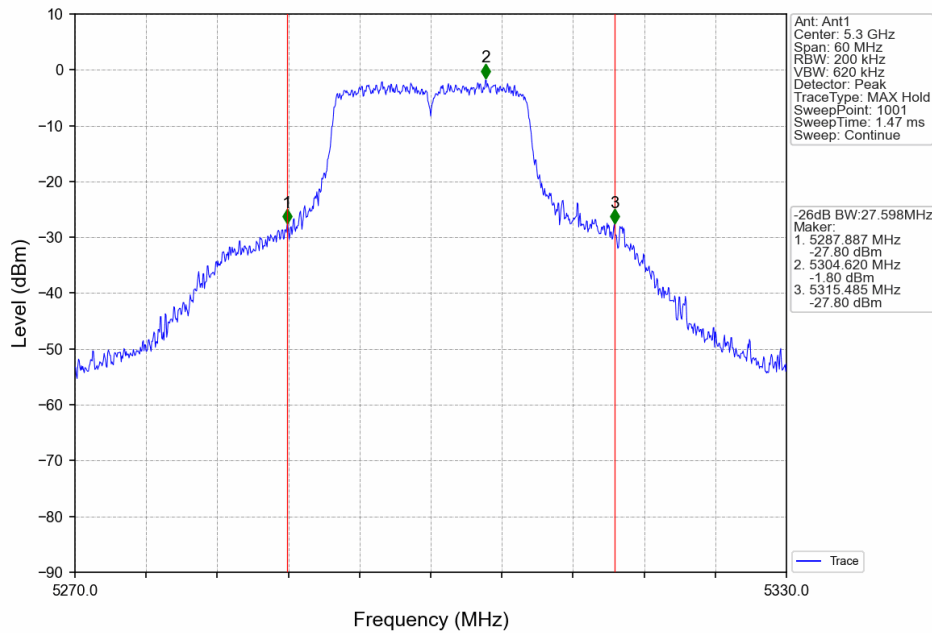
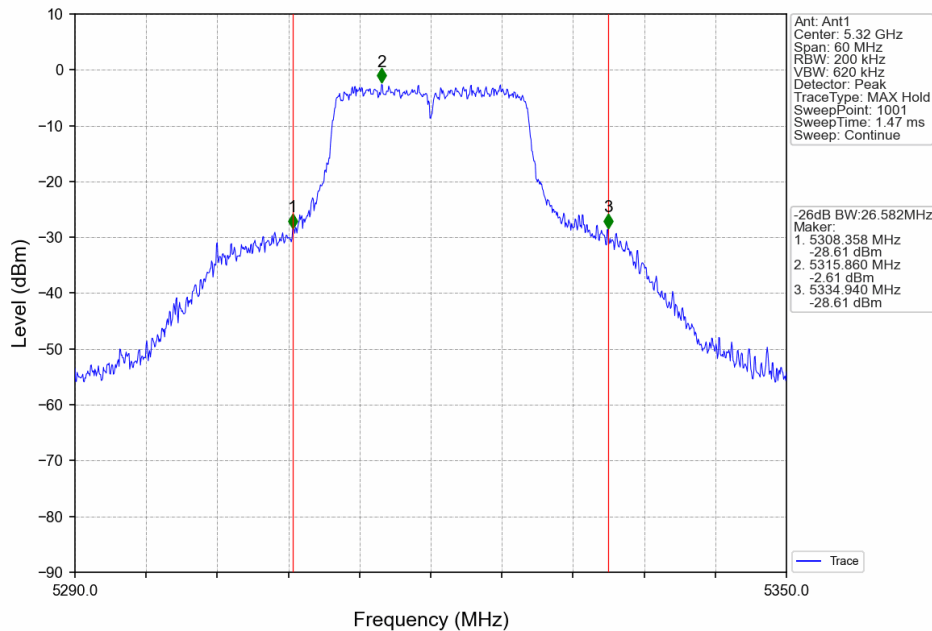


802.11a_MCH_5300MHz_Ant1_NTNV



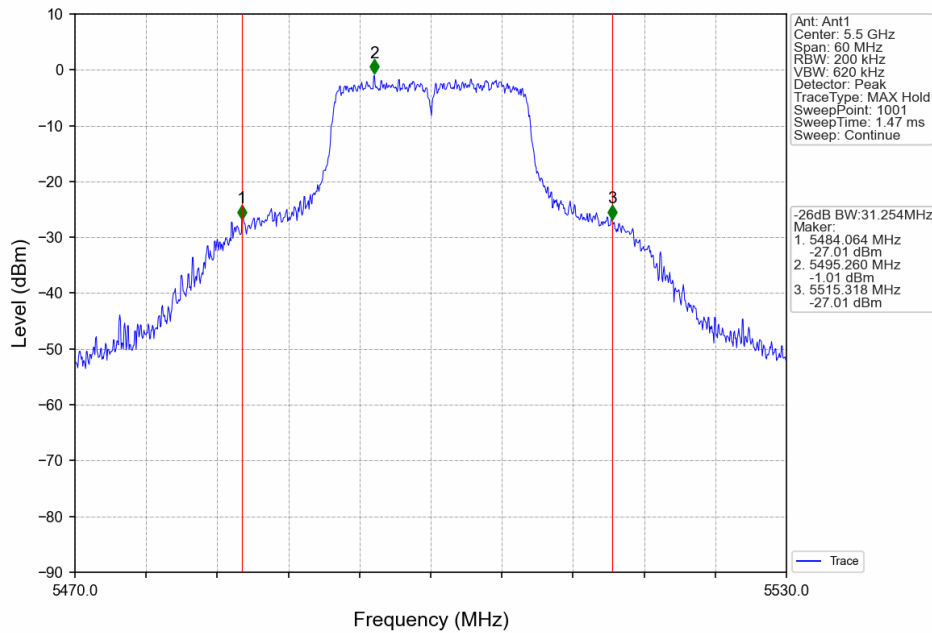
802.11a_HCH_5320MHz_Ant1_NTNV



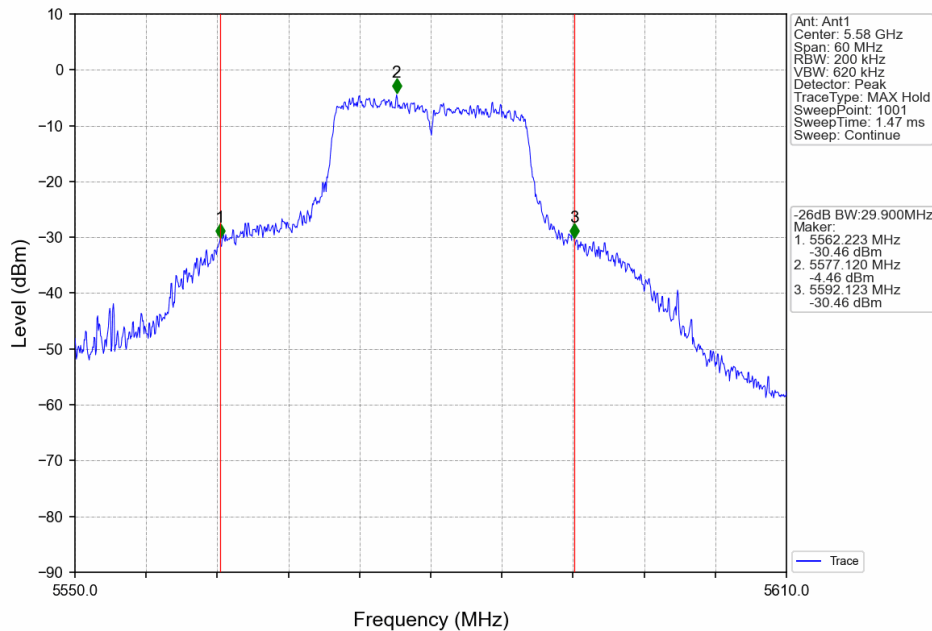
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802.11a_LCH_5500MHz_Ant1_NTNV



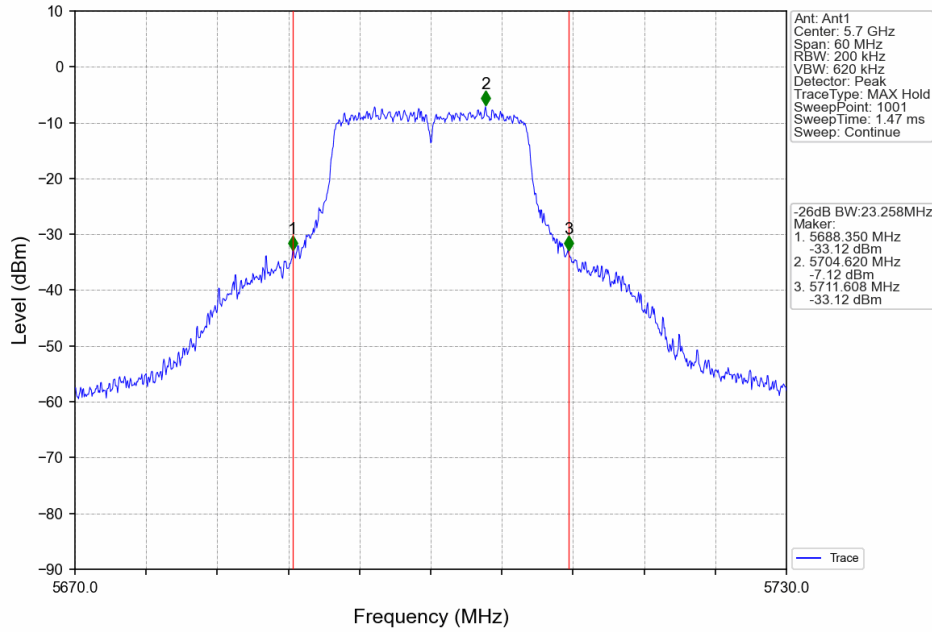
802.11a_MCH_5580MHz_Ant1_NTNV



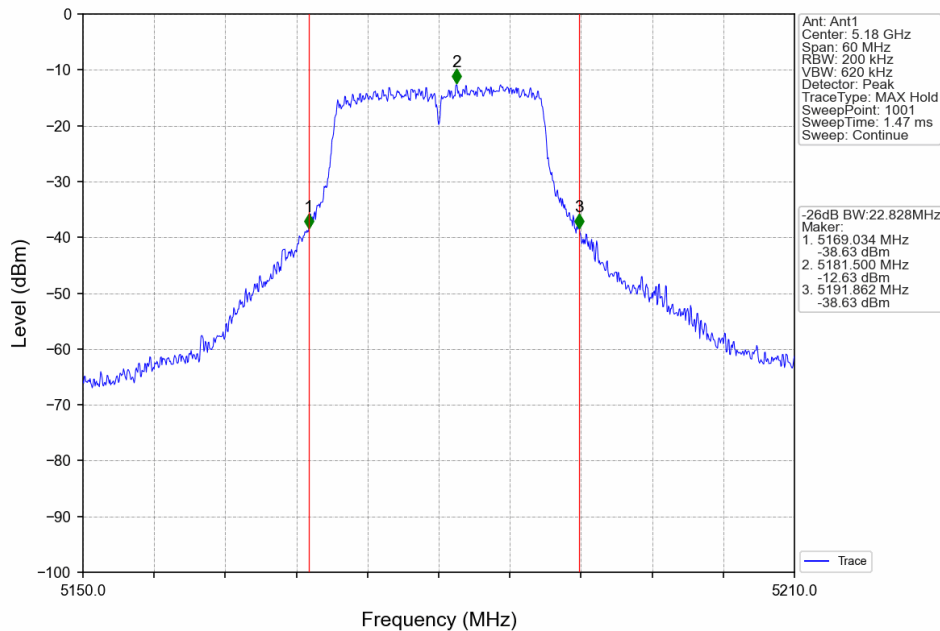
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802.11a_HCH_5700MHz_Ant1_NTNV

