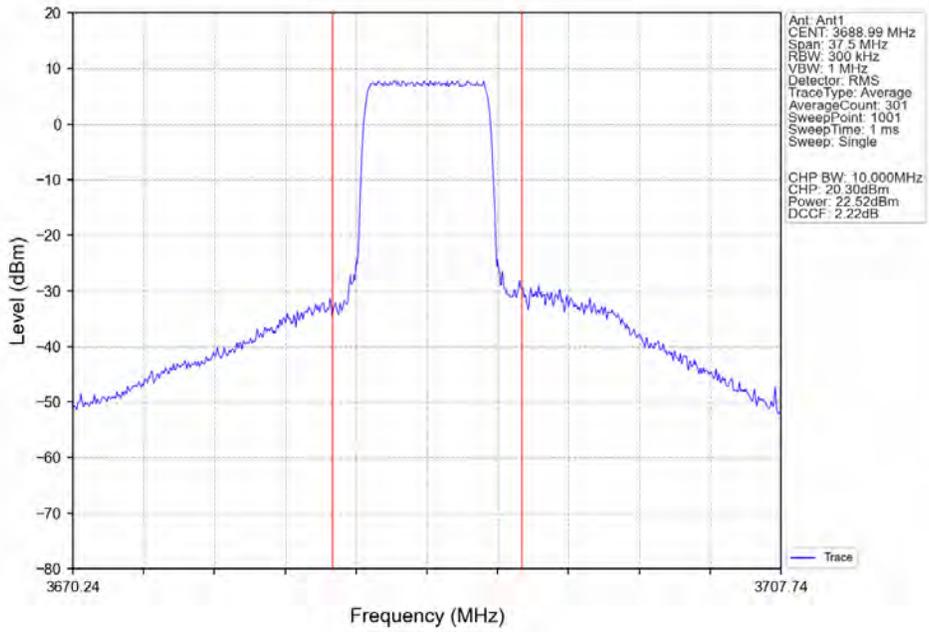
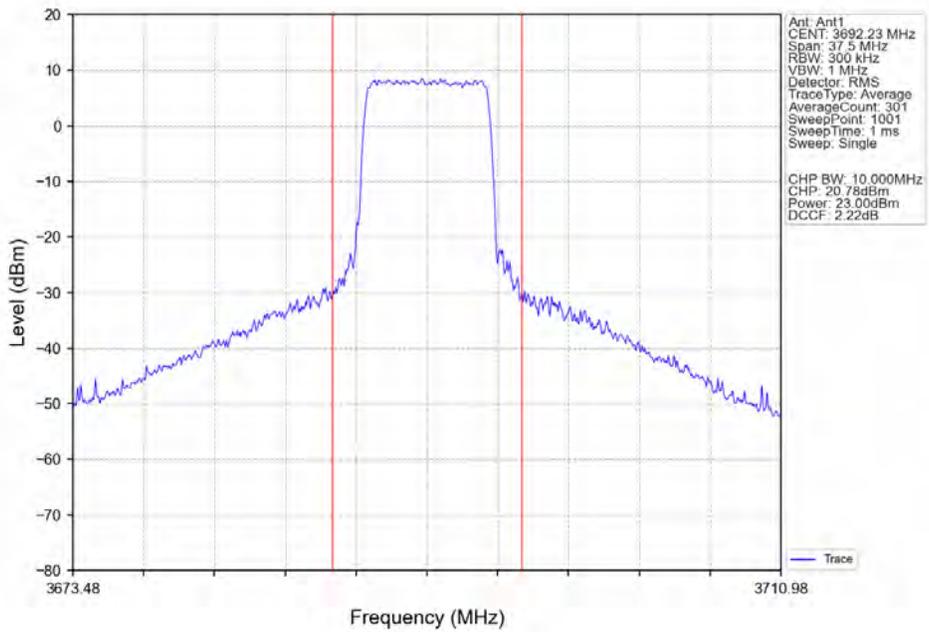


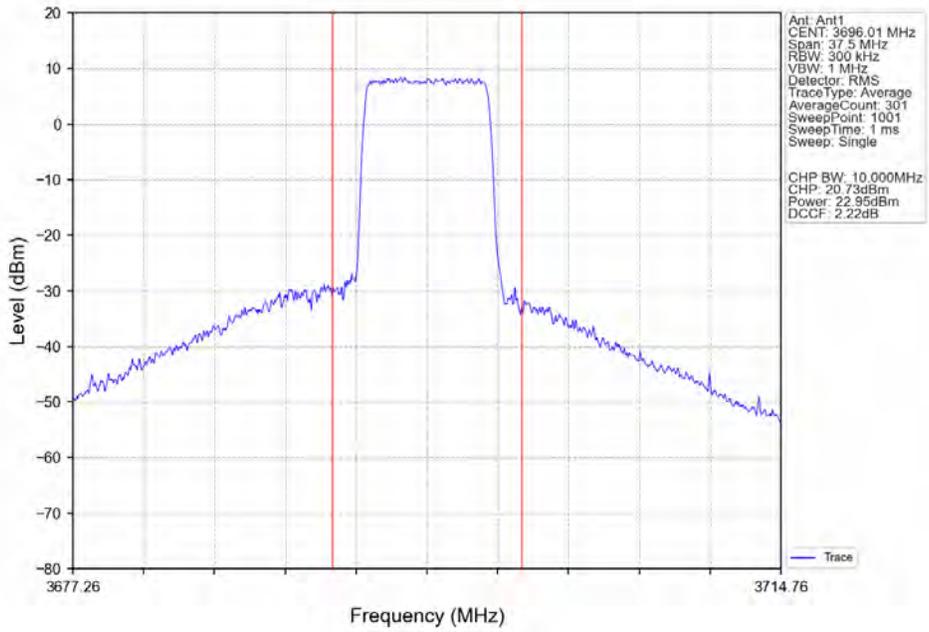
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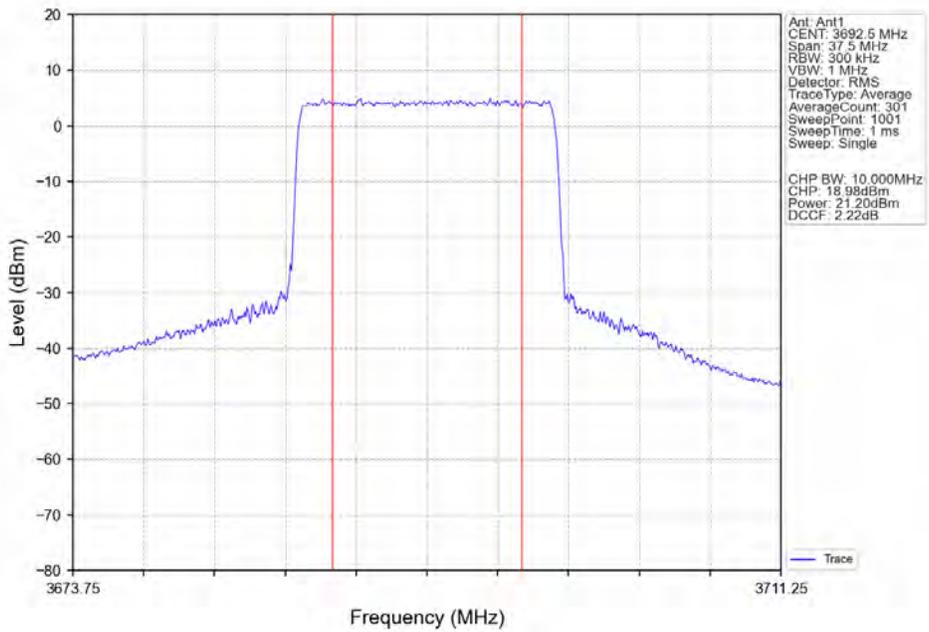
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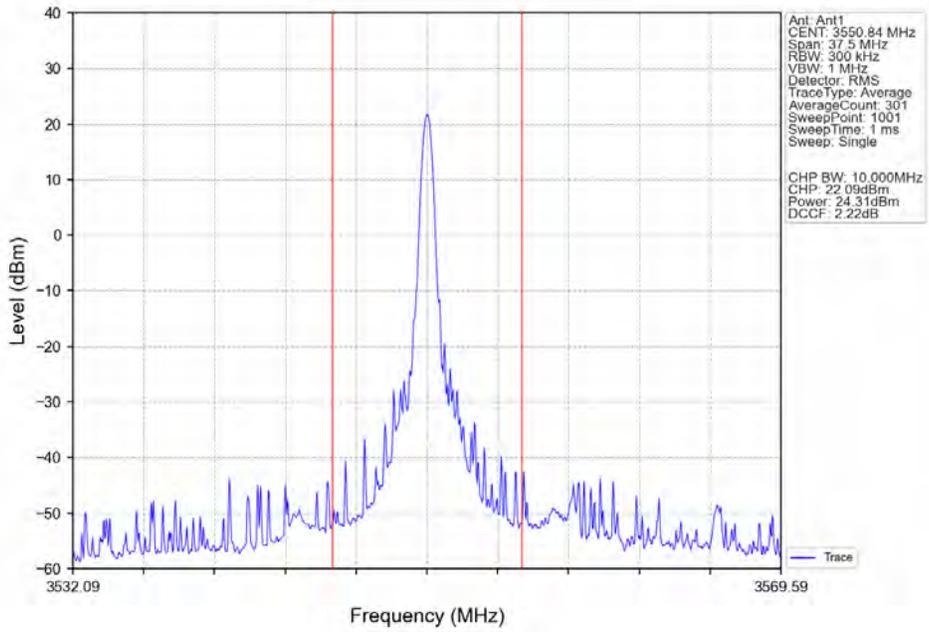
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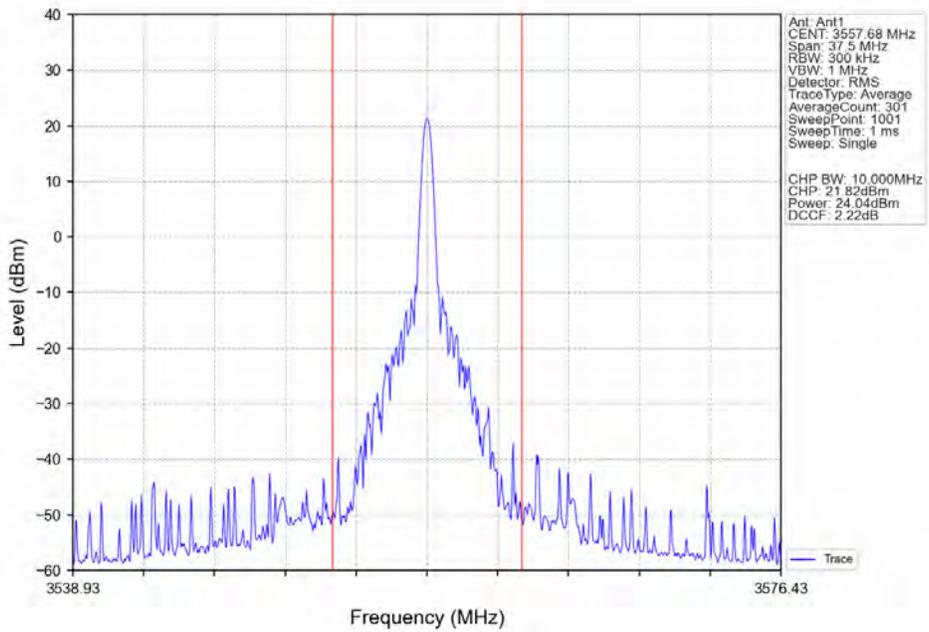
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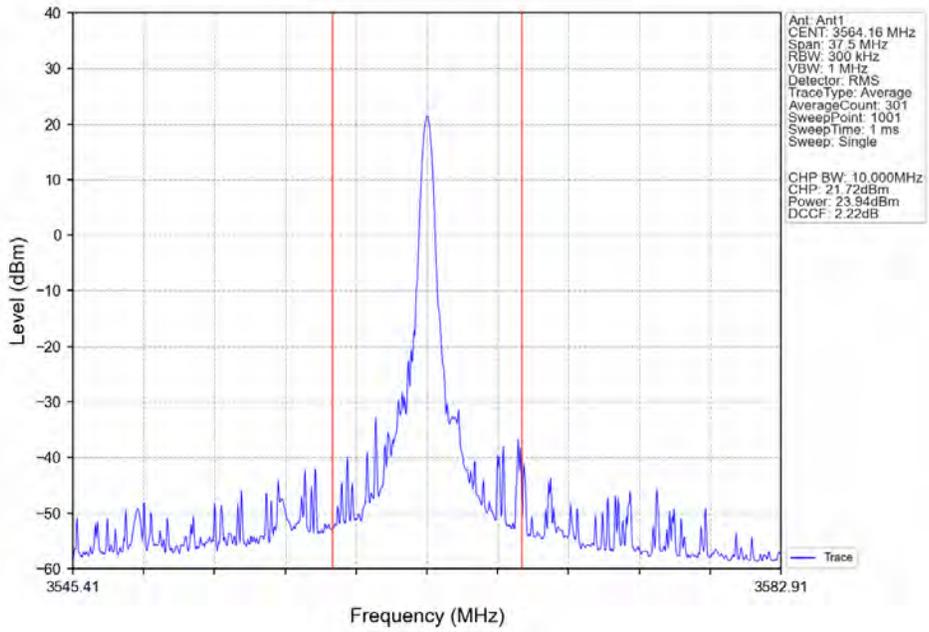
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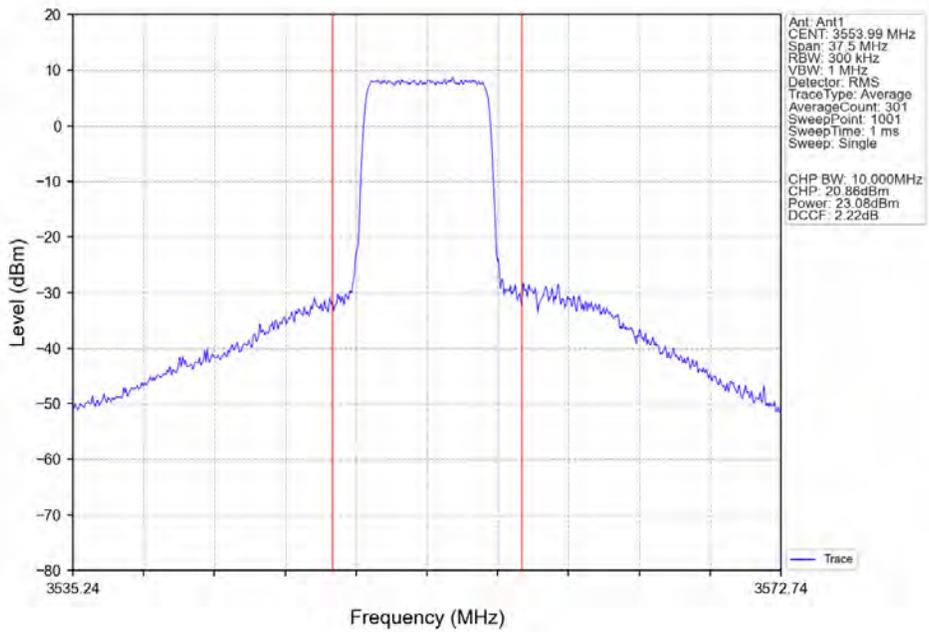
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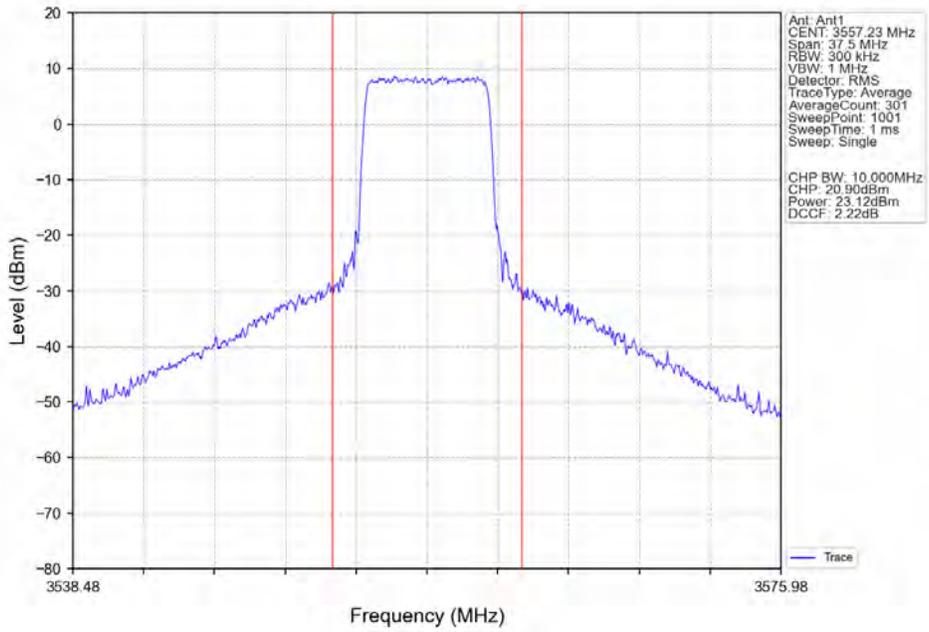
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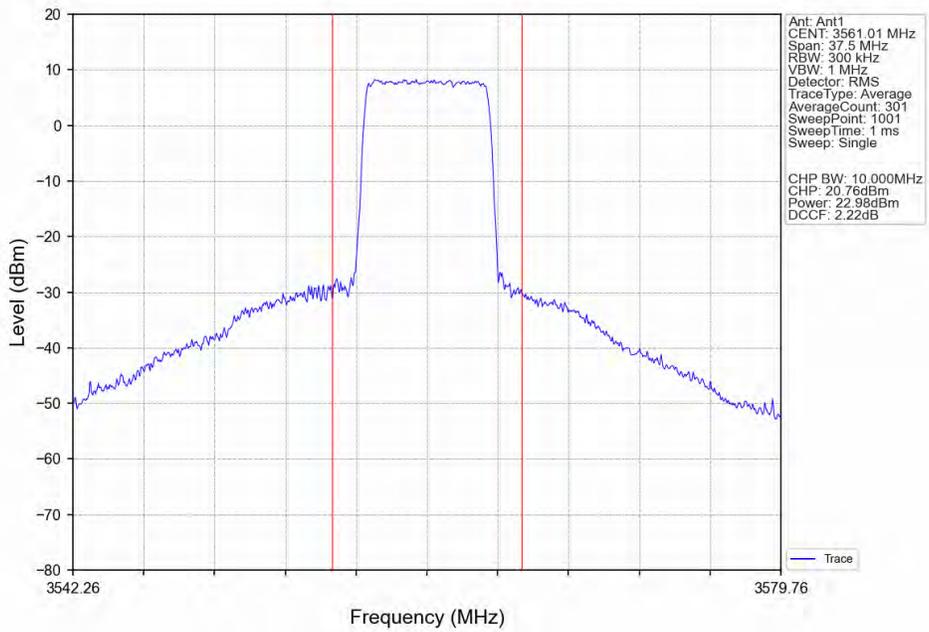
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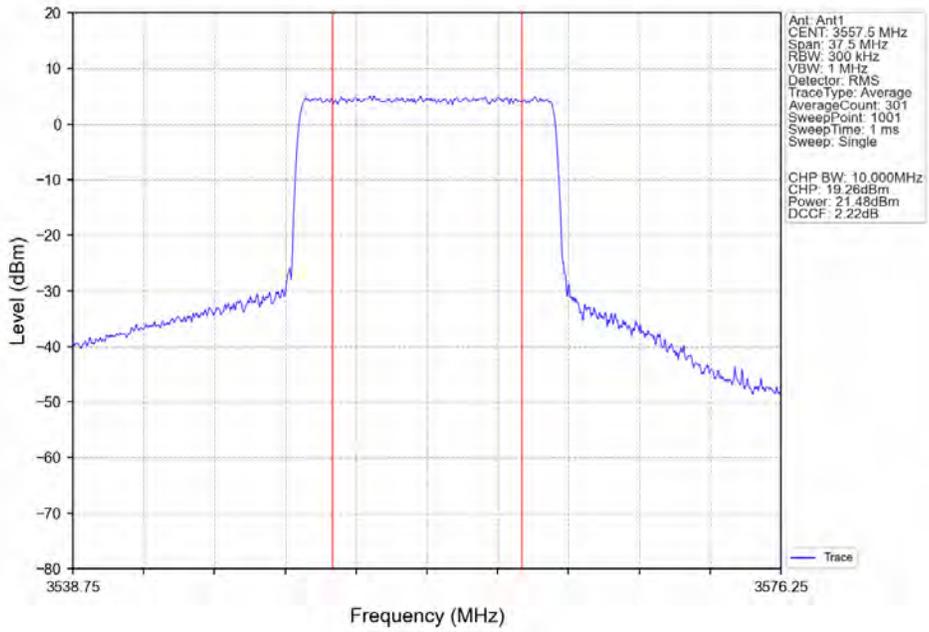
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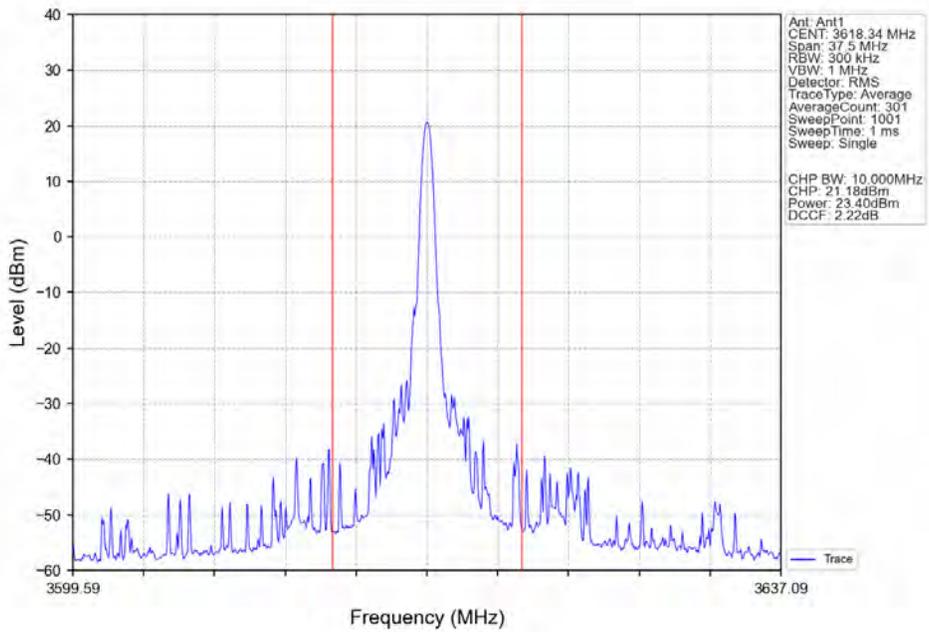
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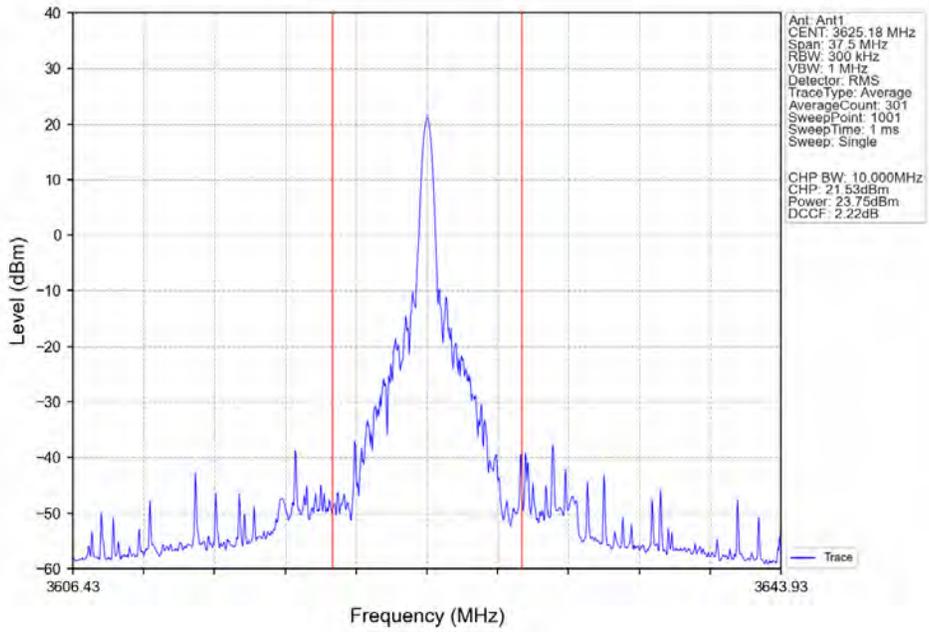
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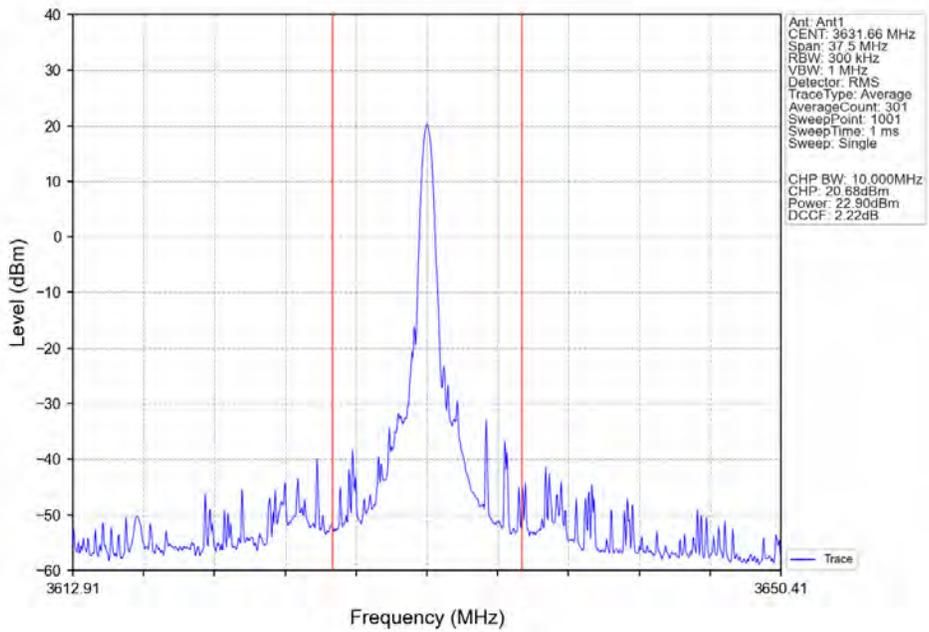
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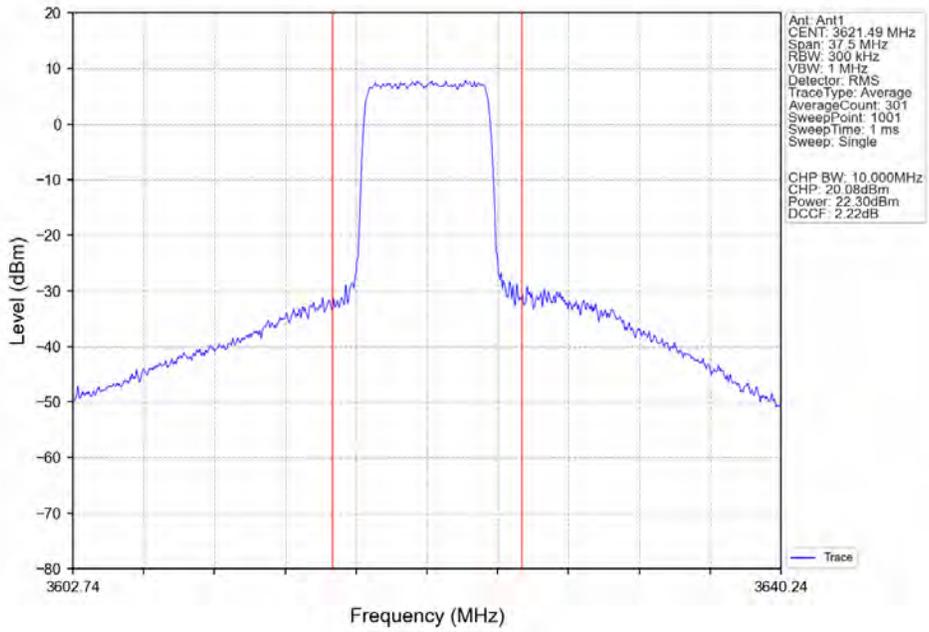
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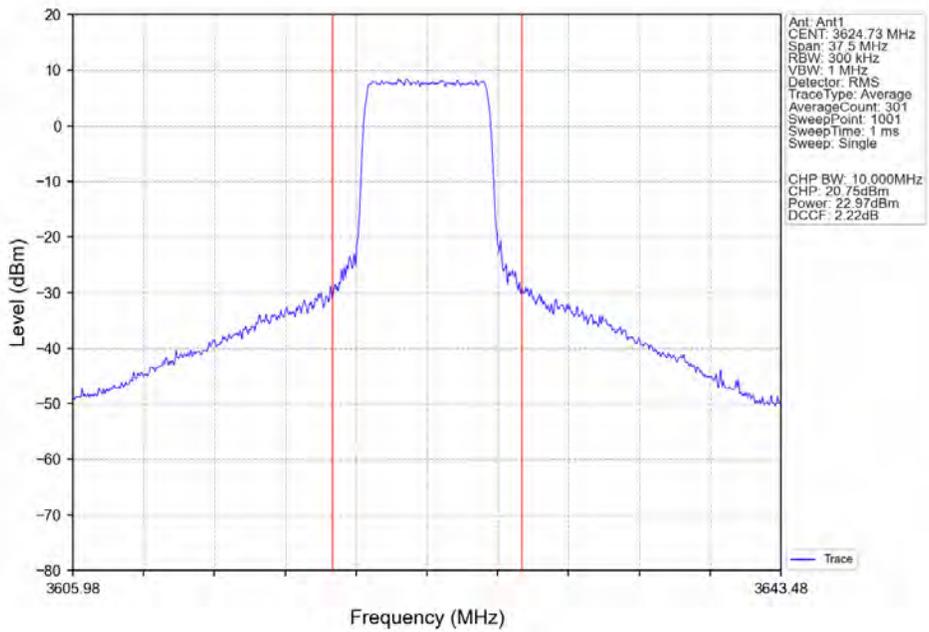
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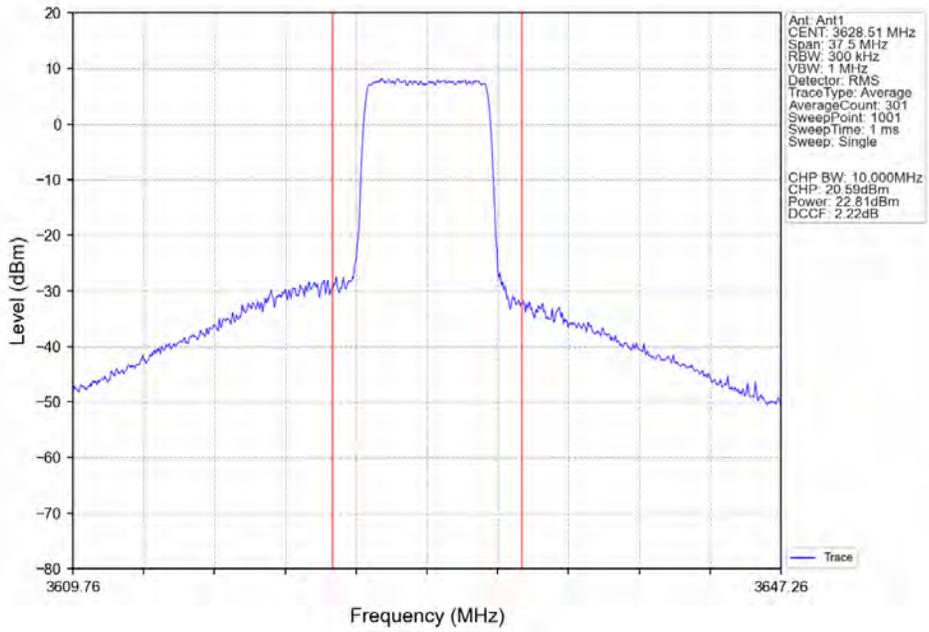
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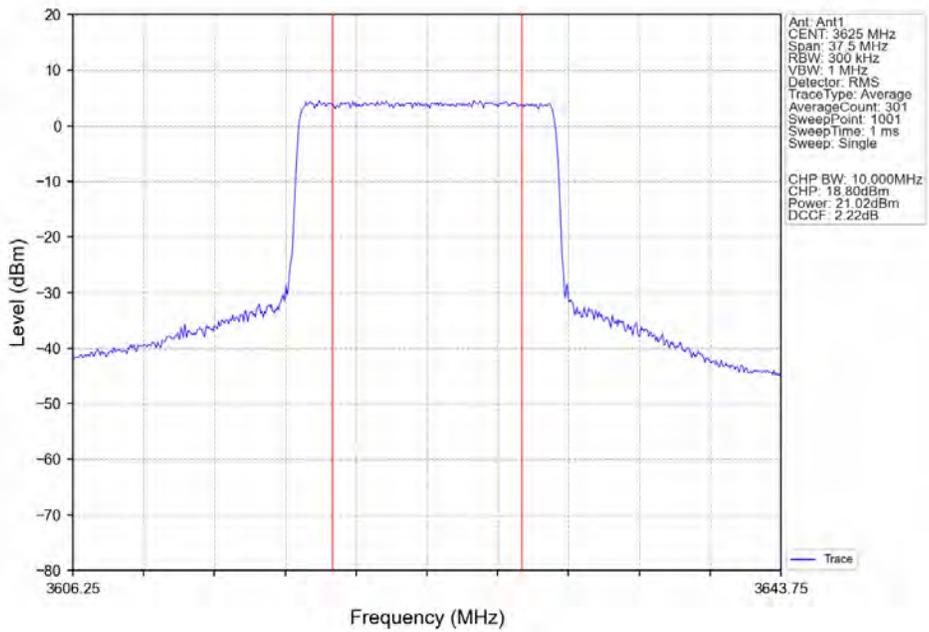
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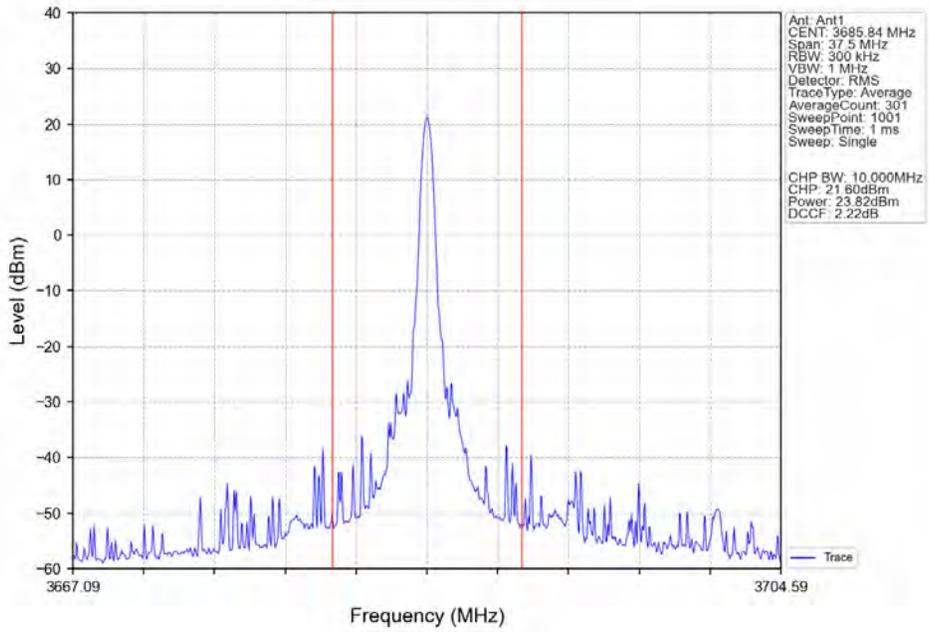
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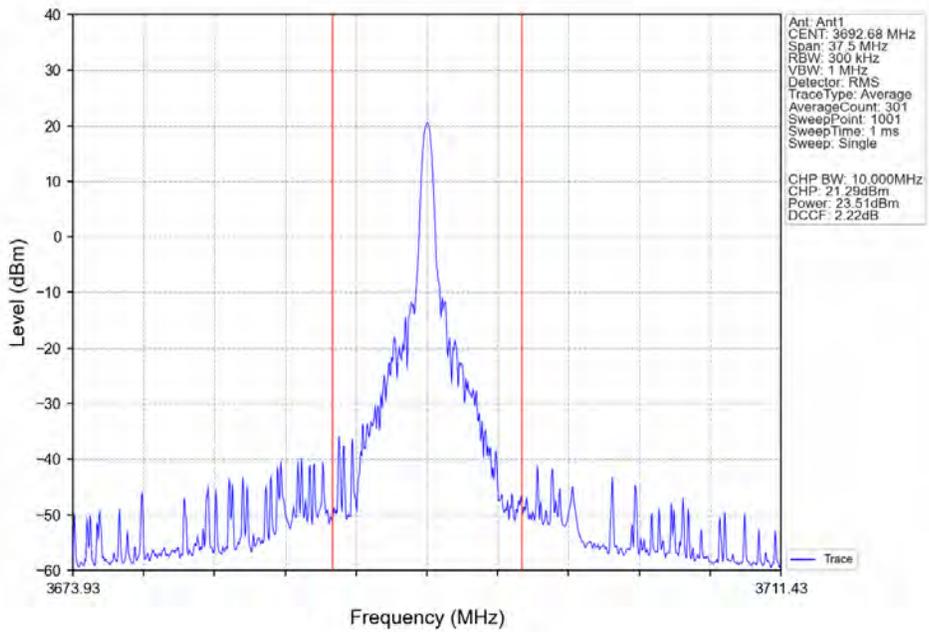
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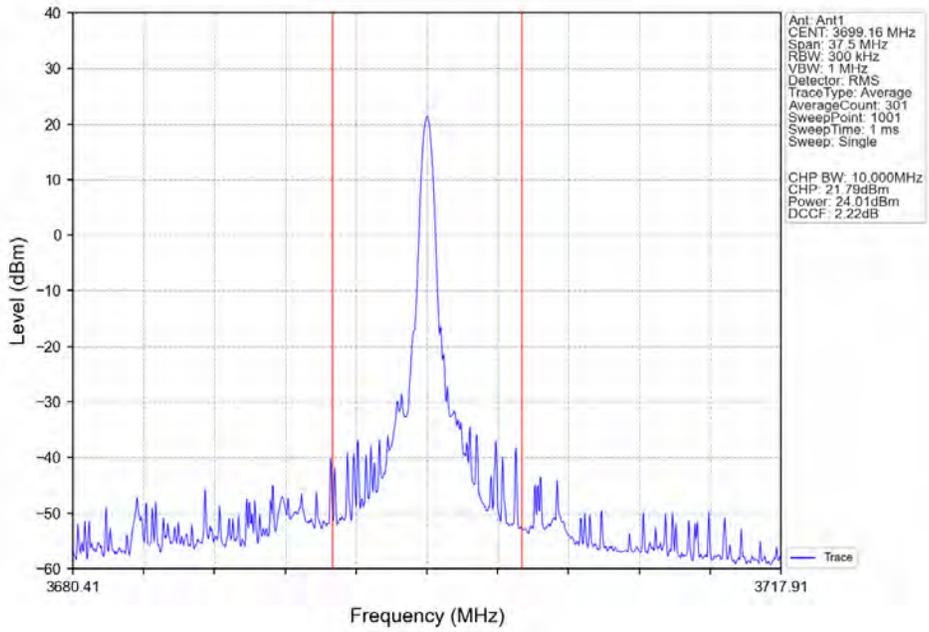
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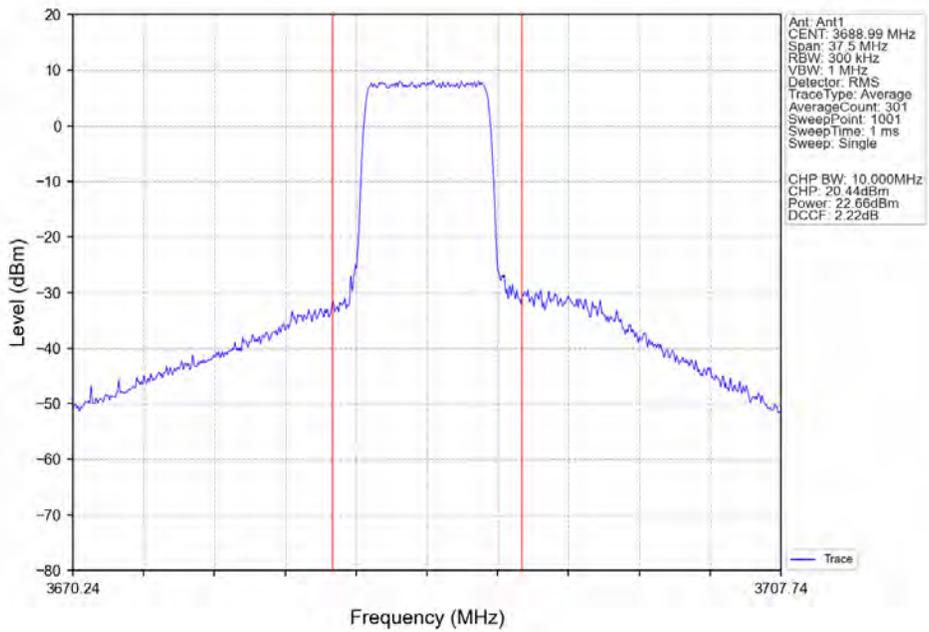
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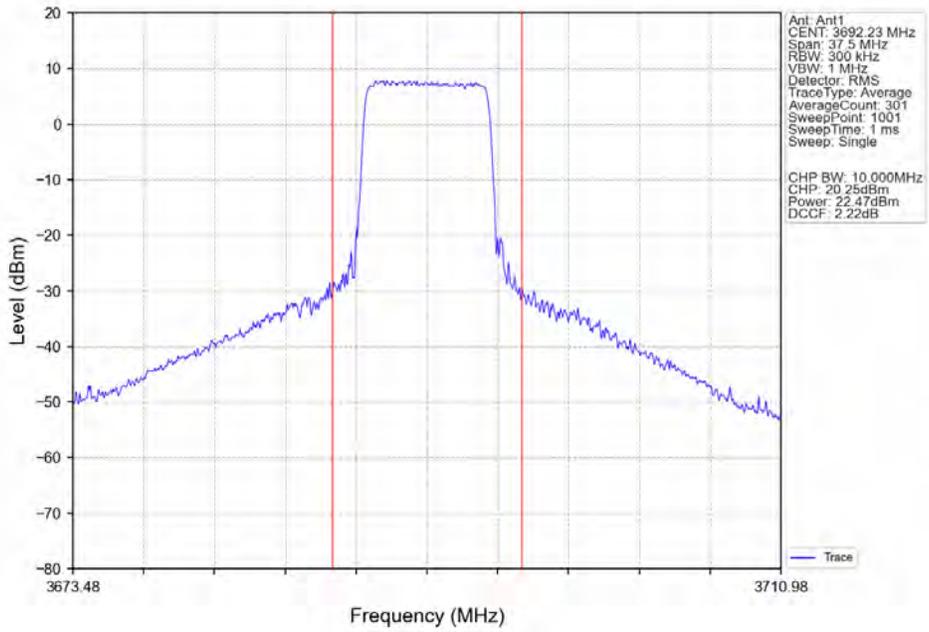
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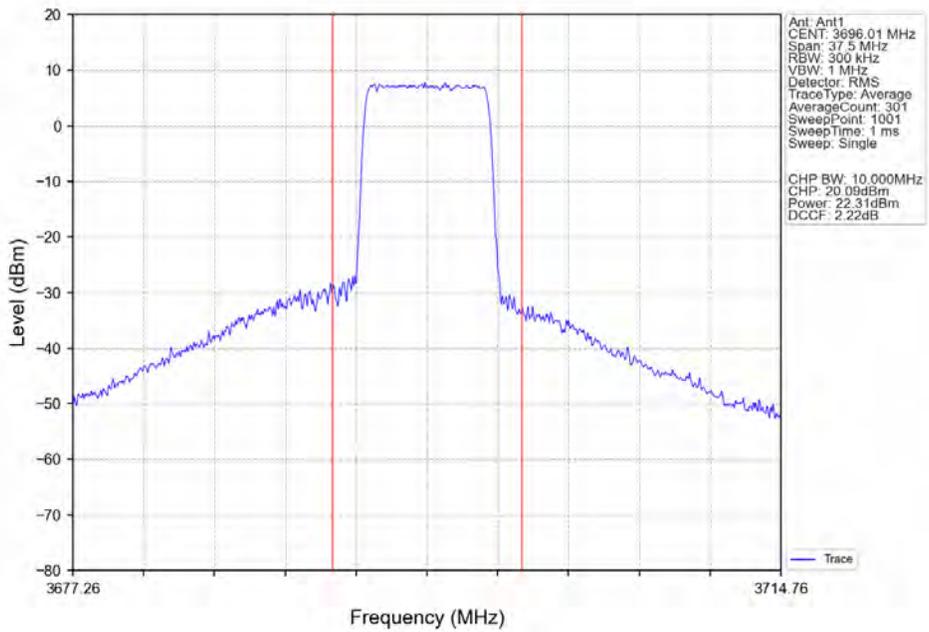
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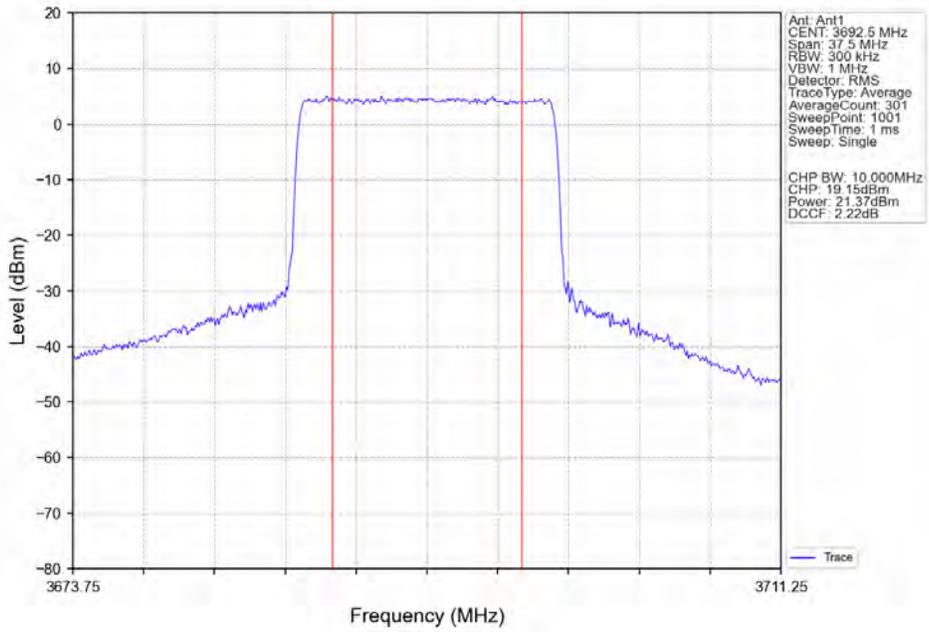
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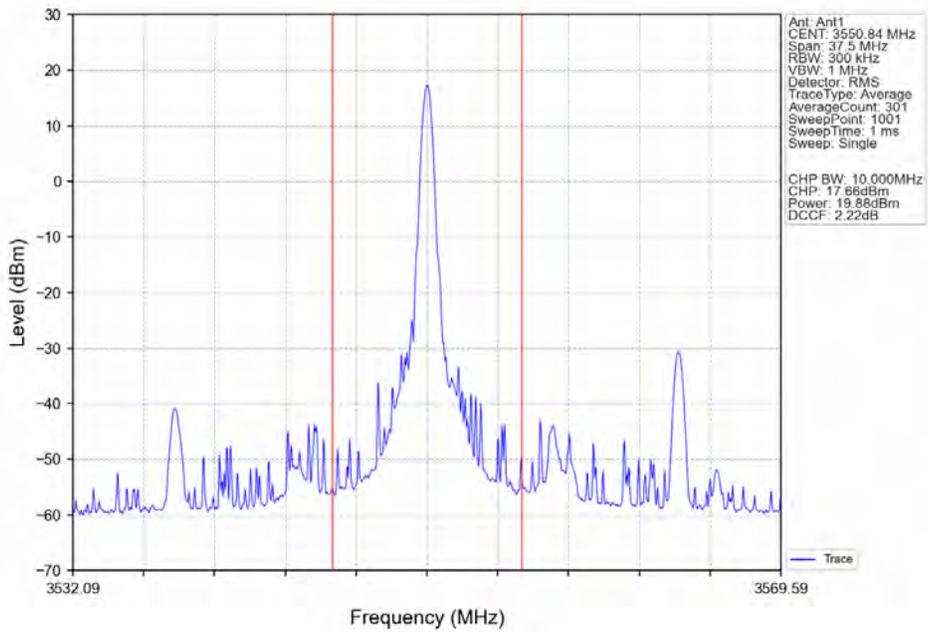
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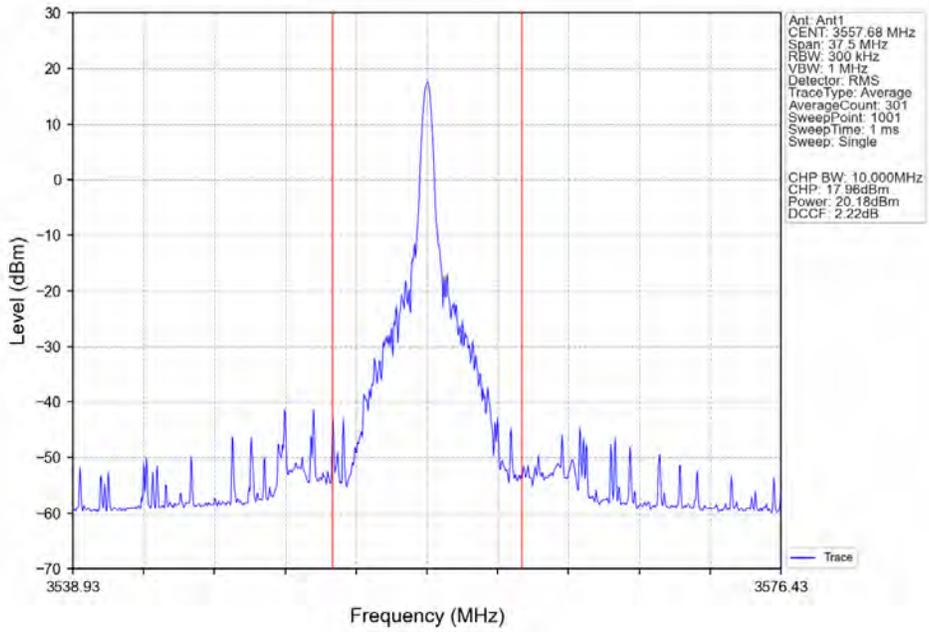
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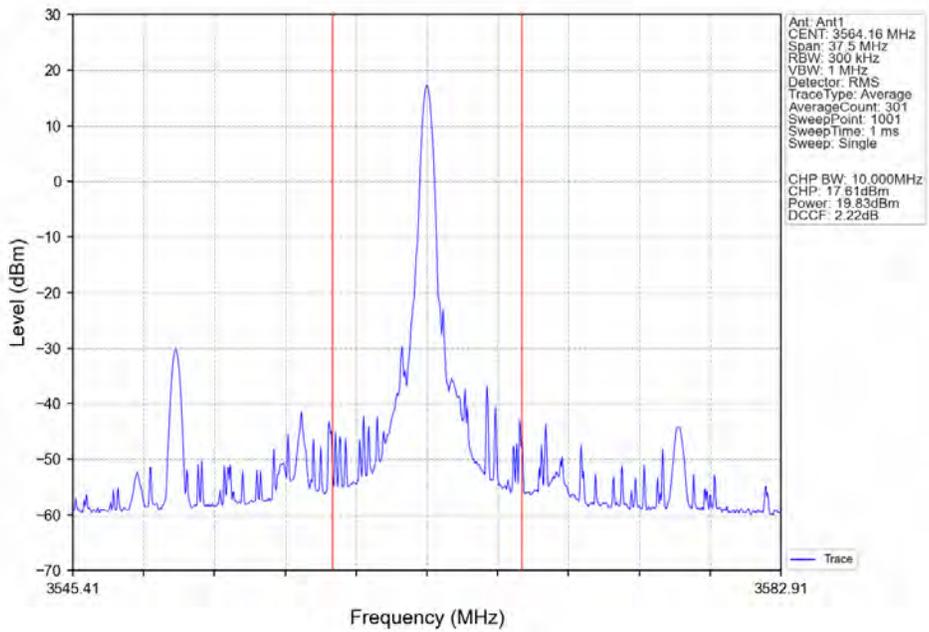
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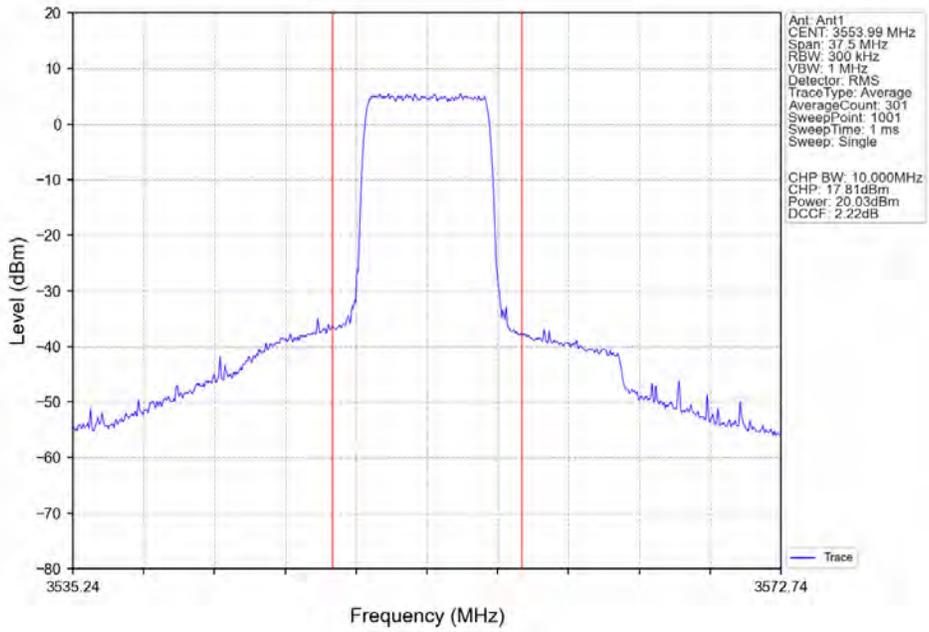
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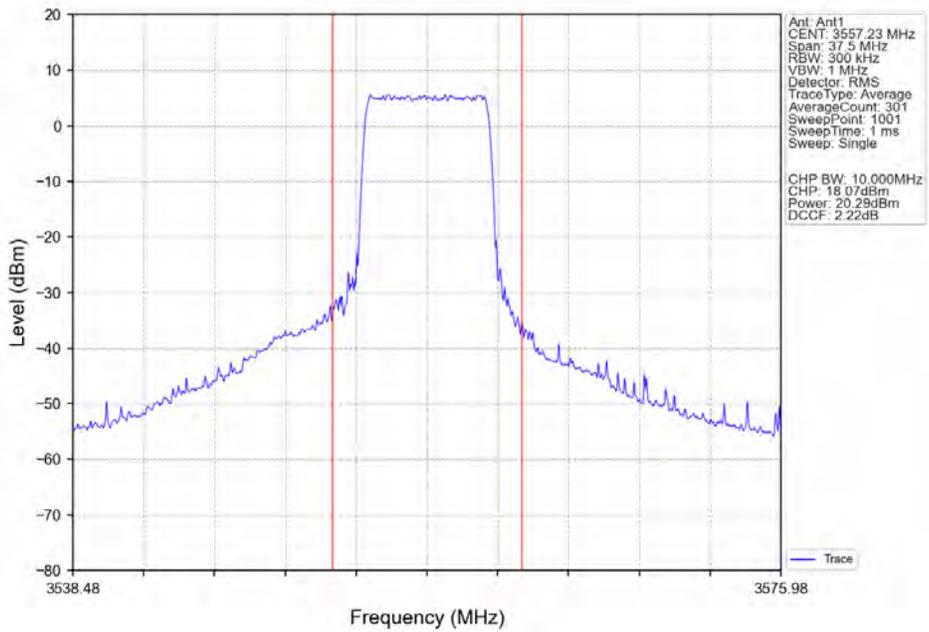
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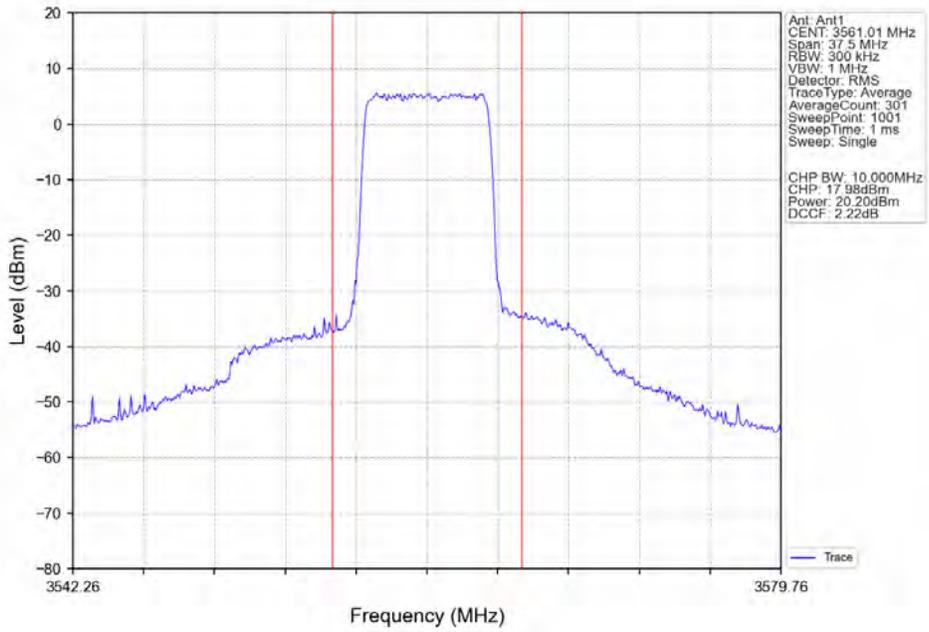
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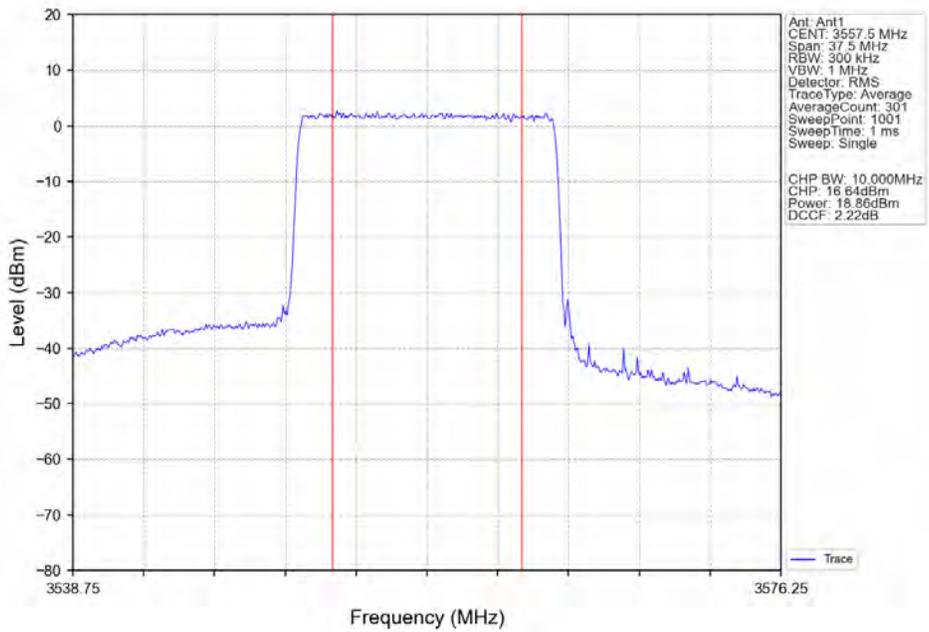
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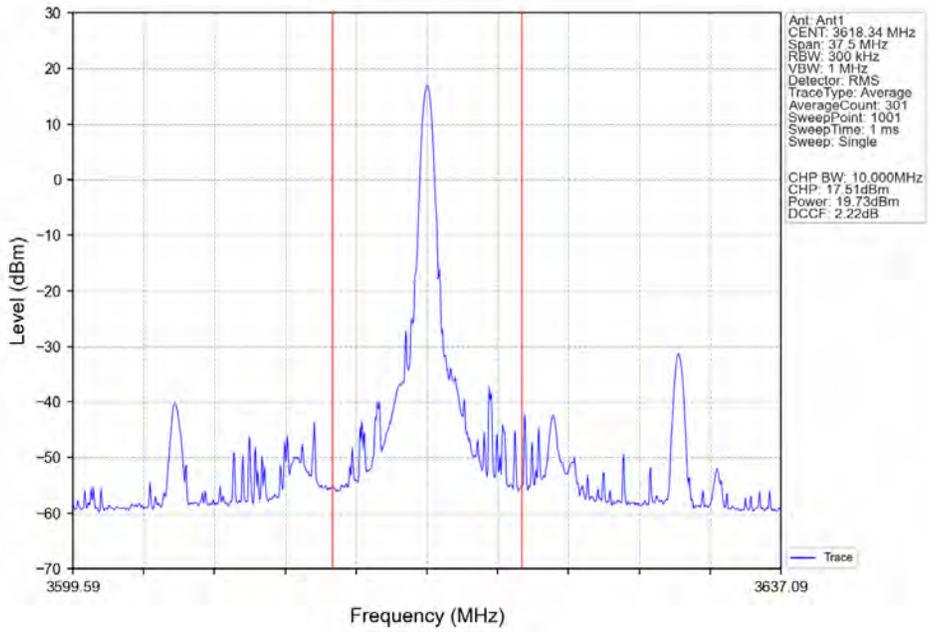
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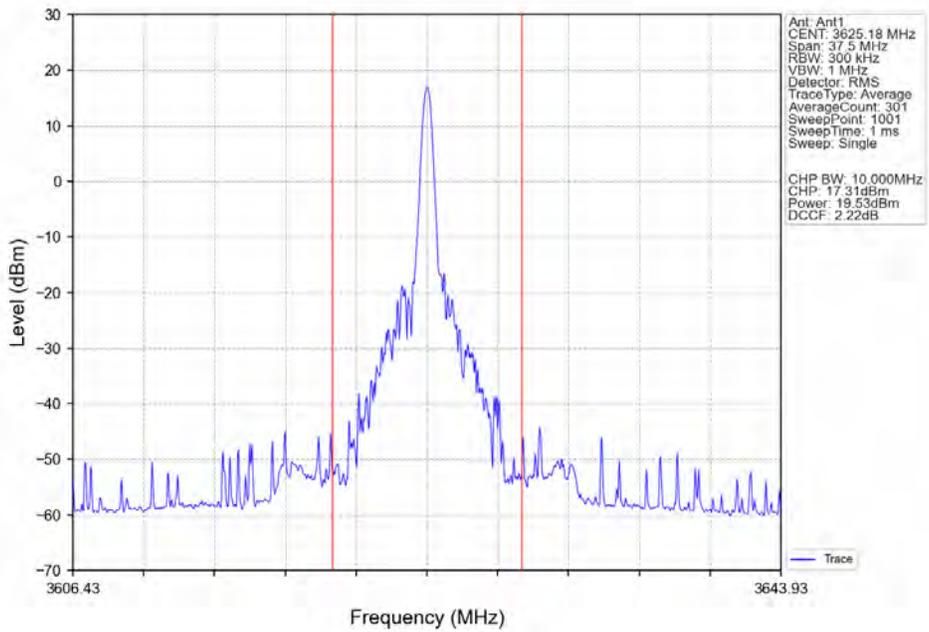
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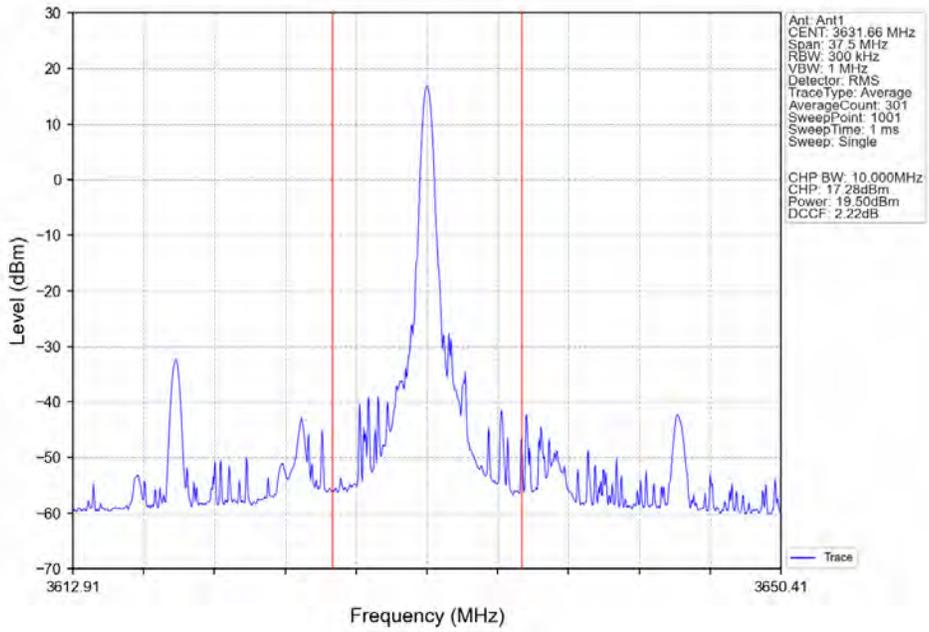
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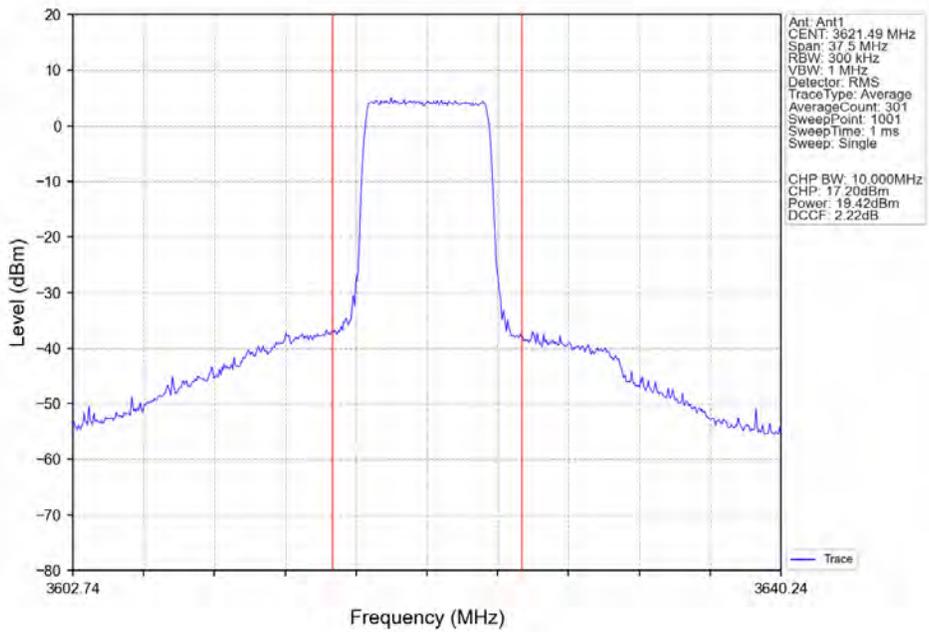
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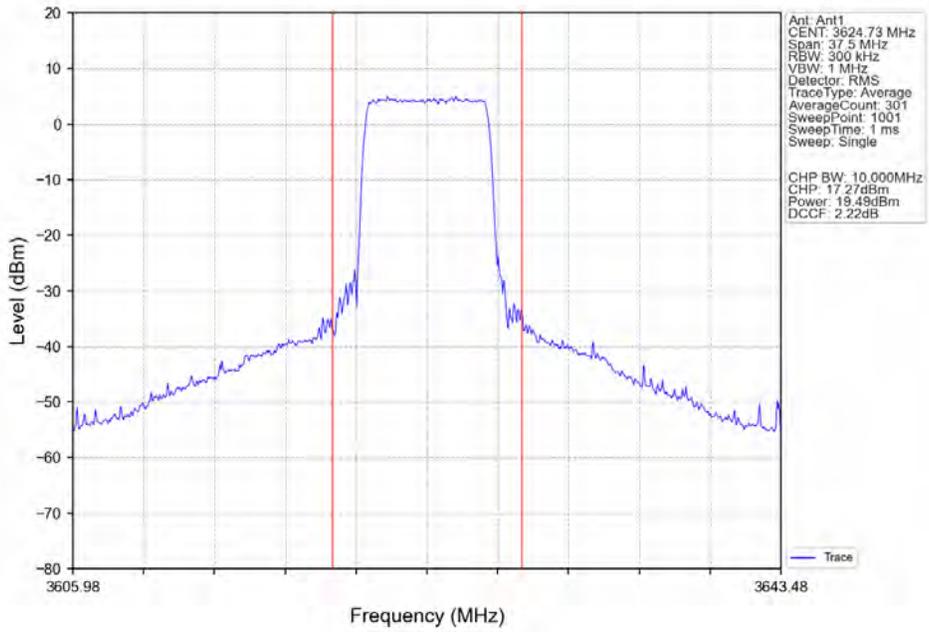
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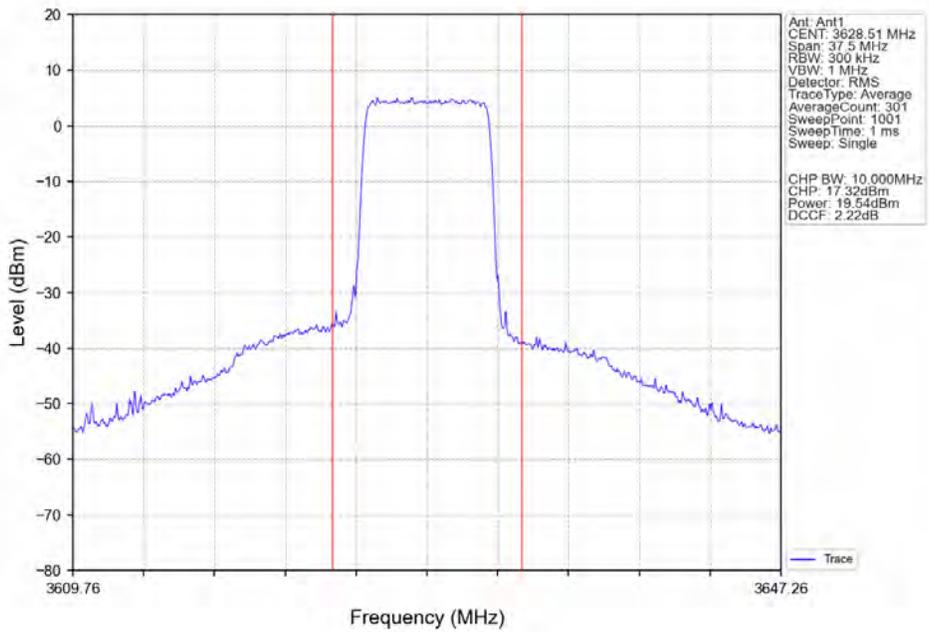
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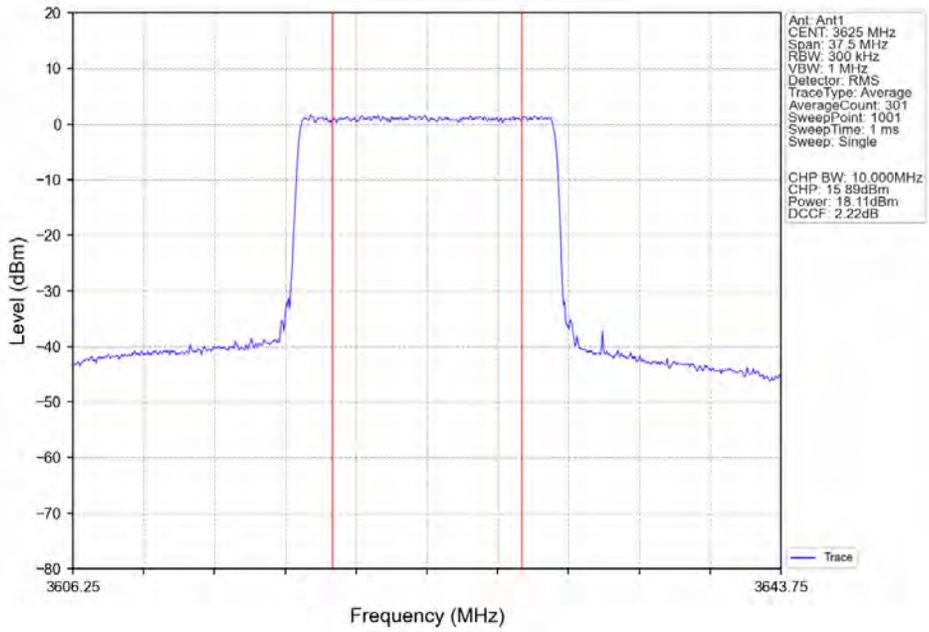
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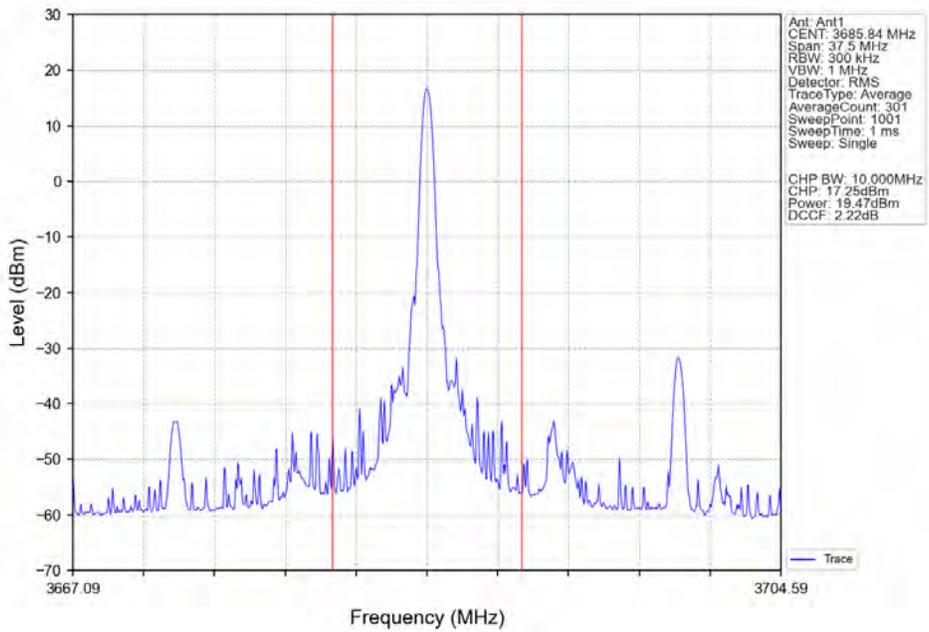
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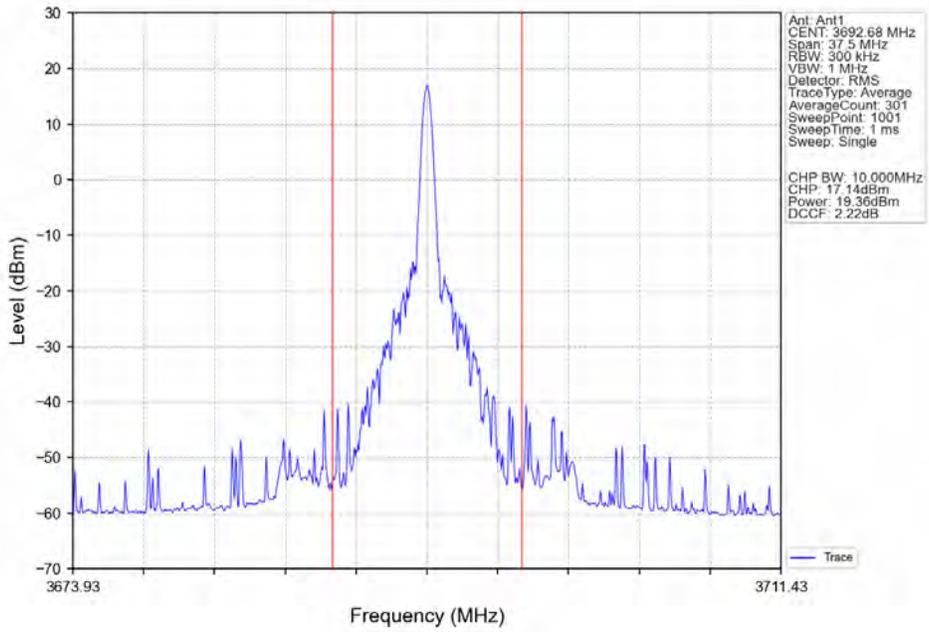
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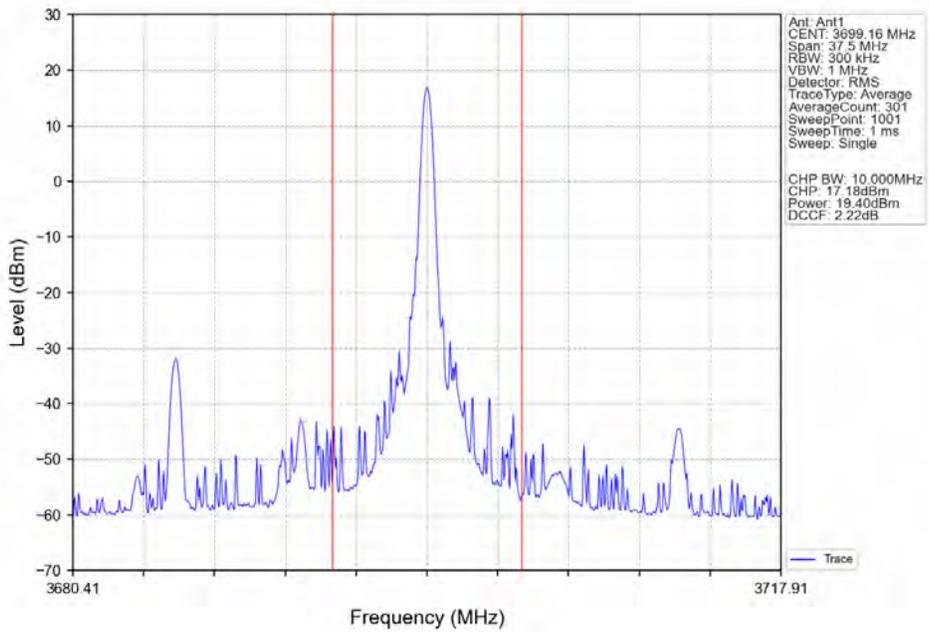
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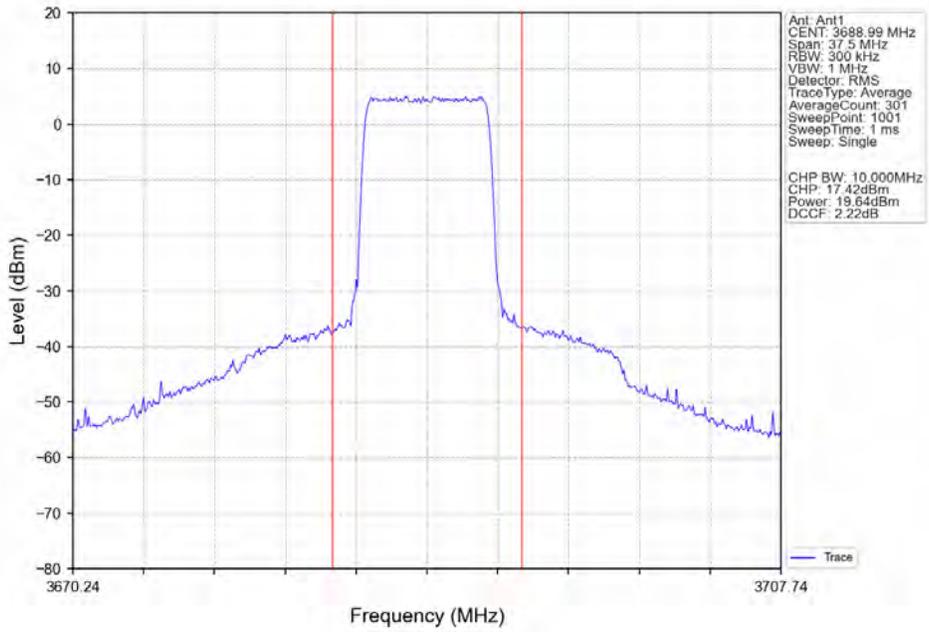
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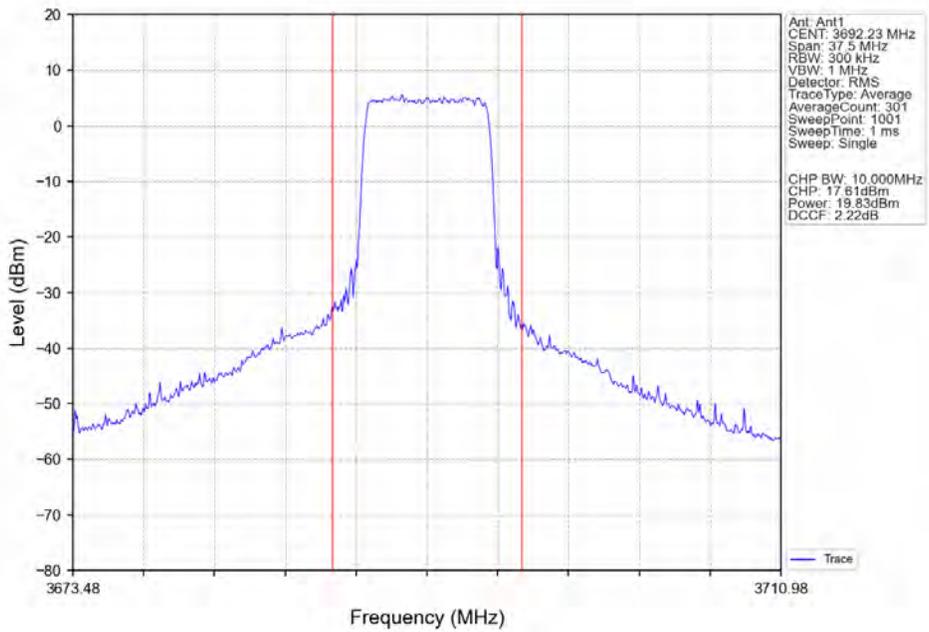
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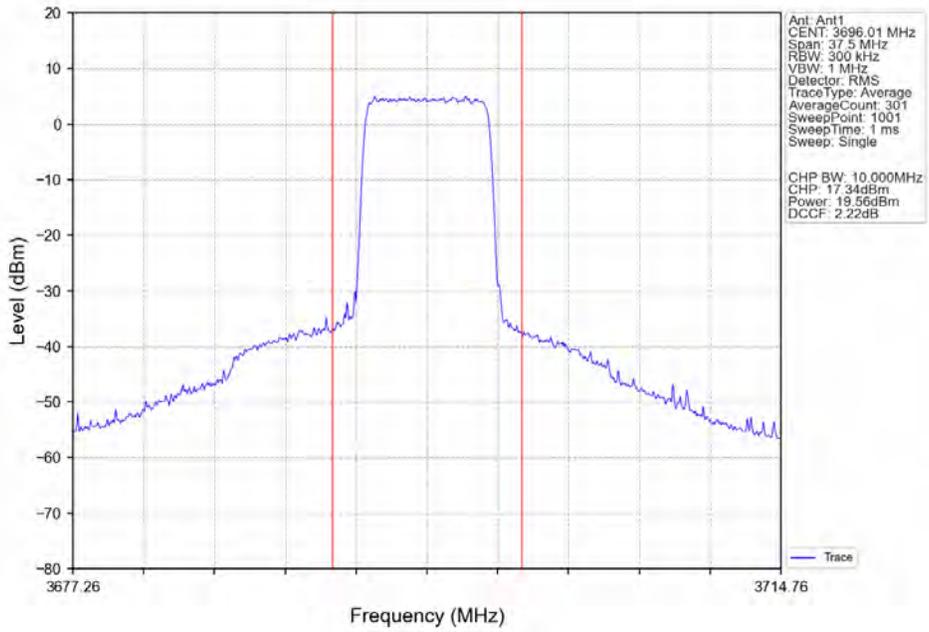
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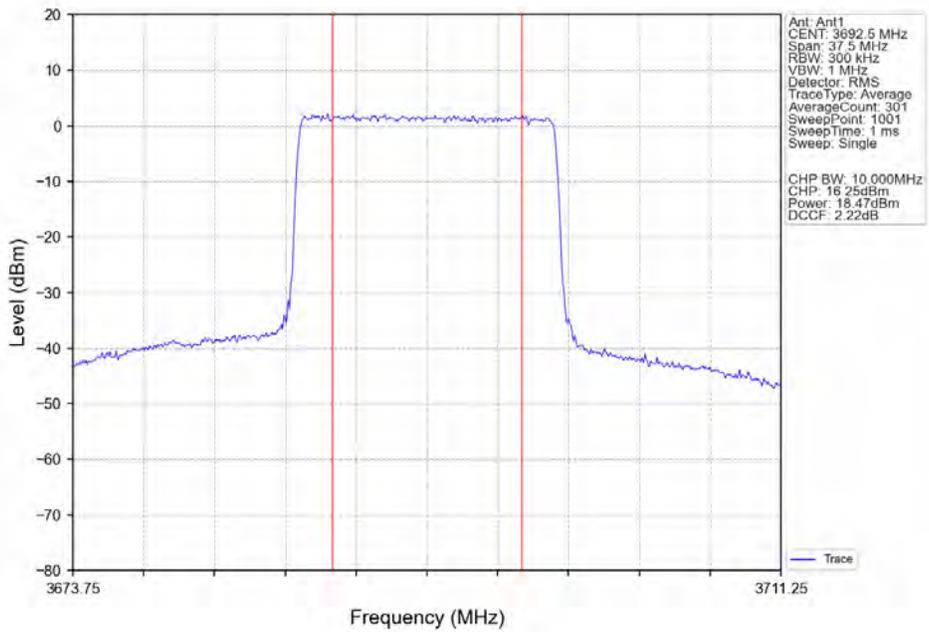
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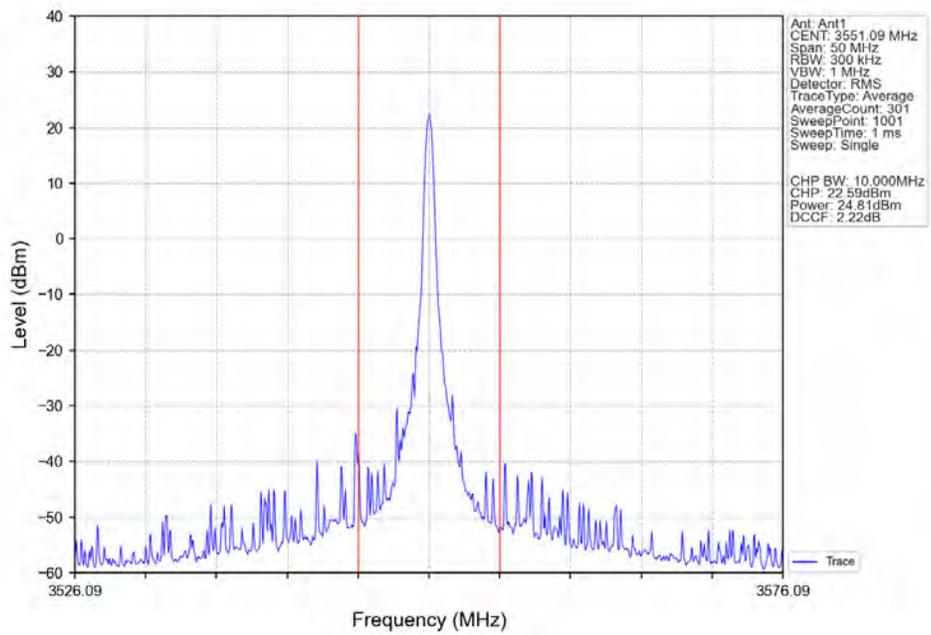


