

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700332810

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								6875	
						0	3.83	6565.040	6525 to 6875 Pass
						10	3.83	6565.040	6525 to 6875 Pass
						30	3.83	6565.040	6525 to 6875 Pass
						40	3.83	6565.000	6525 to 6875 Pass
						50	3.83	6565.000	6525 to 6875 Pass
			6685	RU484	Left		3.26	6684.960	6525 to 6875 Pass
						20	3.83	6685.040	6525 to 6875 Pass
							4.4	6685.000	6525 to 6875 Pass
						-30	3.83	6684.960	6525 to 6875 Pass
						-20	3.83	6685.000	6525 to 6875 Pass
						-10	3.83	6685.040	6525 to 6875 Pass
						0	3.83	6685.000	6525 to 6875 Pass
						10	3.83	6685.040	6525 to 6875 Pass
						30	3.83	6685.040	6525 to 6875 Pass
						40	3.83	6684.960	6525 to 6875 Pass
						50	3.83	6685.040	6525 to 6875 Pass
			6845	RU484	Left		3.26	6845.000	6525 to 6875 Pass
						20	3.83	6845.000	6525 to 6875 Pass
							4.4	6845.000	6525 to 6875 Pass
						-30	3.83	6845.040	6525 to 6875 Pass
						-20	3.83	6845.000	6525 to 6875 Pass
						-10	3.83	6845.000	6525 to 6875 Pass



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						0	3.83	6845.000	6525 to 6875	Pass
						10	3.83	6844.960	6525 to 6875	Pass
						30	3.83	6844.960	6525 to 6875	Pass
						40	3.83	6845.000	6525 to 6875	Pass
						50	3.83	6845.000	6525 to 6875	Pass
	802.11ax (HEW80)	MIMO	6625	RU996	Left	20	3.26	6625.000	6525 to 6875	Pass
							3.83	6625.075	6525 to 6875	Pass
							4.4	6624.925	6525 to 6875	Pass
						-30	3.83	6625.000	6525 to 6875	Pass
						-20	3.83	6625.000	6525 to 6875	Pass
						-10	3.83	6625.000	6525 to 6875	Pass
						0	3.83	6624.775	6525 to 6875	Pass
						10	3.83	6625.000	6525 to 6875	Pass
						30	3.83	6624.925	6525 to 6875	Pass
						40	3.83	6625.000	6525 to 6875	Pass
						50	3.83	6625.000	6525 to 6875	Pass
			6705	RU996	Left	20	3.26	6705.000	6525 to 6875	Pass
							3.83	6705.000	6525 to 6875	Pass
							4.4	6705.000	6525 to 6875	Pass
						-30	3.83	6705.000	6525 to 6875	Pass
						-20	3.83	6704.925	6525 to 6875	Pass
						-10	3.83	6704.925	6525 to 6875	Pass
						0	3.83	6705.075	6525 to 6875	Pass



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									6875	
						10	3.83	6705.075	6525 to 6875	Pass
						30	3.83	6704.925	6525 to 6875	Pass
						40	3.83	6705.075	6525 to 6875	Pass
						50	3.83	6705.000	6525 to 6875	Pass
			6785	RU996	Left	20	3.26	6785.075	6525 to 6875	Pass
							3.83	6785.000	6525 to 6875	Pass
							4.4	6784.925	6525 to 6875	Pass
						-30	3.83	6784.925	6525 to 6875	Pass
						-20	3.83	6785.000	6525 to 6875	Pass
	802.11ax (HEW160)	MIMO	6665	2xRU996	Left	20	3.26	6664.775	6525 to 6875	Pass
							3.83	6664.925	6525 to 6875	Pass
							4.4	6664.925	6525 to 6875	Pass
						-30	3.83	6665.075	6525 to 6875	Pass
						-20	3.83	6665.000	6525 to 6875	Pass
						-10	3.83	6664.775	6525 to 6875	Pass
						0	3.83	6665.000	6525 to 6875	Pass



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						10	3.83	6664.850	6525 to 6875	Pass
						30	3.83	6664.550	6525 to 6875	Pass
						40	3.83	6664.925	6525 to 6875	Pass
						50	3.83	6664.850	6525 to 6875	Pass



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6. Emission Mask

6.1 Test Result

6.1.1 EMask

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	Test Result	Limit	Verdict
NTNV	802.11ax (HEW20)	MIMO	5955	RU26	Left	12	Refer To Test Graph		Pass
				RU52	Left	12	Refer To Test Graph		Pass
				RU106	Left	12	Refer To Test Graph		Pass
				RU242	Left	12	Refer To Test Graph		Pass
			6175	RU26	Mid	12	Refer To Test Graph		Pass
				RU52	Mid	12	Refer To Test Graph		Pass
				RU106	Left	12	Refer To Test Graph		Pass
				RU242	Left	12	Refer To Test Graph		Pass
			6415	RU26	Right	12	Refer To Test Graph		Pass
				RU52	Right	12	Refer To Test Graph		Pass
				RU106	Right	12	Refer To Test Graph		Pass
				RU242	Left	12	Refer To Test Graph		Pass
	802.11ax (HEW40)	MIMO	5965	RU242	Left	12	Refer To Test Graph		Pass
				RU484	Left	12	Refer To Test Graph		Pass
			6165	RU242	Left	12	Refer To Test Graph		Pass
				RU484	Left	12	Refer To Test Graph		Pass
			6405	RU242	Right	12	Refer To Test Graph		Pass
				RU484	Left	12	Refer To Test Graph		Pass
			5985	RU484	Left	12	Refer To Test Graph		Pass
				RU996	Left	12	Refer To Test Graph		Pass
	802.11ax (HEW80)	MIMO	6145	RU484	Left	12	Refer To Test Graph		Pass
				RU996	Left	12	Refer To Test Graph		Pass
			6385	RU484	Right	12	Refer To Test Graph		Pass
				RU996	Left	12	Refer To Test Graph		Pass
			6025	RU996	Left	12	Refer To Test Graph		Pass
				2xRU996	Left	12	Refer To Test Graph		Pass
			6185	RU996	Left	12	Refer To Test Graph		Pass
				2xRU996	Left	12	Refer To Test Graph		Pass
	802.11ax (HEW160)	MIMO	6345	RU996	Right	12	Refer To Test Graph		Pass
				2xRU996	Left	12	Refer To Test Graph		Pass

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6.1.2 EMask

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	Test Result	Limit	Verdict
NTNV	802.11ax (HEW20)	MIMO	6535	RU26	Left	12	Refer To Test Graph		Pass
				RU52	Left	12	Refer To Test Graph		Pass
				RU106	Left	12	Refer To Test Graph		Pass
				RU242	Left	12	Refer To Test Graph		Pass
			6695	RU26	Mid	12	Refer To Test Graph		Pass
				RU52	Mid	12	Refer To Test Graph		Pass
				RU106	Left	12	Refer To Test Graph		Pass
				RU242	Left	12	Refer To Test Graph		Pass
			6855	RU26	Right	12	Refer To Test Graph		Pass
				RU52	Right	12	Refer To Test Graph		Pass
				RU106	Right	12	Refer To Test Graph		Pass
				RU242	Left	12	Refer To Test Graph		Pass
	802.11ax (HEW40)	MIMO	6565	RU242	Left	12	Refer To Test Graph		Pass
				RU484	Left	12	Refer To Test Graph		Pass
			6685	RU242	Left	12	Refer To Test Graph		Pass
				RU484	Left	12	Refer To Test Graph		Pass
			6845	RU242	Right	12	Refer To Test Graph		Pass
				RU484	Left	12	Refer To Test Graph		Pass
	802.11ax (HEW80)	MIMO	6625	RU484	Left	12	Refer To Test Graph		Pass
				RU996	Left	12	Refer To Test Graph		Pass
			6705	RU484	Left	12	Refer To Test Graph		Pass
				RU996	Left	12	Refer To Test Graph		Pass
			6785	RU484	Right	12	Refer To Test Graph		Pass
				RU996	Left	12	Refer To Test Graph		Pass
	802.11ax (HEW160)	MIMO	6665	RU996	Left	12	Refer To Test Graph		Pass
				2xRU996	Left	12	Refer To Test Graph		Pass



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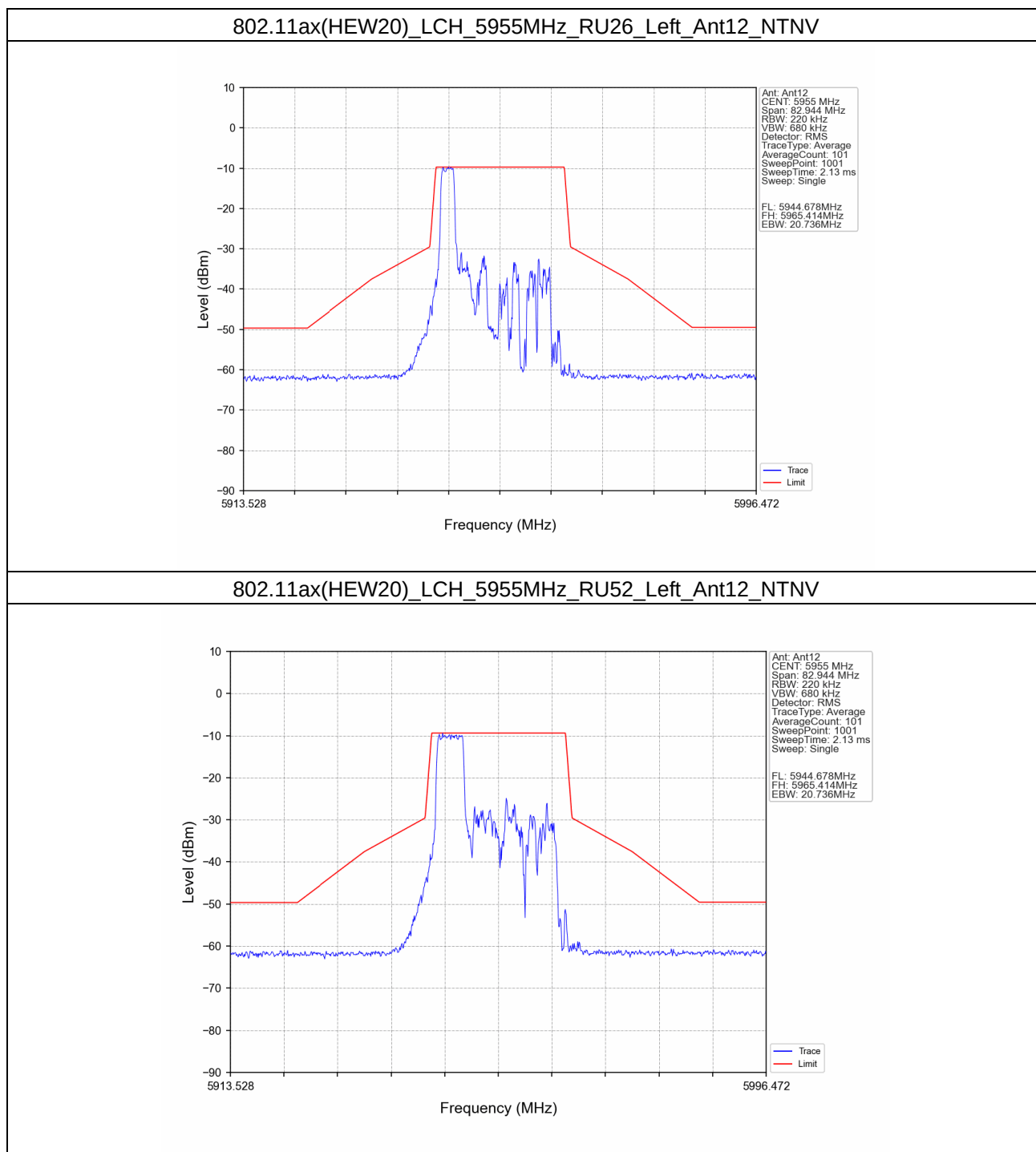
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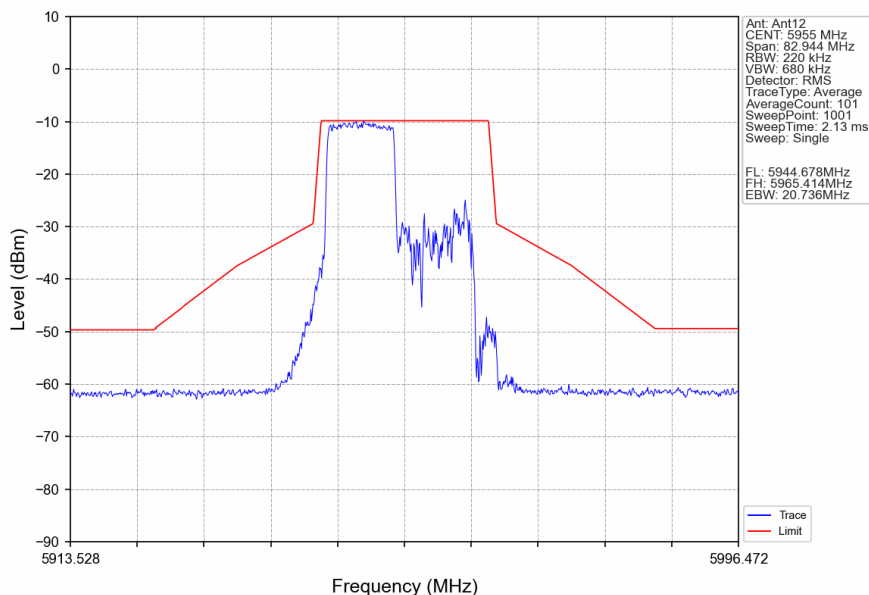
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6.2 Test Graph

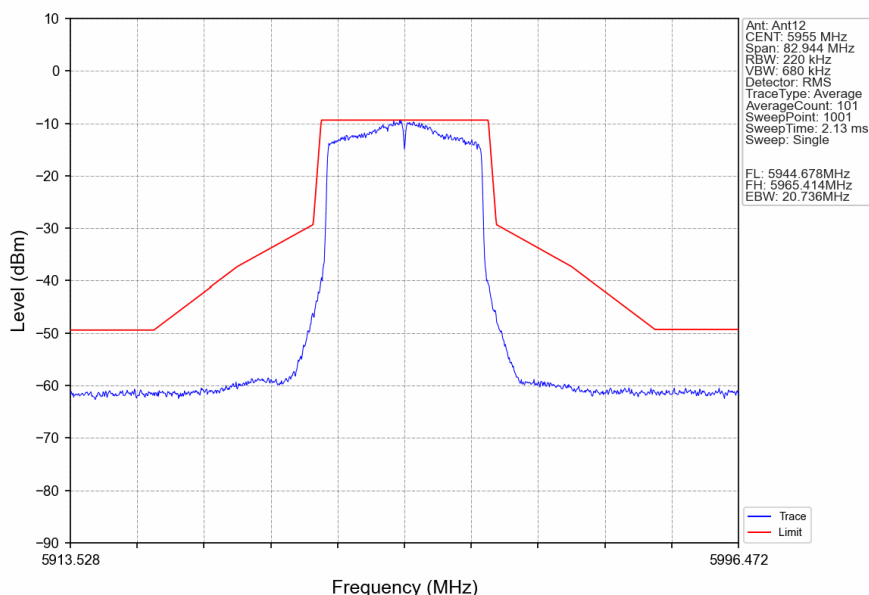
6.2.1 EMask



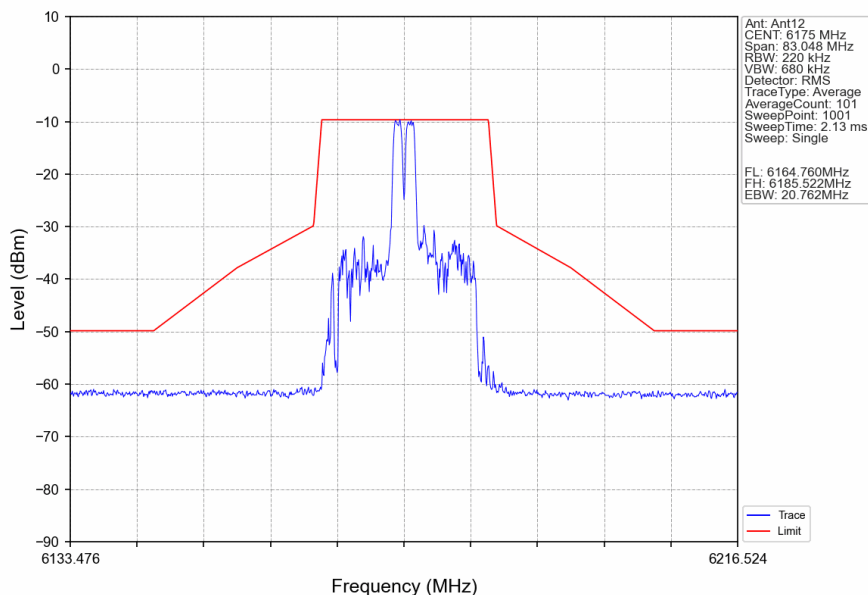
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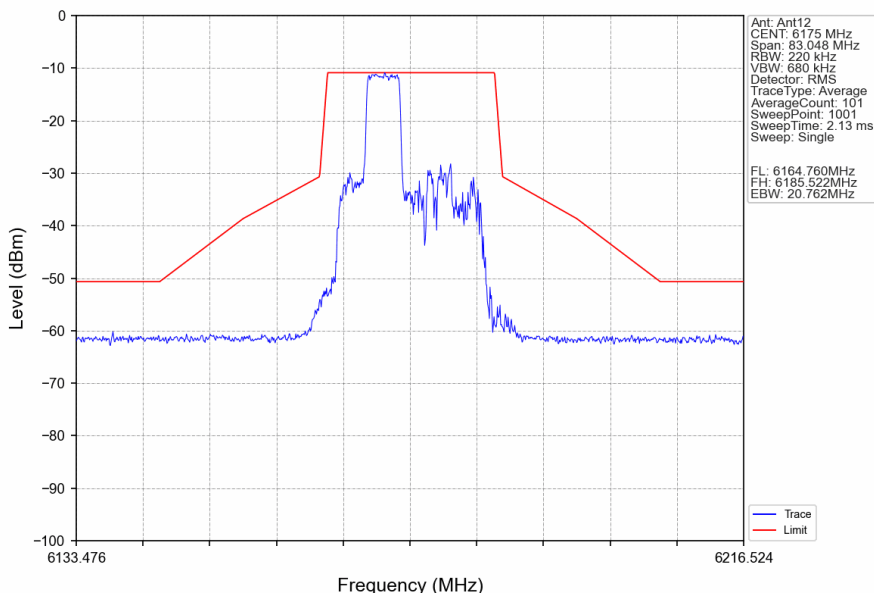
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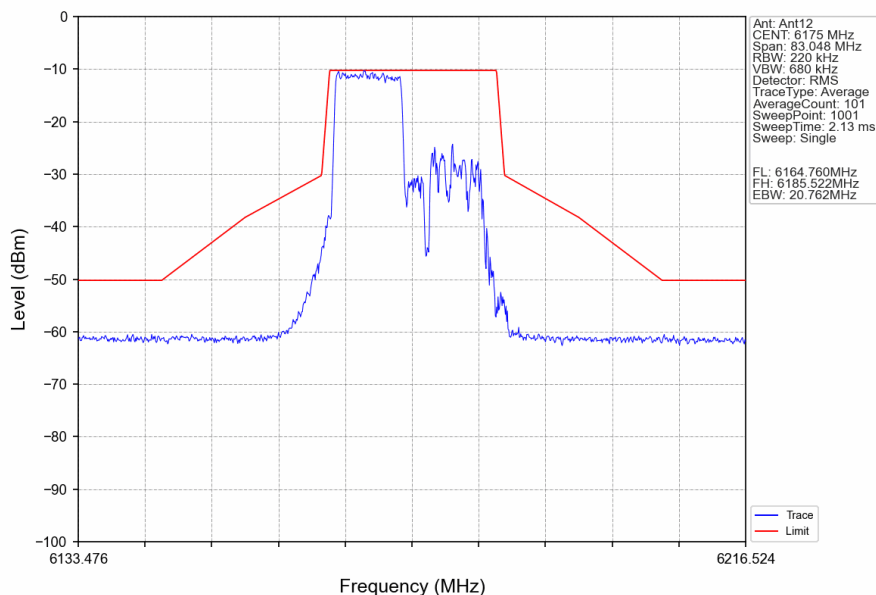
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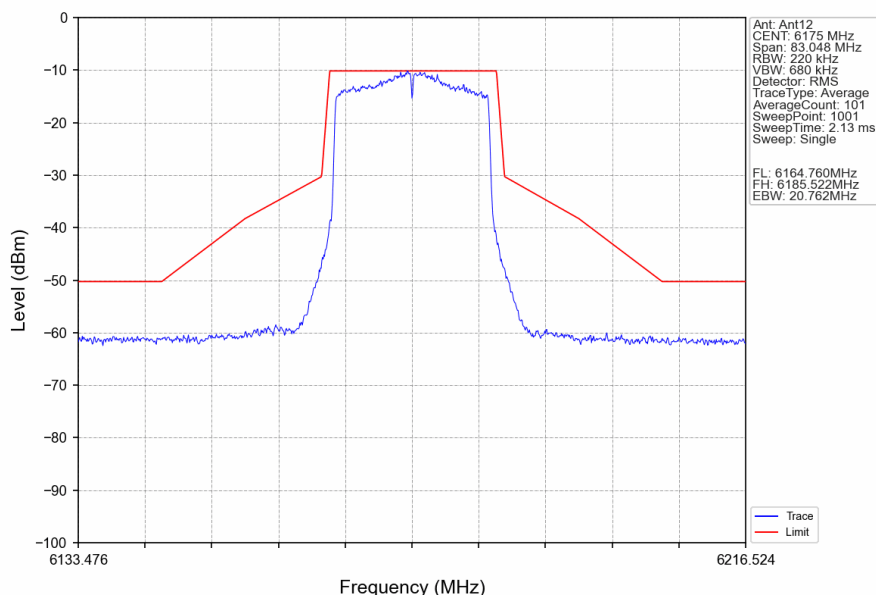
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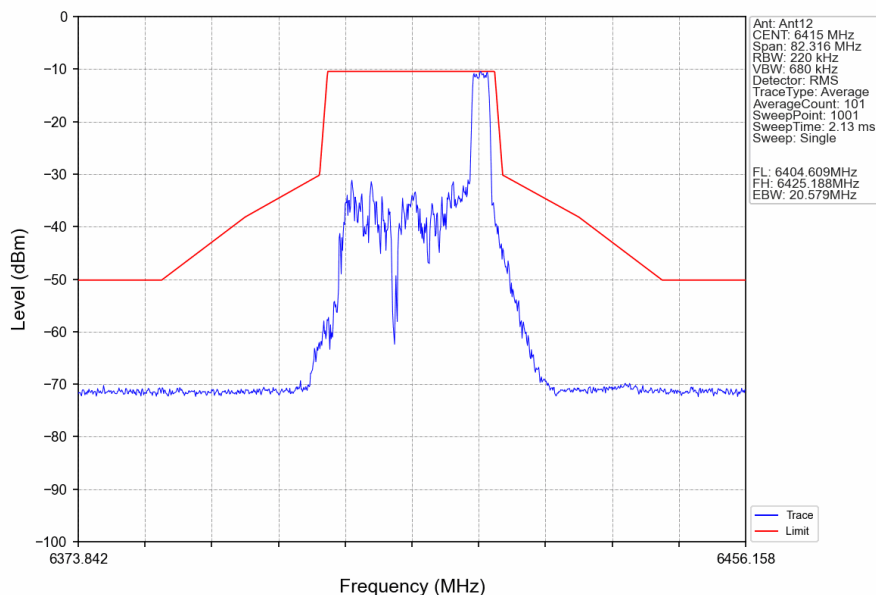
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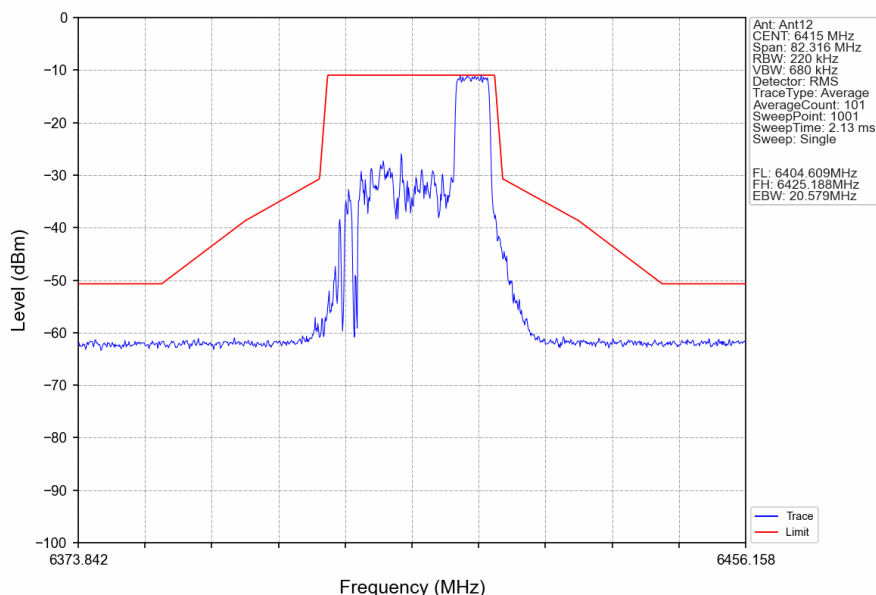
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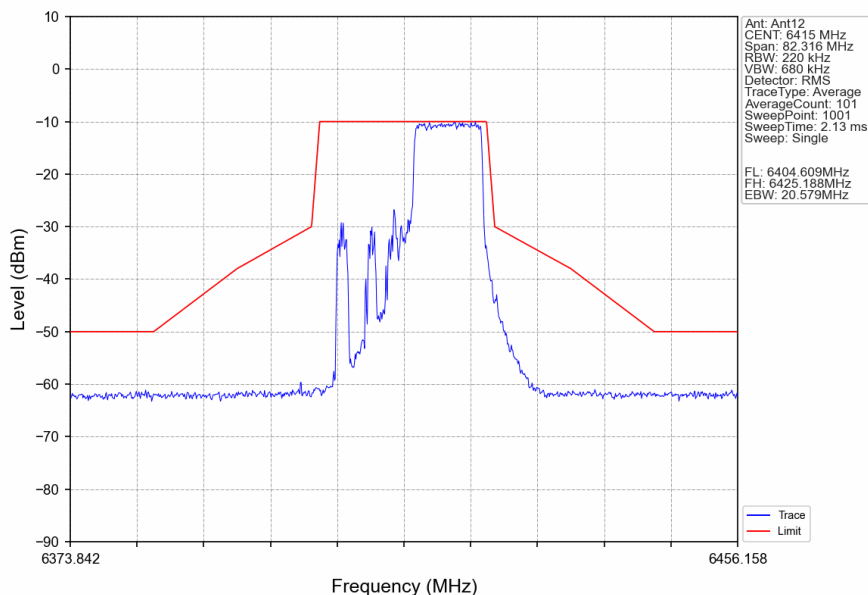
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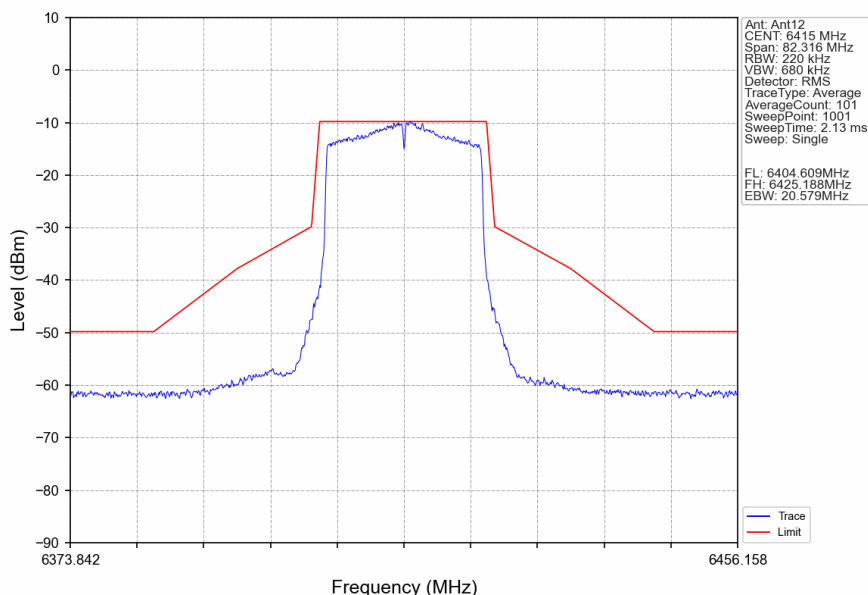
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802.11ax(HEW20)_HCH_6415MHz_RU106_Right_Ant12_NTNV