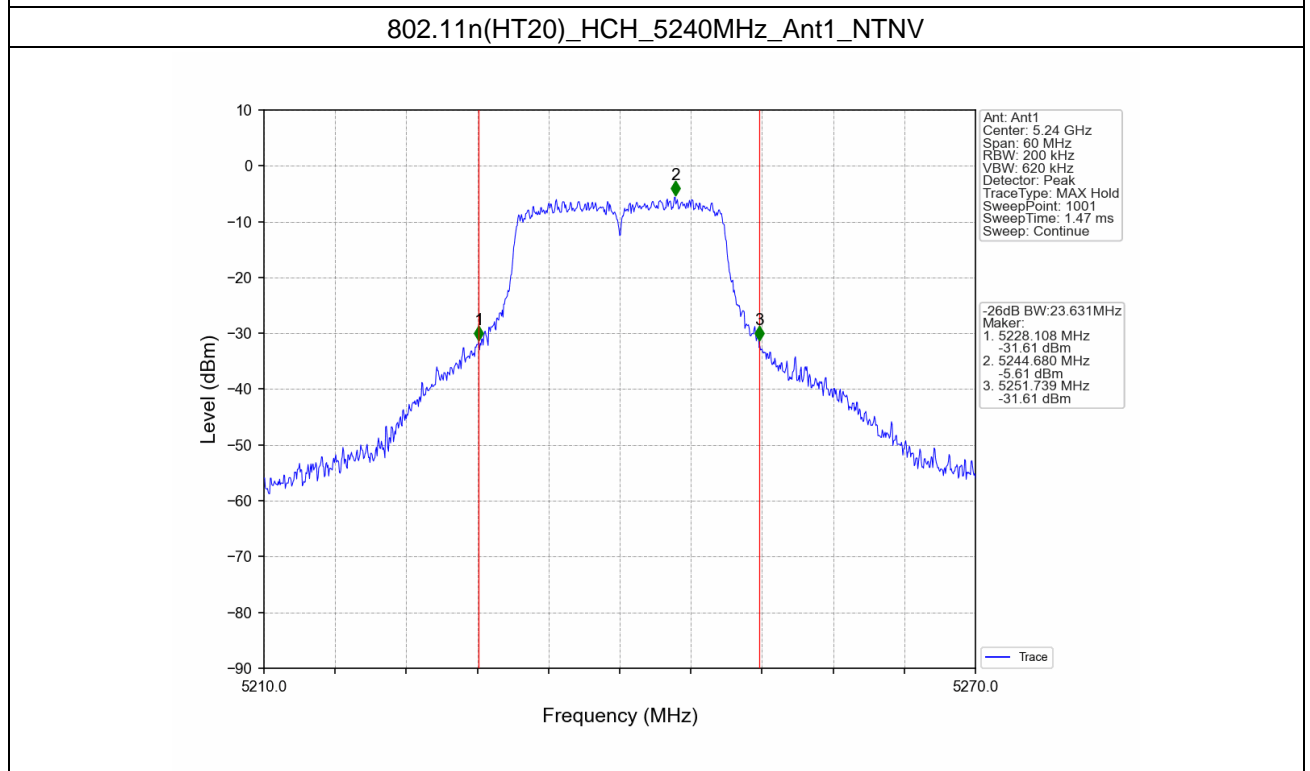
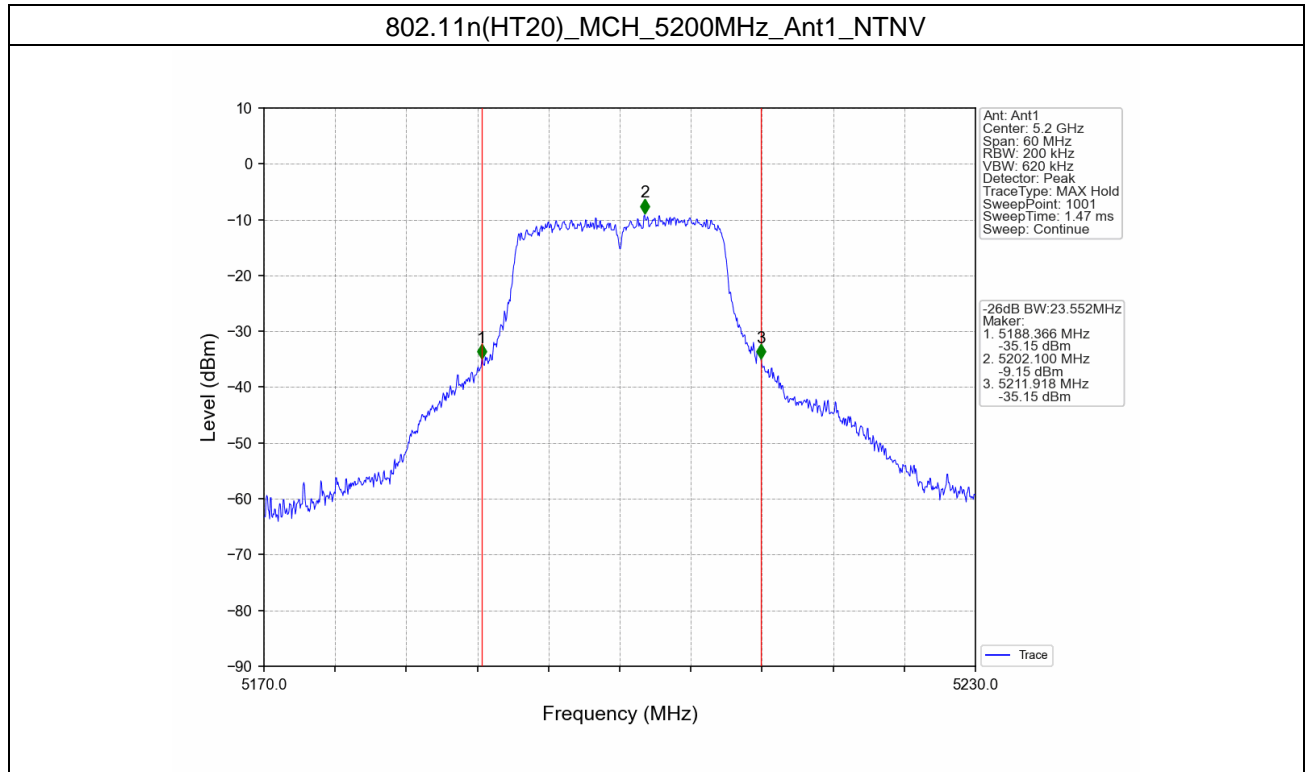


802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



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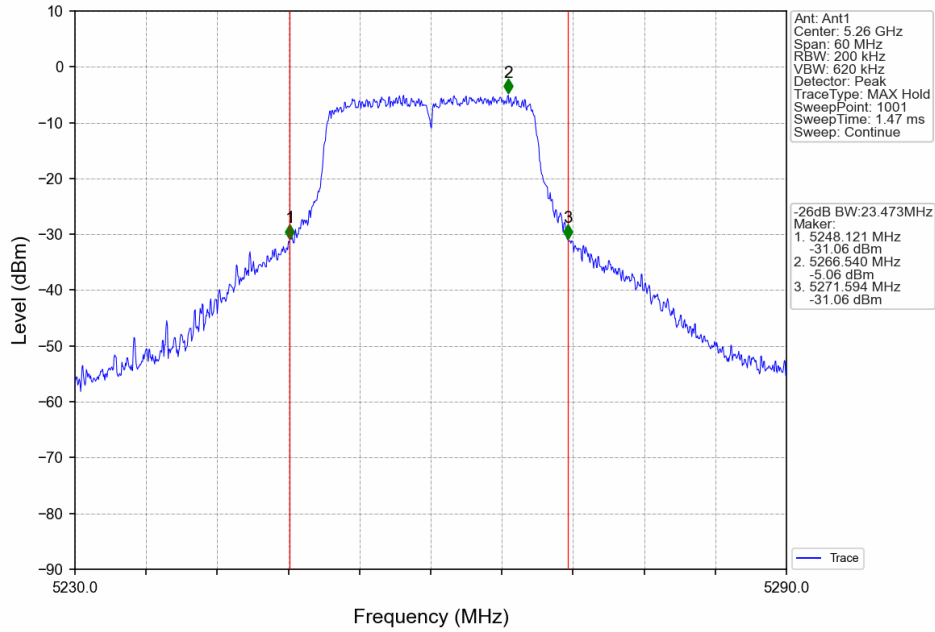
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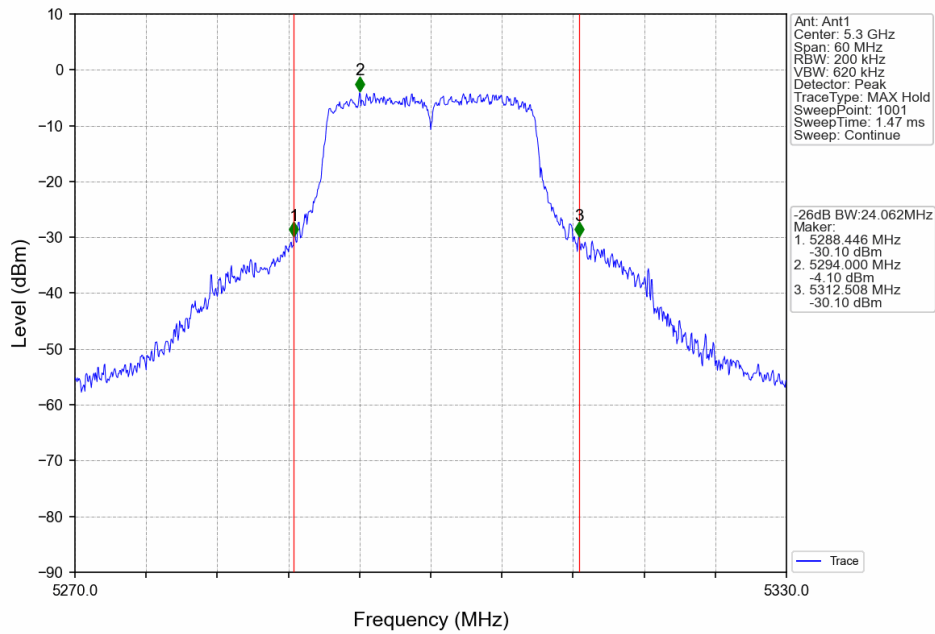
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802.11n(HT20)_LCH_5260MHz_Ant1_NTNV

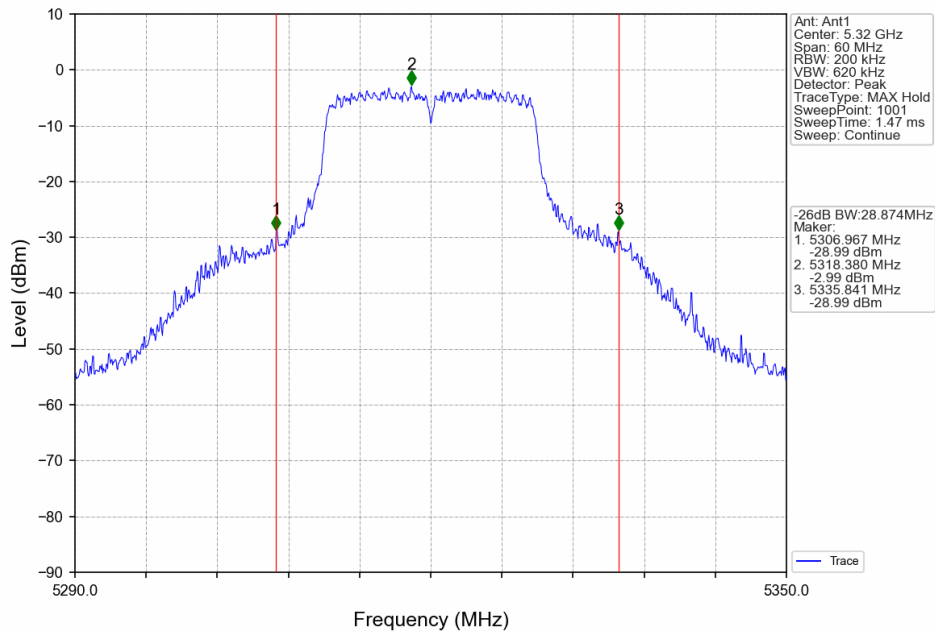


802.11n(HT20)_MCH_5300MHz_Ant1_NTNV

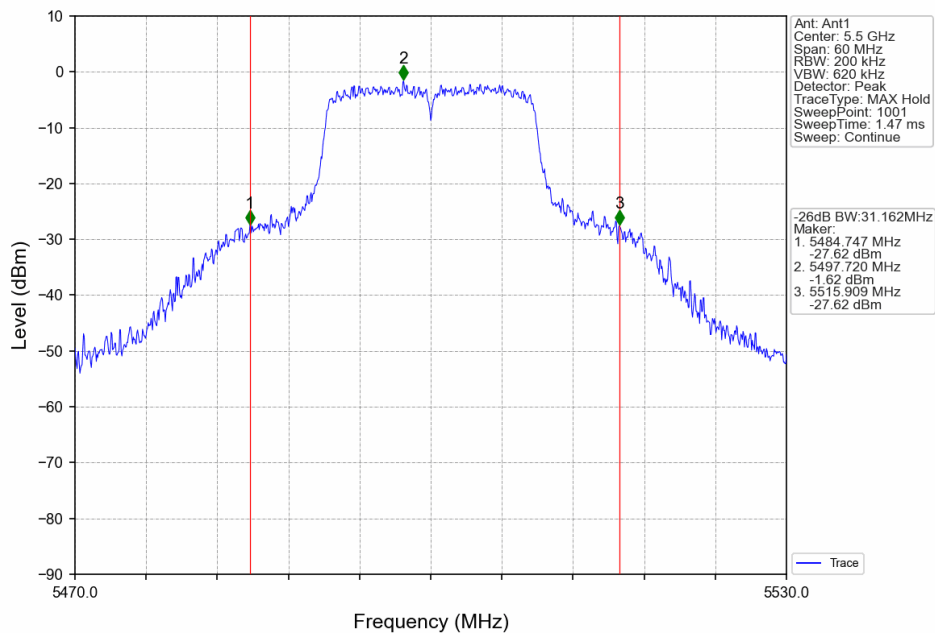


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802.11n(HT20)_HCH_5320MHz_Ant1_NTNV