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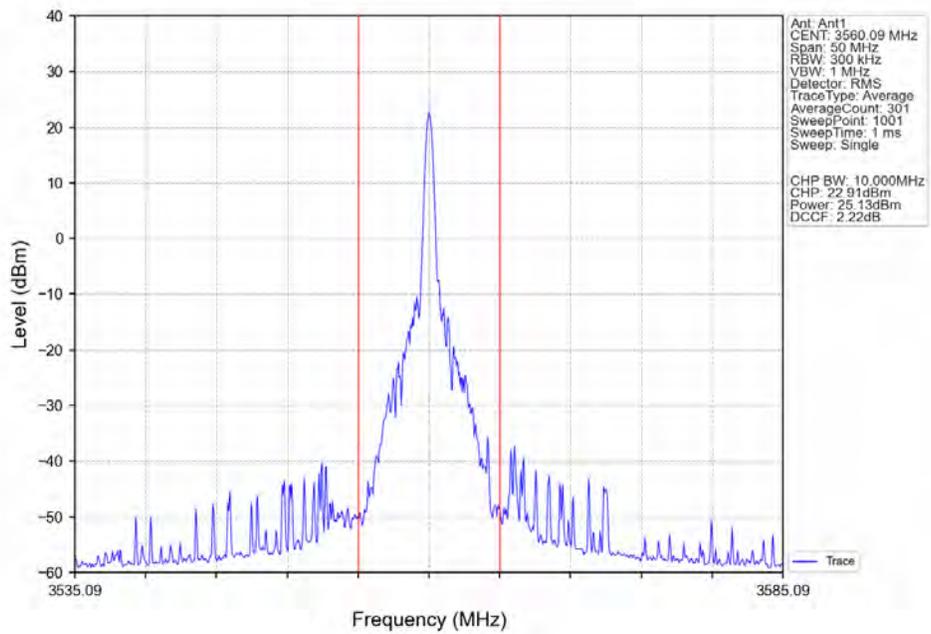