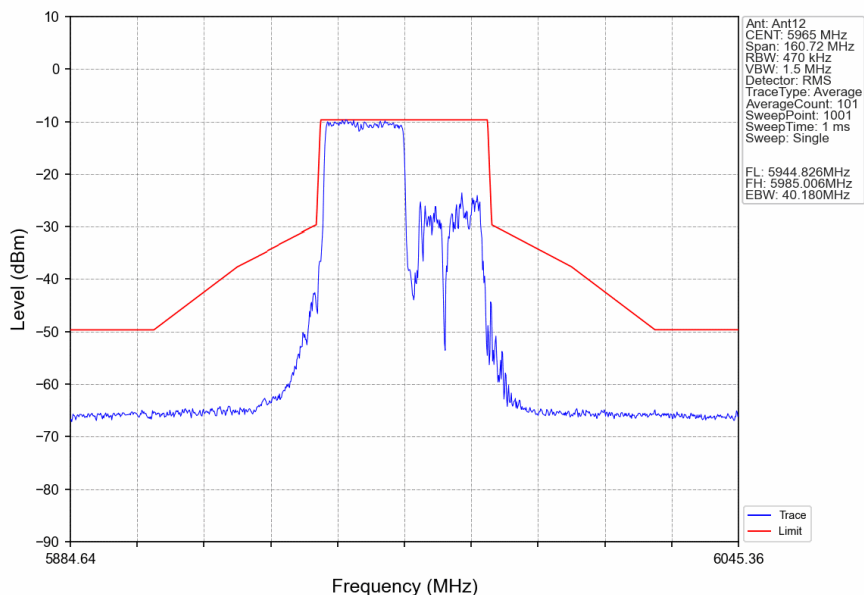
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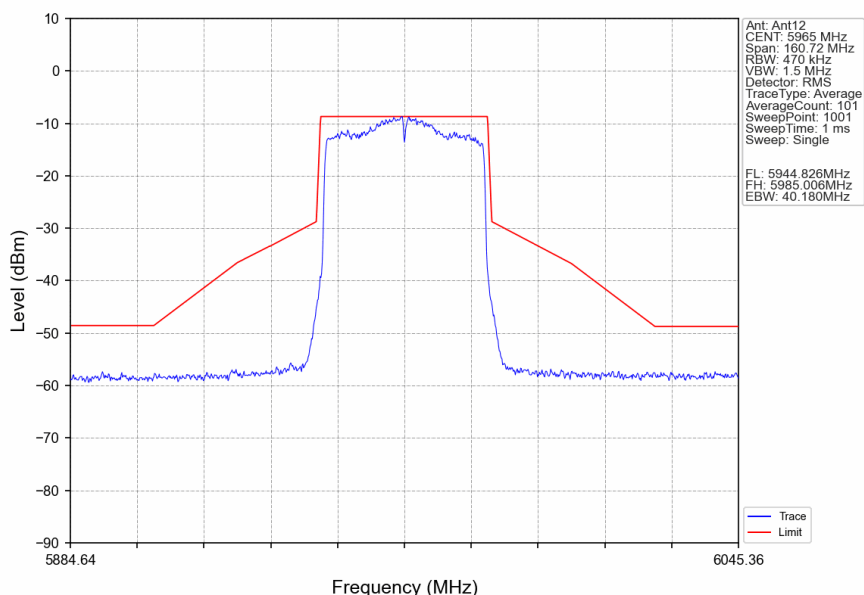
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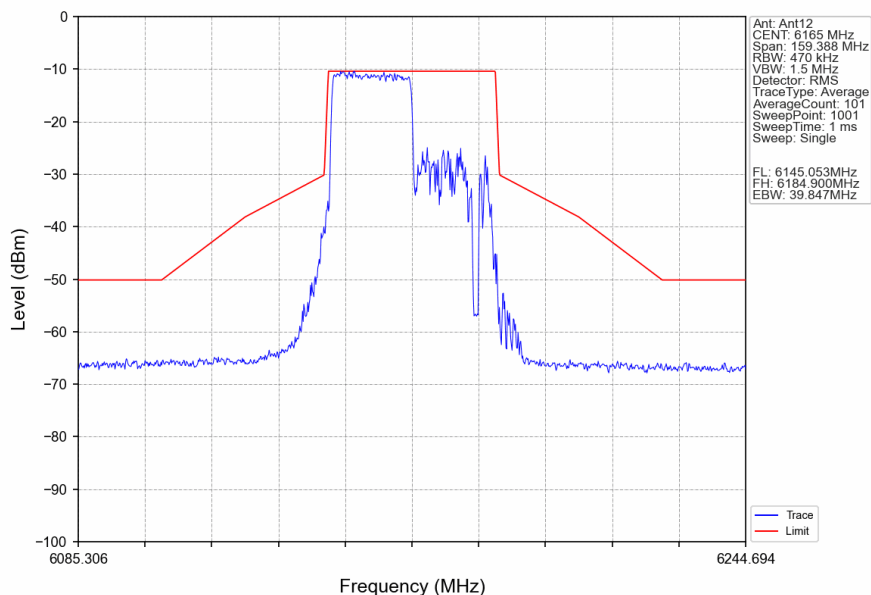
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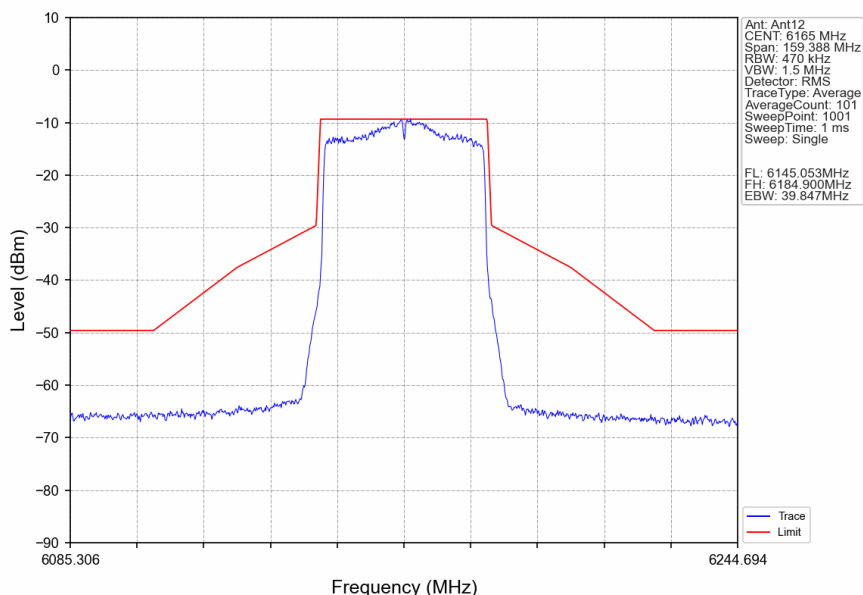
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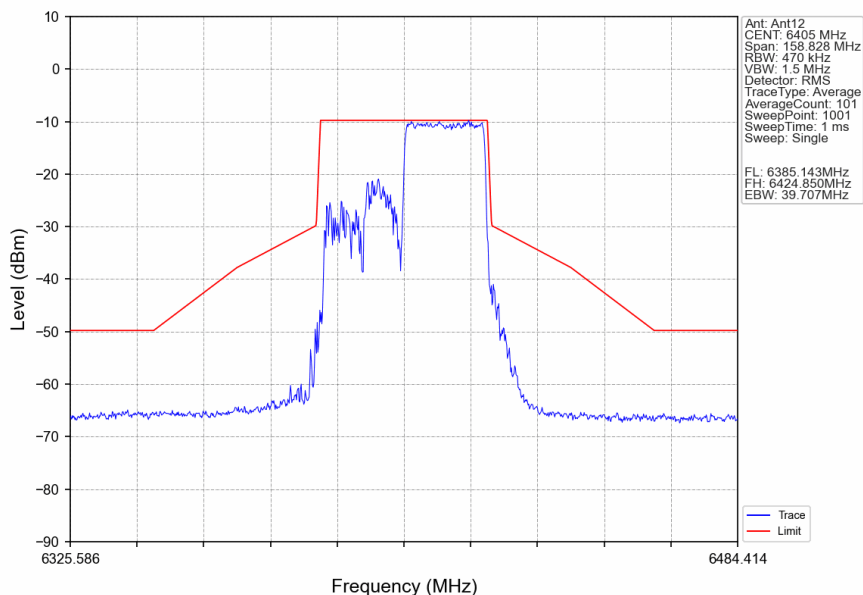
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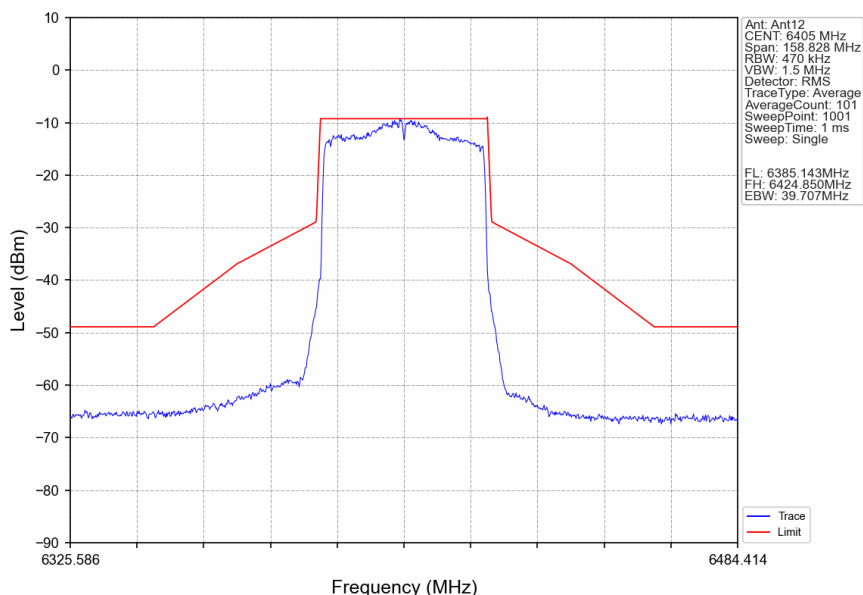
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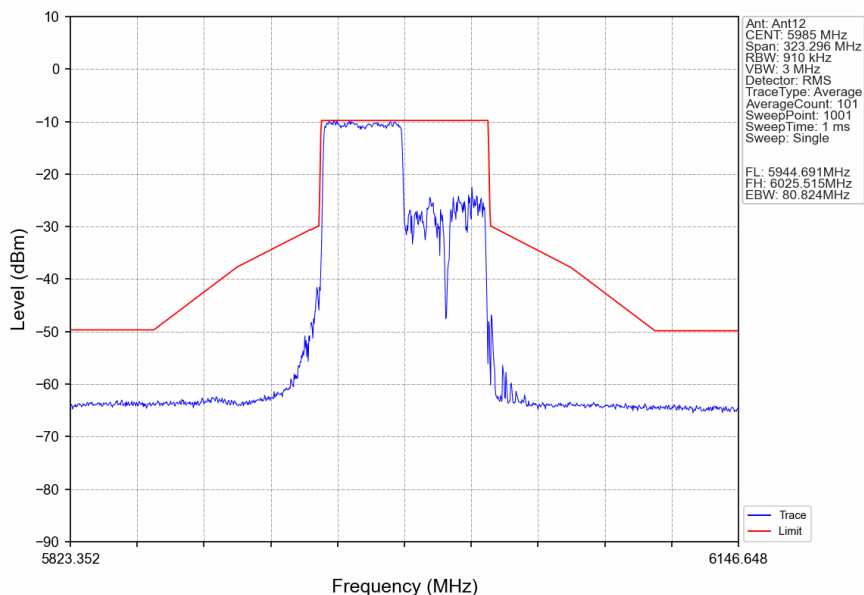
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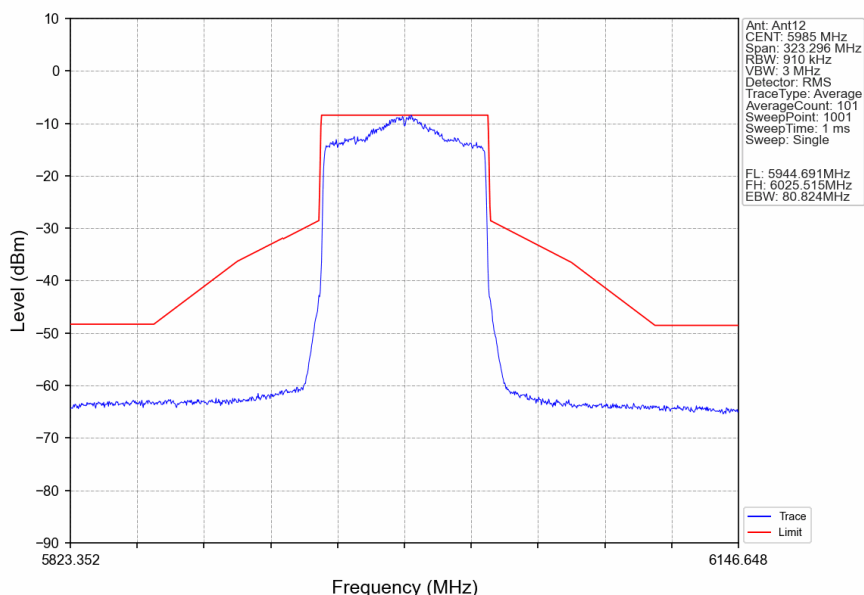
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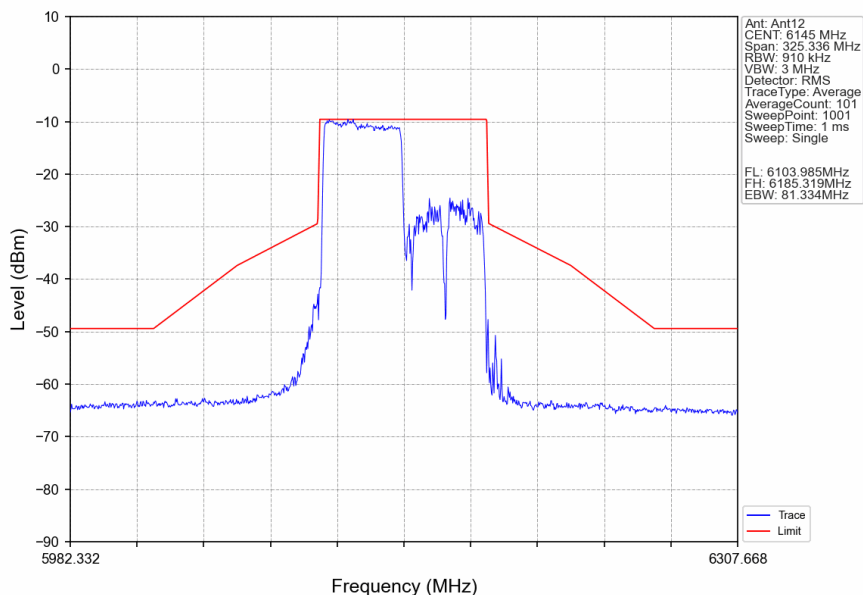
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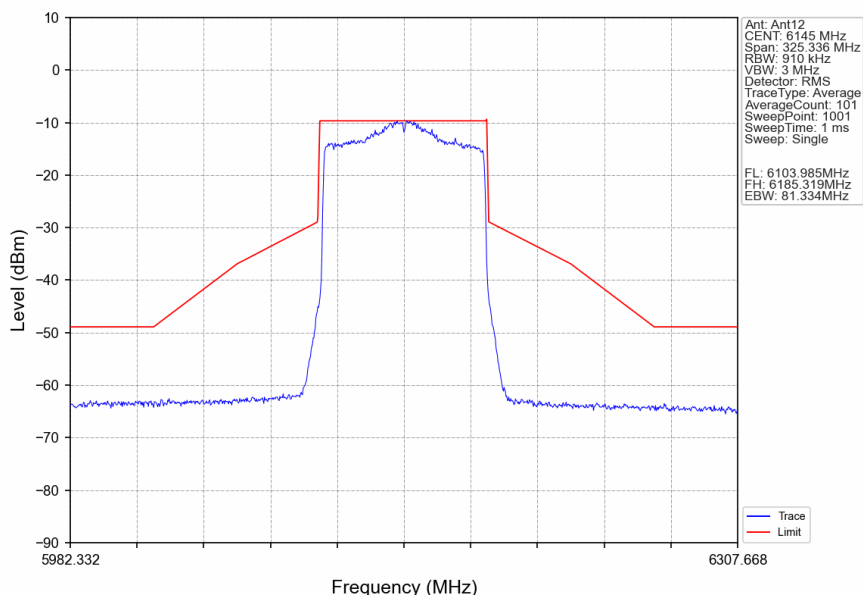
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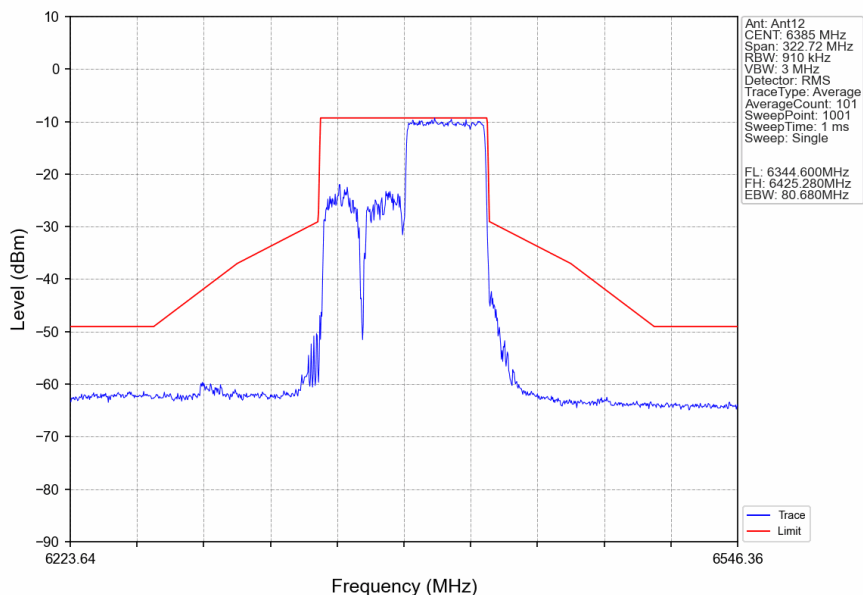
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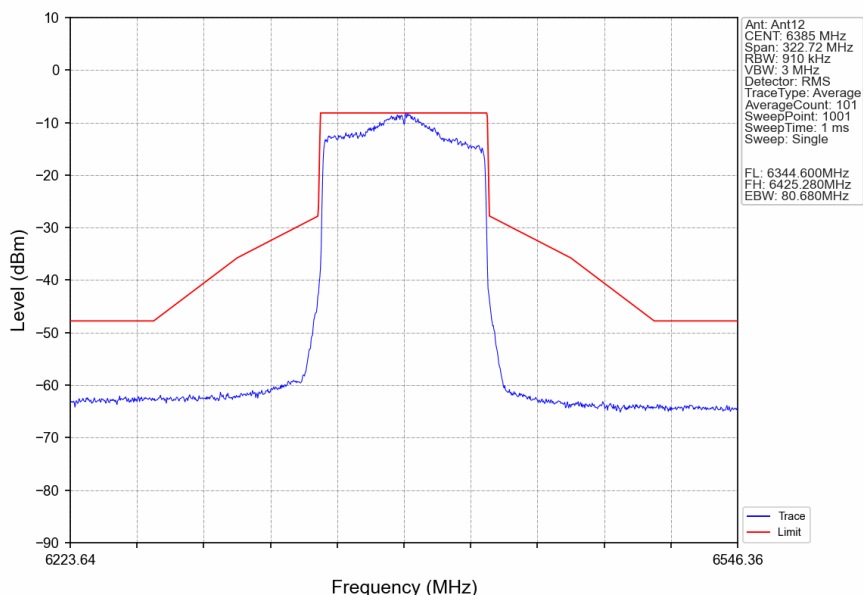
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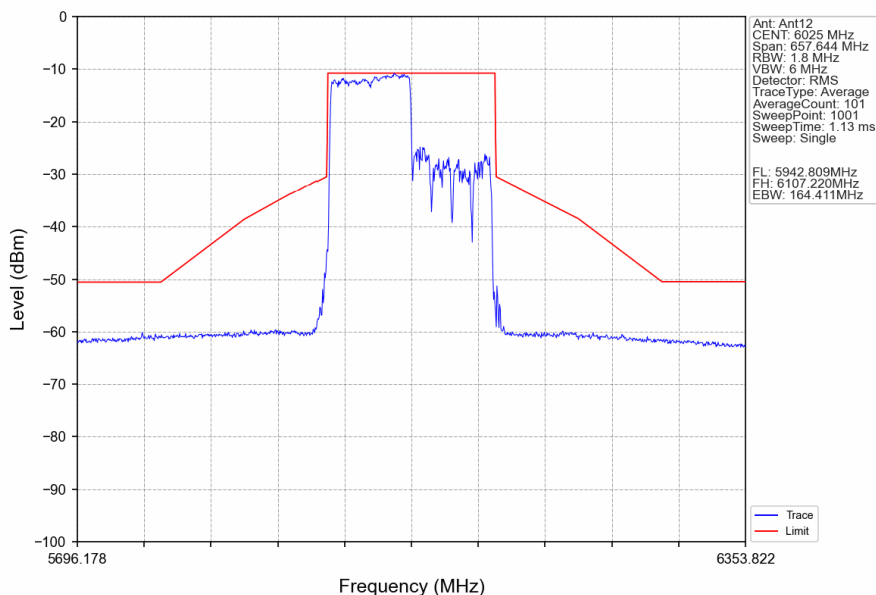
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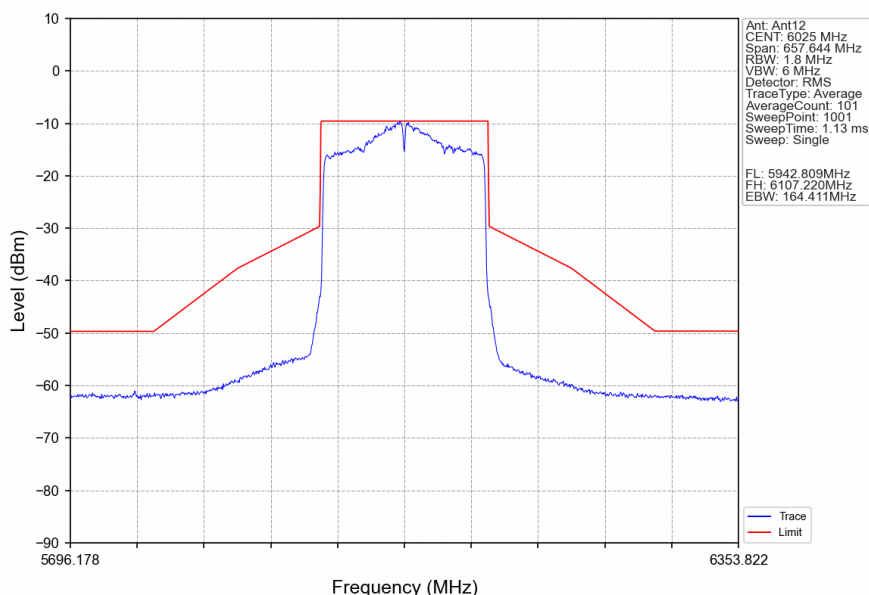
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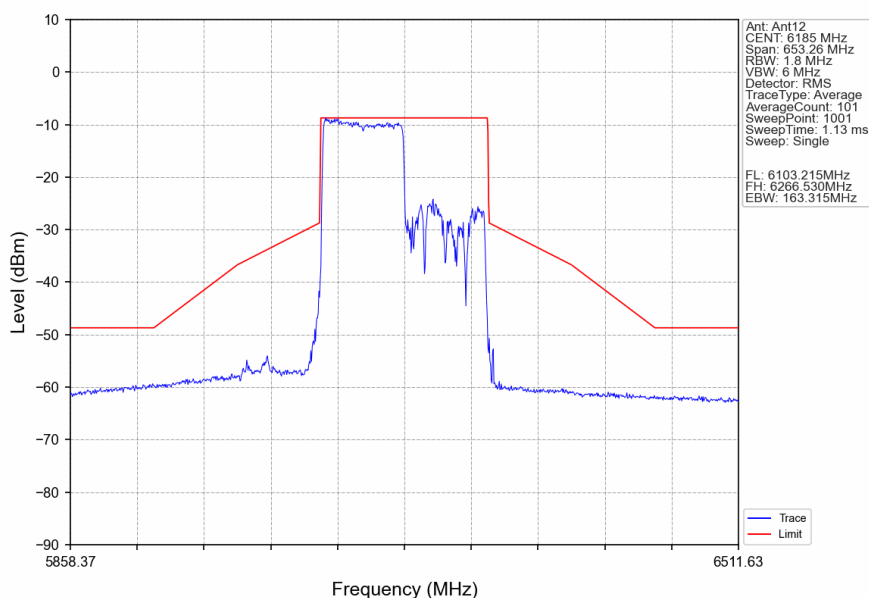
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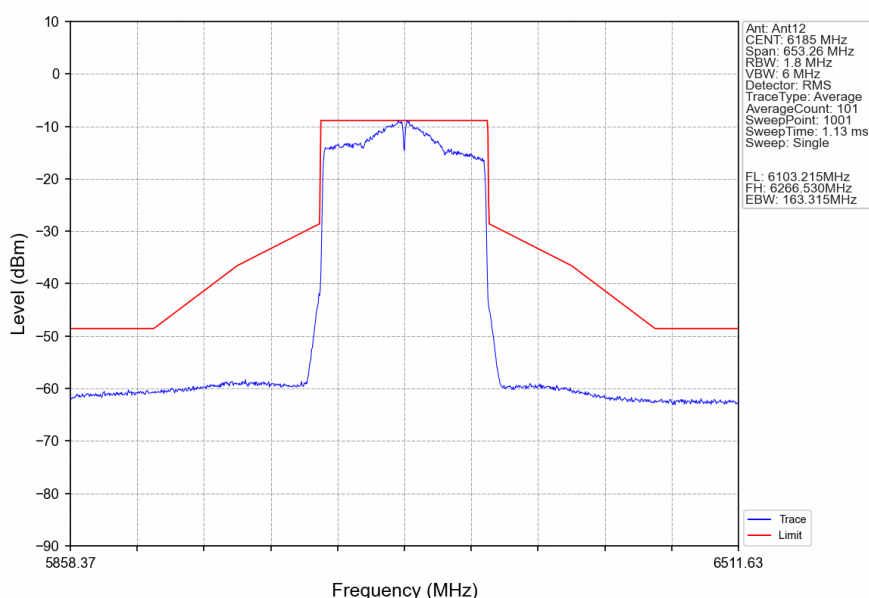
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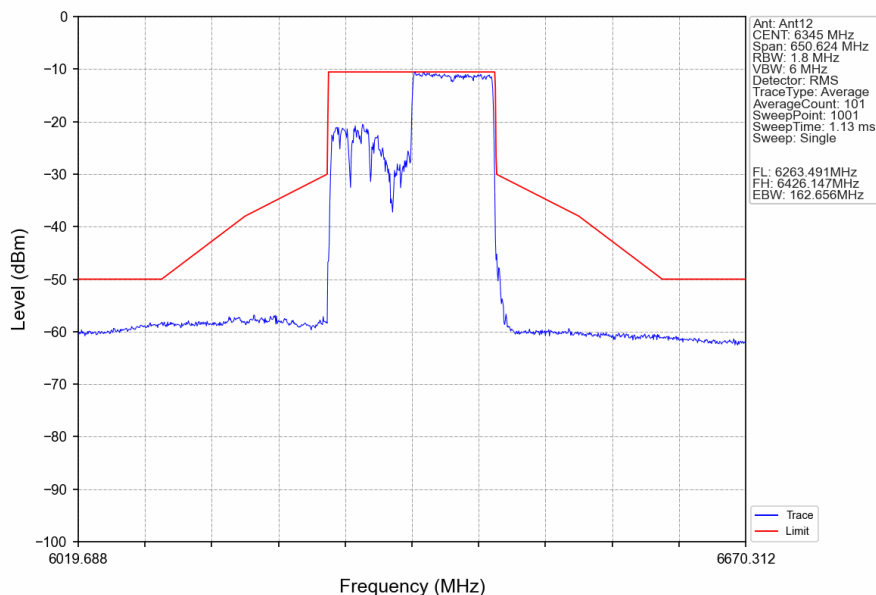
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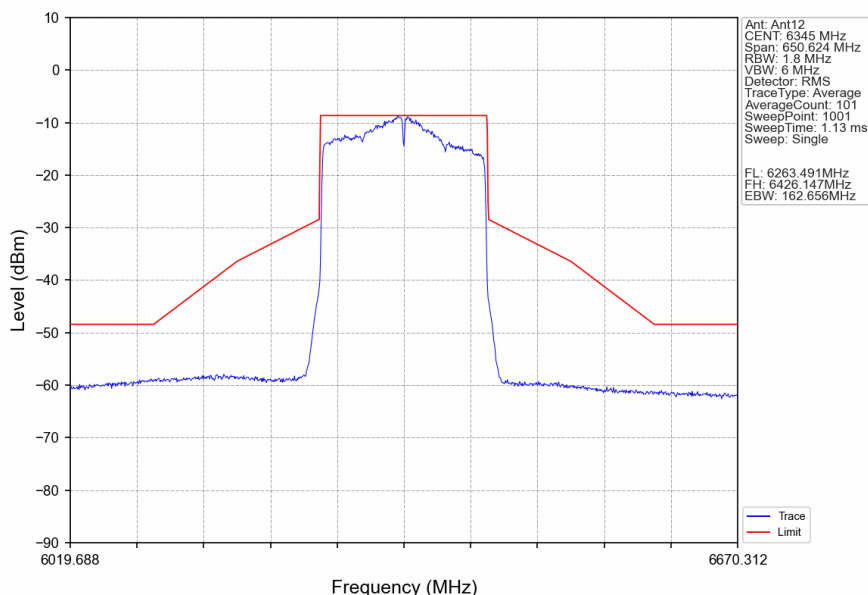
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802.11ax(HEW160)_HCH_6345MHz_RU996_Right_Ant12_NTNV