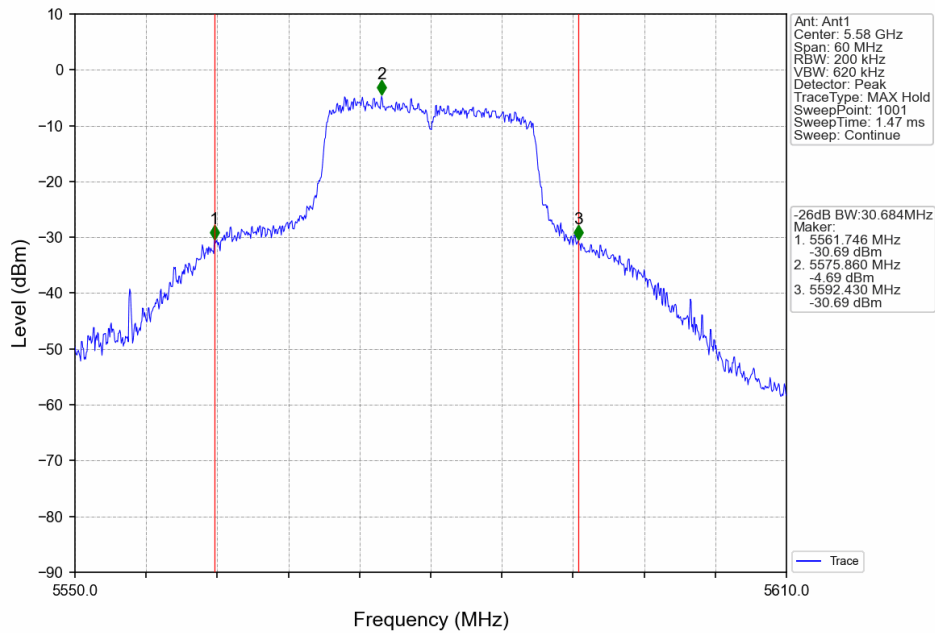
802.11n(HT20)_LCH_5500MHz_Ant1_NTNV



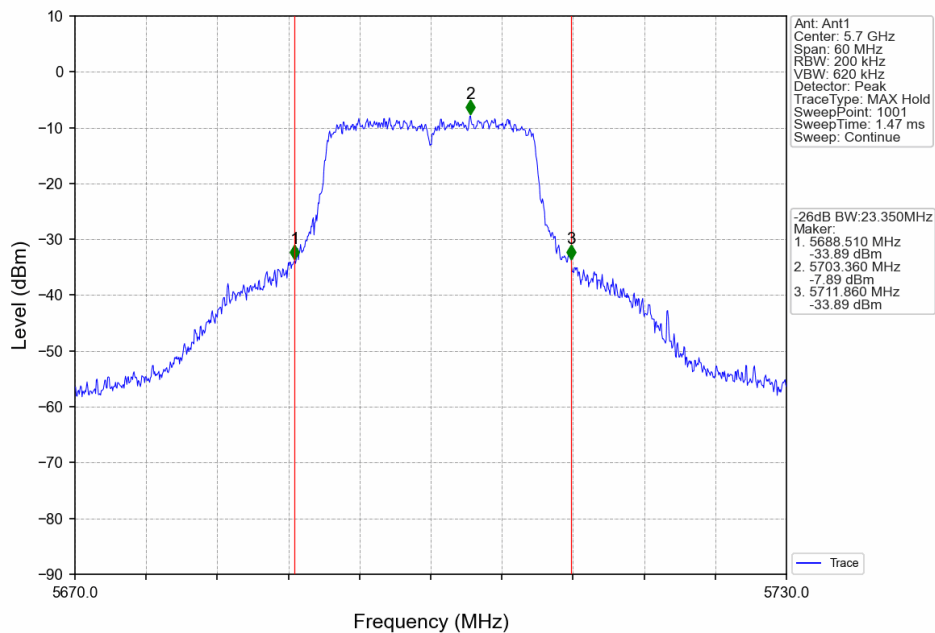
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802.11n(HT20)_MCH_5580MHz_Ant1_NTNV



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	4.02	<=23.98	Pass
		5200	4.75	<=23.98	Pass
		5240	4.59	<=23.98	Pass
		5260	4.78	<=23.98	Pass
		5300	7.36	<=23.98	Pass
		5320	8.71	<=23.98	Pass
		5500	6.33	<=23.98	Pass
		5580	5.52	<=23.98	Pass
		5700	9.51	<=23.98	Pass
		5745	8.66	<=30	Pass
		5785	7.85	<=30	Pass
		5825	5.92	<=30	Pass
802.11n (HT20)	SISO	5180	3.80	<=23.98	Pass
		5200	4.55	<=23.98	Pass
		5240	4.56	<=23.98	Pass
		5260	4.73	<=23.98	Pass
		5300	7.29	<=23.98	Pass
		5320	8.59	<=23.98	Pass
		5500	6.05	<=23.98	Pass
		5580	5.48	<=23.98	Pass
		5700	9.42	<=23.98	Pass
		5745	8.48	<=30	Pass
		5785	7.64	<=30	Pass
		5825	5.57	<=30	Pass
Antenna Gain					
U-NII-1: 3.09dBi; U-NII-2A: 2.61dBi; U-NII-2C: 2.14dBi; U-NII-3: 2.3dBi					



4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

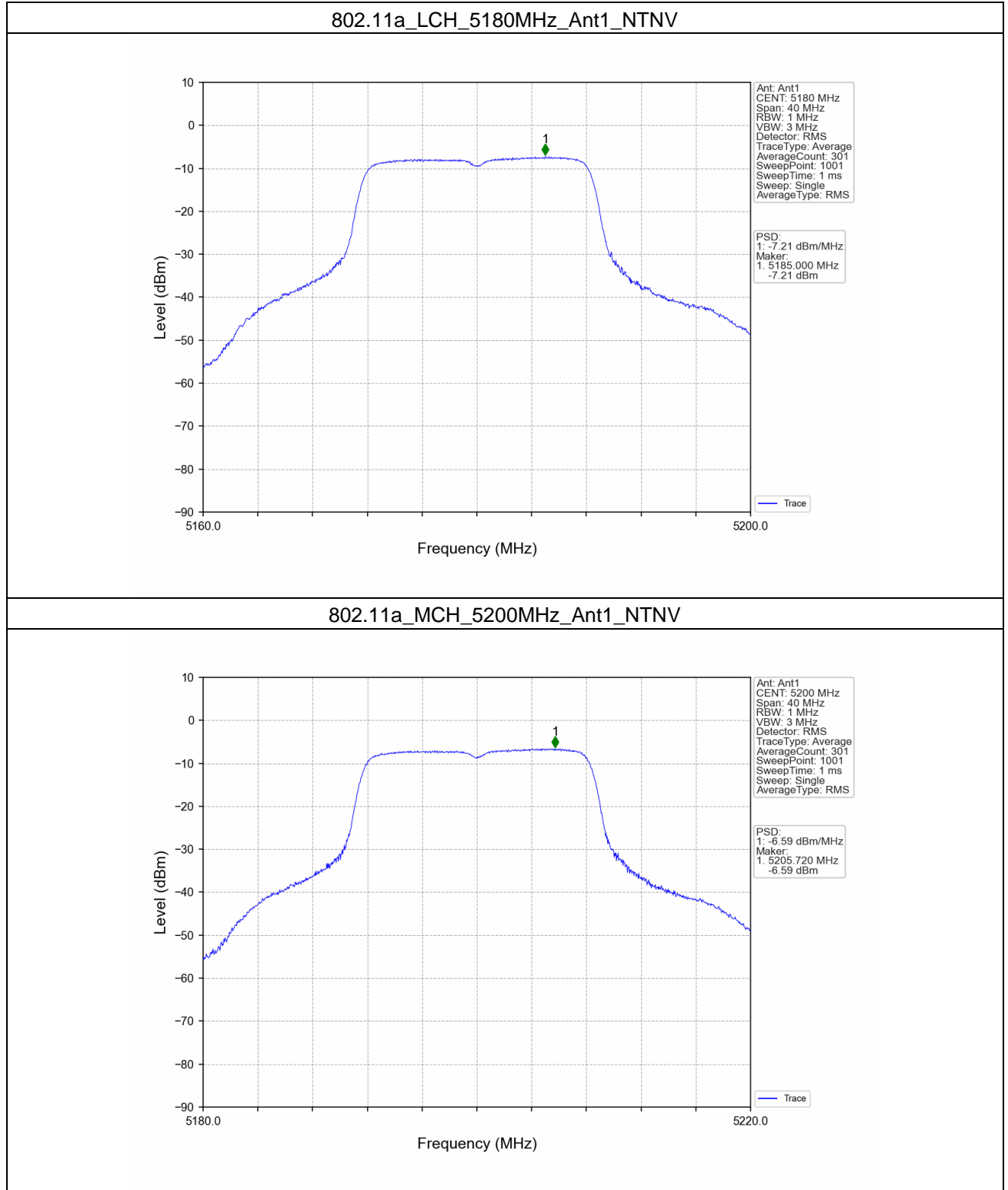
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	-7.21	<=11	Pass
		5200	-6.59	<=11	Pass
		5240	-4.44	<=11	Pass
		5260	-4.45	<=11	Pass
		5300	-1.93	<=11	Pass
		5320	-0.73	<=11	Pass
		5500	-4.10	<=11	Pass
		5580	-3.77	<=11	Pass
		5700	0.12	<=11	Pass
802.11n (HT20)	SISO	5180	-7.48	<=11	Pass
		5200	-6.68	<=11	Pass
		5240	-4.83	<=11	Pass
		5260	-4.75	<=11	Pass
		5300	-2.22	<=11	Pass
		5320	-0.93	<=11	Pass
		5500	-3.46	<=11	Pass
		5580	-4.10	<=11	Pass
		5700	-0.20	<=11	Pass
Antenna Gain U-NII-1: 3.09dBi; U-NII-2A: 2.61dBi; U-NII-2C: 2.14dBi; U-NII-3: 2.3dBi					



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 Guangzhou Branch Testing Service EEC Laboratory | 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

4.1.2 Test Graph

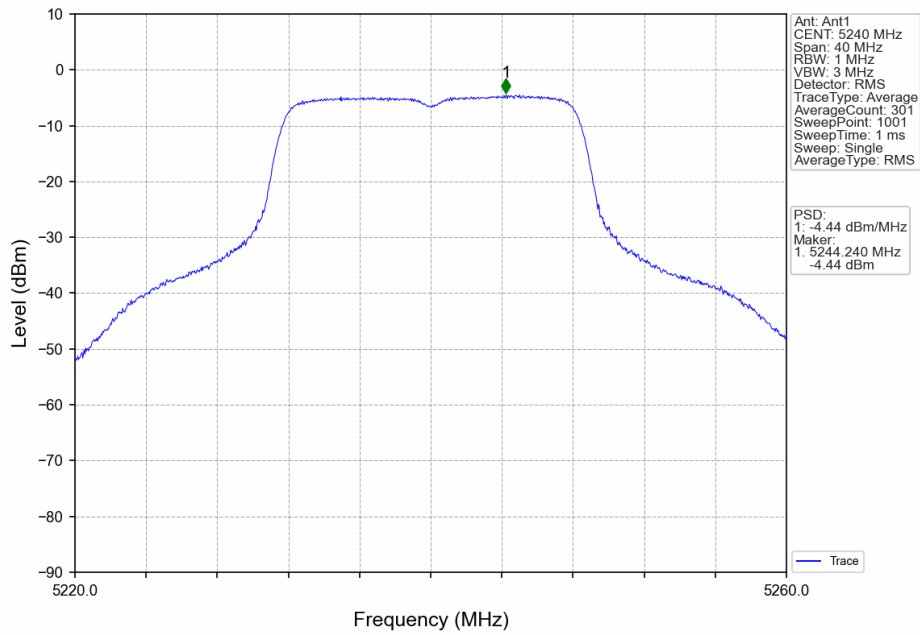


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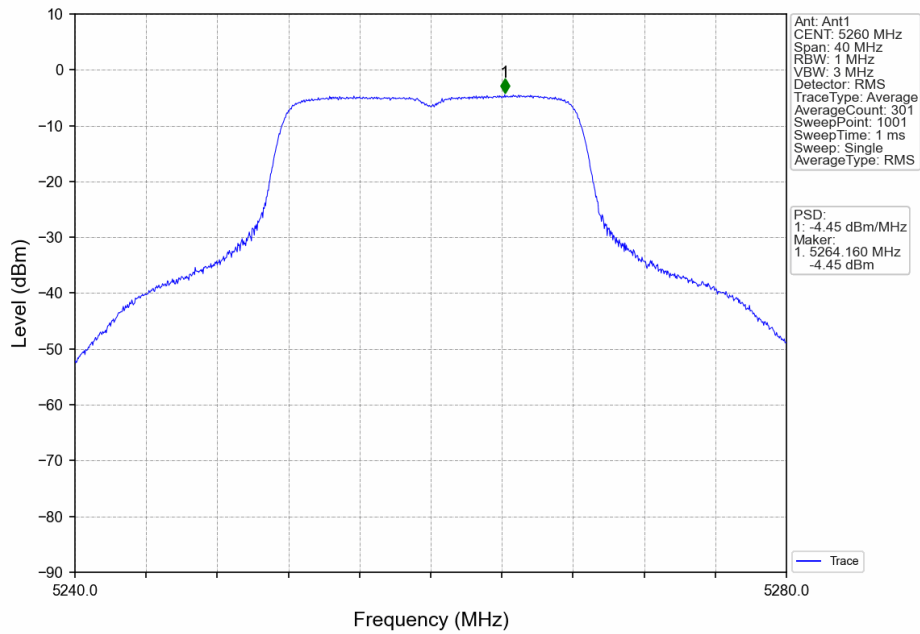
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802.11a_HCH_5240MHz_Ant1_NTNV