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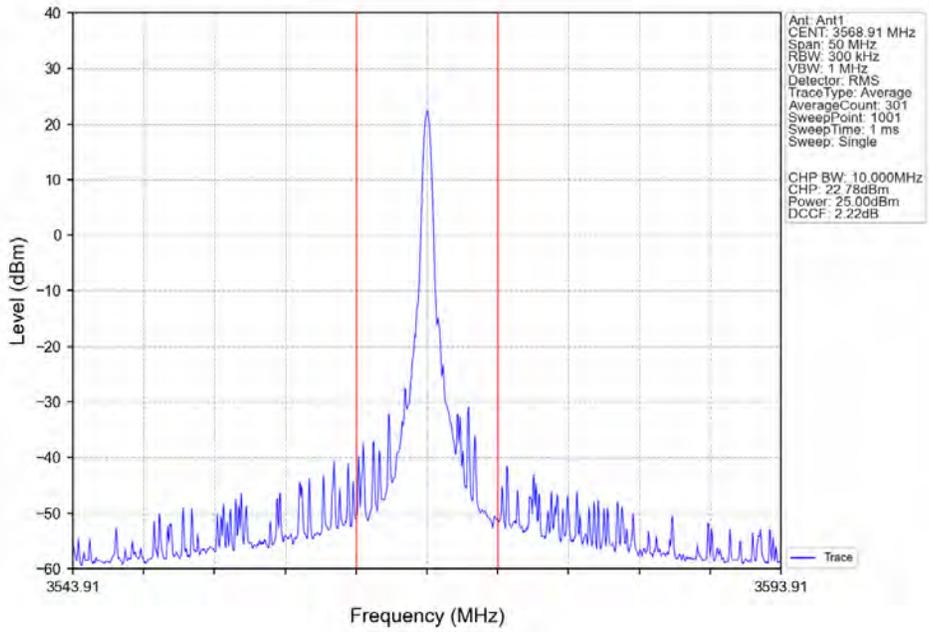
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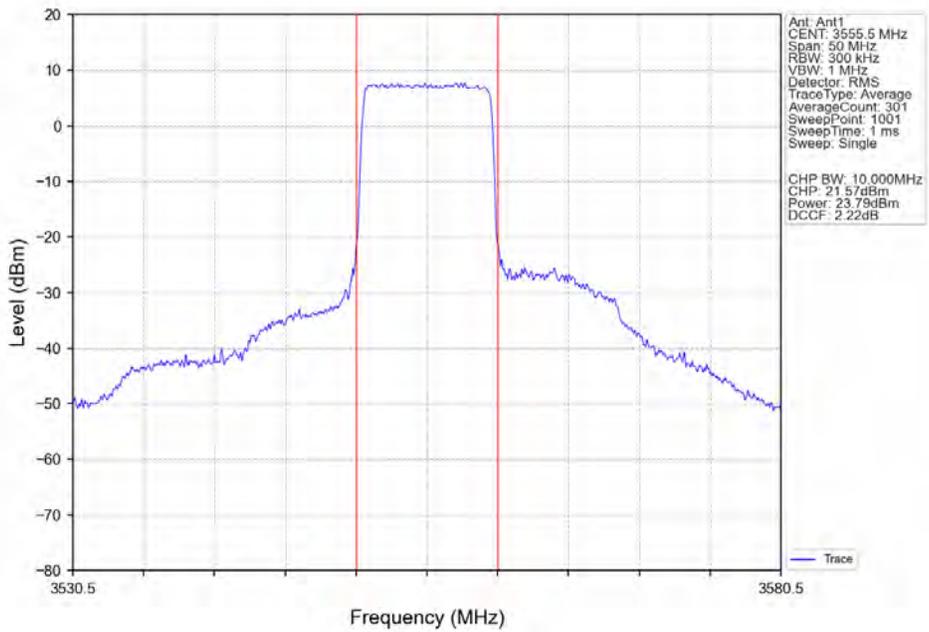
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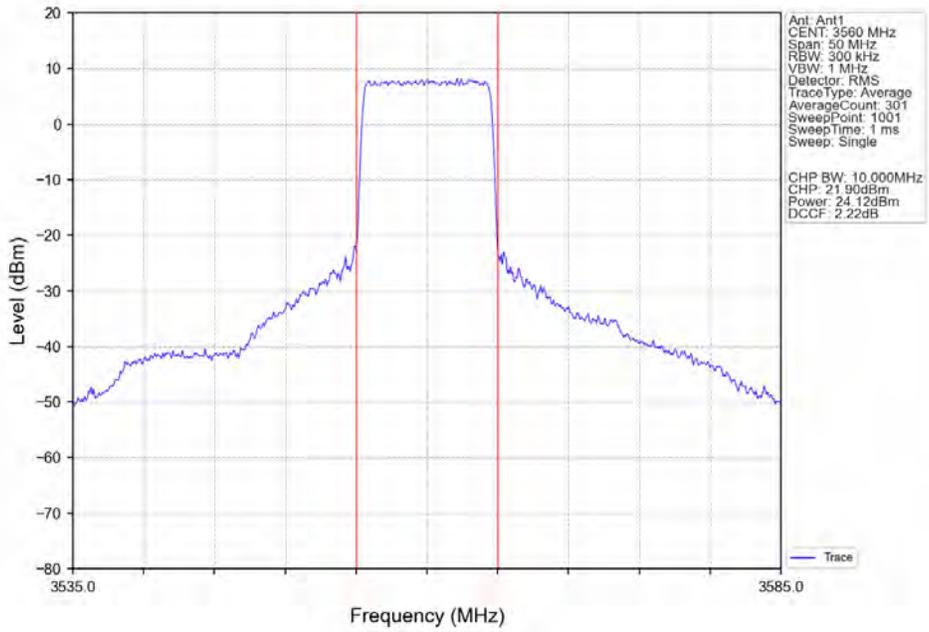
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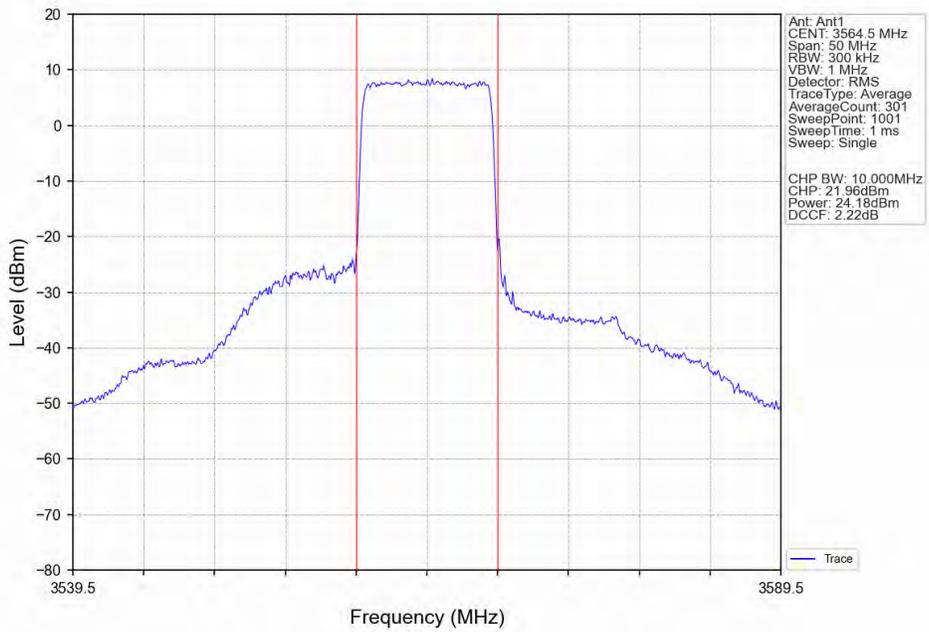
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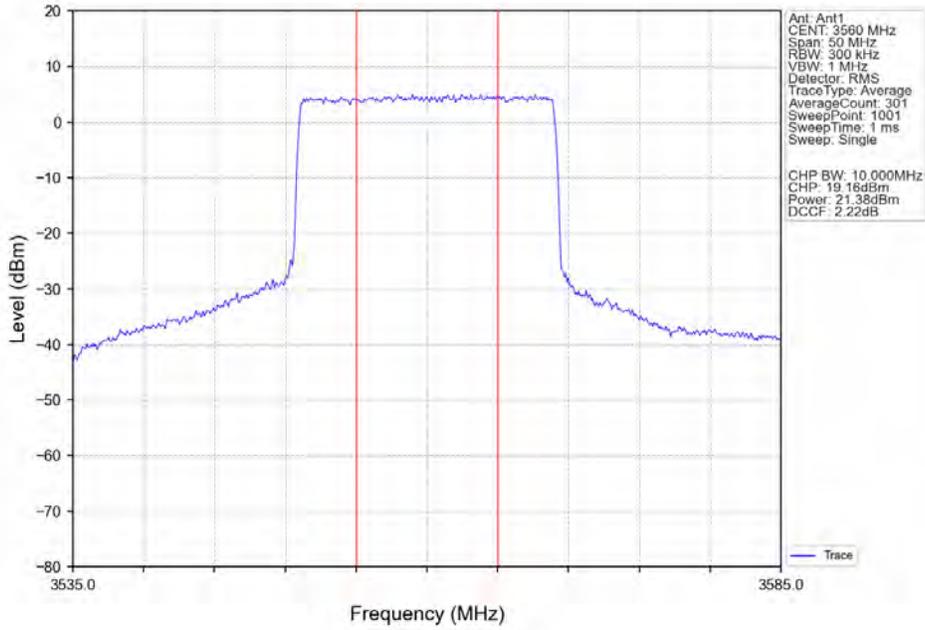
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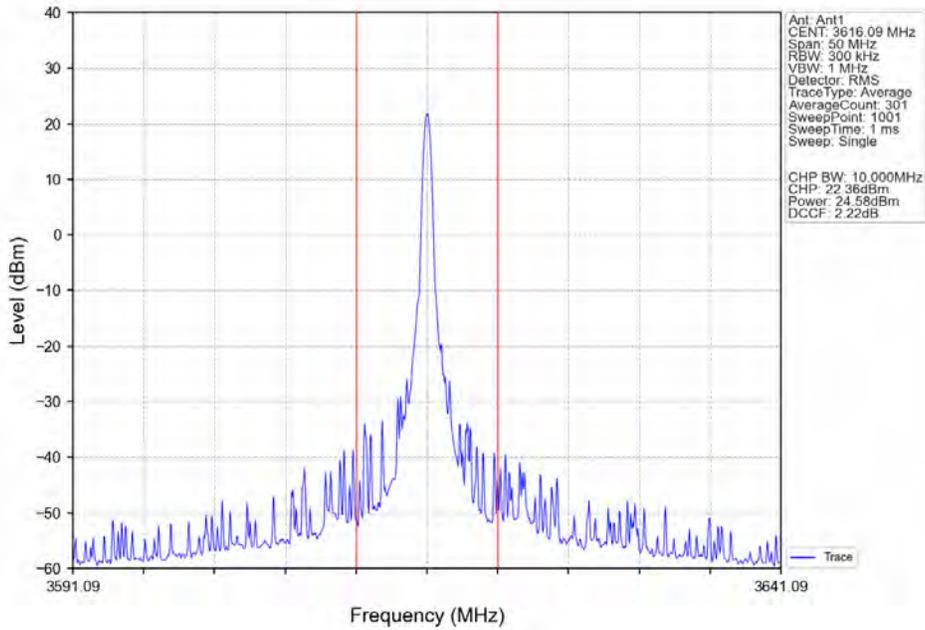
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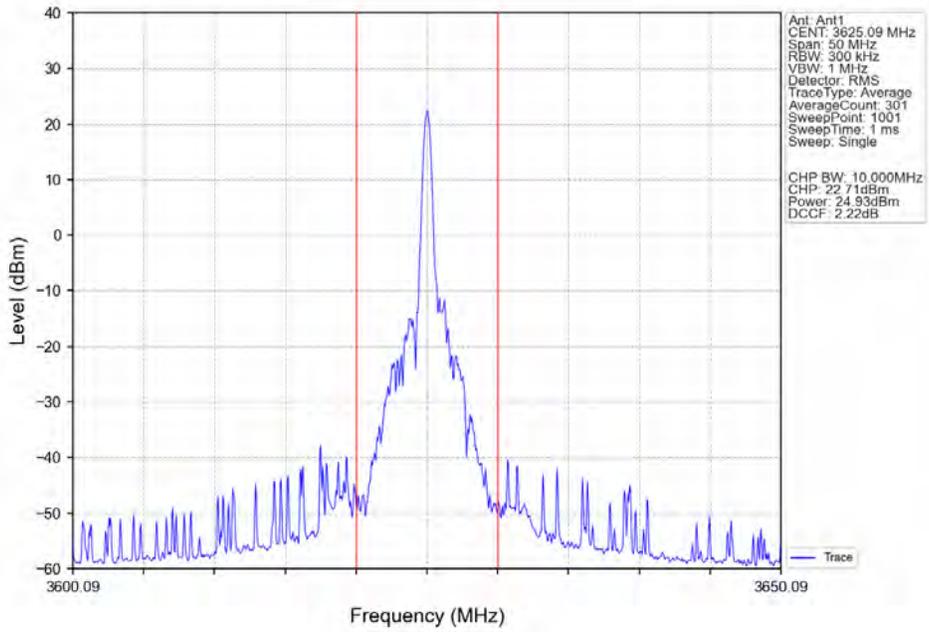
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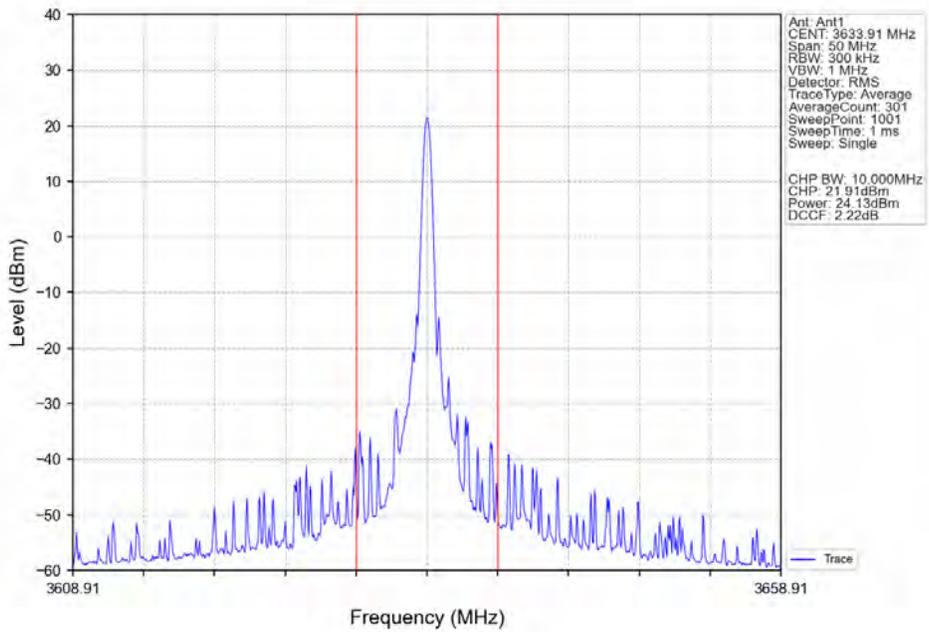
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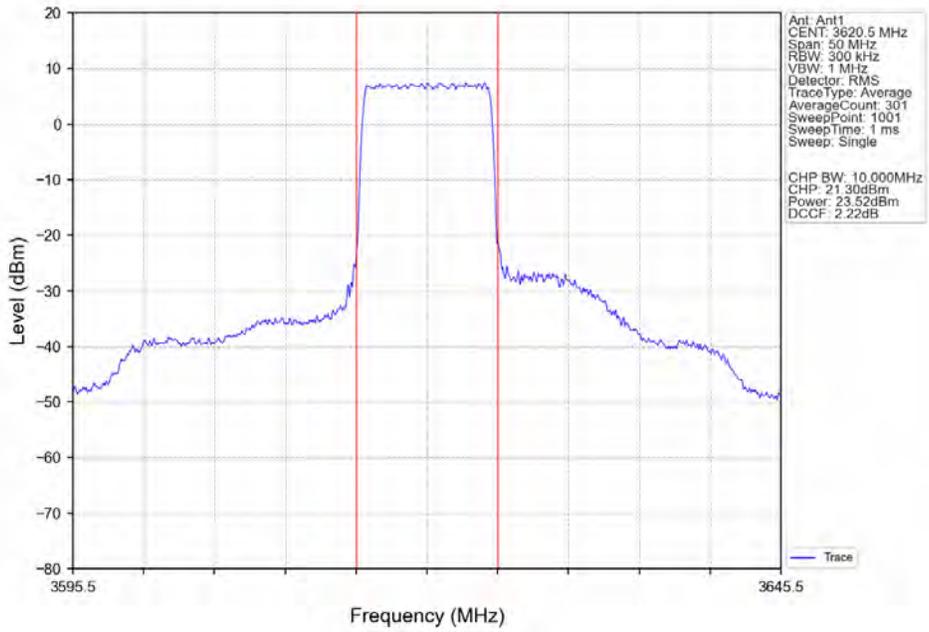
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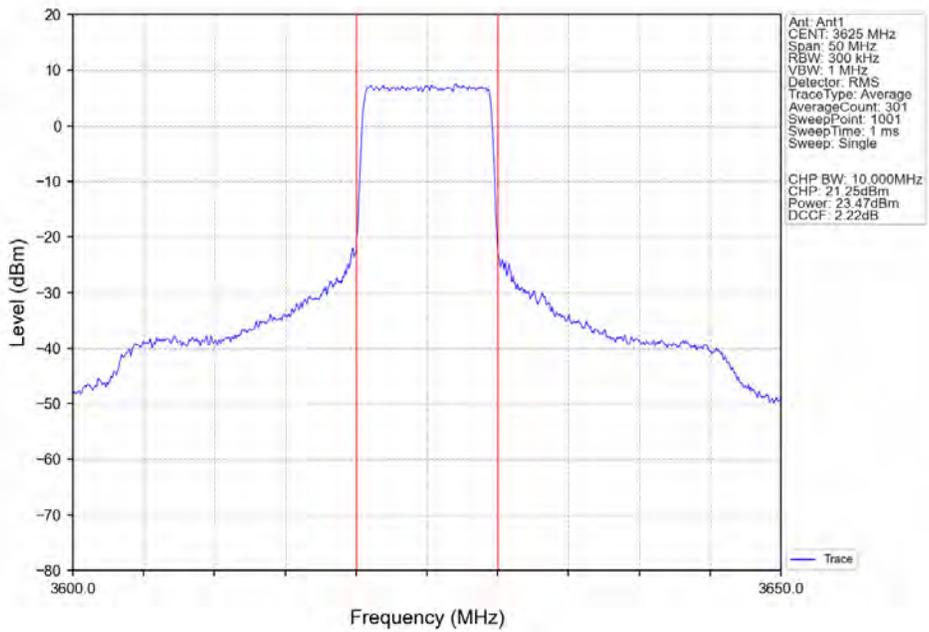
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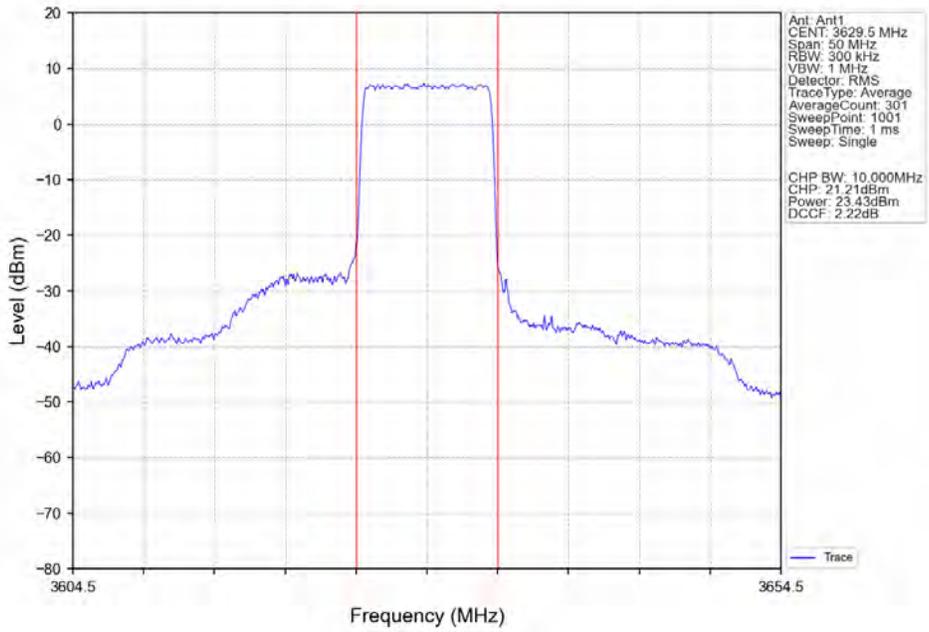
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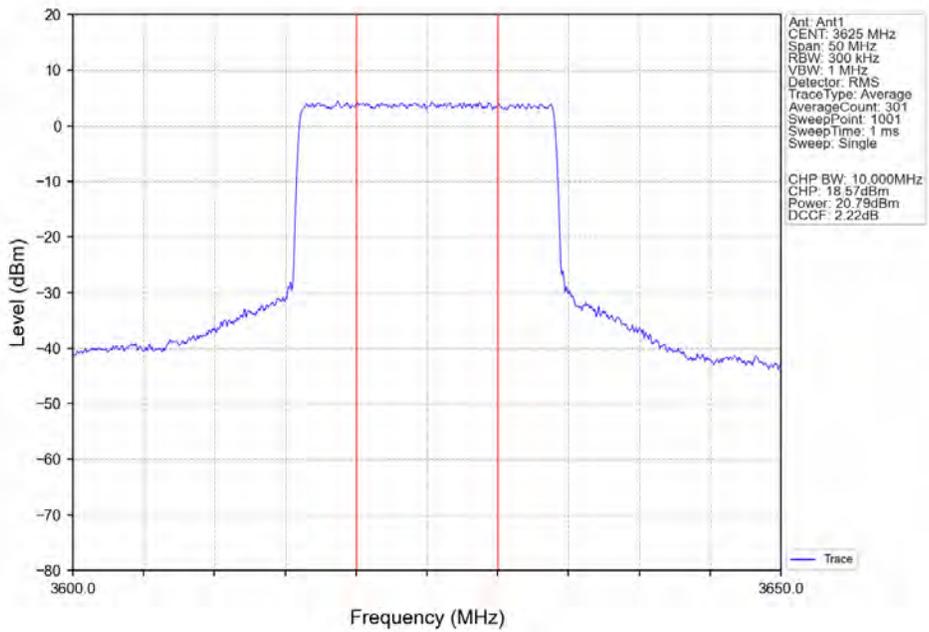
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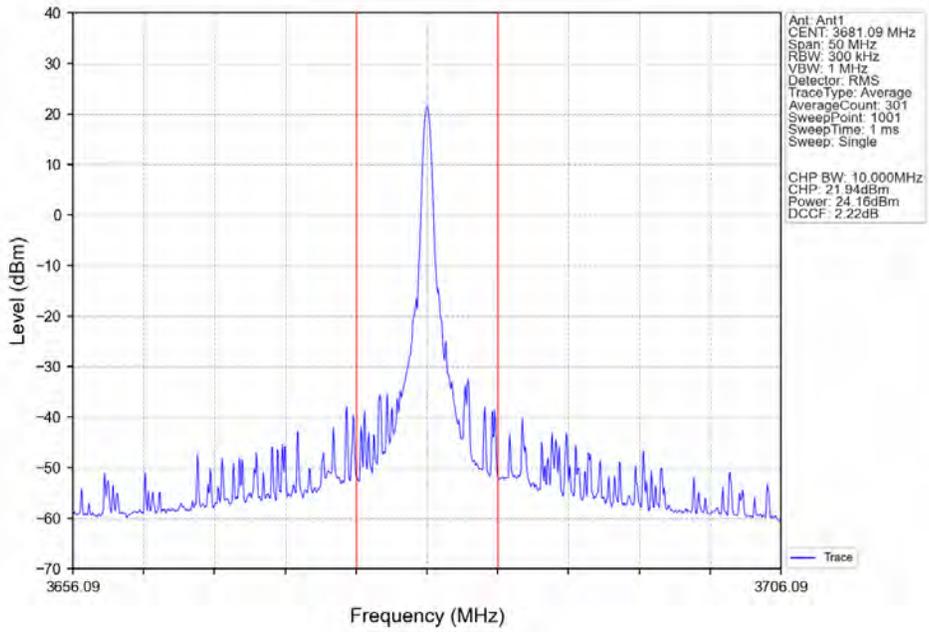
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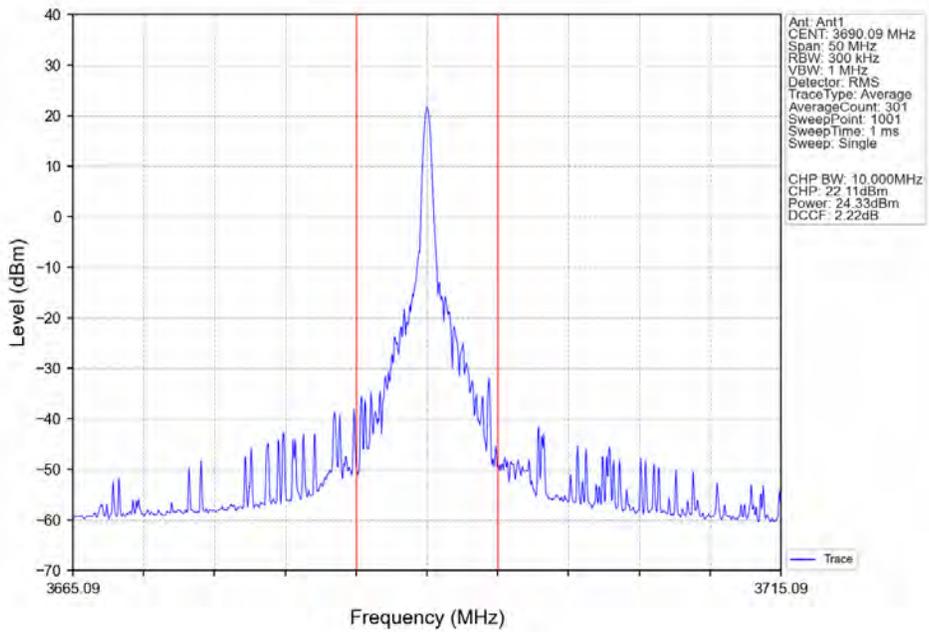
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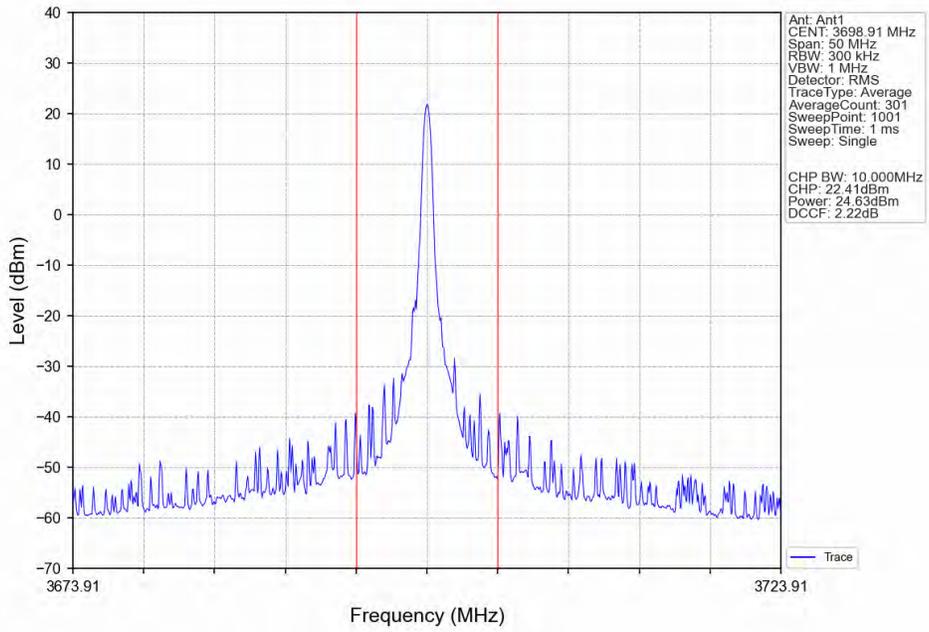
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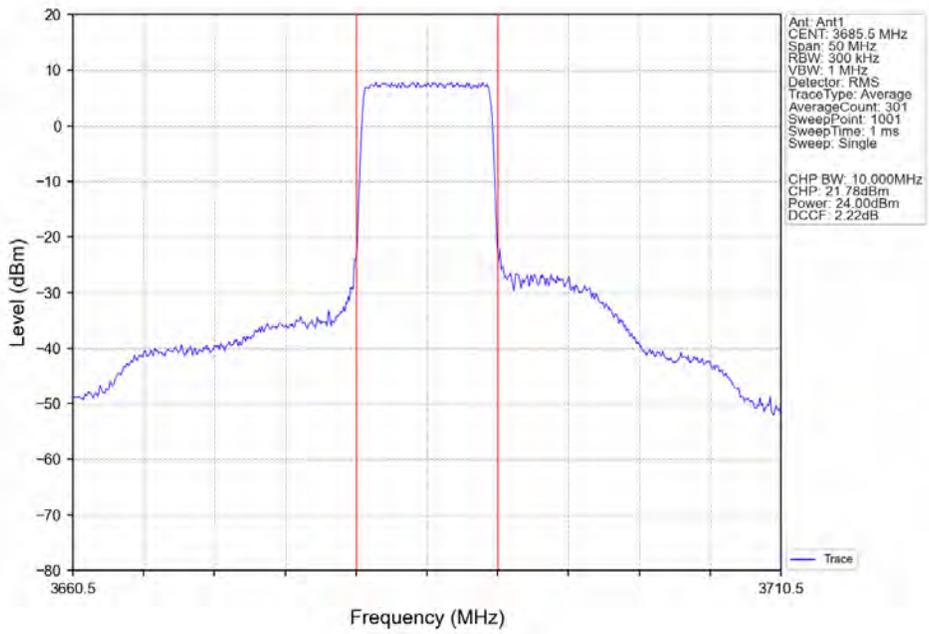
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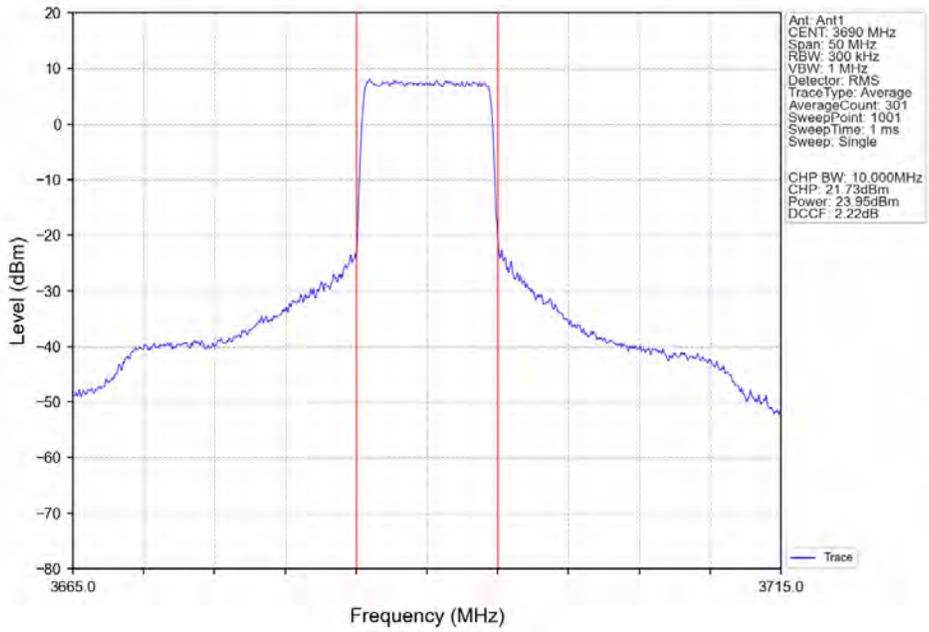
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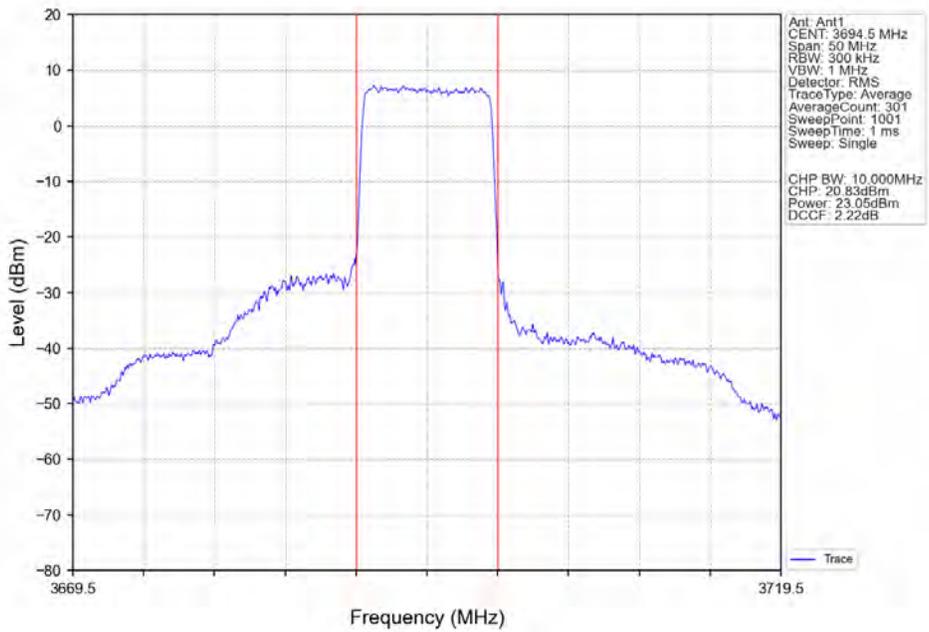
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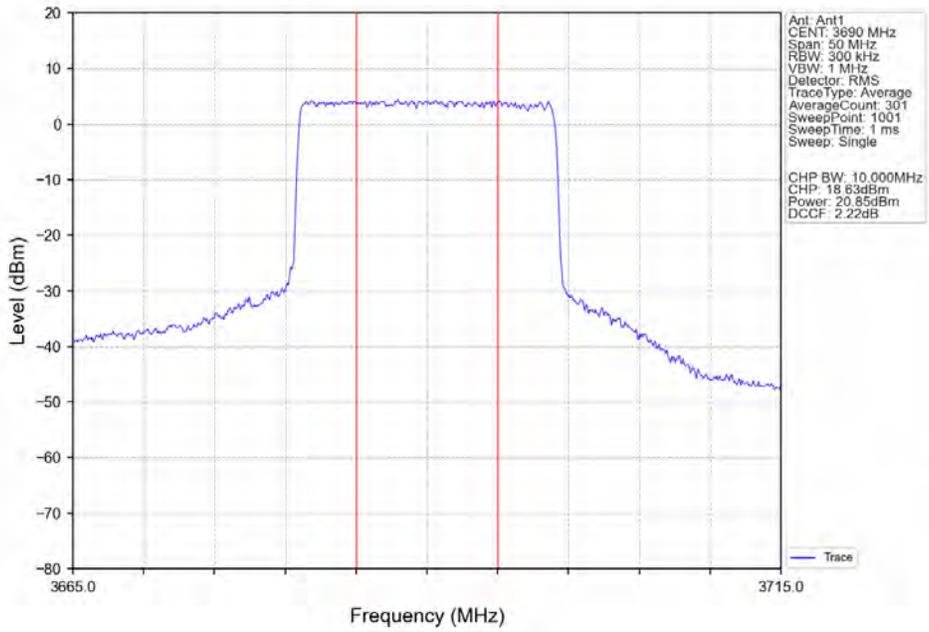
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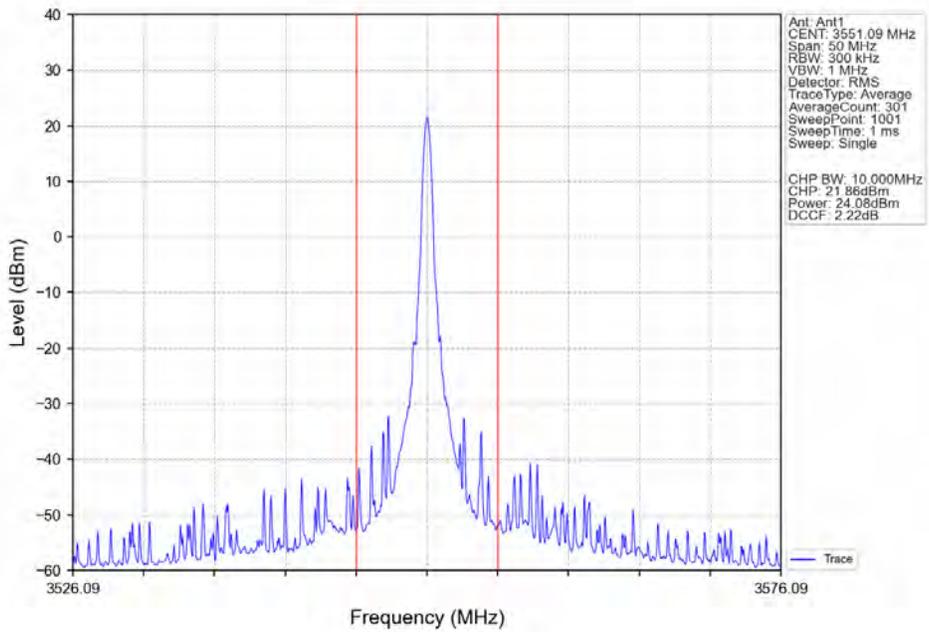
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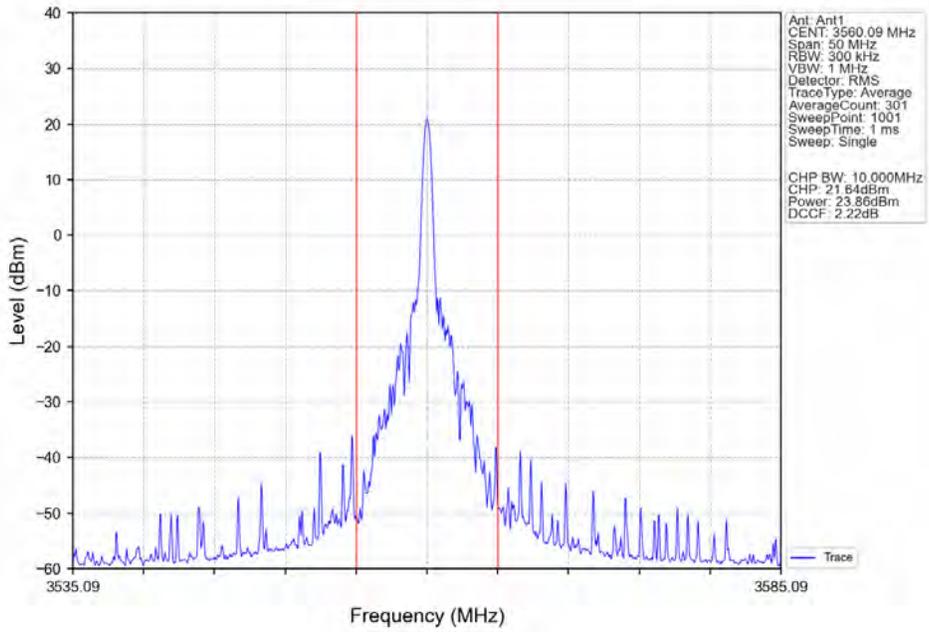
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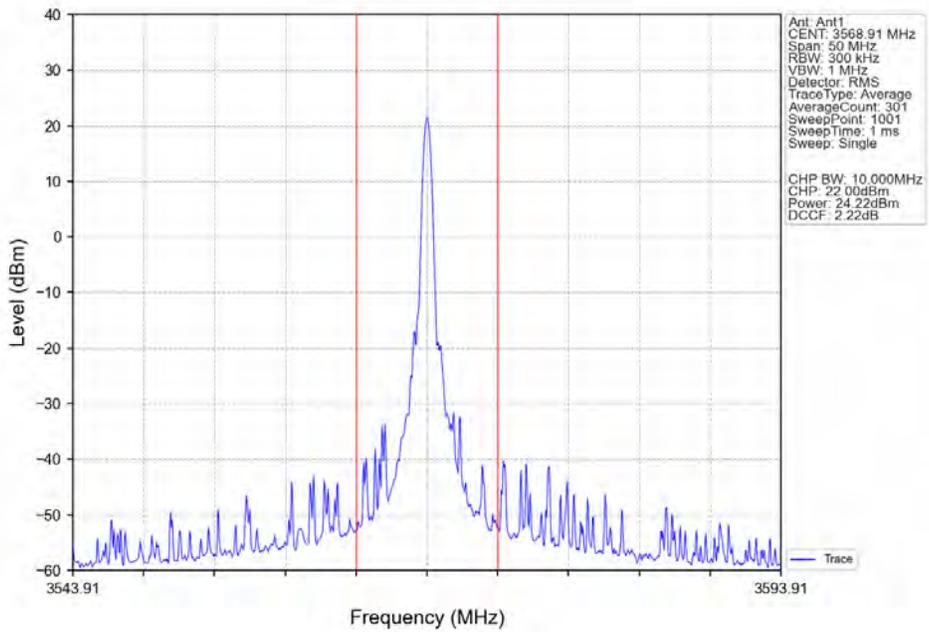
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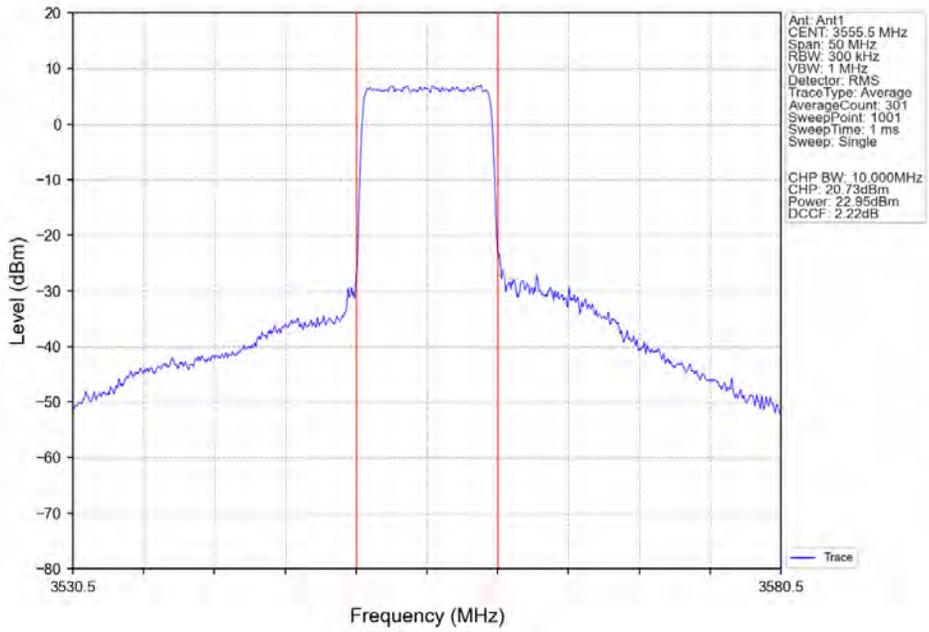
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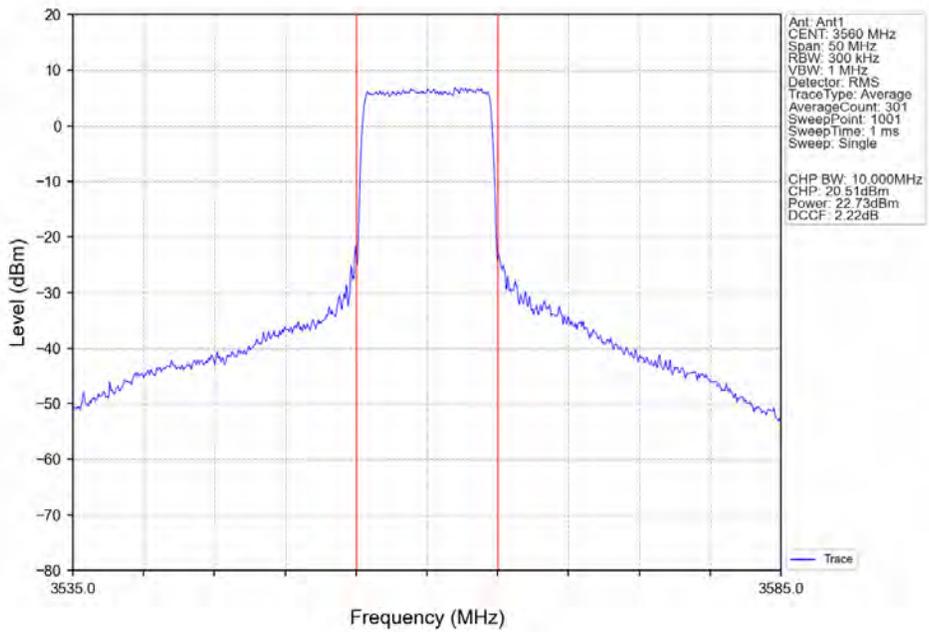
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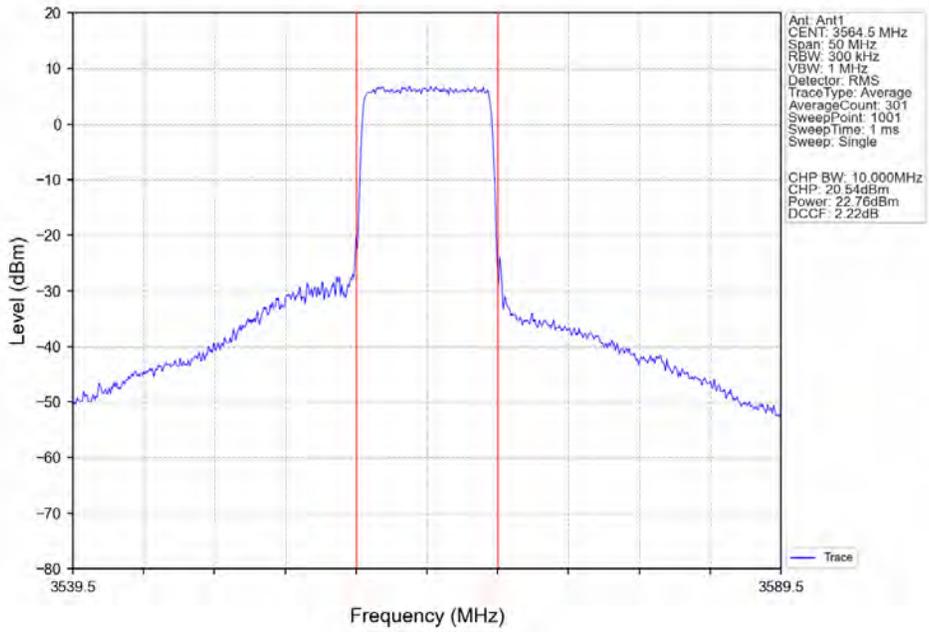
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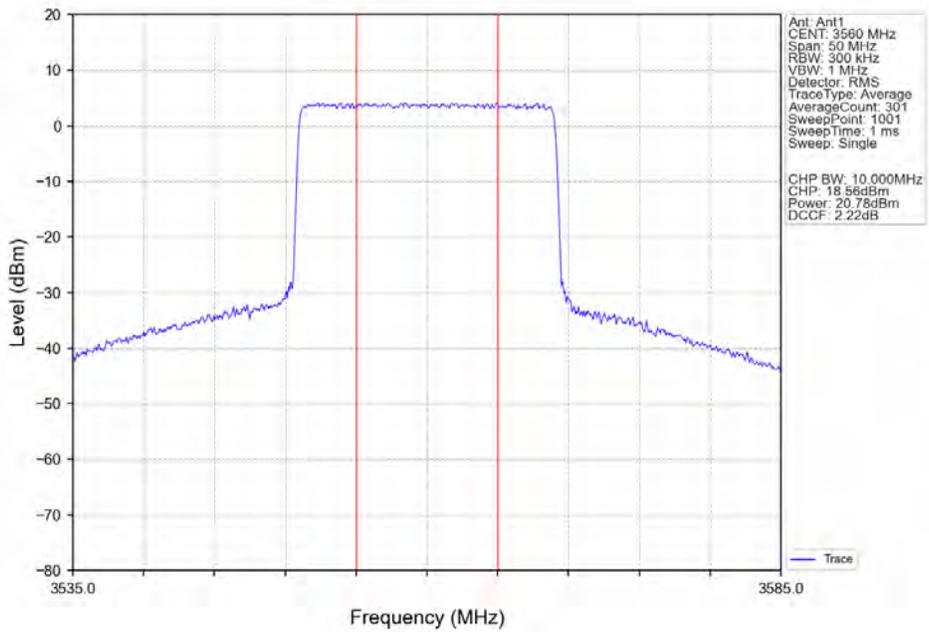
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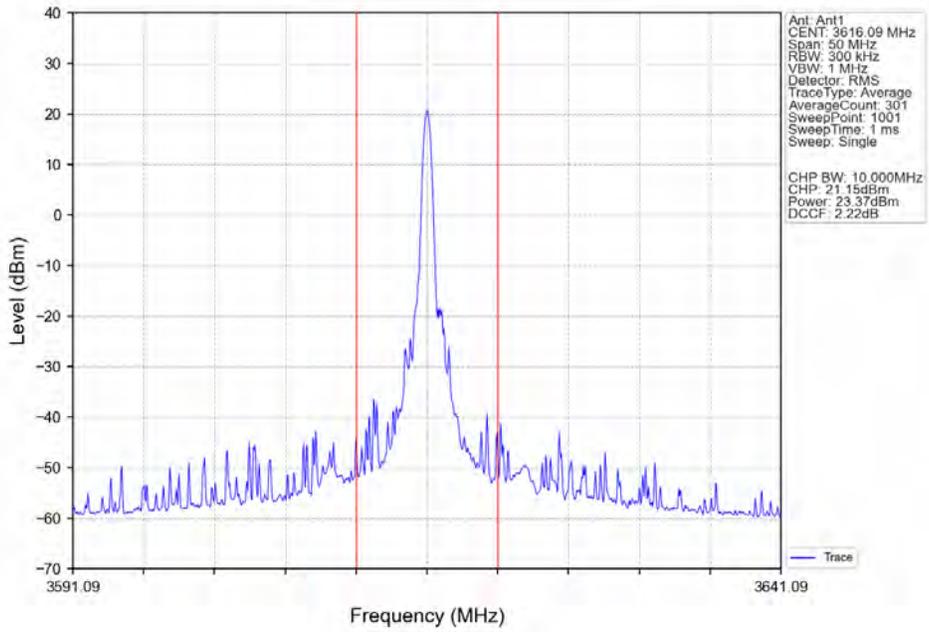
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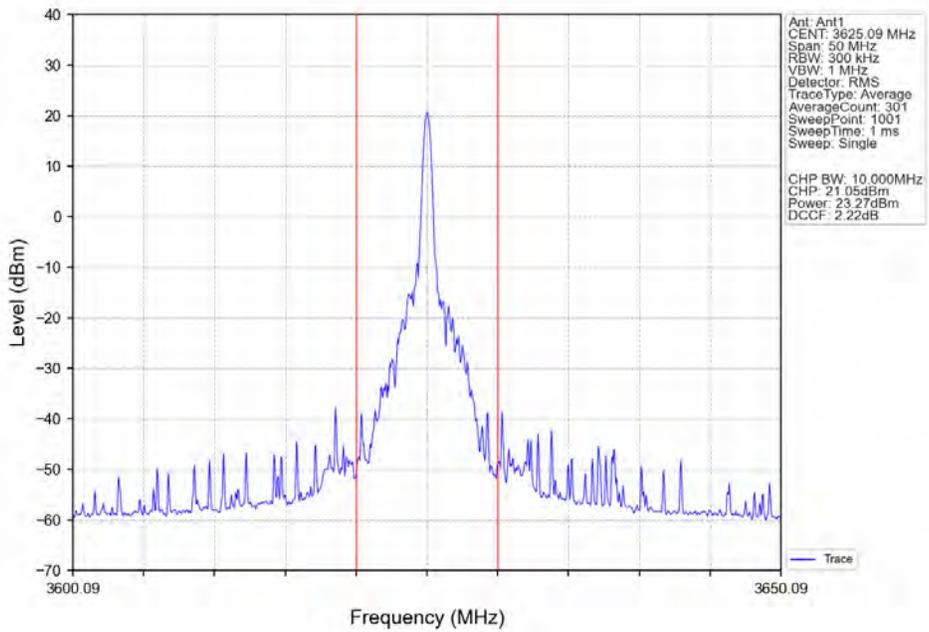
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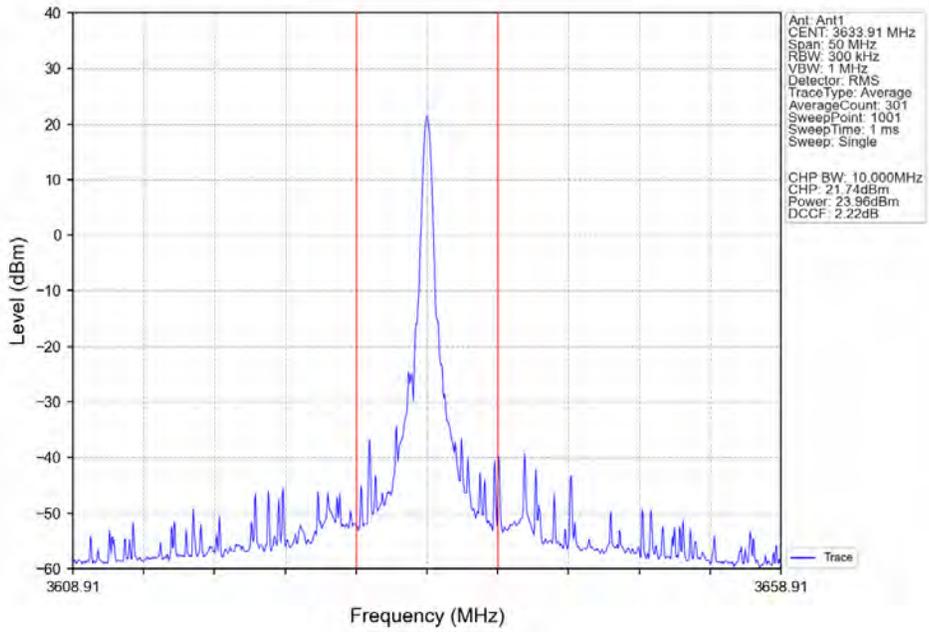
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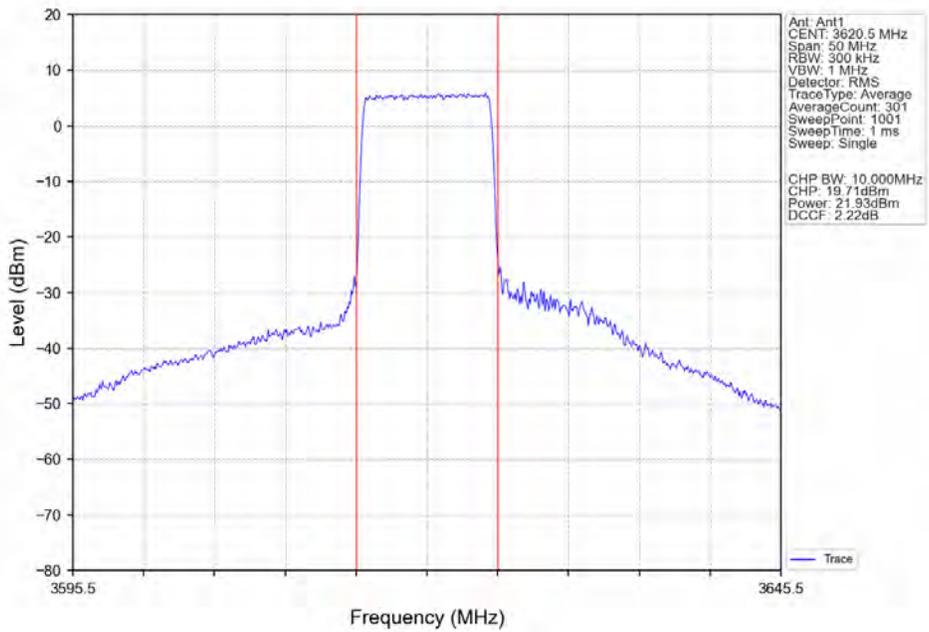
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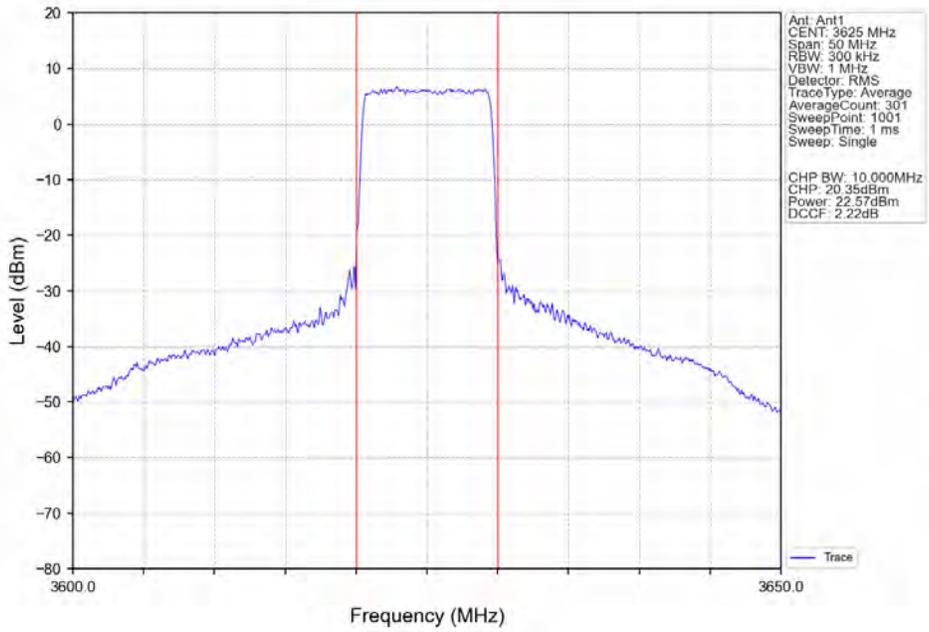
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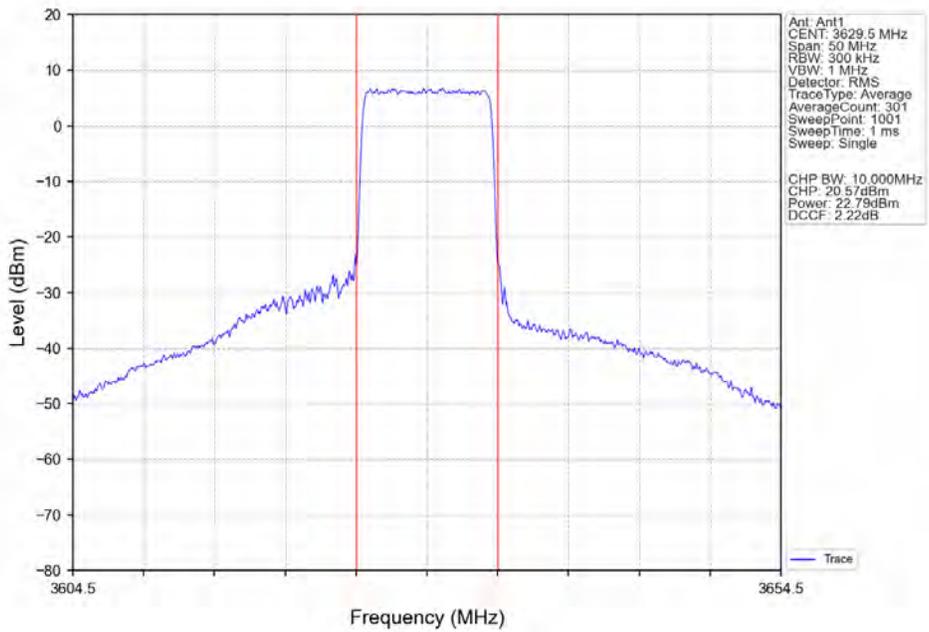
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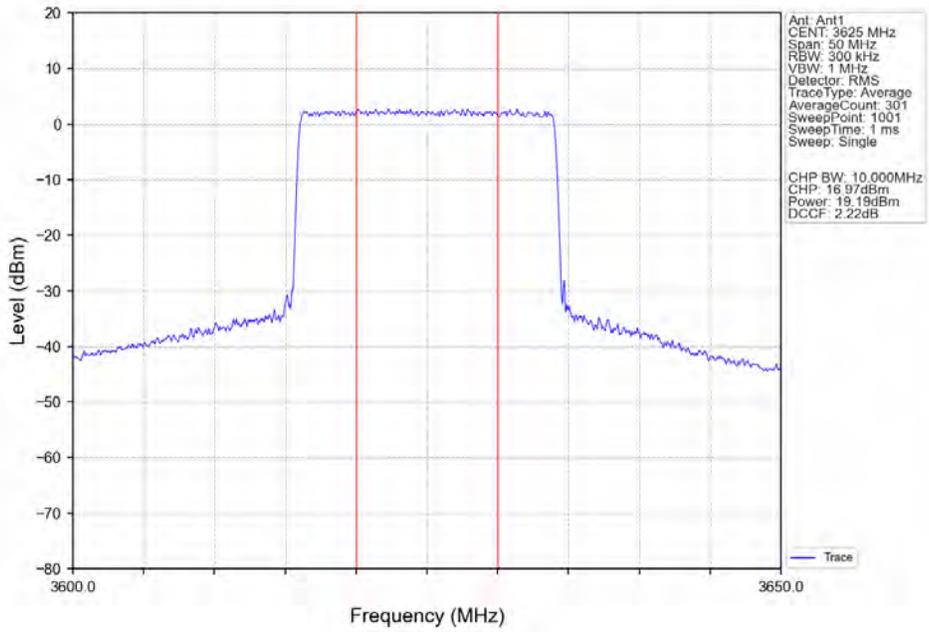
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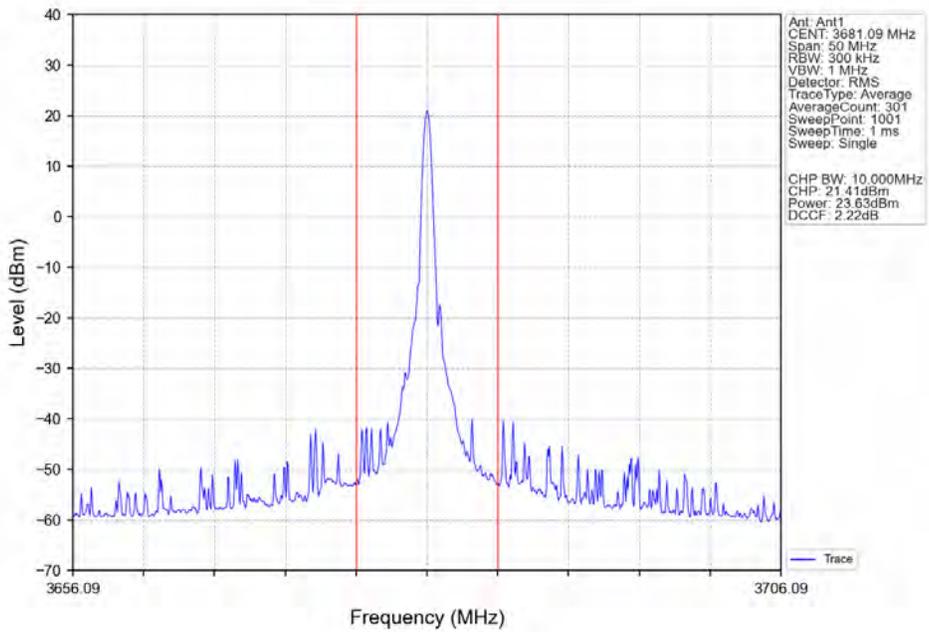
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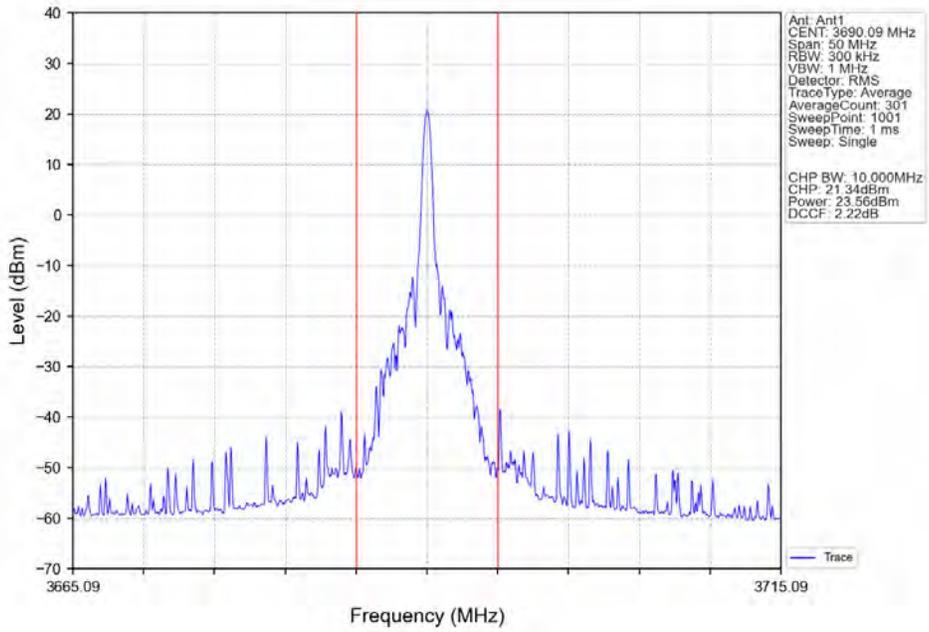
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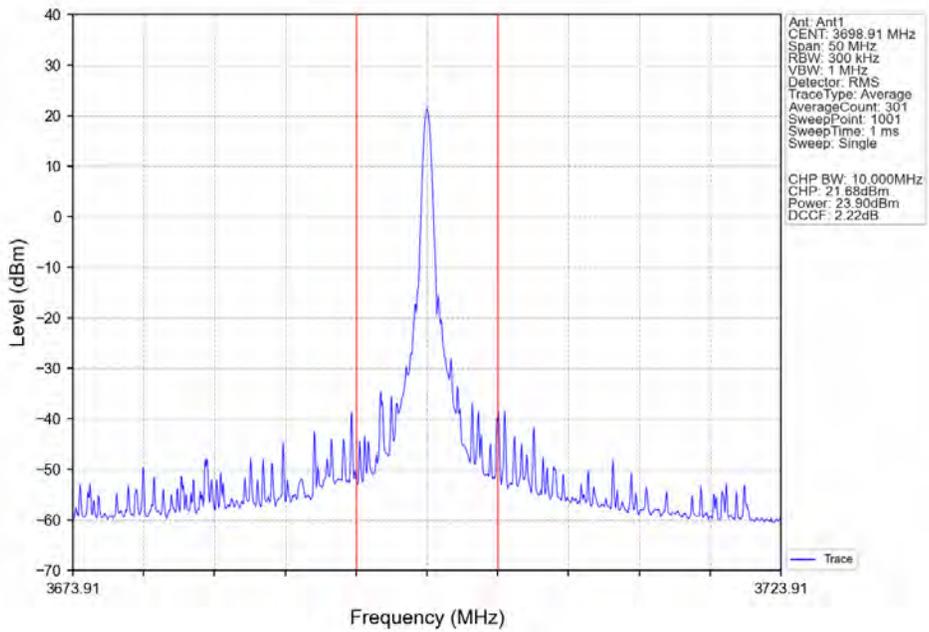
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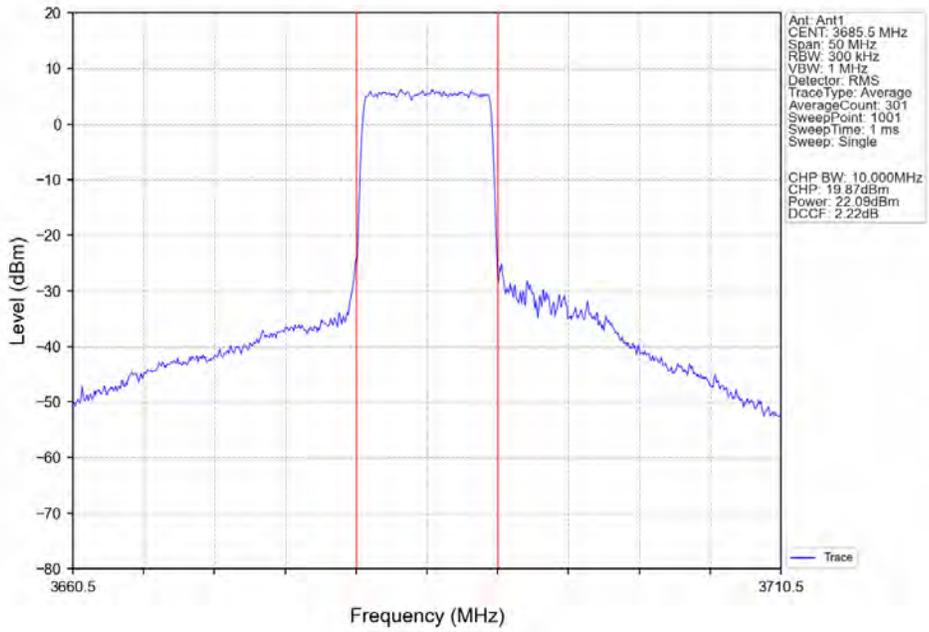
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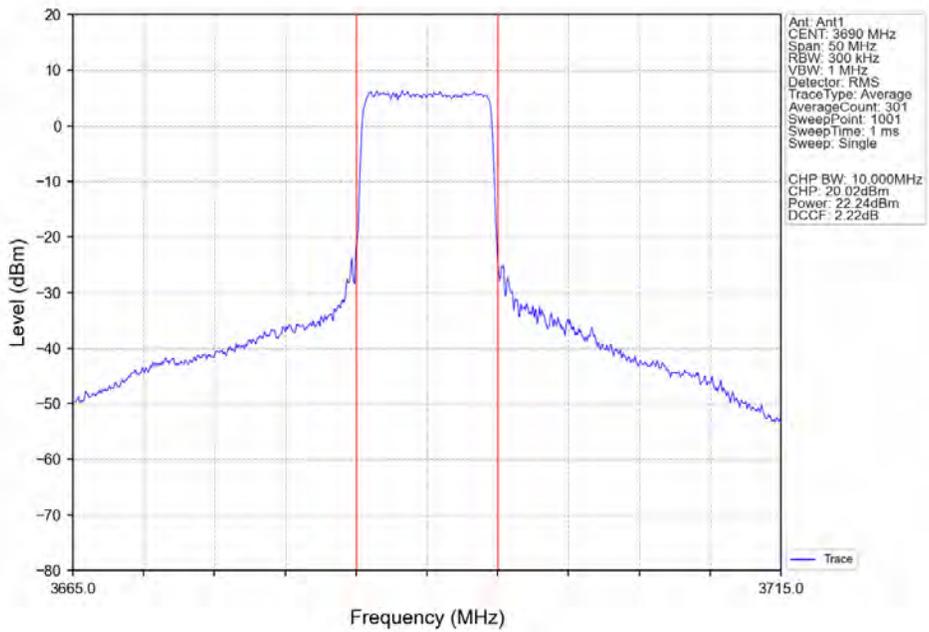
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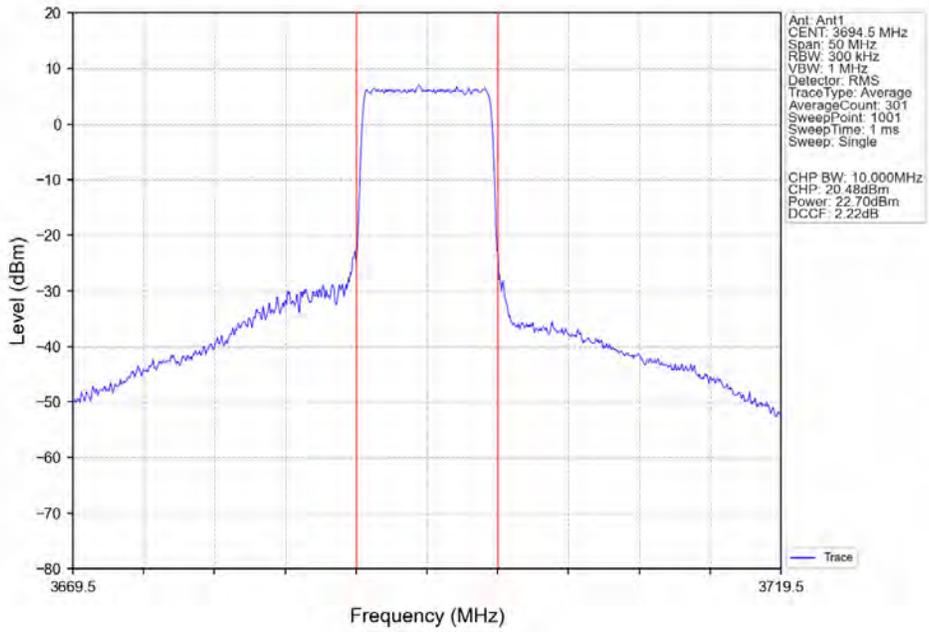
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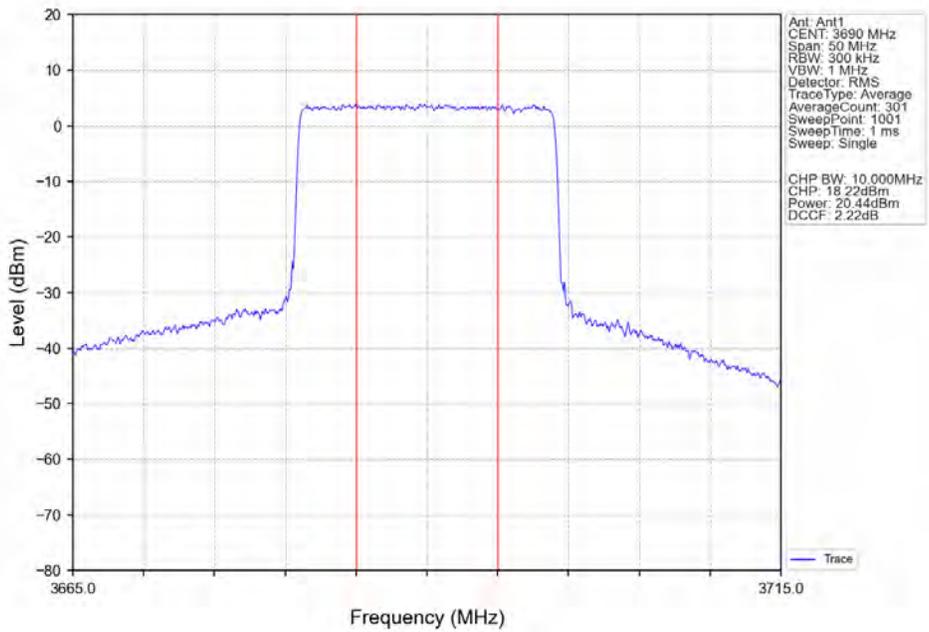
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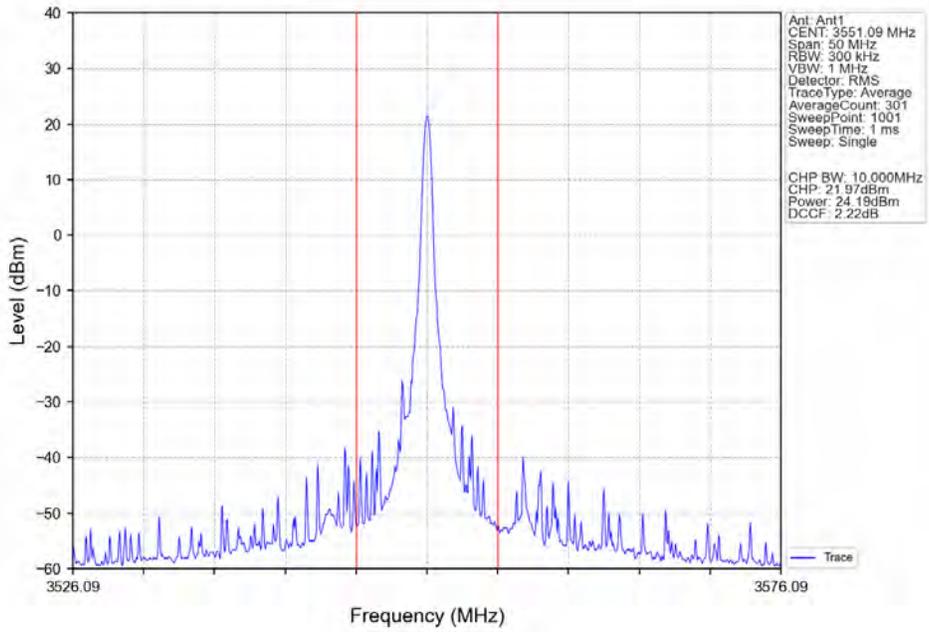
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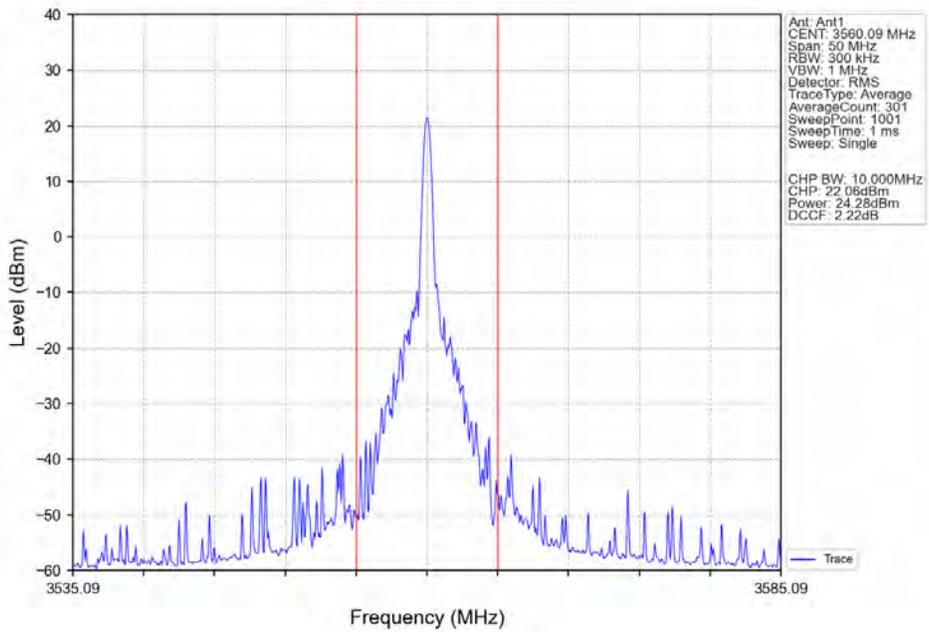