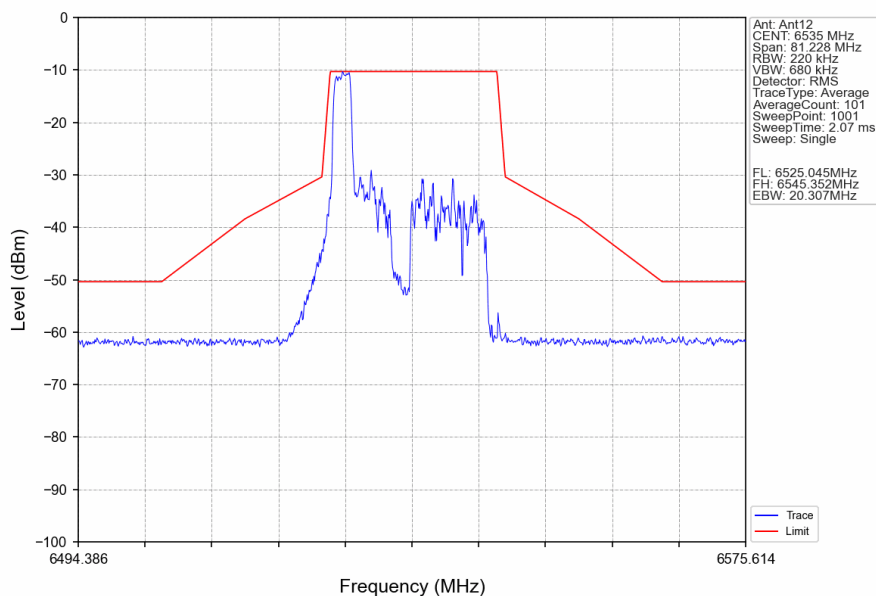


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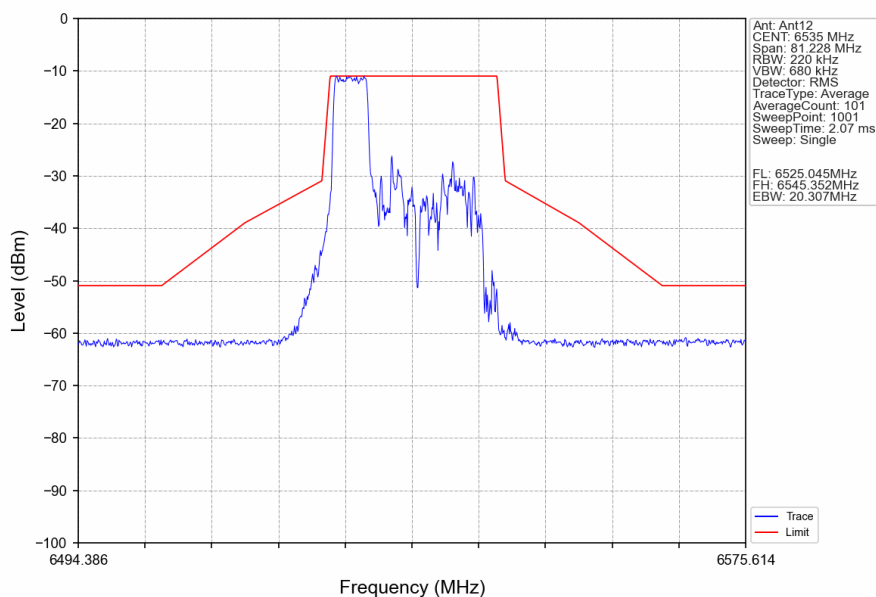