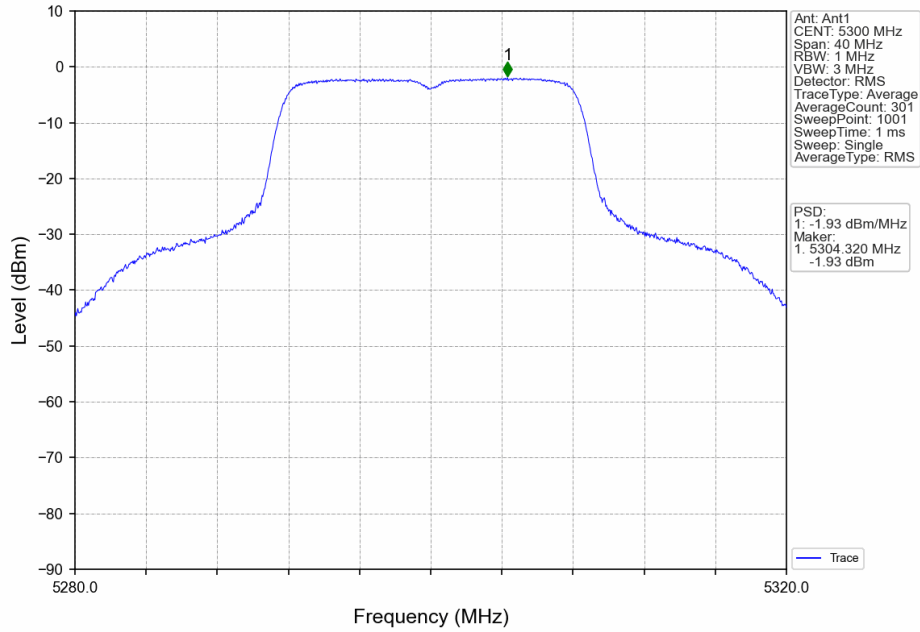
802.11a_LCH_5260MHz_Ant1_NTNV



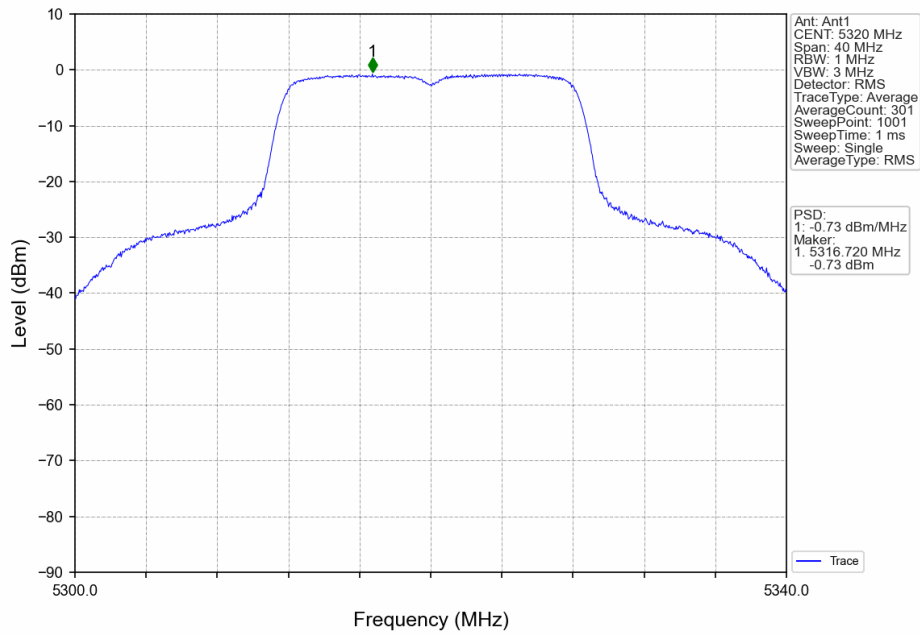
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802.11a_MCH_5300MHz_Ant1_NTNV

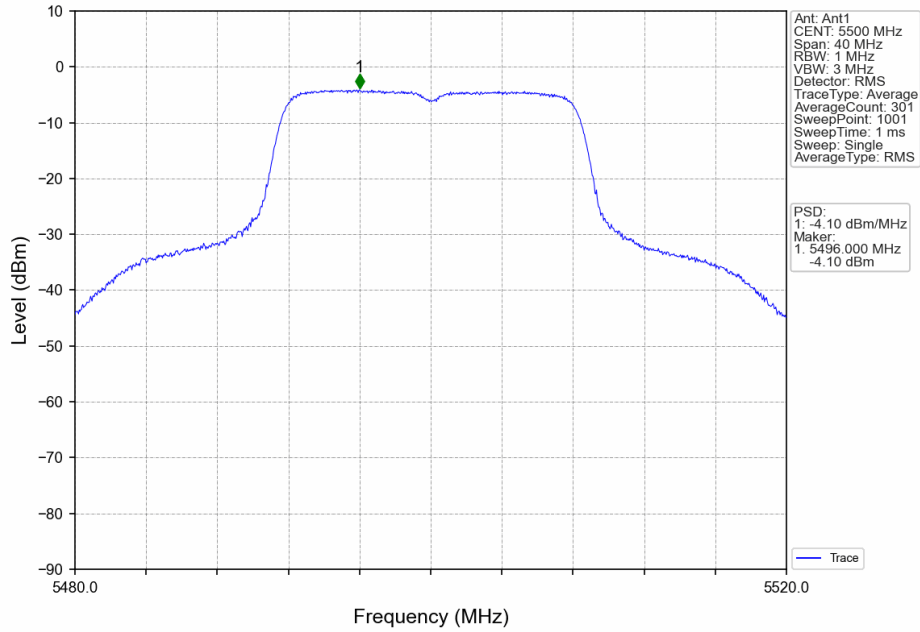


802.11a_HCH_5320MHz_Ant1_NTNV

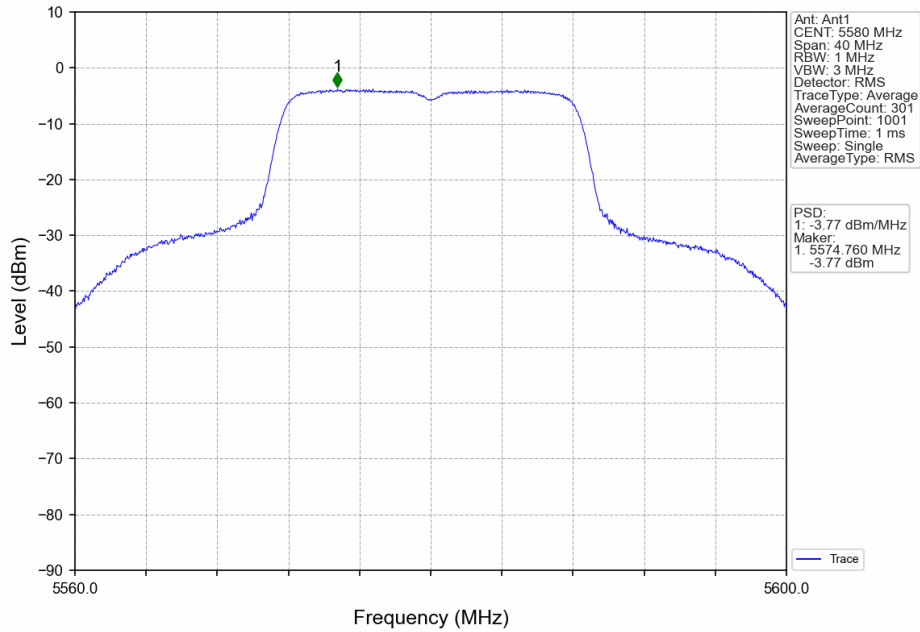


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802.11a_LCH_5500MHz_Ant1_NTNV



802.11a_MCH_5580MHz_Ant1_NTNV

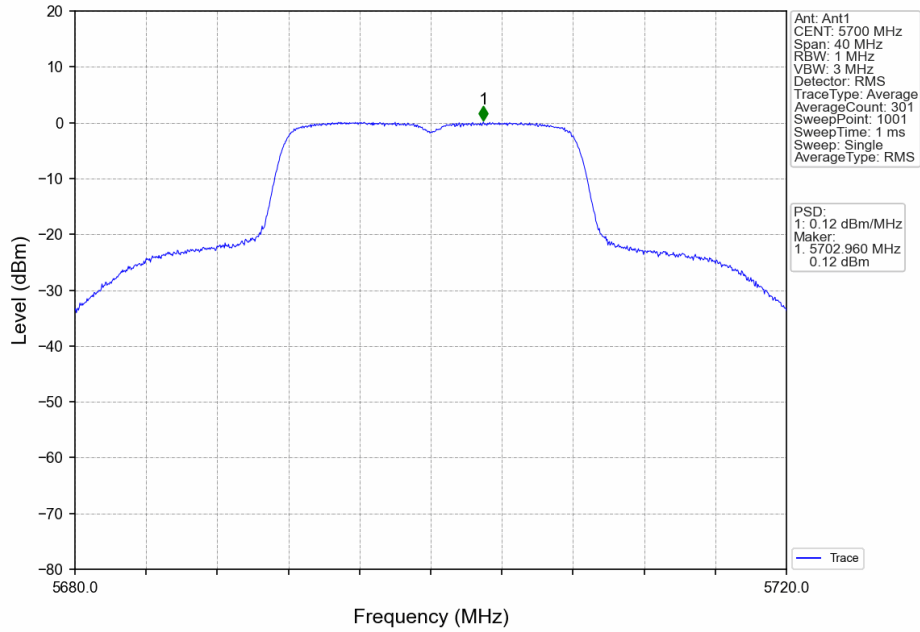


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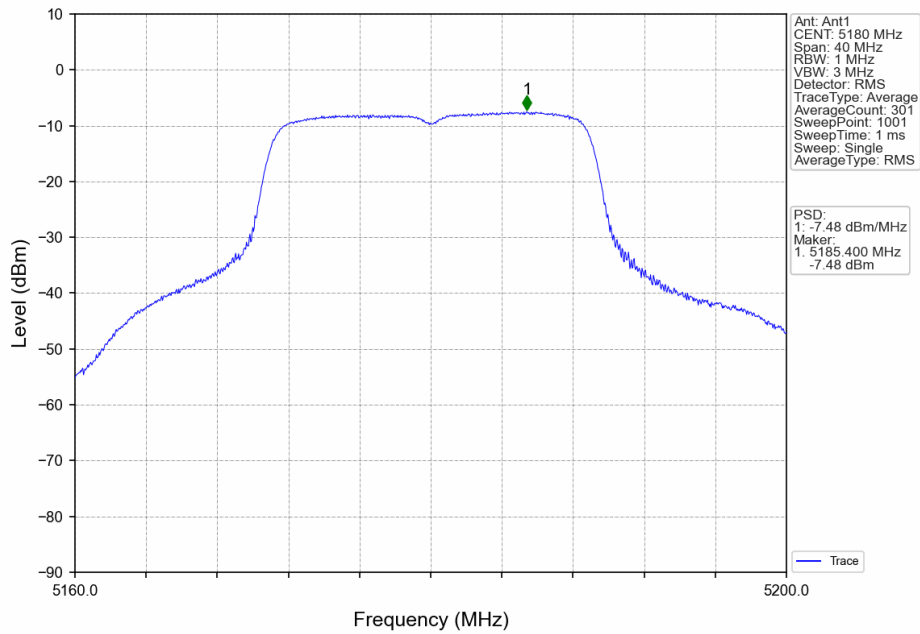
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802.11a_HCH_5700MHz_Ant1_NTNV