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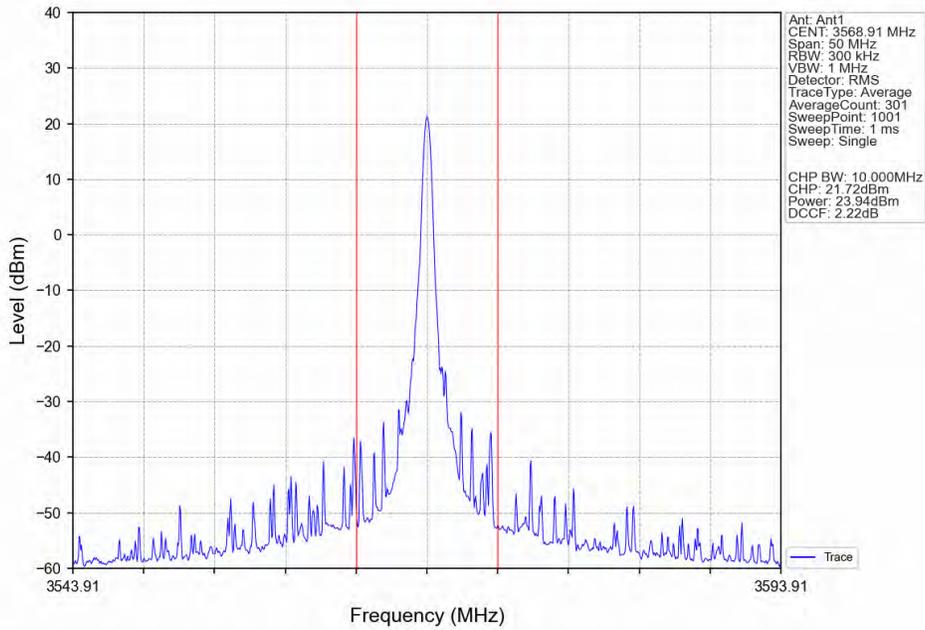
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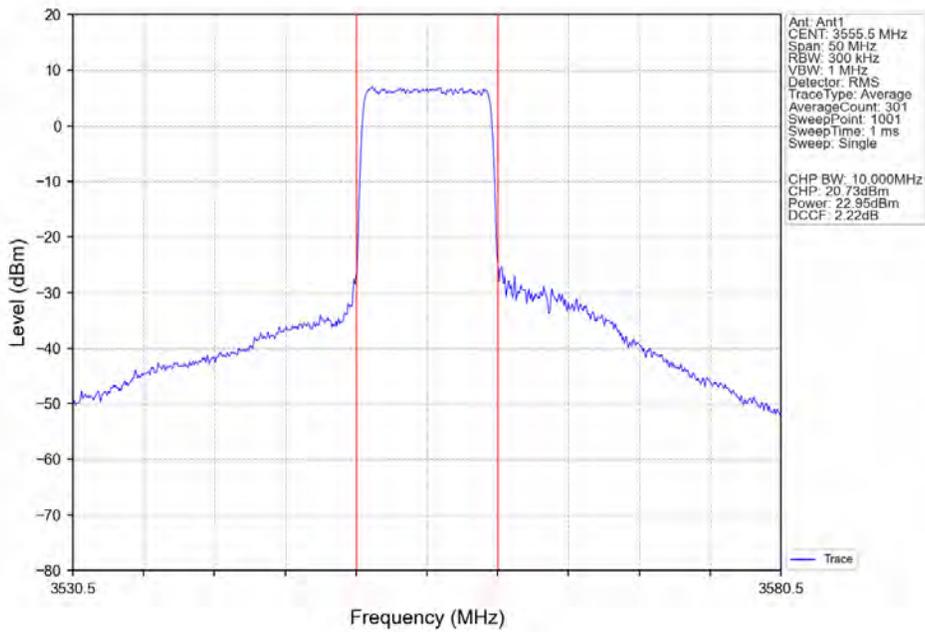
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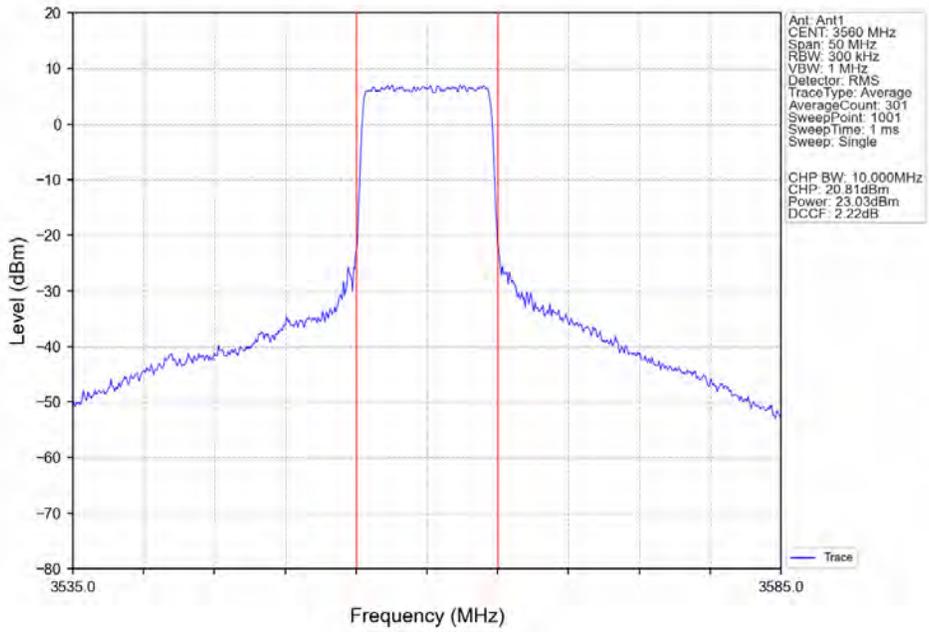
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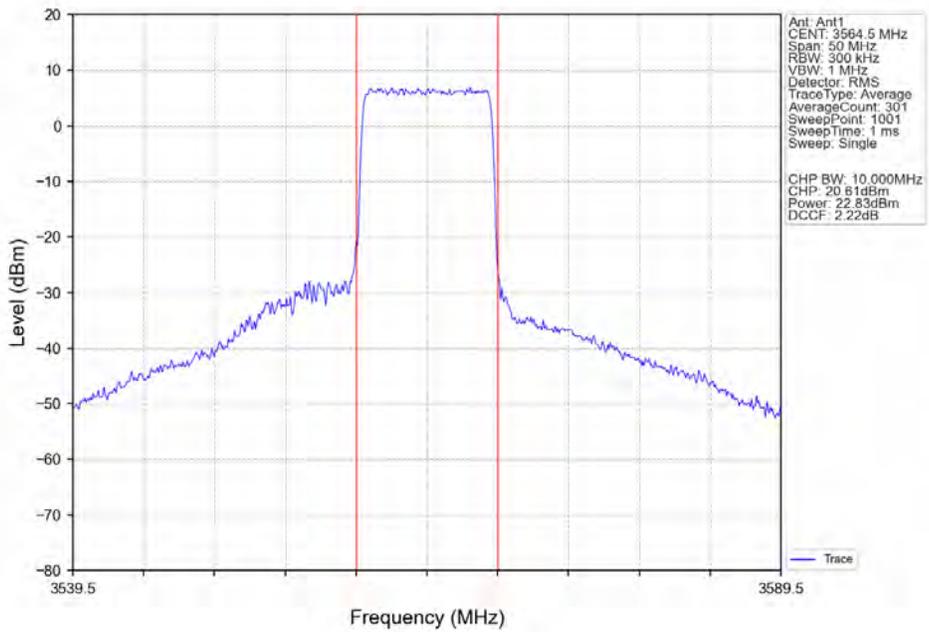
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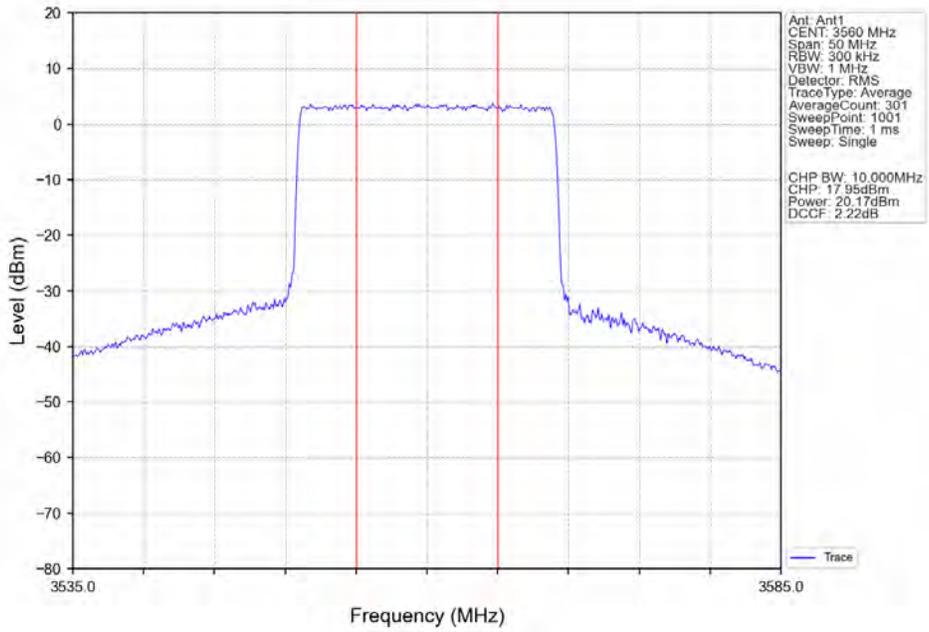
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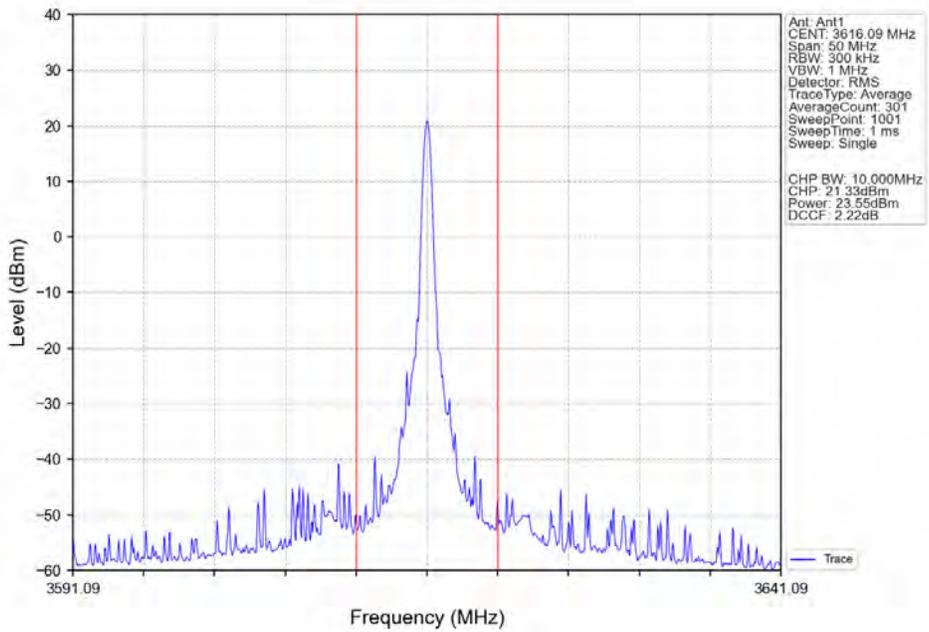
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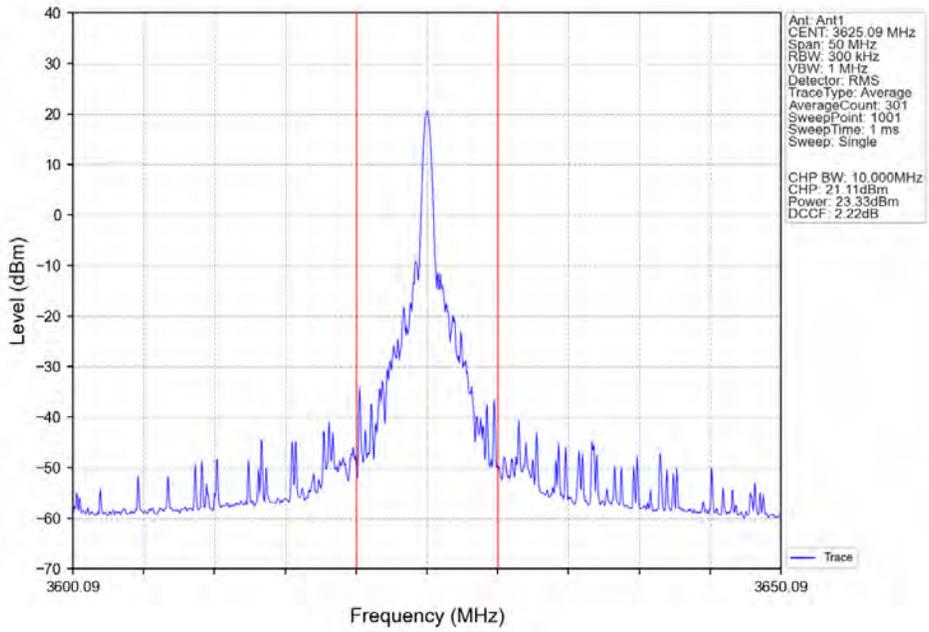
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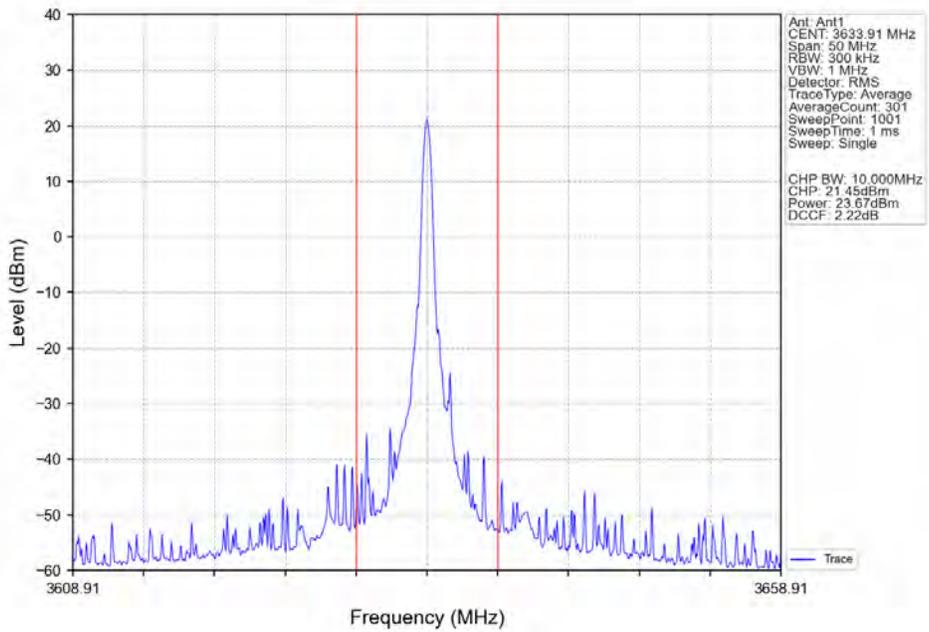
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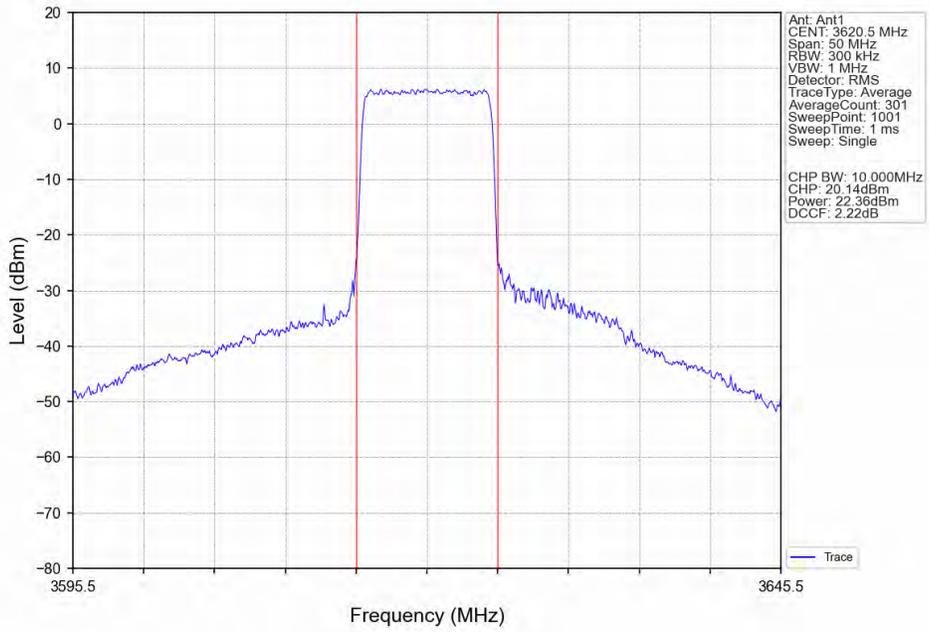
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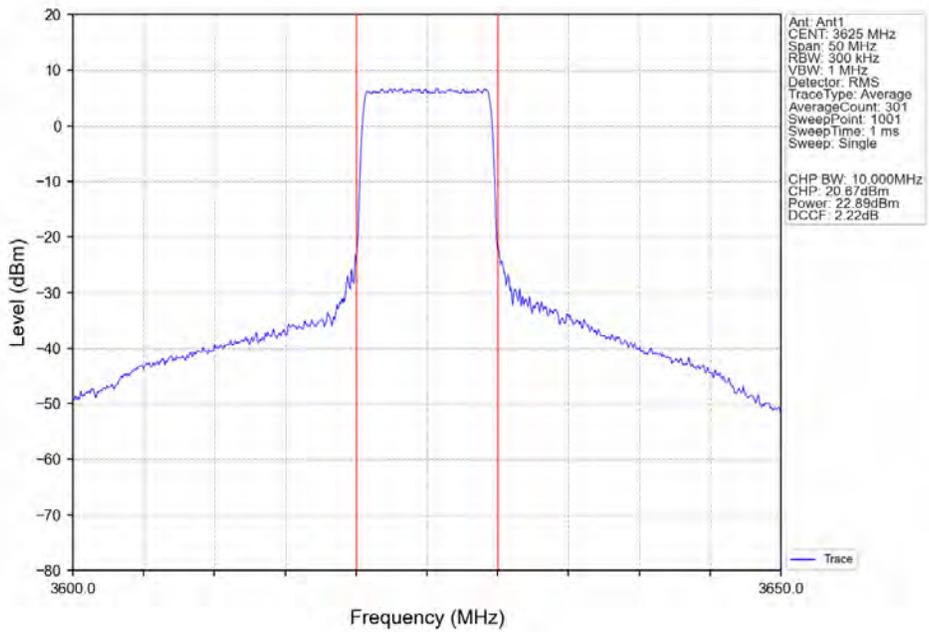
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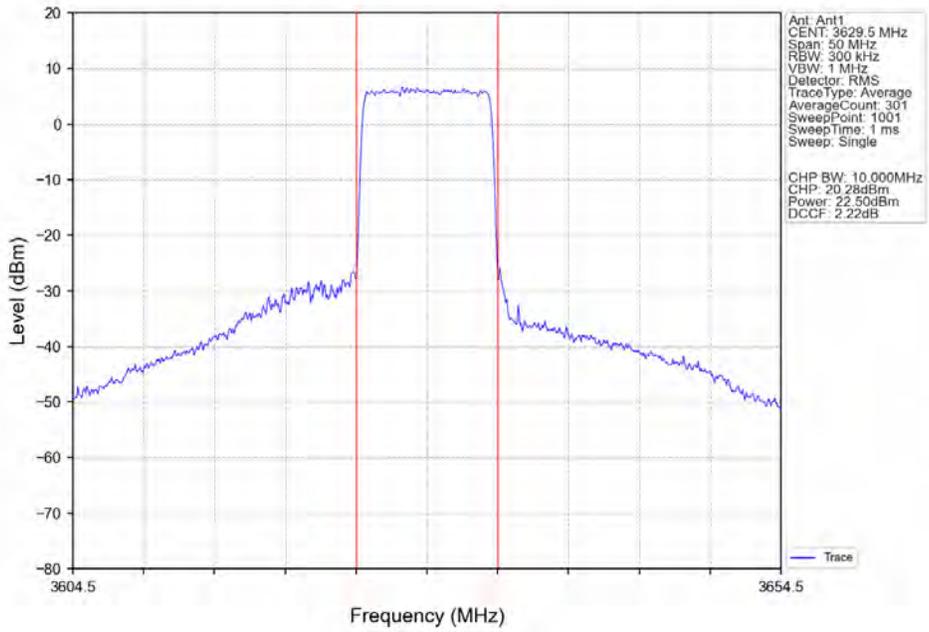
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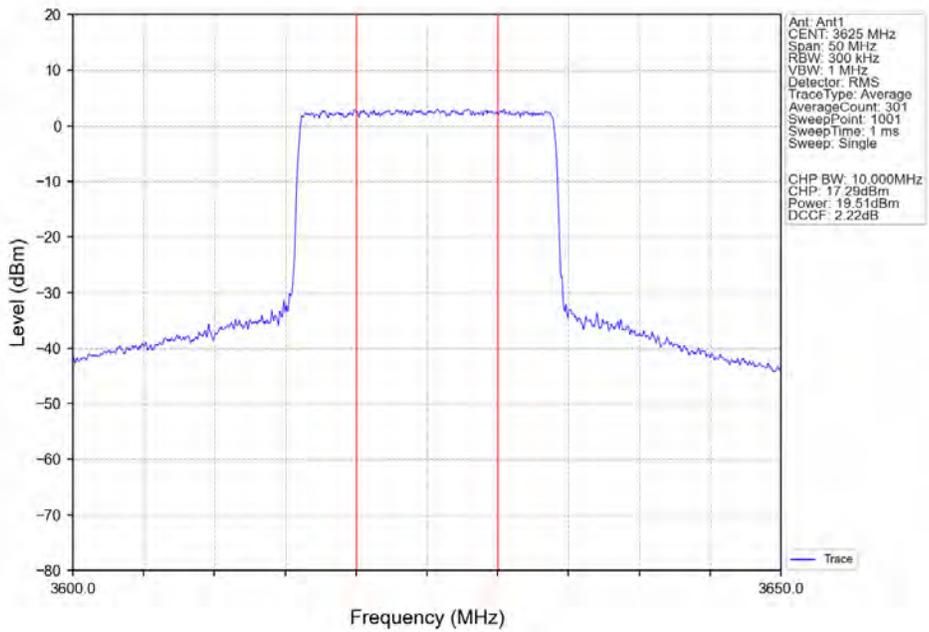
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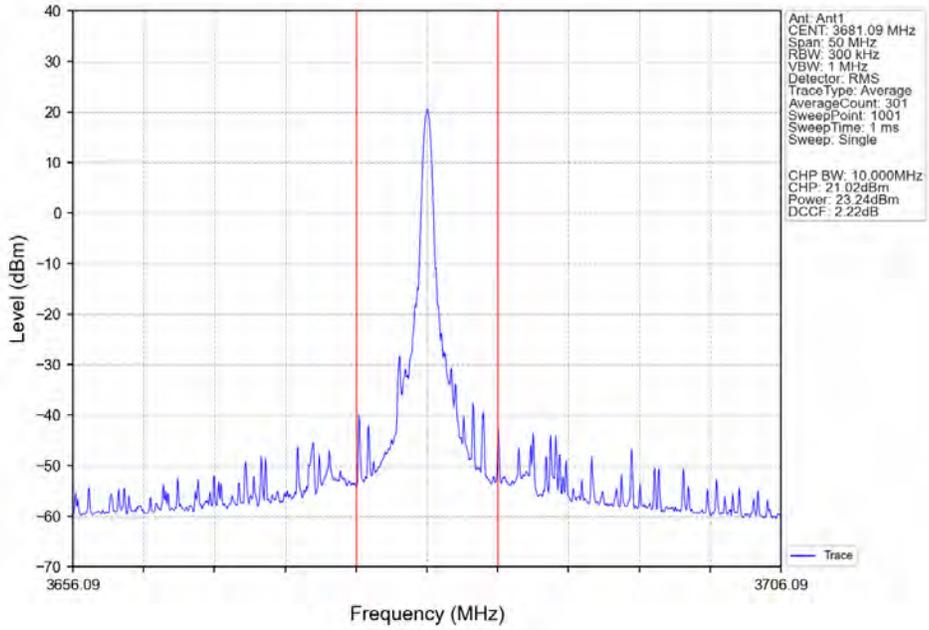
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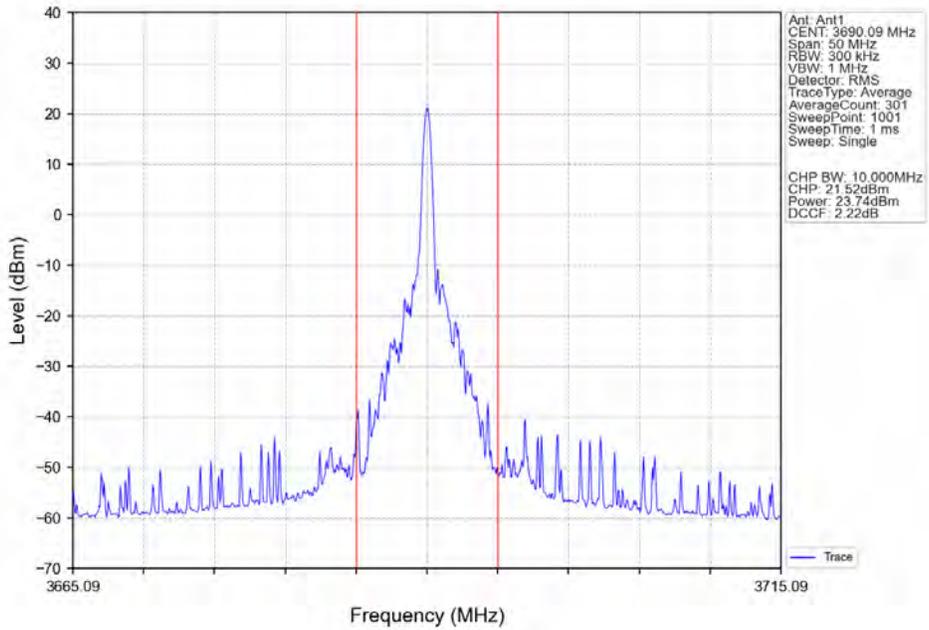
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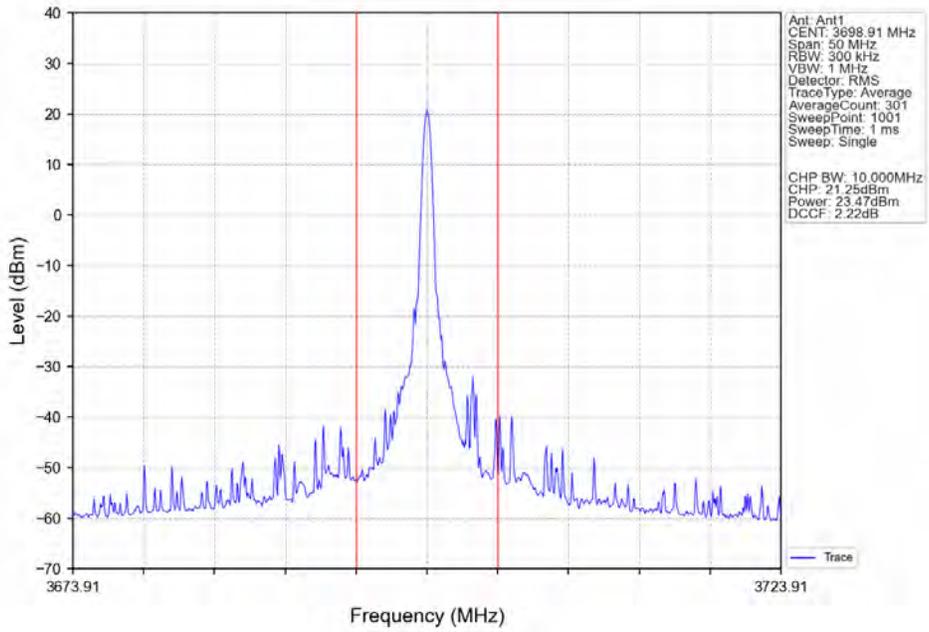
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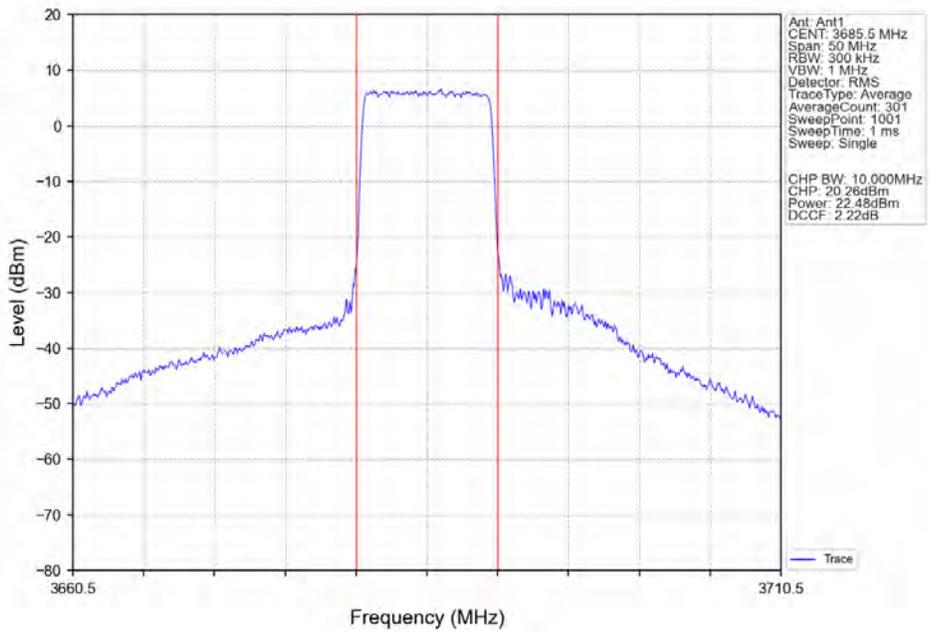
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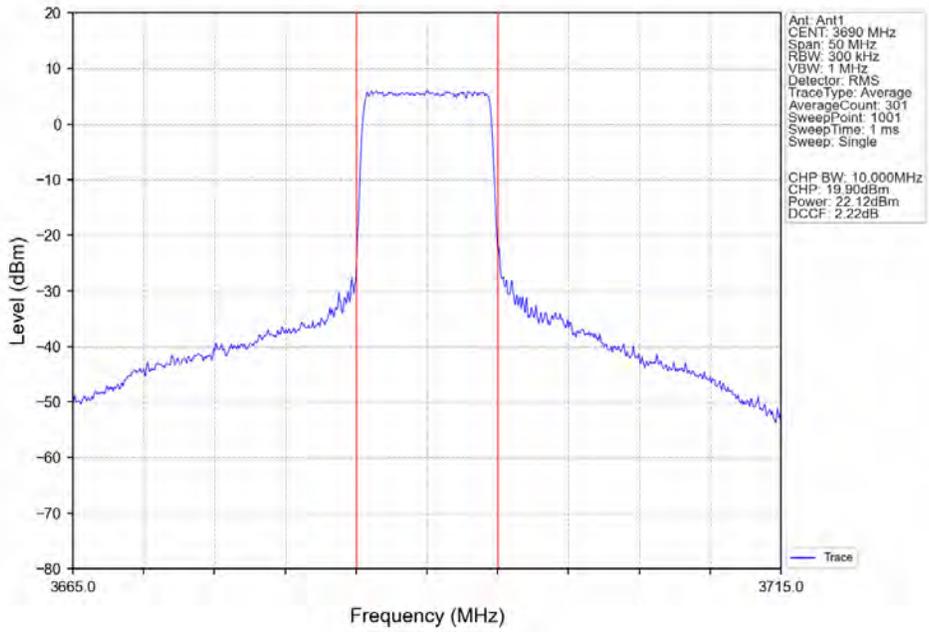
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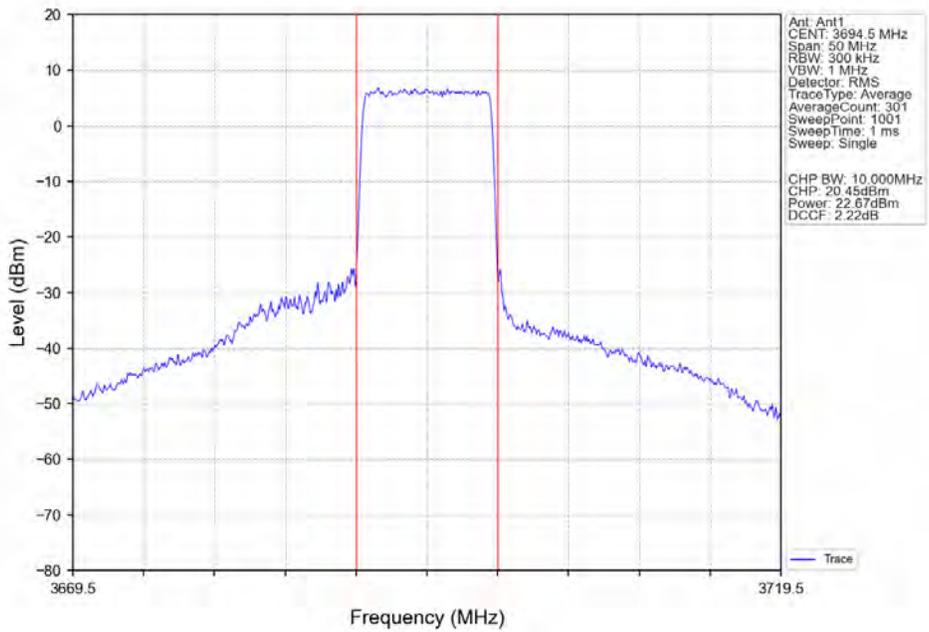
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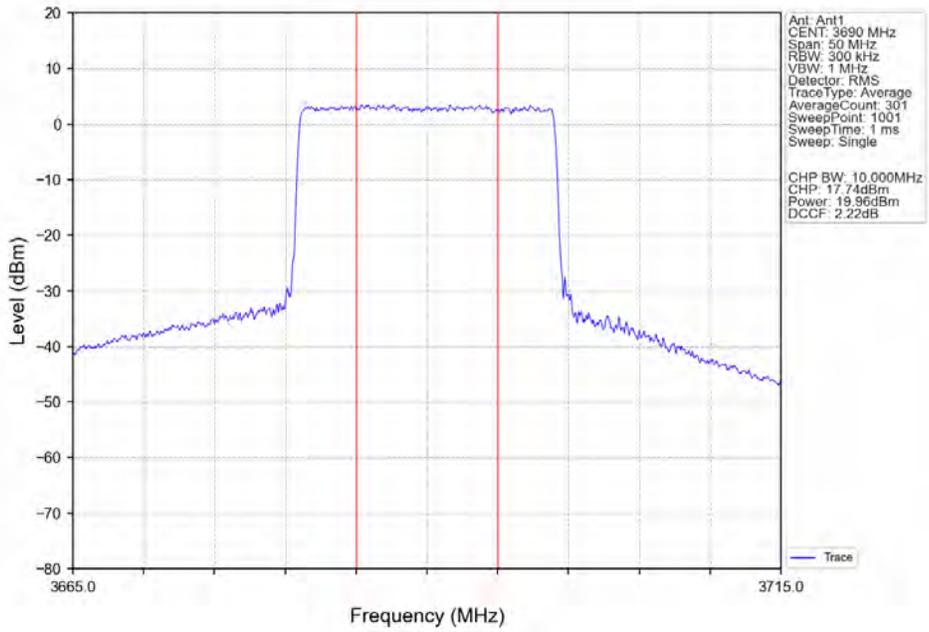
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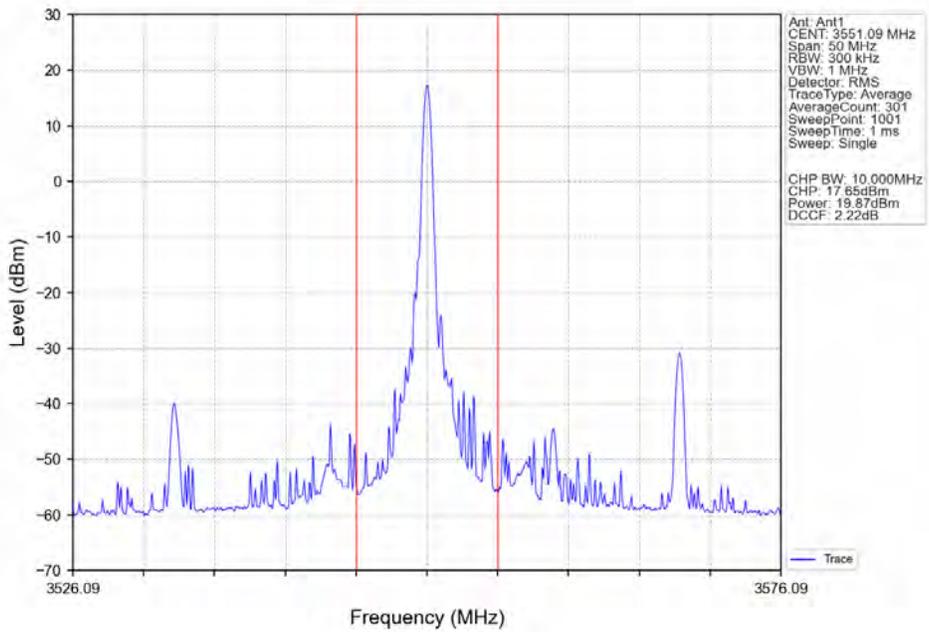
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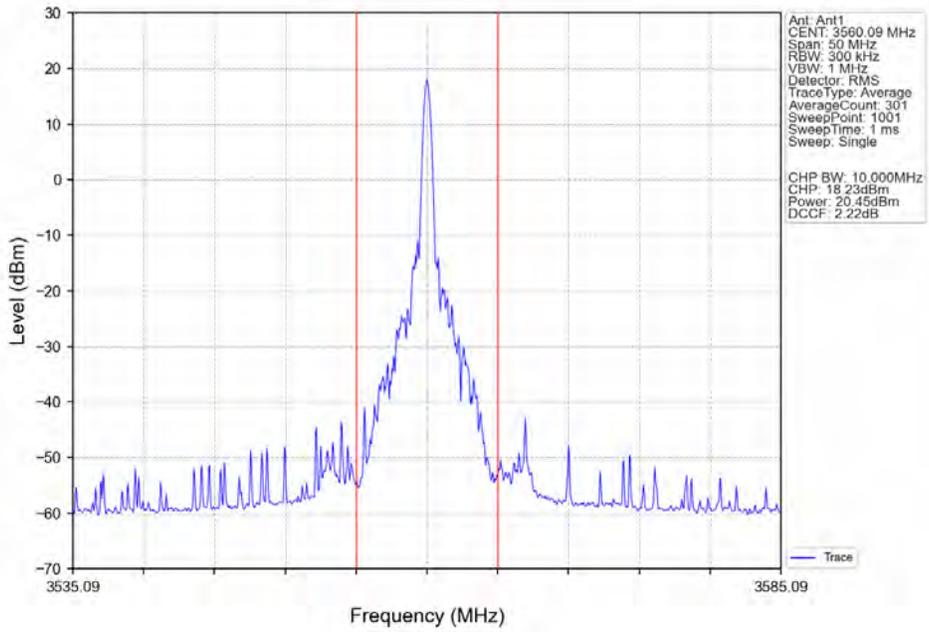
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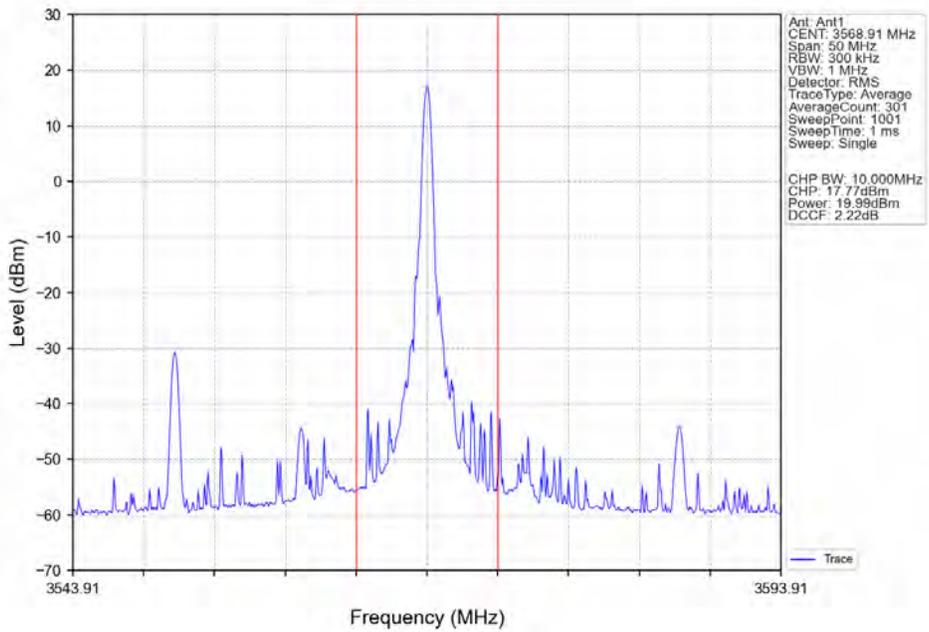
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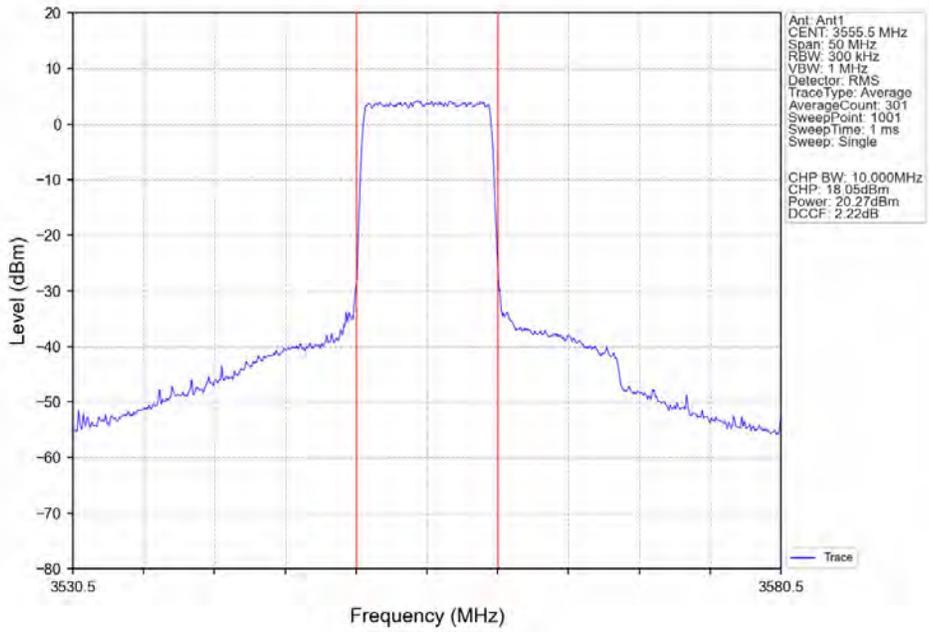
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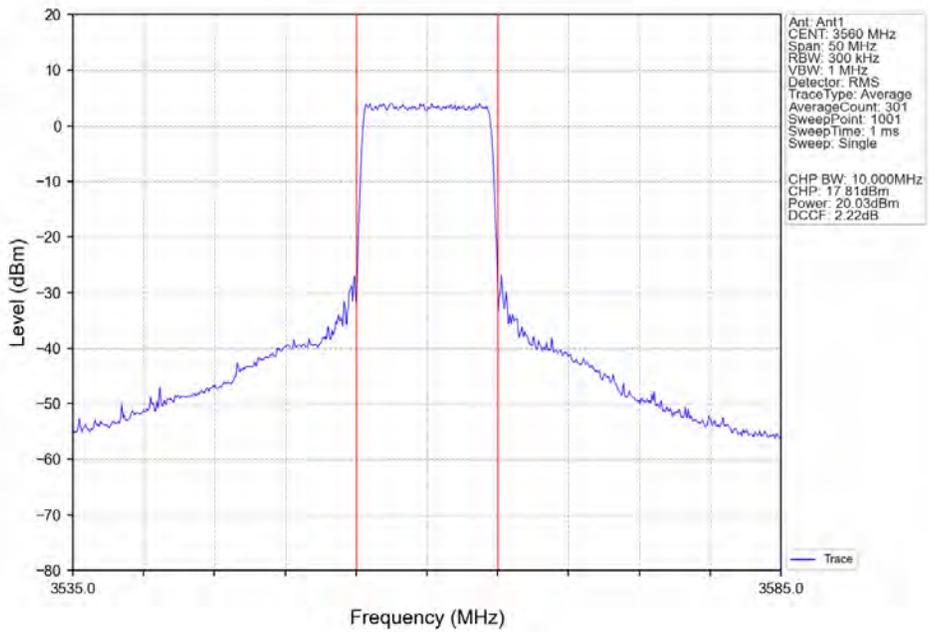
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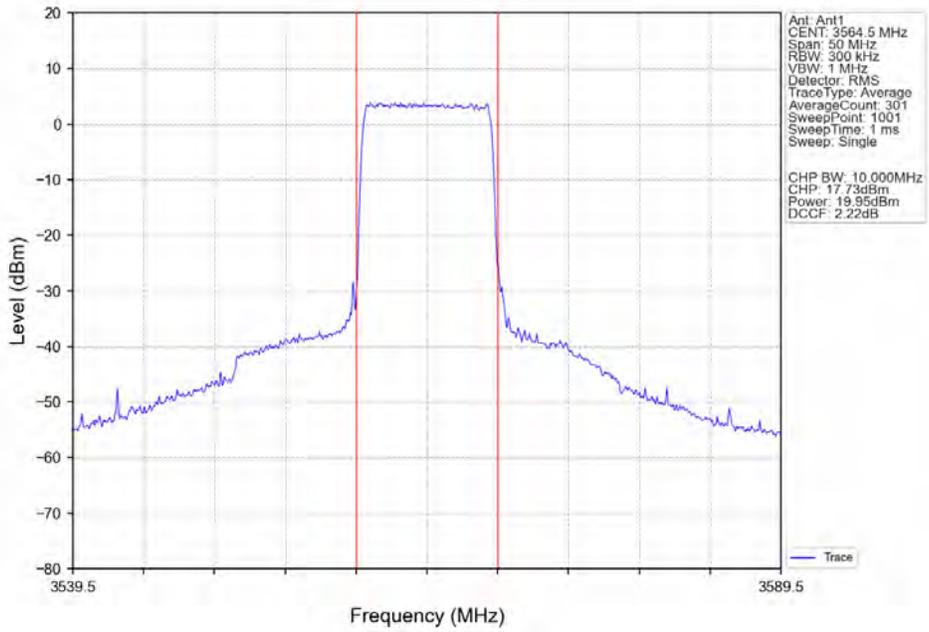
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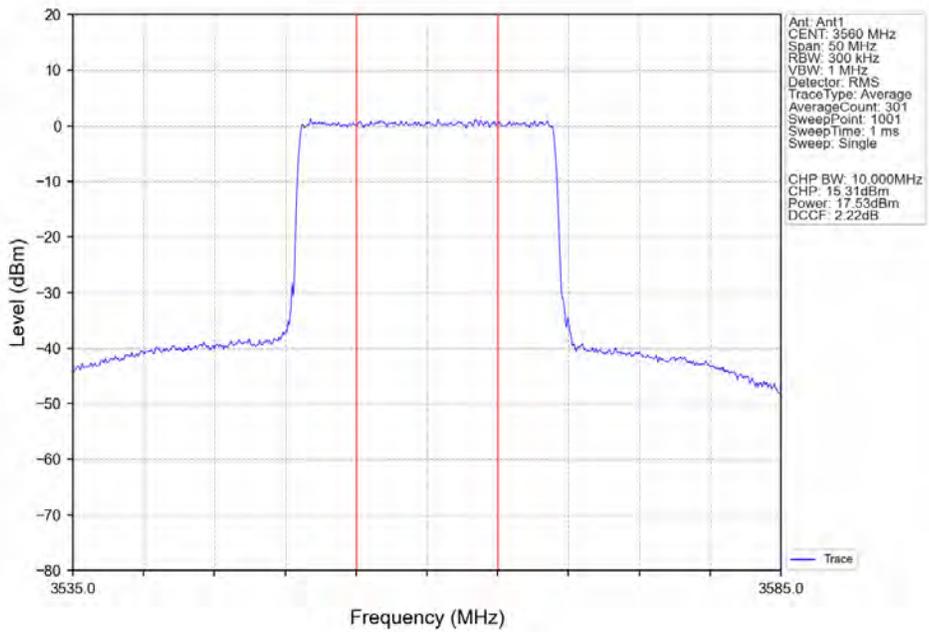
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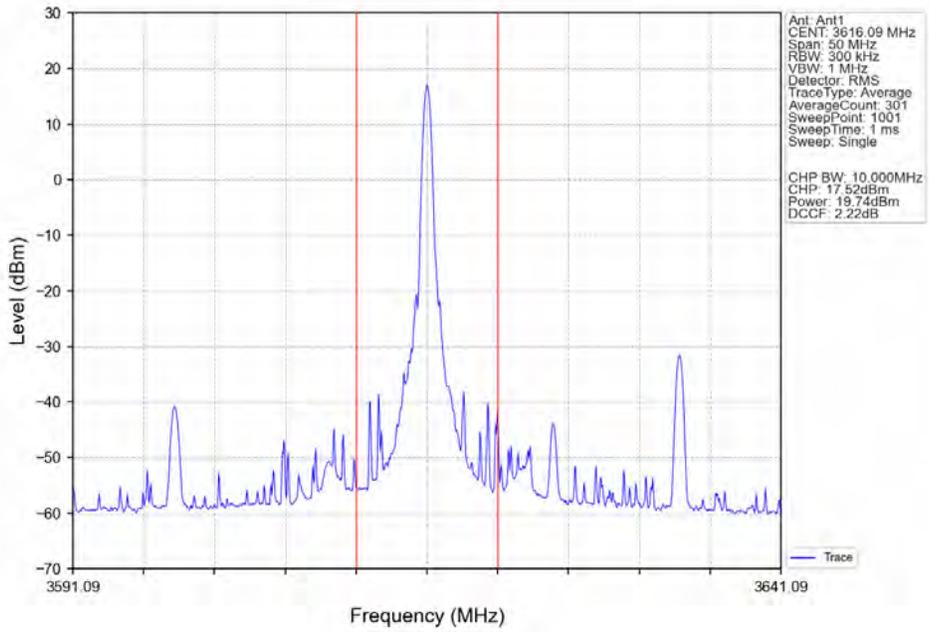
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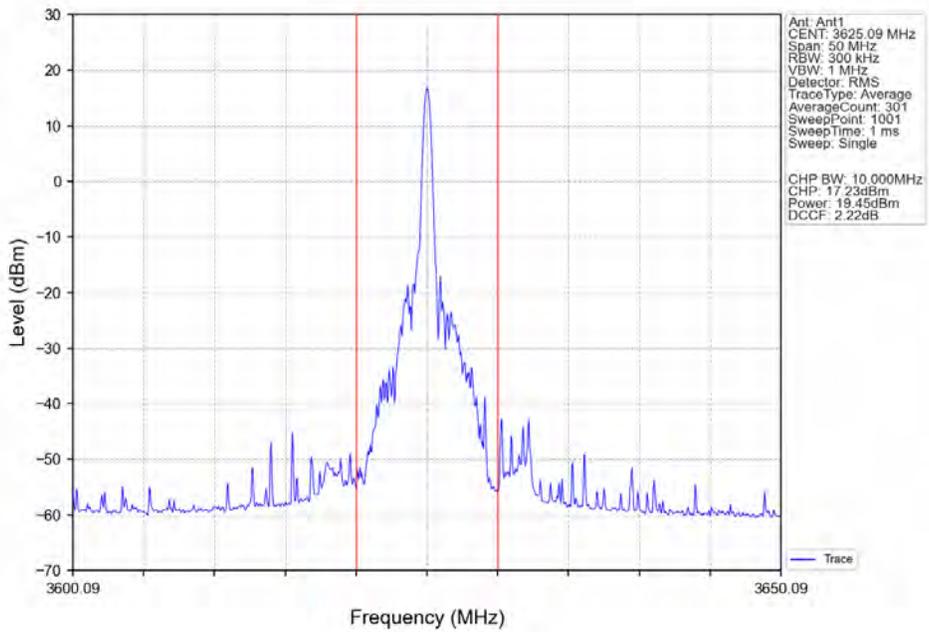
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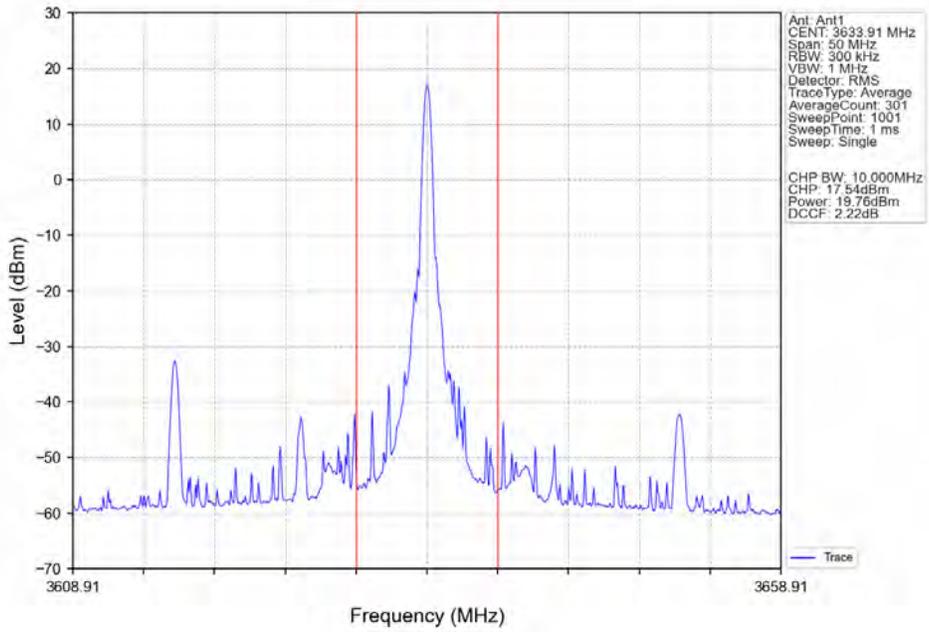
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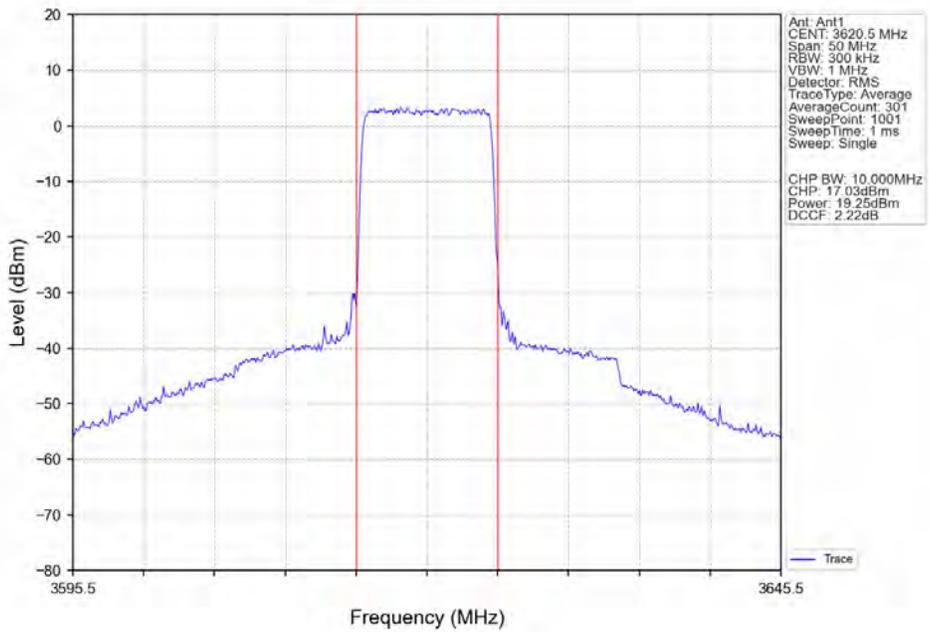
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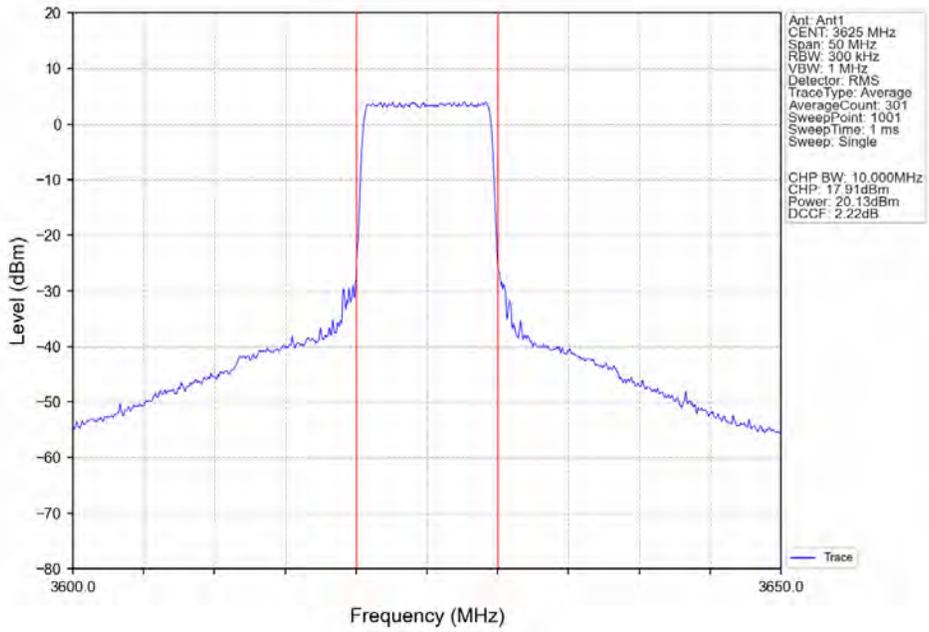
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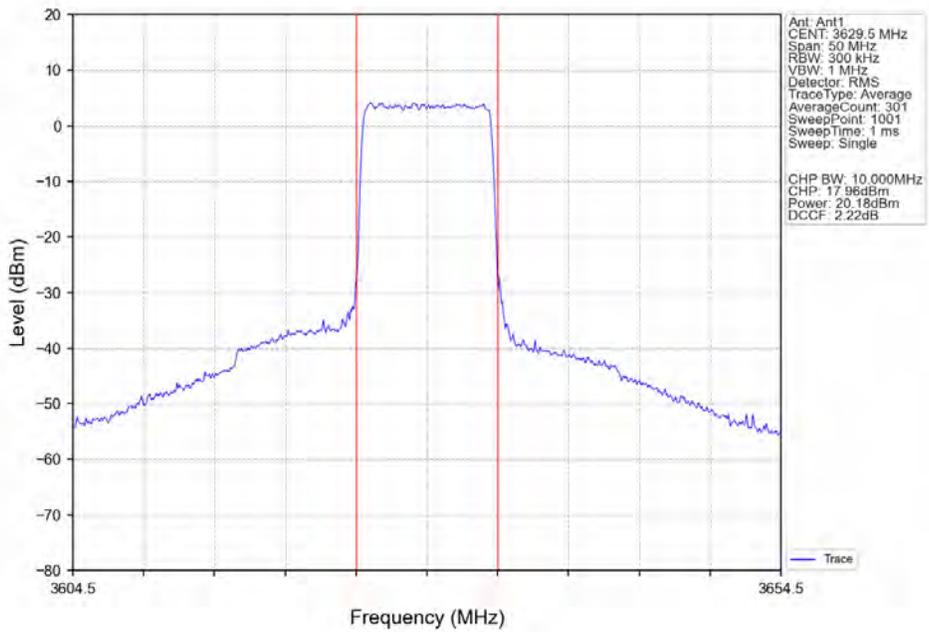
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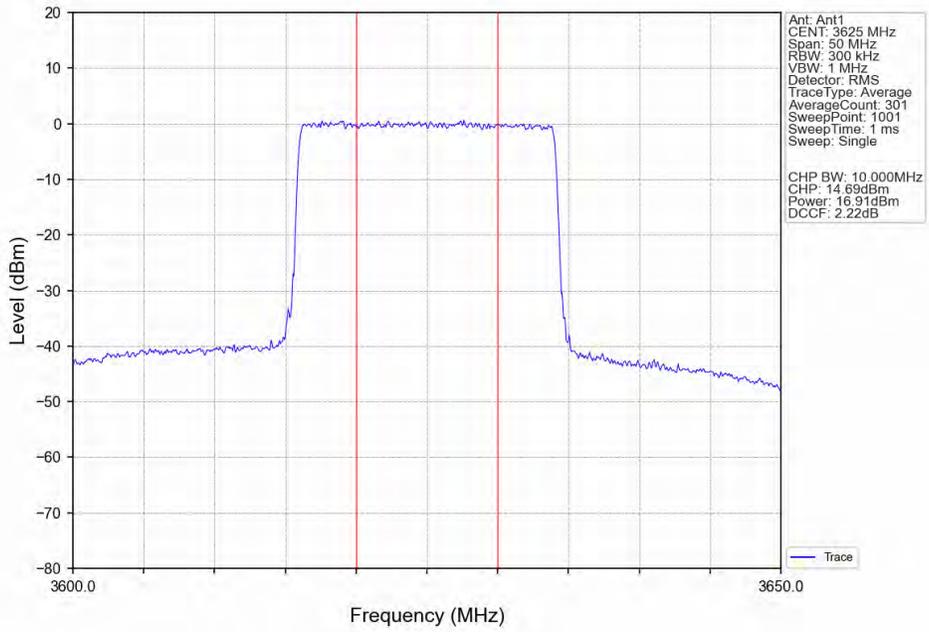
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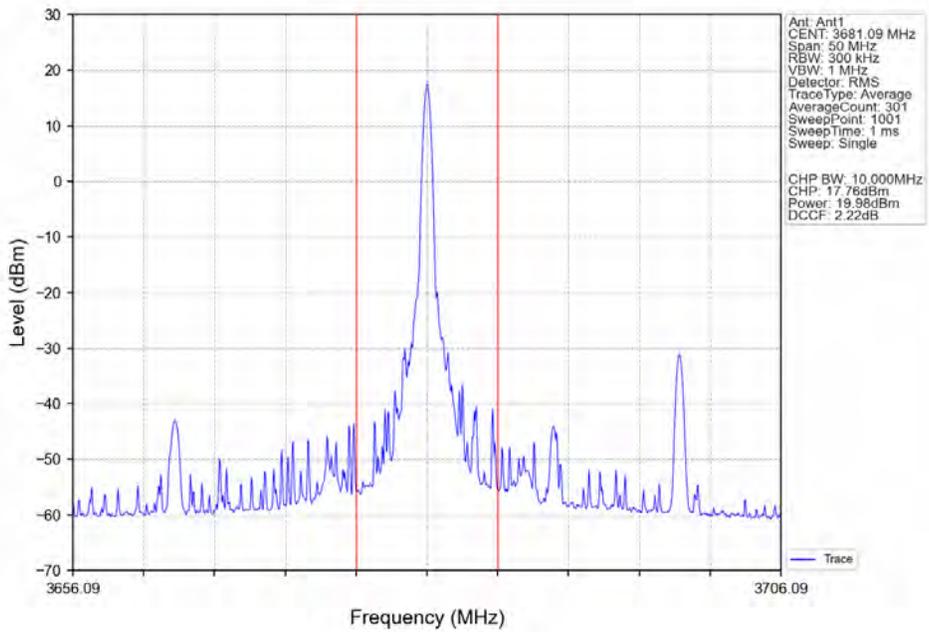
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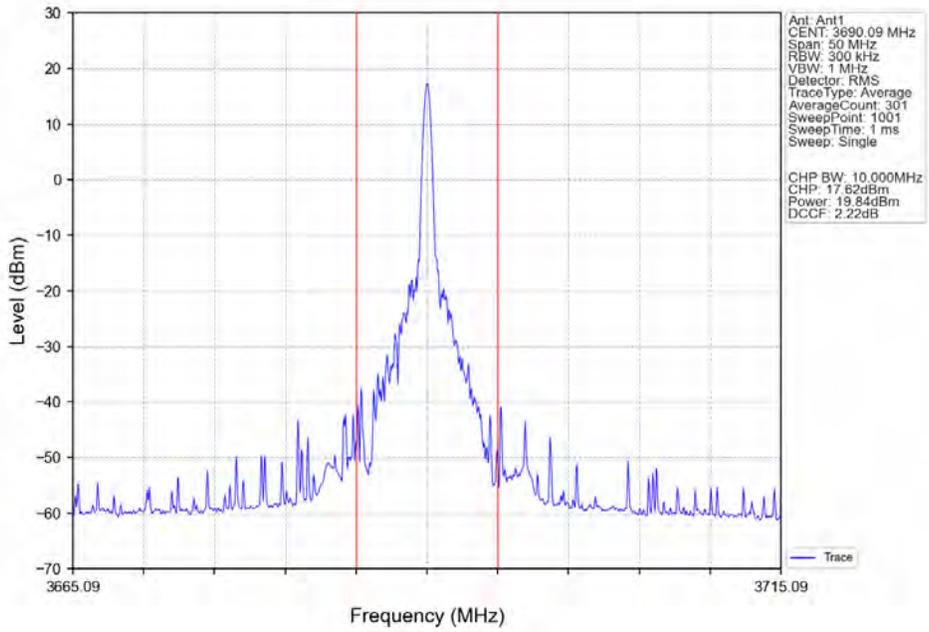
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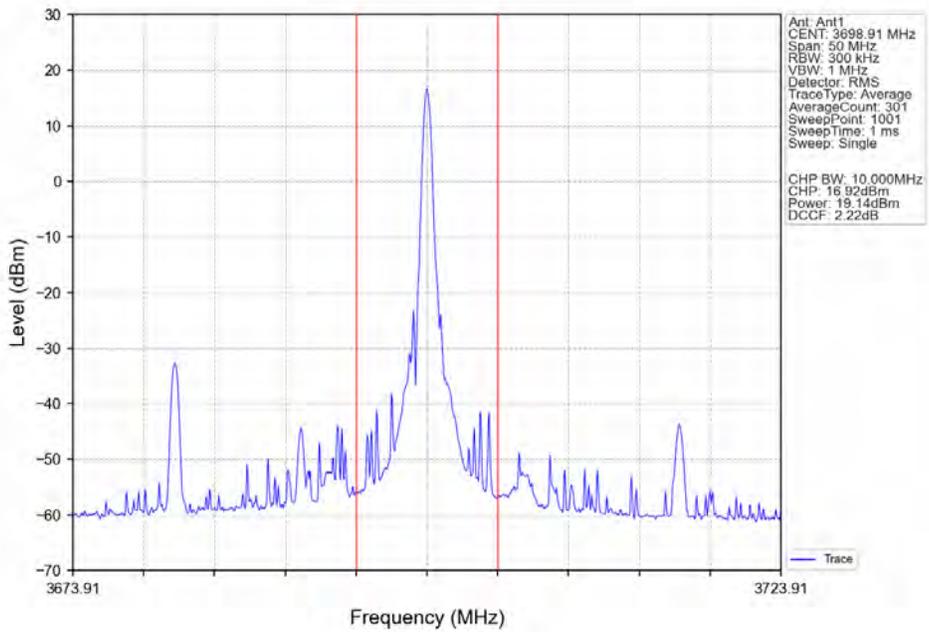
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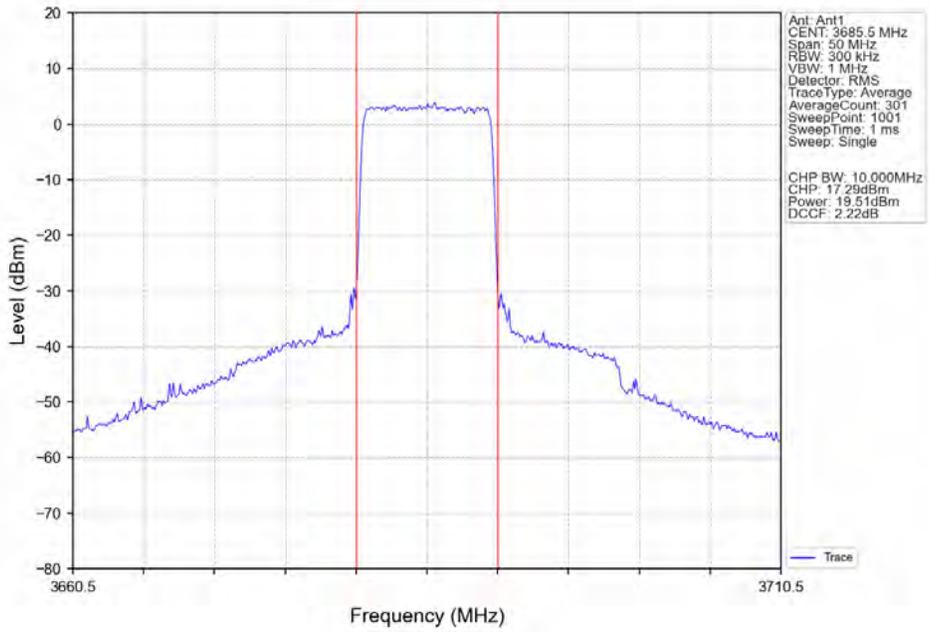
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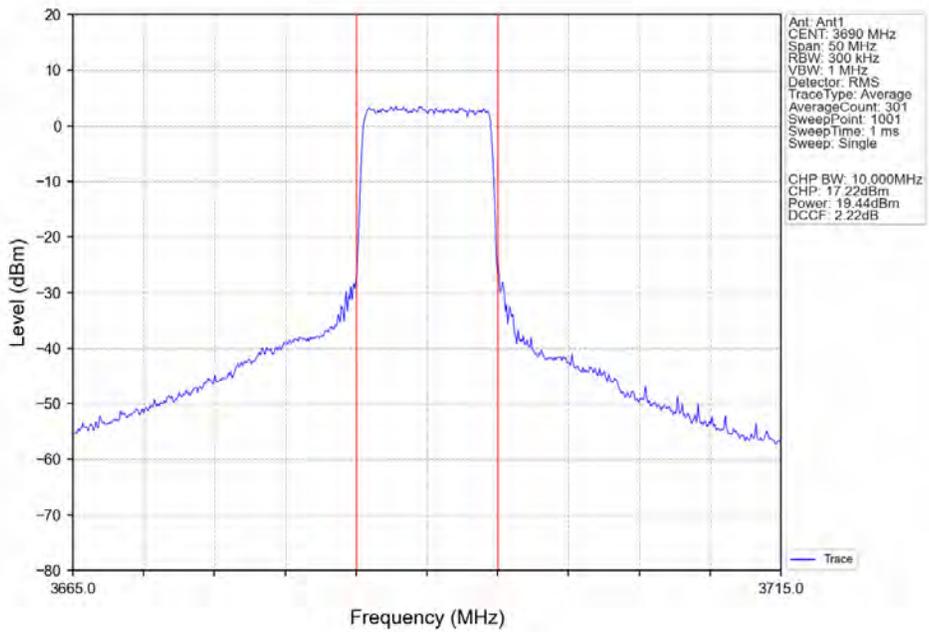
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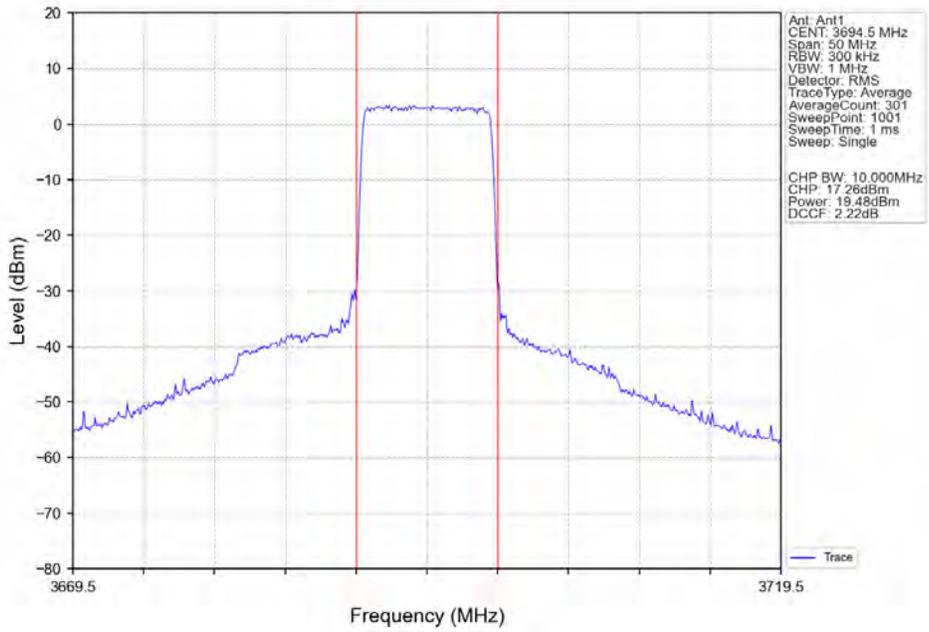
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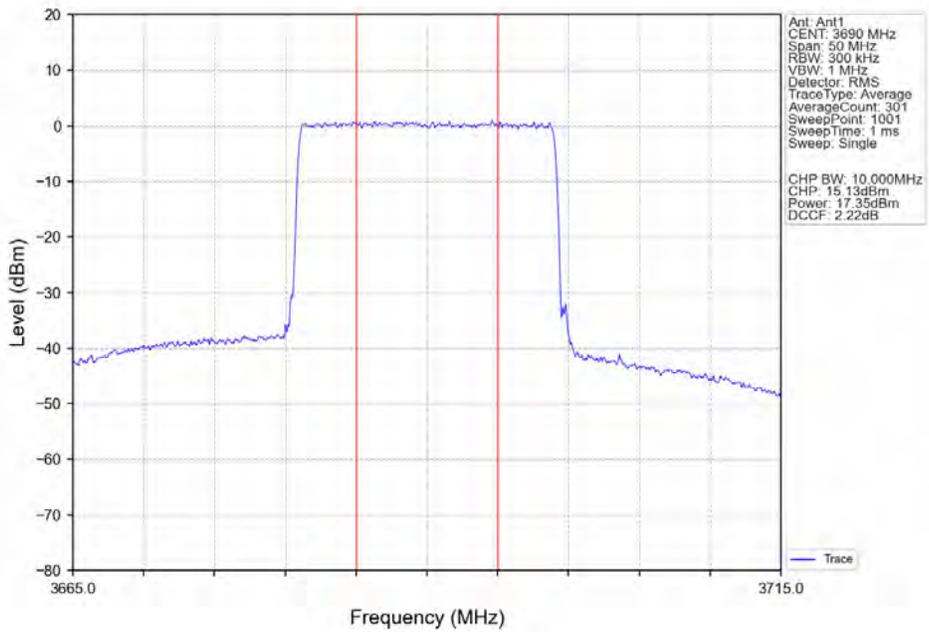
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Band48\_20MHz\_256QAM\_HCH\_3690MHz\_RB\_50\_50\_NTNV



