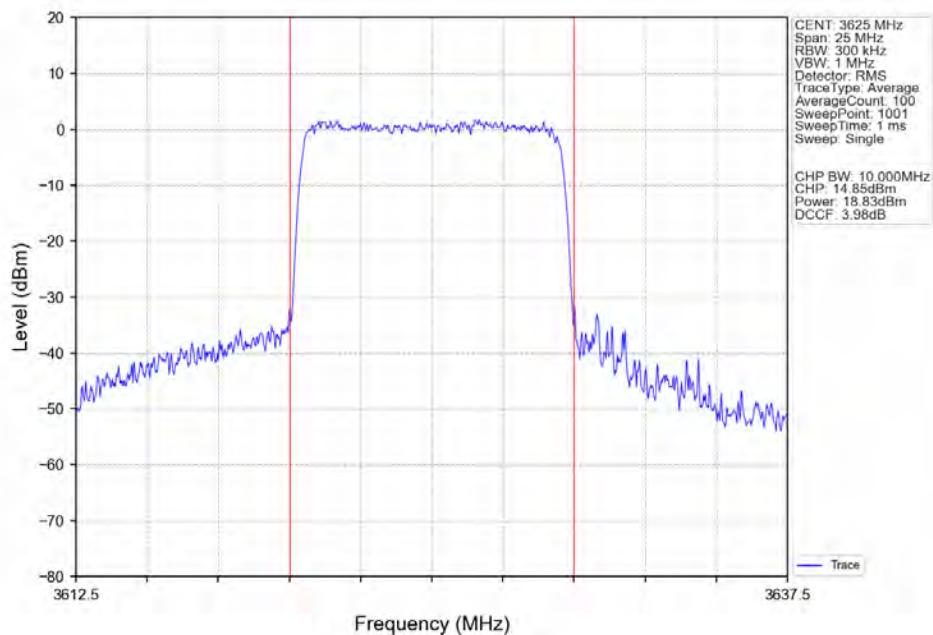
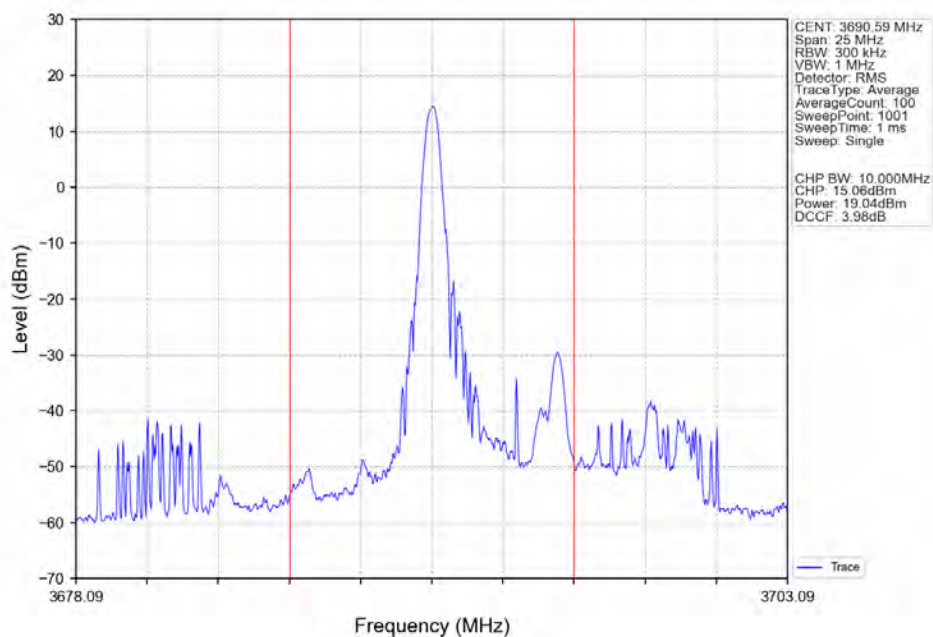


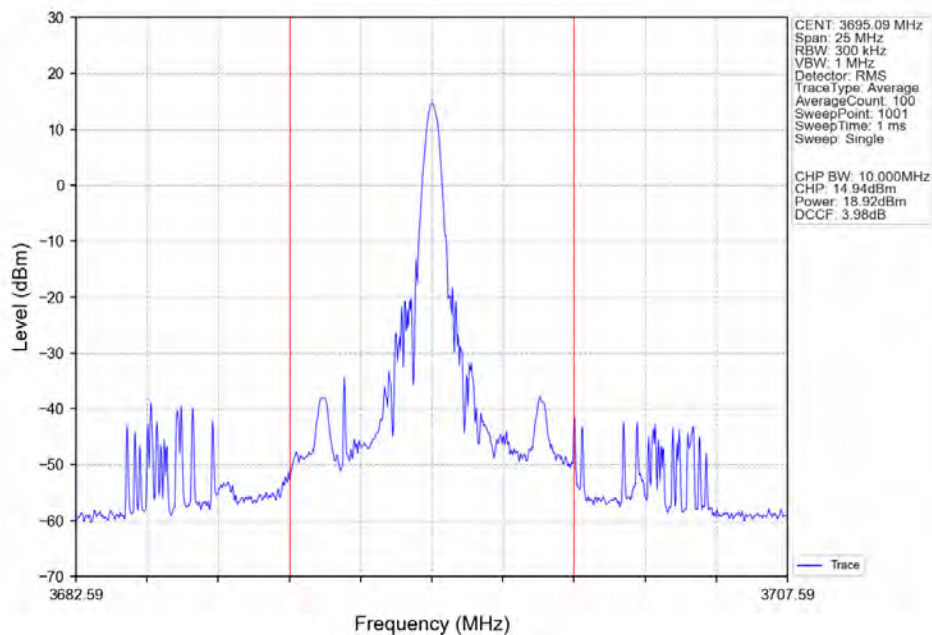
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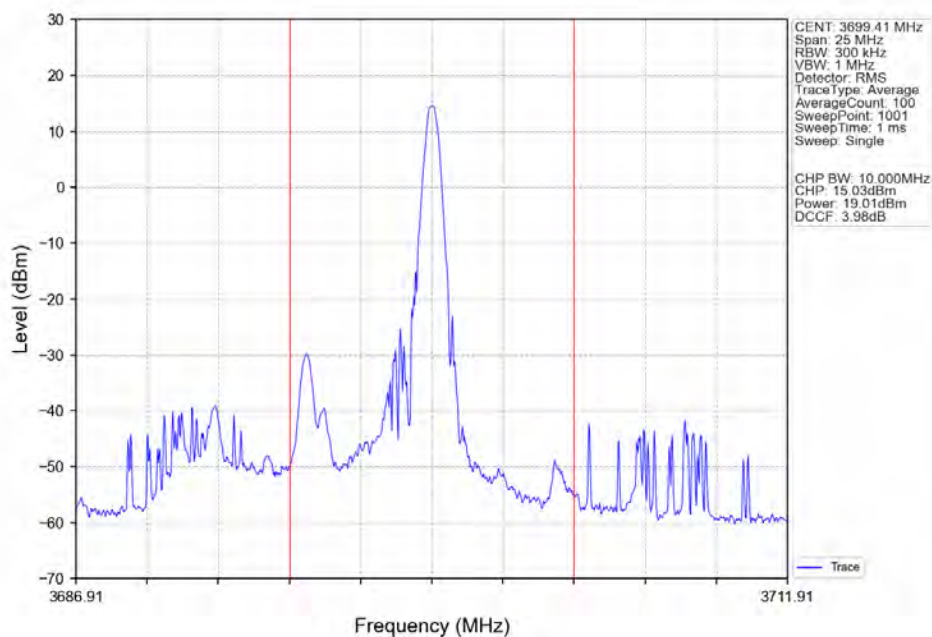
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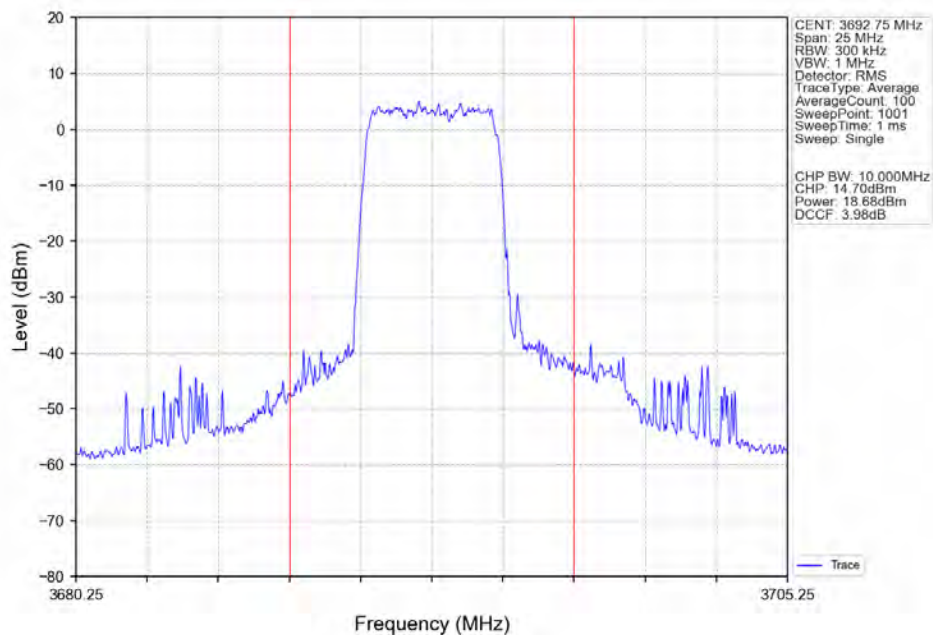
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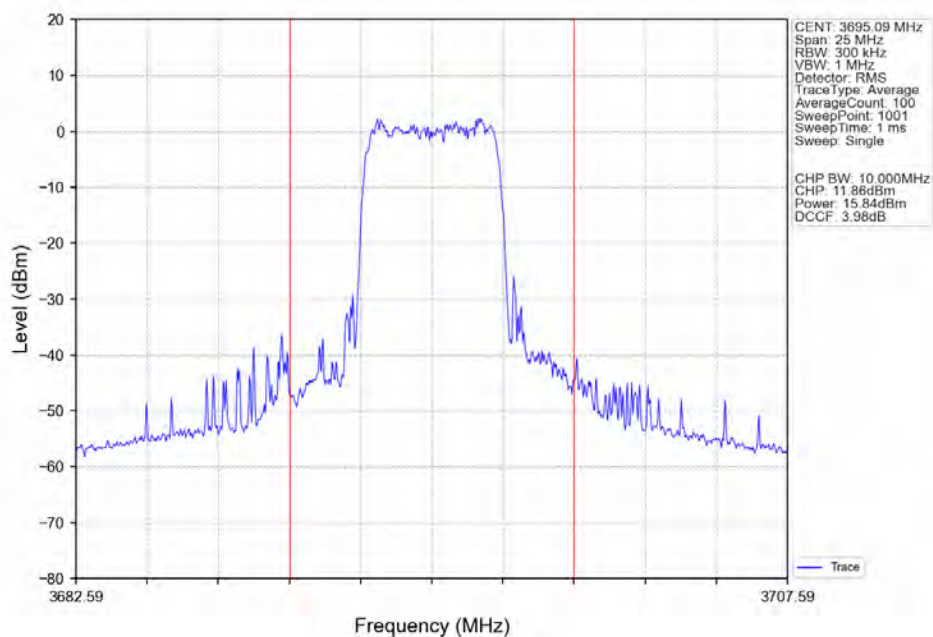
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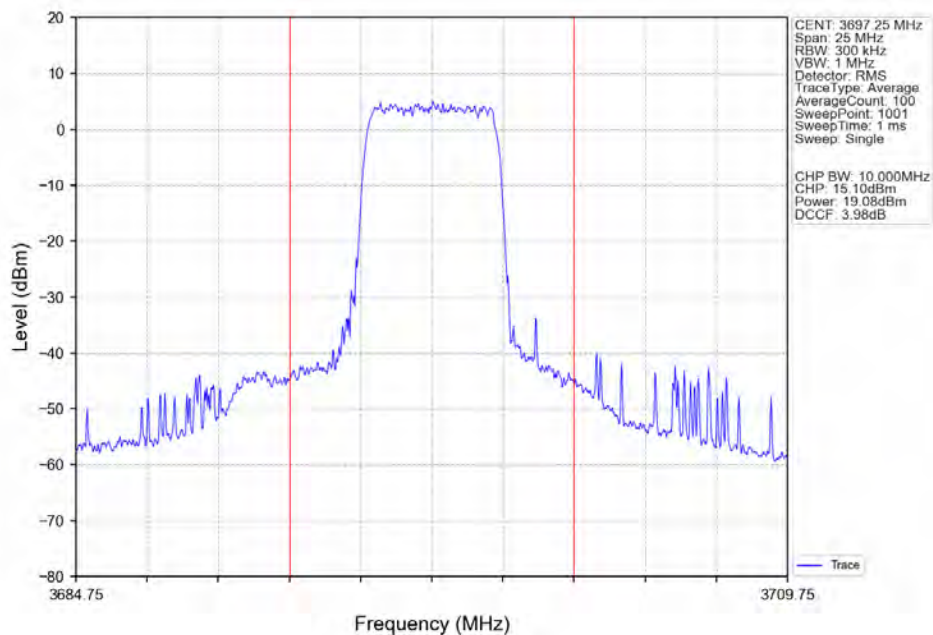
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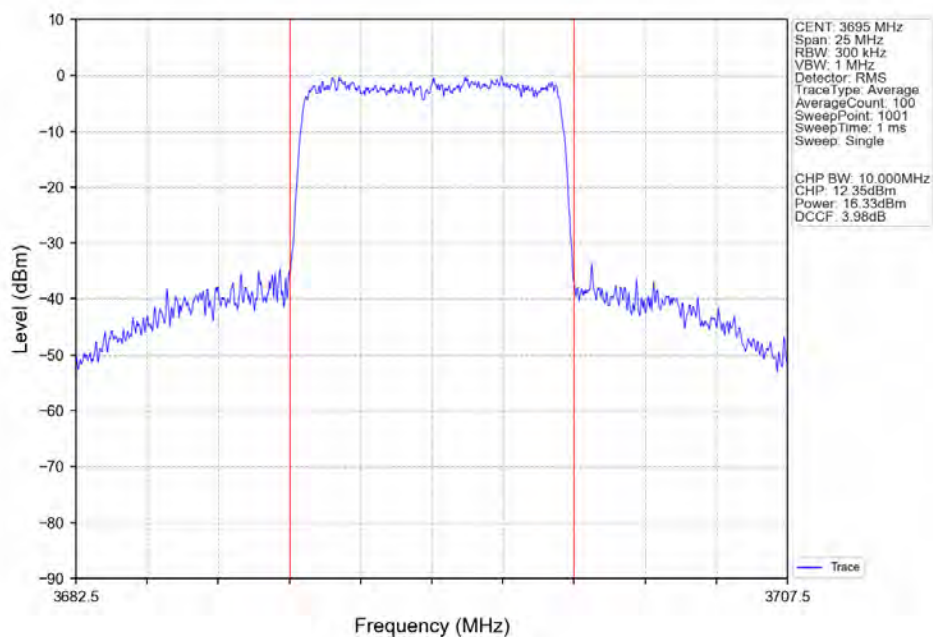
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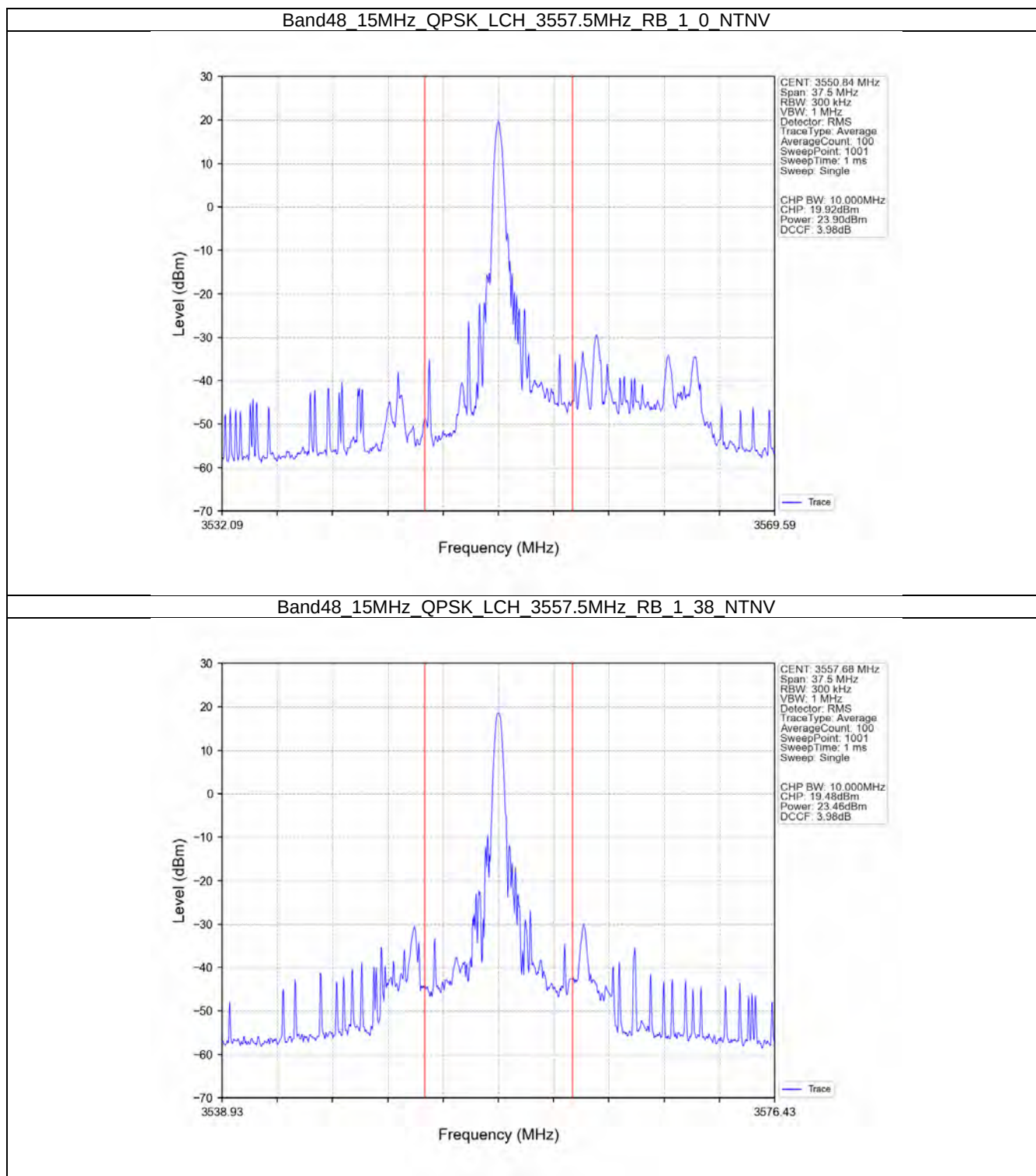
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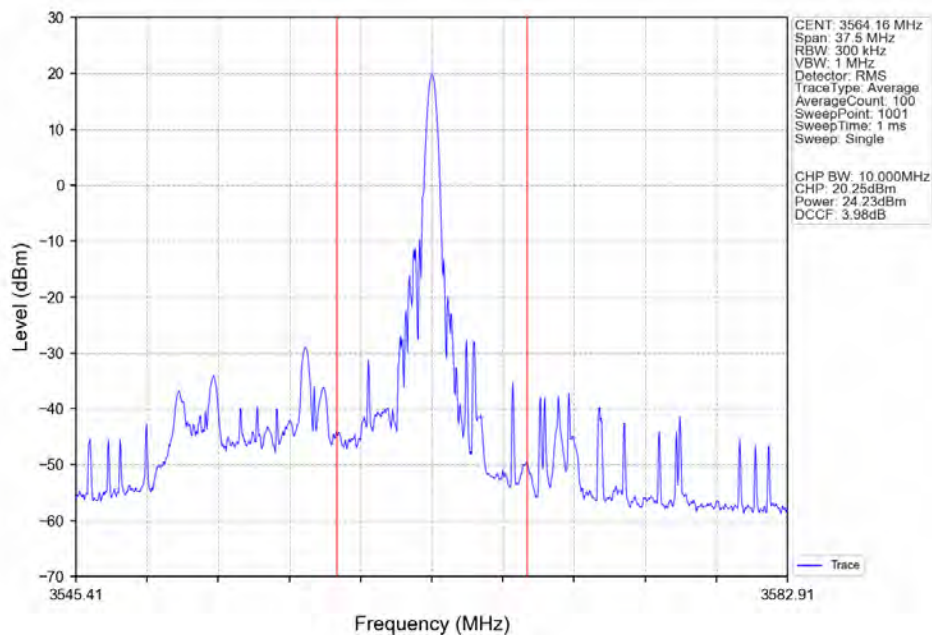
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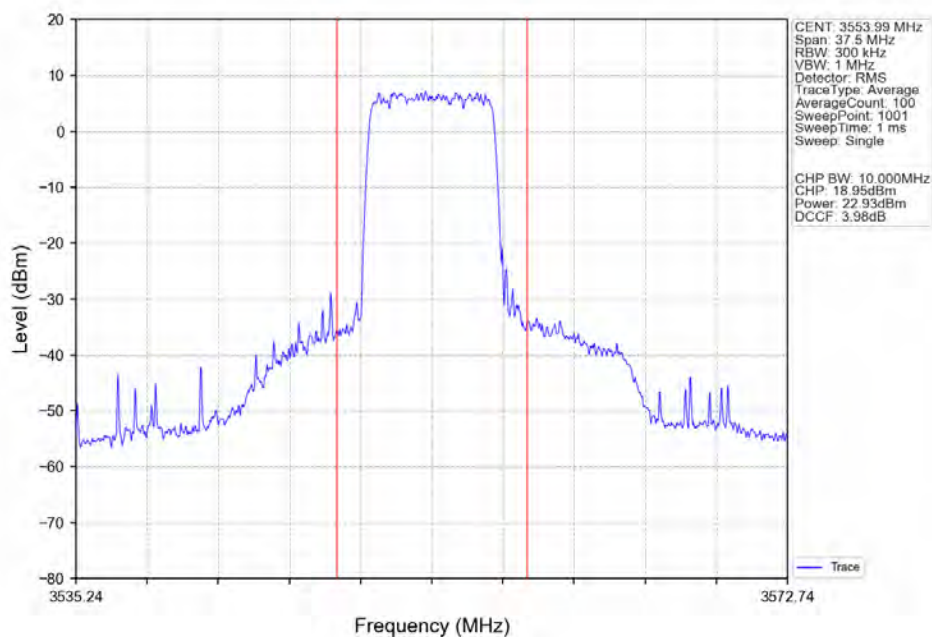
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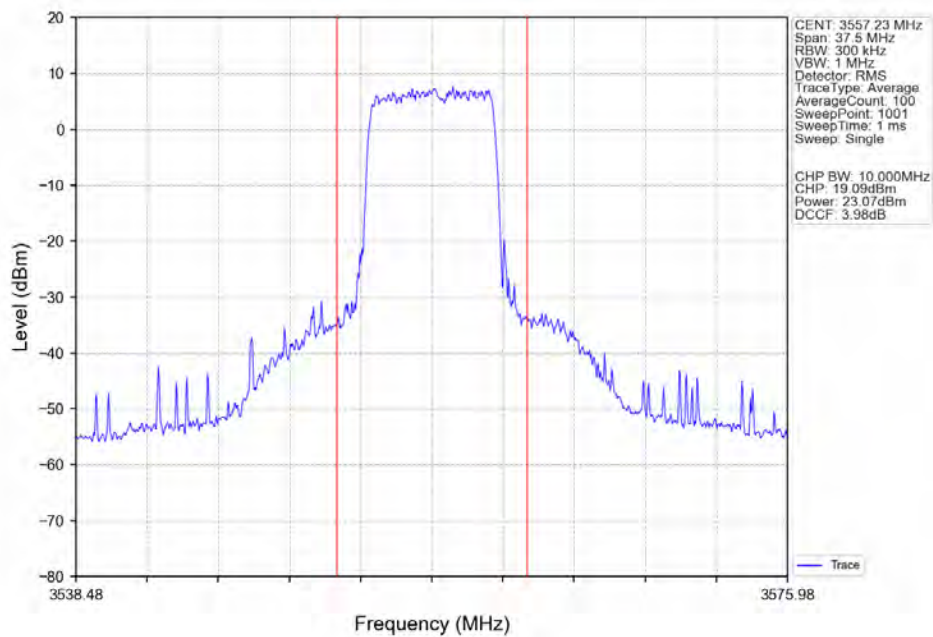