6.2.2 EMask

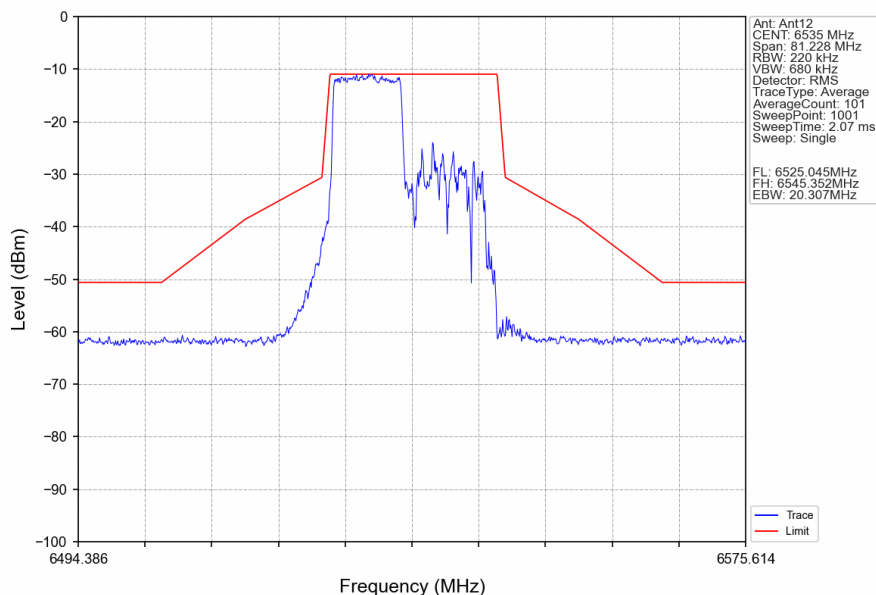
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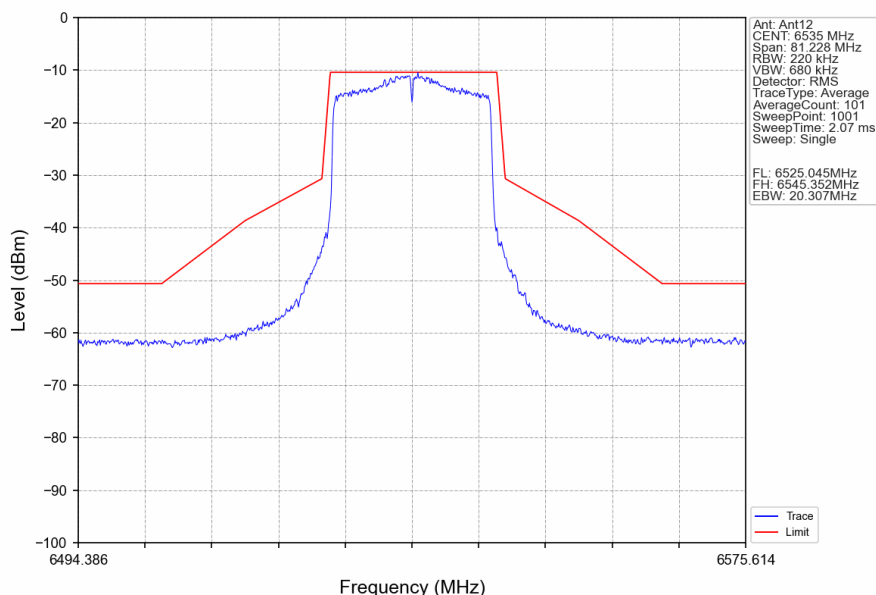
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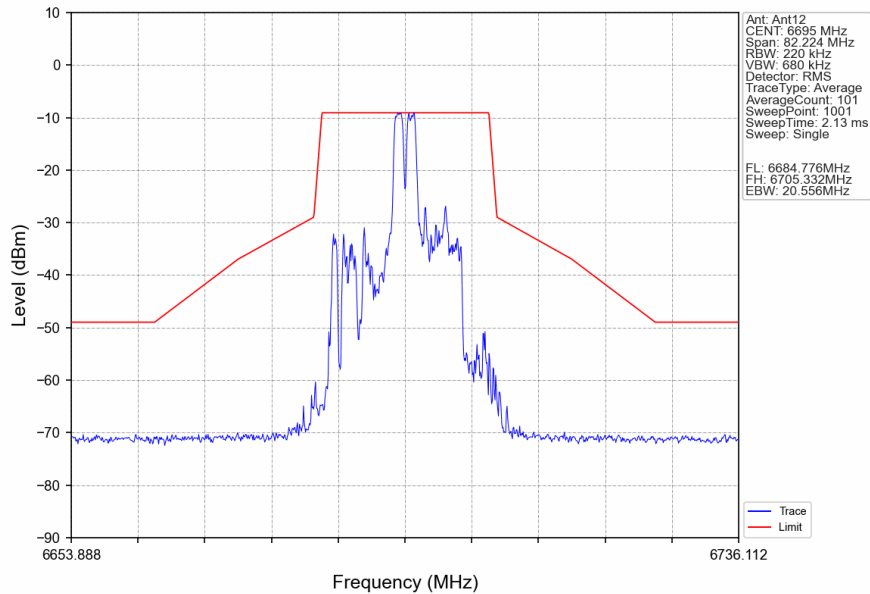
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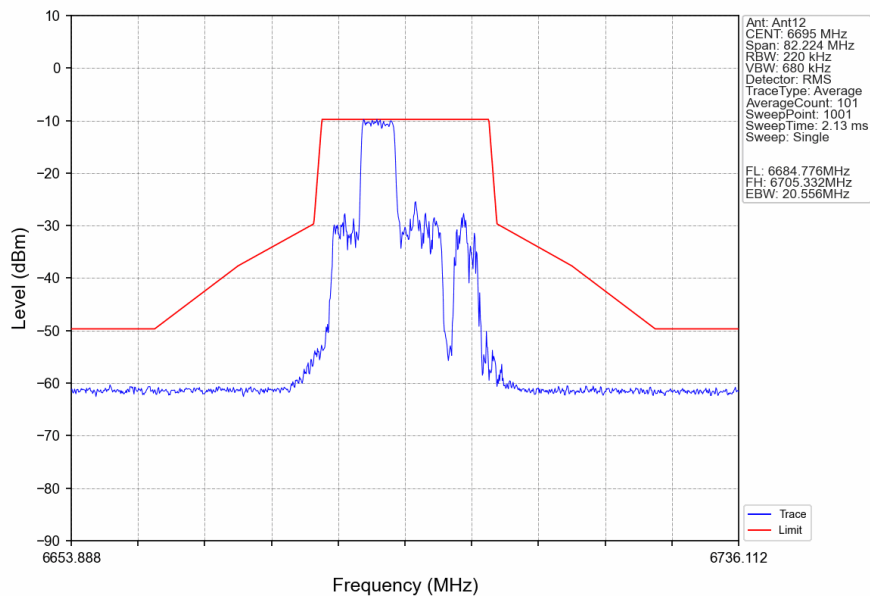
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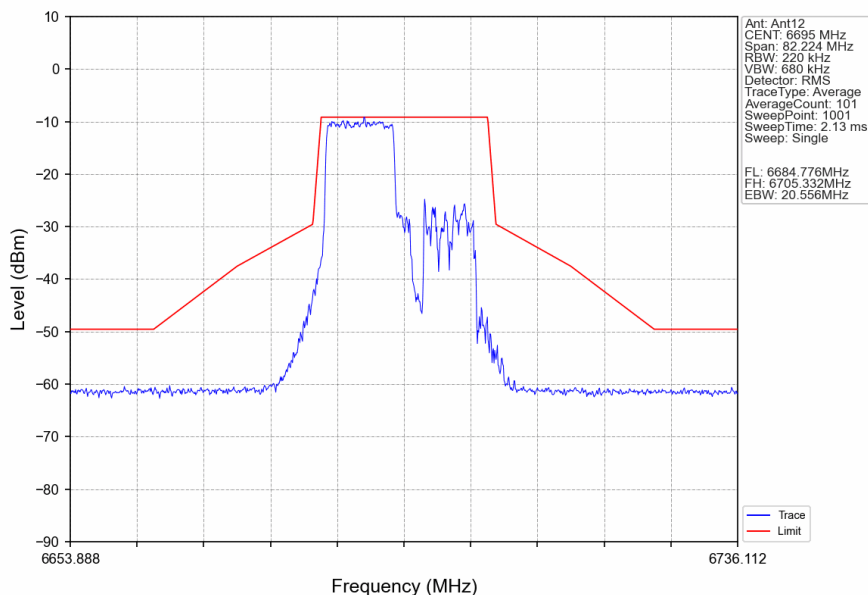
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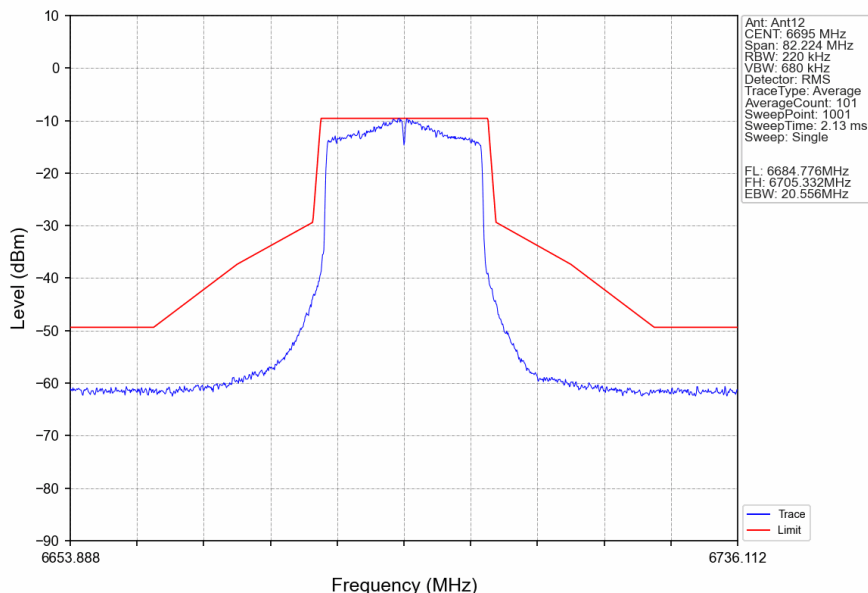
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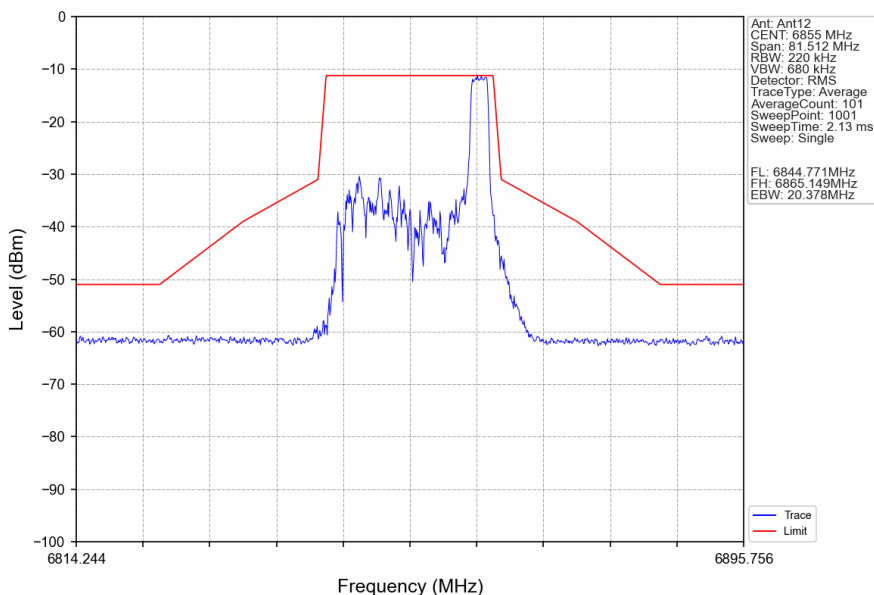
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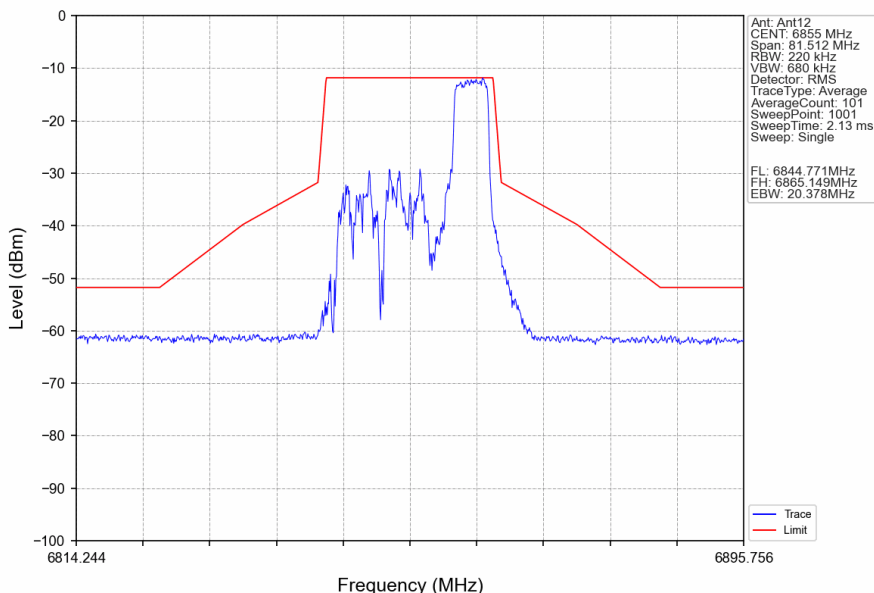
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802.11ax(HEW20)_HCH_6855MHz_RU26_Right_Ant12_NTNV



802.11ax(HEW20)_HCH_6855MHz_RU52_Right_Ant12_NTNV



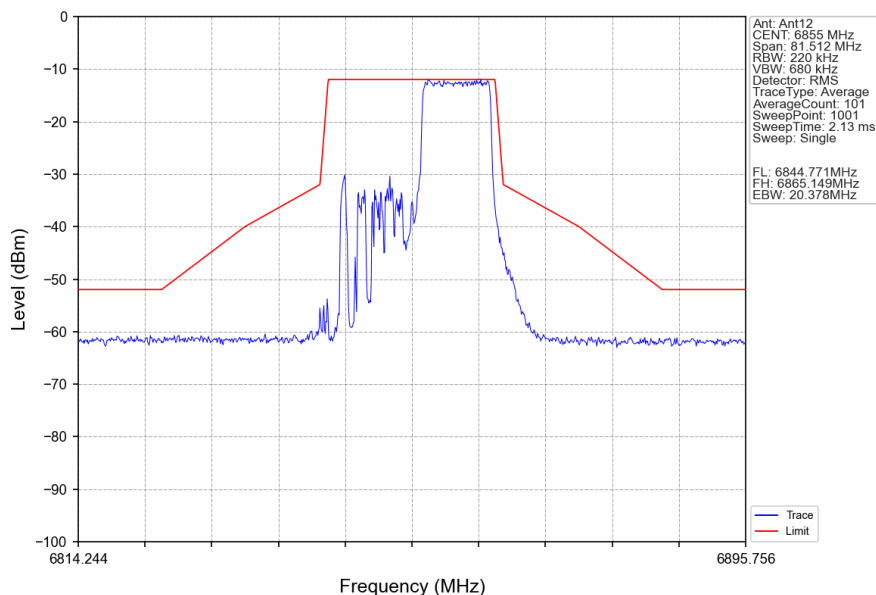
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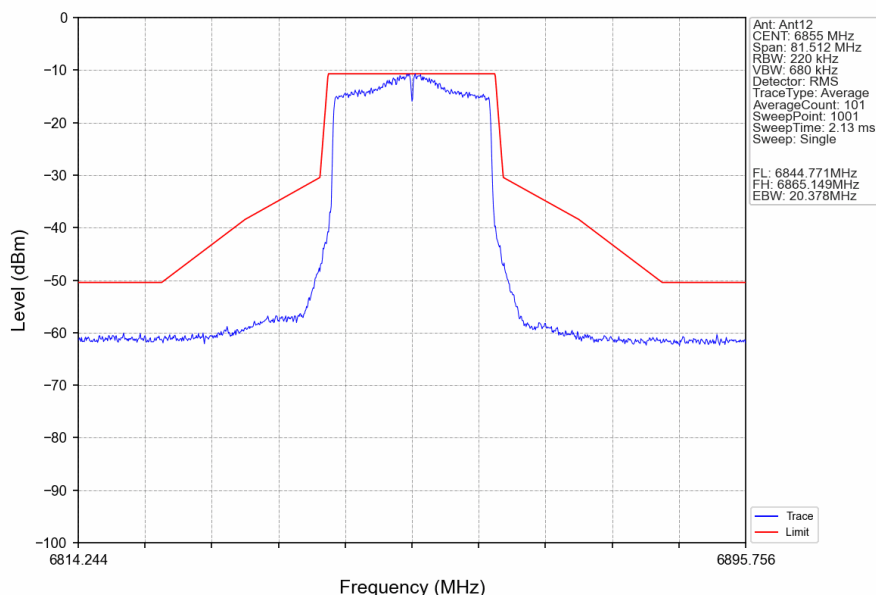
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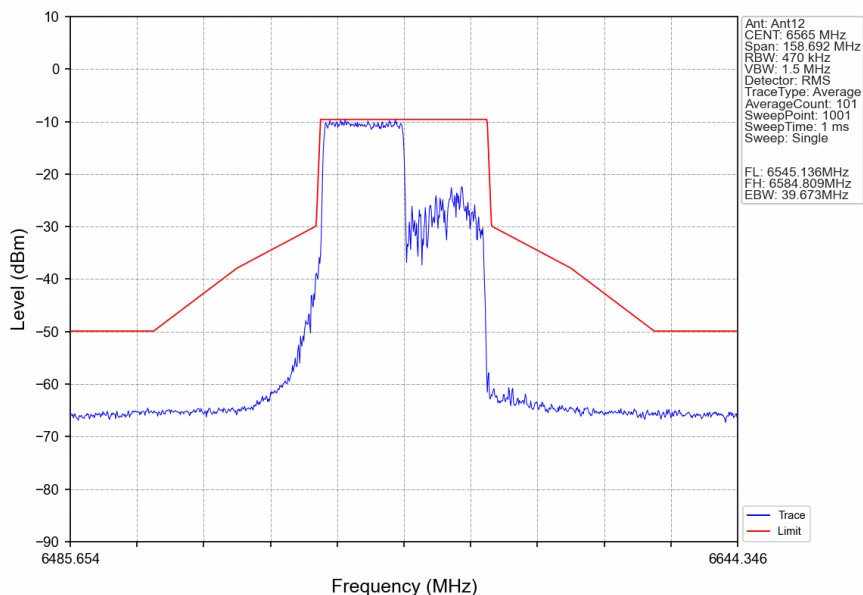
802.11ax(HEW20)_HCH_6855MHz_RU106_Right_Ant12_NTNV



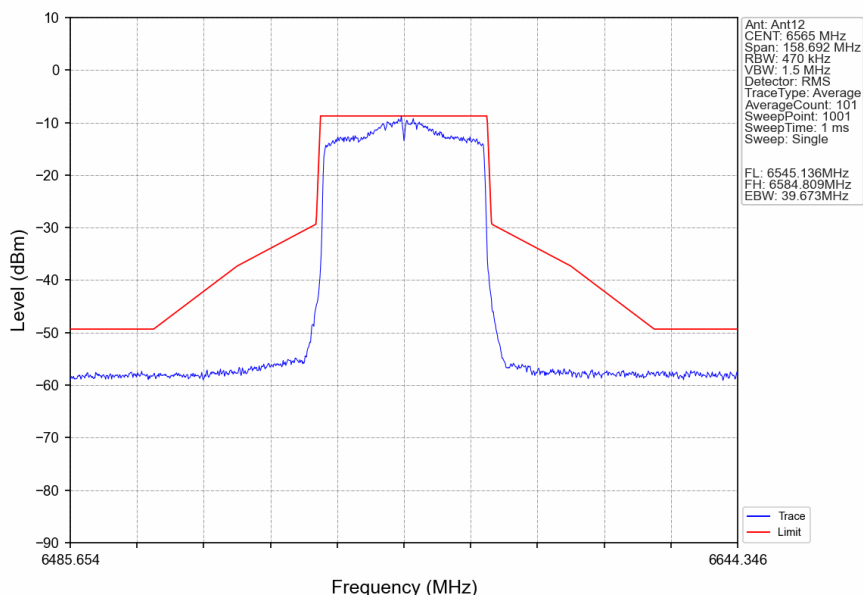
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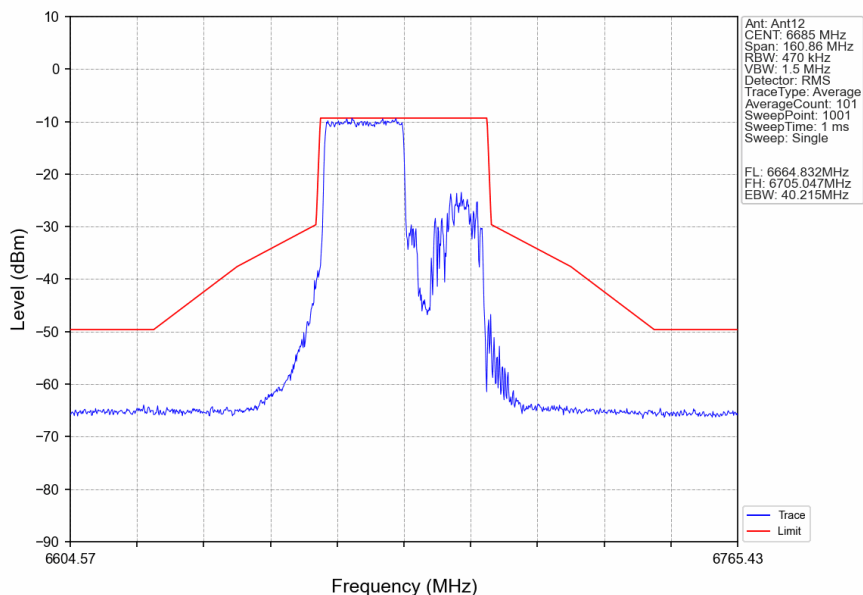
802.11ax(HEW40)_LCH_6565MHz_RU242_Left_Ant12_NTNV



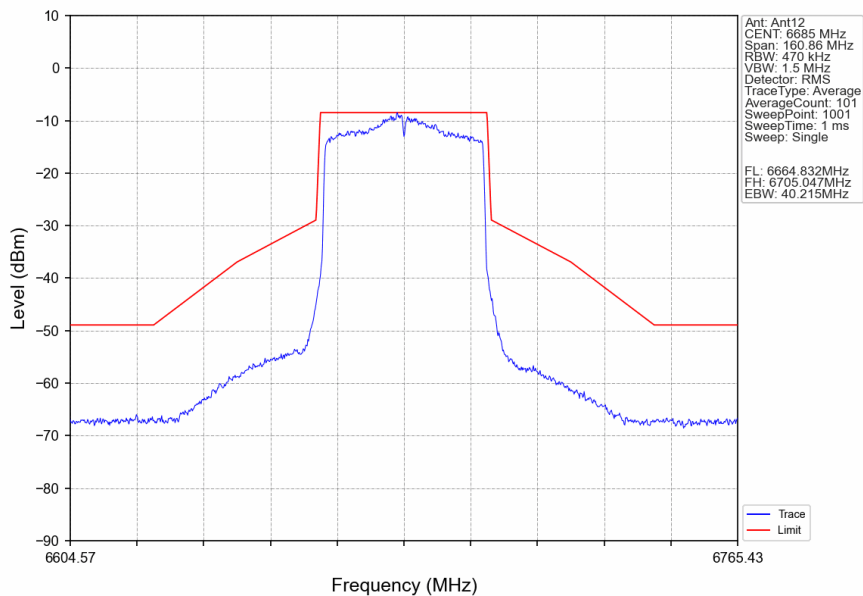
802.11ax(HEW40)_LCH_6565MHz_RU484_Left_Ant12_NTNV



