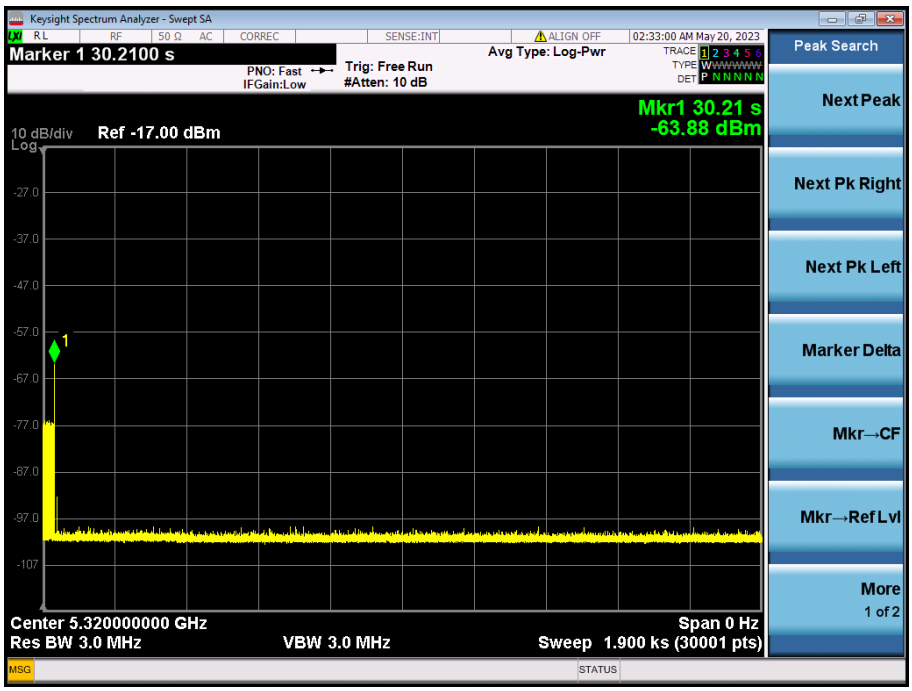
Test plots for 5320MHz:





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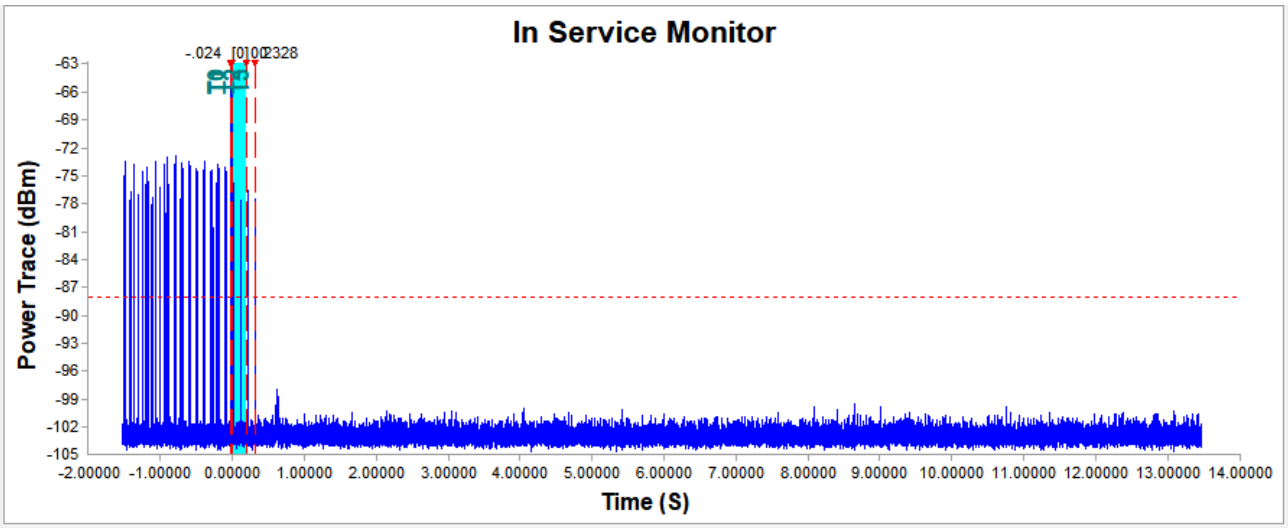