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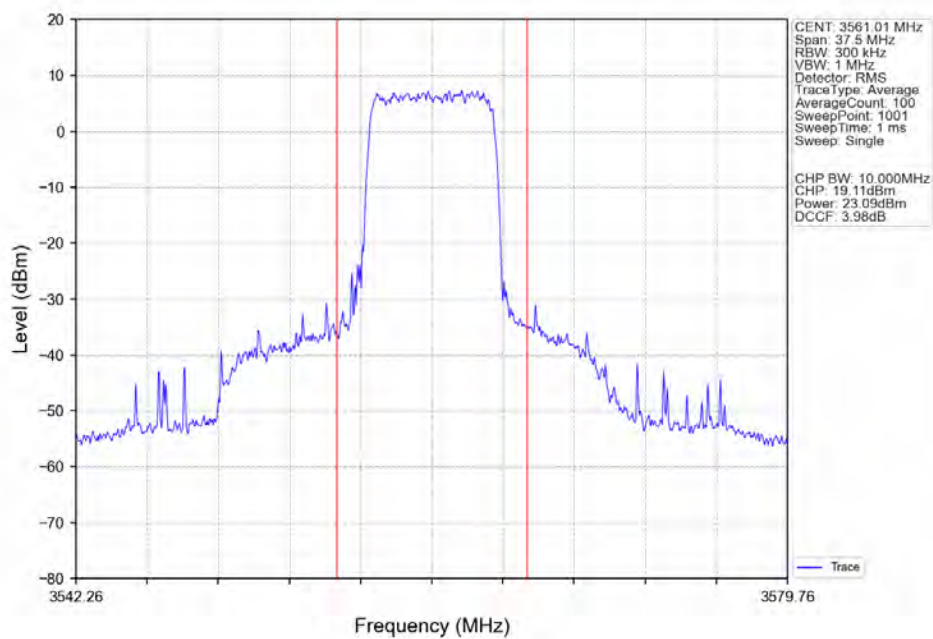
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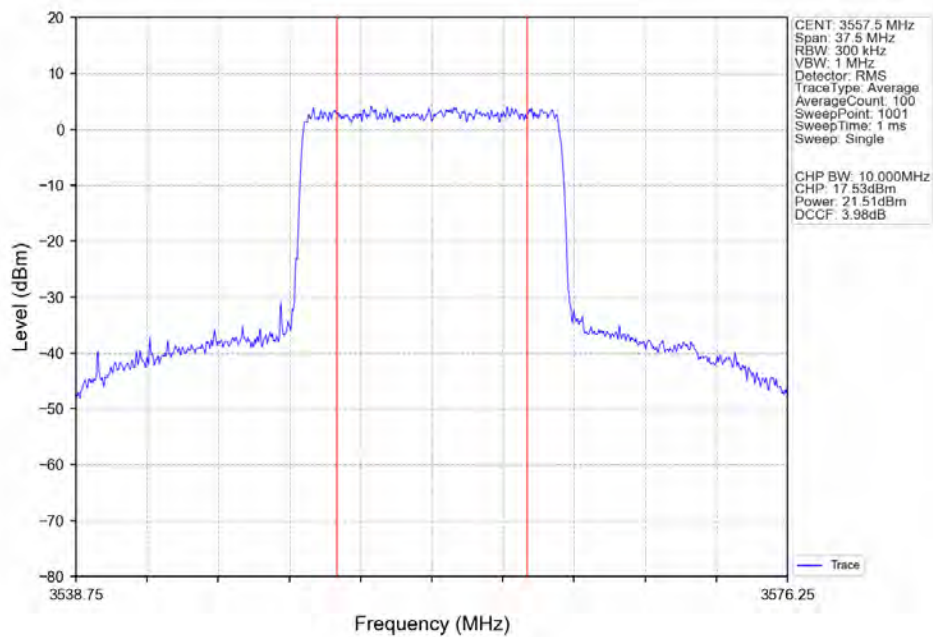
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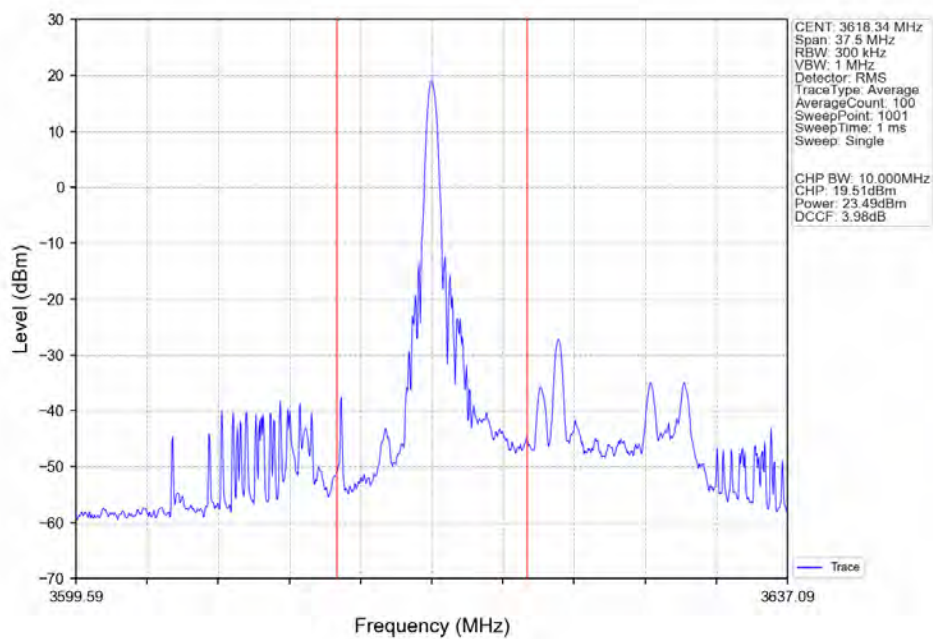
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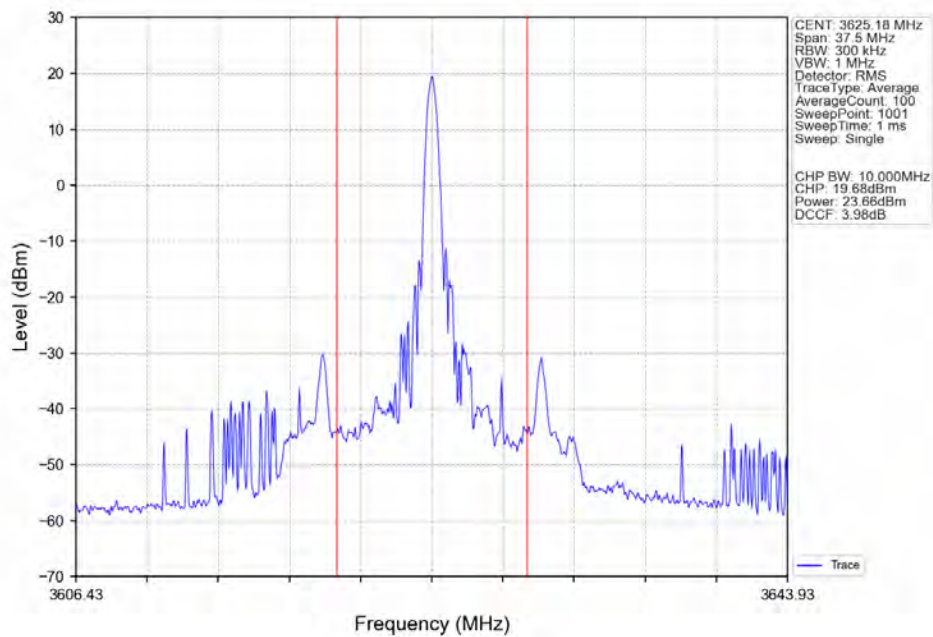
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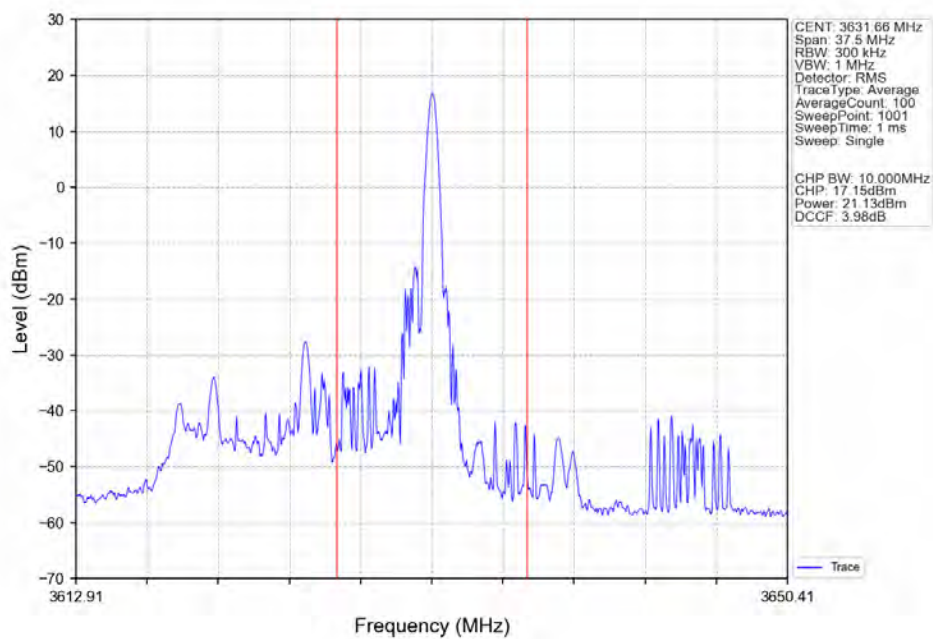
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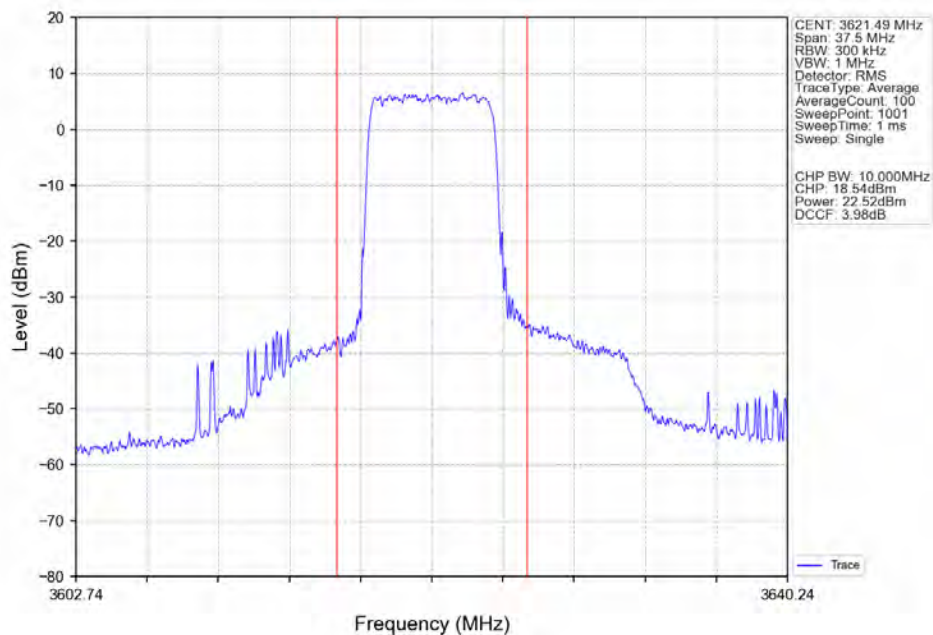
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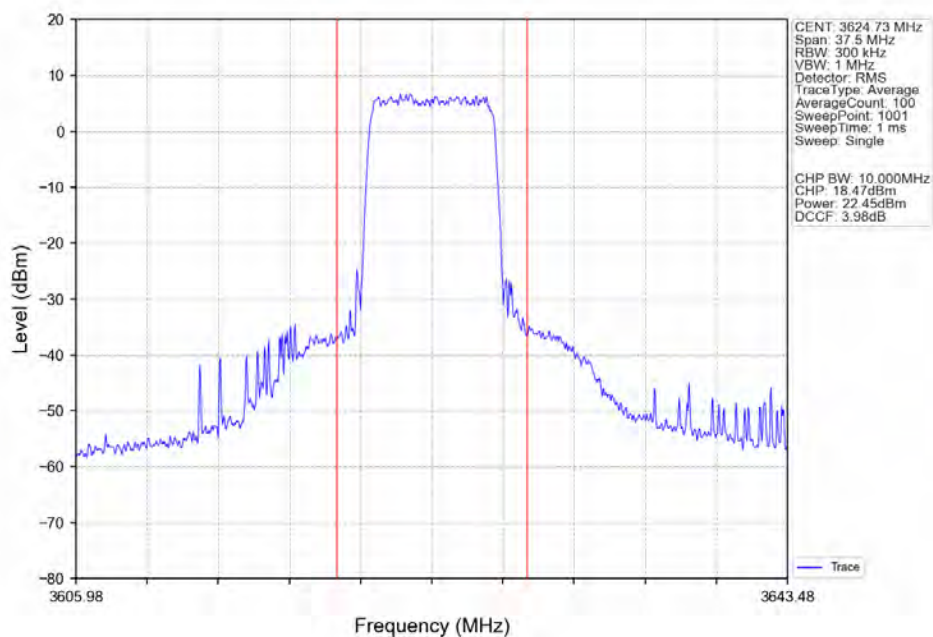
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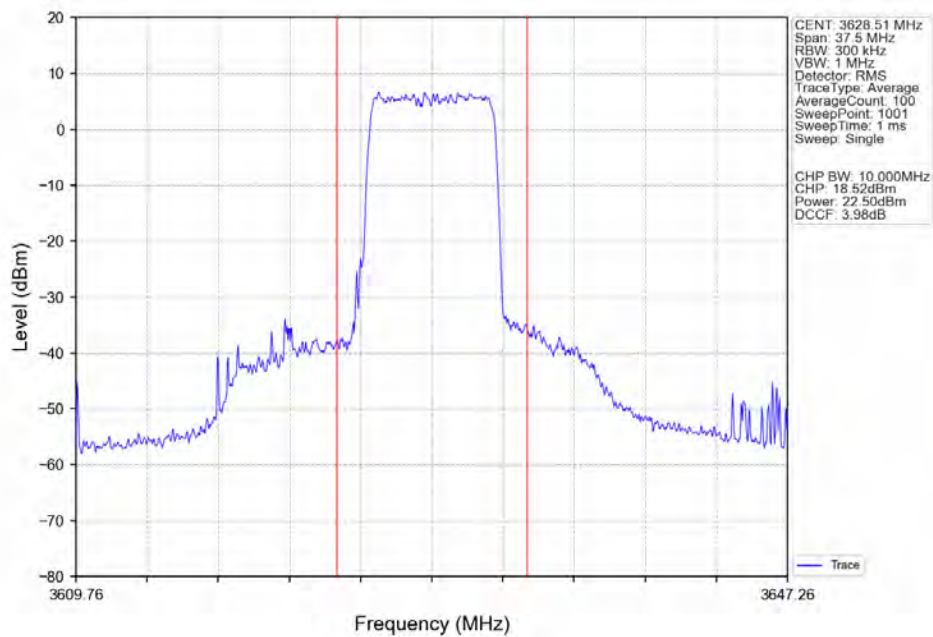
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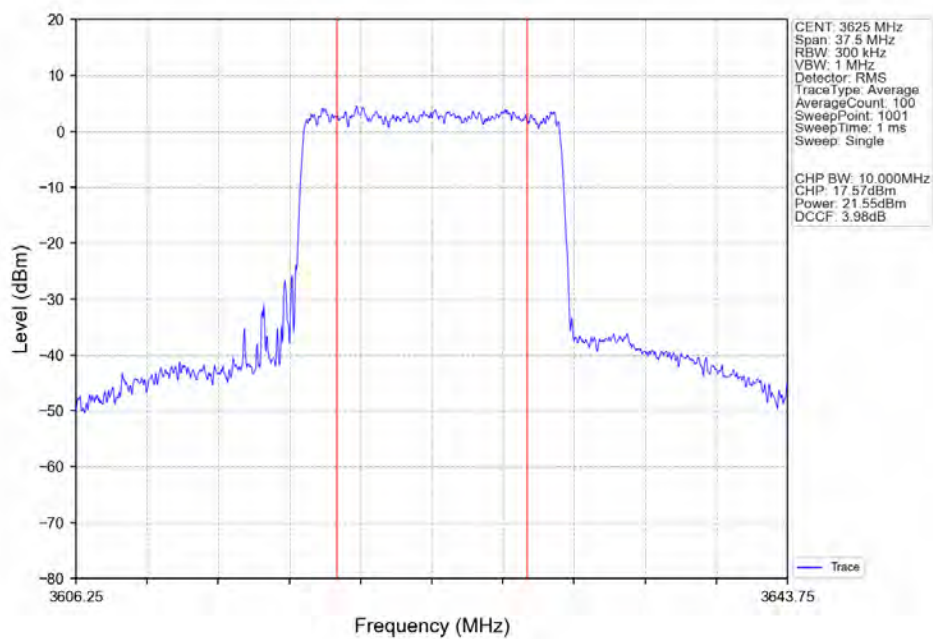
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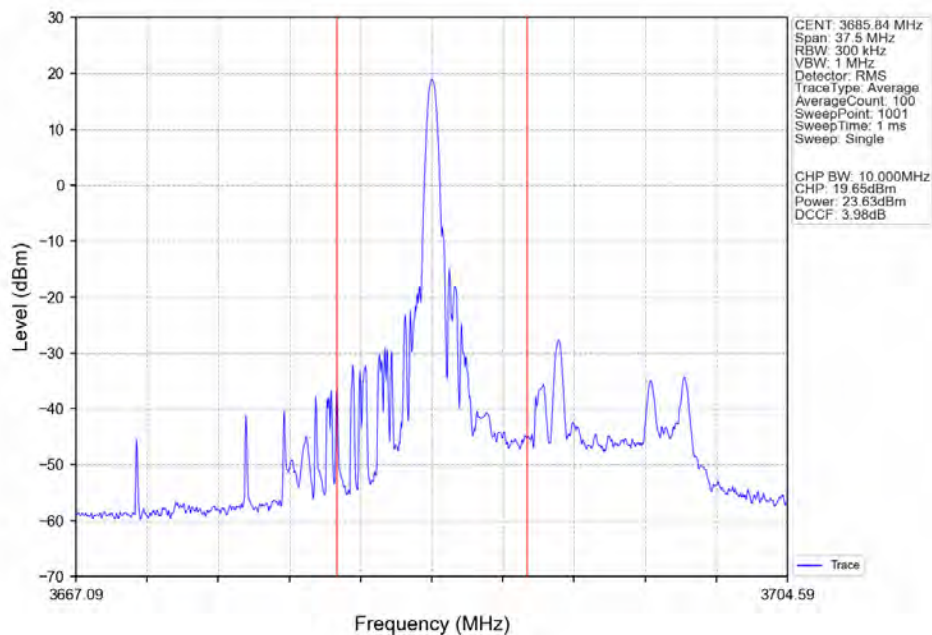