802.11n(HT20)_LCH_5180MHz_Ant1_NTNV

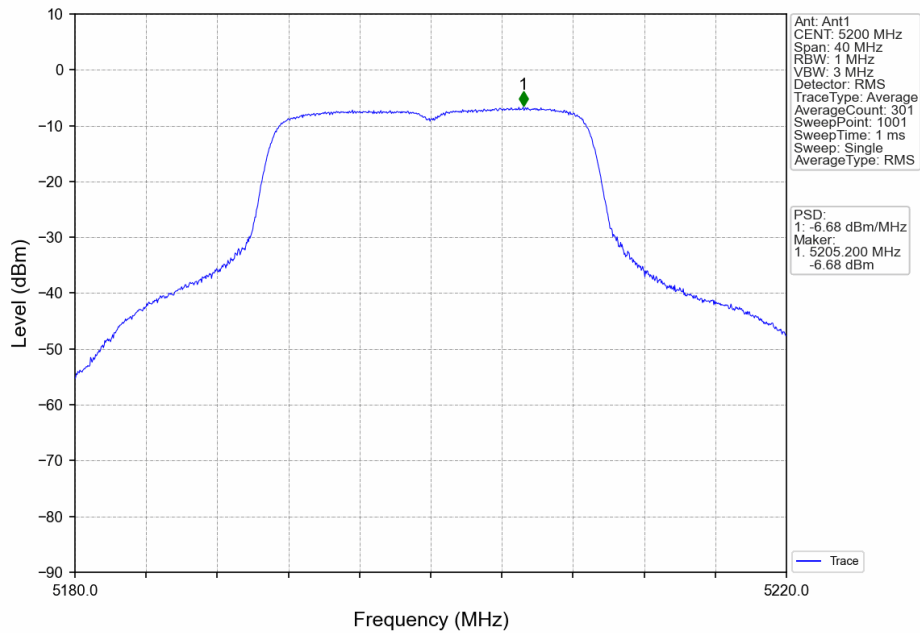


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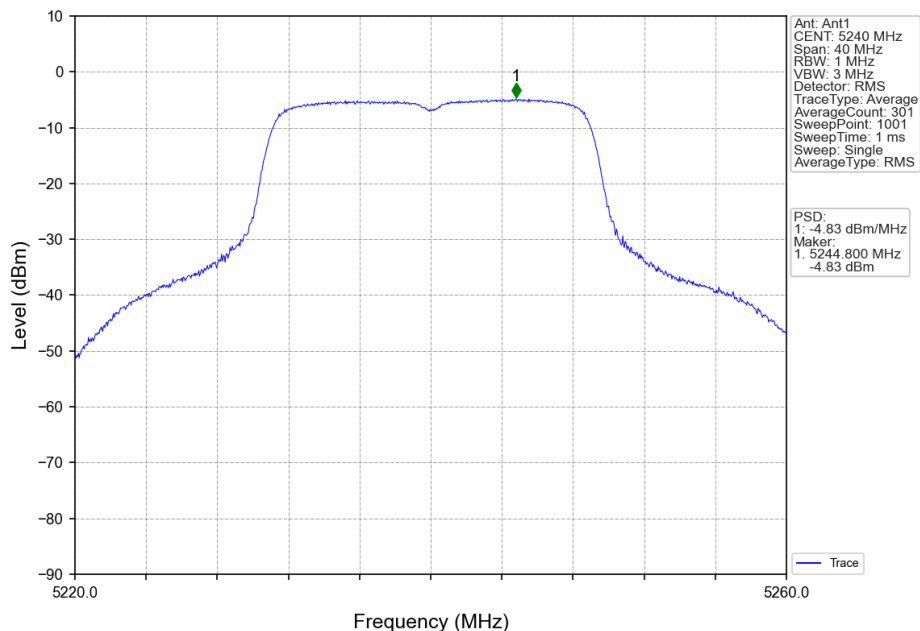
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802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



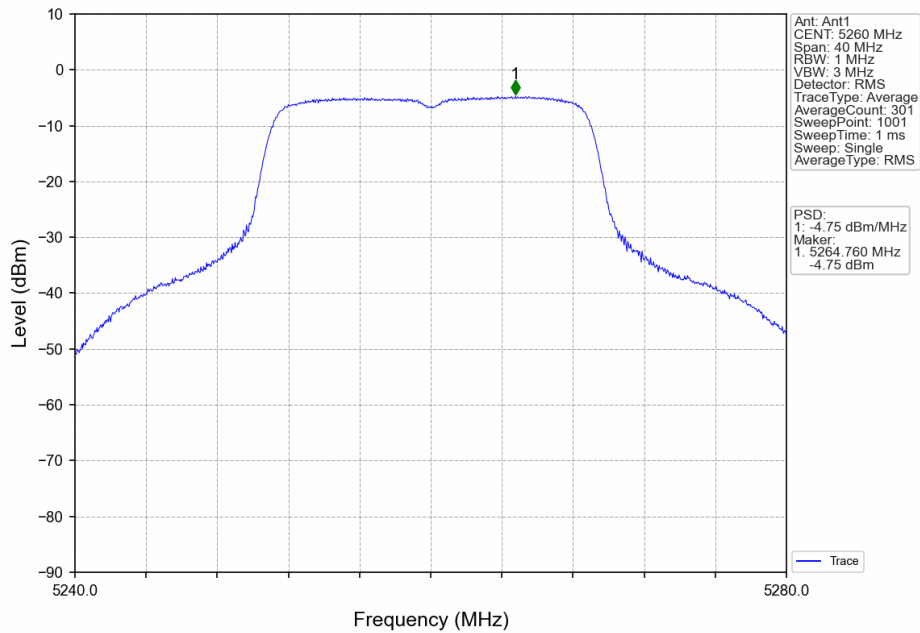
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



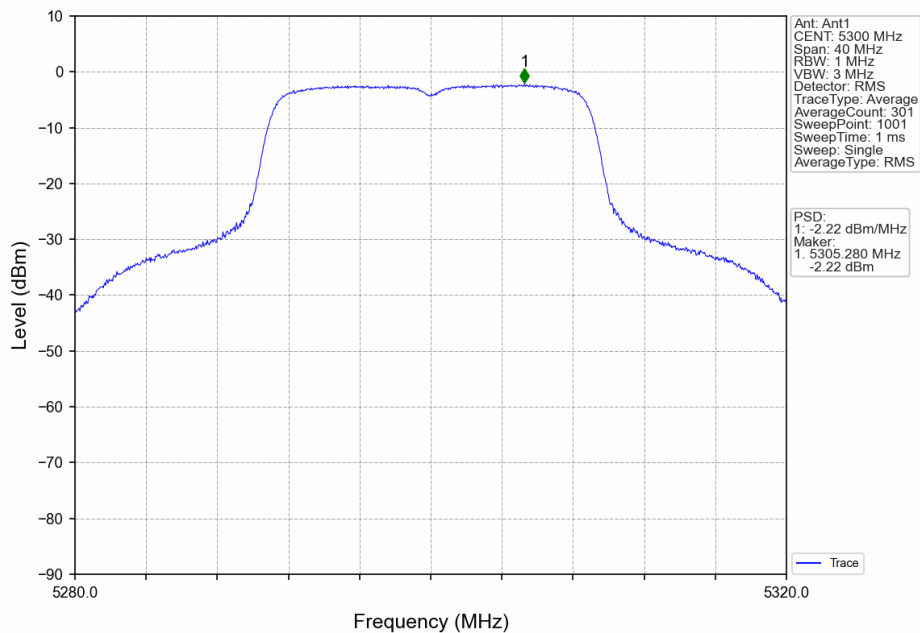
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802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



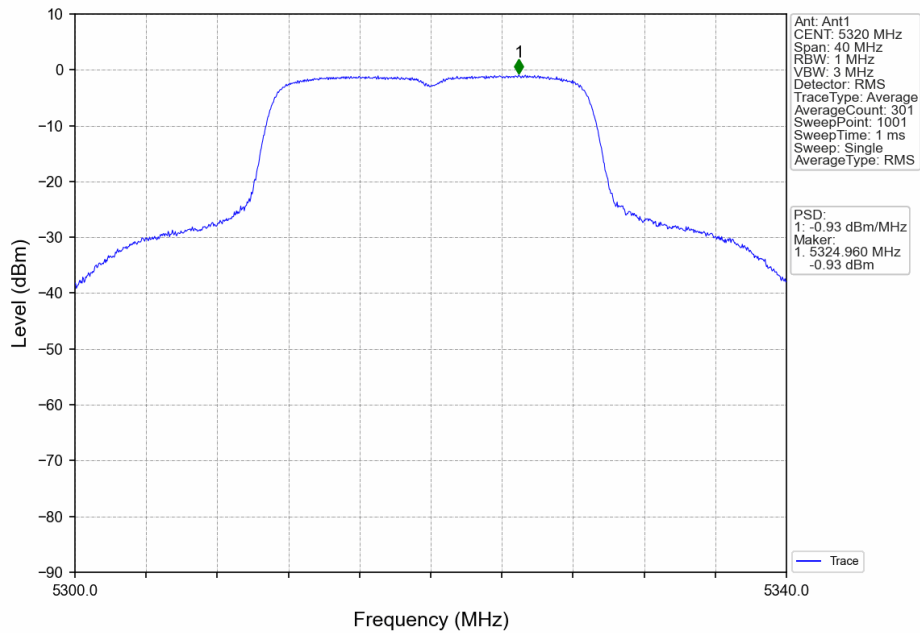
802.11n(HT20)_MCH_5300MHz_Ant1_NTNV



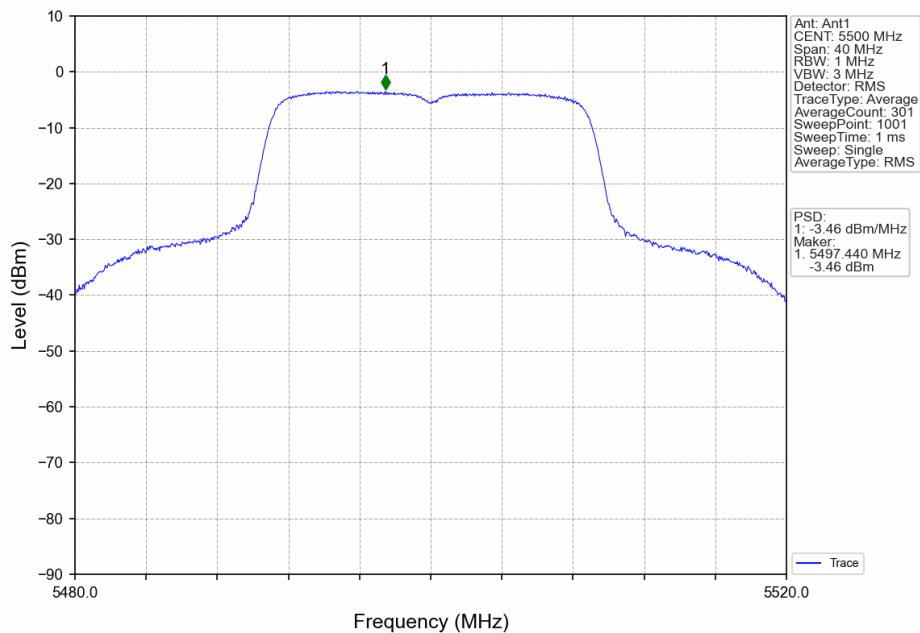
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802.11n(HT20)_HCH_5320MHz_Ant1_NTNV

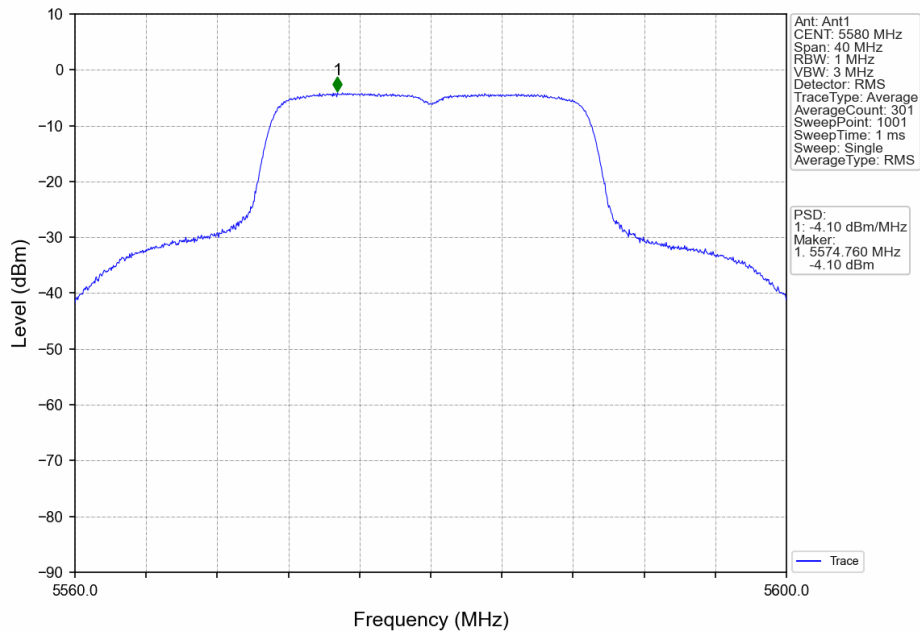


802.11n(HT20)_LCH_5500MHz_Ant1_NTNV

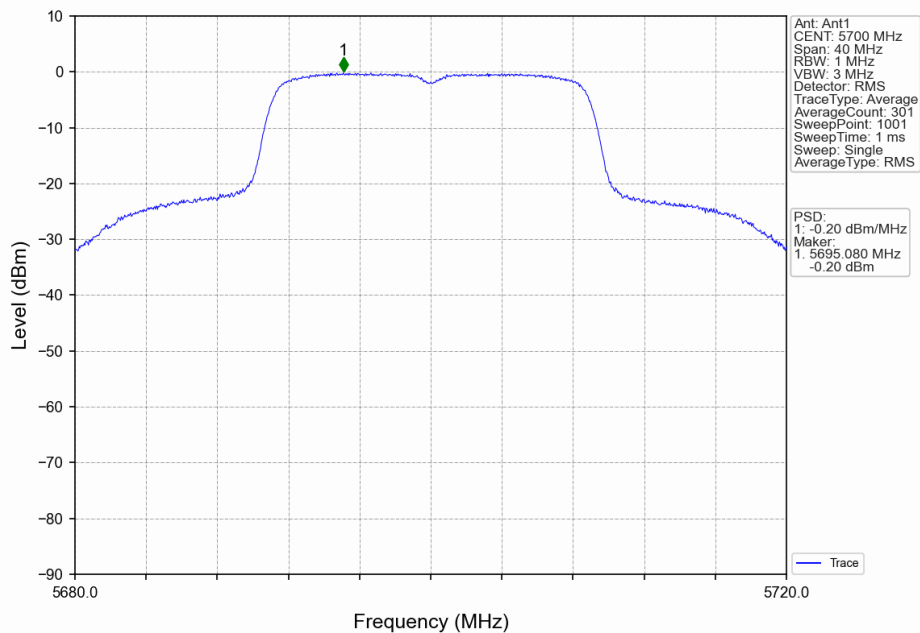


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802.11n(HT20)_MCH_5580MHz_Ant1_NTNV