Band48\_20MHz\_256QAM\_HCH\_3690MHz\_RB\_100\_0\_NTNV



### 3. Frequency Stability

#### 3.1 Test Result

##### 3.1.1 B48\_5MHz

Band: 48 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	3552.5	25	0	20	3.6	0.000	0.0000	-2.5 to 2.5	Pass
					3.91	1.600	0.0005	-2.5 to 2.5	Pass
					4.3	0.100	0.0000	-2.5 to 2.5	Pass
				-30	3.91	4.600	0.0013	-2.5 to 2.5	Pass
				-20	3.91	3.000	0.0008	-2.5 to 2.5	Pass
				-10	3.91	2.000	0.0006	-2.5 to 2.5	Pass
				0	3.91	-2.400	-0.0007	-2.5 to 2.5	Pass
				10	3.91	3.400	0.0010	-2.5 to 2.5	Pass
				30	3.91	5.100	0.0014	-2.5 to 2.5	Pass
	40	3.91	0.000	0.0000	-2.5 to 2.5	Pass			
	50	3.91	7.100	0.0020	-2.5 to 2.5	Pass			
	3625	25	0	20	3.6	3.700	0.0010	-2.5 to 2.5	Pass
					3.91	-4.400	-0.0012	-2.5 to 2.5	Pass
					4.3	-1.300	-0.0004	-2.5 to 2.5	Pass
				-30	3.91	5.600	0.0015	-2.5 to 2.5	Pass
				-20	3.91	2.300	0.0006	-2.5 to 2.5	Pass
				-10	3.91	6.000	0.0017	-2.5 to 2.5	Pass
				0	3.91	3.900	0.0011	-2.5 to 2.5	Pass
				10	3.91	3.700	0.0010	-2.5 to 2.5	Pass
				30	3.91	1.000	0.0003	-2.5 to 2.5	Pass
	40	3.91	-4.900	-0.0014	-2.5 to 2.5	Pass			
	50	3.91	2.800	0.0008	-2.5 to 2.5	Pass			
	3697.5	25	0	20	3.6	2.800	0.0008	-2.5 to 2.5	Pass
					3.91	5.300	0.0014	-2.5 to 2.5	Pass
					4.3	3.200	0.0009	-2.5 to 2.5	Pass
				-30	3.91	2.400	0.0006	-2.5 to 2.5	Pass
				-20	3.91	5.000	0.0014	-2.5 to 2.5	Pass
-10				3.91	3.600	0.0010	-2.5 to 2.5	Pass	
0				3.91	-4.900	-0.0013	-2.5 to 2.5	Pass	
10				3.91	3.900	0.0011	-2.5 to 2.5	Pass	
30				3.91	2.100	0.0006	-2.5 to 2.5	Pass	
40	3.91	4.800	0.0013	-2.5 to 2.5	Pass				
50	3.91	1.900	0.0005	-2.5 to 2.5	Pass				
16QAM	3552.5	25	0	20	3.6	-8.300	-0.0023	-2.5 to 2.5	Pass
					3.91	0.800	0.0002	-2.5 to 2.5	Pass
					4.3	3.200	0.0009	-2.5 to 2.5	Pass
				-30	3.91	1.800	0.0005	-2.5 to 2.5	Pass
				-20	3.91	-0.400	-0.0001	-2.5 to 2.5	Pass
				-10	3.91	0.400	0.0001	-2.5 to 2.5	Pass
				0	3.91	-2.600	-0.0007	-2.5 to 2.5	Pass
				10	3.91	0.400	0.0001	-2.5 to 2.5	Pass
				30	3.91	1.400	0.0004	-2.5 to 2.5	Pass
	40	3.91	6.400	0.0018	-2.5 to 2.5	Pass			
	50	3.91	1.900	0.0005	-2.5 to 2.5	Pass			
	3625	25	0	20	3.6	0.600	0.0002	-2.5 to 2.5	Pass
					3.91	6.500	0.0018	-2.5 to 2.5	Pass
					4.3	2.100	0.0006	-2.5 to 2.5	Pass

				-30	3.91	-0.200	-0.0001	-2.5 to 2.5	Pass			
				-20	3.91	5.600	0.0015	-2.5 to 2.5	Pass			
				-10	3.91	3.100	0.0009	-2.5 to 2.5	Pass			
				0	3.91	1.400	0.0004	-2.5 to 2.5	Pass			
				10	3.91	1.800	0.0005	-2.5 to 2.5	Pass			
				30	3.91	4.400	0.0012	-2.5 to 2.5	Pass			
				40	3.91	0.800	0.0002	-2.5 to 2.5	Pass			
	50	3.91	1.400	0.0004	-2.5 to 2.5	Pass						
	3697.5	25	0	20	3.6	-0.300	-0.0001	-2.5 to 2.5	Pass			
					3.91	3.000	0.0008	-2.5 to 2.5	Pass			
					4.3	2.900	0.0008	-2.5 to 2.5	Pass			
				-30	3.91	0.200	0.0001	-2.5 to 2.5	Pass			
				-20	3.91	5.100	0.0014	-2.5 to 2.5	Pass			
				-10	3.91	6.100	0.0016	-2.5 to 2.5	Pass			
0				3.91	-0.300	-0.0001	-2.5 to 2.5	Pass				
10		3.91	1.500	0.0004	-2.5 to 2.5	Pass						
30		3.91	0.100	0.0000	-2.5 to 2.5	Pass						
40		3.91	0.700	0.0002	-2.5 to 2.5	Pass						
50		3.91	0.800	0.0002	-2.5 to 2.5	Pass						
64QAM		3552.5	25	0	20	3.6	0.200	0.0001	-2.5 to 2.5	Pass		
						3.91	16.900	0.0048	-2.5 to 2.5	Pass		
						4.3	-6.900	-0.0019	-2.5 to 2.5	Pass		
	-30				3.91	-7.100	-0.0020	-2.5 to 2.5	Pass			
	-20				3.91	9.200	0.0026	-2.5 to 2.5	Pass			
	-10				3.91	-12.400	-0.0035	-2.5 to 2.5	Pass			
	0				3.91	-5.200	-0.0015	-2.5 to 2.5	Pass			
	10				3.91	-16.500	-0.0046	-2.5 to 2.5	Pass			
	30				3.91	-23.900	-0.0067	-2.5 to 2.5	Pass			
	40				3.91	4.500	0.0013	-2.5 to 2.5	Pass			
	50				3.91	-17.700	-0.0050	-2.5 to 2.5	Pass			
	3625				25	0	20	3.6	43.300	0.0119	-2.5 to 2.5	Pass
								3.91	-13.600	-0.0038	-2.5 to 2.5	Pass
								4.3	-8.400	-0.0023	-2.5 to 2.5	Pass
		-30	3.91	-6.400			-0.0018	-2.5 to 2.5	Pass			
		-20	3.91	22.200			0.0061	-2.5 to 2.5	Pass			
		-10	3.91	29.800			0.0082	-2.5 to 2.5	Pass			
		0	3.91	43.400			0.0120	-2.5 to 2.5	Pass			
		10	3.91	-25.700			-0.0071	-2.5 to 2.5	Pass			
		30	3.91	-40.200			-0.0111	-2.5 to 2.5	Pass			
		40	3.91	-22.100			-0.0061	-2.5 to 2.5	Pass			
		50	3.91	-19.700			-0.0054	-2.5 to 2.5	Pass			
		3697.5	25	0			20	3.6	-6.300	-0.0017	-2.5 to 2.5	Pass
								3.91	29.500	0.0080	-2.5 to 2.5	Pass
								4.3	-19.200	-0.0052	-2.5 to 2.5	Pass
	-30				3.91	-25.800	-0.0070	-2.5 to 2.5	Pass			
	-20				3.91	-16.000	-0.0043	-2.5 to 2.5	Pass			
	-10				3.91	10.100	0.0027	-2.5 to 2.5	Pass			
0	3.91				28.400	0.0077	-2.5 to 2.5	Pass				
10	3.91				27.000	0.0073	-2.5 to 2.5	Pass				
30	3.91				11.300	0.0031	-2.5 to 2.5	Pass				
40	3.91				-29.600	-0.0080	-2.5 to 2.5	Pass				
50	3.91				-33.800	-0.0091	-2.5 to 2.5	Pass				
256QAM	3552.5				25	0	20	3.6	-0.900	-0.0003	-2.5 to 2.5	Pass
								3.91	0.200	0.0001	-2.5 to 2.5	Pass
								4.3	4.100	0.0012	-2.5 to 2.5	Pass
		-30	3.91	-0.200			-0.0001	-2.5 to 2.5	Pass			
		-20	3.91	-5.600			-0.0016	-2.5 to 2.5	Pass			
		-10	3.91	4.900			0.0014	-2.5 to 2.5	Pass			
		0	3.91	0.000			0.0000	-2.5 to 2.5	Pass			

				10	3.91	-6.400	-0.0018	-2.5 to 2.5	Pass
				30	3.91	-6.800	-0.0019	-2.5 to 2.5	Pass
				40	3.91	-10.900	-0.0031	-2.5 to 2.5	Pass
				50	3.91	0.600	0.0002	-2.5 to 2.5	Pass
	3625	25	0	20	3.6	7.900	0.0022	-2.5 to 2.5	Pass
					3.91	3.400	0.0009	-2.5 to 2.5	Pass
					4.3	5.000	0.0014	-2.5 to 2.5	Pass
				-30	3.91	4.300	0.0012	-2.5 to 2.5	Pass
				-20	3.91	2.000	0.0006	-2.5 to 2.5	Pass
				-10	3.91	5.800	0.0016	-2.5 to 2.5	Pass
				0	3.91	-1.300	-0.0004	-2.5 to 2.5	Pass
				10	3.91	1.300	0.0004	-2.5 to 2.5	Pass
				30	3.91	4.200	0.0012	-2.5 to 2.5	Pass
				40	3.91	-3.000	-0.0008	-2.5 to 2.5	Pass
	50	3.91	4.600	0.0013	-2.5 to 2.5	Pass			
	3697.5	25	0	20	3.6	1.400	0.0004	-2.5 to 2.5	Pass
					3.91	6.500	0.0018	-2.5 to 2.5	Pass
					4.3	1.000	0.0003	-2.5 to 2.5	Pass
				-30	3.91	3.800	0.0010	-2.5 to 2.5	Pass
				-20	3.91	2.000	0.0005	-2.5 to 2.5	Pass
-10				3.91	0.000	0.0000	-2.5 to 2.5	Pass	
0				3.91	-0.700	-0.0002	-2.5 to 2.5	Pass	
10				3.91	0.000	0.0000	-2.5 to 2.5	Pass	
30				3.91	4.300	0.0012	-2.5 to 2.5	Pass	
40				3.91	3.800	0.0010	-2.5 to 2.5	Pass	
50	3.91	4.100	0.0011	-2.5 to 2.5	Pass				

### 3.1.2 B48\_10MHz

Band: 48 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	3555	50	0	20	3.6	-3.900	-0.0011	-2.5 to 2.5	Pass
					3.91	0.700	0.0002	-2.5 to 2.5	Pass
					4.3	1.900	0.0005	-2.5 to 2.5	Pass
				-30	3.91	0.800	0.0002	-2.5 to 2.5	Pass
				-20	3.91	1.300	0.0004	-2.5 to 2.5	Pass
				-10	3.91	-6.100	-0.0017	-2.5 to 2.5	Pass
				0	3.91	-1.500	-0.0004	-2.5 to 2.5	Pass
				10	3.91	-1.100	-0.0003	-2.5 to 2.5	Pass
				30	3.91	-1.900	-0.0005	-2.5 to 2.5	Pass
				40	3.91	-1.800	-0.0005	-2.5 to 2.5	Pass
	50	3.91	1.600	0.0005	-2.5 to 2.5	Pass			
	3625	50	0	20	3.6	7.800	0.0022	-2.5 to 2.5	Pass
					3.91	6.400	0.0018	-2.5 to 2.5	Pass
					4.3	2.000	0.0006	-2.5 to 2.5	Pass
				-30	3.91	5.600	0.0015	-2.5 to 2.5	Pass
				-20	3.91	8.000	0.0022	-2.5 to 2.5	Pass
				-10	3.91	2.500	0.0007	-2.5 to 2.5	Pass
				0	3.91	-0.600	-0.0002	-2.5 to 2.5	Pass
				10	3.91	1.900	0.0005	-2.5 to 2.5	Pass
				30	3.91	1.300	0.0004	-2.5 to 2.5	Pass
				40	3.91	1.900	0.0005	-2.5 to 2.5	Pass
	50	3.91	2.000	0.0006	-2.5 to 2.5	Pass			
	3695	50	0	20	3.6	0.100	0.0000	-2.5 to 2.5	Pass
					3.91	-2.100	-0.0006	-2.5 to 2.5	Pass
					4.3	-2.100	-0.0006	-2.5 to 2.5	Pass

				-30	3.91	-0.700	-0.0002	-2.5 to 2.5	Pass				
				-20	3.91	-0.800	-0.0002	-2.5 to 2.5	Pass				
				-10	3.91	1.100	0.0003	-2.5 to 2.5	Pass				
				0	3.91	-2.600	-0.0007	-2.5 to 2.5	Pass				
				10	3.91	-1.500	-0.0004	-2.5 to 2.5	Pass				
				30	3.91	3.900	0.0011	-2.5 to 2.5	Pass				
				40	3.91	0.700	0.0002	-2.5 to 2.5	Pass				
				50	3.91	1.900	0.0005	-2.5 to 2.5	Pass				
16QAM	3555	50	0	20	3.6	-0.900	-0.0003	-2.5 to 2.5	Pass				
					3.91	1.000	0.0003	-2.5 to 2.5	Pass				
					4.3	-4.400	-0.0012	-2.5 to 2.5	Pass				
								-30	3.91	-10.000	-0.0028	-2.5 to 2.5	Pass
								-20	3.91	-2.000	-0.0006	-2.5 to 2.5	Pass
								-10	3.91	0.600	0.0002	-2.5 to 2.5	Pass
								0	3.91	0.600	0.0002	-2.5 to 2.5	Pass
								10	3.91	-2.800	-0.0008	-2.5 to 2.5	Pass
								30	3.91	-1.500	-0.0004	-2.5 to 2.5	Pass
								40	3.91	1.300	0.0004	-2.5 to 2.5	Pass
					50	3.91	-5.300	-0.0015	-2.5 to 2.5	Pass			
		3625	50	0	20	3.6	-1.300	-0.0004	-2.5 to 2.5	Pass			
	3.91					0.100	0.0000	-2.5 to 2.5	Pass				
	4.3					0.900	0.0002	-2.5 to 2.5	Pass				
								-30	3.91	-3.600	-0.0010	-2.5 to 2.5	Pass
								-20	3.91	0.800	0.0002	-2.5 to 2.5	Pass
								-10	3.91	4.200	0.0012	-2.5 to 2.5	Pass
								0	3.91	4.500	0.0012	-2.5 to 2.5	Pass
								10	3.91	4.100	0.0011	-2.5 to 2.5	Pass
								30	3.91	3.700	0.0010	-2.5 to 2.5	Pass
								40	3.91	4.000	0.0011	-2.5 to 2.5	Pass
					50	3.91	0.600	0.0002	-2.5 to 2.5	Pass			
		3695	50	0	20	3.6	-1.200	-0.0003	-2.5 to 2.5	Pass			
	3.91					3.600	0.0010	-2.5 to 2.5	Pass				
	4.3					-1.800	-0.0005	-2.5 to 2.5	Pass				
								-30	3.91	2.200	0.0006	-2.5 to 2.5	Pass
								-20	3.91	-4.800	-0.0013	-2.5 to 2.5	Pass
								-10	3.91	-9.000	-0.0024	-2.5 to 2.5	Pass
							0	3.91	-8.700	-0.0024	-2.5 to 2.5	Pass	
							10	3.91	0.900	0.0002	-2.5 to 2.5	Pass	
							30	3.91	-0.800	-0.0002	-2.5 to 2.5	Pass	
							40	3.91	-2.500	-0.0007	-2.5 to 2.5	Pass	
				50	3.91	-8.900	-0.0024	-2.5 to 2.5	Pass				
64QAM	3555	50	0	20	3.6	0.800	0.0002	-2.5 to 2.5	Pass				
					3.91	6.400	0.0018	-2.5 to 2.5	Pass				
					4.3	0.600	0.0002	-2.5 to 2.5	Pass				
								-30	3.91	9.900	0.0028	-2.5 to 2.5	Pass
								-20	3.91	1.300	0.0004	-2.5 to 2.5	Pass
								-10	3.91	2.600	0.0007	-2.5 to 2.5	Pass
								0	3.91	-17.900	-0.0050	-2.5 to 2.5	Pass
								10	3.91	6.900	0.0019	-2.5 to 2.5	Pass
								30	3.91	-12.500	-0.0035	-2.5 to 2.5	Pass
								40	3.91	-15.800	-0.0044	-2.5 to 2.5	Pass
					50	3.91	-4.600	-0.0013	-2.5 to 2.5	Pass			
		3625	50	0	20	3.6	12.000	0.0033	-2.5 to 2.5	Pass			
	3.91					28.900	0.0080	-2.5 to 2.5	Pass				
	4.3					4.000	0.0011	-2.5 to 2.5	Pass				
								-30	3.91	-4.000	-0.0011	-2.5 to 2.5	Pass
								-20	3.91	-26.700	-0.0074	-2.5 to 2.5	Pass
								-10	3.91	4.800	0.0013	-2.5 to 2.5	Pass
								0	3.91	14.400	0.0040	-2.5 to 2.5	Pass

				10	3.91	-16.500	-0.0046	-2.5 to 2.5	Pass				
				30	3.91	11.500	0.0032	-2.5 to 2.5	Pass				
				40	3.91	-25.600	-0.0071	-2.5 to 2.5	Pass				
				50	3.91	-1.500	-0.0004	-2.5 to 2.5	Pass				
	3695	50	0	20	3.6	10.200	0.0028	-2.5 to 2.5	Pass				
					3.91	-0.500	-0.0001	-2.5 to 2.5	Pass				
					4.3	0.700	0.0002	-2.5 to 2.5	Pass				
				-30	3.91	-4.200	-0.0011	-2.5 to 2.5	Pass				
				-20	3.91	7.400	0.0020	-2.5 to 2.5	Pass				
				-10	3.91	-2.100	-0.0006	-2.5 to 2.5	Pass				
				0	3.91	-5.500	-0.0015	-2.5 to 2.5	Pass				
				10	3.91	2.600	0.0007	-2.5 to 2.5	Pass				
				30	3.91	-7.200	-0.0019	-2.5 to 2.5	Pass				
				40	3.91	-9.300	-0.0025	-2.5 to 2.5	Pass				
				50	3.91	14.600	0.0040	-2.5 to 2.5	Pass				
				256QAM	3555	50	0	20	3.6	-2.300	-0.0006	-2.5 to 2.5	Pass
									3.91	-1.900	-0.0005	-2.5 to 2.5	Pass
									4.3	3.200	0.0009	-2.5 to 2.5	Pass
								-30	3.91	-2.600	-0.0007	-2.5 to 2.5	Pass
-20	3.91	0.700	0.0002					-2.5 to 2.5	Pass				
-10	3.91	3.800	0.0011					-2.5 to 2.5	Pass				
0	3.91	-3.100	-0.0009					-2.5 to 2.5	Pass				
10	3.91	-3.400	-0.0010					-2.5 to 2.5	Pass				
30	3.91	-0.900	-0.0003					-2.5 to 2.5	Pass				
40	3.91	-1.700	-0.0005					-2.5 to 2.5	Pass				
50	3.91	0.200	0.0001					-2.5 to 2.5	Pass				
3625	50	0	20					3.6	1.800	0.0005	-2.5 to 2.5	Pass	
								3.91	-0.300	-0.0001	-2.5 to 2.5	Pass	
								4.3	1.300	0.0004	-2.5 to 2.5	Pass	
			-30		3.91	3.800	0.0010	-2.5 to 2.5	Pass				
			-20		3.91	-0.400	-0.0001	-2.5 to 2.5	Pass				
			-10		3.91	-0.200	-0.0001	-2.5 to 2.5	Pass				
			0		3.91	3.200	0.0009	-2.5 to 2.5	Pass				
			10		3.91	-5.800	-0.0016	-2.5 to 2.5	Pass				
			30		3.91	3.400	0.0009	-2.5 to 2.5	Pass				
			40		3.91	7.700	0.0021	-2.5 to 2.5	Pass				
			50		3.91	9.700	0.0027	-2.5 to 2.5	Pass				
			3695		50	0	20	3.6	-1.200	-0.0003	-2.5 to 2.5	Pass	
								3.91	-2.700	-0.0007	-2.5 to 2.5	Pass	
								4.3	-1.000	-0.0003	-2.5 to 2.5	Pass	
							-30	3.91	-2.300	-0.0006	-2.5 to 2.5	Pass	
-20	3.91	-1.100					-0.0003	-2.5 to 2.5	Pass				
-10	3.91	-3.300					-0.0009	-2.5 to 2.5	Pass				
0	3.91	-2.700					-0.0007	-2.5 to 2.5	Pass				
10	3.91	-1.000		-0.0003			-2.5 to 2.5	Pass					
30	3.91	-2.200		-0.0006			-2.5 to 2.5	Pass					
40	3.91	-0.800		-0.0002			-2.5 to 2.5	Pass					
50	3.91	0.800	0.0002	-2.5 to 2.5	Pass								

### 3.1.3 B48\_15MHz

Band: 48 / Bandwidth: 15MHz													
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict				
		Size	Offset				Result	Limit					
QPSK	3557.5	75	0	20	3.6	0.700	0.0002	-2.5 to 2.5	Pass				
									3.91	1.800	0.0005	-2.5 to 2.5	Pass
									4.3	1.500	0.0004	-2.5 to 2.5	Pass

				-30	3.91	2.800	0.0008	-2.5 to 2.5	Pass
				-20	3.91	-6.700	-0.0019	-2.5 to 2.5	Pass
				-10	3.91	3.700	0.0010	-2.5 to 2.5	Pass
				0	3.91	3.300	0.0009	-2.5 to 2.5	Pass
				10	3.91	1.100	0.0003	-2.5 to 2.5	Pass
				30	3.91	-1.500	-0.0004	-2.5 to 2.5	Pass
				40	3.91	-0.200	-0.0001	-2.5 to 2.5	Pass
				50	3.91	1.500	0.0004	-2.5 to 2.5	Pass
	3625	75	0	20	3.6	0.800	0.0002	-2.5 to 2.5	Pass
					3.91	-6.800	-0.0019	-2.5 to 2.5	Pass
					4.3	-3.700	-0.0010	-2.5 to 2.5	Pass
				-30	3.91	-1.700	-0.0005	-2.5 to 2.5	Pass
				-20	3.91	1.900	0.0005	-2.5 to 2.5	Pass
				-10	3.91	1.000	0.0003	-2.5 to 2.5	Pass
				0	3.91	3.300	0.0009	-2.5 to 2.5	Pass
				10	3.91	1.900	0.0005	-2.5 to 2.5	Pass
				30	3.91	-1.300	-0.0004	-2.5 to 2.5	Pass
				40	3.91	4.500	0.0012	-2.5 to 2.5	Pass
				50	3.91	-4.500	-0.0012	-2.5 to 2.5	Pass
				3692.5	75	0	20	3.6	-2.100
	3.91	0.400	0.0001					-2.5 to 2.5	Pass
	4.3	6.100	0.0017					-2.5 to 2.5	Pass
	-30	3.91	-5.900				-0.0016	-2.5 to 2.5	Pass
	-20	3.91	0.900				0.0002	-2.5 to 2.5	Pass
	-10	3.91	4.200				0.0011	-2.5 to 2.5	Pass
	0	3.91	-0.100				0.0000	-2.5 to 2.5	Pass
	10	3.91	0.100				0.0000	-2.5 to 2.5	Pass
	30	3.91	-0.800				-0.0002	-2.5 to 2.5	Pass
	40	3.91	5.100				0.0014	-2.5 to 2.5	Pass
	50	3.91	-0.100				0.0000	-2.5 to 2.5	Pass
16QAM	3557.5	75	0				20	3.6	-1.500
				3.91	0.800	0.0002		-2.5 to 2.5	Pass
				4.3	-0.200	-0.0001		-2.5 to 2.5	Pass
				-30	3.91	2.400	0.0007	-2.5 to 2.5	Pass
				-20	3.91	-0.500	-0.0001	-2.5 to 2.5	Pass
				-10	3.91	3.500	0.0010	-2.5 to 2.5	Pass
				0	3.91	2.800	0.0008	-2.5 to 2.5	Pass
				10	3.91	2.900	0.0008	-2.5 to 2.5	Pass
				30	3.91	5.700	0.0016	-2.5 to 2.5	Pass
				40	3.91	0.700	0.0002	-2.5 to 2.5	Pass
				50	3.91	2.500	0.0007	-2.5 to 2.5	Pass
				3625	75	0	20	3.6	7.800
	3.91	4.200	0.0012					-2.5 to 2.5	Pass
	4.3	3.800	0.0010					-2.5 to 2.5	Pass
	-30	3.91	4.700				0.0013	-2.5 to 2.5	Pass
	-20	3.91	-0.100				0.0000	-2.5 to 2.5	Pass
	-10	3.91	-1.200				-0.0003	-2.5 to 2.5	Pass
	0	3.91	3.000				0.0008	-2.5 to 2.5	Pass
	10	3.91	4.400				0.0012	-2.5 to 2.5	Pass
	30	3.91	-1.100				-0.0003	-2.5 to 2.5	Pass
	40	3.91	2.200				0.0006	-2.5 to 2.5	Pass
	50	3.91	2.400				0.0007	-2.5 to 2.5	Pass
	3692.5	75	0				20	3.6	1.200
				3.91	3.800	0.0010		-2.5 to 2.5	Pass
				4.3	-0.300	-0.0001		-2.5 to 2.5	Pass
				-30	3.91	1.000	0.0003	-2.5 to 2.5	Pass
				-20	3.91	0.800	0.0002	-2.5 to 2.5	Pass
				-10	3.91	-0.600	-0.0002	-2.5 to 2.5	Pass
	0	3.91	7.300	0.0020	-2.5 to 2.5	Pass			

				10	3.91	-1.900	-0.0005	-2.5 to 2.5	Pass
				30	3.91	-0.100	0.0000	-2.5 to 2.5	Pass
				40	3.91	-1.100	-0.0003	-2.5 to 2.5	Pass
				50	3.91	0.700	0.0002	-2.5 to 2.5	Pass
64QAM	3557.5	75	0	20	3.6	4.500	0.0013	-2.5 to 2.5	Pass
					3.91	-6.000	-0.0017	-2.5 to 2.5	Pass
					4.3	0.400	0.0001	-2.5 to 2.5	Pass
				-30	3.91	-7.000	-0.0020	-2.5 to 2.5	Pass
				-20	3.91	-0.300	-0.0001	-2.5 to 2.5	Pass
				-10	3.91	-10.600	-0.0030	-2.5 to 2.5	Pass
				0	3.91	-7.800	-0.0022	-2.5 to 2.5	Pass
				10	3.91	-8.800	-0.0025	-2.5 to 2.5	Pass
				30	3.91	5.800	0.0016	-2.5 to 2.5	Pass
				40	3.91	9.200	0.0026	-2.5 to 2.5	Pass
	50	3.91	-10.800	-0.0030	-2.5 to 2.5	Pass			
	3625	75	0	20	3.6	-5.900	-0.0016	-2.5 to 2.5	Pass
					3.91	8.300	0.0023	-2.5 to 2.5	Pass
					4.3	17.600	0.0049	-2.5 to 2.5	Pass
				-30	3.91	-11.300	-0.0031	-2.5 to 2.5	Pass
				-20	3.91	11.800	0.0033	-2.5 to 2.5	Pass
				-10	3.91	11.500	0.0032	-2.5 to 2.5	Pass
				0	3.91	6.200	0.0017	-2.5 to 2.5	Pass
				10	3.91	-17.200	-0.0047	-2.5 to 2.5	Pass
				30	3.91	-20.500	-0.0057	-2.5 to 2.5	Pass
				40	3.91	-7.400	-0.0020	-2.5 to 2.5	Pass
	50	3.91	11.500	0.0032	-2.5 to 2.5	Pass			
	3692.5	75	0	20	3.6	18.300	0.0050	-2.5 to 2.5	Pass
					3.91	8.100	0.0022	-2.5 to 2.5	Pass
					4.3	-9.400	-0.0025	-2.5 to 2.5	Pass
				-30	3.91	6.400	0.0017	-2.5 to 2.5	Pass
				-20	3.91	-0.900	-0.0002	-2.5 to 2.5	Pass
				-10	3.91	8.100	0.0022	-2.5 to 2.5	Pass
				0	3.91	6.400	0.0017	-2.5 to 2.5	Pass
				10	3.91	3.000	0.0008	-2.5 to 2.5	Pass
30				3.91	8.900	0.0024	-2.5 to 2.5	Pass	
40				3.91	29.300	0.0079	-2.5 to 2.5	Pass	
50	3.91	1.600	0.0004	-2.5 to 2.5	Pass				
256QAM	3557.5	75	0	20	3.6	2.200	0.0006	-2.5 to 2.5	Pass
					3.91	-4.900	-0.0014	-2.5 to 2.5	Pass
					4.3	-0.500	-0.0001	-2.5 to 2.5	Pass
				-30	3.91	2.100	0.0006	-2.5 to 2.5	Pass
				-20	3.91	5.000	0.0014	-2.5 to 2.5	Pass
				-10	3.91	10.700	0.0030	-2.5 to 2.5	Pass
				0	3.91	-1.700	-0.0005	-2.5 to 2.5	Pass
				10	3.91	4.400	0.0012	-2.5 to 2.5	Pass
				30	3.91	-0.500	-0.0001	-2.5 to 2.5	Pass
				40	3.91	3.100	0.0009	-2.5 to 2.5	Pass
	50	3.91	-8.200	-0.0023	-2.5 to 2.5	Pass			
	3625	75	0	20	3.6	3.700	0.0010	-2.5 to 2.5	Pass
					3.91	1.600	0.0004	-2.5 to 2.5	Pass
					4.3	-2.100	-0.0006	-2.5 to 2.5	Pass
				-30	3.91	2.800	0.0008	-2.5 to 2.5	Pass
				-20	3.91	4.300	0.0012	-2.5 to 2.5	Pass
				-10	3.91	10.000	0.0028	-2.5 to 2.5	Pass
				0	3.91	3.100	0.0009	-2.5 to 2.5	Pass
				10	3.91	0.900	0.0002	-2.5 to 2.5	Pass
				30	3.91	0.300	0.0001	-2.5 to 2.5	Pass
40				3.91	7.600	0.0021	-2.5 to 2.5	Pass	
50	3.91	1.000	0.0003	-2.5 to 2.5	Pass				

	3692.5	75	0	20	3.6	4.800	0.0013	-2.5 to 2.5	Pass
					3.91	2.800	0.0008	-2.5 to 2.5	Pass
					4.3	4.500	0.0012	-2.5 to 2.5	Pass
				-30	3.91	1.600	0.0004	-2.5 to 2.5	Pass
				-20	3.91	4.200	0.0011	-2.5 to 2.5	Pass
				-10	3.91	5.500	0.0015	-2.5 to 2.5	Pass
				0	3.91	-0.200	-0.0001	-2.5 to 2.5	Pass
				10	3.91	3.400	0.0009	-2.5 to 2.5	Pass
				30	3.91	2.000	0.0005	-2.5 to 2.5	Pass
				40	3.91	1.100	0.0003	-2.5 to 2.5	Pass
50	3.91	2.500	0.0007	-2.5 to 2.5	Pass				