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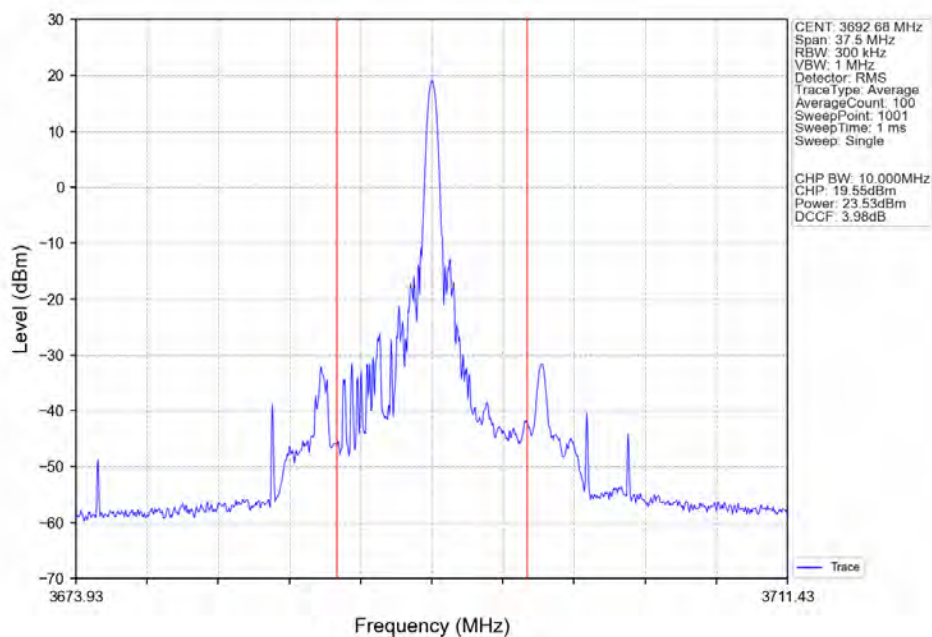
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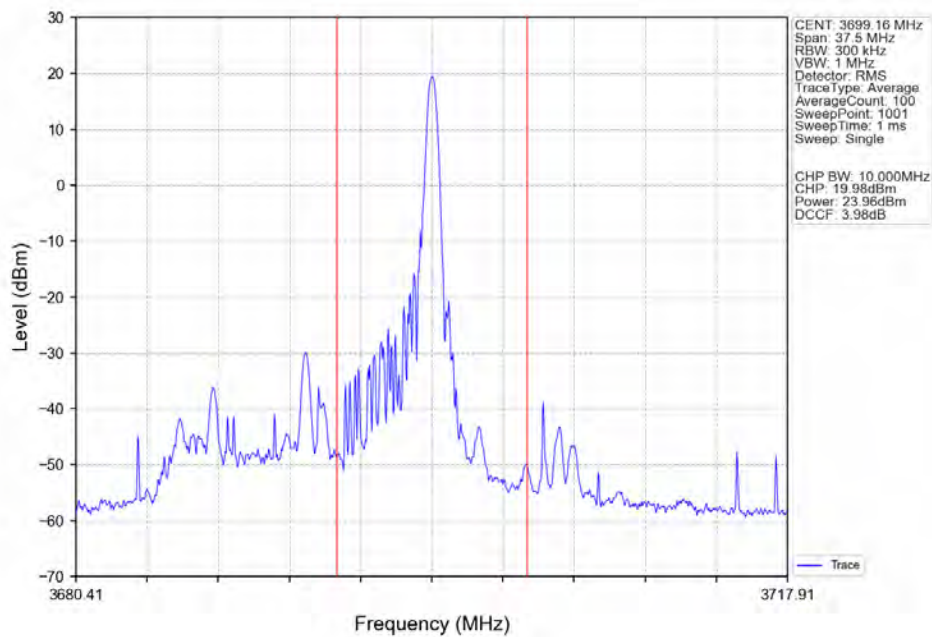
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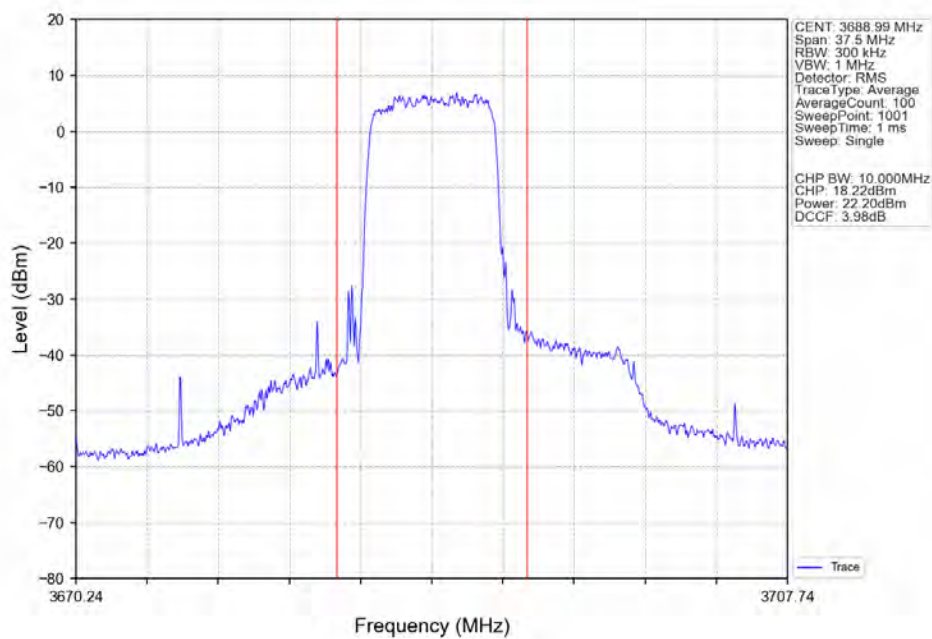
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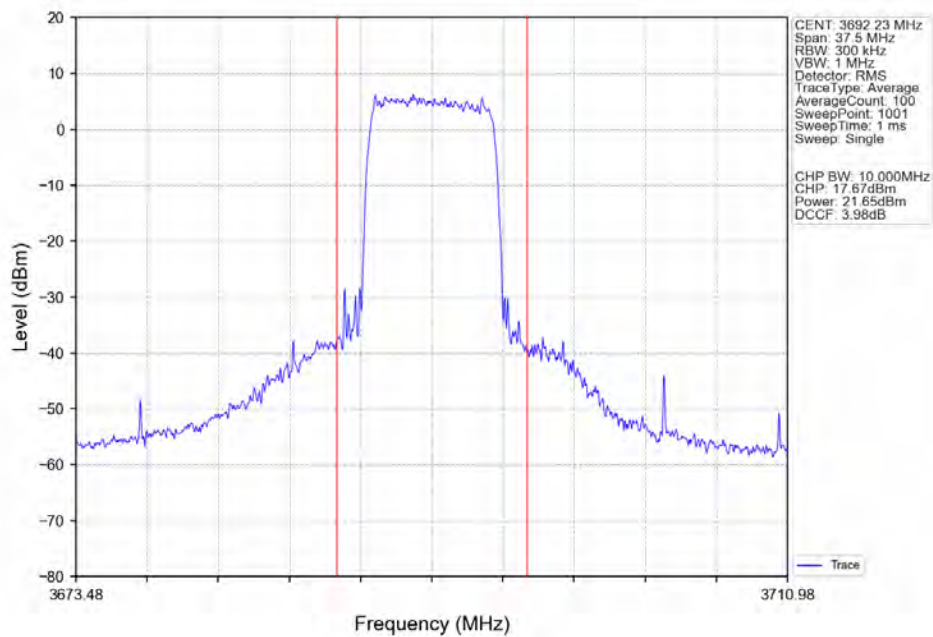
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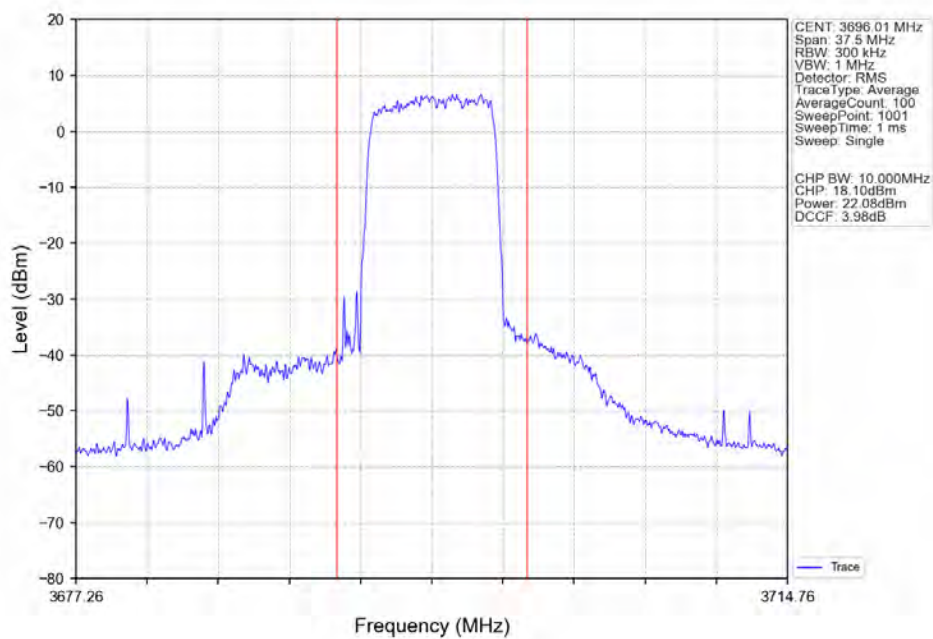
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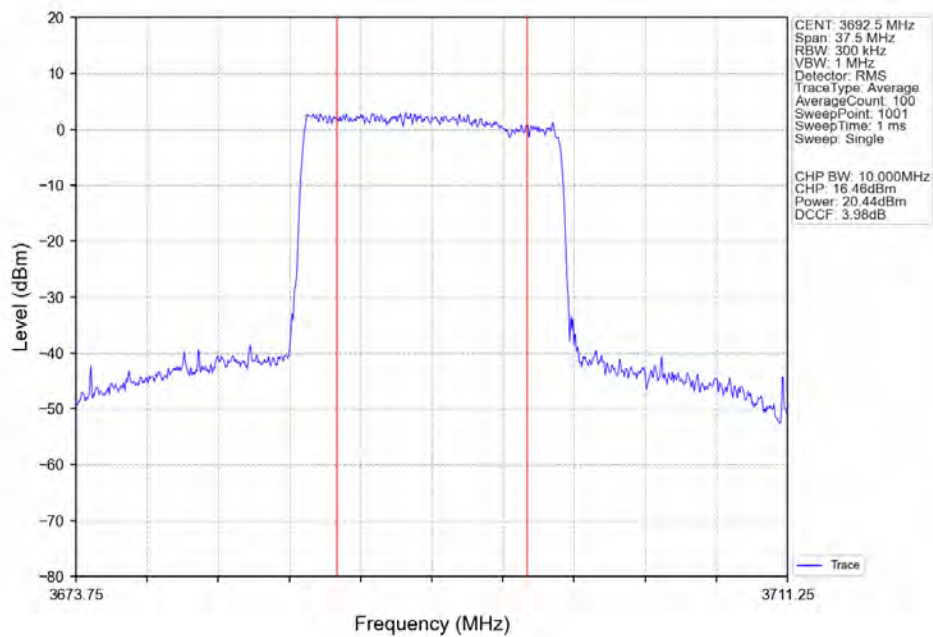
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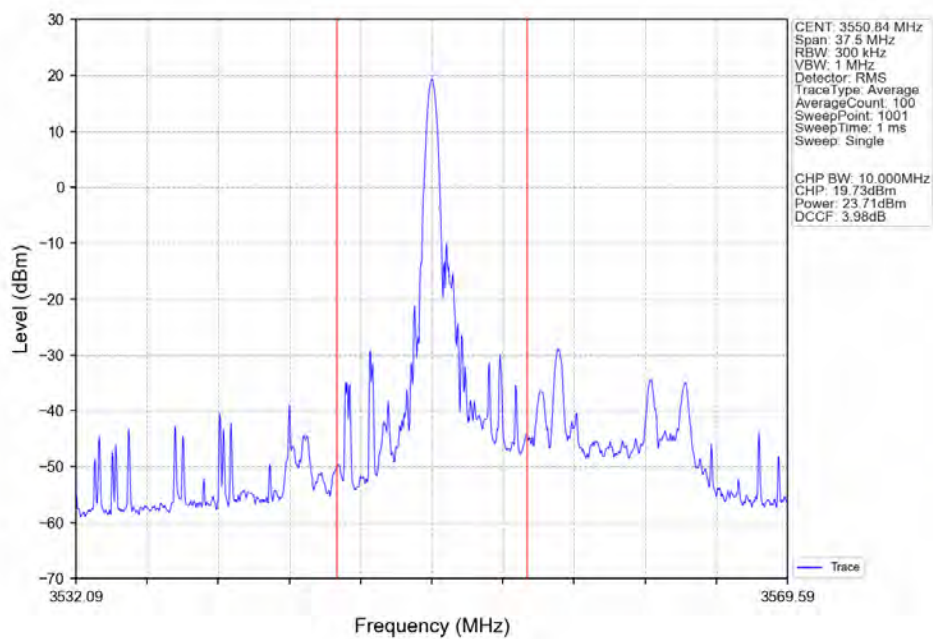
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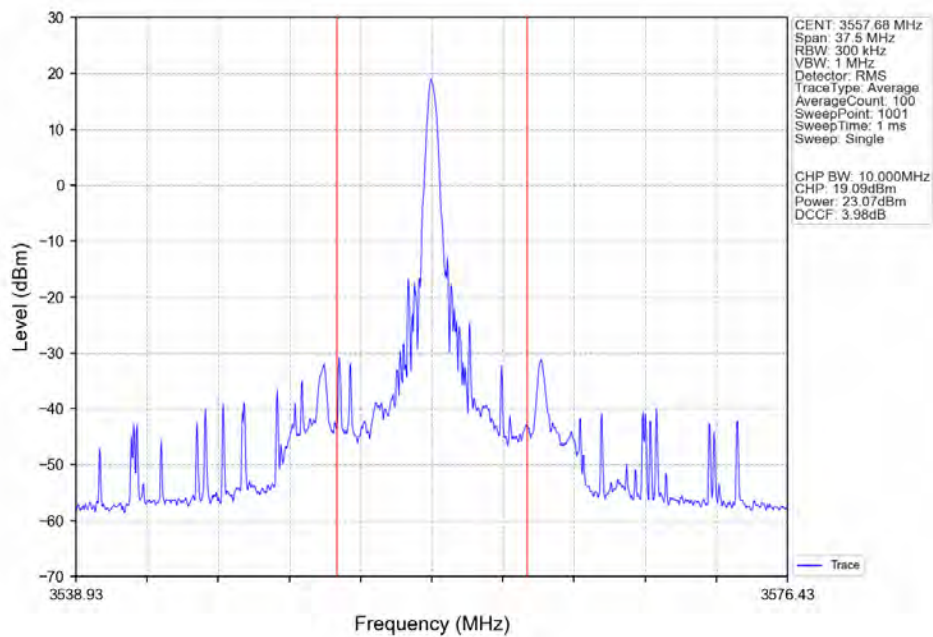
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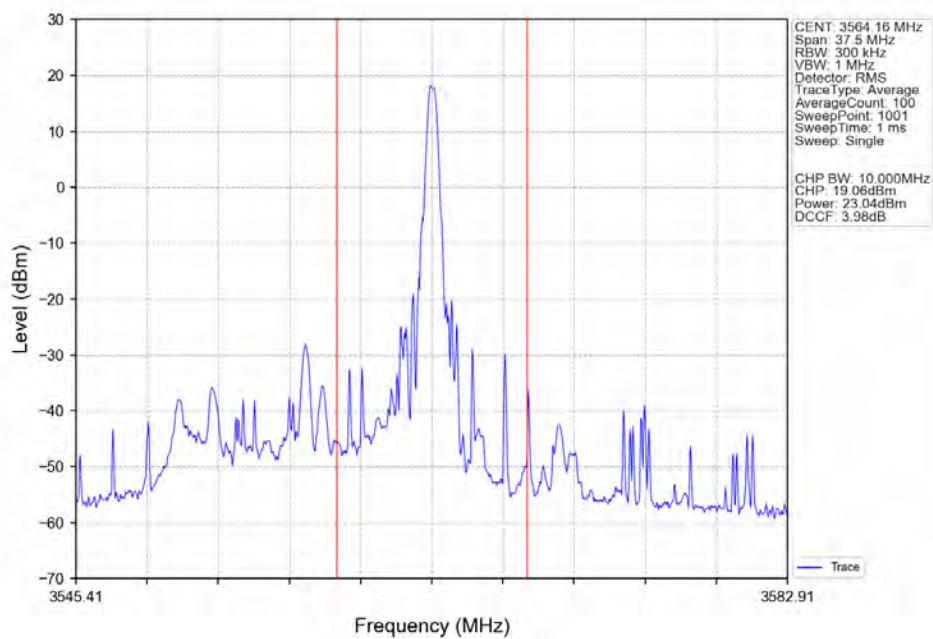
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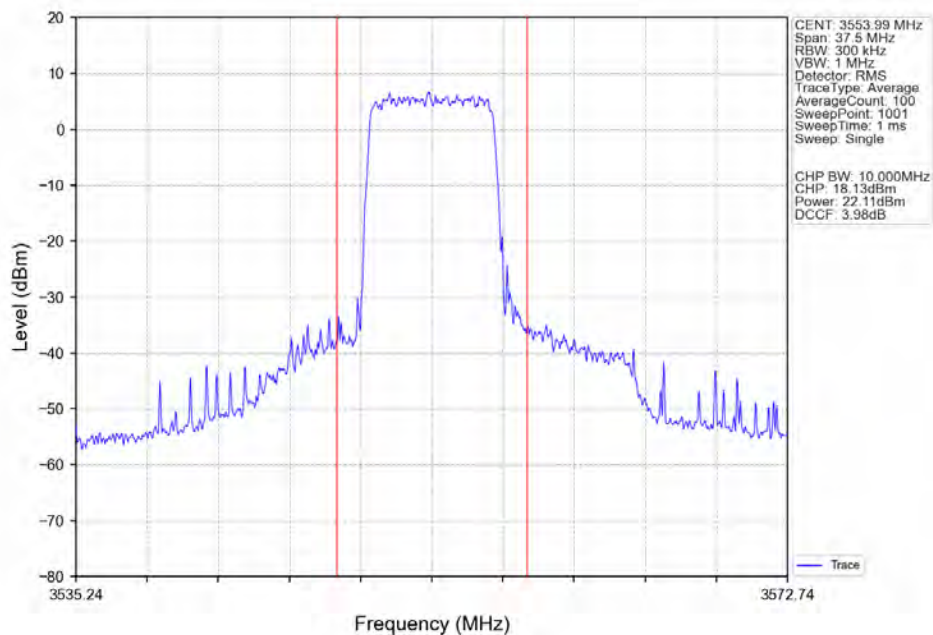