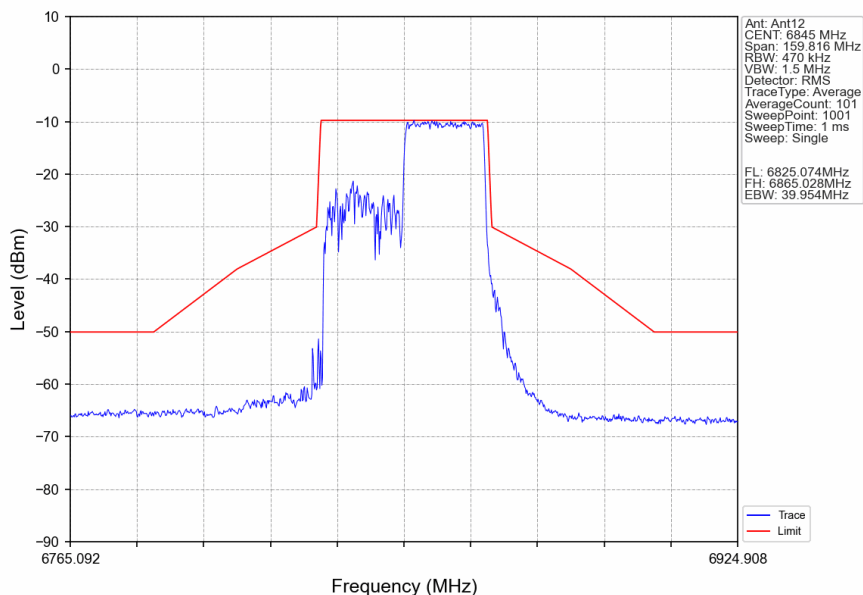
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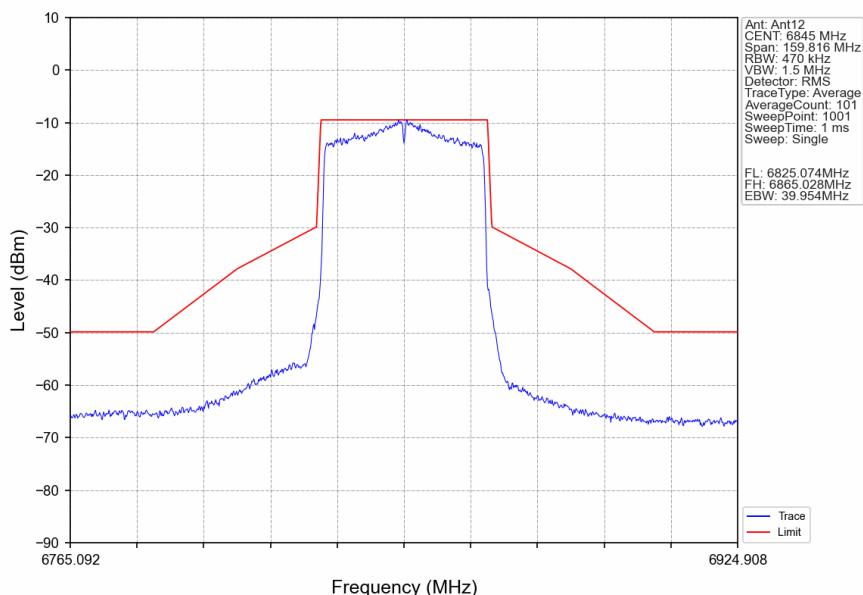
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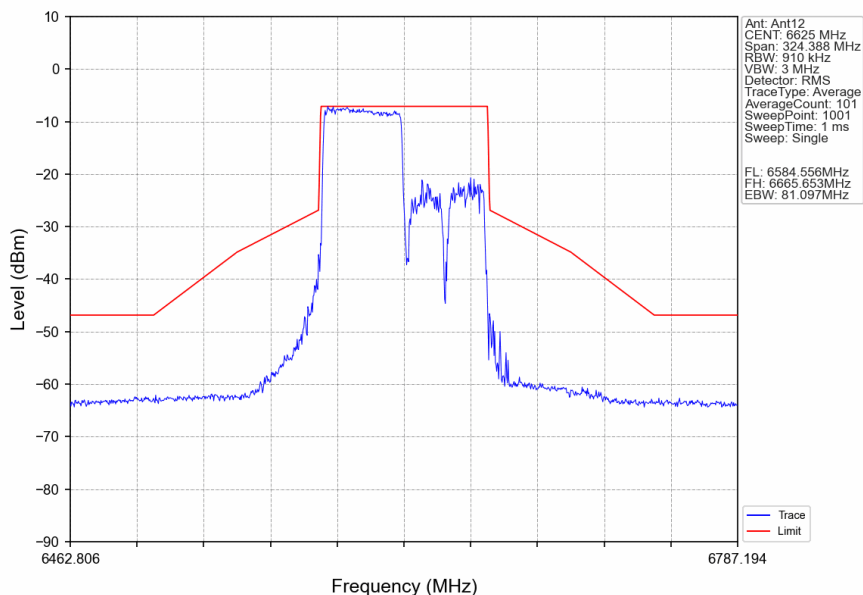
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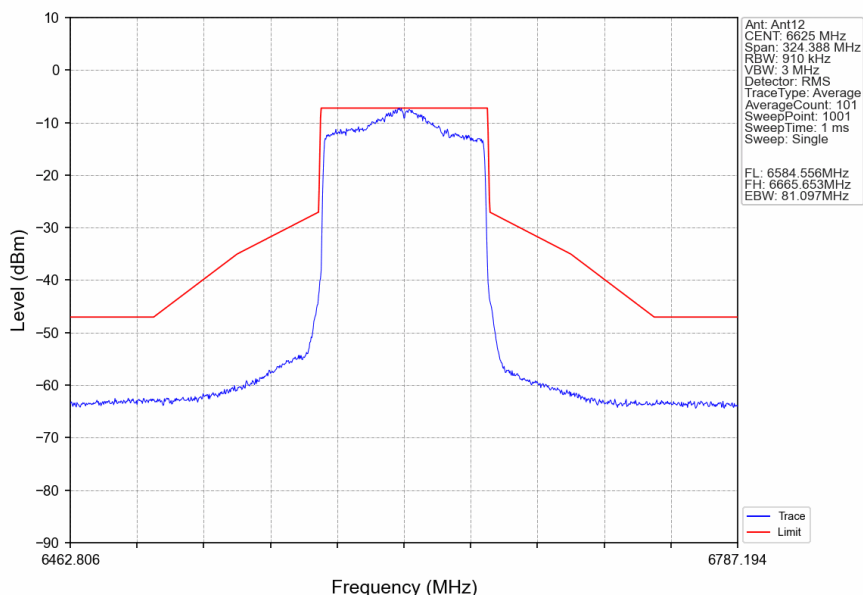
802.11ax(HEW40)_HCH_6845MHz_RU484_Left_Ant12_NTNV



802.11ax(HEW80)_LCH_6625MHz_RU484_Left_Ant12_NTNV



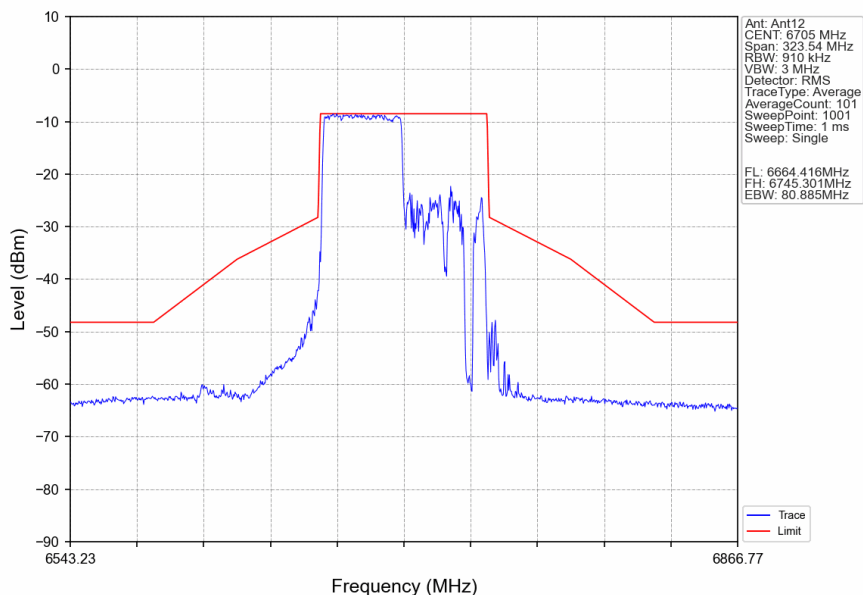
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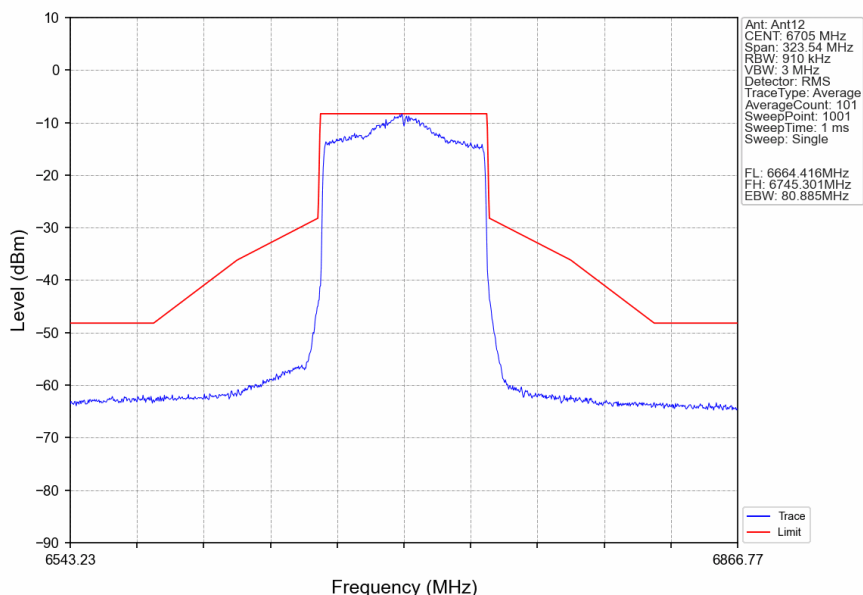
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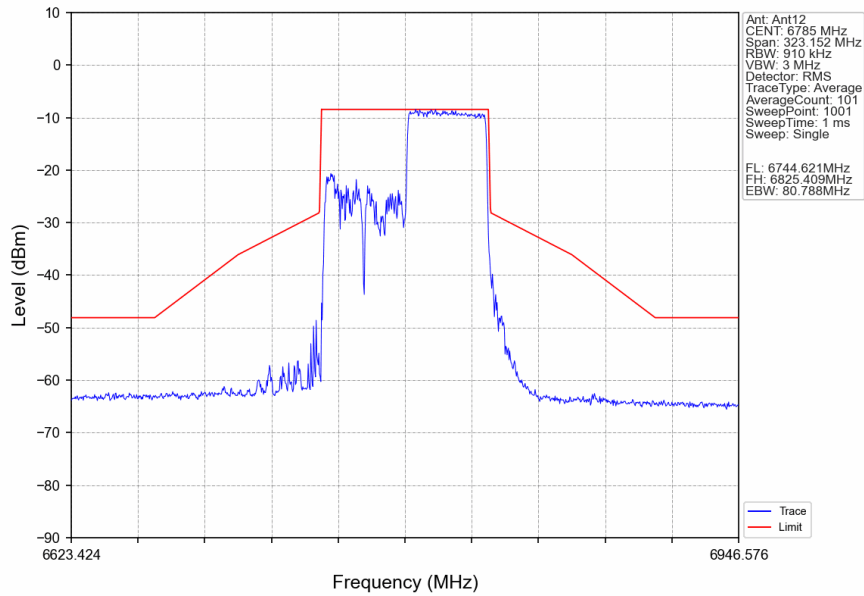
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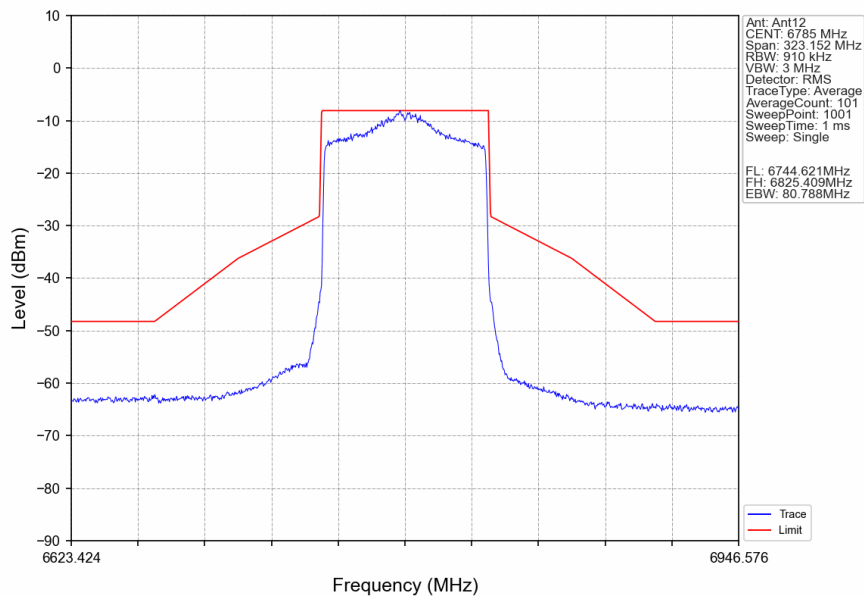
802.11ax(HEW80)_MCH_6705MHz_RU996_Left_Ant12_NTNV



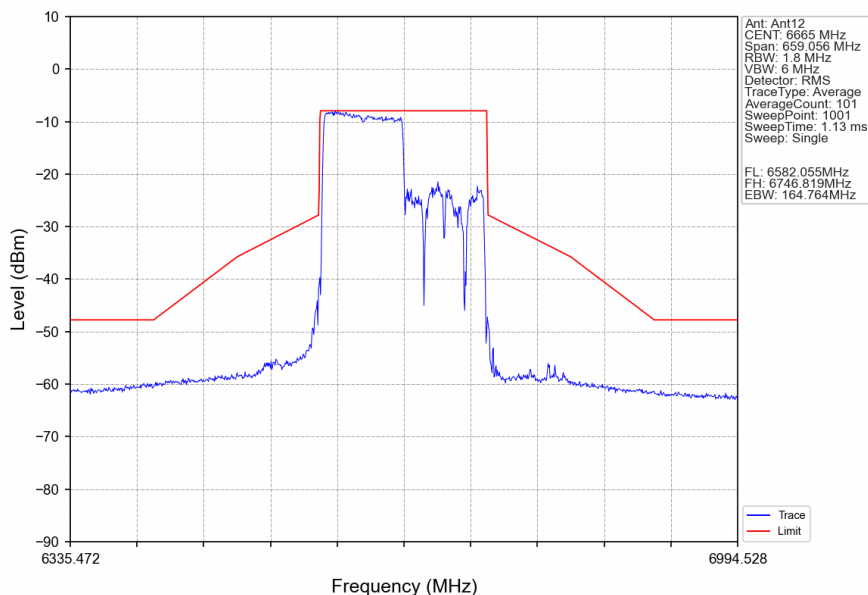
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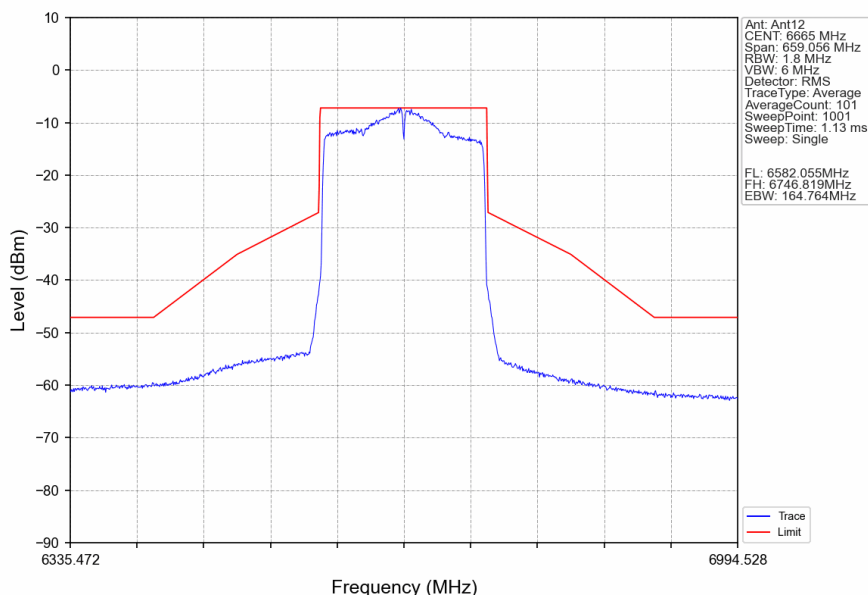
802.11ax(HEW80)_HCH_6785MHz_RU996_Left_Ant12_NTNV



802.11ax(HEW160)_MCH_6665MHz_RU996_Left_Ant12_NTNV



802.11ax(HEW160)_MCH_6665MHz_2xRU996_Left_Ant12_NTNV



7. Contention Based Protocol

7.1.1 Duty Cycle_Band 5_Ant11

Ant11			
Mode	Freq. (MHz)	Incumbent Frequency (MHz)	Duty Cycle (%)
802.11ax (HEW20)	6415	6415.000	56.08
802.11ax (HEW160)	6185	6110.000	57.76
		6185.000	57.76
		6260.000	57.76

7.1.2 Contention Based Protocol_Detection Power_Band 5_Ant11

Ant11								
Mode	Freq. (MHz)	Incumbent Frequency (MHz)	EUT Status	Detected Power			Limit (dBm)	Verdict
				AWGN Power (dBm)	Antenna Gain (dBi)	Adjusted Power (dBm)		
802.11ax (HEW20)	6415	6415.000	OFF	-70.87	-4.23	-66.64	<=-62	Pass
			Minimal	-72.81	-4.23	-68.58	<=-62	Pass
			ON	-75.59	-4.23	-71.36	<=-62	Pass
802.11ax (HEW160)	6185	6110.000	OFF	-67.18	-4.23	-62.95	<=-62	Pass
			Minimal	-69.28	-4.23	-65.05	<=-62	Pass
			ON	-71.24	-4.23	-67.01	<=-62	Pass
		6185.000	OFF	-66.53	-4.23	-62.30	<=-62	Pass
			Minimal	-68.51	-4.23	-64.28	<=-62	Pass
			ON	-70.48	-4.23	-66.25	<=-62	Pass
		6260.000	OFF	-67.80	-4.23	-63.57	<=-62	Pass
			Minimal	-69.80	-4.23	-65.57	<=-62	Pass
			ON	-71.64	-4.23	-67.41	<=-62	Pass



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7.1.3 Contention Based Protocol_Detection Probability_Band 5_Ant11

Ant11														
Mode	Freq. (MHz)	Incumbent Freq. (MHz)	1	2	3	4	5	6	7	8	9	10	Detected Probability (%)	Verdict
													Result	
802.11ax (HEW20)	6415	6415.000	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	Pass
802.11ax (HEW160)	6185	6110.000	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	Pass
		6185.000	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	Pass
		6260.000	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	90	Pass
Note1: CBP Detection Trials (Y=Detection, N=No Detection)														

7.1.4 Duty Cycle_Band 7_Ant12

Ant12			
Mode	Freq. (MHz)	Incumbent Frequency (MHz)	Duty Cycle (%)
802.11ax (HEW20)	6695	6695.000	74.68
802.11ax (HEW160)	6665	6590.000	48.82
		6665.000	48.82
		6740.000	48.82

7.1.5 Contention Based Protocol_Detection Power_Band 7_Ant12

Ant12								
Mode	Freq. (MHz)	Incumbent Frequency (MHz)	EUT Status	Detected Power			Limit (dBm)	Verdict
				AWGN Power (dBm)	Antenna Gain (dBi)	Adjusted Power (dBm)		
802.11ax (HEW20)	6695	6695.000	OFF	-65.91	-3.3	-62.61	<=-62	Pass
			Minimal	-67.80	-3.3	-64.50	<=-62	Pass
			ON	-69.69	-3.3	-66.39	<=-62	Pass
802.11ax (HEW160)	6665	6590.000	OFF	-67.76	-3.3	-64.46	<=-62	Pass
			Minimal	-69.64	-3.3	-66.34	<=-62	Pass
			ON	-71.78	-3.3	-68.48	<=-62	Pass
		6665.000	OFF	-66.14	-3.3	-62.84	<=-62	Pass
			Minimal	-68.19	-3.3	-64.89	<=-62	Pass
			ON	-70.11	-3.3	-66.81	<=-62	Pass
		6740.000	OFF	-67.28	-3.3	-63.98	<=-62	Pass



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			Minimal	-69.42	-3.3	-66.12	<=-62	Pass
			ON	-71.27	-3.3	-67.97	<=-62	Pass

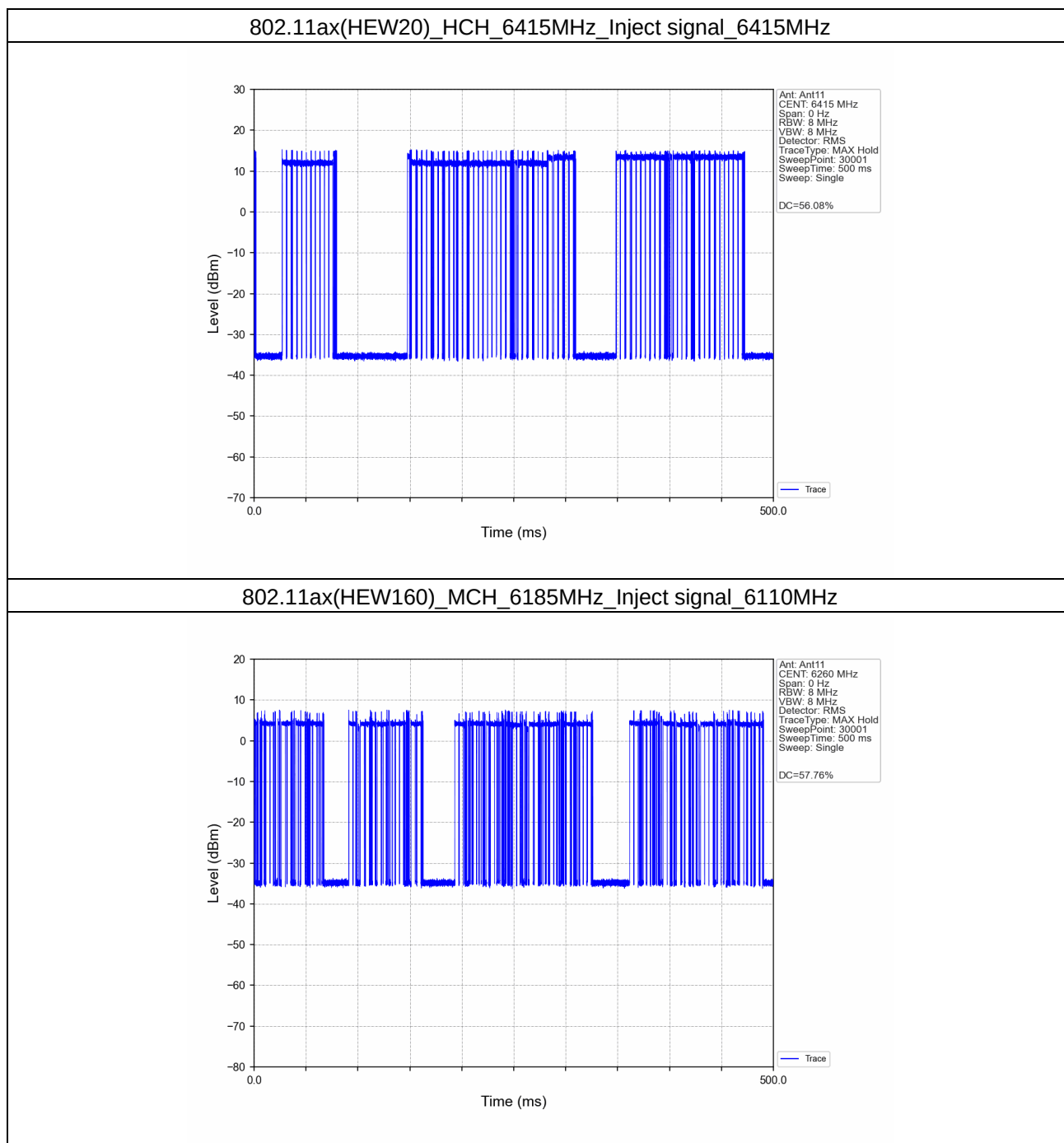
7.1.6 Contention Based Protocol_Detection Probability_Band 7_Ant12