### 3.1.4 B48\_20MHz

Band: 48 / Bandwidth: 20MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	3560	100	0	20	3.6	-4.000	-0.0011	-2.5 to 2.5	Pass
					3.91	-2.300	-0.0006	-2.5 to 2.5	Pass
					4.3	-3.800	-0.0011	-2.5 to 2.5	Pass
				-30	3.91	-2.400	-0.0007	-2.5 to 2.5	Pass
				-20	3.91	2.800	0.0008	-2.5 to 2.5	Pass
				-10	3.91	0.100	0.0000	-2.5 to 2.5	Pass
				0	3.91	-3.800	-0.0011	-2.5 to 2.5	Pass
				10	3.91	-3.000	-0.0008	-2.5 to 2.5	Pass
				30	3.91	-1.800	-0.0005	-2.5 to 2.5	Pass
				40	3.91	0.700	0.0002	-2.5 to 2.5	Pass
	50	3.91	-10.200	-0.0029	-2.5 to 2.5	Pass			
	3625	100	0	20	3.6	5.100	0.0014	-2.5 to 2.5	Pass
					3.91	-0.900	-0.0002	-2.5 to 2.5	Pass
					4.3	-0.900	-0.0002	-2.5 to 2.5	Pass
				-30	3.91	0.900	0.0002	-2.5 to 2.5	Pass
				-20	3.91	9.300	0.0026	-2.5 to 2.5	Pass
				-10	3.91	3.800	0.0010	-2.5 to 2.5	Pass
				0	3.91	-4.800	-0.0013	-2.5 to 2.5	Pass
				10	3.91	0.500	0.0001	-2.5 to 2.5	Pass
				30	3.91	1.700	0.0005	-2.5 to 2.5	Pass
				40	3.91	2.900	0.0008	-2.5 to 2.5	Pass
	50	3.91	3.200	0.0009	-2.5 to 2.5	Pass			
	3690	100	0	20	3.6	-2.600	-0.0007	-2.5 to 2.5	Pass
					3.91	-1.400	-0.0004	-2.5 to 2.5	Pass
					4.3	-0.600	-0.0002	-2.5 to 2.5	Pass
				-30	3.91	-0.300	-0.0001	-2.5 to 2.5	Pass
				-20	3.91	-4.200	-0.0011	-2.5 to 2.5	Pass
				-10	3.91	-7.200	-0.0020	-2.5 to 2.5	Pass
				0	3.91	3.200	0.0009	-2.5 to 2.5	Pass
				10	3.91	-2.200	-0.0006	-2.5 to 2.5	Pass
30				3.91	6.000	0.0016	-2.5 to 2.5	Pass	
40				3.91	1.700	0.0005	-2.5 to 2.5	Pass	
50	3.91	-2.000	-0.0005	-2.5 to 2.5	Pass				
16QAM	3560	100	0	20	3.6	-1.700	-0.0005	-2.5 to 2.5	Pass
					3.91	-8.100	-0.0023	-2.5 to 2.5	Pass
					4.3	-4.100	-0.0012	-2.5 to 2.5	Pass
				-30	3.91	1.900	0.0005	-2.5 to 2.5	Pass
				-20	3.91	-0.900	-0.0003	-2.5 to 2.5	Pass
				-10	3.91	-4.900	-0.0014	-2.5 to 2.5	Pass
0	3.91	-4.400	-0.0012	-2.5 to 2.5	Pass				

				10	3.91	-2.200	-0.0006	-2.5 to 2.5	Pass	
				30	3.91	-4.600	-0.0013	-2.5 to 2.5	Pass	
				40	3.91	-10.700	-0.0030	-2.5 to 2.5	Pass	
				50	3.91	1.200	0.0003	-2.5 to 2.5	Pass	
	3625	100	0	20	3.6	-0.600	-0.0002	-2.5 to 2.5	Pass	
					3.91	1.100	0.0003	-2.5 to 2.5	Pass	
					4.3	1.300	0.0004	-2.5 to 2.5	Pass	
				-30	3.91	4.400	0.0012	-2.5 to 2.5	Pass	
				-20	3.91	0.900	0.0002	-2.5 to 2.5	Pass	
				-10	3.91	0.000	0.0000	-2.5 to 2.5	Pass	
				0	3.91	-0.100	0.0000	-2.5 to 2.5	Pass	
				10	3.91	3.500	0.0010	-2.5 to 2.5	Pass	
				30	3.91	1.500	0.0004	-2.5 to 2.5	Pass	
				40	3.91	0.700	0.0002	-2.5 to 2.5	Pass	
				50	3.91	0.200	0.0001	-2.5 to 2.5	Pass	
				3690	100	0	20	3.6	-0.500	-0.0001
	3.91	-1.600	-0.0004					-2.5 to 2.5	Pass	
	4.3	5.000	0.0014					-2.5 to 2.5	Pass	
	-30	3.91	1.200				0.0003	-2.5 to 2.5	Pass	
	-20	3.91	-0.500				-0.0001	-2.5 to 2.5	Pass	
	-10	3.91	-1.000				-0.0003	-2.5 to 2.5	Pass	
	0	3.91	0.900				0.0002	-2.5 to 2.5	Pass	
	10	3.91	1.300				0.0004	-2.5 to 2.5	Pass	
	30	3.91	-7.200				-0.0020	-2.5 to 2.5	Pass	
	40	3.91	-2.300				-0.0006	-2.5 to 2.5	Pass	
	50	3.91	2.100				0.0006	-2.5 to 2.5	Pass	
	64QAM	3560	100				0	20	3.6	2.300
				3.91	5.200	0.0015			-2.5 to 2.5	Pass
				4.3	-2.200	-0.0006			-2.5 to 2.5	Pass
-30				3.91	-8.200	-0.0023		-2.5 to 2.5	Pass	
-20				3.91	-13.400	-0.0038		-2.5 to 2.5	Pass	
-10				3.91	1.300	0.0004		-2.5 to 2.5	Pass	
0				3.91	-4.200	-0.0012		-2.5 to 2.5	Pass	
10				3.91	-1.300	-0.0004		-2.5 to 2.5	Pass	
30				3.91	0.900	0.0003		-2.5 to 2.5	Pass	
40				3.91	-5.500	-0.0015		-2.5 to 2.5	Pass	
50				3.91	-2.700	-0.0008		-2.5 to 2.5	Pass	
3625				100	0	20		3.6	5.500	0.0015
		3.91	-9.100				-0.0025	-2.5 to 2.5	Pass	
		4.3	14.300				0.0039	-2.5 to 2.5	Pass	
		-30	3.91			-1.700	-0.0005	-2.5 to 2.5	Pass	
		-20	3.91			-2.100	-0.0006	-2.5 to 2.5	Pass	
		-10	3.91			-1.200	-0.0003	-2.5 to 2.5	Pass	
		0	3.91			9.300	0.0026	-2.5 to 2.5	Pass	
		10	3.91			-6.400	-0.0018	-2.5 to 2.5	Pass	
		30	3.91			9.300	0.0026	-2.5 to 2.5	Pass	
		40	3.91			-10.800	-0.0030	-2.5 to 2.5	Pass	
		50	3.91			-1.500	-0.0004	-2.5 to 2.5	Pass	
		3690	100			0	20	3.6	7.000	0.0019
3.91				-11.500	-0.0031			-2.5 to 2.5	Pass	
4.3				-14.700	-0.0040			-2.5 to 2.5	Pass	
-30				3.91	5.900		0.0016	-2.5 to 2.5	Pass	
-20				3.91	13.700		0.0037	-2.5 to 2.5	Pass	
-10				3.91	1.800		0.0005	-2.5 to 2.5	Pass	
0				3.91	-16.500		-0.0045	-2.5 to 2.5	Pass	
10				3.91	-20.400		-0.0055	-2.5 to 2.5	Pass	
30	3.91			1.400	0.0004		-2.5 to 2.5	Pass		
40	3.91			-2.100	-0.0006		-2.5 to 2.5	Pass		
50	3.91			17.700	0.0048		-2.5 to 2.5	Pass		

256QAM	3560	100	0	20	3.6	0.400	0.0001	-2.5 to 2.5	Pass
					3.91	0.200	0.0001	-2.5 to 2.5	Pass
					4.3	-1.000	-0.0003	-2.5 to 2.5	Pass
				-30	3.91	-1.400	-0.0004	-2.5 to 2.5	Pass
					-20	3.91	6.000	0.0017	-2.5 to 2.5
				-10	3.91	-0.400	-0.0001	-2.5 to 2.5	Pass
					0	3.91	1.700	0.0005	-2.5 to 2.5
				10	3.91	-4.500	-0.0013	-2.5 to 2.5	Pass
					30	3.91	4.200	0.0012	-2.5 to 2.5
				40	3.91	-3.100	-0.0009	-2.5 to 2.5	Pass
	50	3.91	-3.000		-0.0008	-2.5 to 2.5	Pass		
	3625	100	0	20	3.6	0.300	0.0001	-2.5 to 2.5	Pass
					3.91	-0.600	-0.0002	-2.5 to 2.5	Pass
					4.3	5.300	0.0015	-2.5 to 2.5	Pass
				-30	3.91	3.800	0.0010	-2.5 to 2.5	Pass
					-20	3.91	-7.800	-0.0022	-2.5 to 2.5
				-10	3.91	1.300	0.0004	-2.5 to 2.5	Pass
					0	3.91	1.100	0.0003	-2.5 to 2.5
				10	3.91	2.400	0.0007	-2.5 to 2.5	Pass
					30	3.91	3.000	0.0008	-2.5 to 2.5
				40	3.91	3.000	0.0008	-2.5 to 2.5	Pass
	50	3.91	4.000		0.0011	-2.5 to 2.5	Pass		
	3690	100	0	20	3.6	-0.500	-0.0001	-2.5 to 2.5	Pass
					3.91	-4.200	-0.0011	-2.5 to 2.5	Pass
					4.3	-2.200	-0.0006	-2.5 to 2.5	Pass
				-30	3.91	4.100	0.0011	-2.5 to 2.5	Pass
					-20	3.91	-3.300	-0.0009	-2.5 to 2.5
				-10	3.91	3.400	0.0009	-2.5 to 2.5	Pass
					0	3.91	3.500	0.0009	-2.5 to 2.5
				10	3.91	-8.100	-0.0022	-2.5 to 2.5	Pass
30					3.91	-3.300	-0.0009	-2.5 to 2.5	Pass
40				3.91	0.500	0.0001	-2.5 to 2.5	Pass	
	50	3.91	-1.100	-0.0003	-2.5 to 2.5	Pass			

## 4. 99% & 26dB Bandwidth

### 4.1 Test Result

#### 4.1.1 Band48\_OBW

Band: 48 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	3552.5	25	0	4.565	/	Pass
		3625	25	0	4.508	/	Pass
		3697.5	25	0	4.511	/	Pass
	16QAM	3552.5	25	0	4.560	/	Pass
		3625	25	0	4.555	/	Pass
		3697.5	25	0	4.466	/	Pass
	64QAM	3552.5	25	0	4.543	/	Pass
		3625	25	0	4.513	/	Pass
		3697.5	25	0	4.518	/	Pass
256QAM	3552.5	25	0	4.556	/	Pass	
	3625	25	0	4.511	/	Pass	
	3697.5	25	0	4.505	/	Pass	
10	QPSK	3555	50	0	9.068	/	Pass
		3625	50	0	8.988	/	Pass
		3695	50	0	9.070	/	Pass
	16QAM	3555	50	0	9.096	/	Pass
		3625	50	0	8.975	/	Pass
		3695	50	0	8.994	/	Pass
	64QAM	3555	50	0	9.086	/	Pass
		3625	50	0	9.016	/	Pass
		3695	50	0	9.033	/	Pass
256QAM	3555	50	0	9.077	/	Pass	
	3625	50	0	9.086	/	Pass	
	3695	50	0	9.003	/	Pass	
15	QPSK	3557.5	75	0	13.606	/	Pass
		3625	75	0	13.623	/	Pass
		3692.5	75	0	13.478	/	Pass
	16QAM	3557.5	75	0	13.591	/	Pass
		3625	75	0	13.510	/	Pass
		3692.5	75	0	13.515	/	Pass
	64QAM	3557.5	75	0	13.573	/	Pass
		3625	75	0	13.577	/	Pass
		3692.5	75	0	13.501	/	Pass
256QAM	3557.5	75	0	13.595	/	Pass	
	3625	75	0	13.576	/	Pass	
	3692.5	75	0	13.621	/	Pass	
20	QPSK	3560	100	0	18.139	/	Pass
		3625	100	0	17.993	/	Pass
		3690	100	0	18.021	/	Pass
	16QAM	3560	100	0	18.143	/	Pass
		3625	100	0	18.066	/	Pass
		3690	100	0	18.004	/	Pass
	64QAM	3560	100	0	18.156	/	Pass
		3625	100	0	18.131	/	Pass
		3690	100	0	18.037	/	Pass
256QAM	3560	100	0	18.134	/	Pass	
	3625	100	0	18.061	/	Pass	

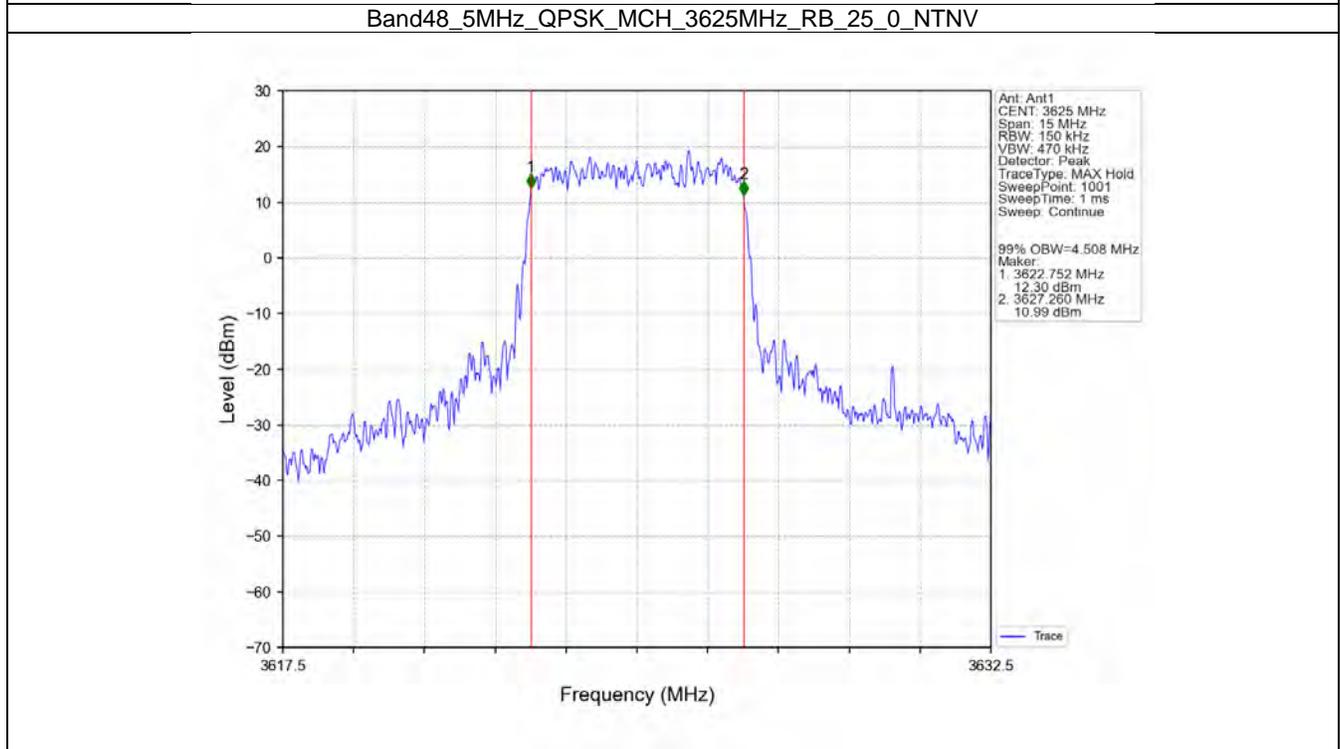
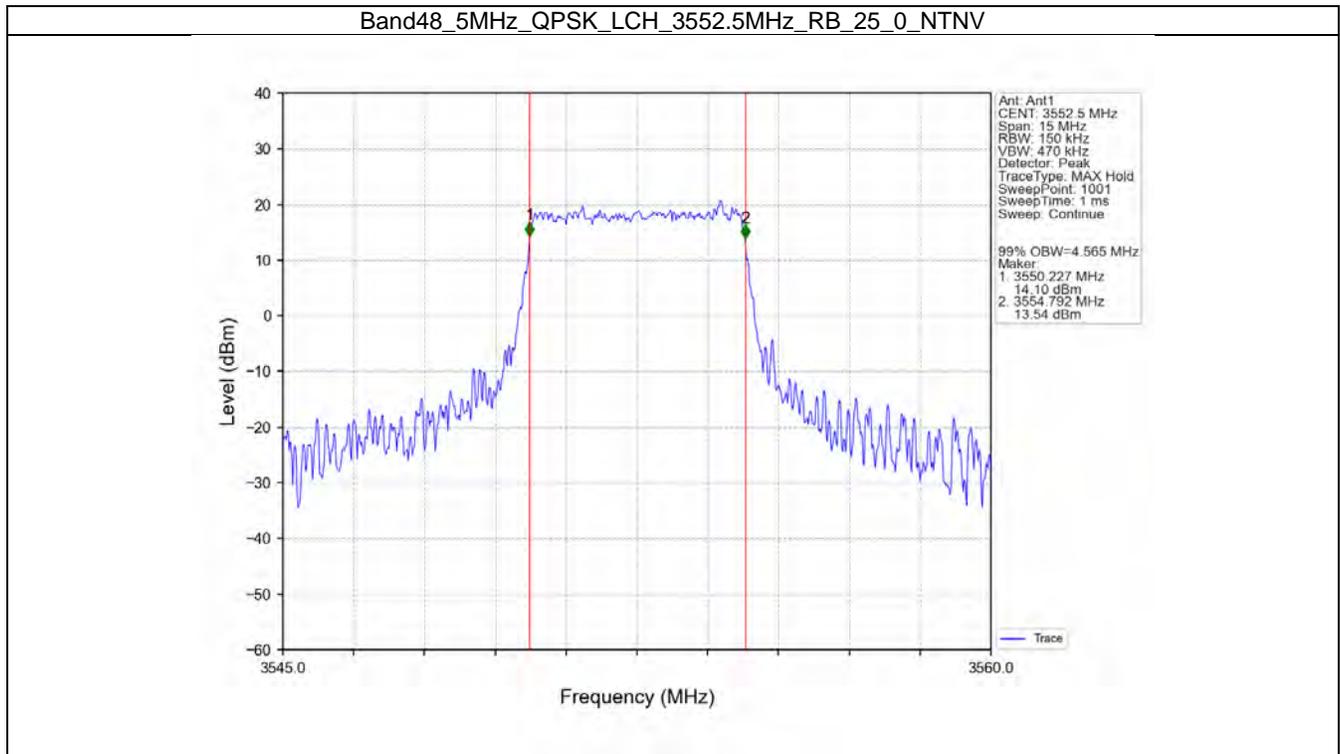
		3690	100	0	17.999	/	Pass
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#### 4.1.2 Band48\_XDB

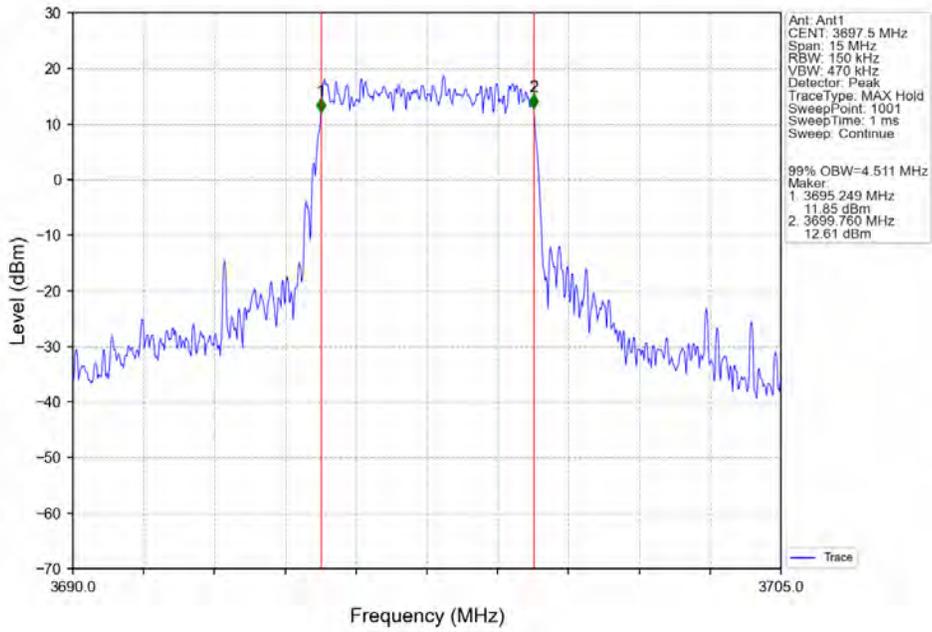
Band: 48 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	3552.5	25	0	5.463	/	Pass
		3625	25	0	4.999	/	Pass
		3697.5	25	0	5.012	/	Pass
	16QAM	3552.5	25	0	5.460	/	Pass
		3625	25	0	4.900	/	Pass
		3697.5	25	0	4.888	/	Pass
	64QAM	3552.5	25	0	5.238	/	Pass
		3625	25	0	4.881	/	Pass
		3697.5	25	0	4.963	/	Pass
	256QAM	3552.5	25	0	5.182	/	Pass
		3625	25	0	4.955	/	Pass
		3697.5	25	0	5.001	/	Pass
10	QPSK	3555	50	0	11.377	/	Pass
		3625	50	0	9.876	/	Pass
		3695	50	0	10.038	/	Pass
	16QAM	3555	50	0	10.131	/	Pass
		3625	50	0	9.748	/	Pass
		3695	50	0	9.647	/	Pass
	64QAM	3555	50	0	10.231	/	Pass
		3625	50	0	9.890	/	Pass
		3695	50	0	9.889	/	Pass
	256QAM	3555	50	0	10.236	/	Pass
		3625	50	0	9.658	/	Pass
		3695	50	0	9.671	/	Pass
15	QPSK	3557.5	75	0	15.342	/	Pass
		3625	75	0	14.993	/	Pass
		3692.5	75	0	14.693	/	Pass
	16QAM	3557.5	75	0	15.433	/	Pass
		3625	75	0	14.569	/	Pass
		3692.5	75	0	14.748	/	Pass
	64QAM	3557.5	75	0	15.195	/	Pass
		3625	75	0	14.548	/	Pass
		3692.5	75	0	14.512	/	Pass
	256QAM	3557.5	75	0	15.741	/	Pass
		3625	75	0	14.525	/	Pass
		3692.5	75	0	14.469	/	Pass
20	QPSK	3560	100	0	20.706	/	Pass
		3625	100	0	19.356	/	Pass
		3690	100	0	19.567	/	Pass
	16QAM	3560	100	0	21.276	/	Pass
		3625	100	0	19.338	/	Pass
		3690	100	0	19.566	/	Pass
	64QAM	3560	100	0	20.476	/	Pass
		3625	100	0	19.353	/	Pass
		3690	100	0	19.574	/	Pass
	256QAM	3560	100	0	19.909	/	Pass
		3625	100	0	19.758	/	Pass
		3690	100	0	19.478	/	Pass

## 4.2 Test Graph

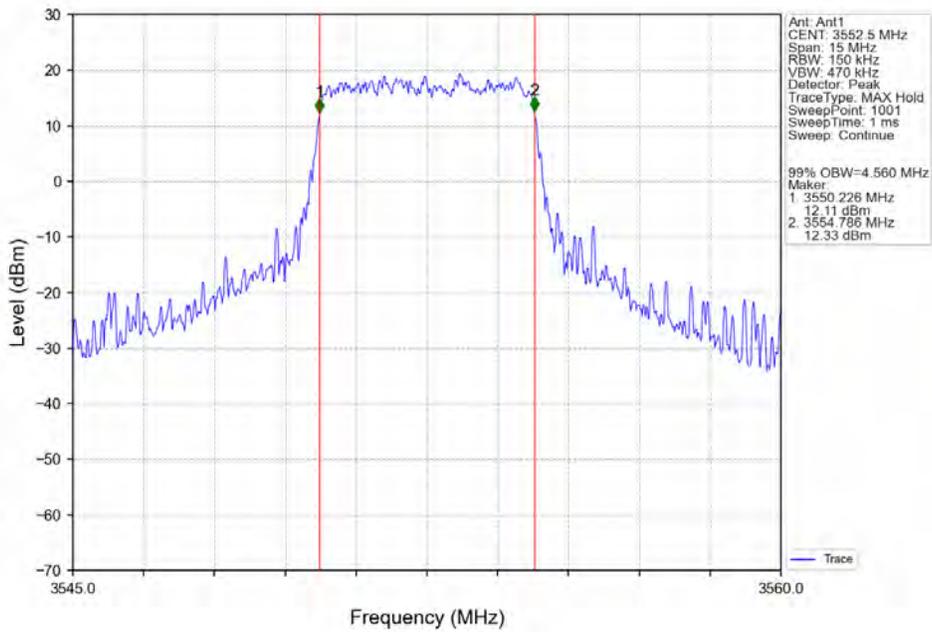
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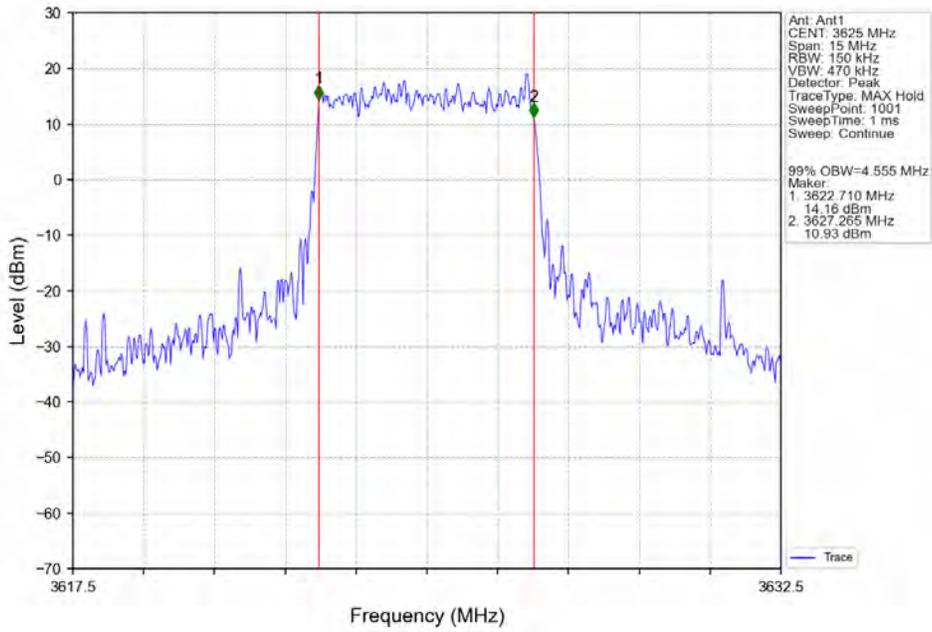
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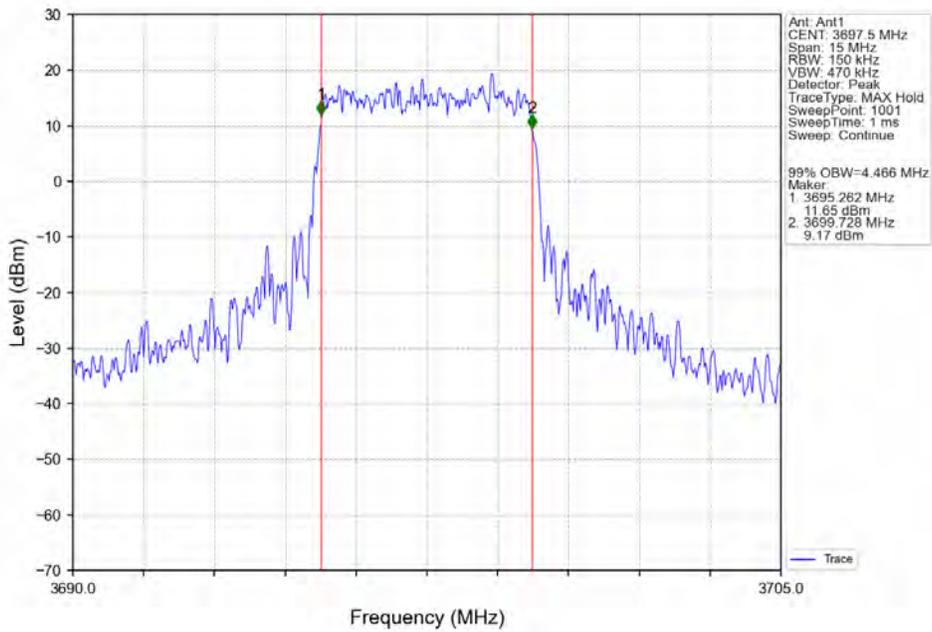
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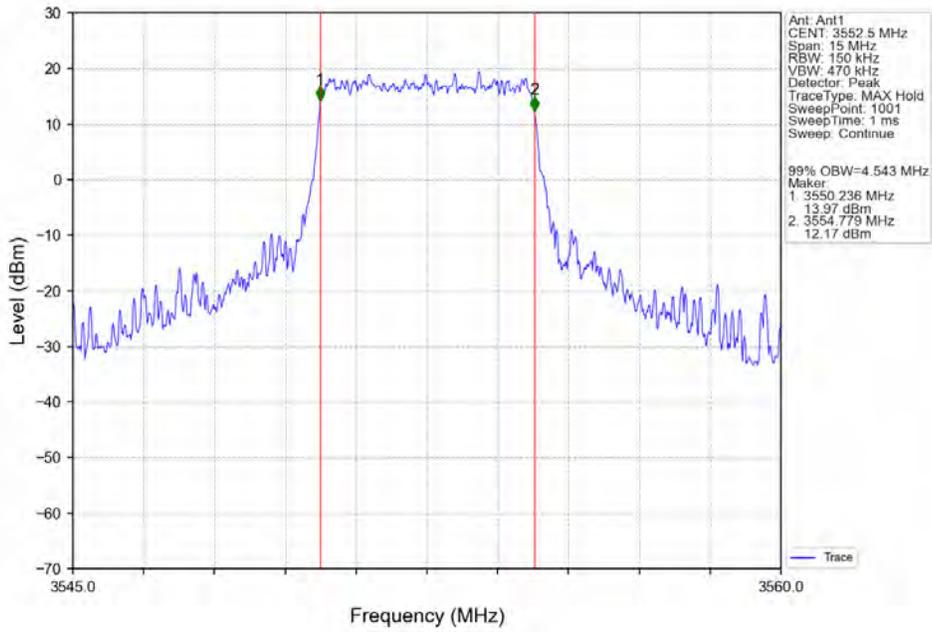
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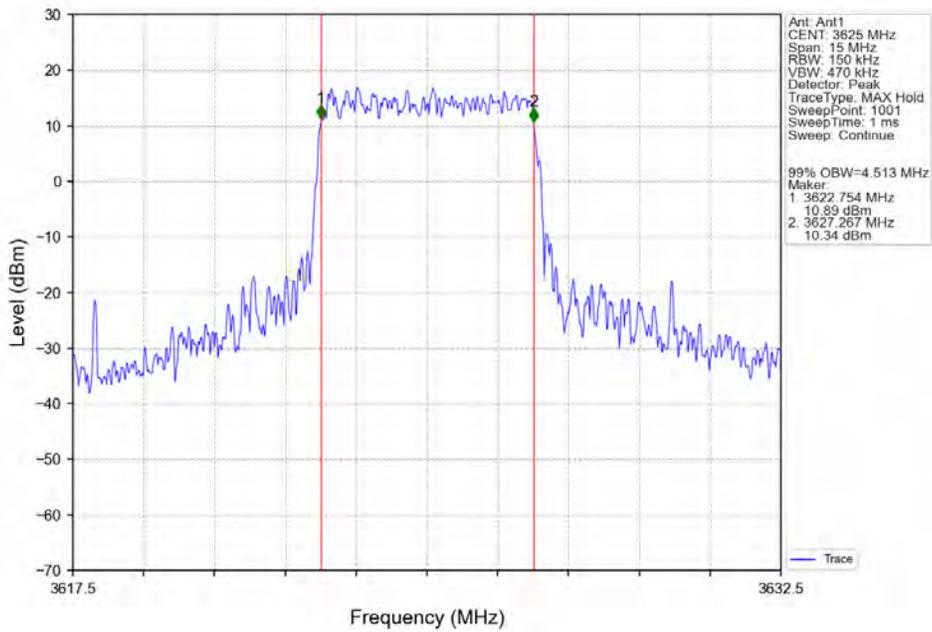
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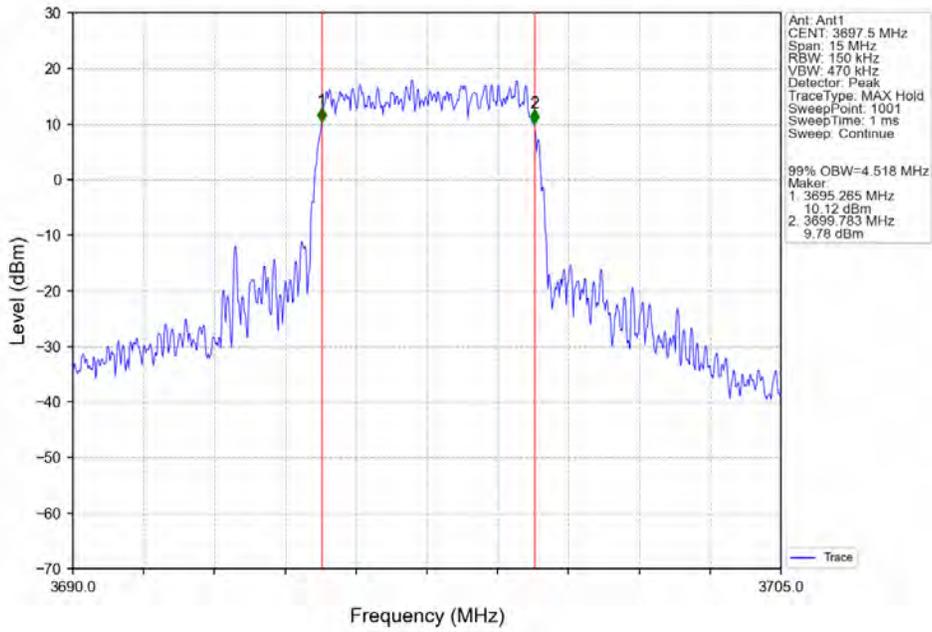
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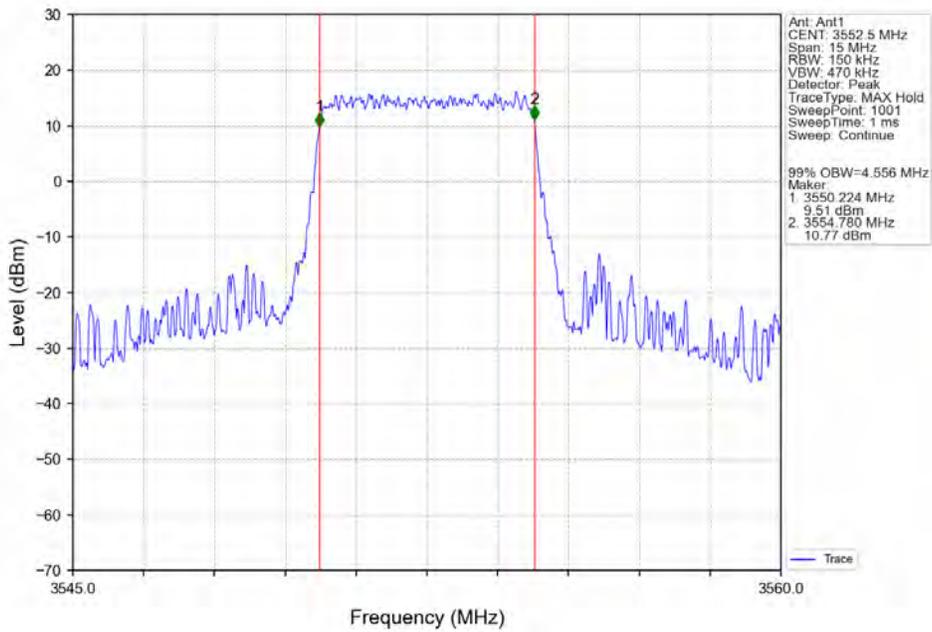
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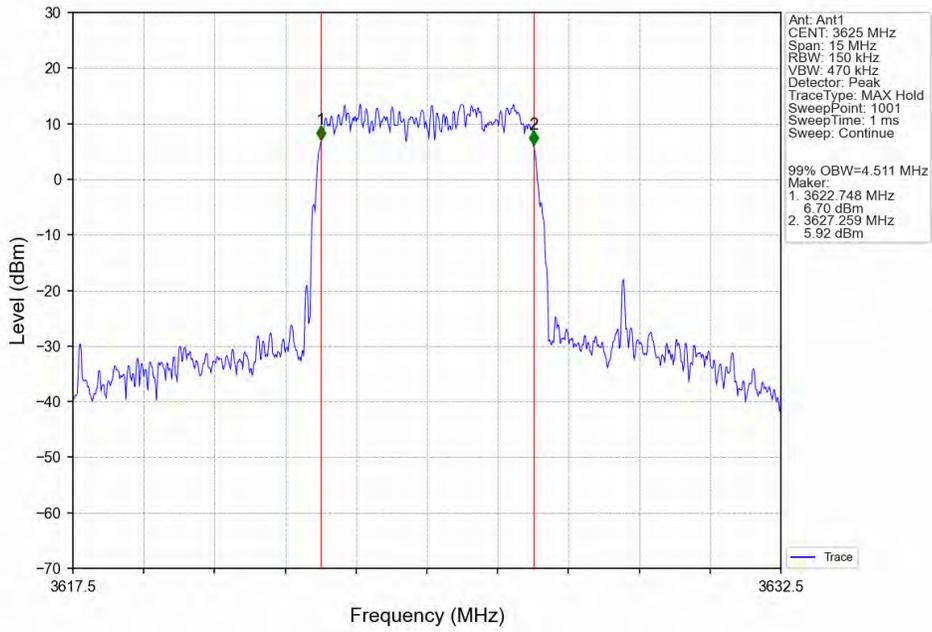
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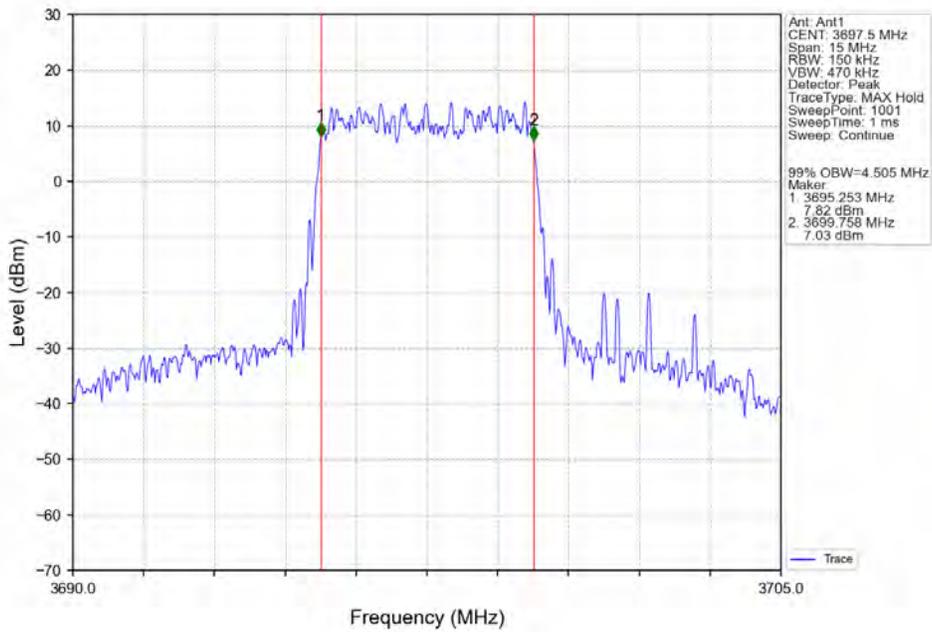
Band48\_5MHz\_256QAM\_LCH\_3552.5MHz\_RB\_25\_0\_NTNV



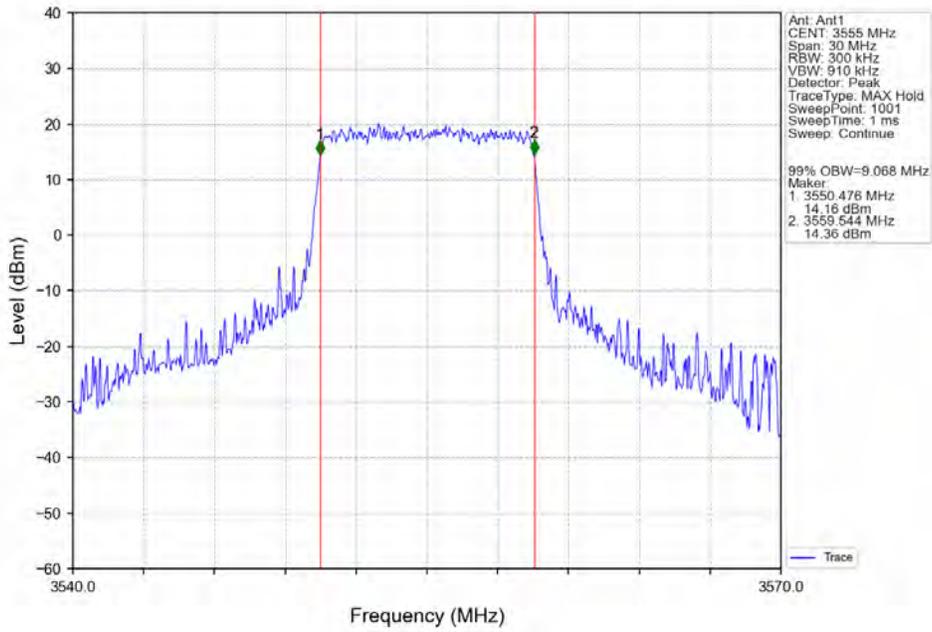
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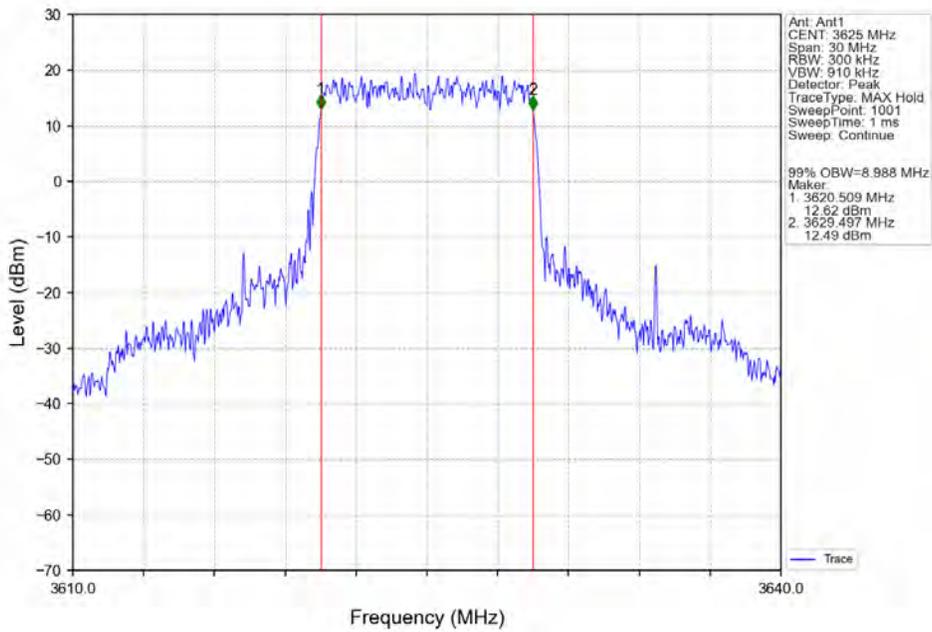
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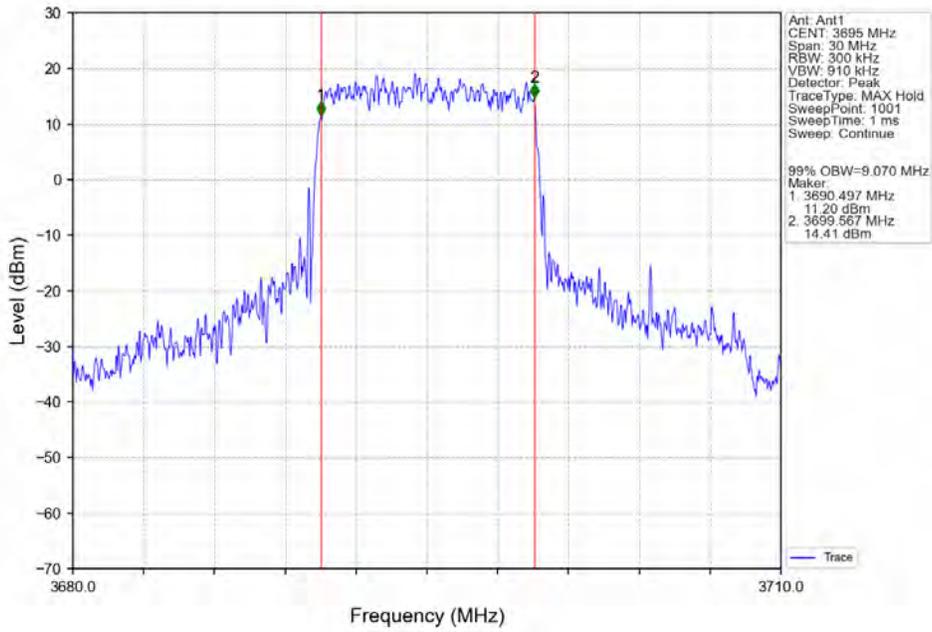
Band48\_10MHz\_QPSK\_LCH\_3555MHz\_RB\_50\_0\_NTNV