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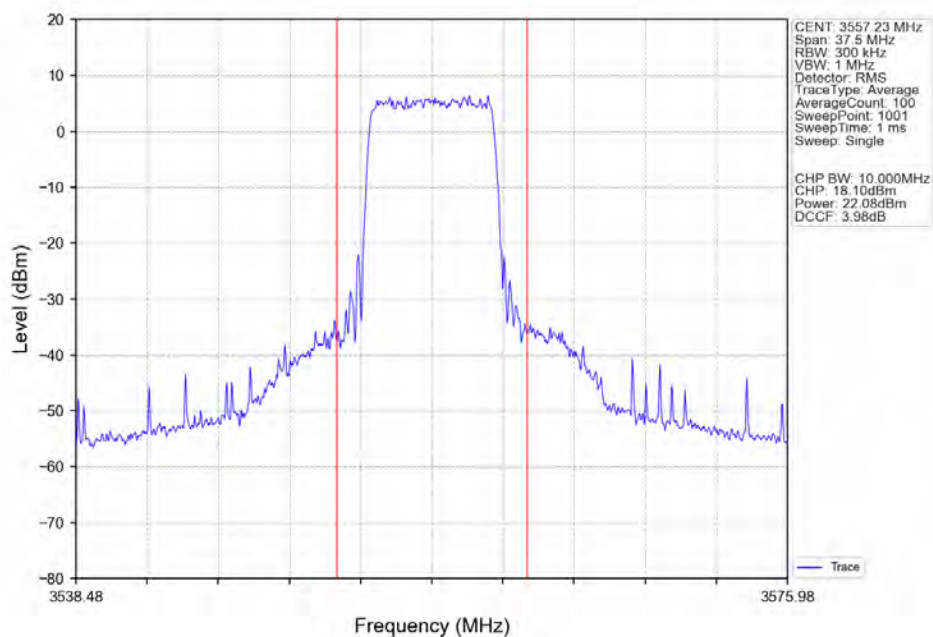
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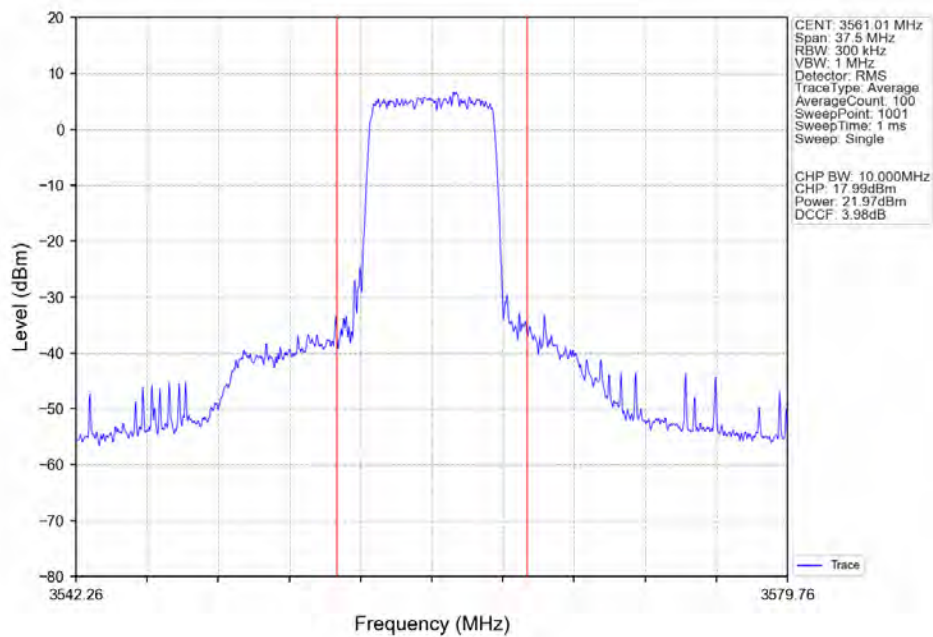
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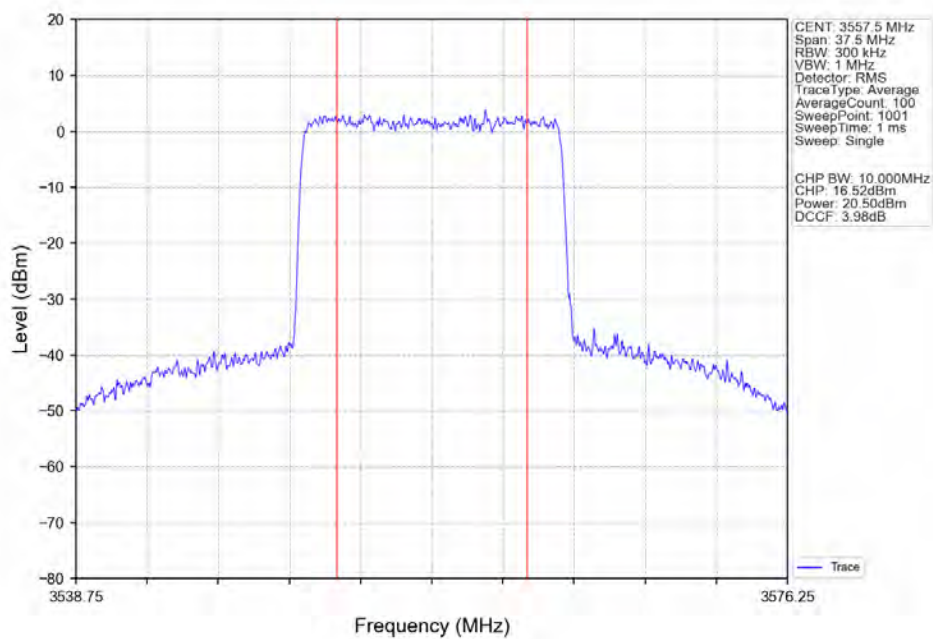
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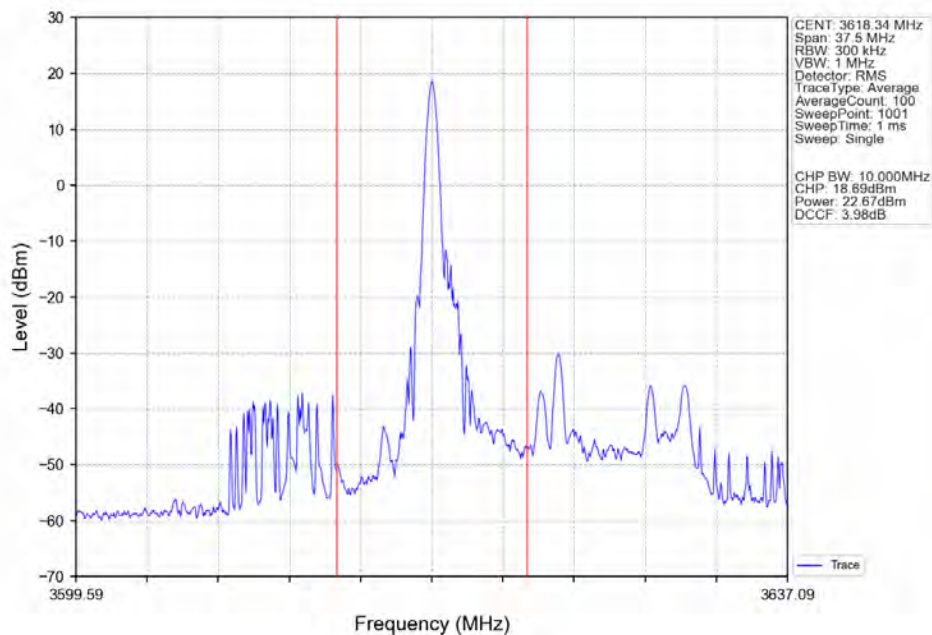
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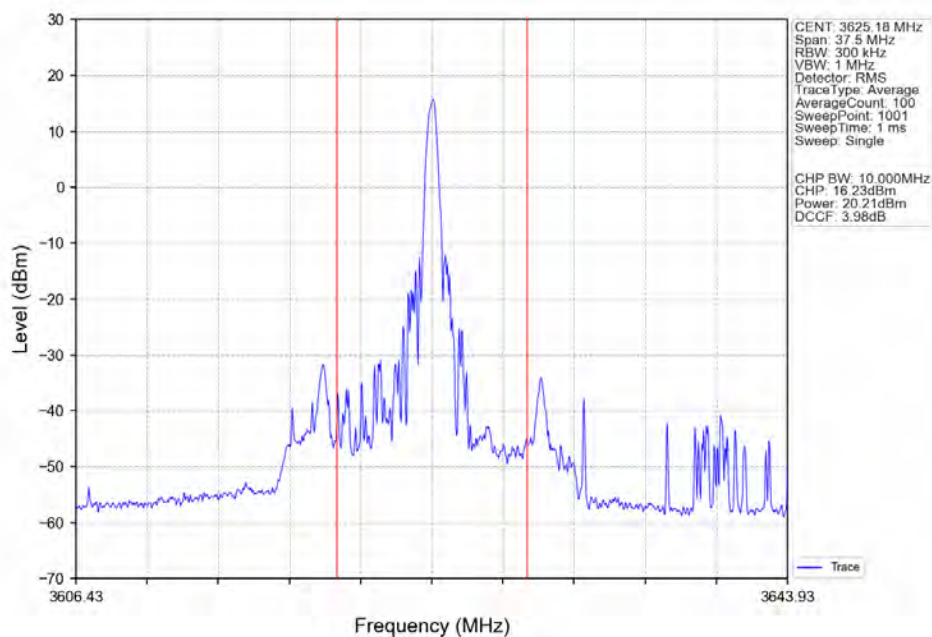
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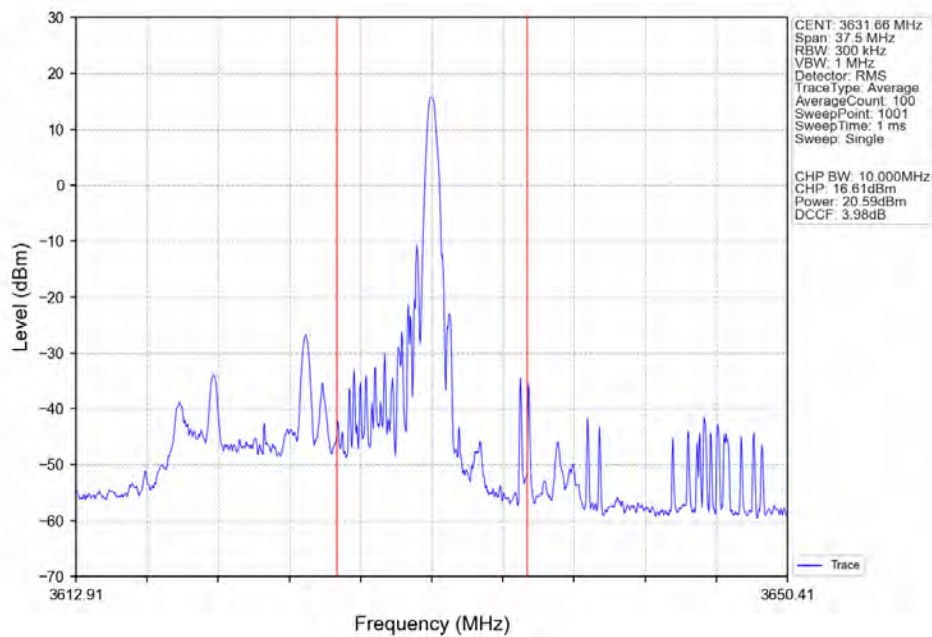
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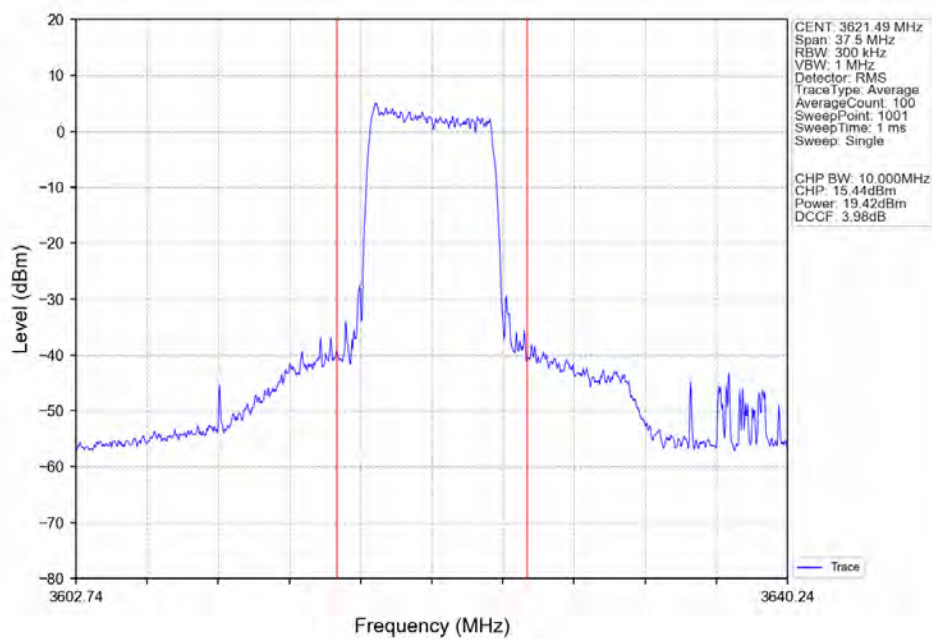
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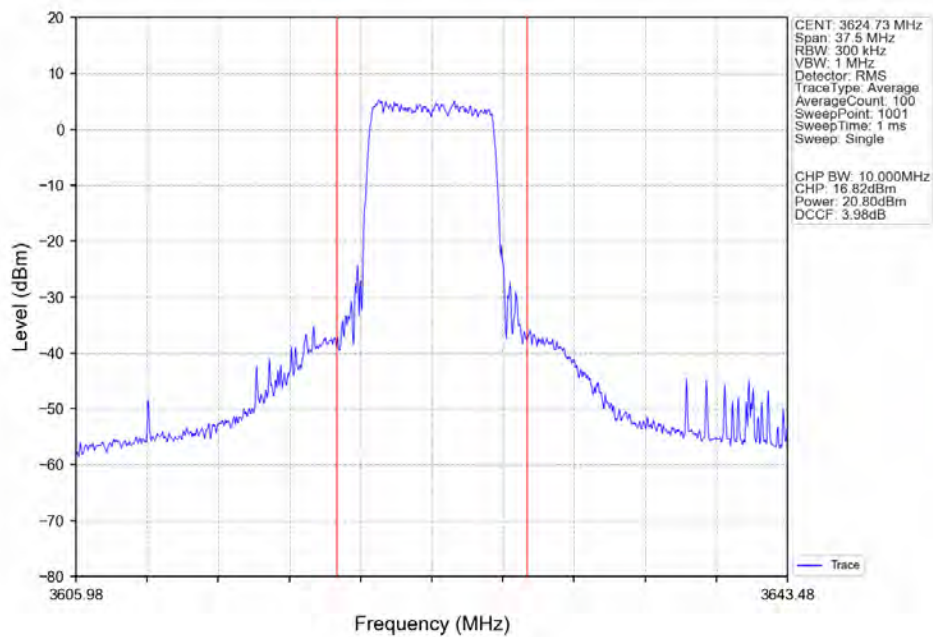
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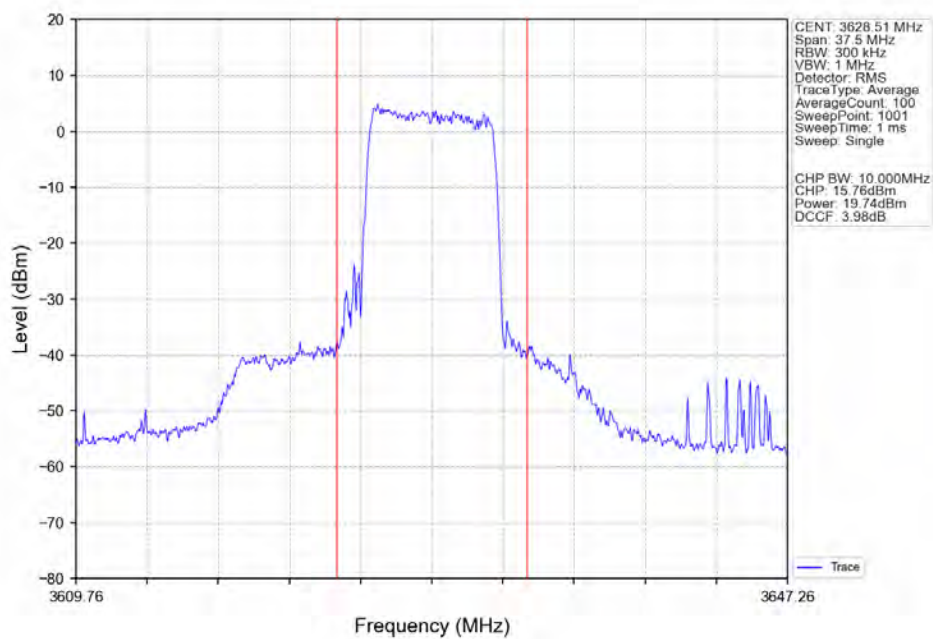
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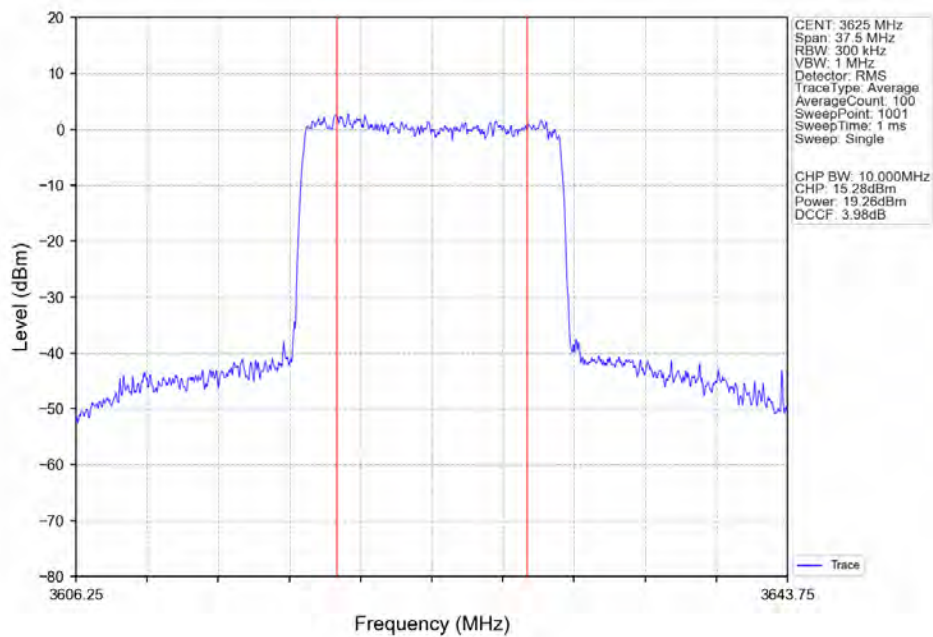
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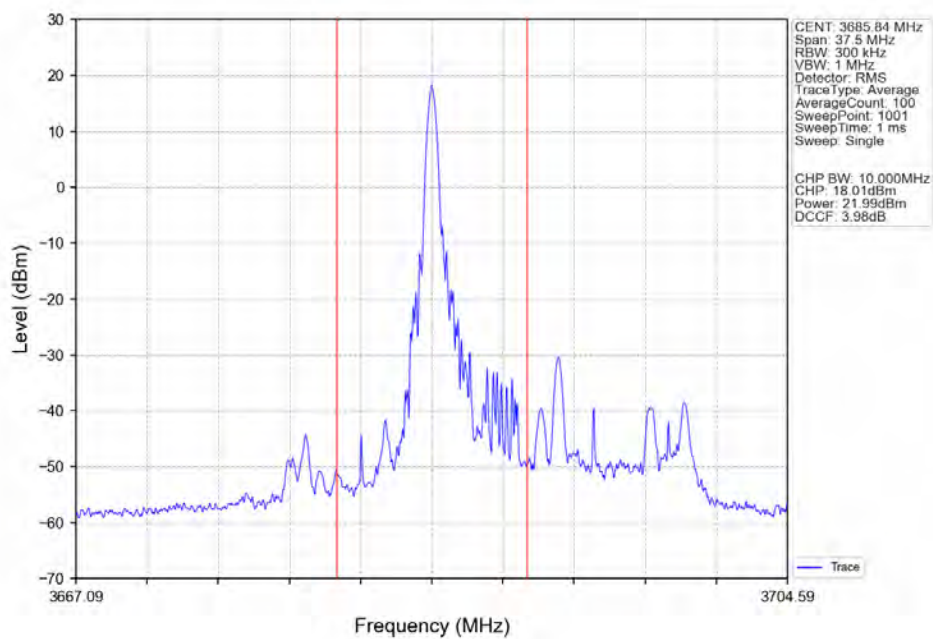