Time Index Info

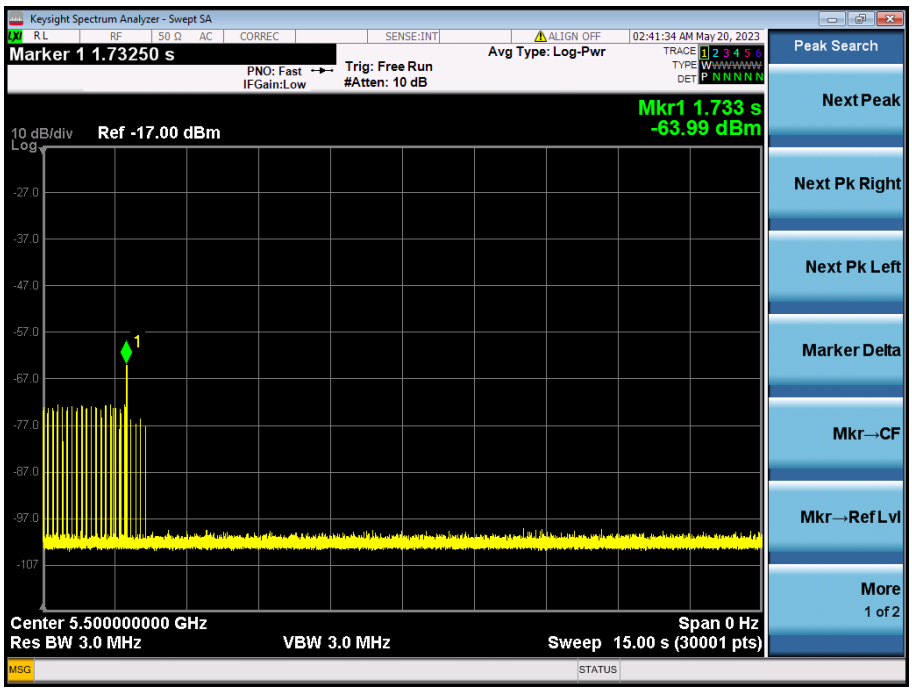
T0 : -0.0240 S (Radar Injection Start)
T1 : 0.0000 S (Radar Injection Stop)
T2 : 0.2000 S (200msec Interval)
T3 : 0.3280 S (Channel Move Time)

Time Per Bin:0.4999833

T2~T3 Bins Over Threshold:
= 4 Bins

Channel Move Time: 0.3279891 S
Channel Close Time: 0.0019999 S

Test plots for 5500MHz:



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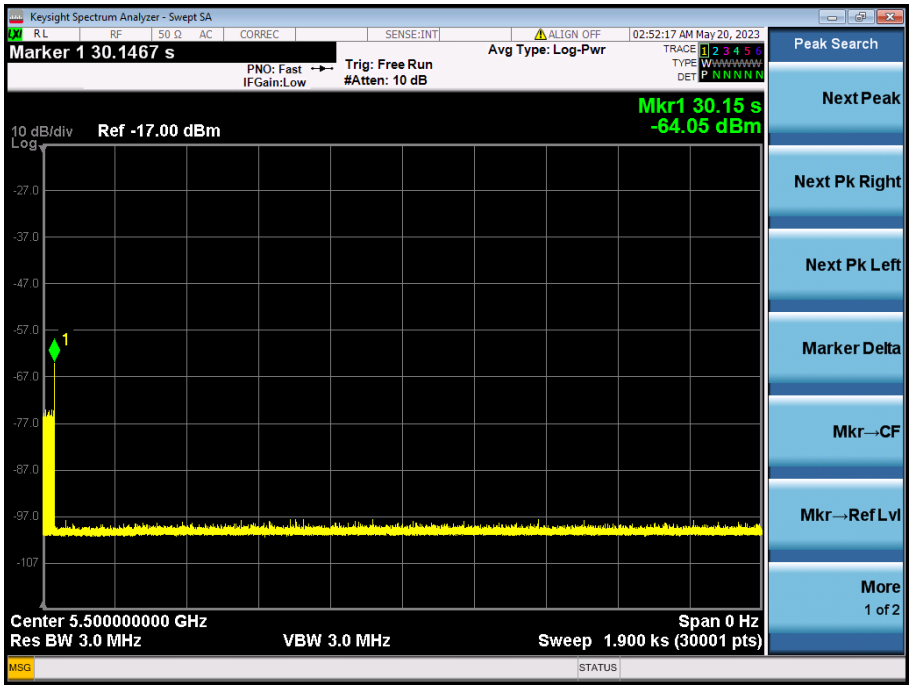