Ant12														
Mode	Freq. (MHz)	Incumbent Freq. (MHz)	1	2	3	4	5	6	7	8	9	10	Detected Probability (%)	Verdict
													Result	
802.11ax (HEW20)	6695	6695.000	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	Pass
802.11ax (HEW160)	6665	6590.000	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	Pass
		6665.000	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	Pass
		6740.000	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	Pass

Note1: CBP Detection Trials (Y=Detection, N=No Detection)

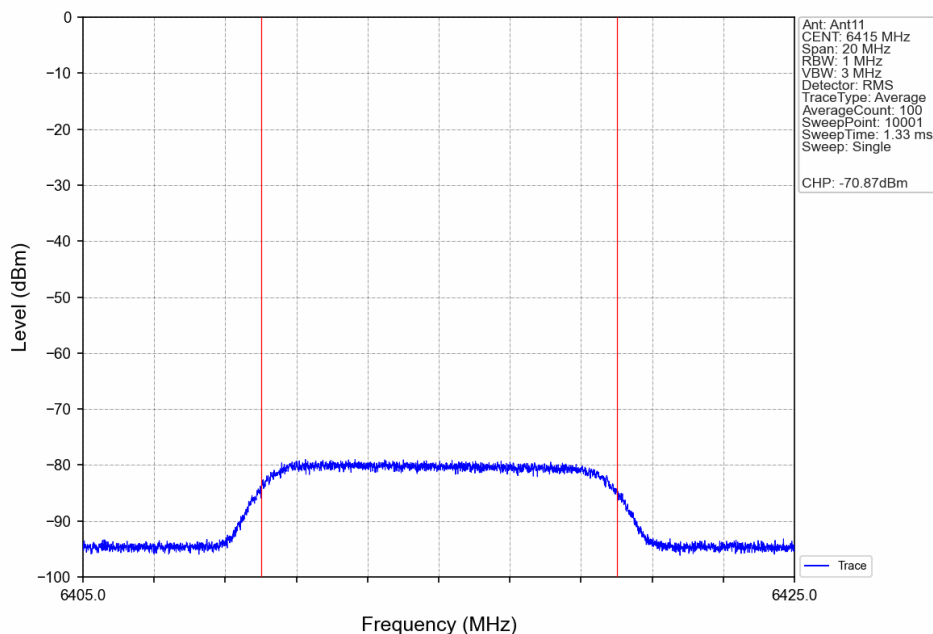
7.2 Test Graph

7.2.1 Duty Cycle_Band 5_Ant11

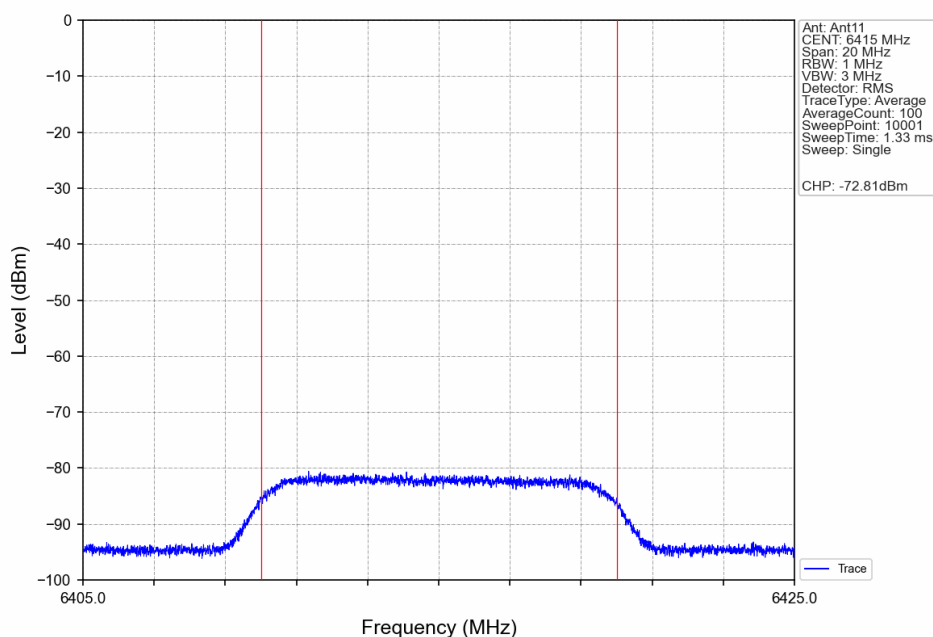


7.2.2 Contention Based Protocol_Detection Power_Band 5_Ant11

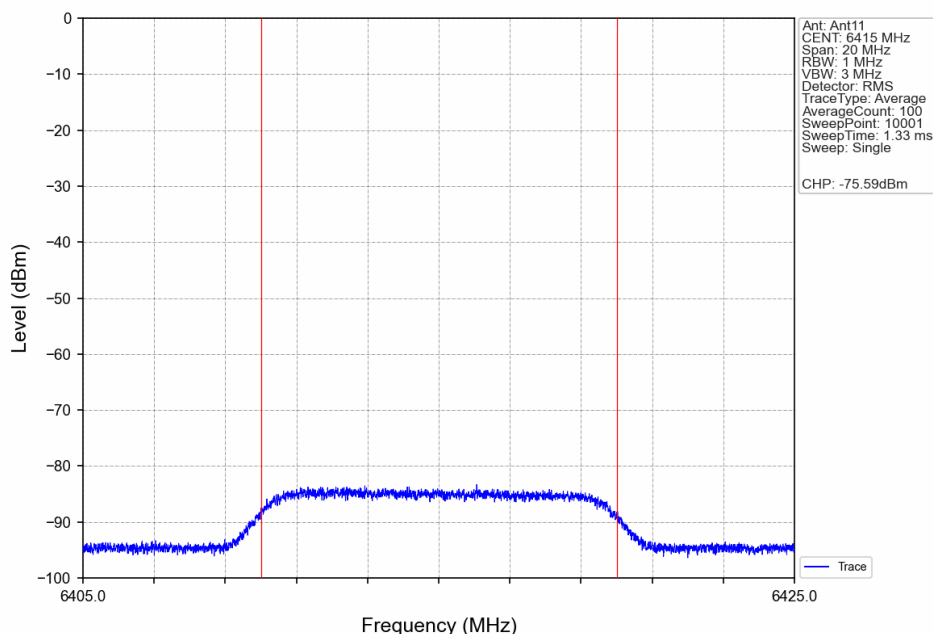
802.11ax(HEW20)_HCH_6415MHz_Inject signal_6415MHz_Detection status_OFF



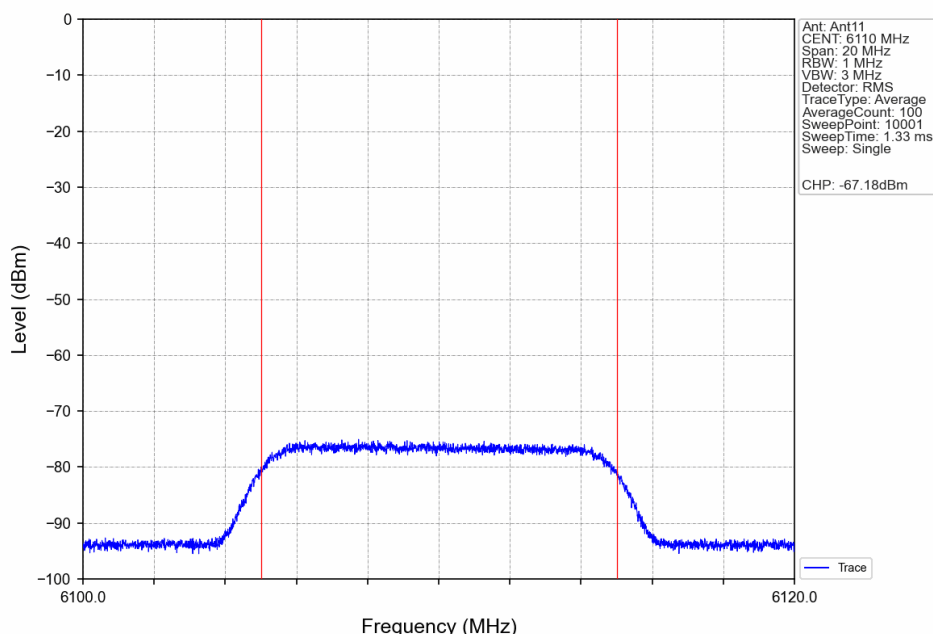
802.11ax(HEW20)_HCH_6415MHz_Inject signal_6415MHz_Detection status_Minimal



802.11ax(HEW20)_HCH_6415MHz_Inject signal_6415MHz_Detection status_ON



802.11ax(HEW160)_MCH_6185MHz_Inject signal_6110MHz_Detection status_OFF



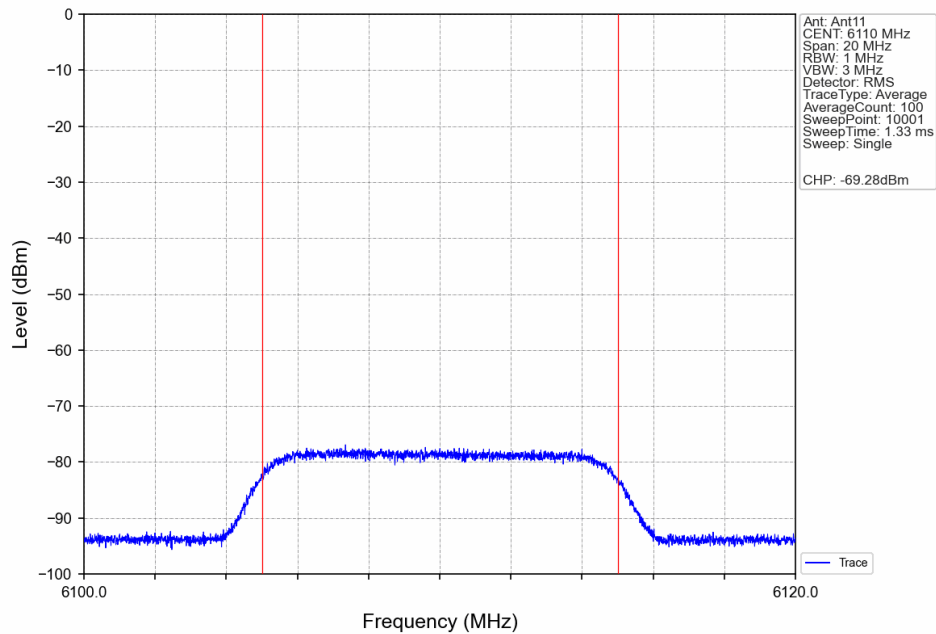
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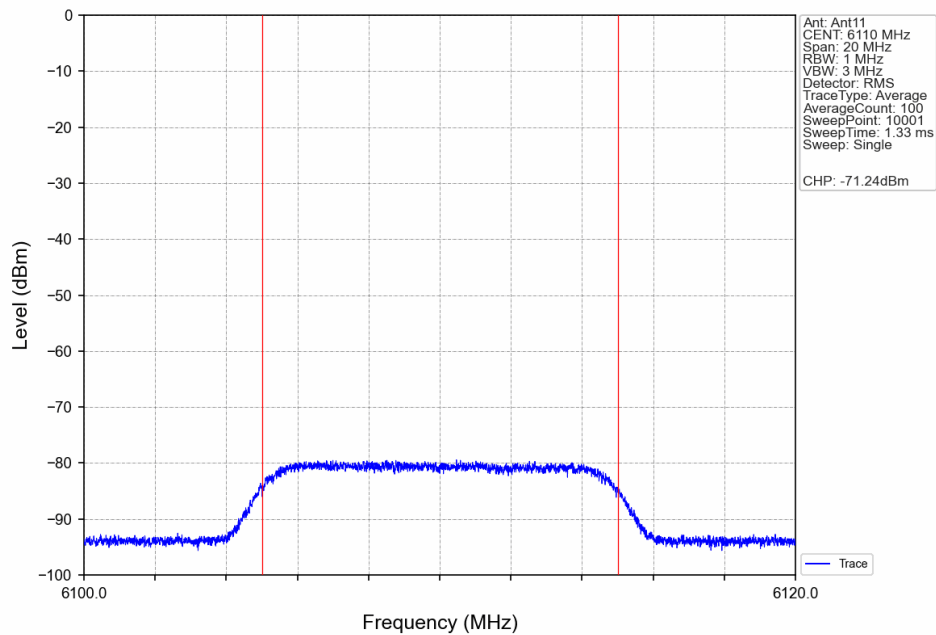
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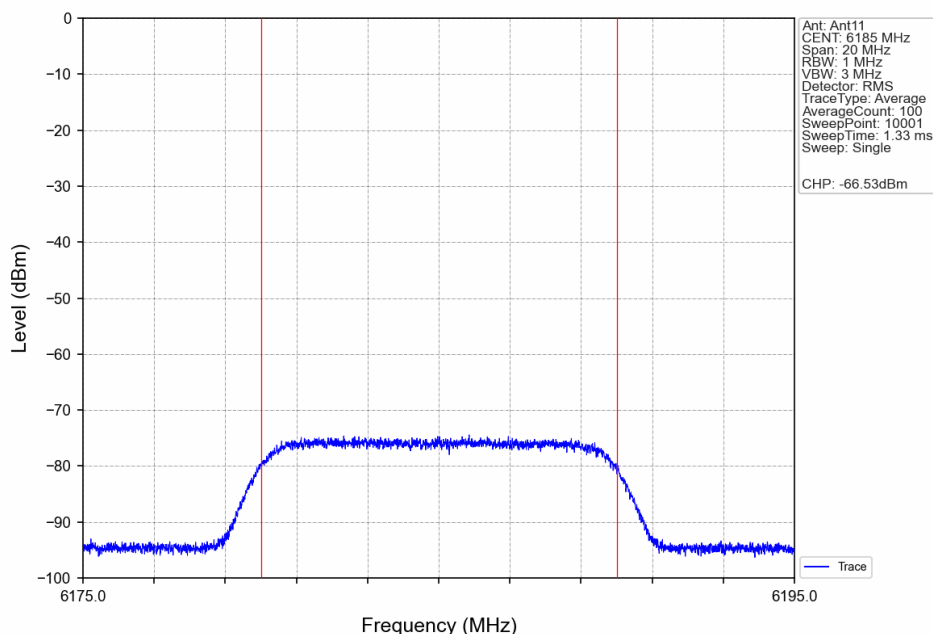
802.11ax(HEW160)_MCH_6185MHz_Inject signal_6110MHz_Detection status_Minimal



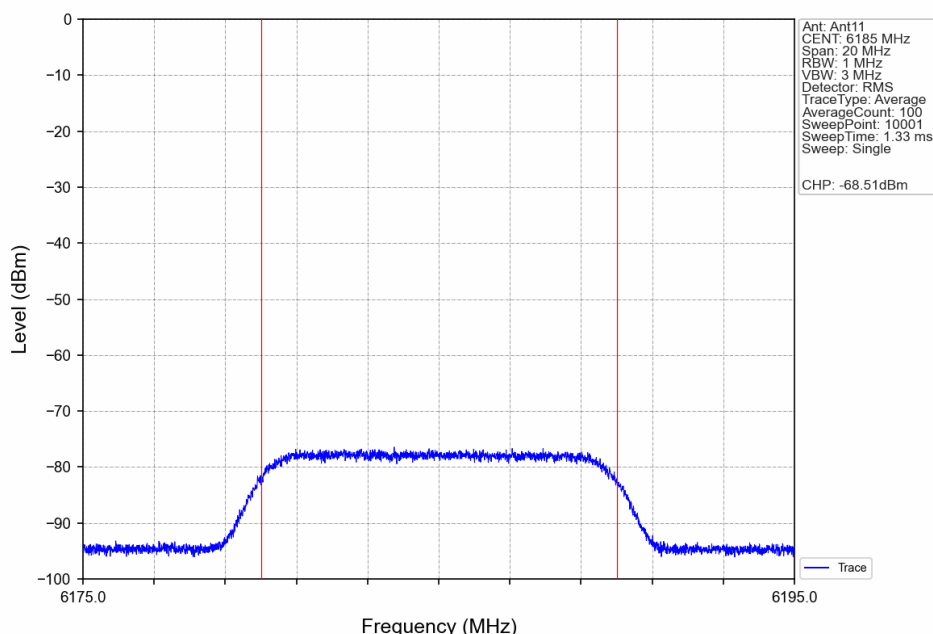
802.11ax(HEW160)_MCH_6185MHz_Inject signal_6110MHz_Detection status_ON



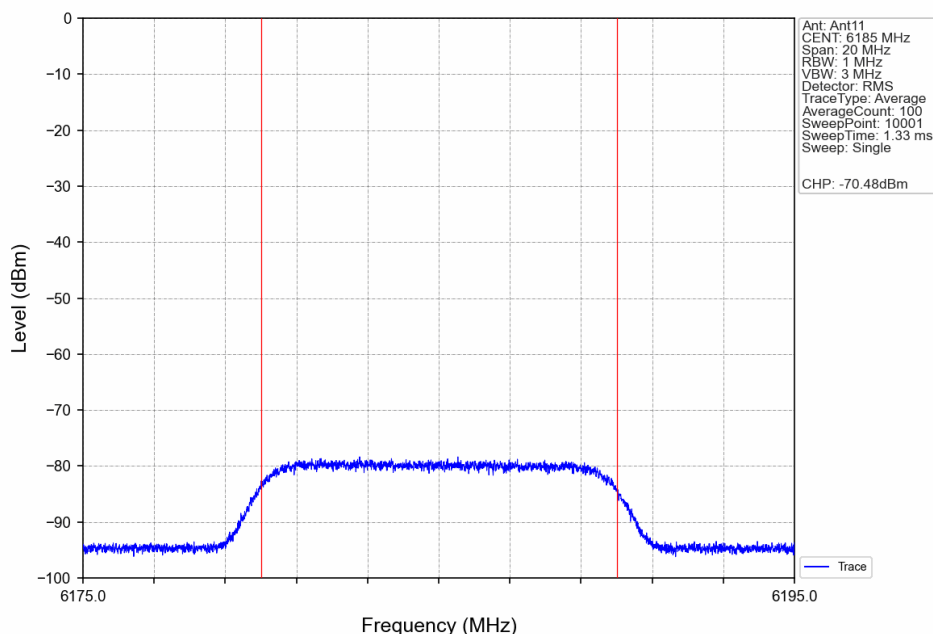
802.11ax(HEW160)_MCH_6185MHz_Inject signal_6185MHz_Detection status_OFF



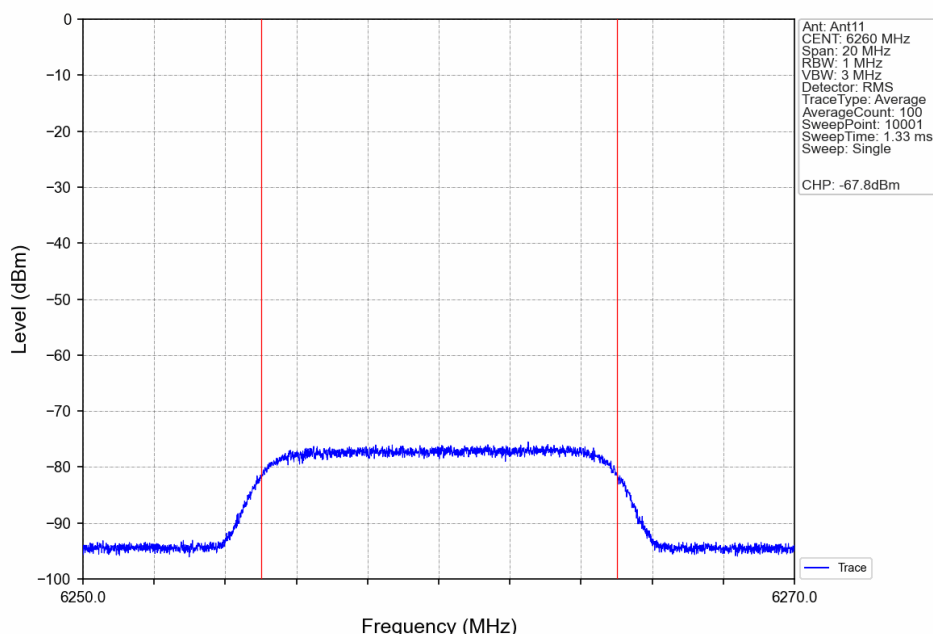
802.11ax(HEW160)_MCH_6185MHz_Inject signal_6185MHz_Detection status_Minimal