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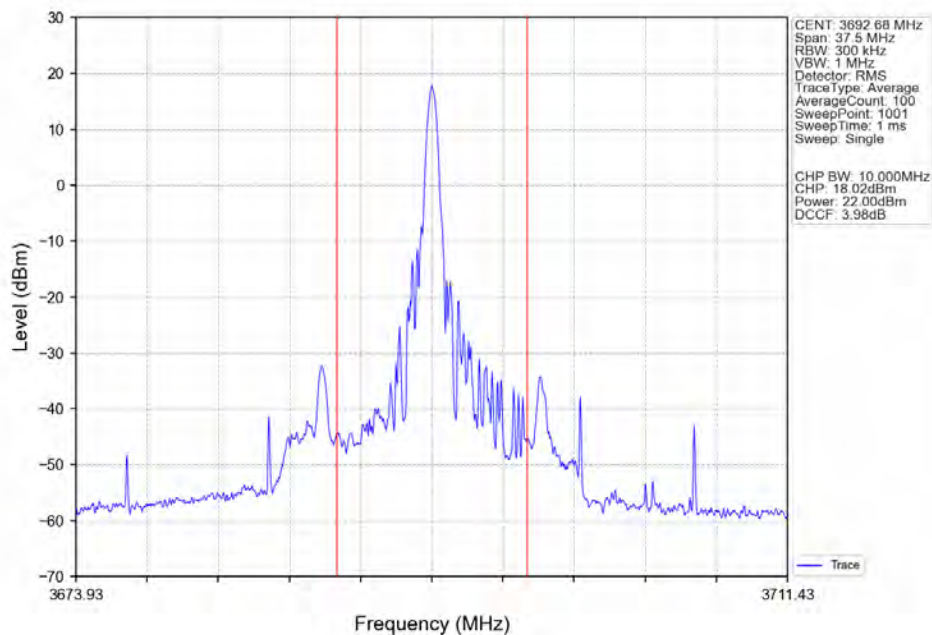
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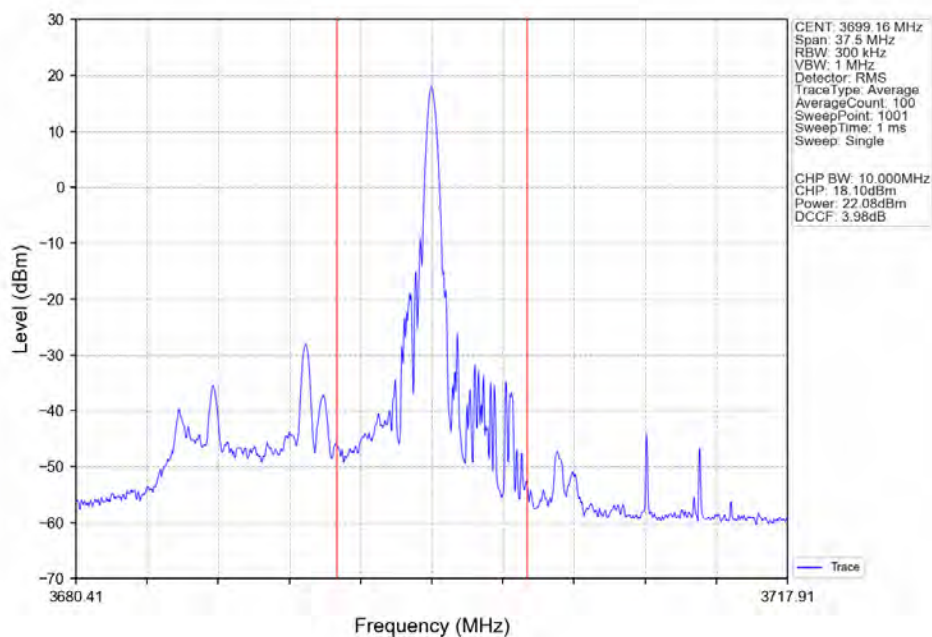
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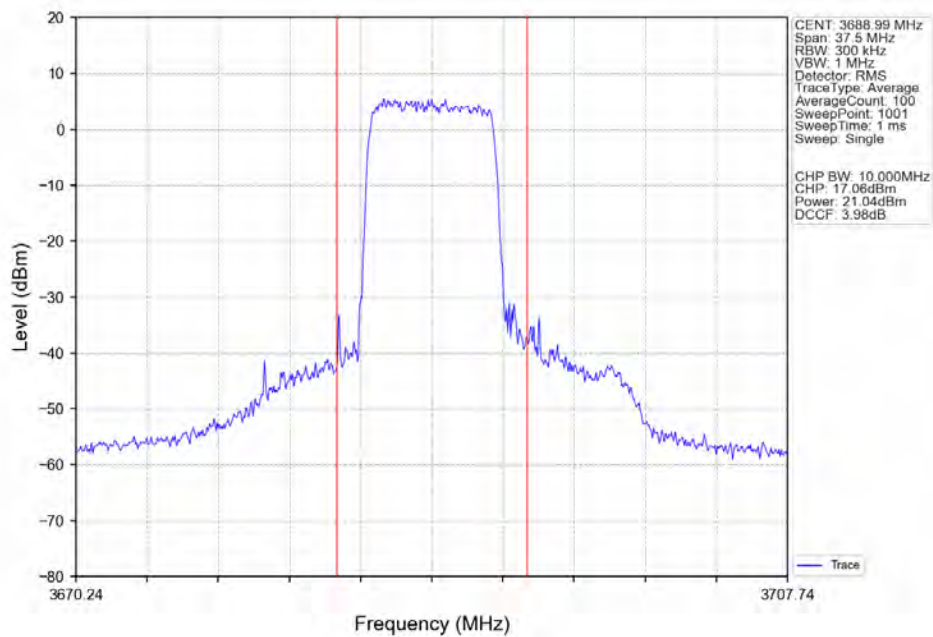
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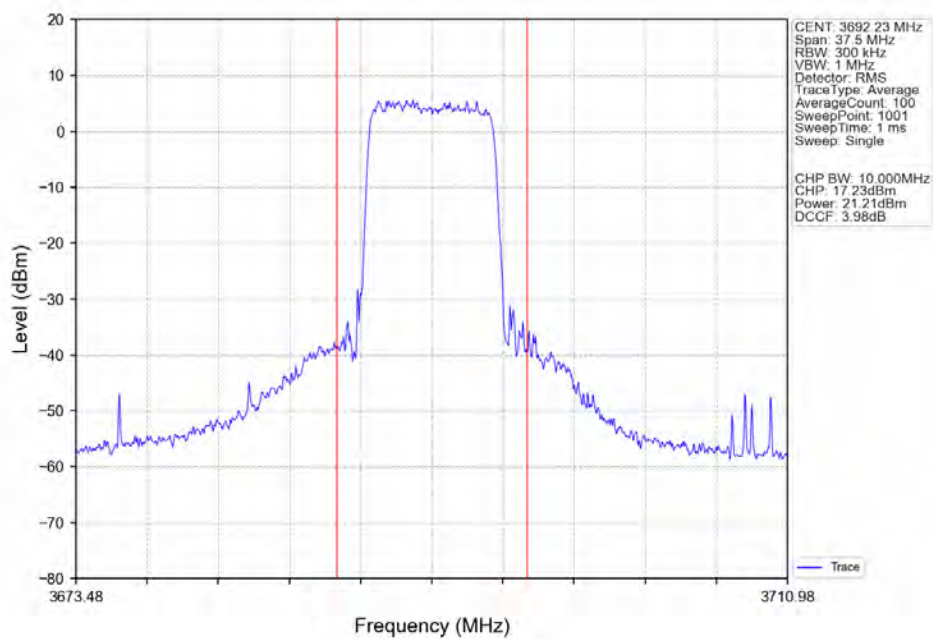
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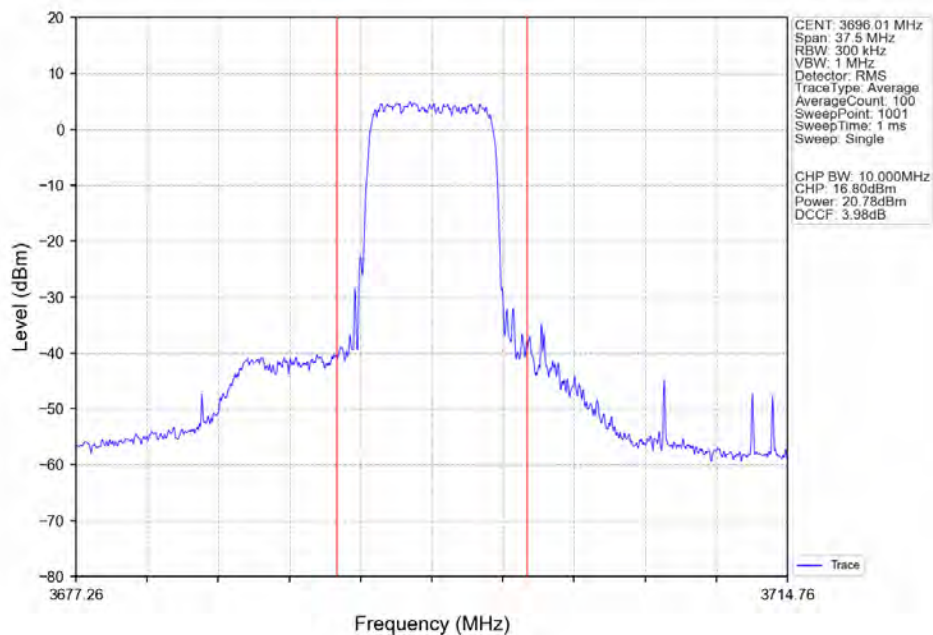
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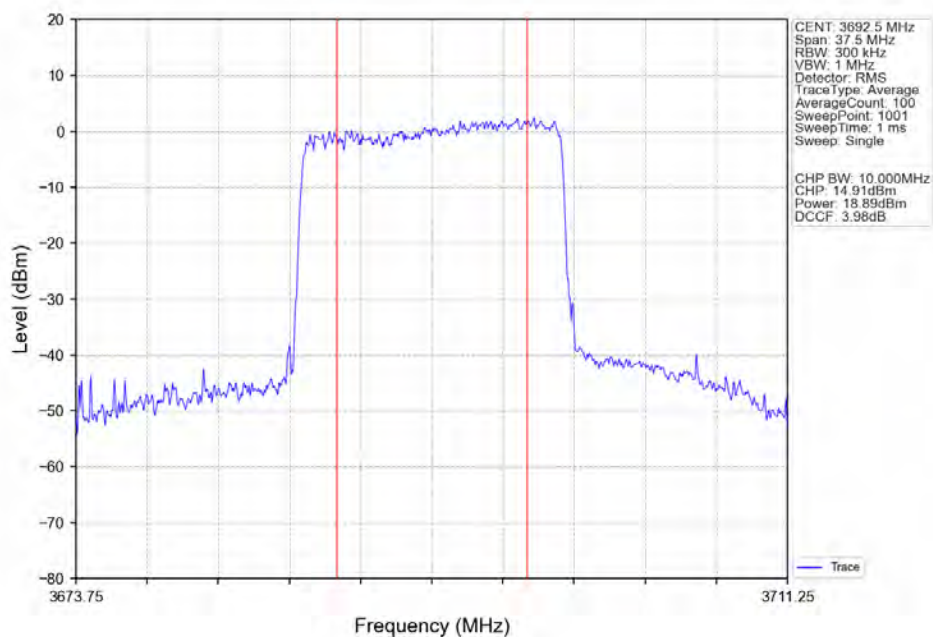
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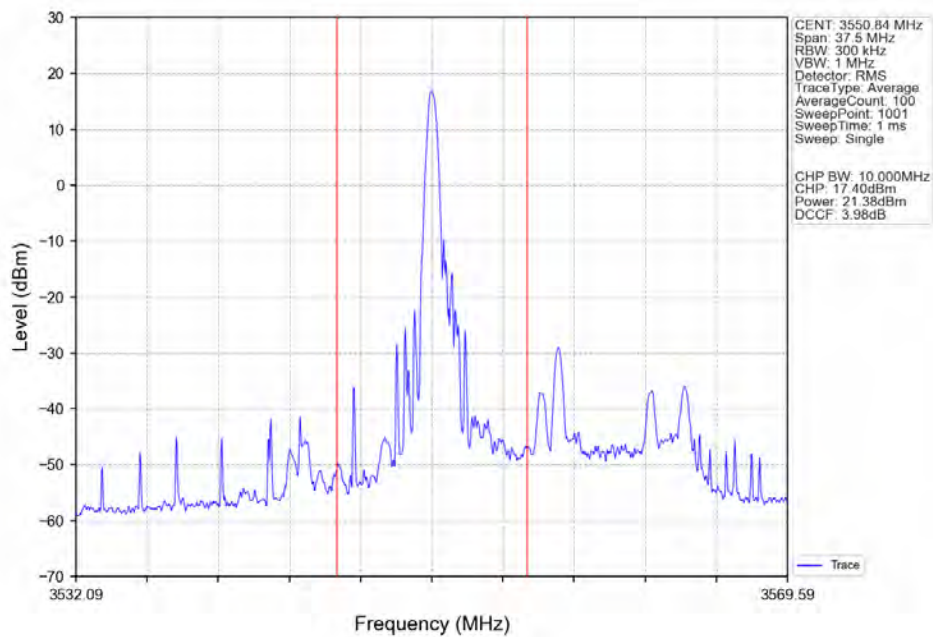
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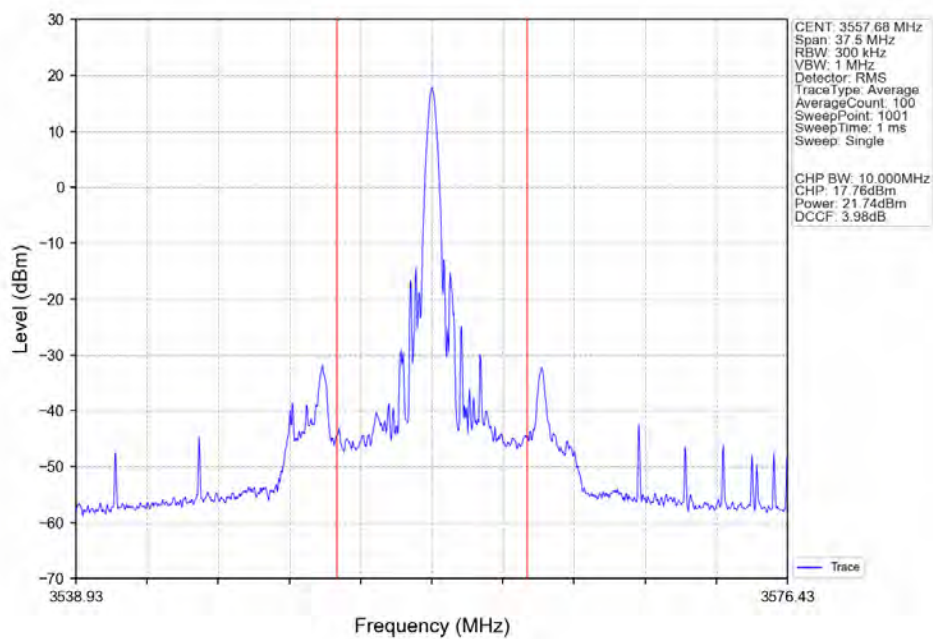
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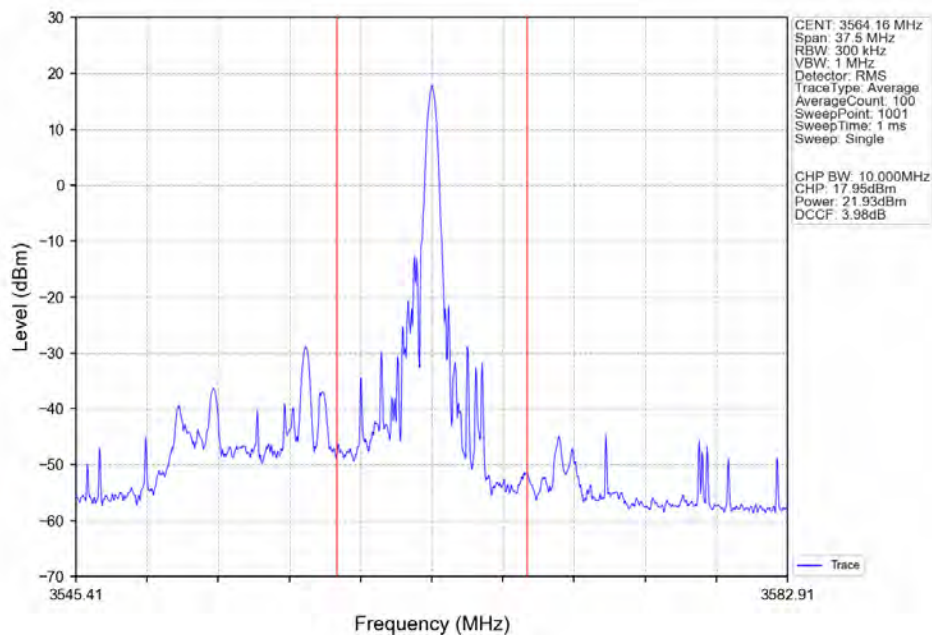
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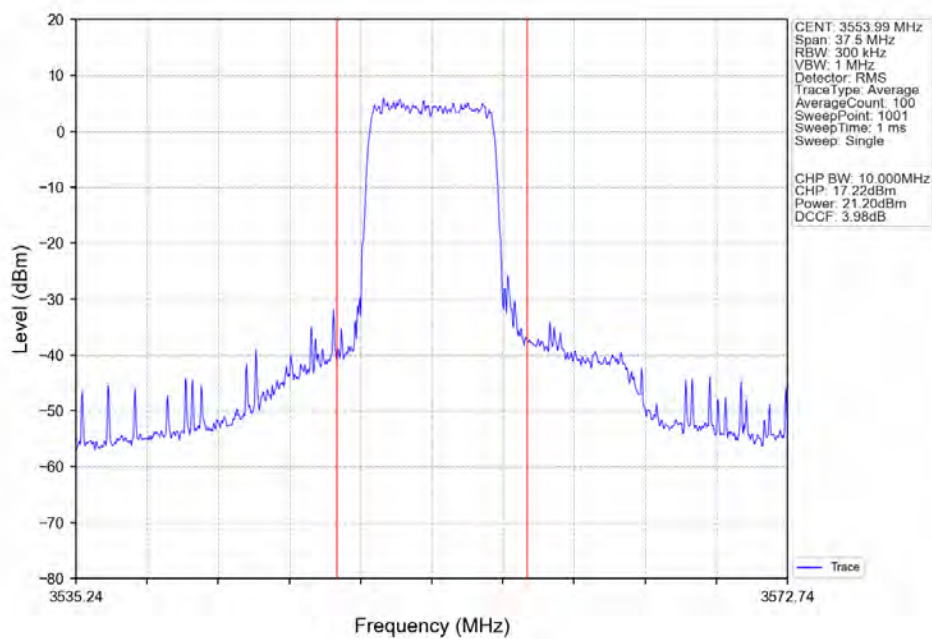