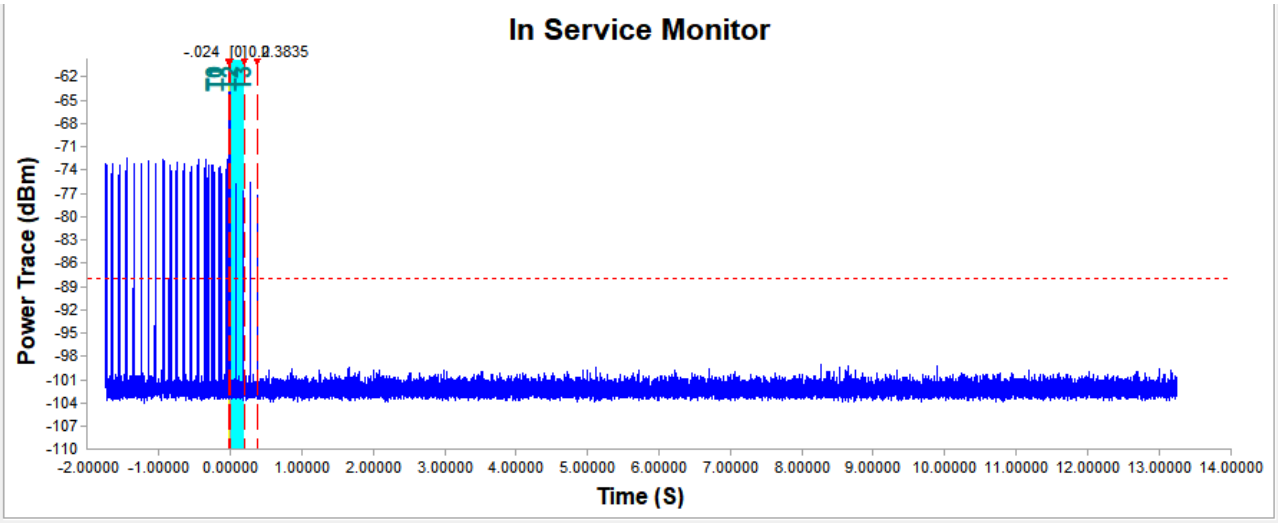

Time Index Info

T0 : -0.0240 S (Radar Injection Start)
T1 : 0.0000 S (Radar Injection Stop)
T2 : 0.2000 S (200msec Interval)
T3 : 0.3835 S (Channel Move Time)

Time Per Bin:0.4999833

T2~T3 Bins Over Threshold:
= 4 Bins

Channel Move Time: 0.3834872 S
Channel Close Time: 0.0019999 S

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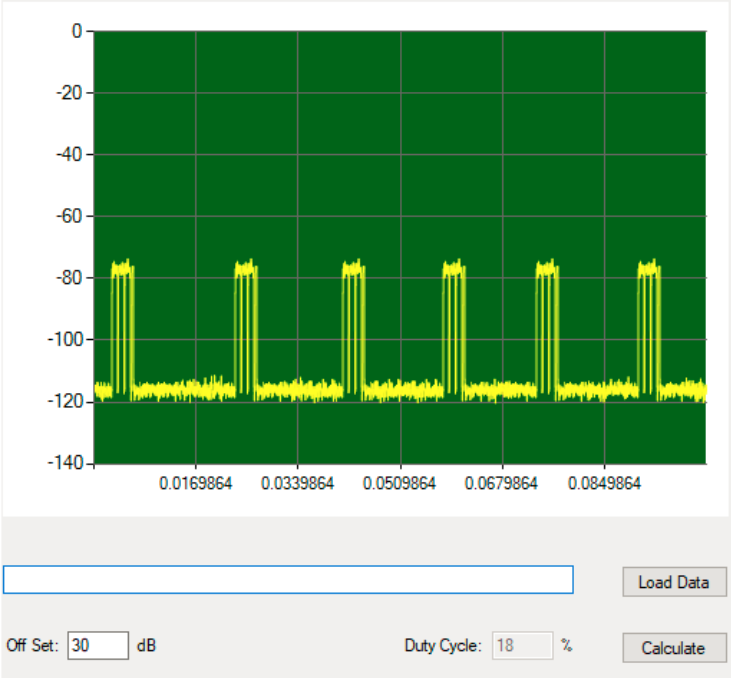

- End of the Report -

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