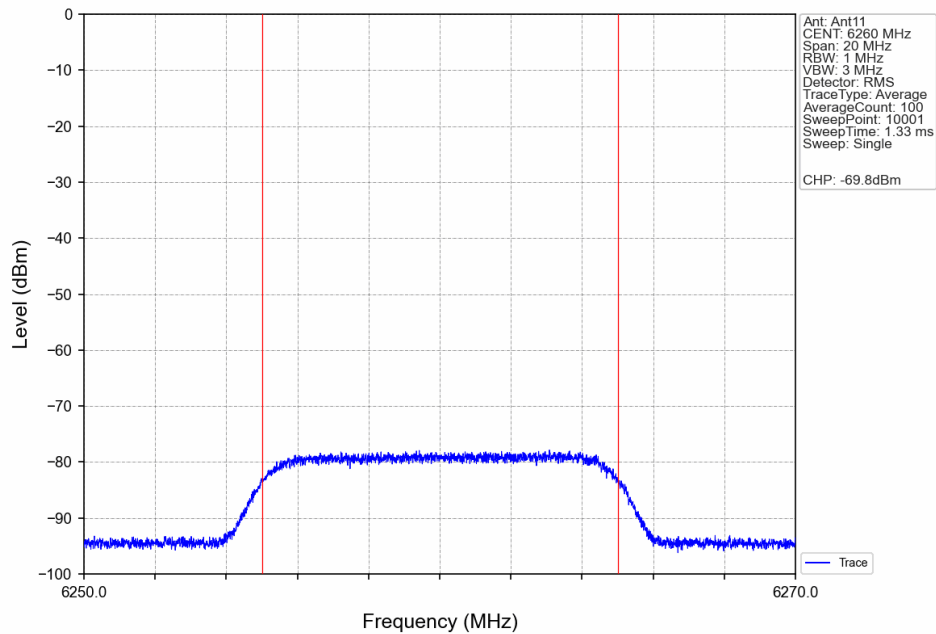
802.11ax(HEW160)_MCH_6185MHz_Inject signal_6185MHz_Detection status_ON



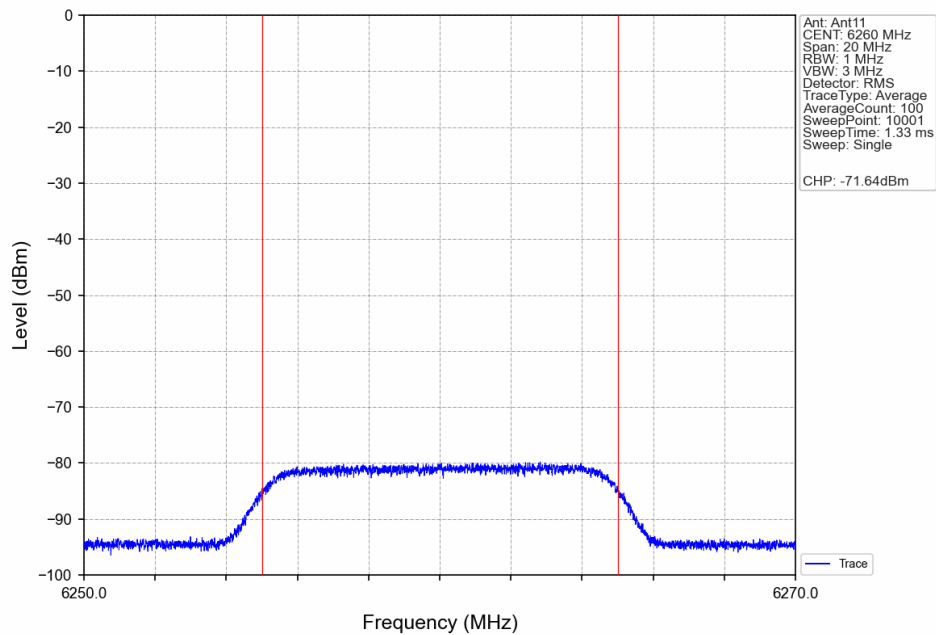
802.11ax(HEW160)_MCH_6185MHz_Inject signal_6260MHz_Detection status_OFF



802.11ax(HEW160)_MCH_6185MHz_Inject signal_6260MHz_Detection status_Minimal

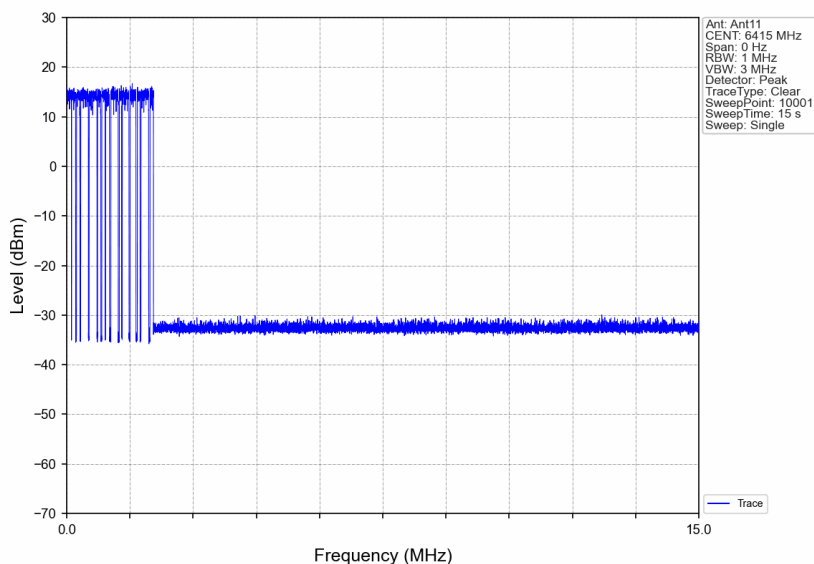


802.11ax(HEW160)_MCH_6185MHz_Inject signal_6260MHz_Detection status_ON

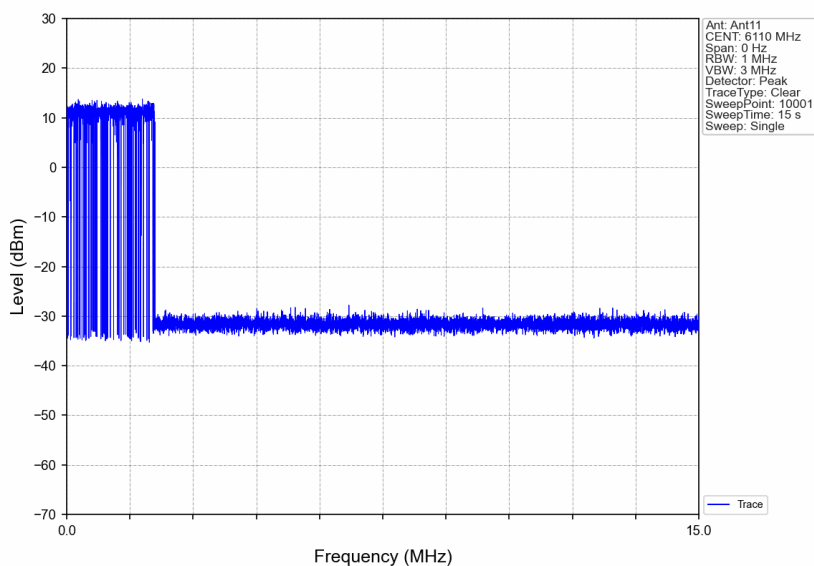


7.2.3 Contention Based Protocol_Detection Probability_Band 5_Ant11

802.11ax(HEW20)_HCH_6415MHz_Inject signal_6415MHz_ - Inject Incumbent signal at 10th seconds and keep the signal continuously injected



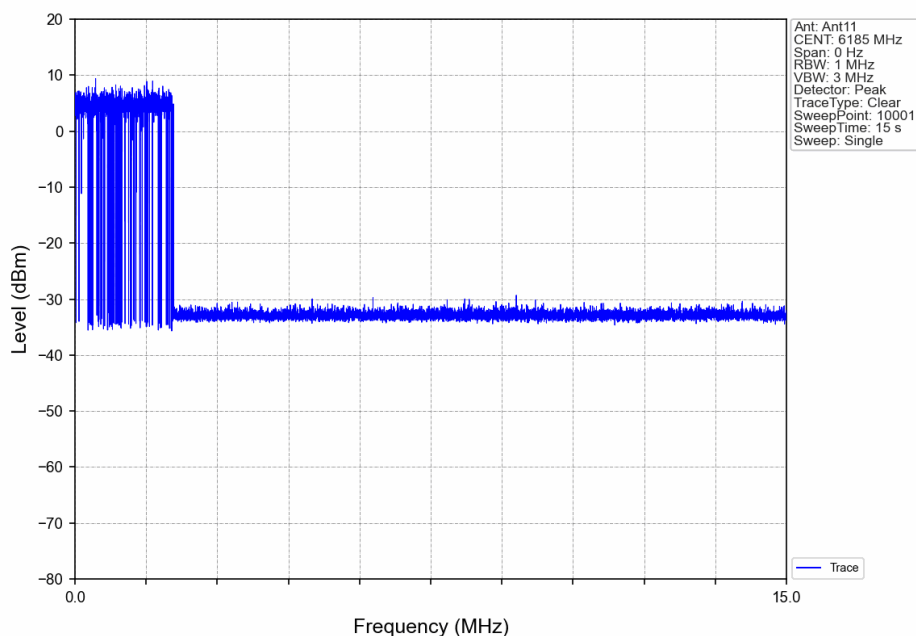
802.11ax(HEW160)_MCH_6185MHz_Inject signal_6110MHz_ - Inject Incumbent signal at 10th seconds and keep the signal continuously injected



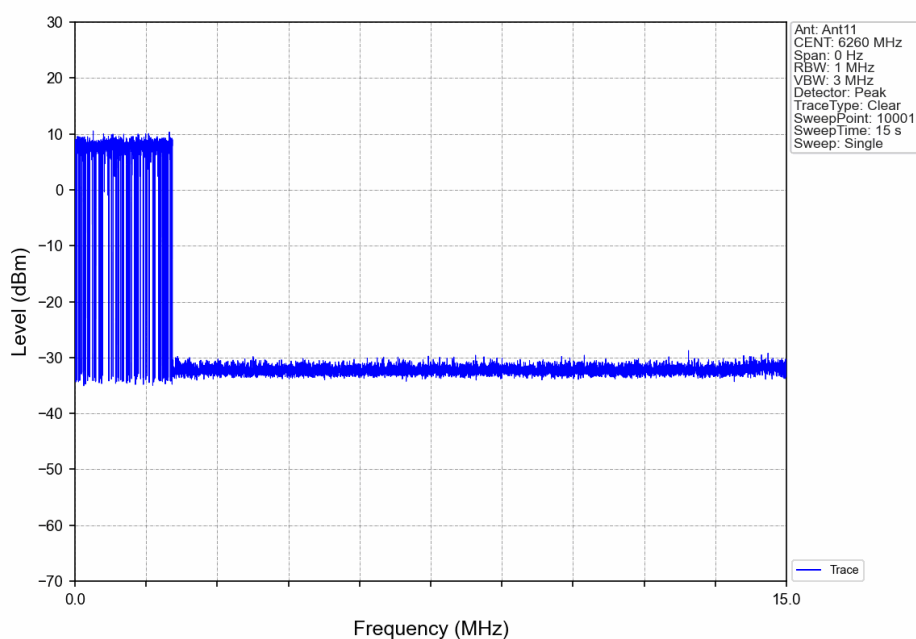
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802.11ax(HEW160)_MCH_6185MHz_Inject signal_6185MHz_- Inject Incumbent signal at 10th seconds and keep the signal continuously injected

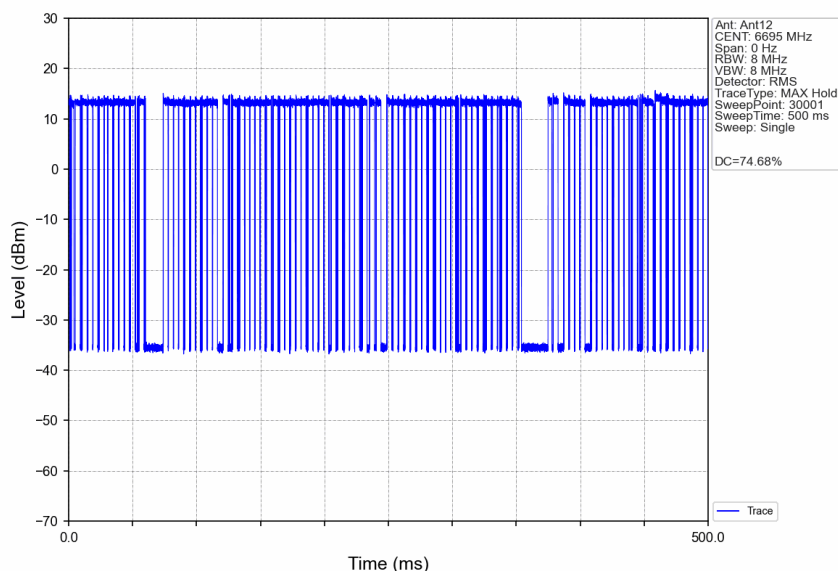


802.11ax(HEW160)_MCH_6185MHz_Inject signal_6260MHz_- Inject Incumbent signal at 10th seconds and keep the signal continuously injected

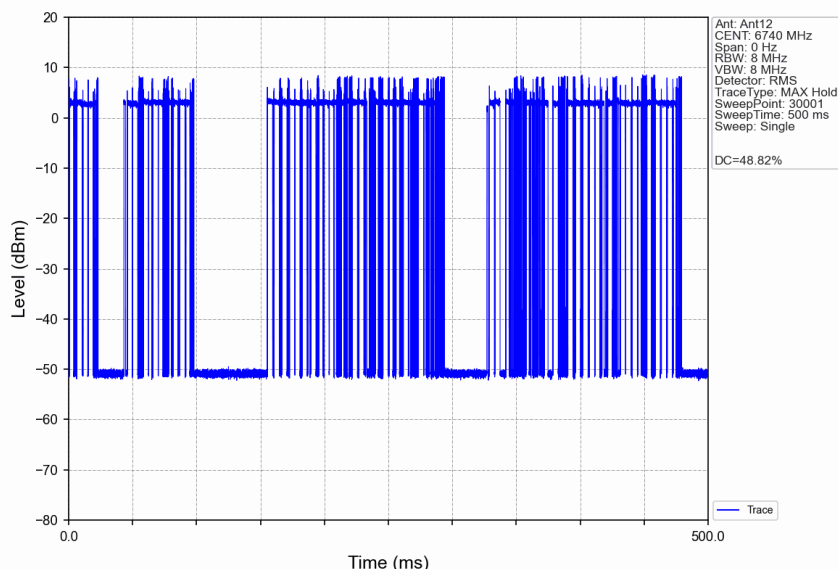


7.2.4 Duty Cycle_Band 7_Ant12

802.11ax(HEW20)_MCH_6695MHz_Inject signal_6695MHz



802.11ax(HEW160)_MCH_6665MHz_Inject signal_6590MHz

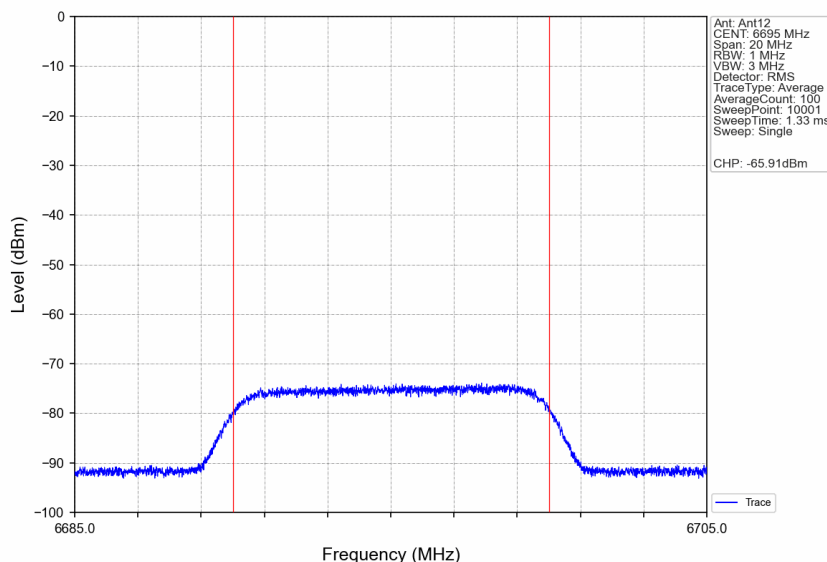


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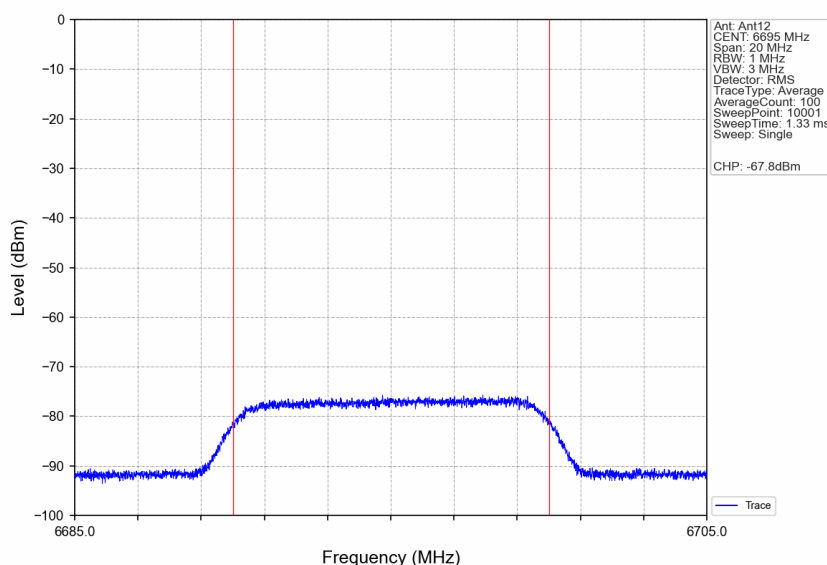
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7.2.5 Contention Based Protocol_Detection Power_Band 7_Ant12

802.11ax(HEW20)_MCH_6695MHz_Inject signal_6695MHz_Detection status_OFF



802.11ax(HEW20)_MCH_6695MHz_Inject signal_6695MHz_Detection status_Minimal



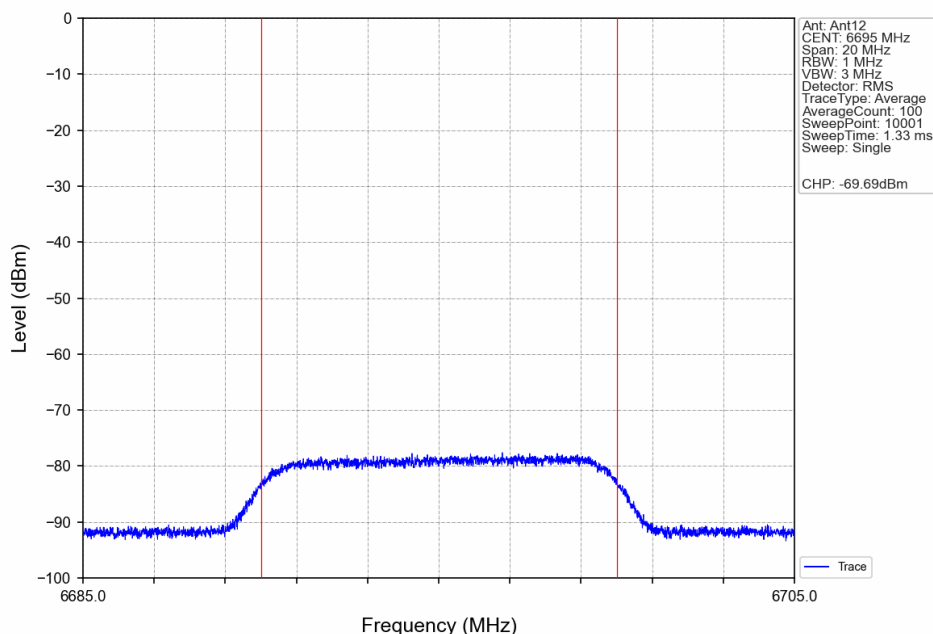
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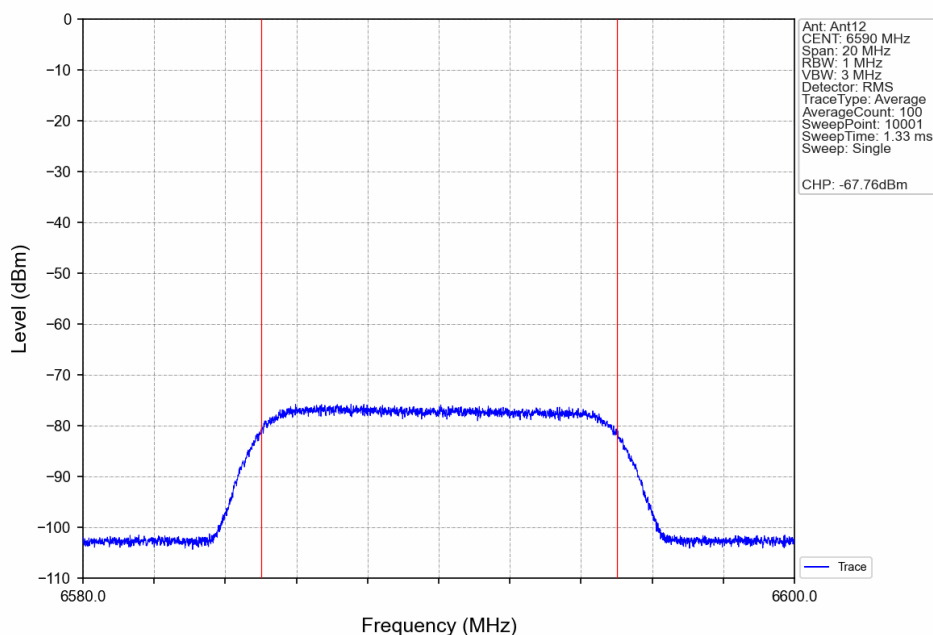
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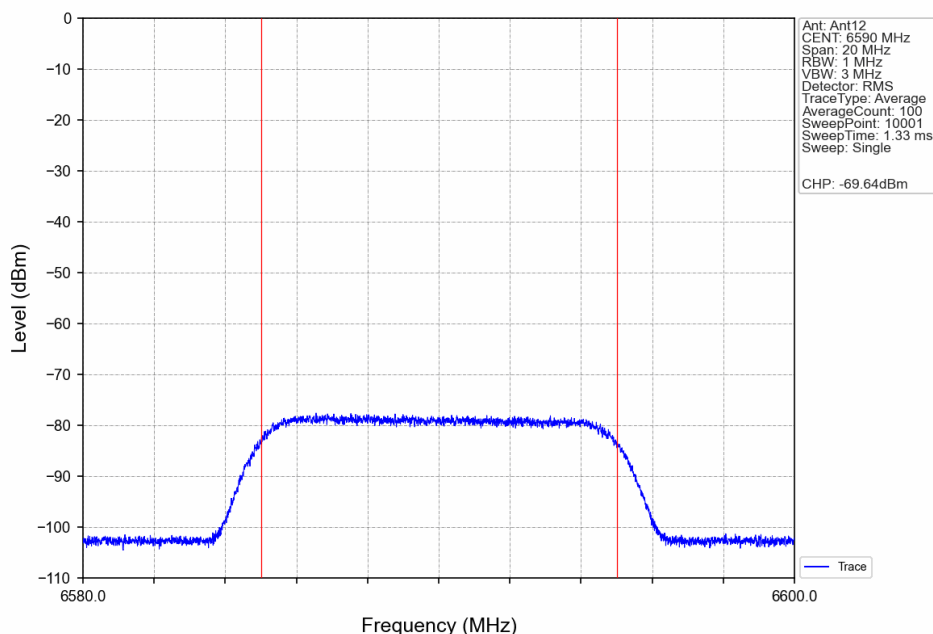
802.11ax(HEW20)_MCH_6695MHz_Inject signal_6695MHz_Detection status_ON