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	-3.74	<=30	Pass
		5785	-4.55	<=30	Pass
		5825	-6.69	<=30	Pass
802.11n (HT20)	SISO	5745	-4.02	<=30	Pass
		5785	-4.80	<=30	Pass
		5825	-6.87	<=30	Pass

Antenna Gain

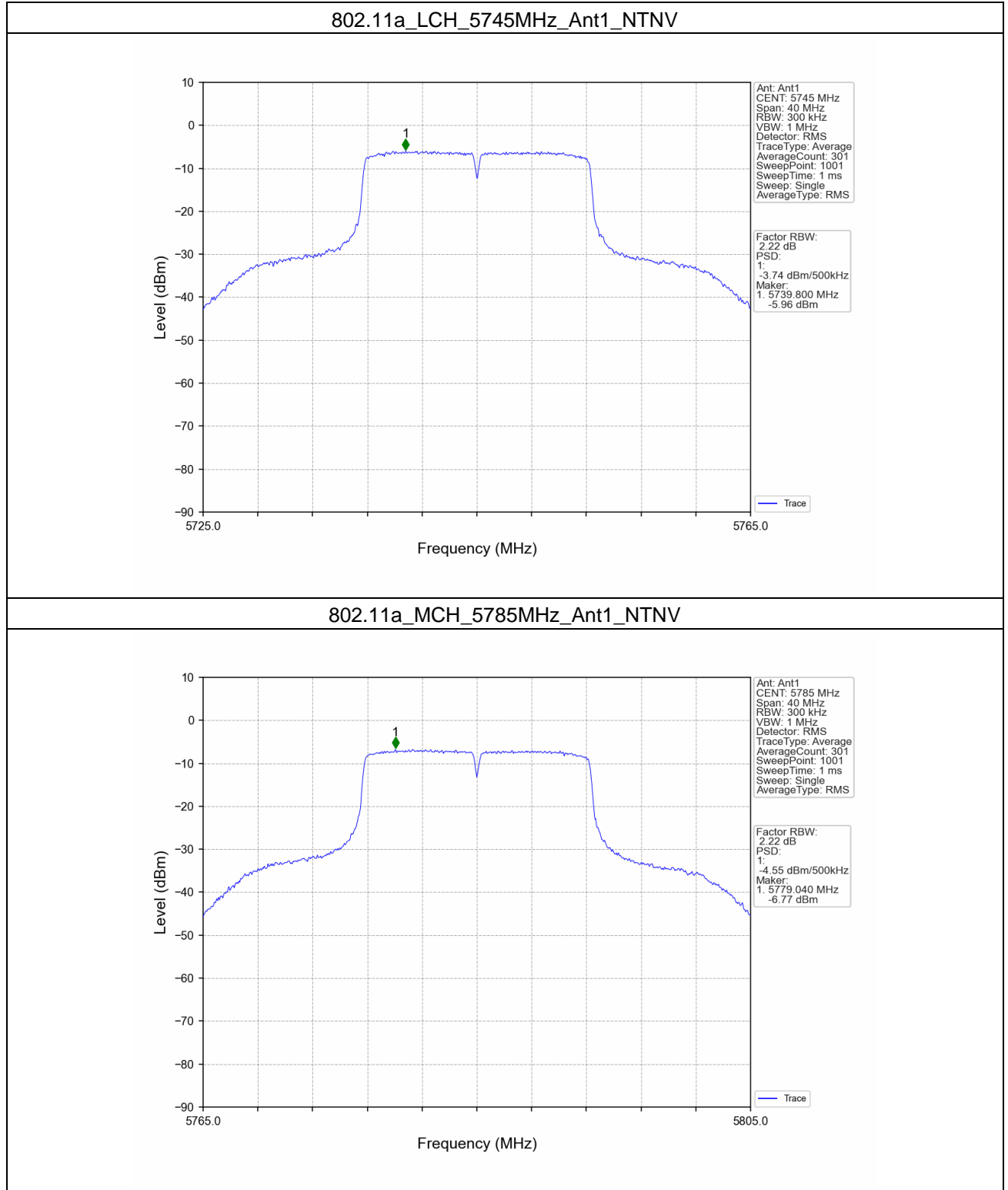
U-NII-1: 3.09dBi; U-NII-2A: 2.61dBi; U-NII-2C: 2.14dBi; U-NII-3: 2.3dBi



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4.2.2 Test Graph

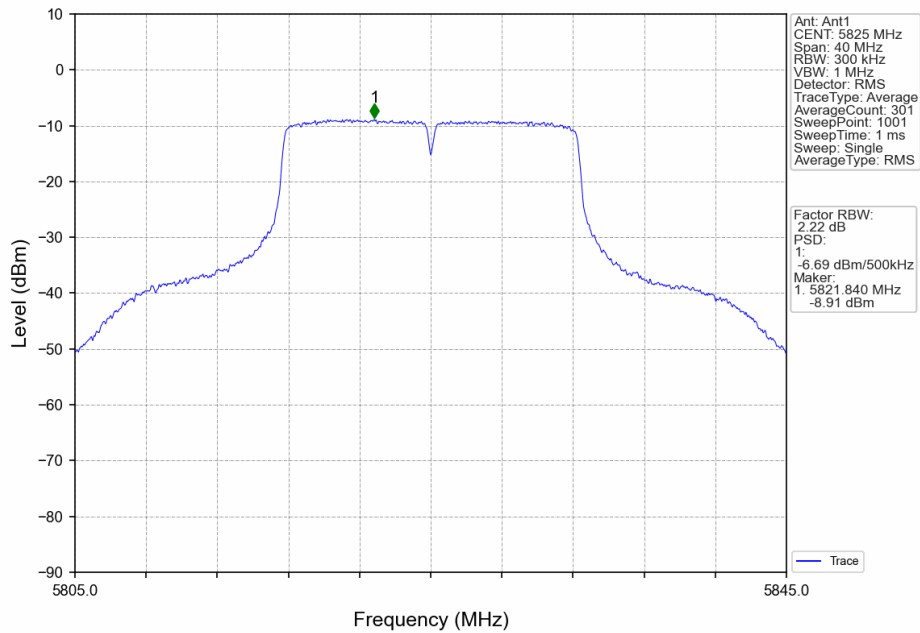


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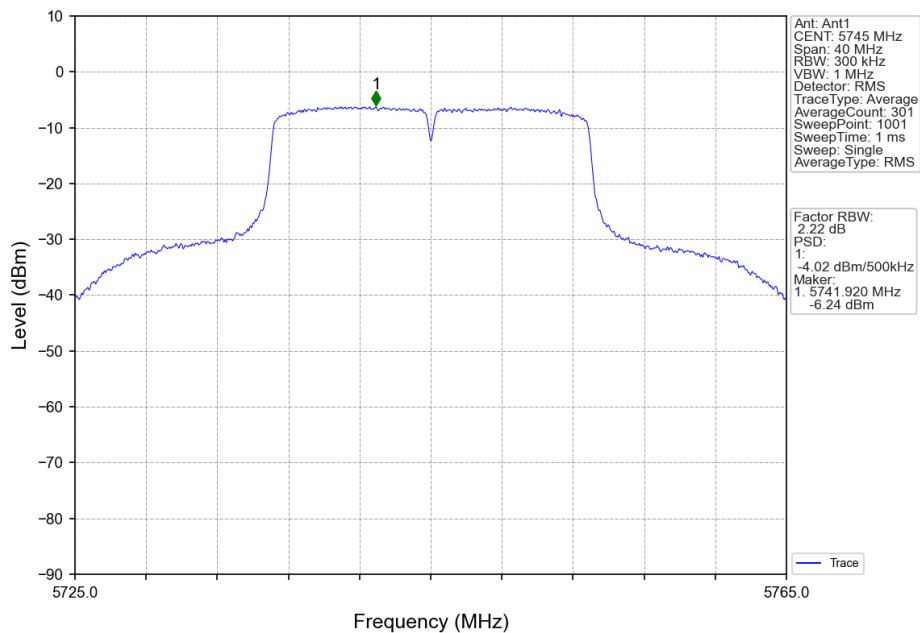
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802.11a_HCH_5825MHz_Ant1_NTNV

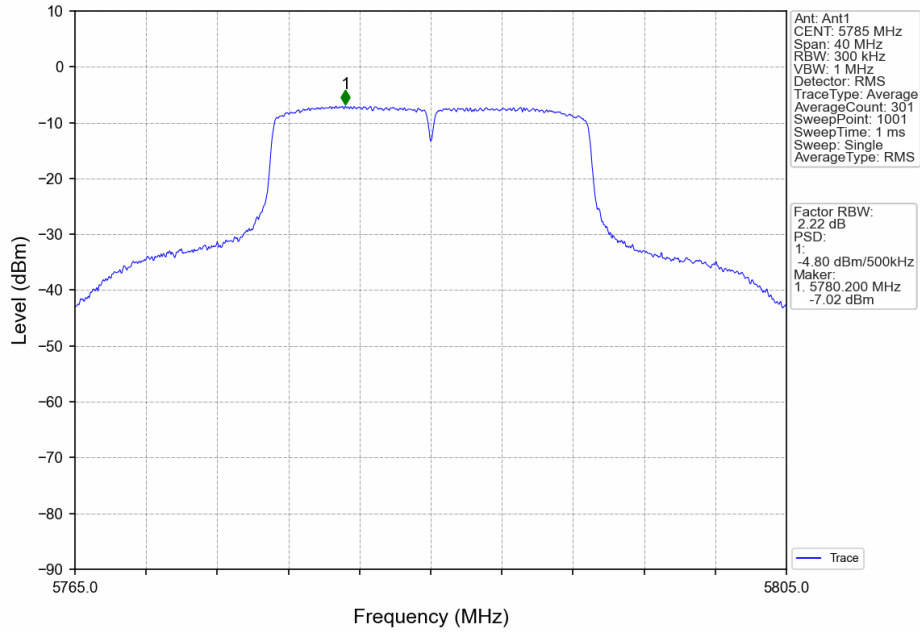


802.11n(HT20)_LCH_5745MHz_Ant1_NTNV

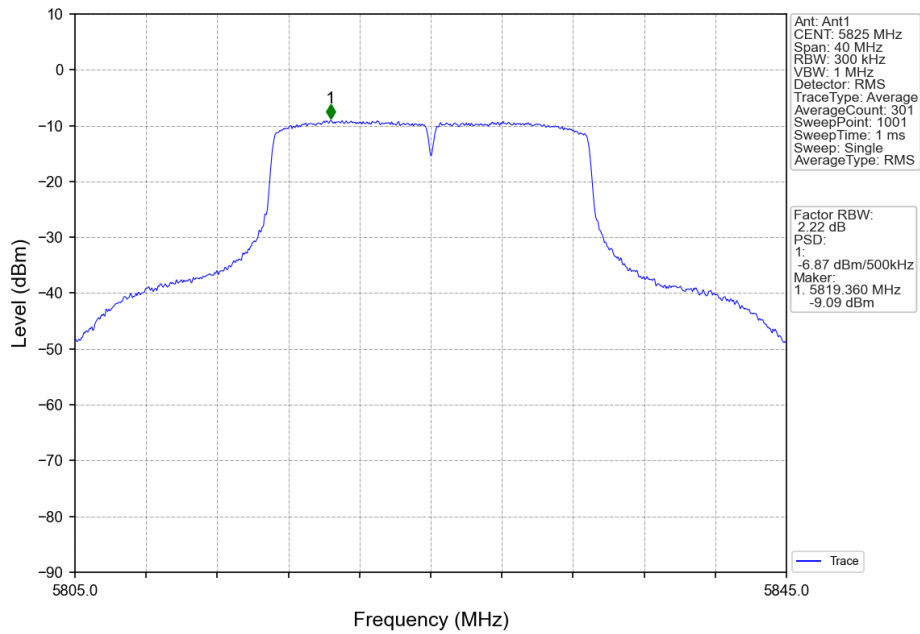


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802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



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5. Frequency Stability

5.1 Ant1

5.1.1 Test Result

Ant1								
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VAC)	Measured Frequency (MHz)	Limit (MHz)	Verdict	
802.11a	SISO	5180	20	3.145	5180.080	5150 to 5250	Pass	
				3.700	5180.060	5150 to 5250	Pass	
				4.255	5180.080	5150 to 5250	Pass	
			-30	3.700	5180.060	5150 to 5250	Pass	
				-20	3.700	5180.100	5150 to 5250	Pass
					-10	3.700	5180.100	5150 to 5250
			0	3.700	5180.060	5150 to 5250	Pass	
				10	3.700	5180.100	5150 to 5250	Pass
				30	3.700	5180.120	5150 to 5250	Pass
				40	3.700	5180.120	5150 to 5250	Pass
		50		3.700	5180.100	5150 to 5250	Pass	
		5200		20	3.145	5200.080	5150 to 5250	Pass
					3.700	5200.060	5150 to 5250	Pass
			4.255		5200.120	5150 to 5250	Pass	
			-30	3.700	5200.060	5150 to 5250	Pass	
				-20	3.700	5200.060	5150 to 5250	Pass
					-10	3.700	5200.040	5150 to 5250
			0	3.700	5200.140	5150 to 5250	Pass	
				10	3.700	5200.060	5150 to 5250	Pass
				30	3.700	5200.140	5150 to 5250	Pass
				40	3.700	5200.080	5150 to 5250	Pass
		50		3.700	5200.120	5150 to 5250	Pass	
		5240		20	3.145	5240.020	5150 to 5250	Pass
					3.700	5240.060	5150 to 5250	Pass
			4.255		5240.080	5150 to 5250	Pass	
			-30	3.700	5240.020	5150 to 5250	Pass	
				-20	3.700	5240.060	5150 to 5250	Pass
					-10	3.700	5240.060	5150 to 5250
			0	3.700	5240.120	5150 to 5250	Pass	
				10	3.700	5240.020	5150 to 5250	Pass
30	3.700			5240.060	5150 to 5250	Pass		
40	3.700			5240.040	5150 to 5250	Pass		