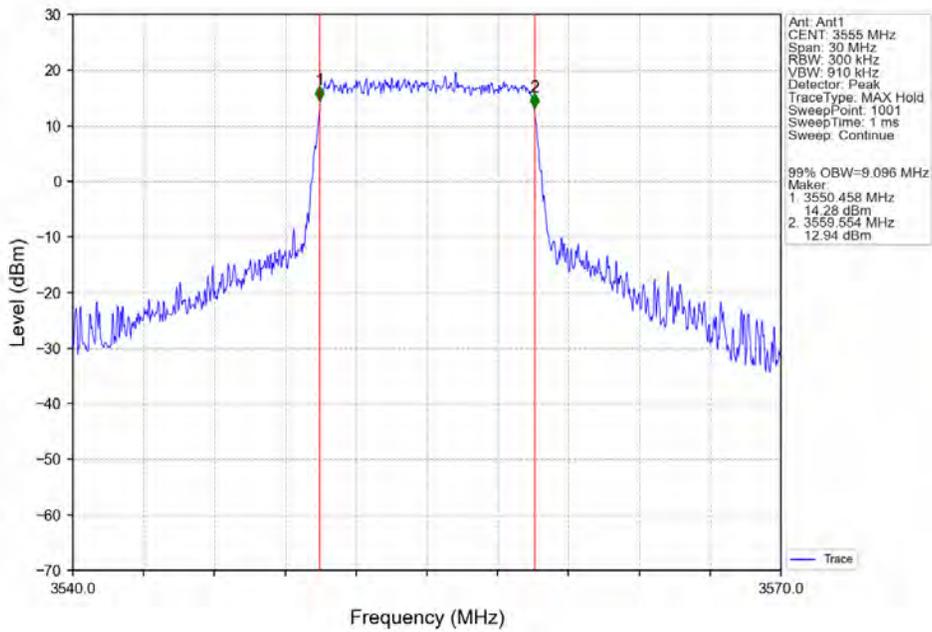
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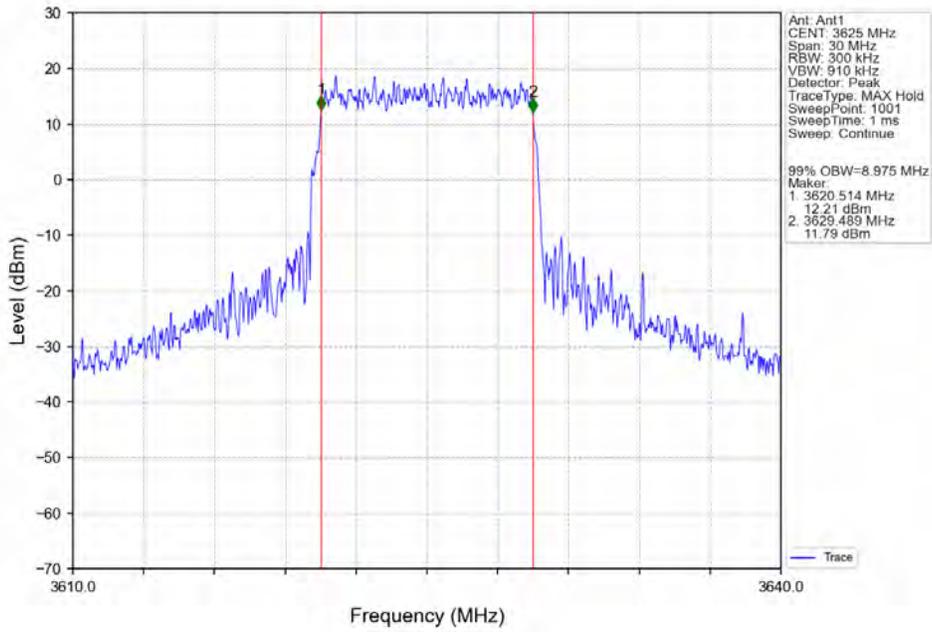
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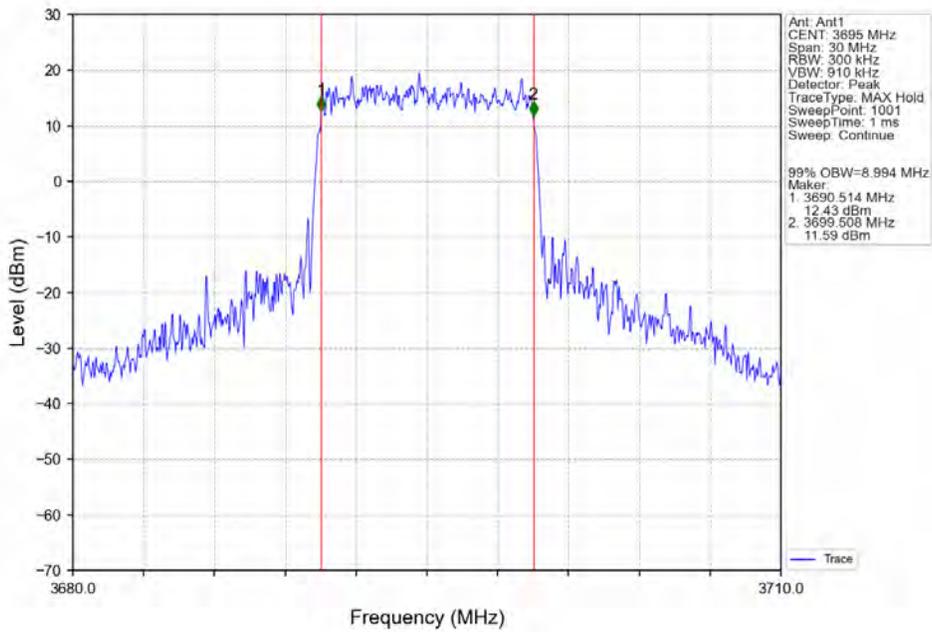
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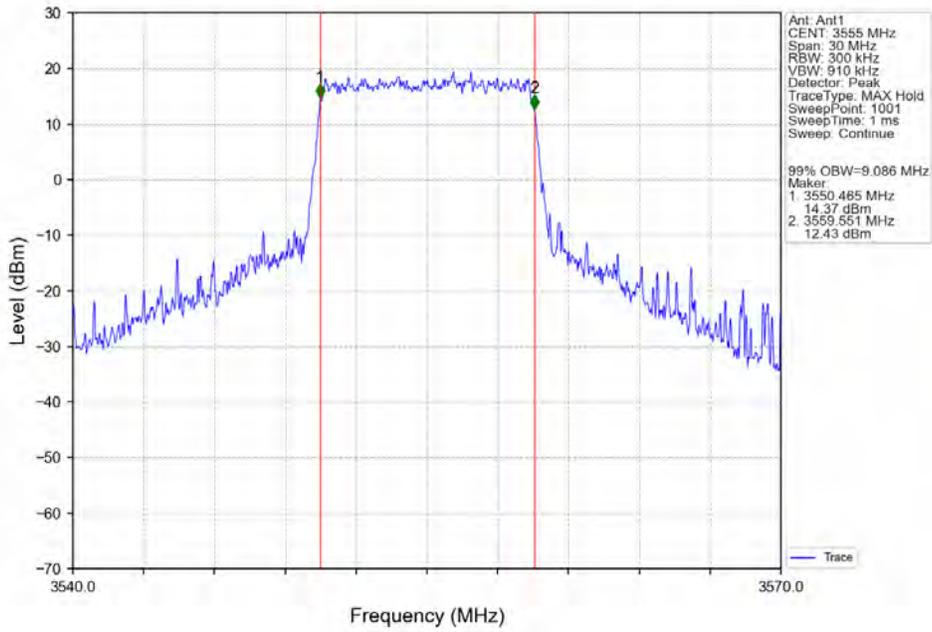
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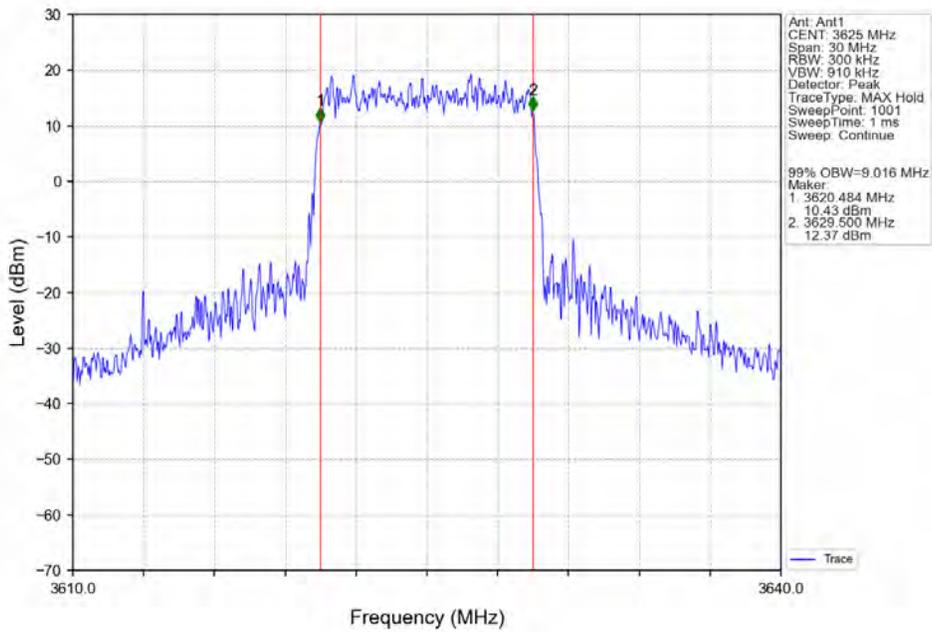
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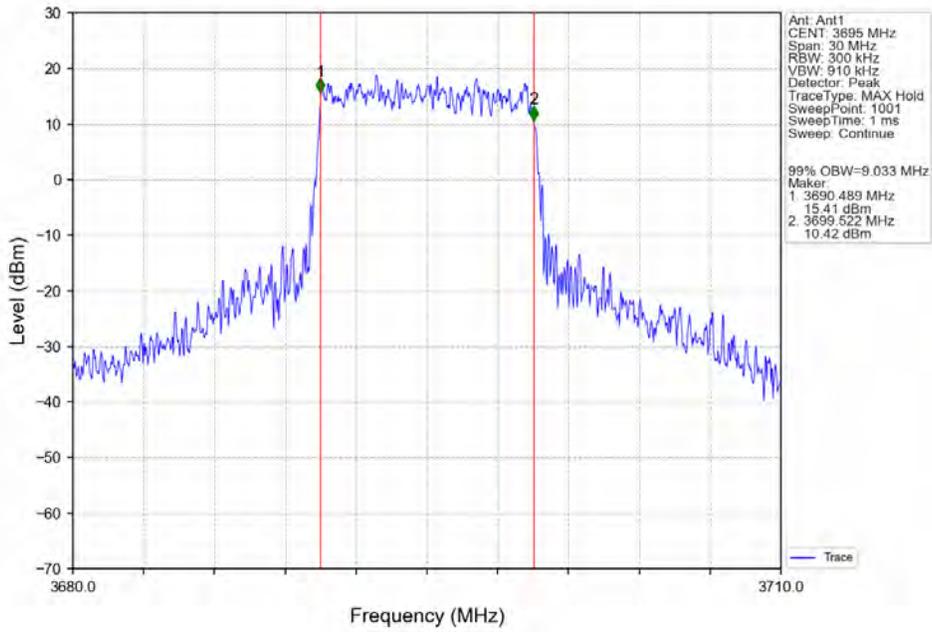
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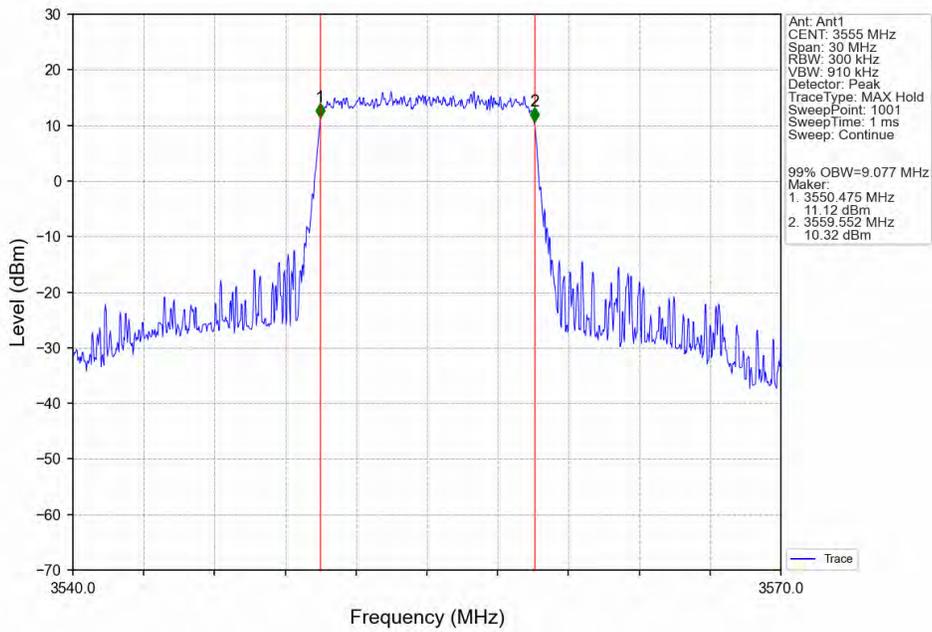
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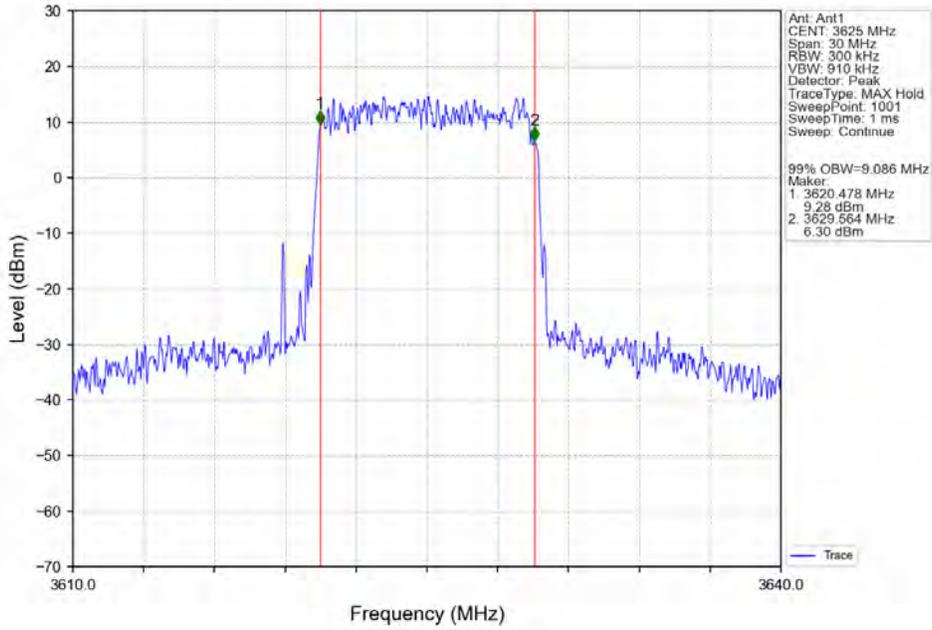
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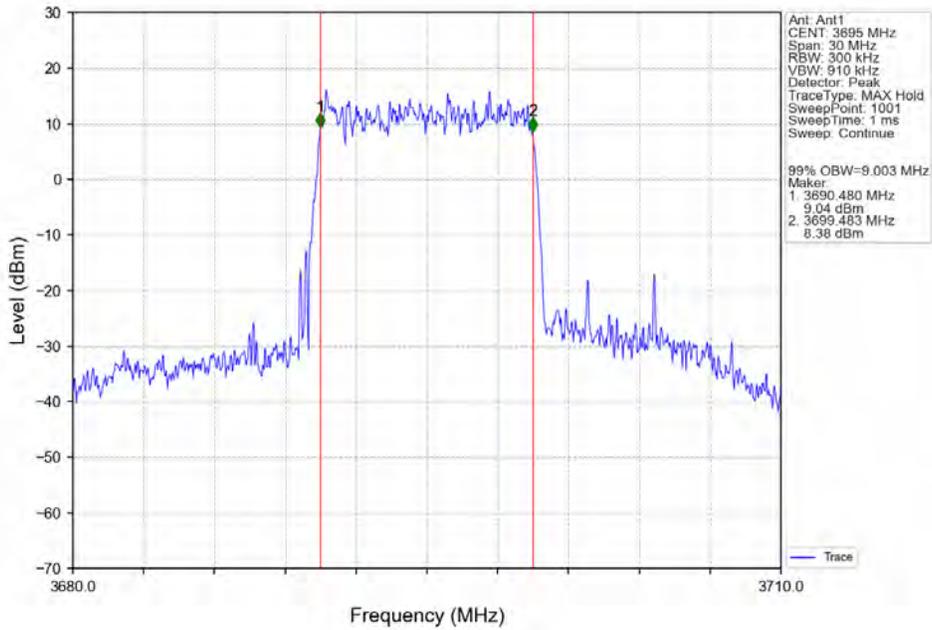
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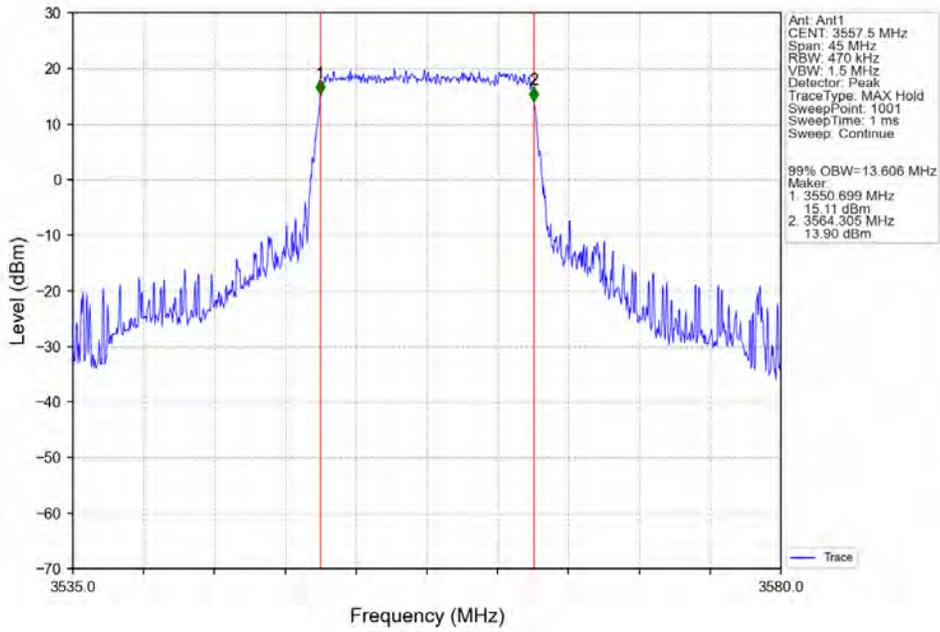
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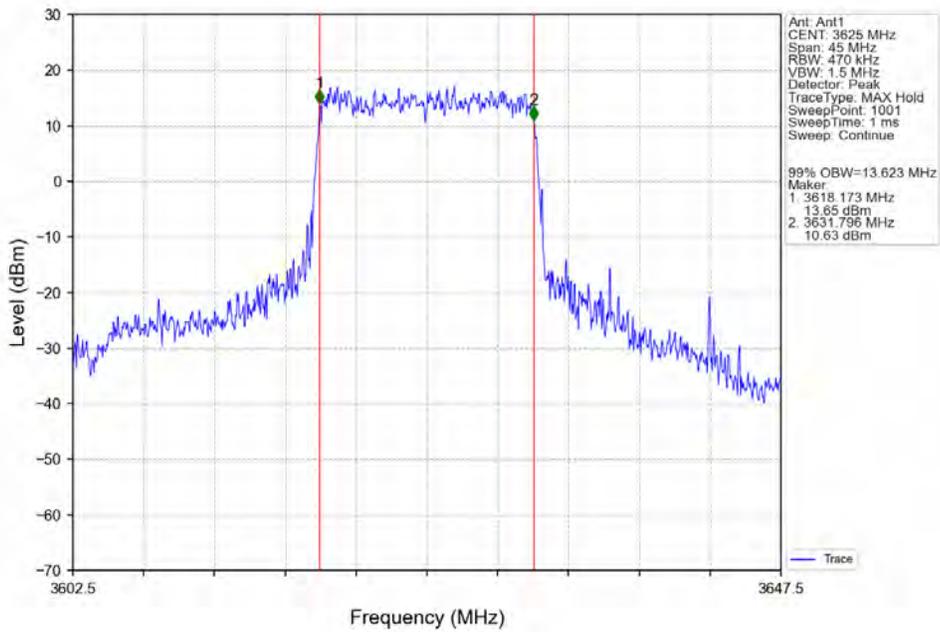
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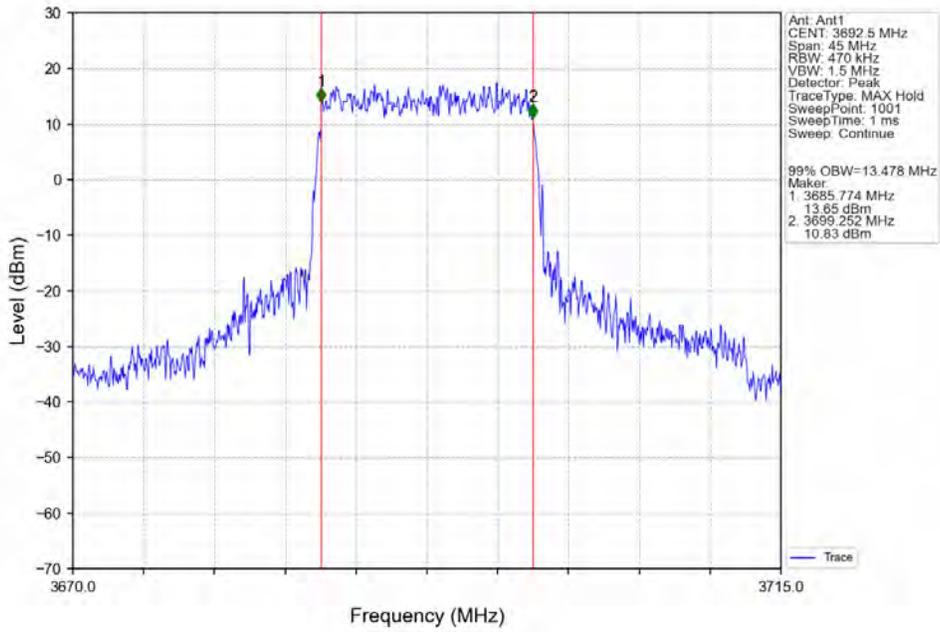
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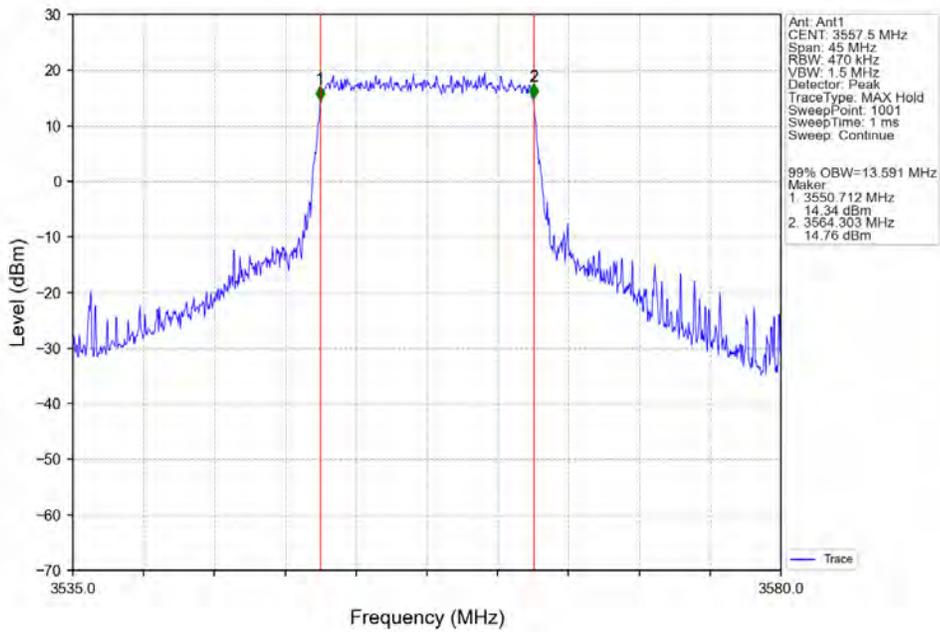
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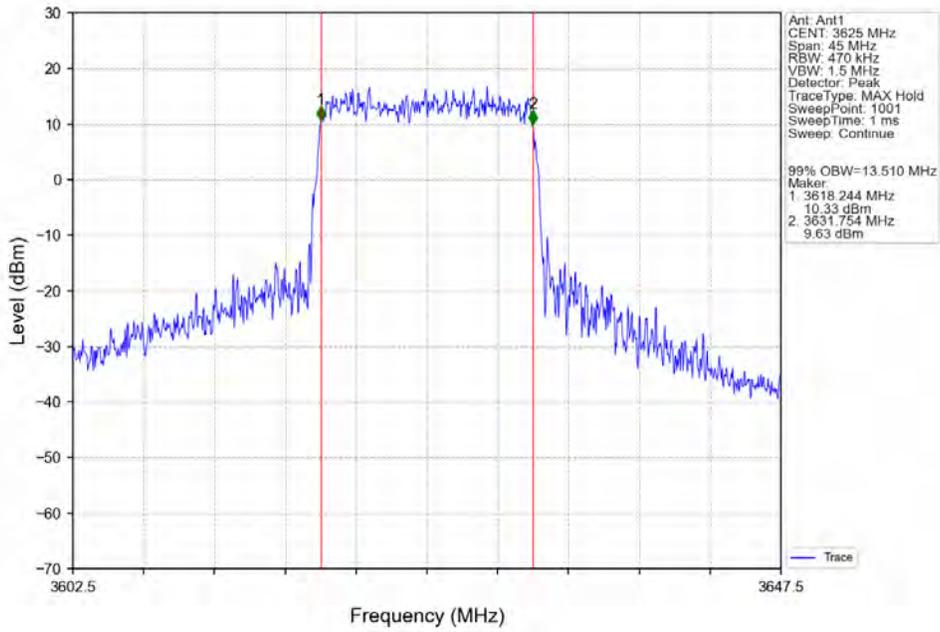
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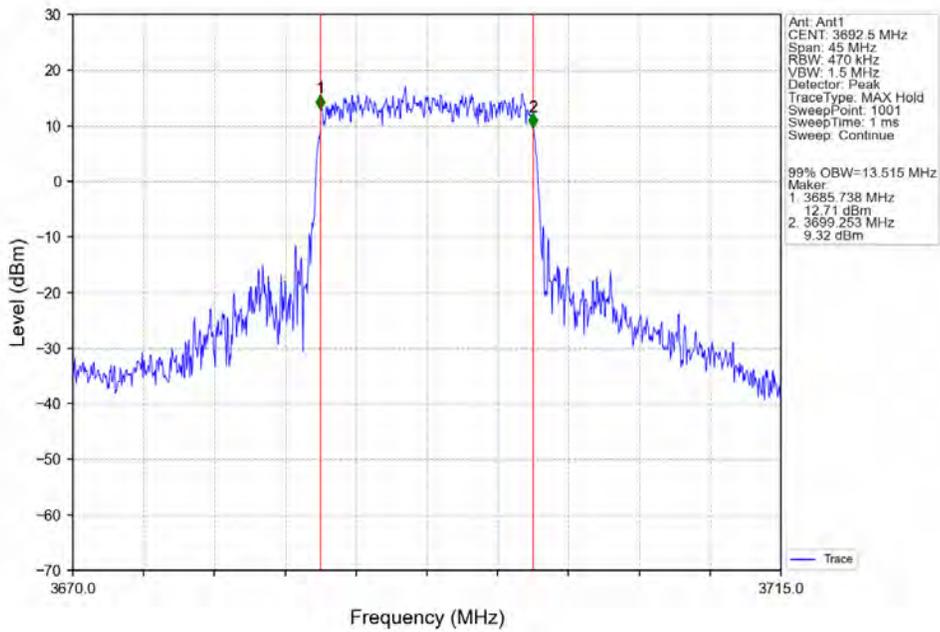
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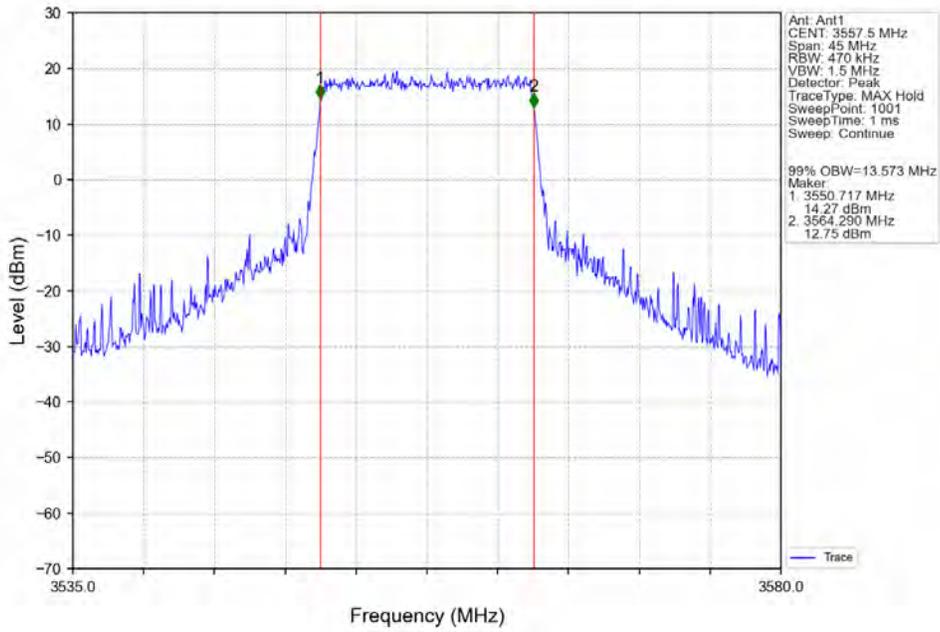
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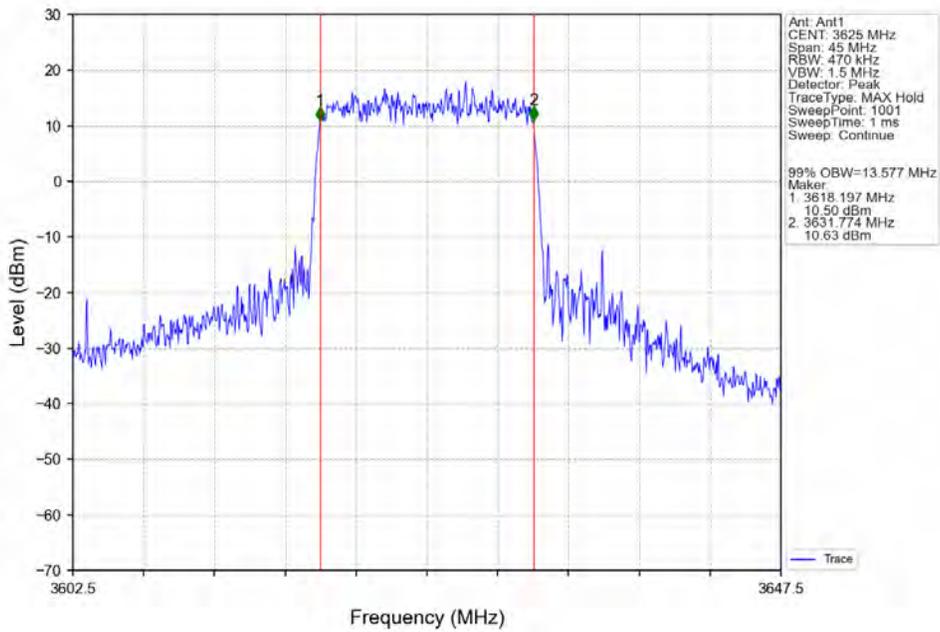
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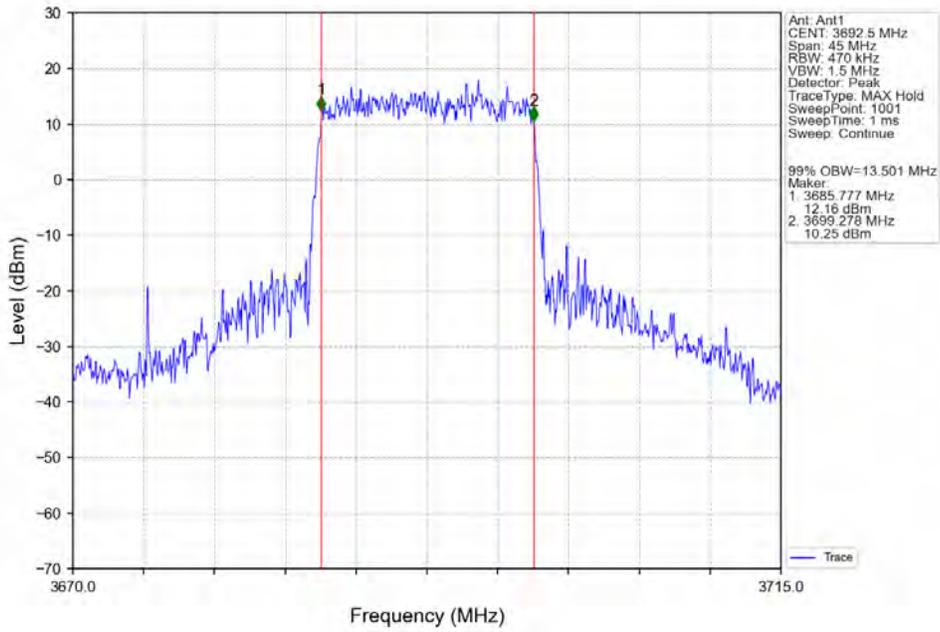
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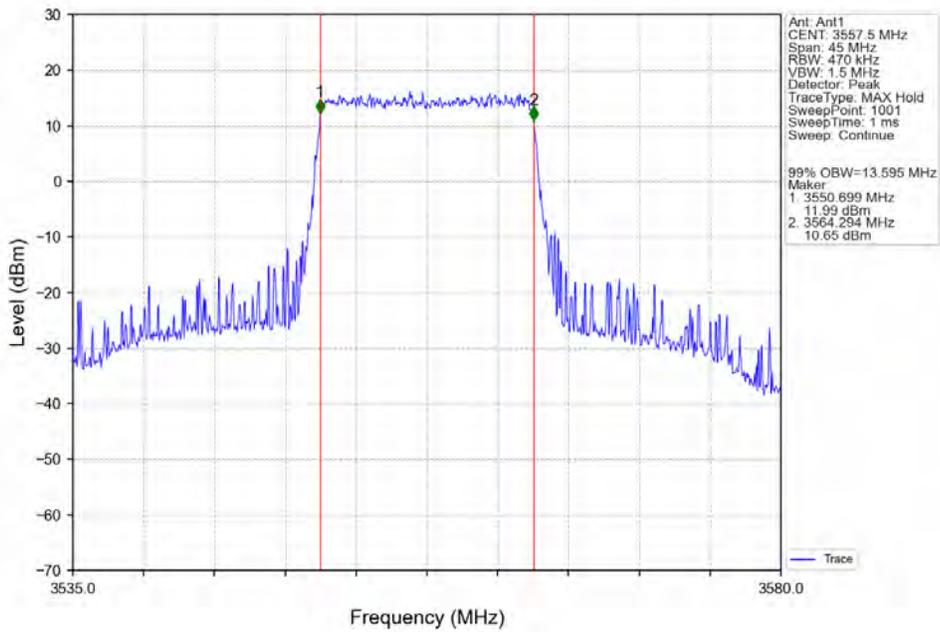
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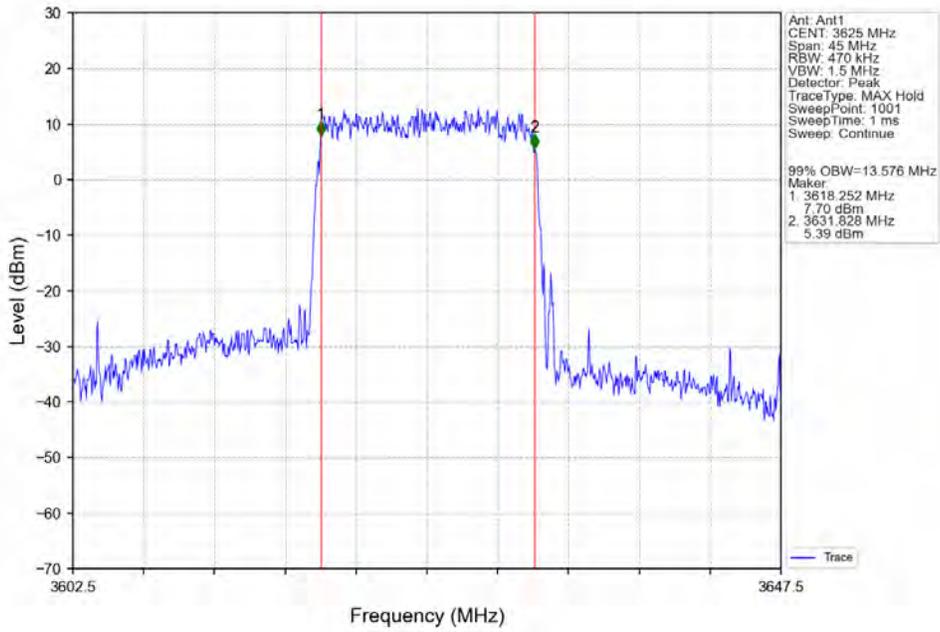
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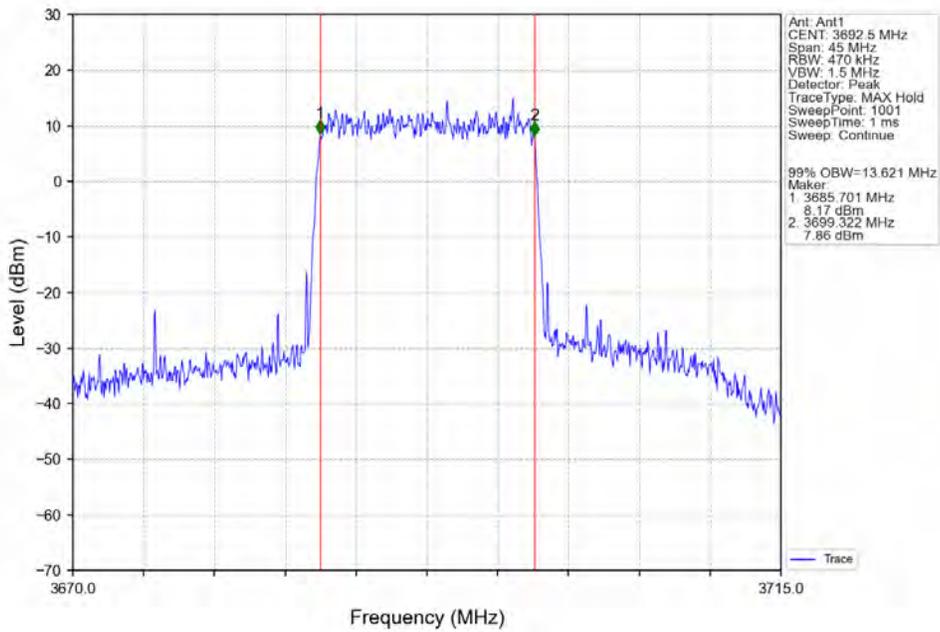
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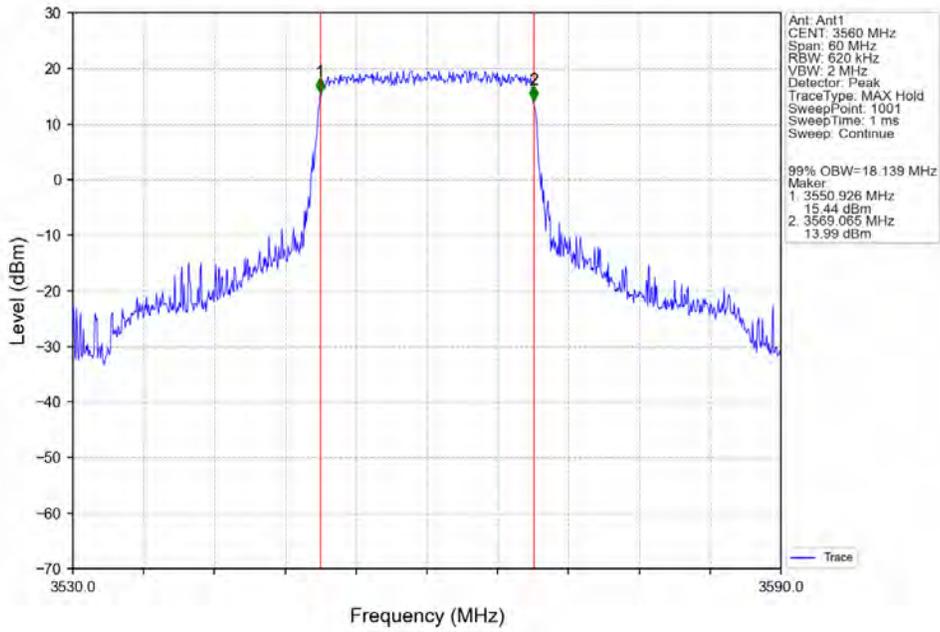
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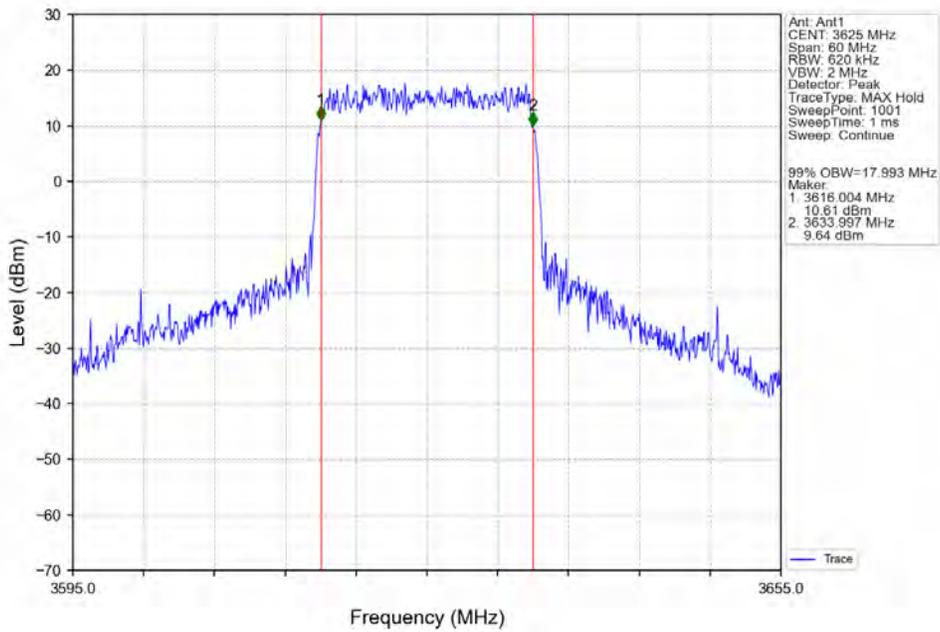
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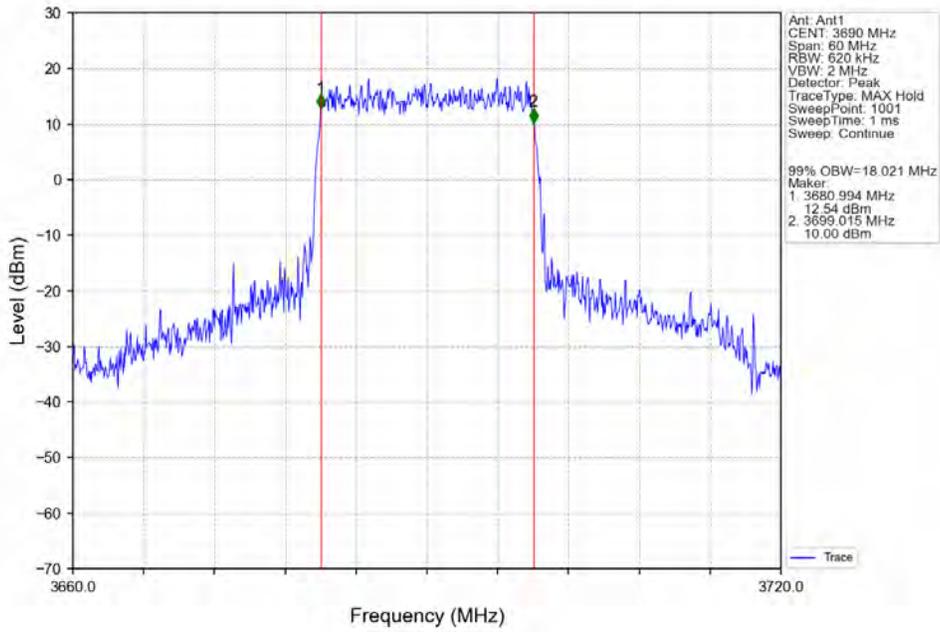
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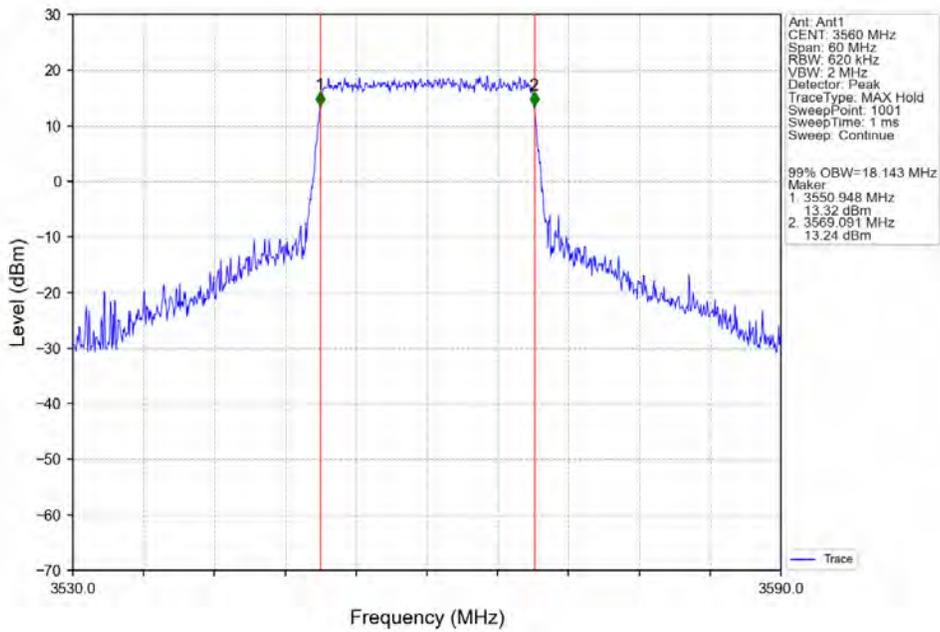
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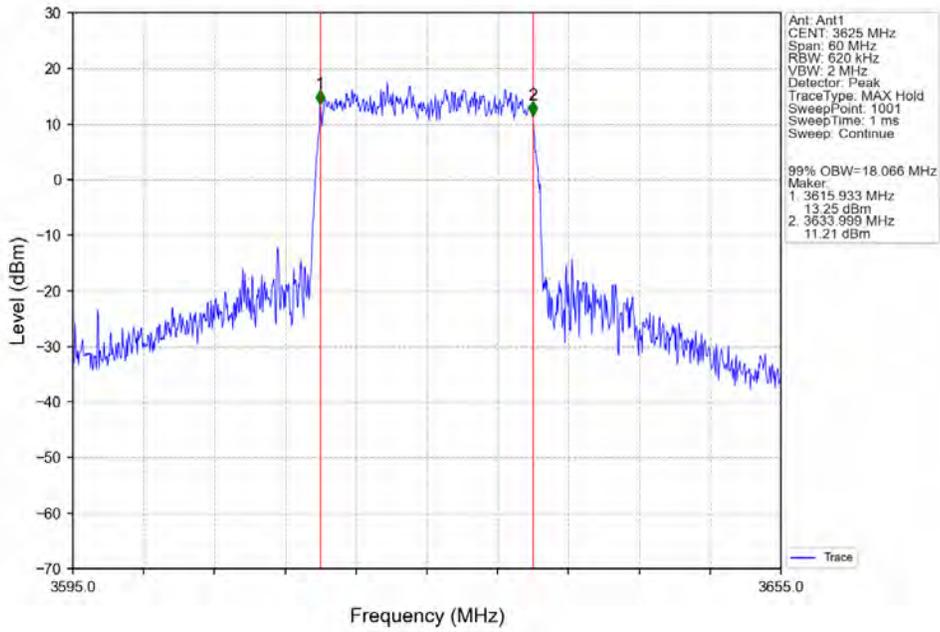
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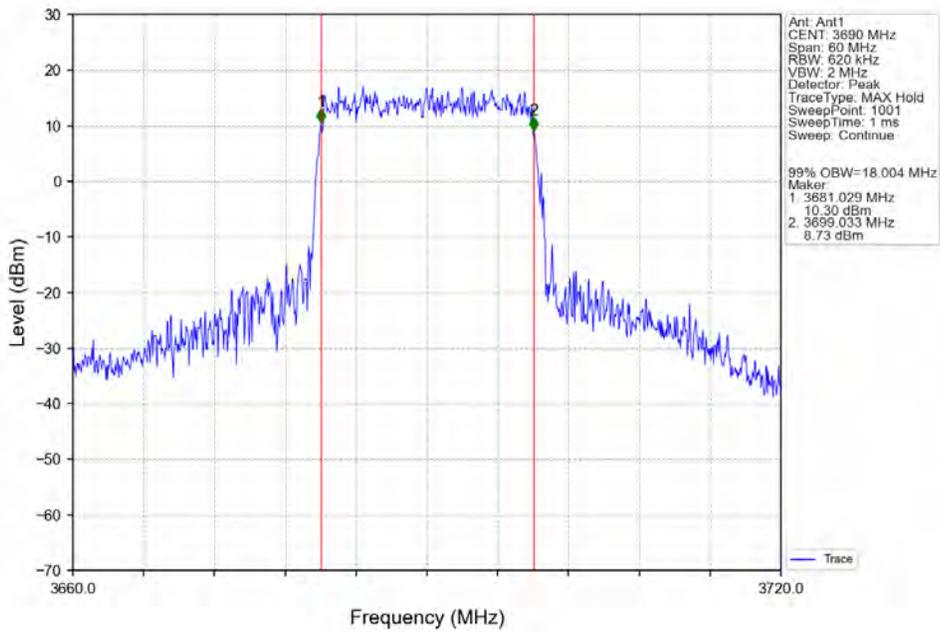
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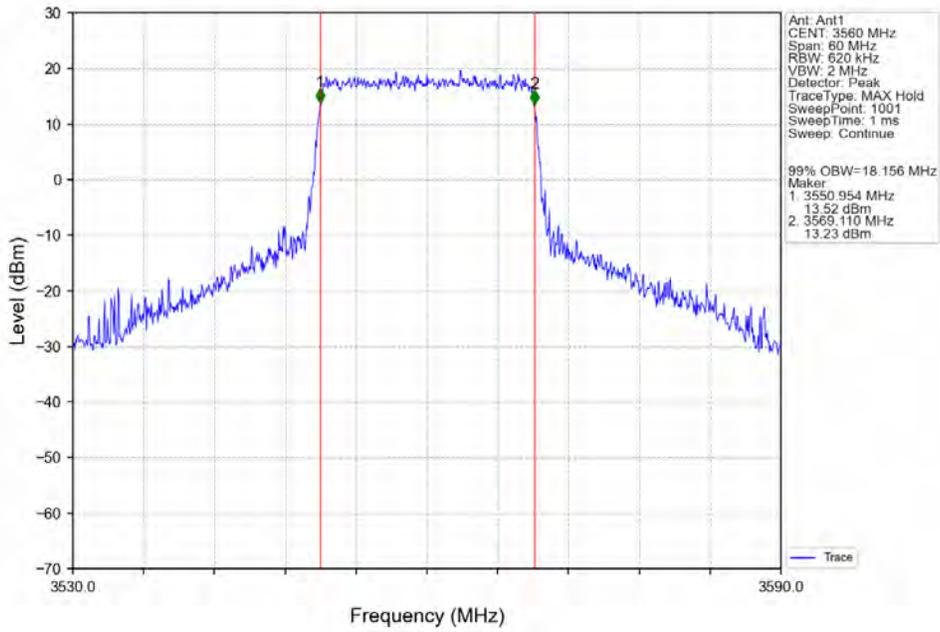
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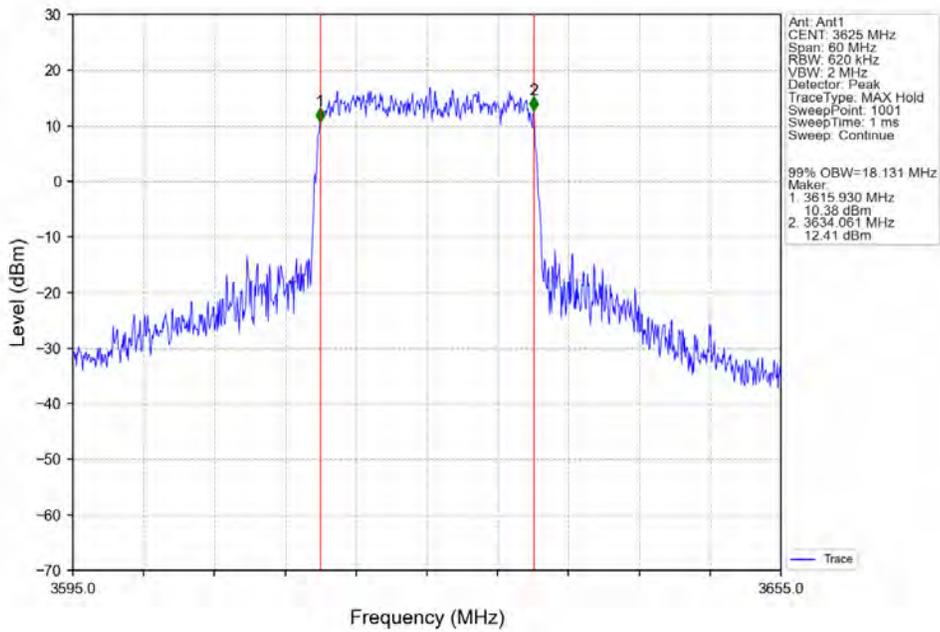
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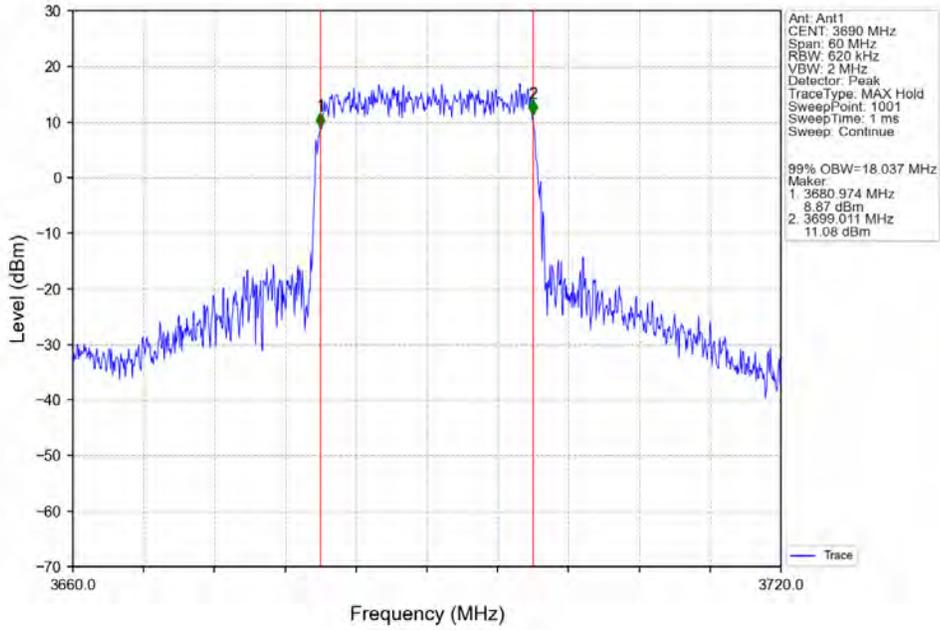
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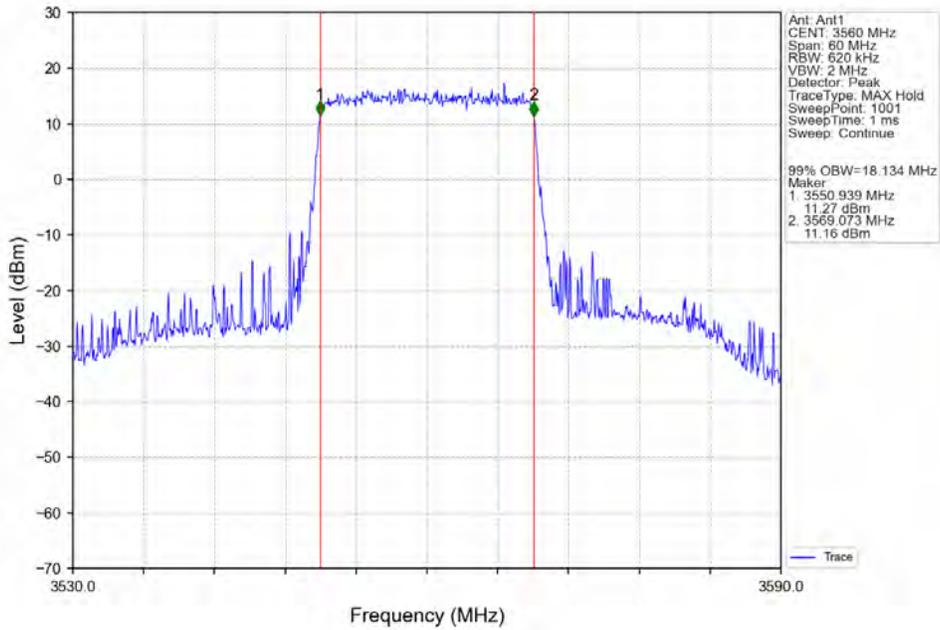
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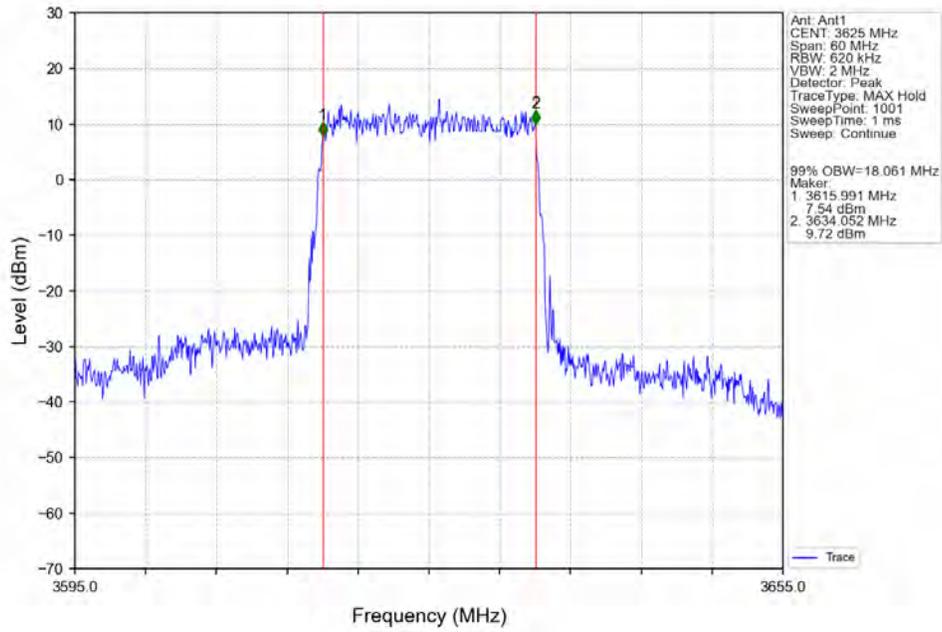
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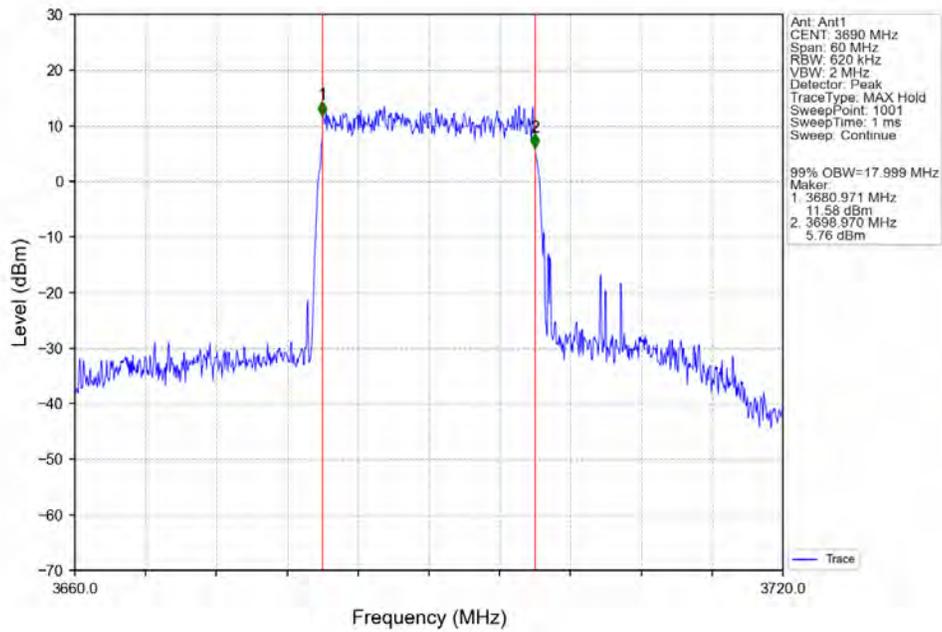
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Band48\_20MHz\_256QAM\_MCH\_3625MHz\_RB\_100\_0\_NTNV

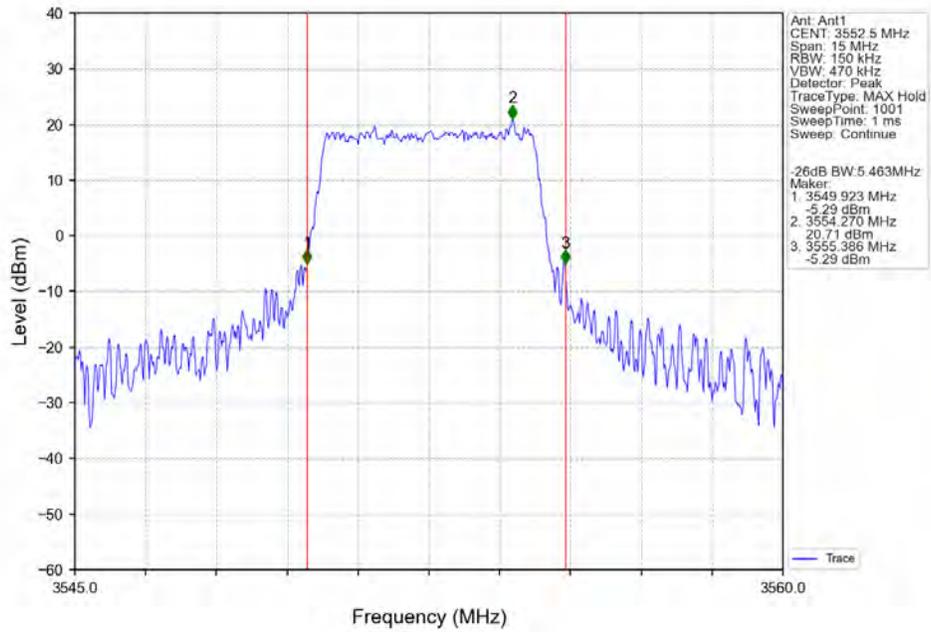


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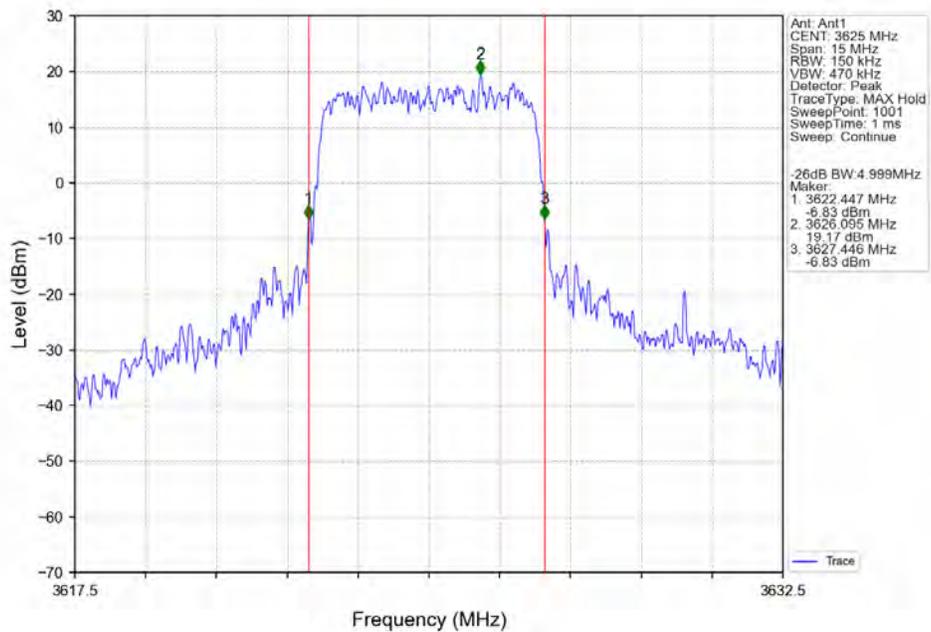