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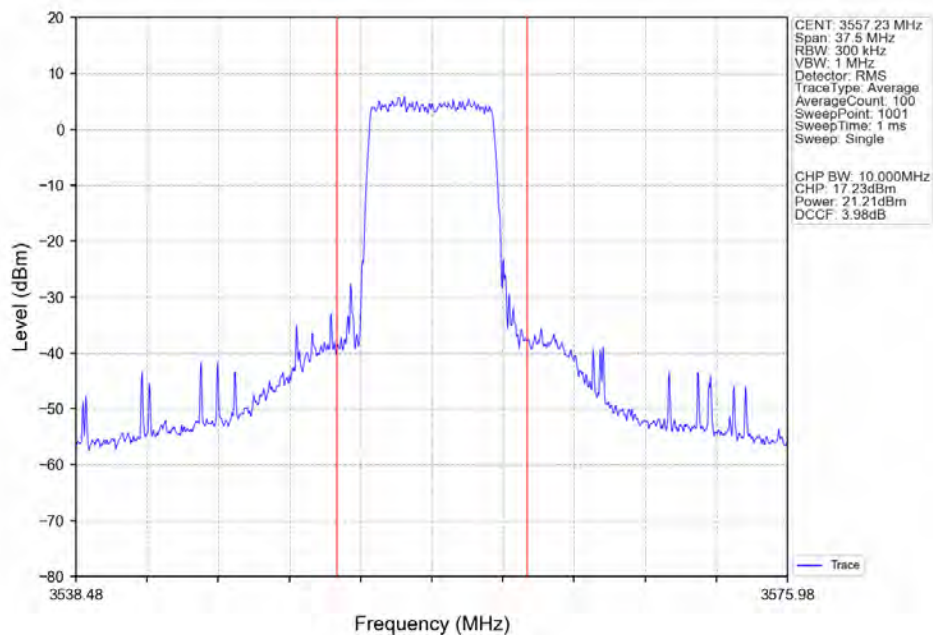
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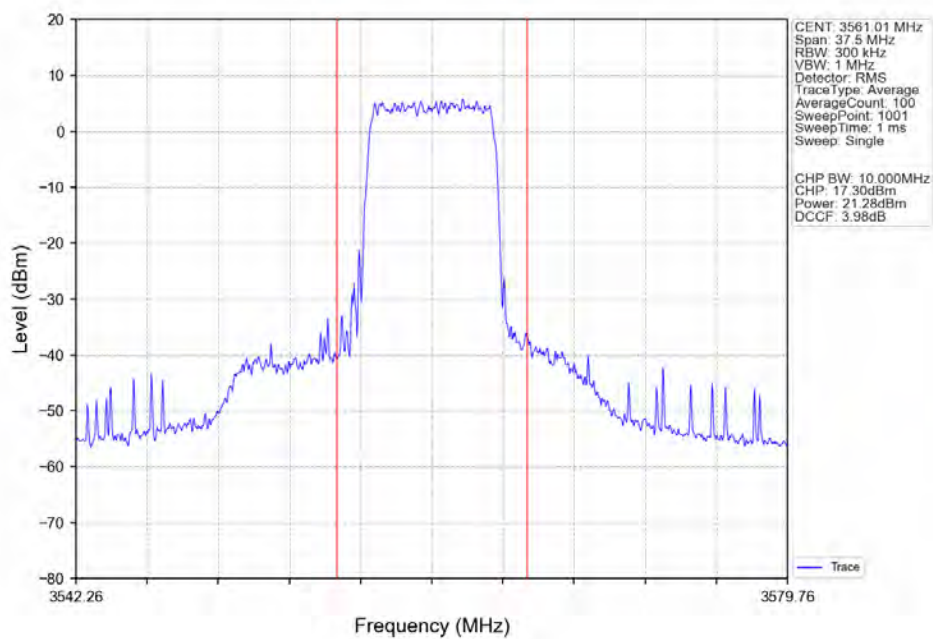
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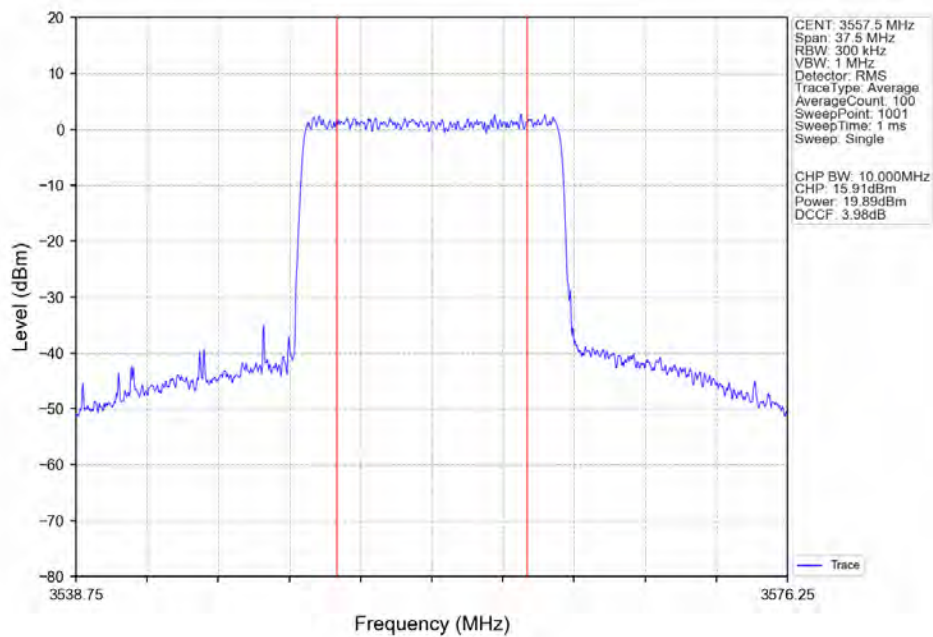
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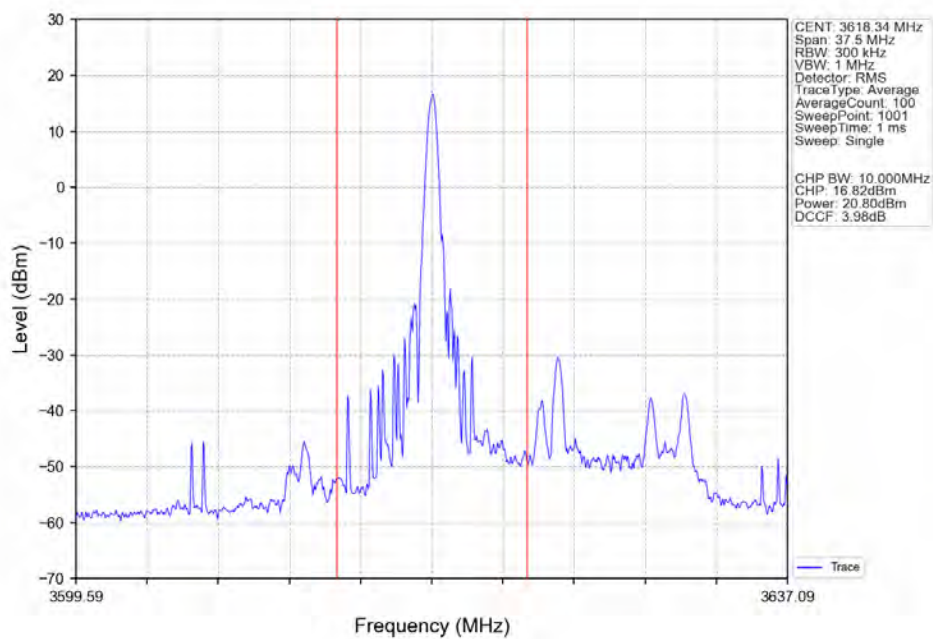
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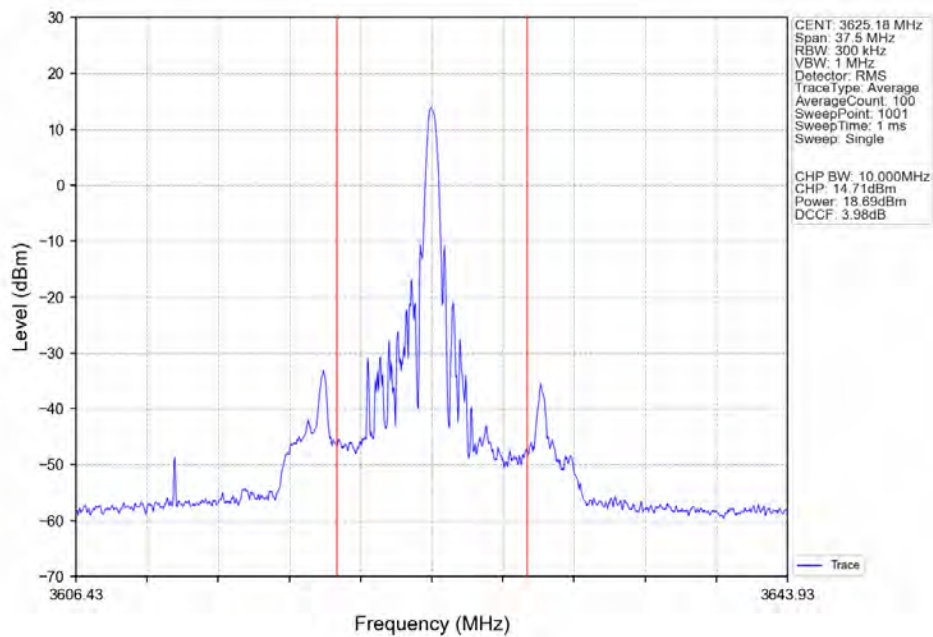
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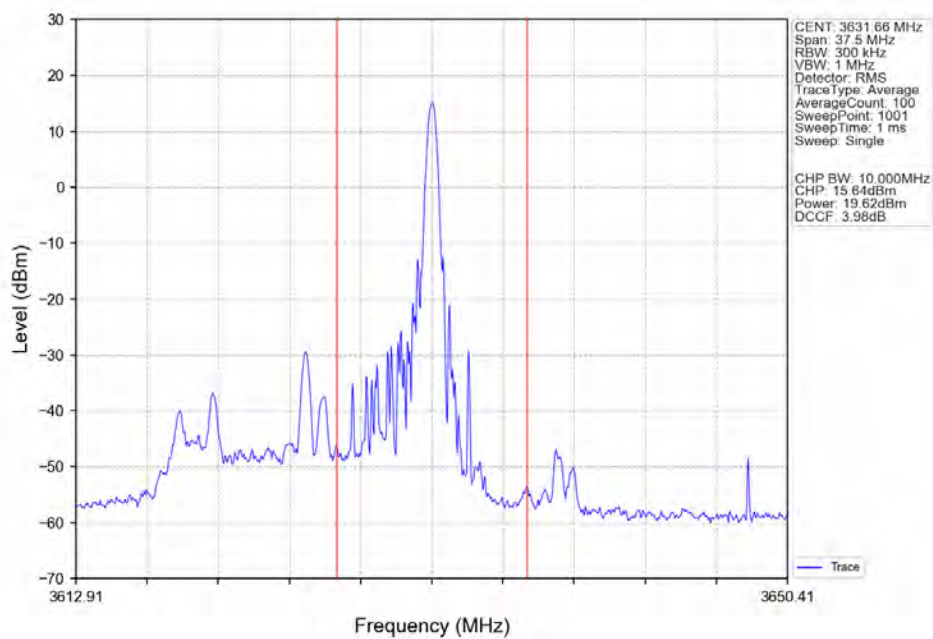
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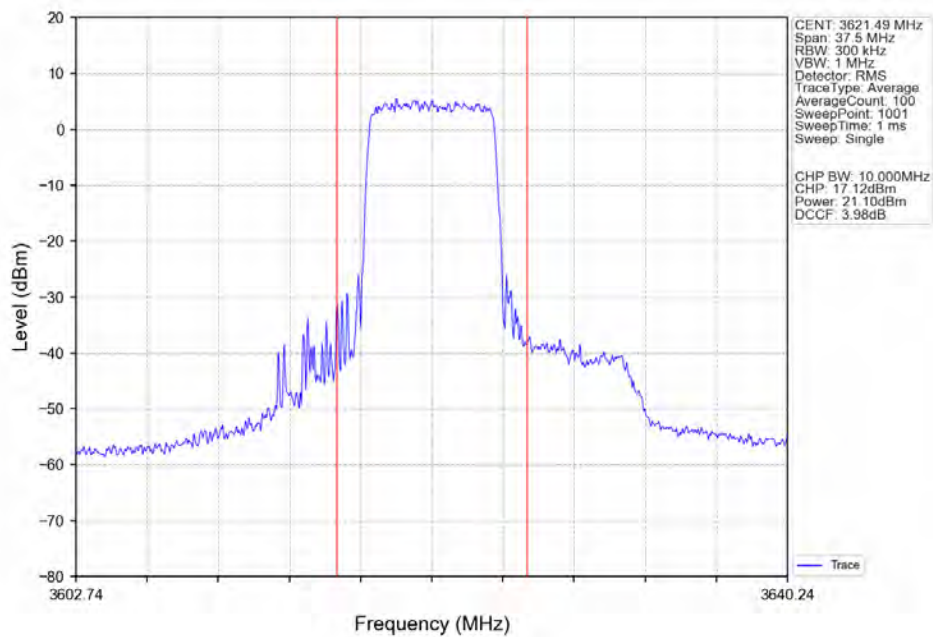
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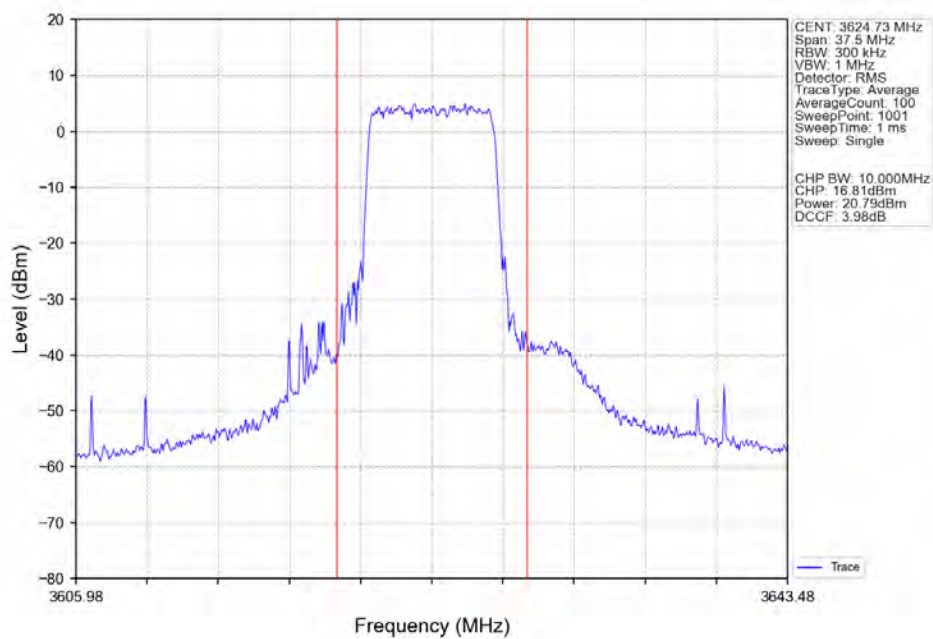
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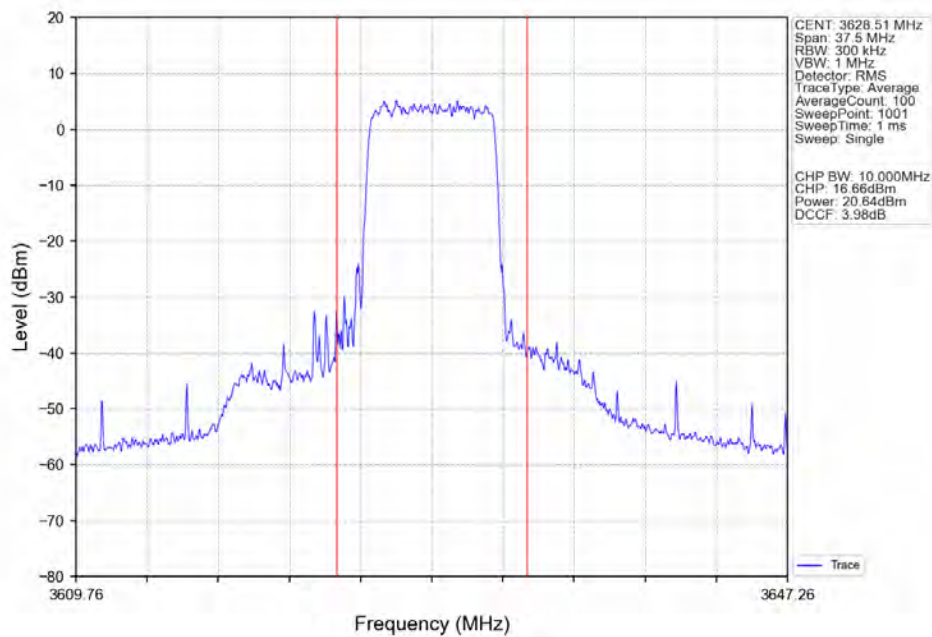
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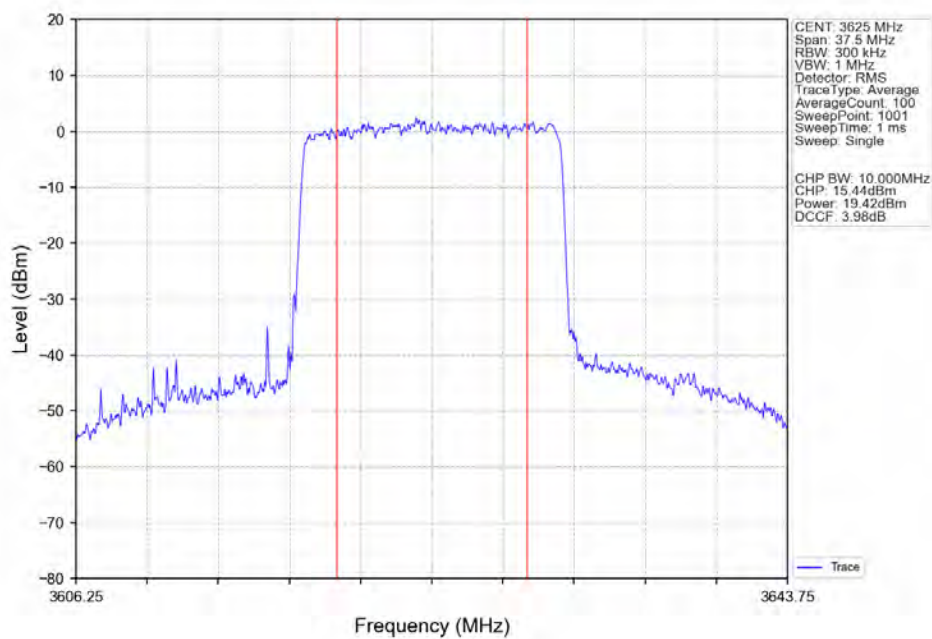