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		5260	50	3.700	5240.100	5150 to 5250	Pass
			20	3.145	5260.060	5250 to 5350	Pass
				3.700	5260.060	5250 to 5350	Pass
				4.255	5260.040	5250 to 5350	Pass
			-30	3.700	5260.080	5250 to 5350	Pass
			-20	3.700	5260.000	5250 to 5350	Pass
			-10	3.700	5260.040	5250 to 5350	Pass
			0	3.700	5260.000	5250 to 5350	Pass
			10	3.700	5260.080	5250 to 5350	Pass
			30	3.700	5260.080	5250 to 5350	Pass
			40	3.700	5260.040	5250 to 5350	Pass
			50	3.700	5260.100	5250 to 5350	Pass
		5300	20	3.145	5300.020	5250 to 5350	Pass
				3.700	5300.060	5250 to 5350	Pass
				4.255	5300.040	5250 to 5350	Pass
			-30	3.700	5300.000	5250 to 5350	Pass
			-20	3.700	5300.020	5250 to 5350	Pass
			-10	3.700	5300.080	5250 to 5350	Pass
			0	3.700	5300.040	5250 to 5350	Pass
			10	3.700	5300.000	5250 to 5350	Pass
			30	3.700	5300.040	5250 to 5350	Pass
			40	3.700	5299.980	5250 to 5350	Pass
			50	3.700	5300.020	5250 to 5350	Pass
			5320	20	3.145	5319.960	5250 to 5350
		3.700			5320.000	5250 to 5350	Pass
		4.255			5320.040	5250 to 5350	Pass
		-30		3.700	5320.000	5250 to 5350	Pass
		-20		3.700	5320.040	5250 to 5350	Pass
		-10		3.700	5320.020	5250 to 5350	Pass
		0		3.700	5320.000	5250 to 5350	Pass
		10		3.700	5320.020	5250 to 5350	Pass
		30		3.700	5320.040	5250 to 5350	Pass
		40		3.700	5320.020	5250 to 5350	Pass
50	3.700	5320.020		5250 to 5350	Pass		
5500	20	3.145		5500.060	5470 to 5725	Pass	
		3.700	5500.020	5470 to 5725	Pass		
		4.255	5499.980	5470 to 5725	Pass		
	-30	3.700	5500.040	5470 to 5725	Pass		
	-20	3.700	5500.020	5470 to 5725	Pass		
	-10	3.700	5499.920	5470 to 5725	Pass		
	0	3.700	5500.020	5470 to 5725	Pass		
	10	3.700	5500.000	5470 to 5725	Pass		



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			30	3.700	5500.040	5470 to 5725	Pass
			40	3.700	5500.060	5470 to 5725	Pass
			50	3.700	5500.040	5470 to 5725	Pass
		5580	20	3.145	5579.900	5470 to 5725	Pass
				3.700	5579.900	5470 to 5725	Pass
				4.255	5579.940	5470 to 5725	Pass
			-30	3.700	5579.940	5470 to 5725	Pass
			-20	3.700	5579.940	5470 to 5725	Pass
			-10	3.700	5579.860	5470 to 5725	Pass
			0	3.700	5579.920	5470 to 5725	Pass
			10	3.700	5579.880	5470 to 5725	Pass
			30	3.700	5579.900	5470 to 5725	Pass
			40	3.700	5579.880	5470 to 5725	Pass
			50	3.700	5579.920	5470 to 5725	Pass
			5700	20	3.145	5700.020	5470 to 5725
		3.700			5700.020	5470 to 5725	Pass
		4.255			5700.040	5470 to 5725	Pass
		-30		3.700	5700.020	5470 to 5725	Pass
		-20		3.700	5700.040	5470 to 5725	Pass
		-10		3.700	5700.040	5470 to 5725	Pass
		0		3.700	5700.040	5470 to 5725	Pass
		10		3.700	5700.060	5470 to 5725	Pass
		30		3.700	5700.000	5470 to 5725	Pass
		40		3.700	5700.020	5470 to 5725	Pass
		50		3.700	5700.040	5470 to 5725	Pass
		5745		20	3.145	5744.960	5725 to 5850
			3.700		5745.000	5725 to 5850	Pass
			4.255		5745.100	5725 to 5850	Pass
			-30	3.700	5745.080	5725 to 5850	Pass
			-20	3.700	5745.000	5725 to 5850	Pass
			-10	3.700	5745.020	5725 to 5850	Pass
			0	3.700	5745.020	5725 to 5850	Pass
			10	3.700	5744.980	5725 to 5850	Pass
			30	3.700	5745.040	5725 to 5850	Pass
			40	3.700	5745.040	5725 to 5850	Pass
			50	3.700	5744.980	5725 to 5850	Pass
			5785	20	3.145	5784.940	5725 to 5850
		3.700			5785.020	5725 to 5850	Pass
		4.255			5784.980	5725 to 5850	Pass
		-30		3.700	5785.040	5725 to 5850	Pass
		-20		3.700	5785.020	5725 to 5850	Pass
		-10		3.700	5785.020	5725 to 5850	Pass



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			0	3.700	5784.940	5725 to 5850	Pass
			10	3.700	5785.020	5725 to 5850	Pass
			30	3.700	5785.000	5725 to 5850	Pass
			40	3.700	5785.020	5725 to 5850	Pass
			50	3.700	5785.020	5725 to 5850	Pass
		5825	20	3.145	5825.000	5725 to 5850	Pass
				3.700	5824.940	5725 to 5850	Pass
				4.255	5824.960	5725 to 5850	Pass
			-30	3.700	5824.960	5725 to 5850	Pass
			-20	3.700	5824.960	5725 to 5850	Pass
			-10	3.700	5824.960	5725 to 5850	Pass
			0	3.700	5825.000	5725 to 5850	Pass
			10	3.700	5824.980	5725 to 5850	Pass
			30	3.700	5824.980	5725 to 5850	Pass
			40	3.700	5824.960	5725 to 5850	Pass
50	3.700	5825.000	5725 to 5850	Pass			
802.11n (HT20)	SISO	5180	20	3.145	5180.100	5150 to 5250	Pass
				3.700	5180.040	5150 to 5250	Pass
				4.255	5180.100	5150 to 5250	Pass
			-30	3.700	5180.080	5150 to 5250	Pass
			-20	3.700	5180.100	5150 to 5250	Pass
			-10	3.700	5180.080	5150 to 5250	Pass
			0	3.700	5180.040	5150 to 5250	Pass
			10	3.700	5180.160	5150 to 5250	Pass
			30	3.700	5180.160	5150 to 5250	Pass
			40	3.700	5180.120	5150 to 5250	Pass
		50	3.700	5180.120	5150 to 5250	Pass	
		5200	20	3.145	5200.100	5150 to 5250	Pass
				3.700	5200.040	5150 to 5250	Pass
				4.255	5200.100	5150 to 5250	Pass
			-30	3.700	5200.100	5150 to 5250	Pass
			-20	3.700	5200.100	5150 to 5250	Pass
			-10	3.700	5200.080	5150 to 5250	Pass
			0	3.700	5200.080	5150 to 5250	Pass
			10	3.700	5200.120	5150 to 5250	Pass
			30	3.700	5200.040	5150 to 5250	Pass
			40	3.700	5200.100	5150 to 5250	Pass
		50	3.700	5200.060	5150 to 5250	Pass	
		5240	20	3.145	5240.040	5150 to 5250	Pass
				3.700	5240.040	5150 to 5250	Pass
				4.255	5240.060	5150 to 5250	Pass
-30	3.700		5240.020	5150 to 5250	Pass		



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		5260	-20	3.700	5240.100	5150 to 5250	Pass
			-10	3.700	5240.040	5150 to 5250	Pass
			0	3.700	5240.080	5150 to 5250	Pass
			10	3.700	5240.080	5150 to 5250	Pass
			30	3.700	5240.040	5150 to 5250	Pass
			40	3.700	5240.080	5150 to 5250	Pass
			50	3.700	5240.040	5150 to 5250	Pass
		5260	20	3.145	5260.080	5250 to 5350	Pass
				3.700	5260.060	5250 to 5350	Pass
				4.255	5260.100	5250 to 5350	Pass
			-30	3.700	5260.000	5250 to 5350	Pass
			-20	3.700	5260.080	5250 to 5350	Pass
			-10	3.700	5260.160	5250 to 5350	Pass
			0	3.700	5260.020	5250 to 5350	Pass
			10	3.700	5260.100	5250 to 5350	Pass
			30	3.700	5260.020	5250 to 5350	Pass
			40	3.700	5260.040	5250 to 5350	Pass
			50	3.700	5260.060	5250 to 5350	Pass
		5300	20	3.145	5300.040	5250 to 5350	Pass
				3.700	5300.000	5250 to 5350	Pass
				4.255	5300.020	5250 to 5350	Pass
			-30	3.700	5300.060	5250 to 5350	Pass
			-20	3.700	5300.060	5250 to 5350	Pass
			-10	3.700	5300.040	5250 to 5350	Pass
			0	3.700	5300.060	5250 to 5350	Pass
			10	3.700	5300.040	5250 to 5350	Pass
			30	3.700	5300.040	5250 to 5350	Pass
			40	3.700	5300.040	5250 to 5350	Pass
		50	3.700	5300.000	5250 to 5350	Pass	
		5320	20	3.145	5320.000	5250 to 5350	Pass
				3.700	5320.020	5250 to 5350	Pass
				4.255	5320.040	5250 to 5350	Pass
			-30	3.700	5320.060	5250 to 5350	Pass
			-20	3.700	5320.040	5250 to 5350	Pass
			-10	3.700	5320.000	5250 to 5350	Pass
			0	3.700	5320.020	5250 to 5350	Pass
			10	3.700	5320.060	5250 to 5350	Pass
			30	3.700	5320.020	5250 to 5350	Pass
			40	3.700	5320.040	5250 to 5350	Pass
		50	3.700	5320.060	5250 to 5350	Pass	
		5500	20	3.145	5500.040	5470 to 5725	Pass
				3.700	5500.000	5470 to 5725	Pass



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			4.255	5500.060	5470 to 5725	Pass	
		-30	3.700	5500.020	5470 to 5725	Pass	
		-20	3.700	5500.020	5470 to 5725	Pass	
		-10	3.700	5500.020	5470 to 5725	Pass	
		0	3.700	5500.040	5470 to 5725	Pass	
		10	3.700	5500.020	5470 to 5725	Pass	
		30	3.700	5500.100	5470 to 5725	Pass	
		40	3.700	5500.040	5470 to 5725	Pass	
		50	3.700	5499.980	5470 to 5725	Pass	
	5580	20	3.145	5579.900	5470 to 5725	Pass	
			3.700	5579.900	5470 to 5725	Pass	
			4.255	5579.960	5470 to 5725	Pass	
			-30	3.700	5579.860	5470 to 5725	Pass
			-20	3.700	5579.880	5470 to 5725	Pass
			-10	3.700	5579.920	5470 to 5725	Pass
			0	3.700	5579.840	5470 to 5725	Pass
			10	3.700	5579.900	5470 to 5725	Pass
			30	3.700	5579.920	5470 to 5725	Pass
			40	3.700	5579.900	5470 to 5725	Pass
			50	3.700	5579.880	5470 to 5725	Pass
		5700	20	3.145	5700.000	5470 to 5725	Pass
				3.700	5700.040	5470 to 5725	Pass
	4.255			5700.000	5470 to 5725	Pass	
			-30	3.700	5700.000	5470 to 5725	Pass
			-20	3.700	5700.000	5470 to 5725	Pass
			-10	3.700	5700.000	5470 to 5725	Pass
			0	3.700	5699.980	5470 to 5725	Pass
			10	3.700	5700.020	5470 to 5725	Pass
			30	3.700	5700.020	5470 to 5725	Pass
			40	3.700	5700.080	5470 to 5725	Pass
		50	3.700	5700.040	5470 to 5725	Pass	
	5745	20	3.145	5744.960	5725 to 5850	Pass	
			3.700	5745.040	5725 to 5850	Pass	
			4.255	5745.020	5725 to 5850	Pass	
			-30	3.700	5745.000	5725 to 5850	Pass
			-20	3.700	5745.020	5725 to 5850	Pass
			-10	3.700	5744.980	5725 to 5850	Pass
			0	3.700	5745.020	5725 to 5850	Pass
			10	3.700	5744.980	5725 to 5850	Pass
			30	3.700	5745.000	5725 to 5850	Pass
			40	3.700	5745.080	5725 to 5850	Pass
		50	3.700	5745.000	5725 to 5850	Pass	