### 4.2.2 Band48\_XDB

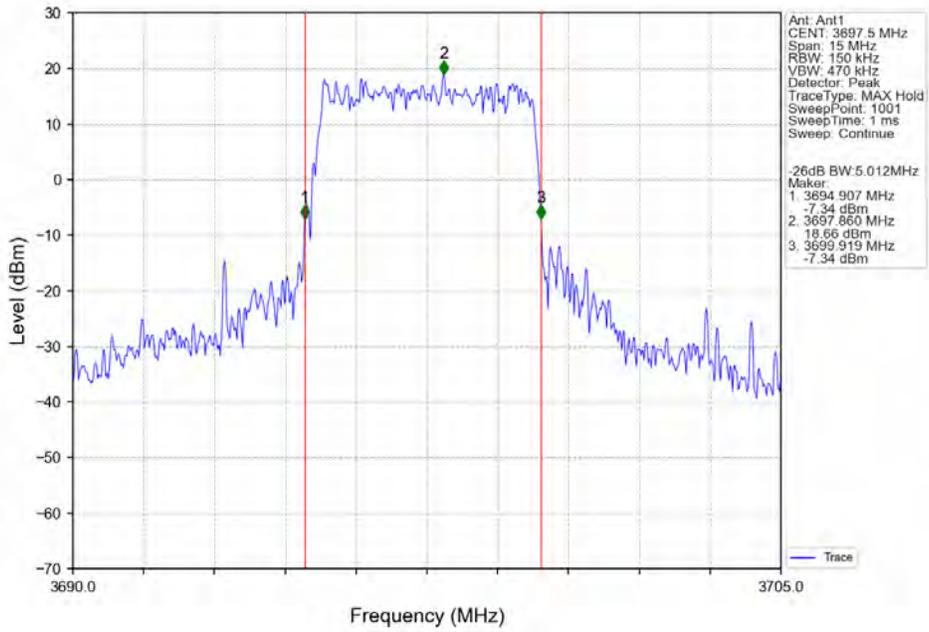
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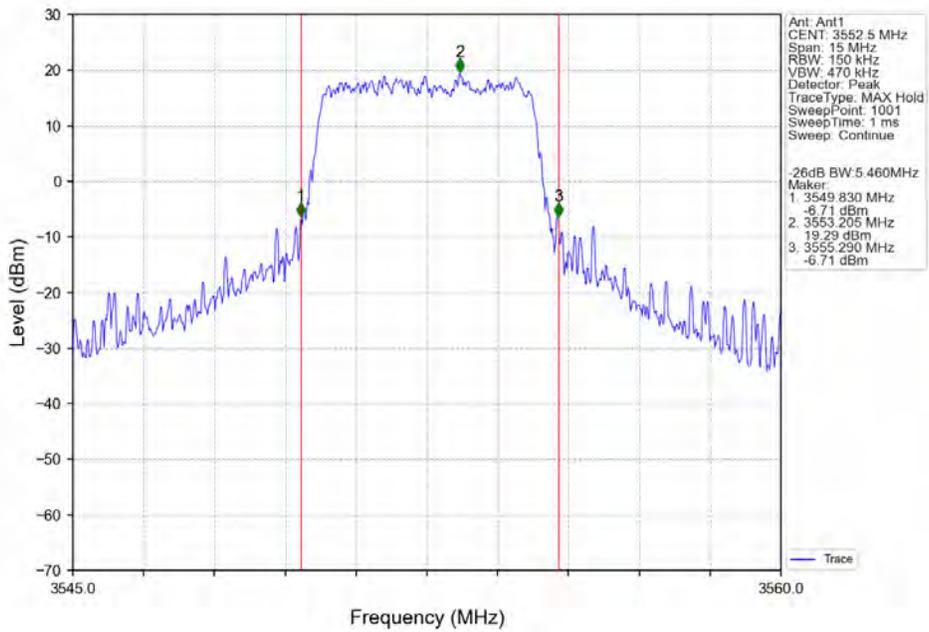
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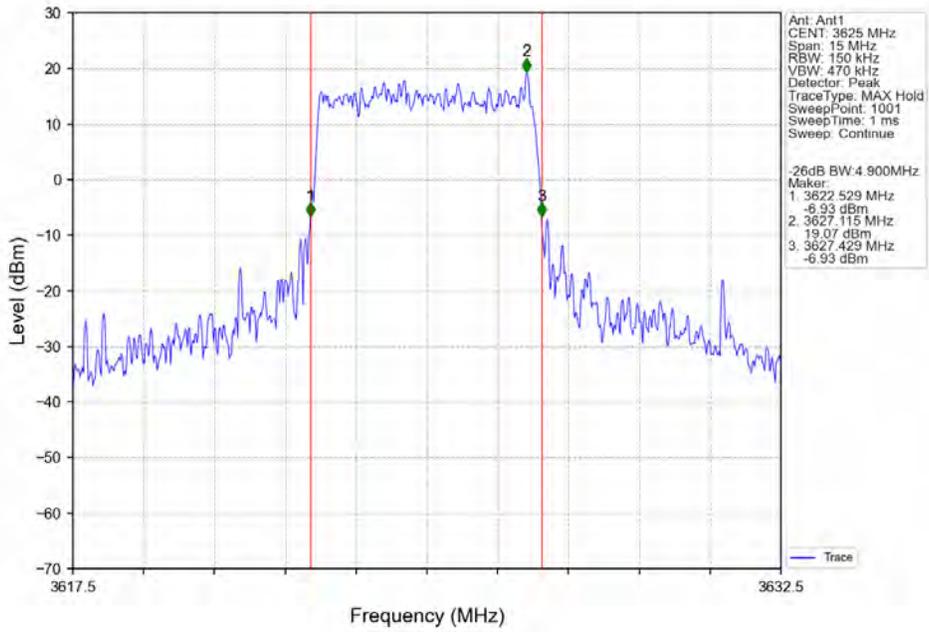
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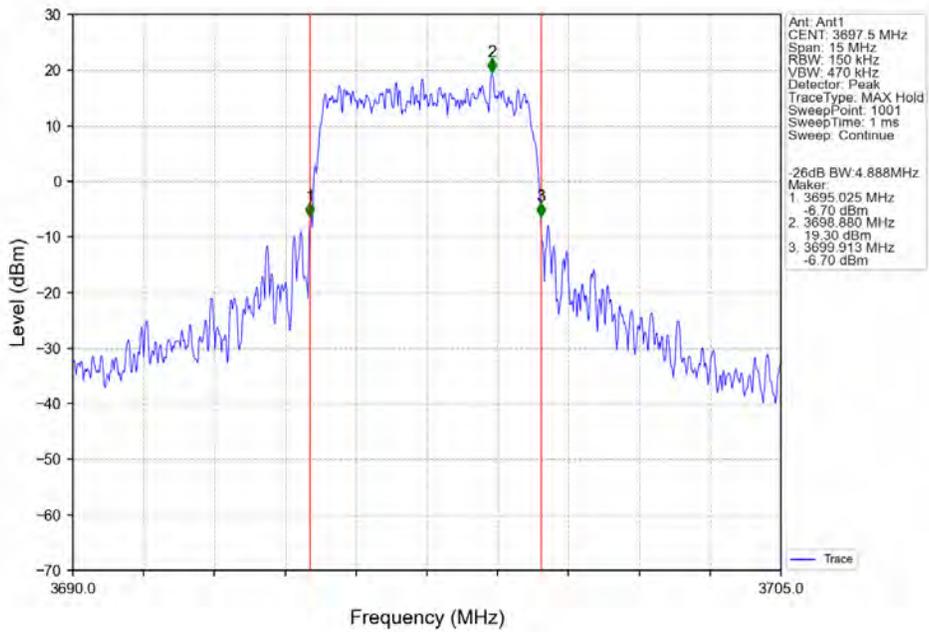
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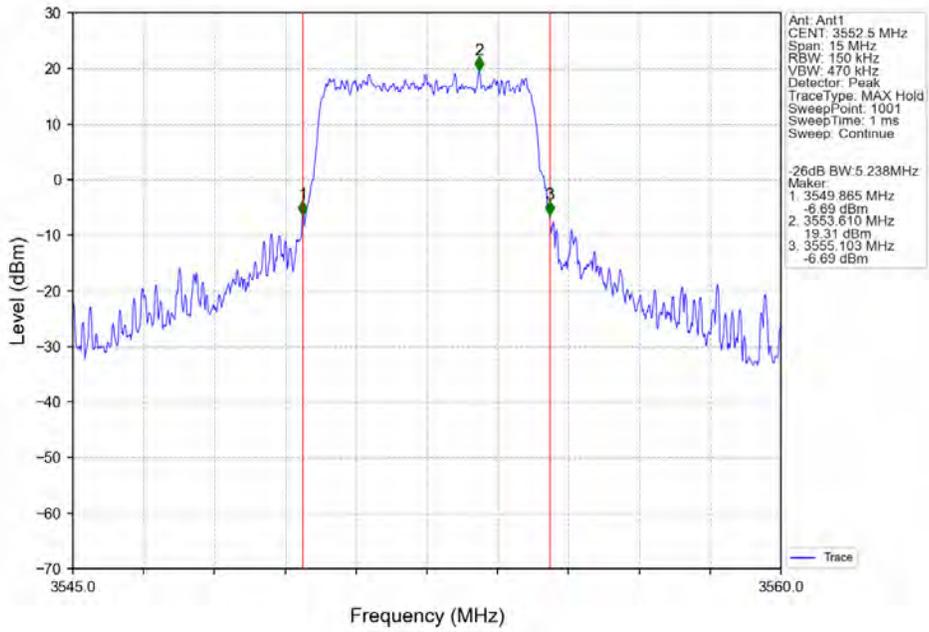
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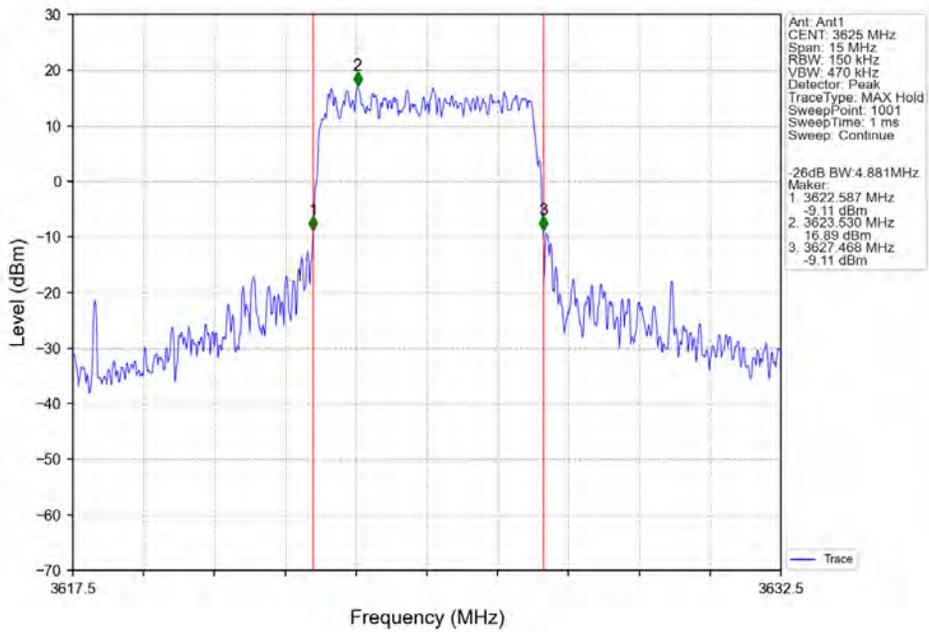
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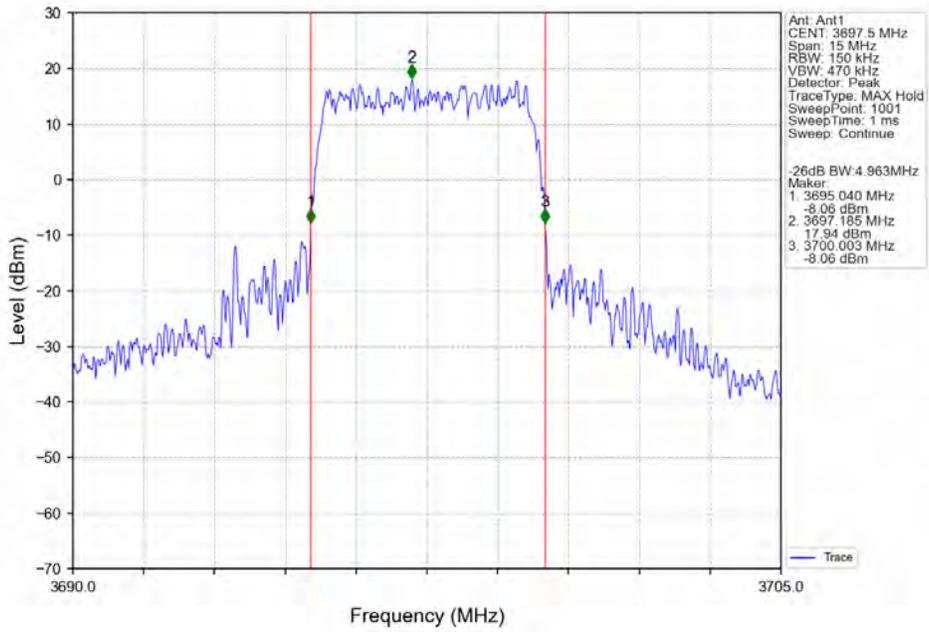
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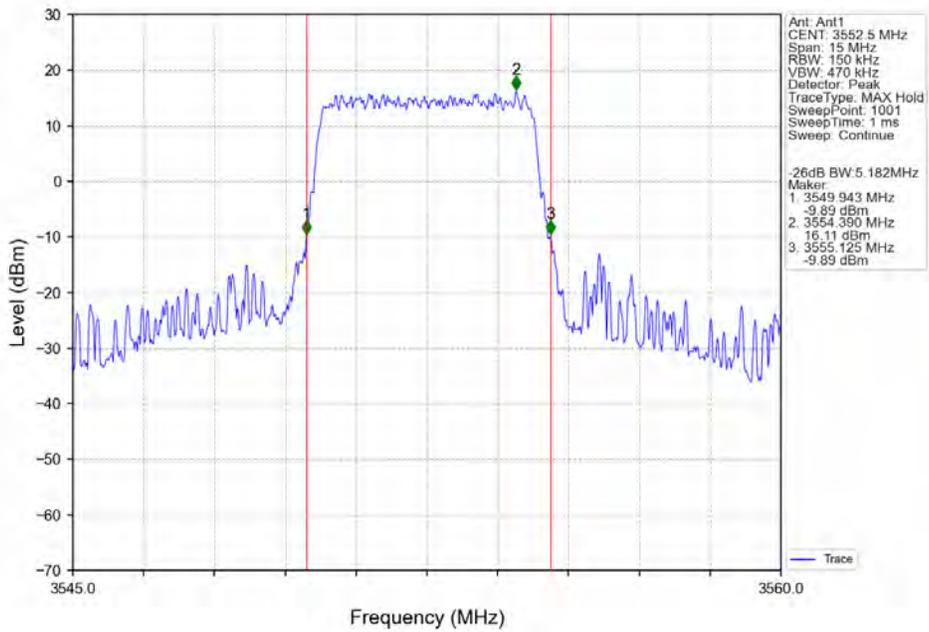
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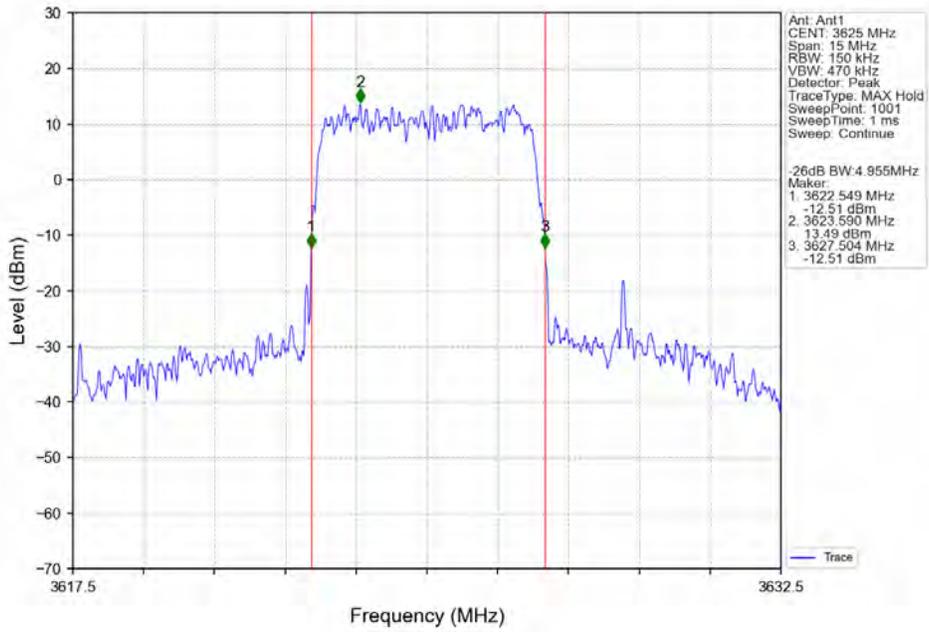
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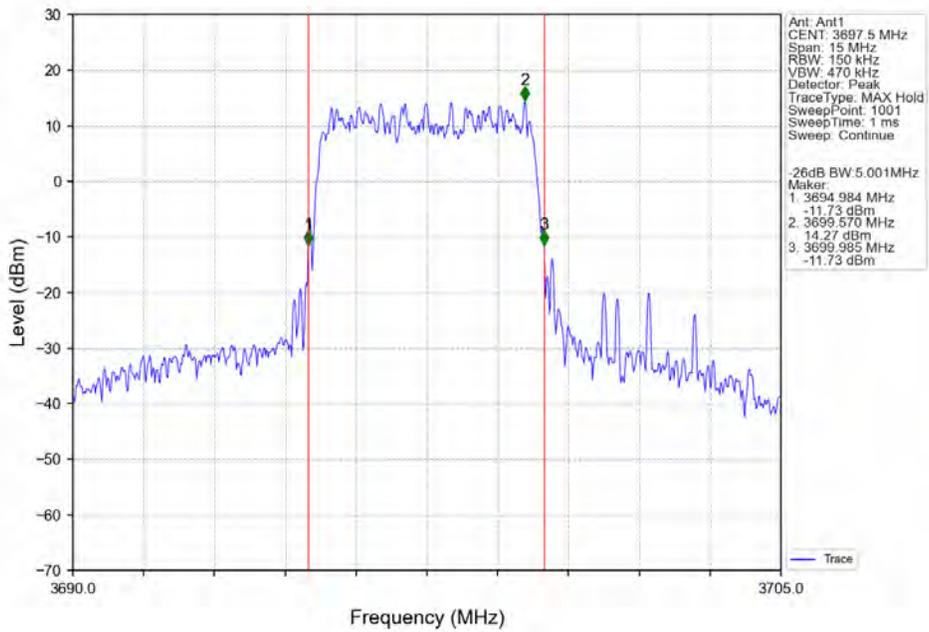
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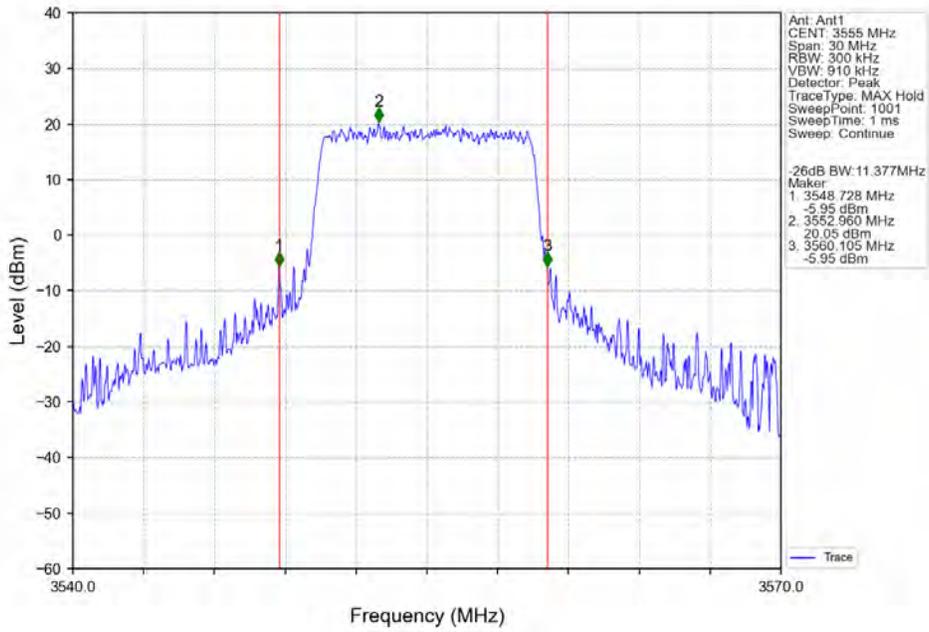
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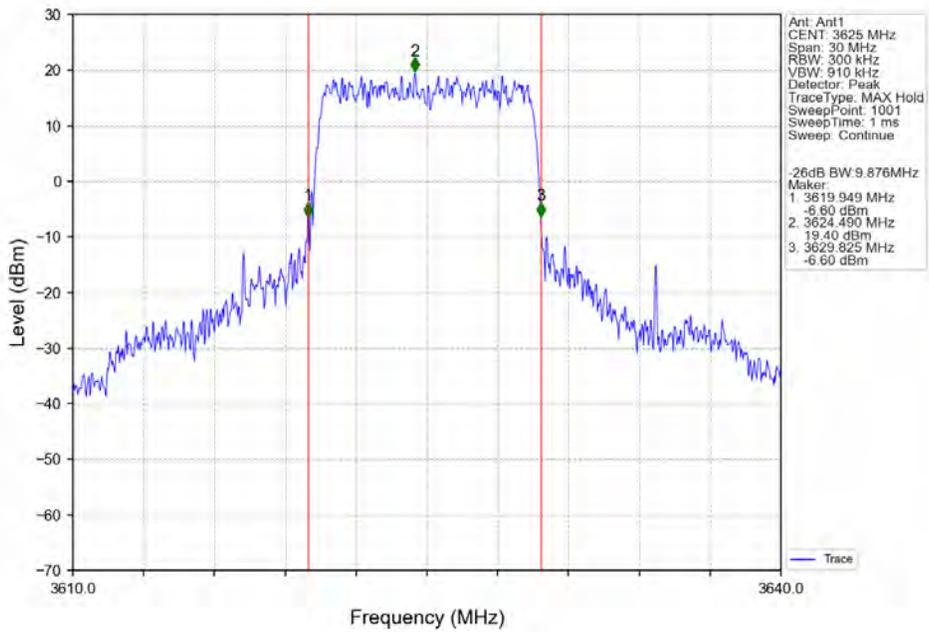
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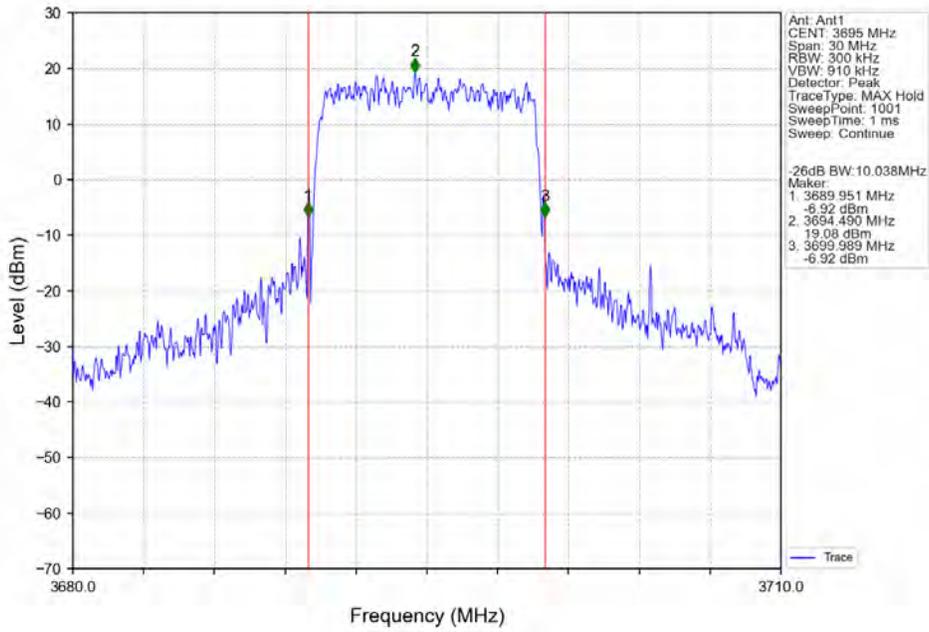
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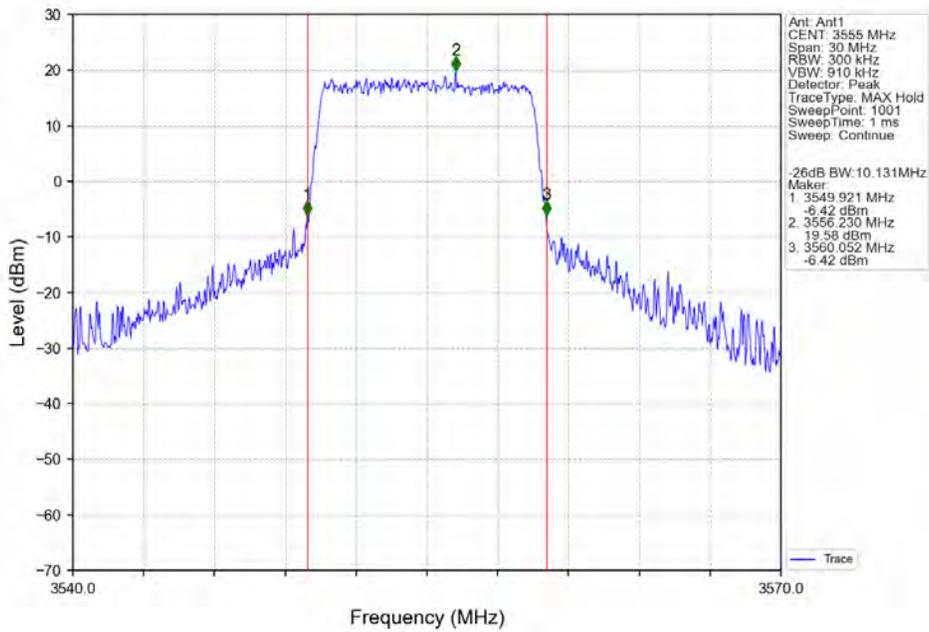
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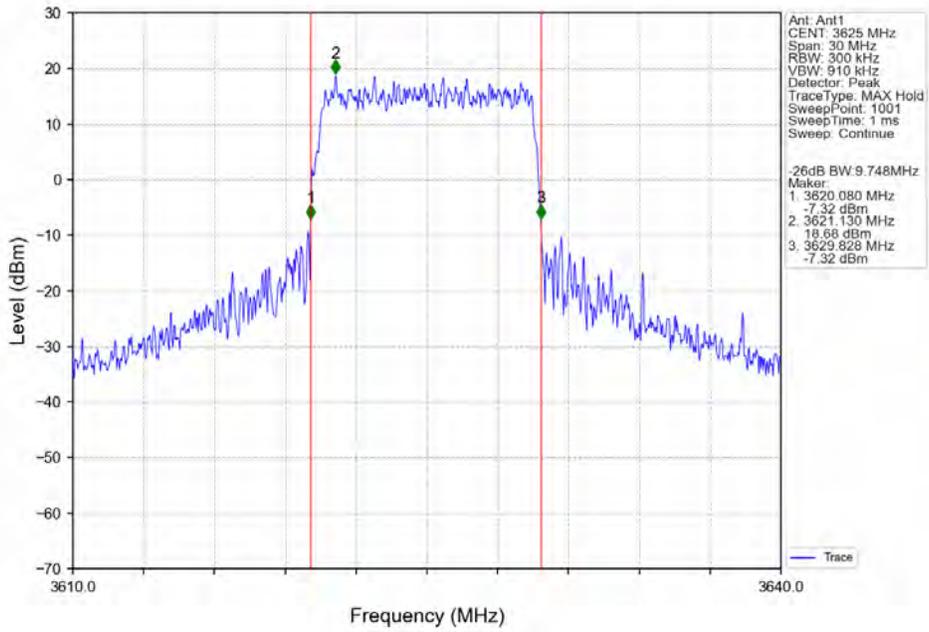
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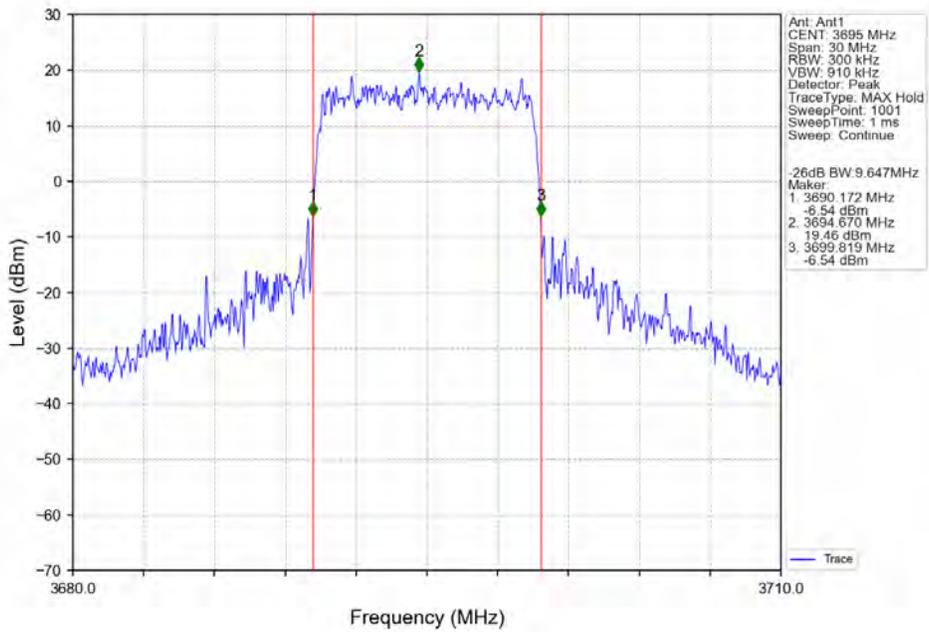
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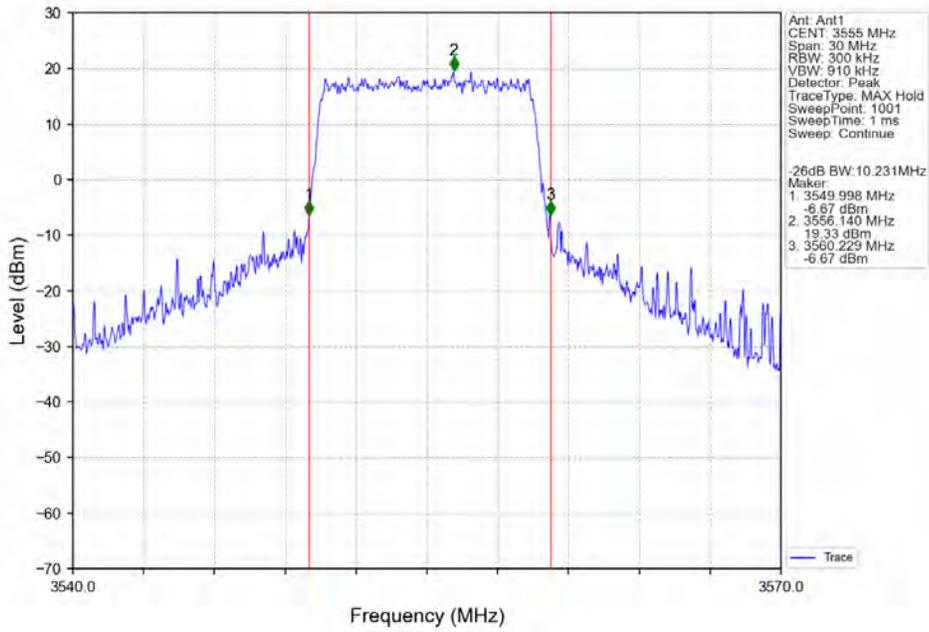
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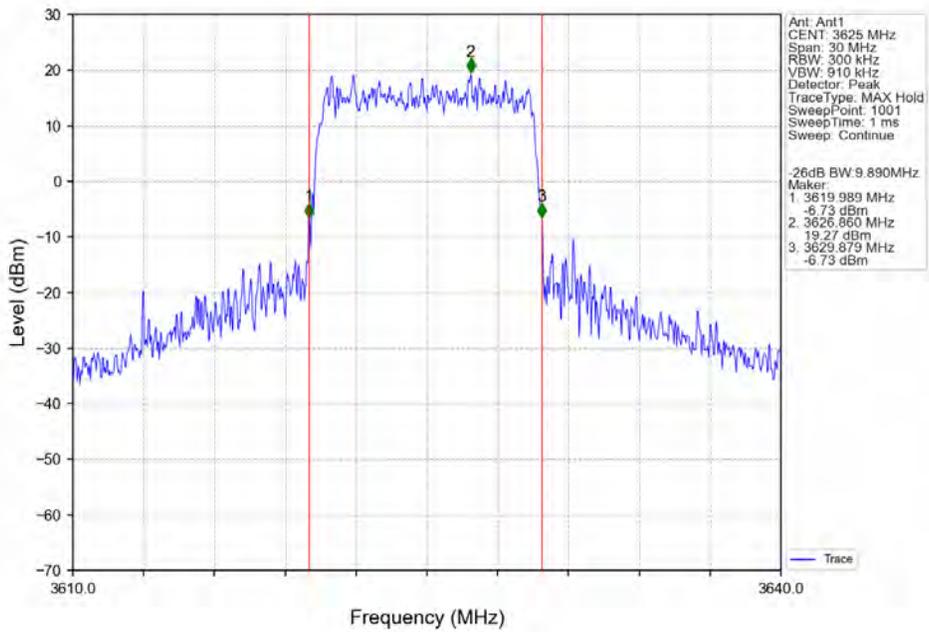
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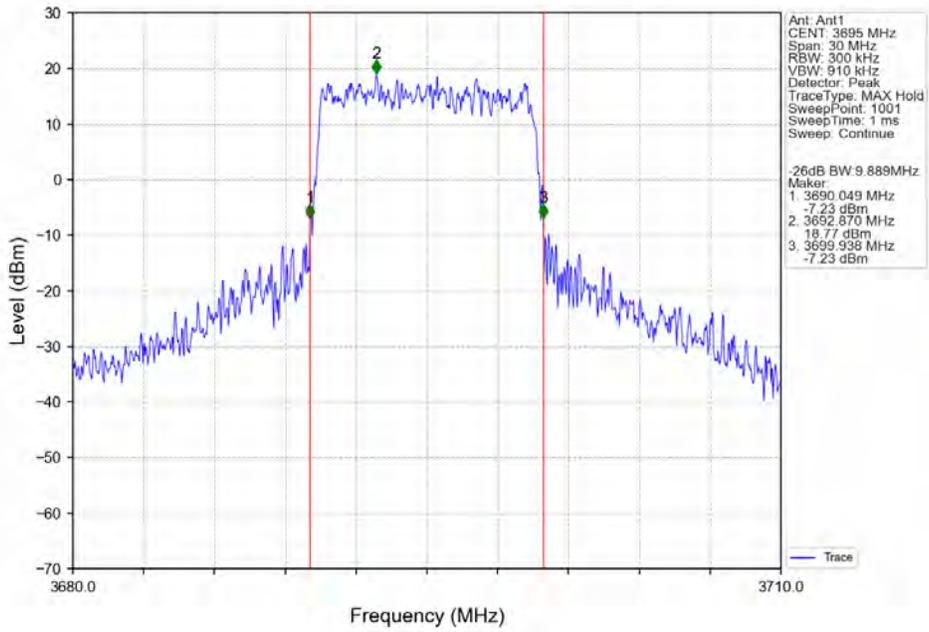
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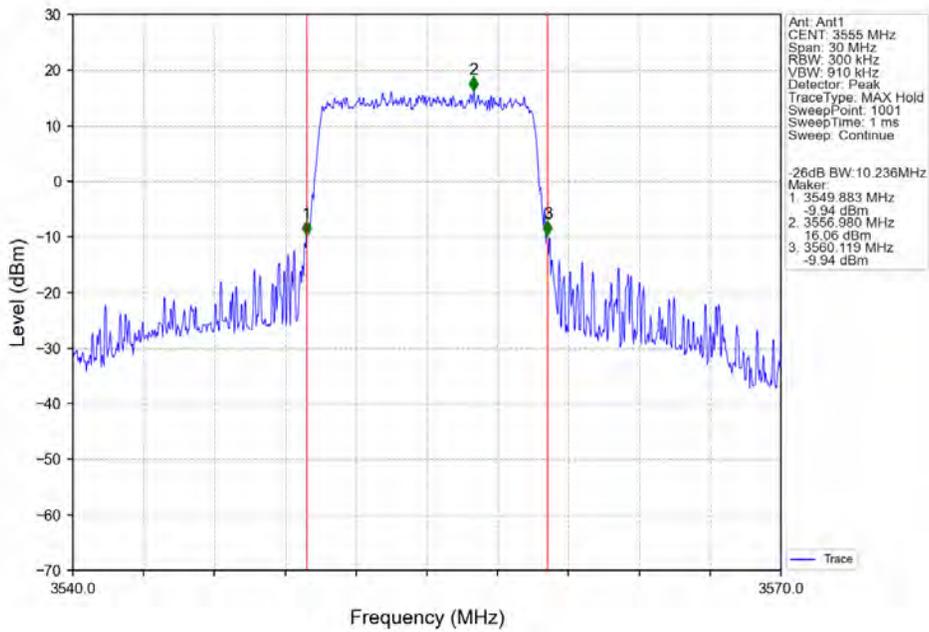
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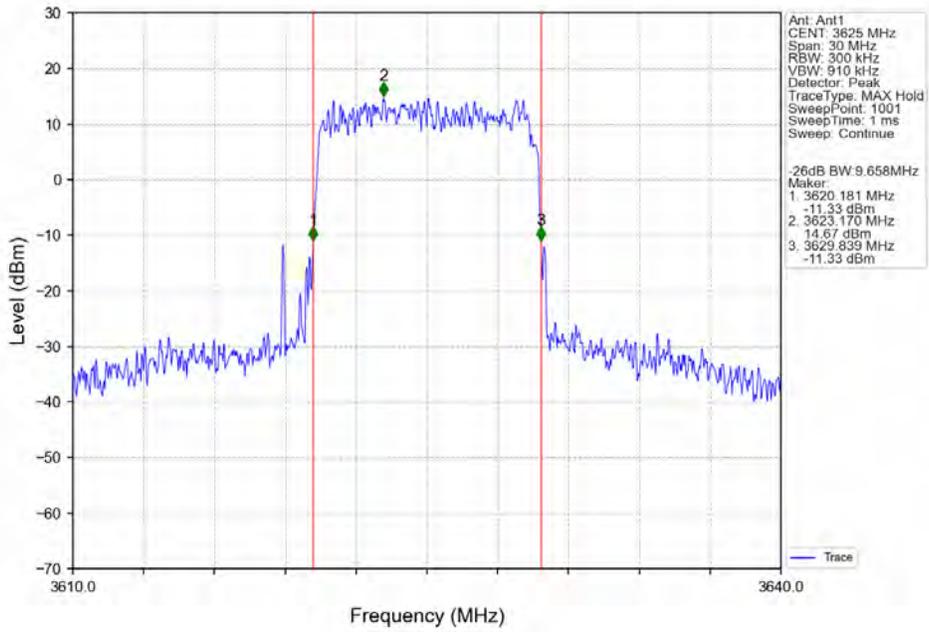
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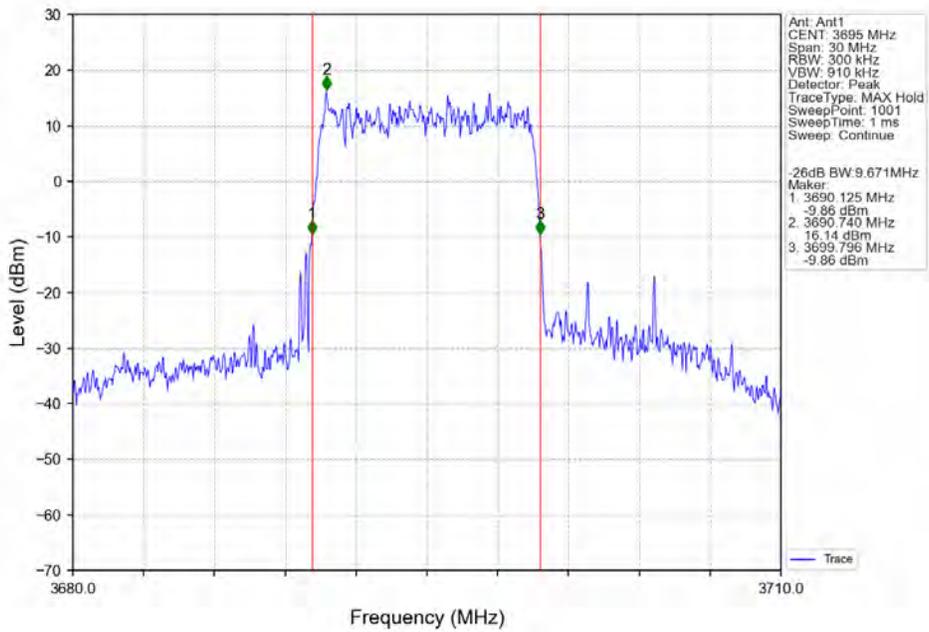
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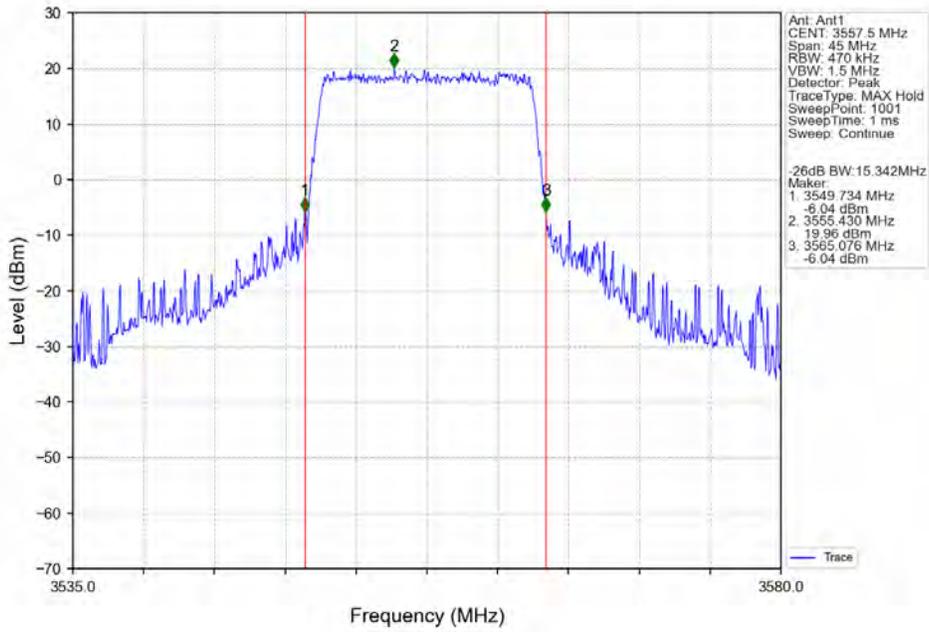
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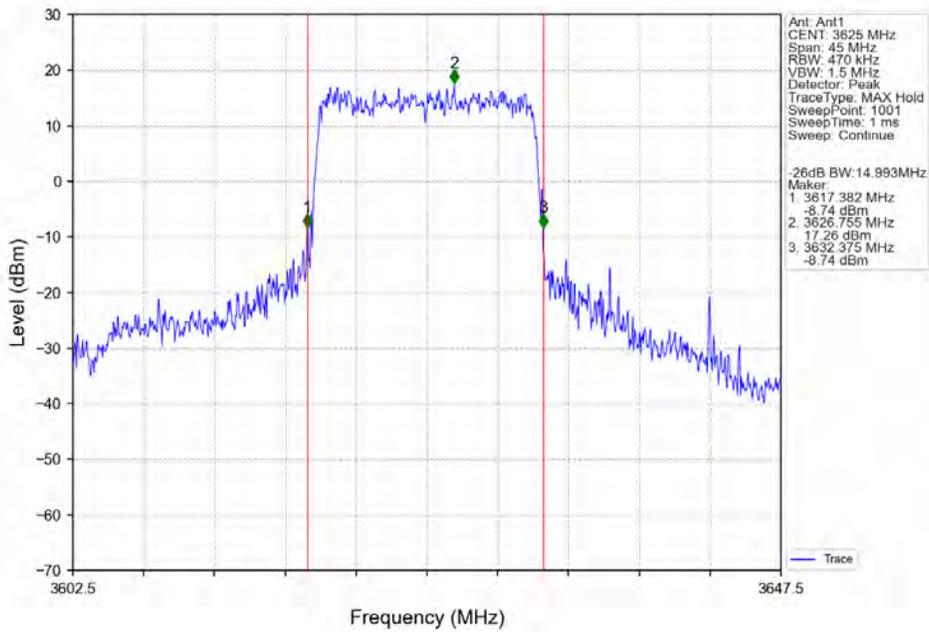
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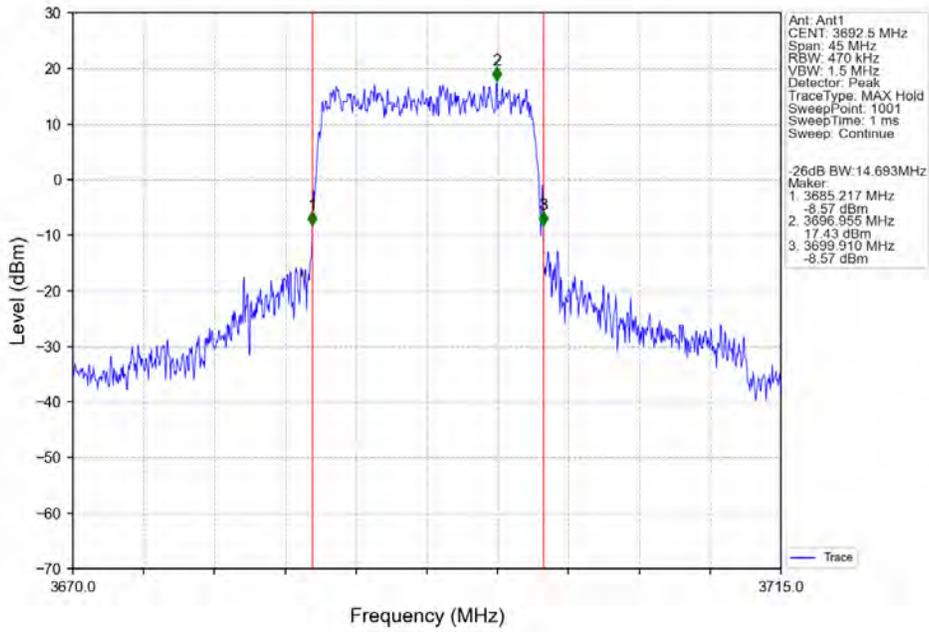
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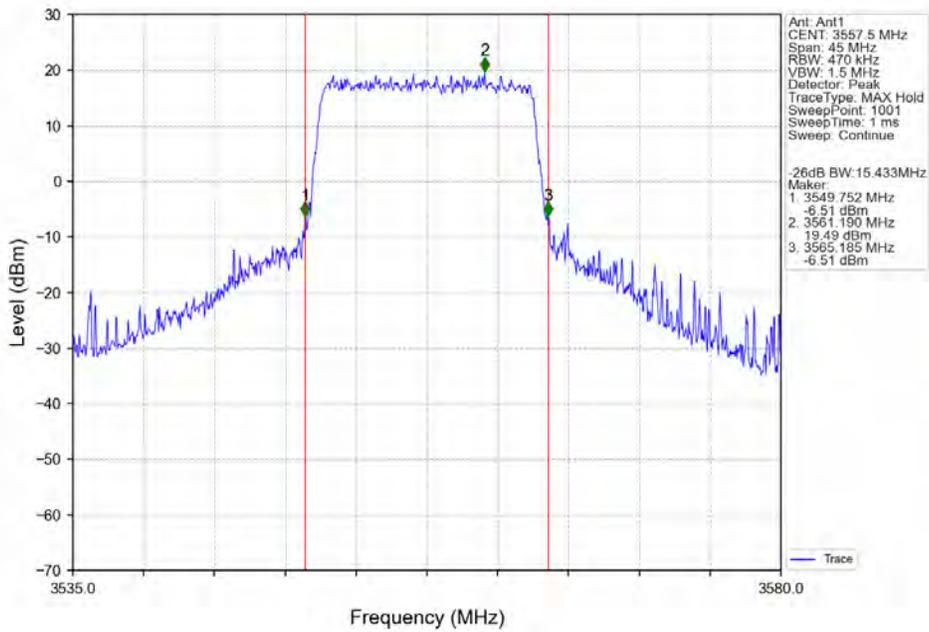
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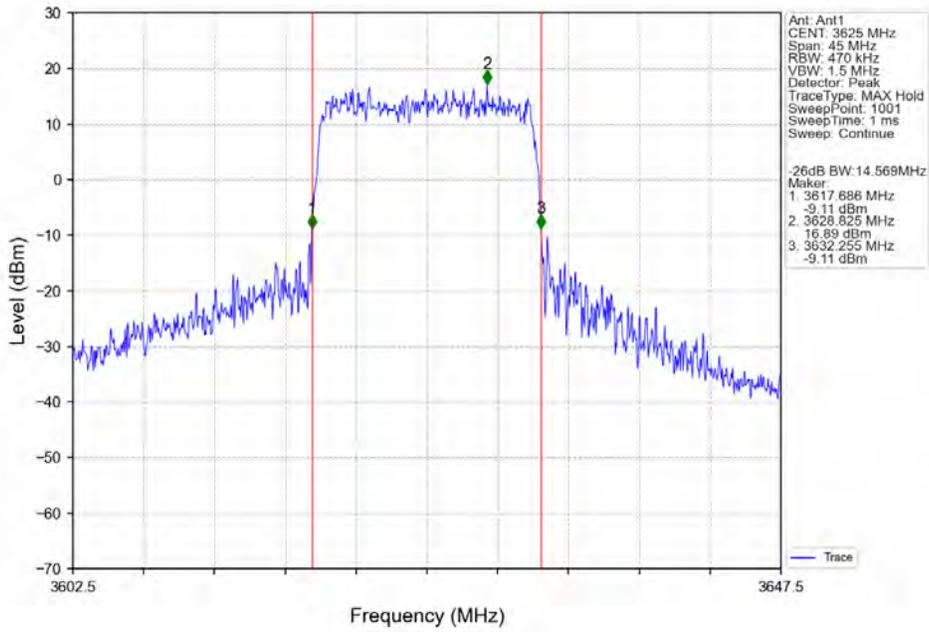
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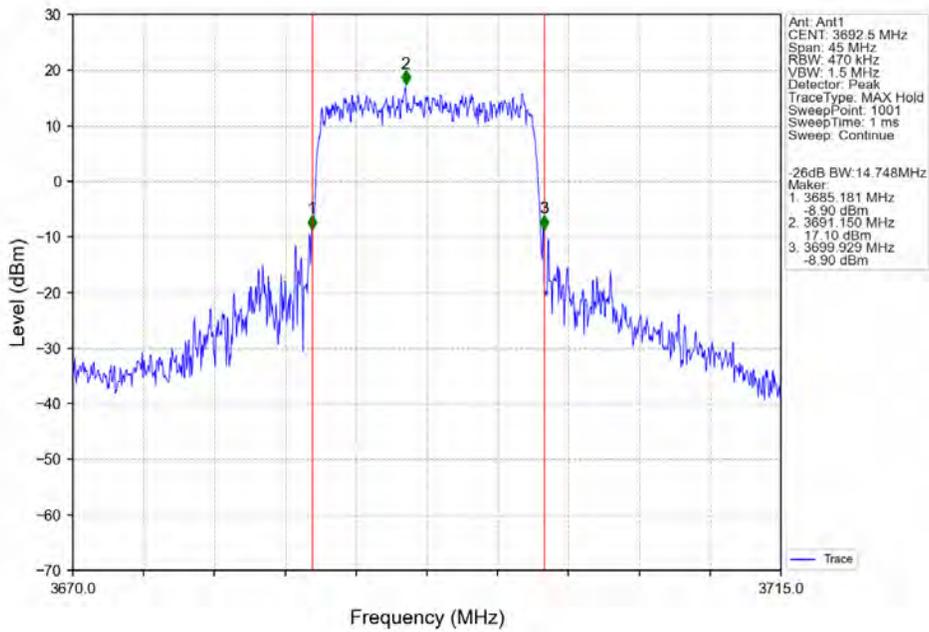
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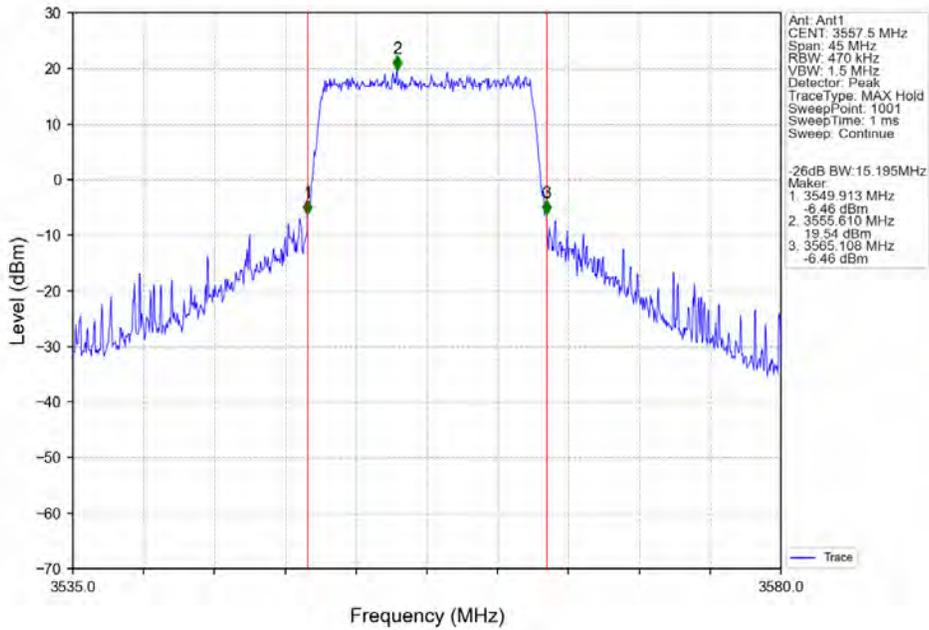
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Band48\_15MHz\_16QAM\_HCH\_3692.5MHz\_RB\_75\_0\_NTNV



Band48\_15MHz\_64QAM\_LCH\_3557.5MHz\_RB\_75\_0\_NTNV



Band48\_15MHz\_64QAM\_MCH\_3625MHz\_RB\_75\_0\_NTNV