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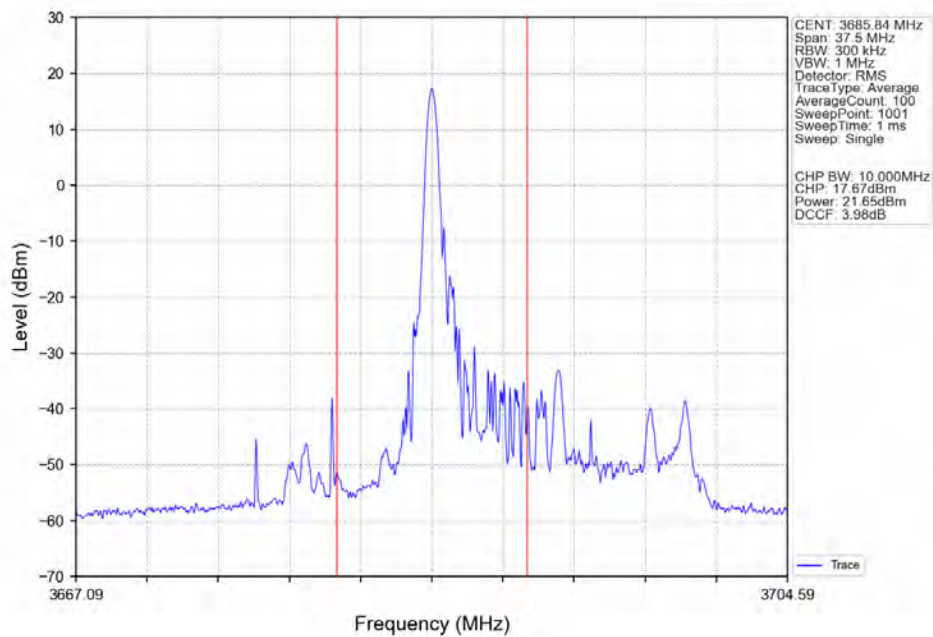
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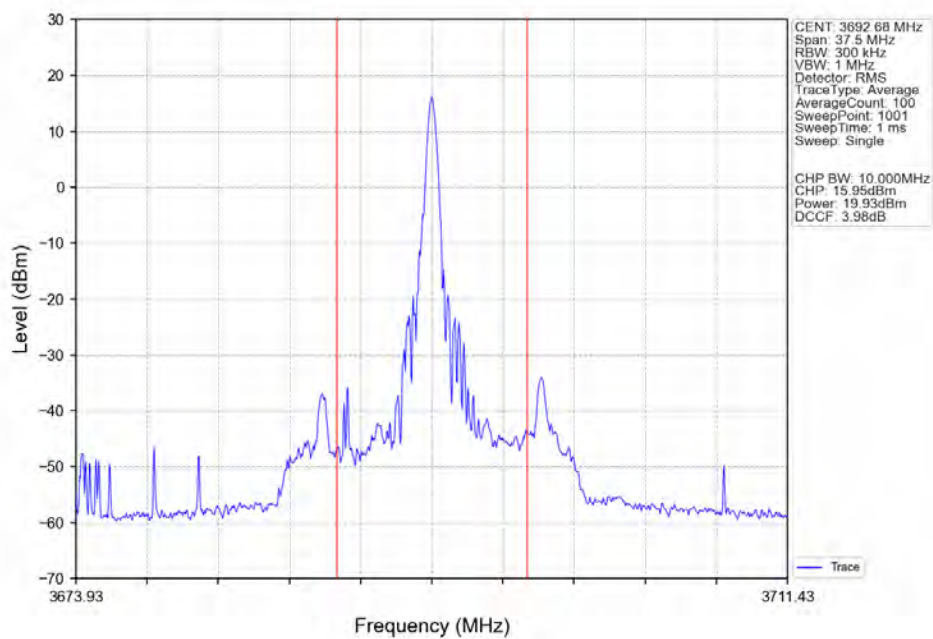
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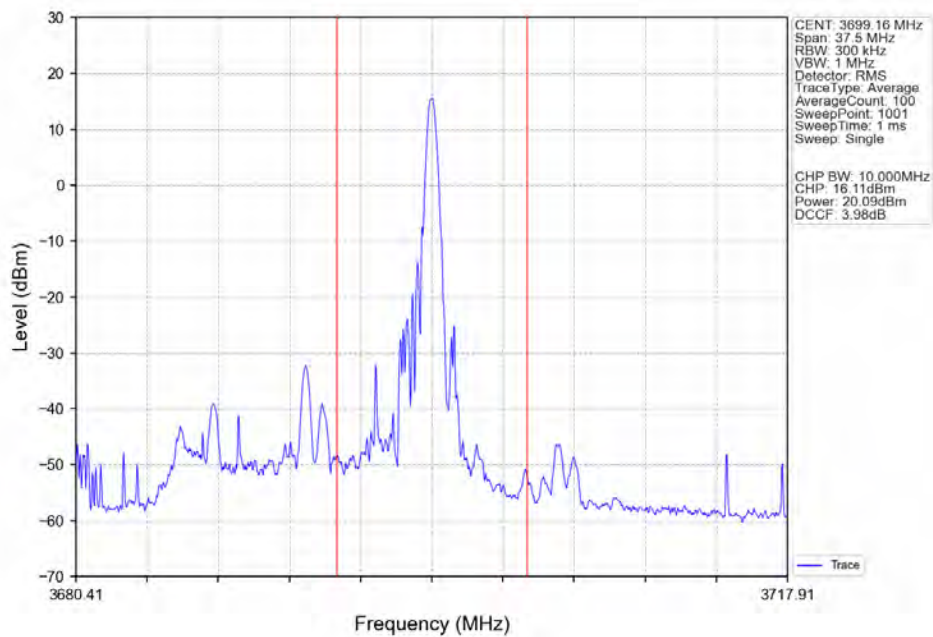
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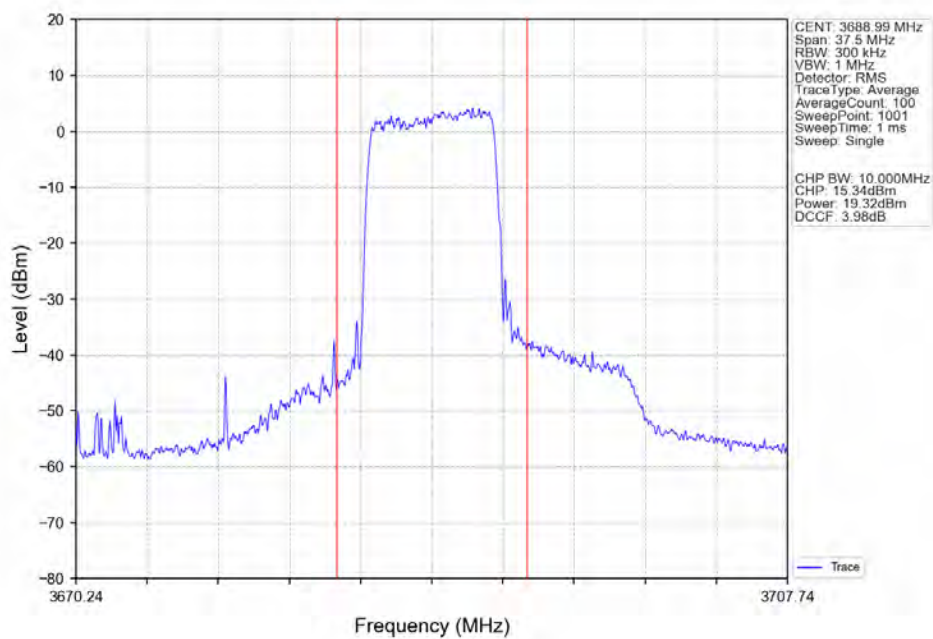
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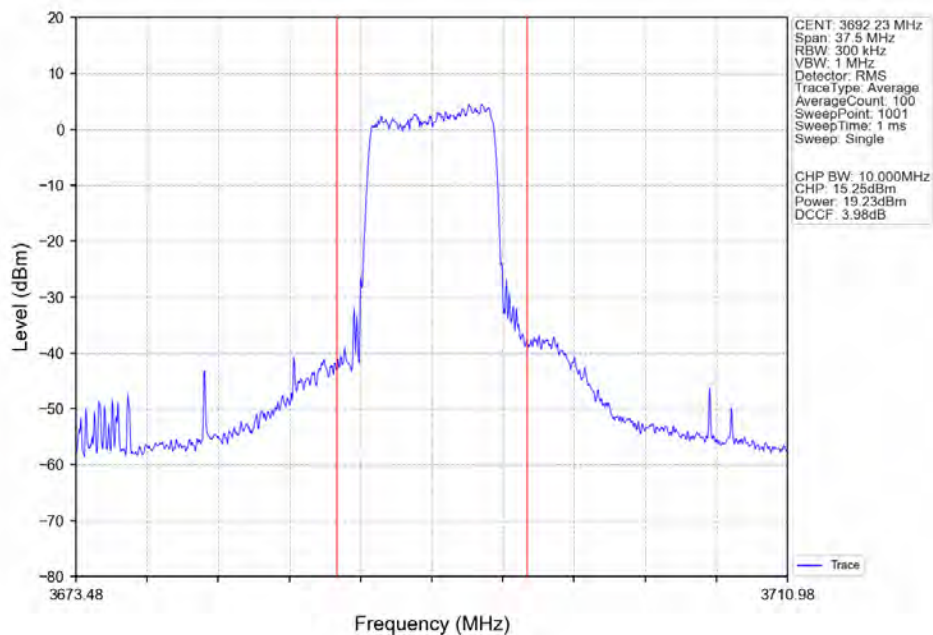
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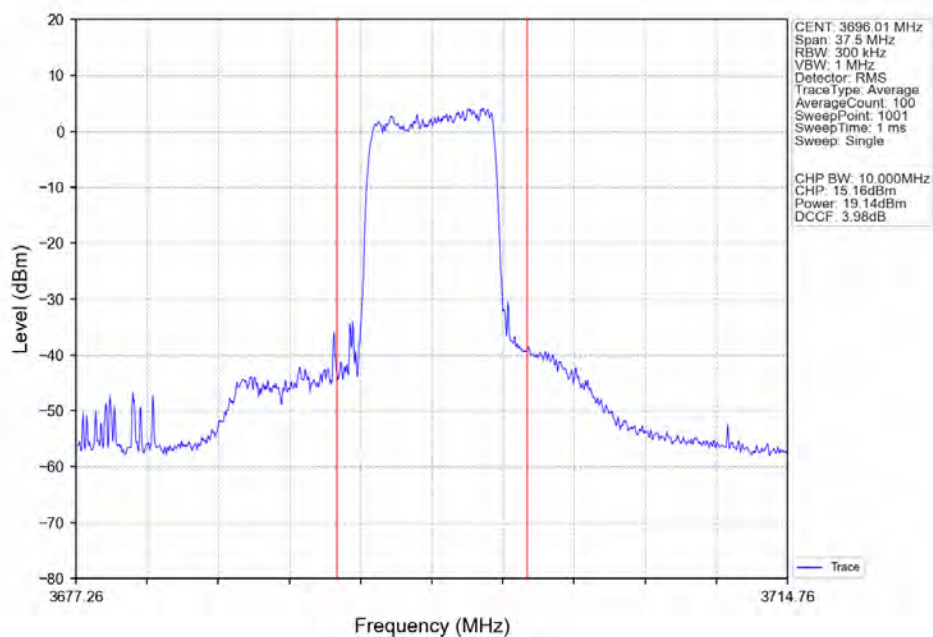
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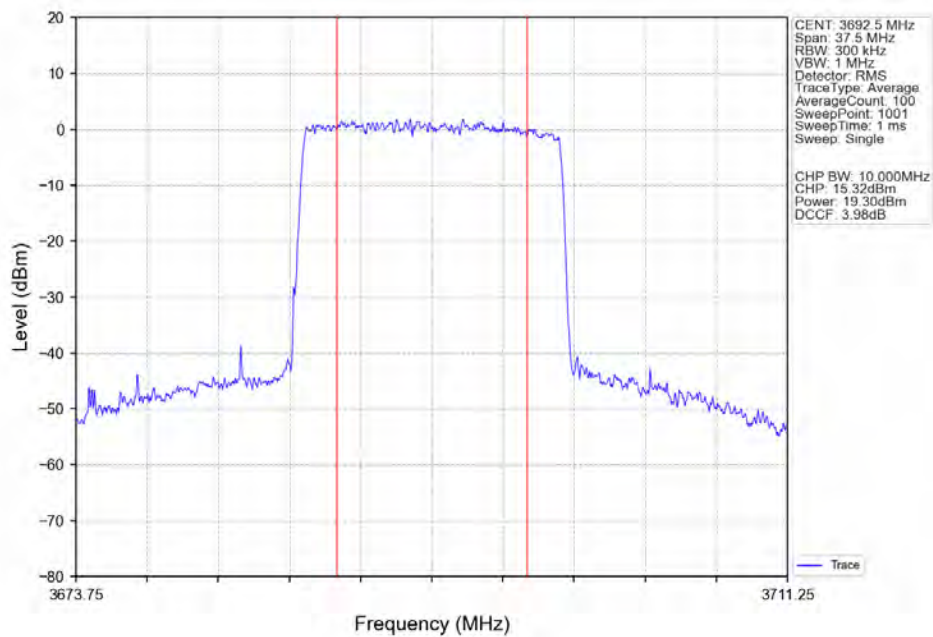
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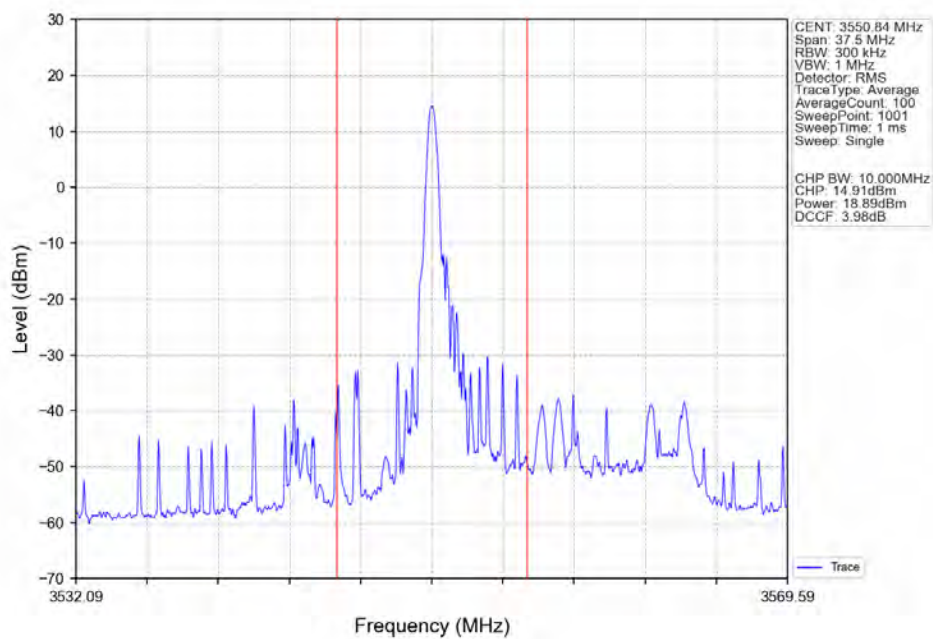
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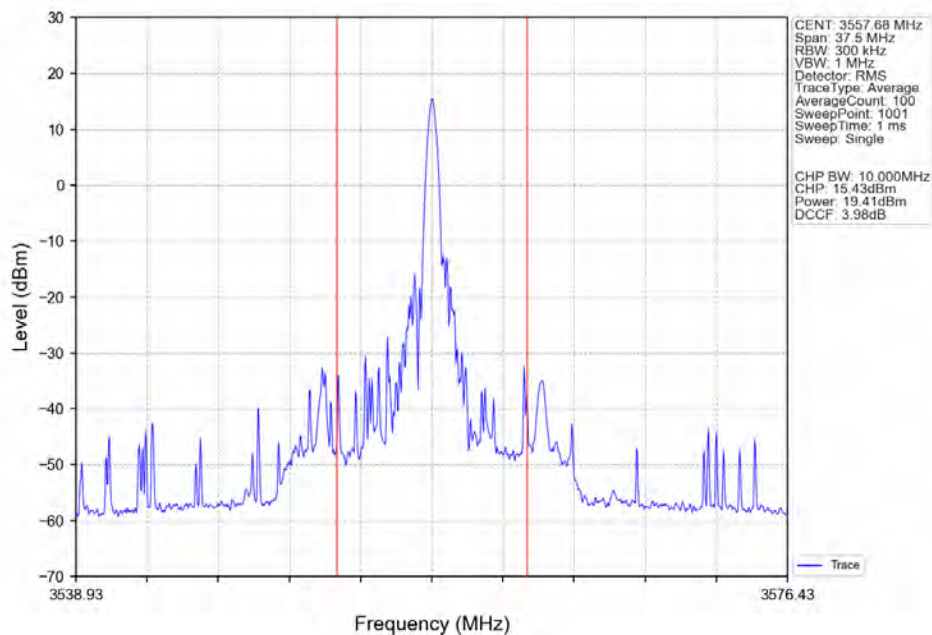
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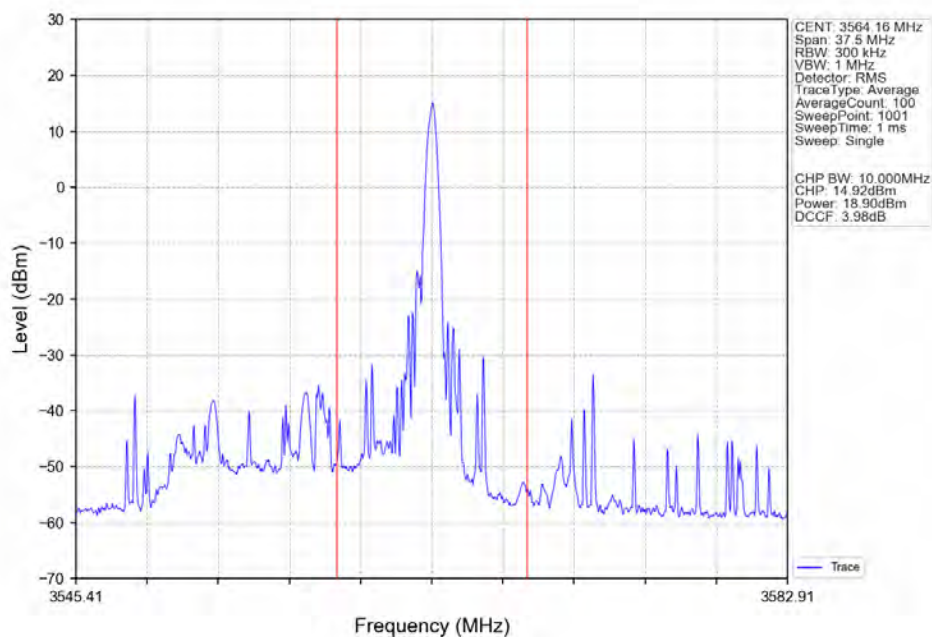