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		5785	20	3.145	5785.040	5725 to 5850	Pass	
				3.700	5784.980	5725 to 5850	Pass	
				4.255	5785.000	5725 to 5850	Pass	
			-30	3.700	5784.980	5725 to 5850	Pass	
				-20	3.700	5785.000	5725 to 5850	Pass
					-10	3.700	5784.920	5725 to 5850
			0	3.700	5785.020	5725 to 5850	Pass	
			10	3.700	5784.960	5725 to 5850	Pass	
			30	3.700	5785.040	5725 to 5850	Pass	
			40	3.700	5785.020	5725 to 5850	Pass	
		50	3.700	5785.020	5725 to 5850	Pass		
		5825	20	3.145	5825.000	5725 to 5850	Pass	
				3.700	5824.960	5725 to 5850	Pass	
				4.255	5824.980	5725 to 5850	Pass	
			-30	3.700	5824.980	5725 to 5850	Pass	
				-20	3.700	5825.040	5725 to 5850	Pass
					-10	3.700	5825.020	5725 to 5850
			0	3.700	5824.980	5725 to 5850	Pass	
			10	3.700	5825.000	5725 to 5850	Pass	
			30	3.700	5825.000	5725 to 5850	Pass	
40	3.700		5824.960	5725 to 5850	Pass			
50	3.700	5825.000	5725 to 5850	Pass				



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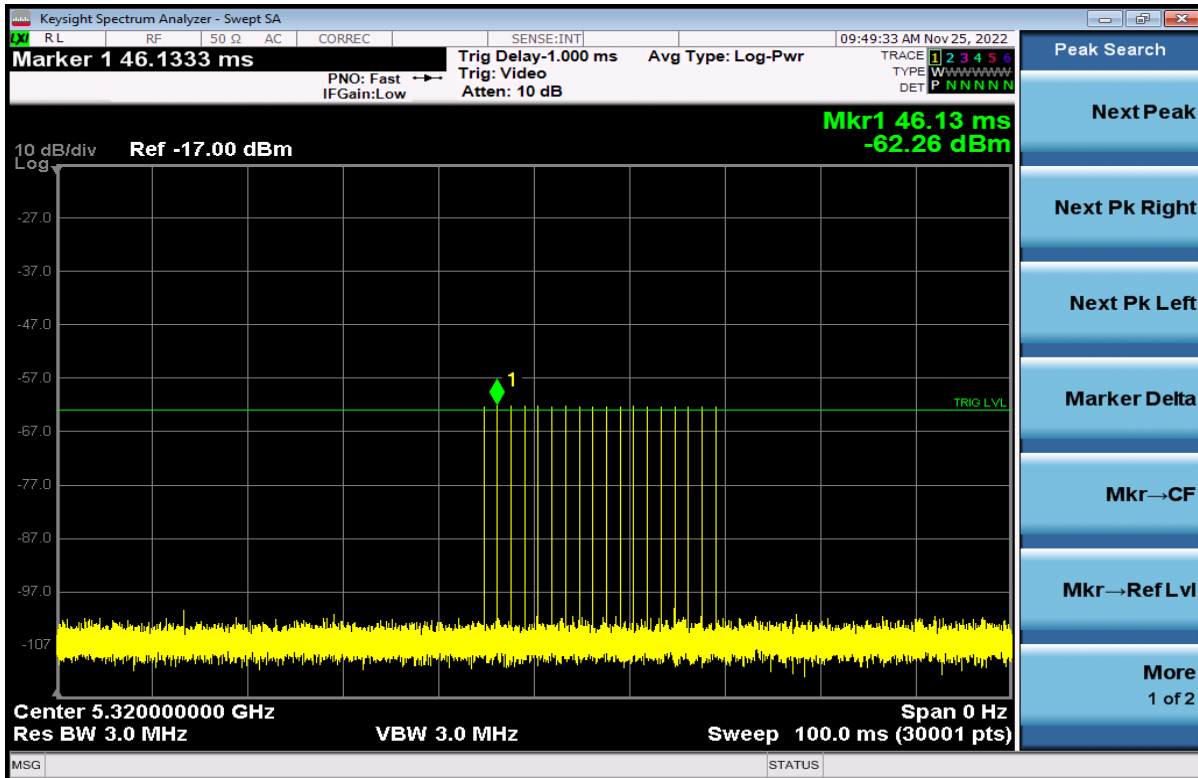
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6. Dynamic Frequency Selection

6.1 Channel Move Time and Channel Closing Transmission Time

6.1.1 Test Result

Radar

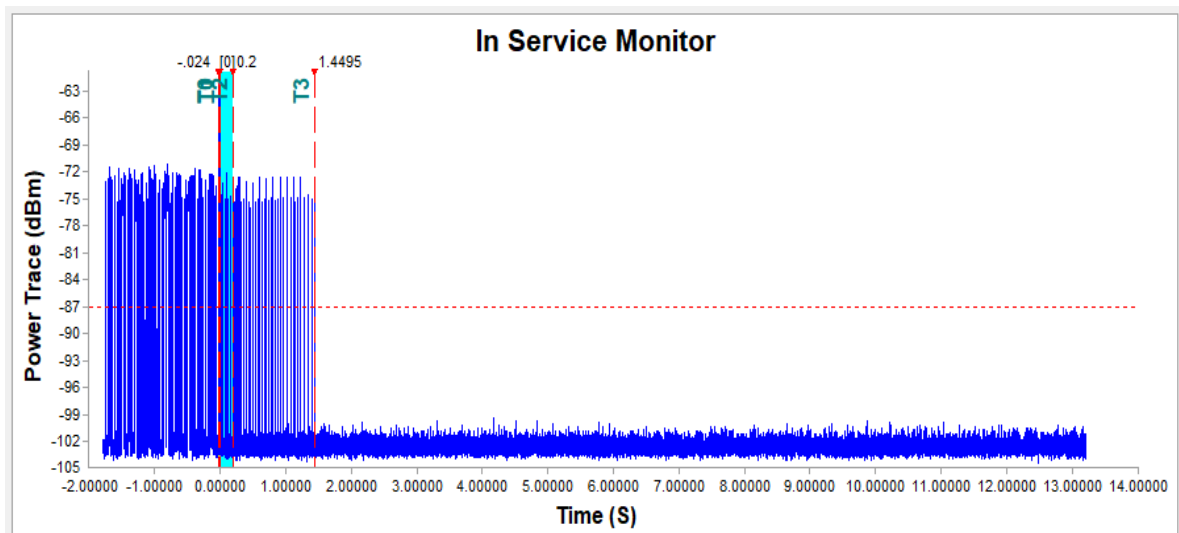
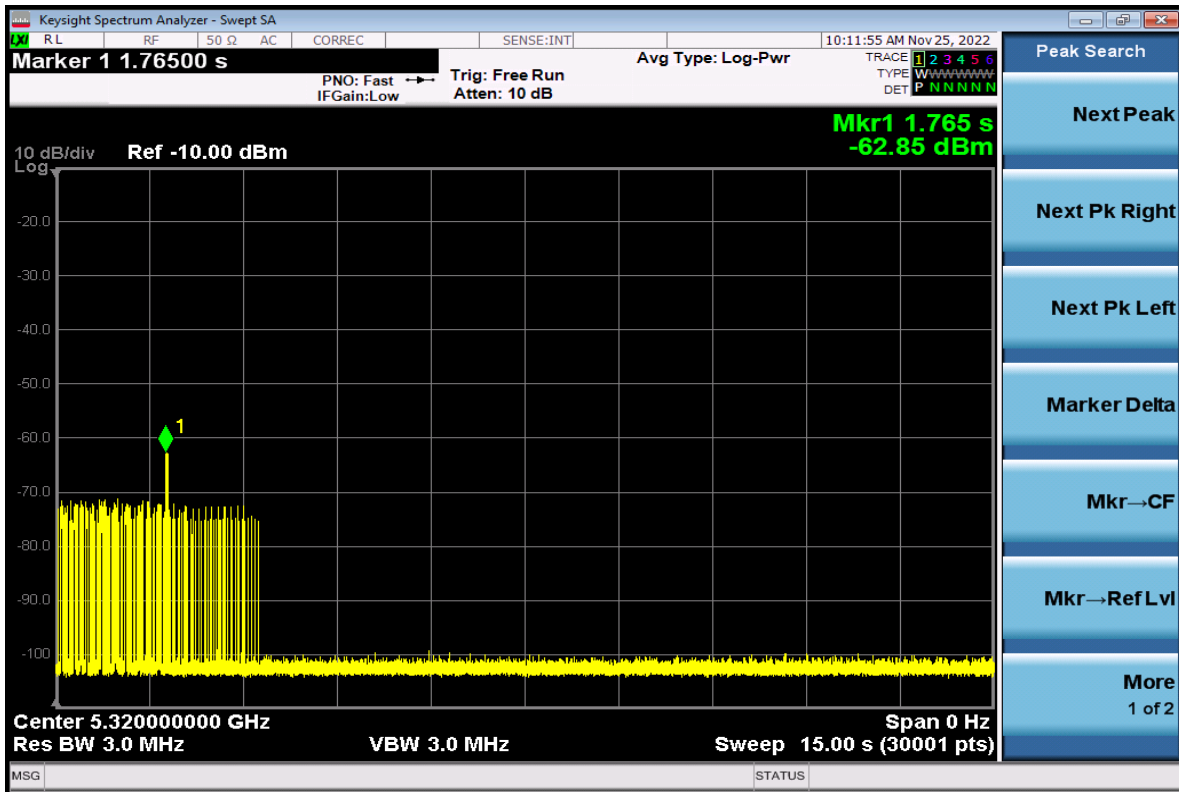


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5320MHz



Time Index Info		
T0 : -0.0240 S (Radar Injection Start)	Time Per Bin: 0.4999833	Channel Move Time: 1.4494517 S
T1 : 0.0000 S (Radar Injection Stop)	T2-T3 Bins Over Threshold: = 56 Bins	Channel Close Time: 0.0279991 S
T2 : 0.2000 S (200msec Interval)		
T3 : 1.4495 S (Channel Move Time)		



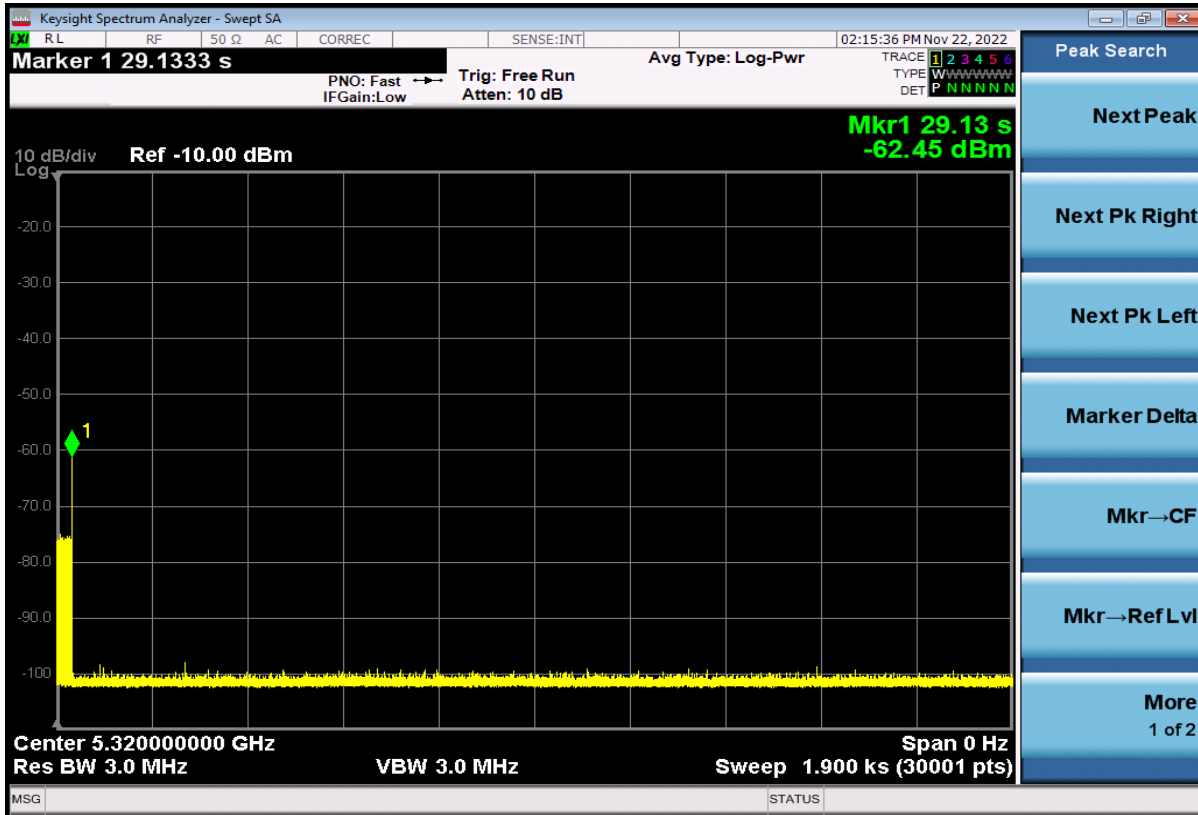
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6.2 Non-occupancy period

6.2.1 Test Result

5320MHz



- End of the Report -