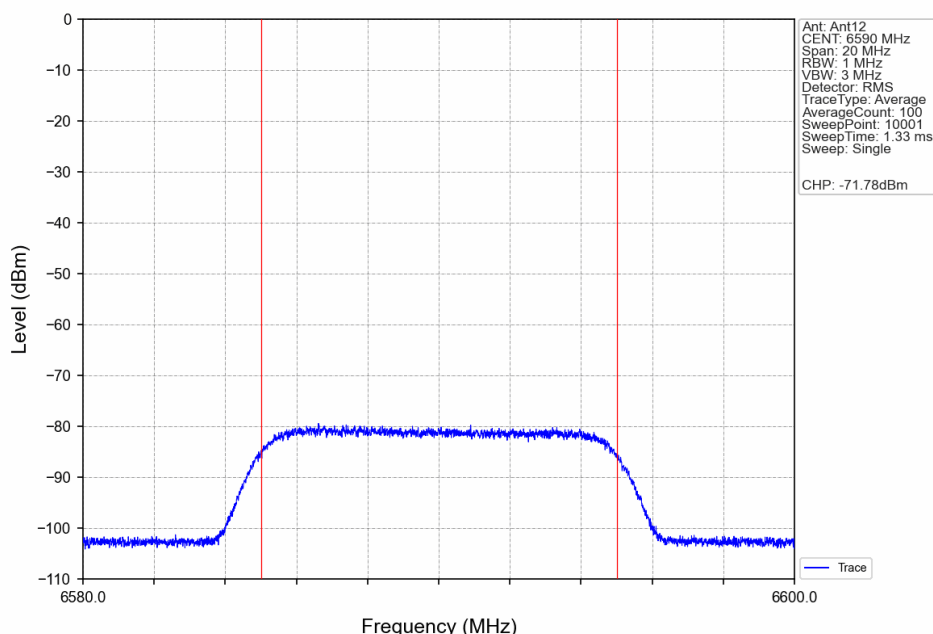
802.11ax(HEW160)_MCH_6665MHz_Inject signal_6590MHz_Detection status_OFF



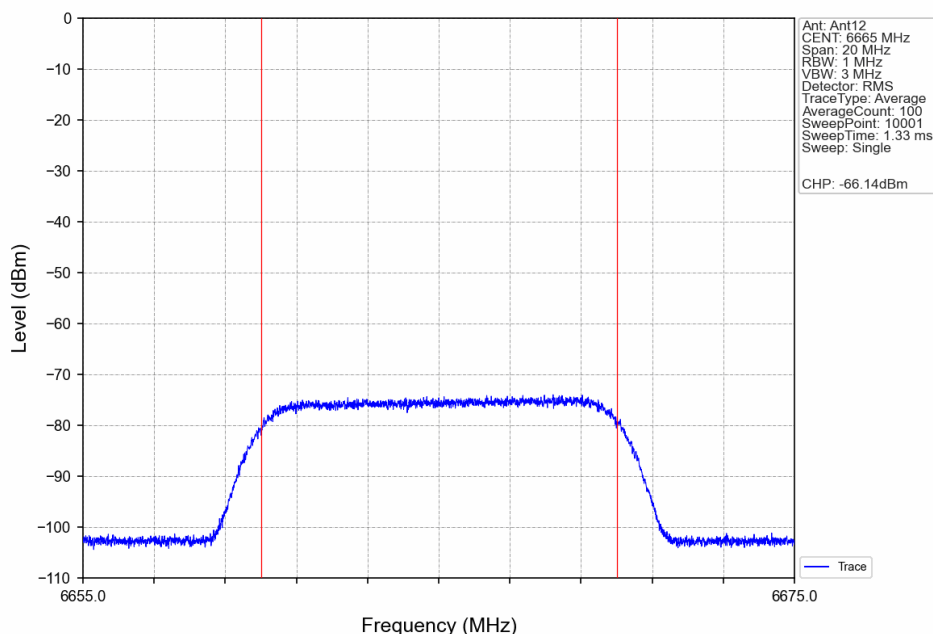
802.11ax(HEW160)_MCH_6665MHz_Inject signal_6590MHz_Detection status_Minimal



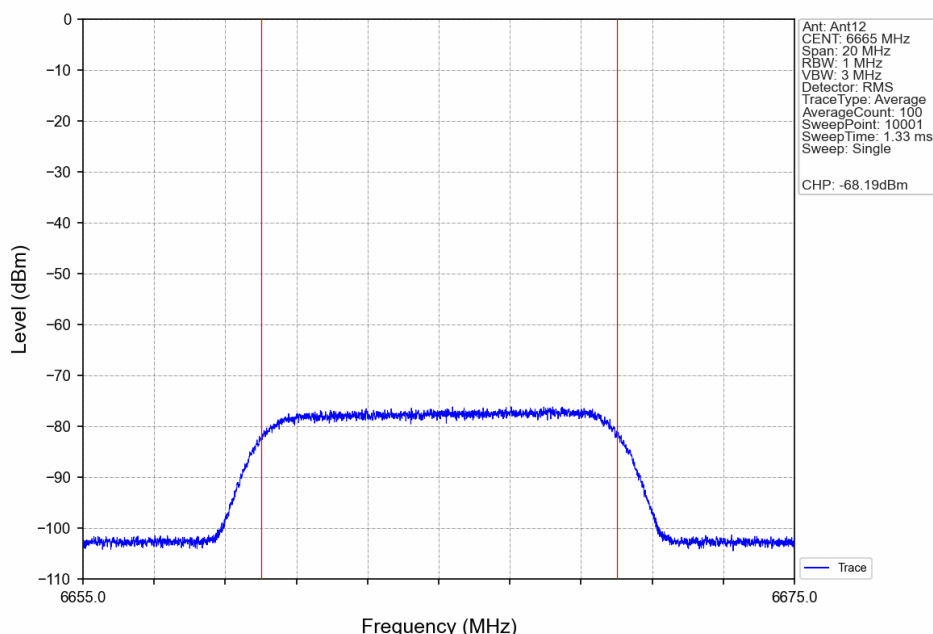
802.11ax(HEW160)_MCH_6665MHz_Inject signal_6590MHz_Detection status_ON



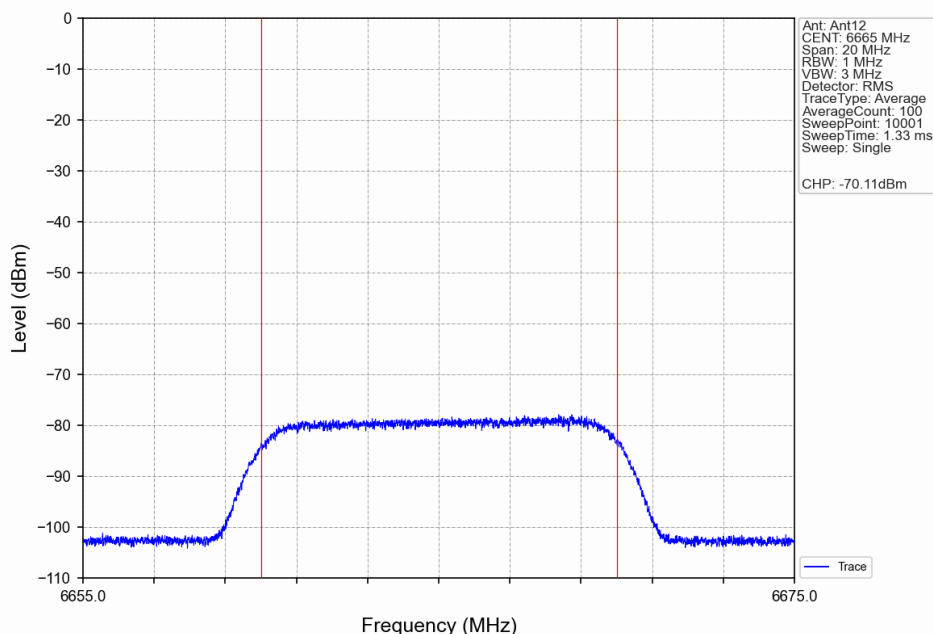
802.11ax(HEW160)_MCH_6665MHz_Inject signal_6665MHz_Detection status_OFF



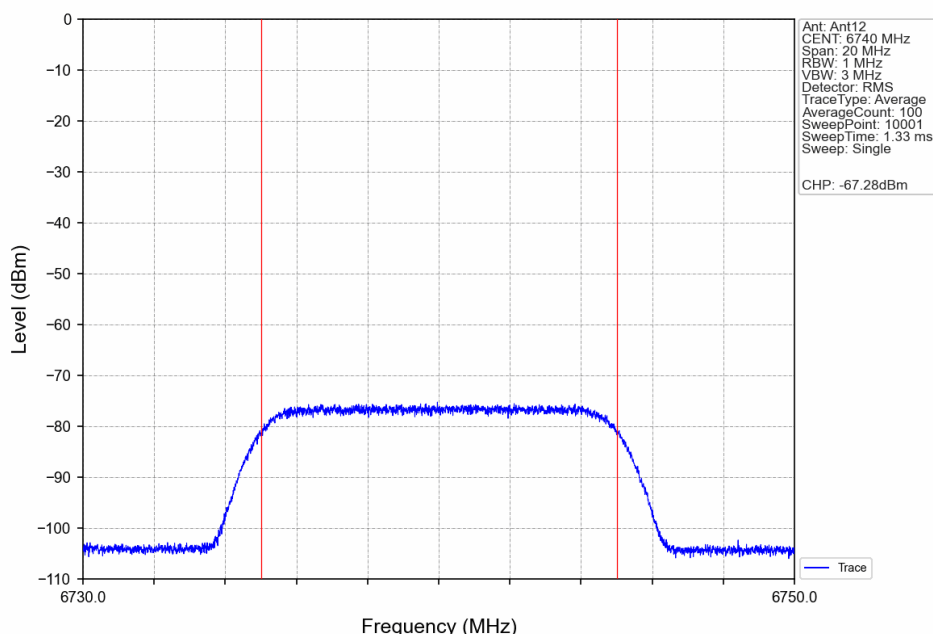
802.11ax(HEW160)_MCH_6665MHz_Inject signal_6665MHz_Detection status_Minimal



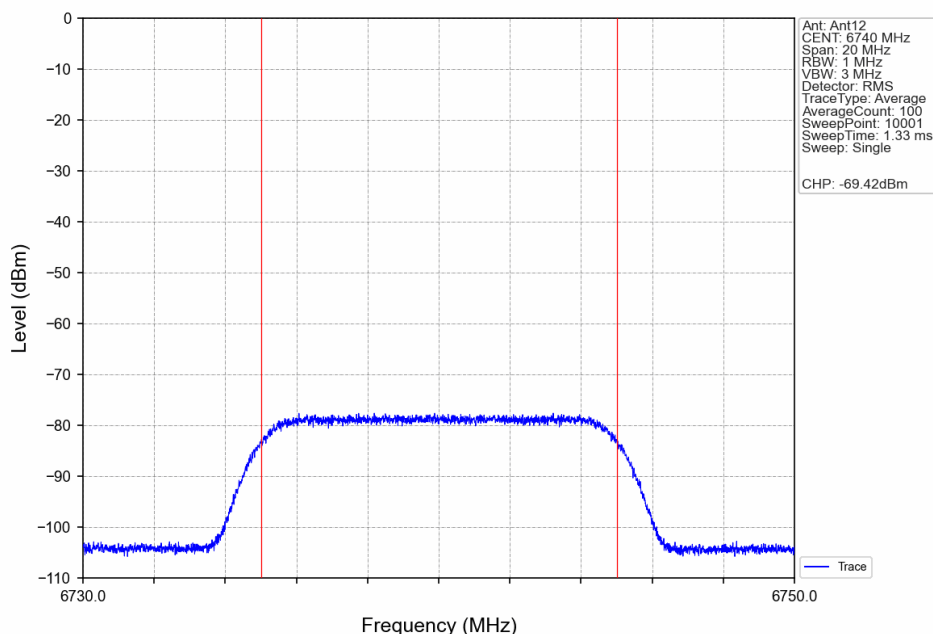
802.11ax(HEW160)_MCH_6665MHz_Inject signal_6665MHz_Detection status_ON



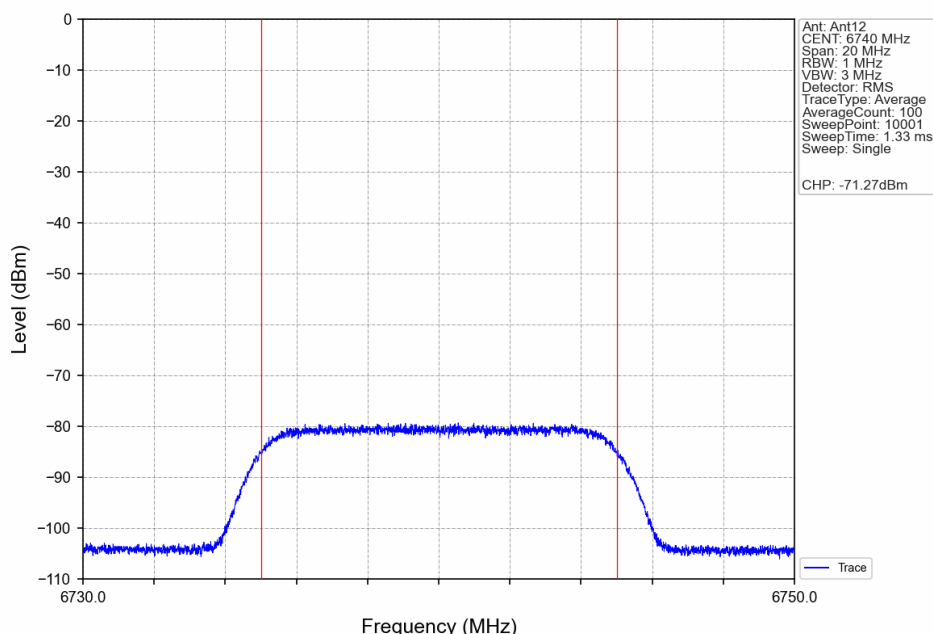
802.11ax(HEW160)_MCH_6665MHz_Inject signal_6740MHz_Detection status_OFF



802.11ax(HEW160)_MCH_6665MHz_Inject signal_6740MHz_Detection status_Minimal

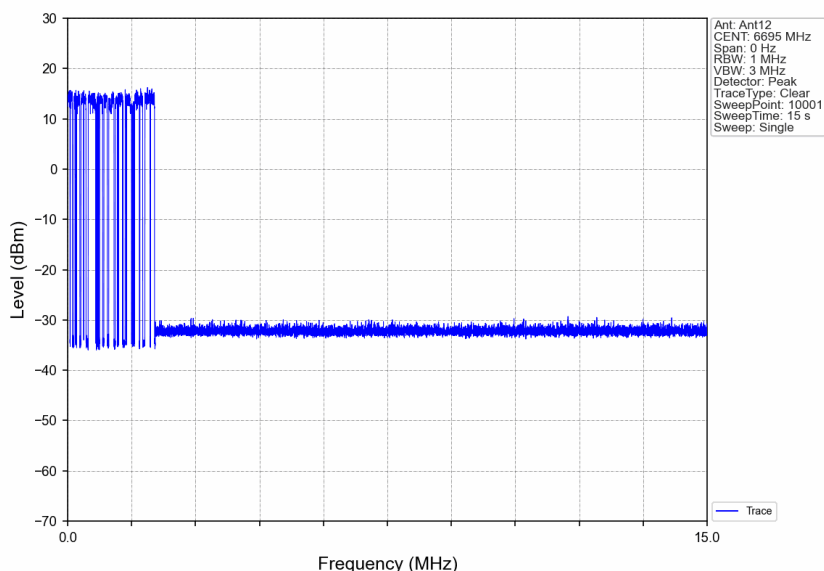


802.11ax(HEW160)_MCH_6665MHz_Inject signal_6740MHz_Detection status_ON

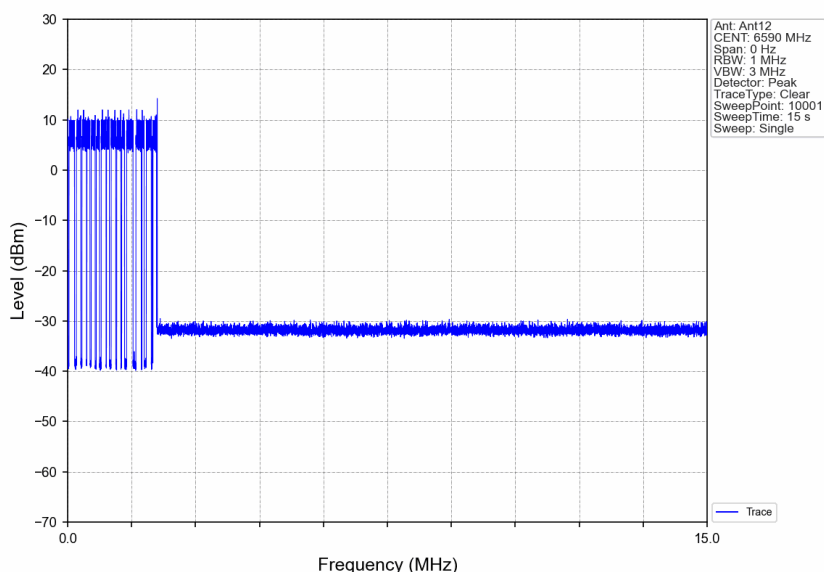


7.2.6 Contention Based Protocol_Detection Probability_Band 7_Ant12

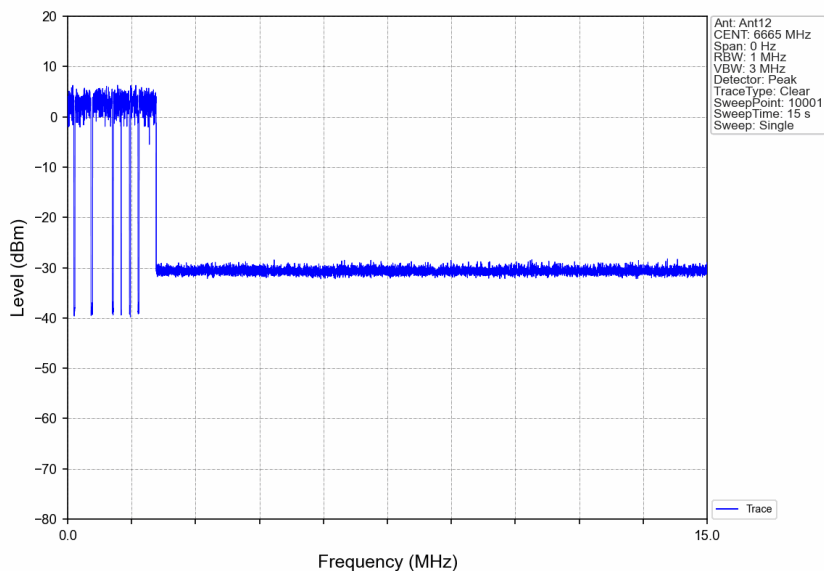
802.11ax(HEW20)_MCH_6695MHz_Inject signal_6695MHz_- Inject Incumbent signal at 10th seconds and keep the signal continuously injected



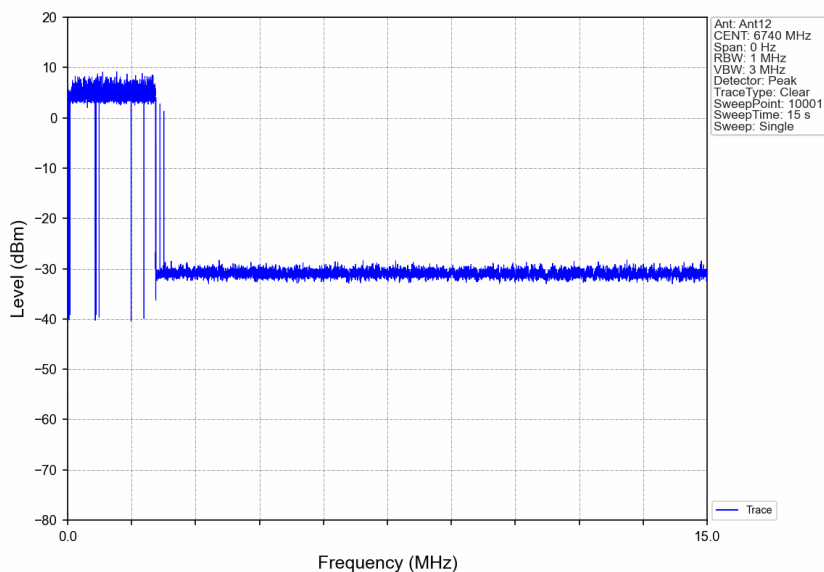
802.11ax(HEW160)_MCH_6665MHz_Inject signal_6590MHz_- Inject Incumbent signal at 10th seconds and keep the signal continuously injected



802.11ax(HEW160)_MCH_6665MHz_Inject signal_6665MHz - Inject Incumbent signal at 10th seconds and keep the signal continuously injected



802.11ax(HEW160)_MCH_6665MHz_Inject signal_6740MHz - Inject Incumbent signal at 10th seconds and keep the signal continuously injected



- End of the Report -



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