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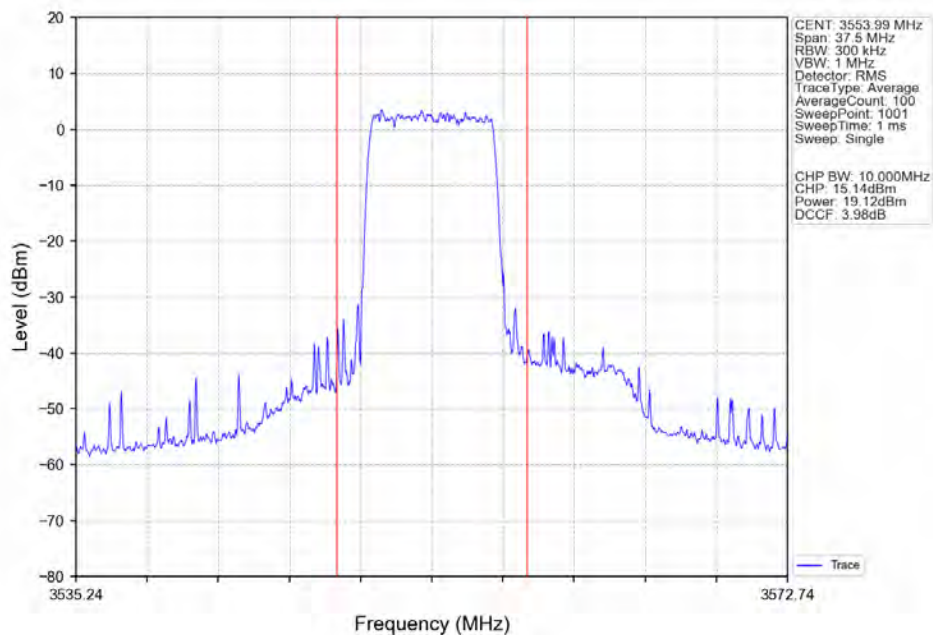
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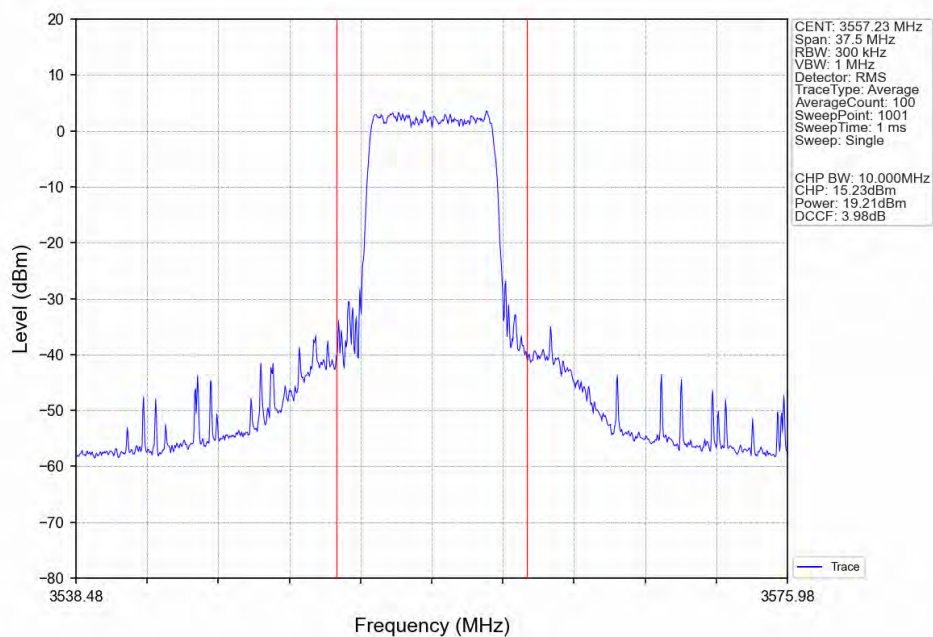
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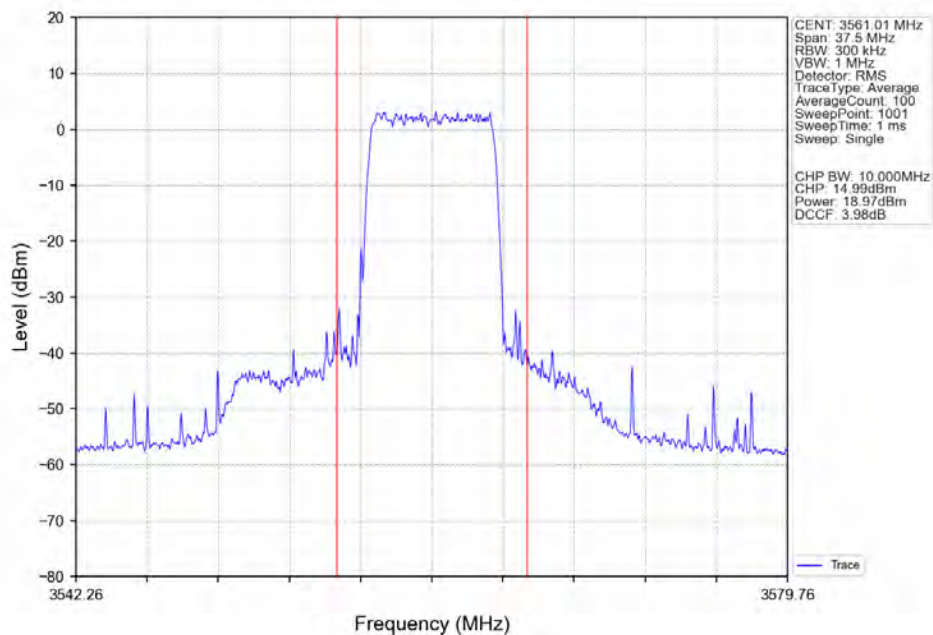
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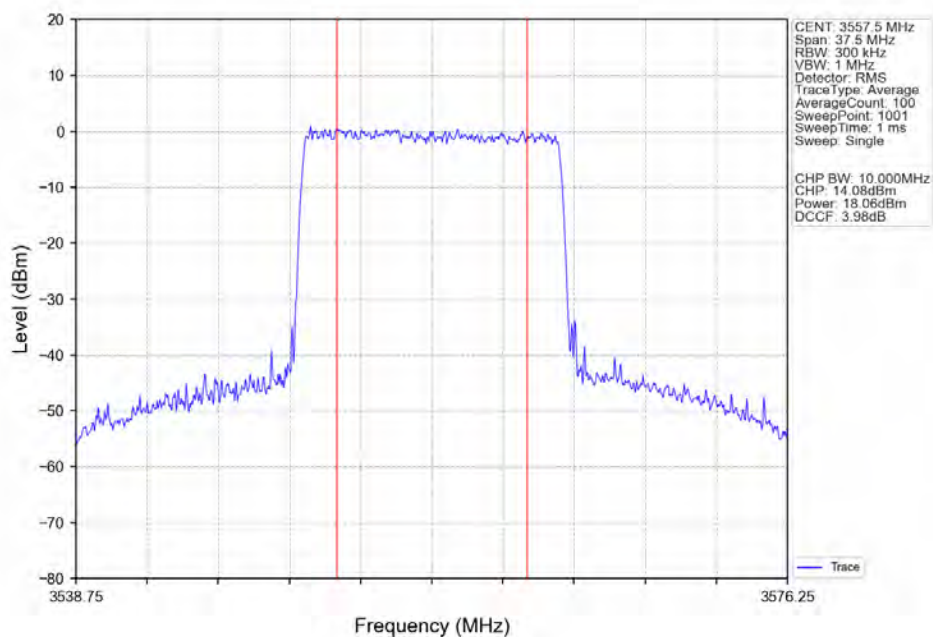
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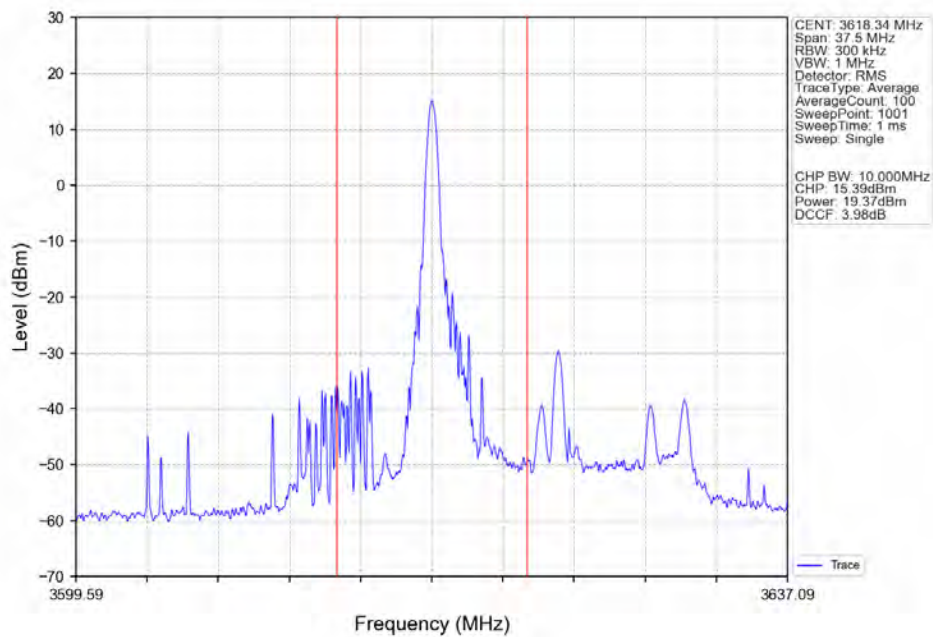
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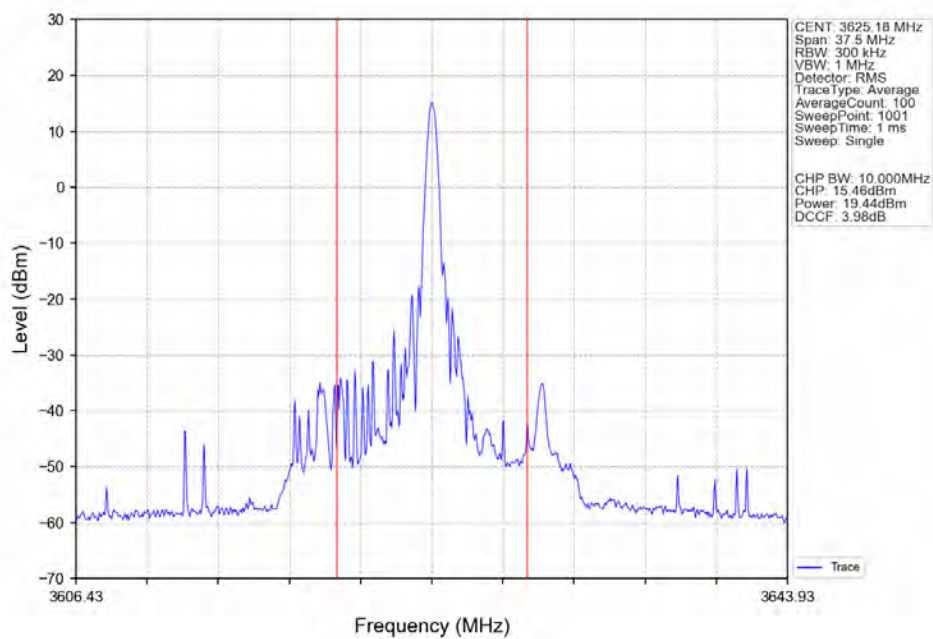
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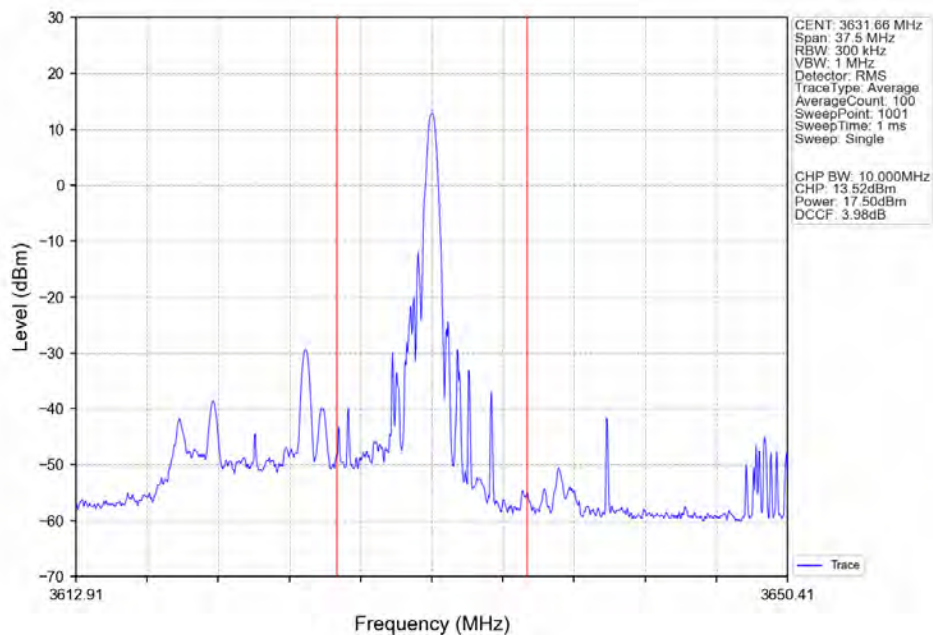
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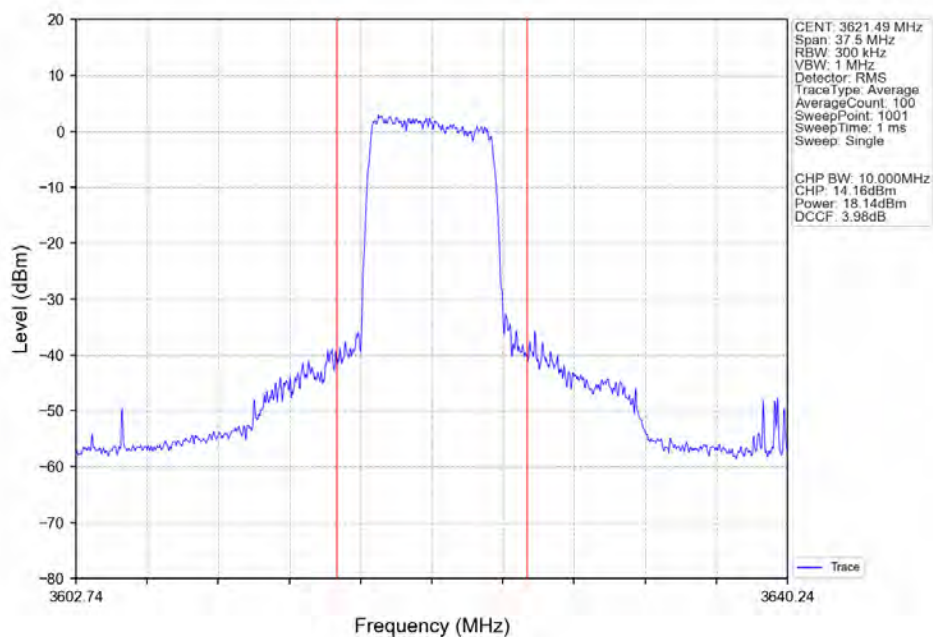
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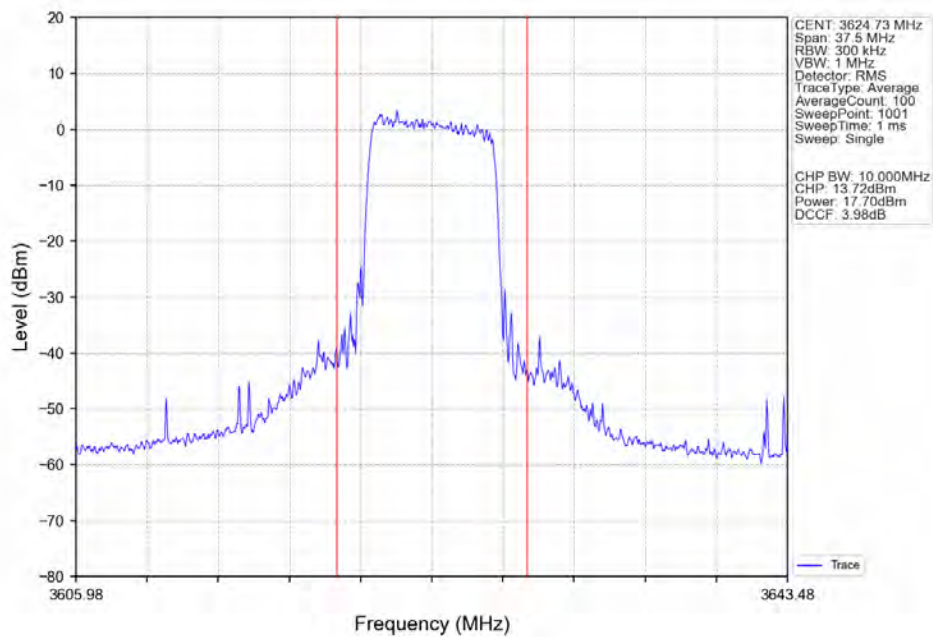
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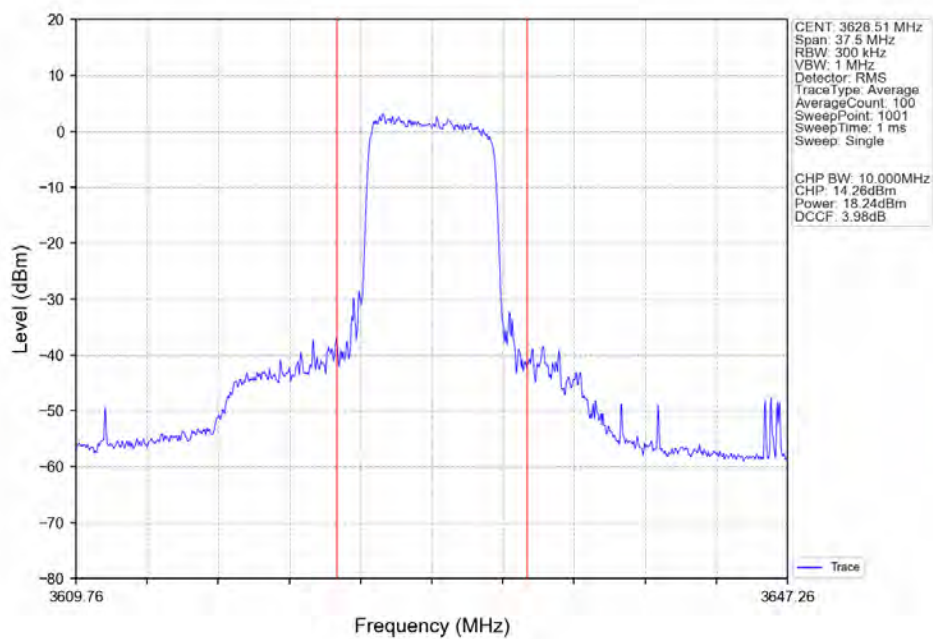
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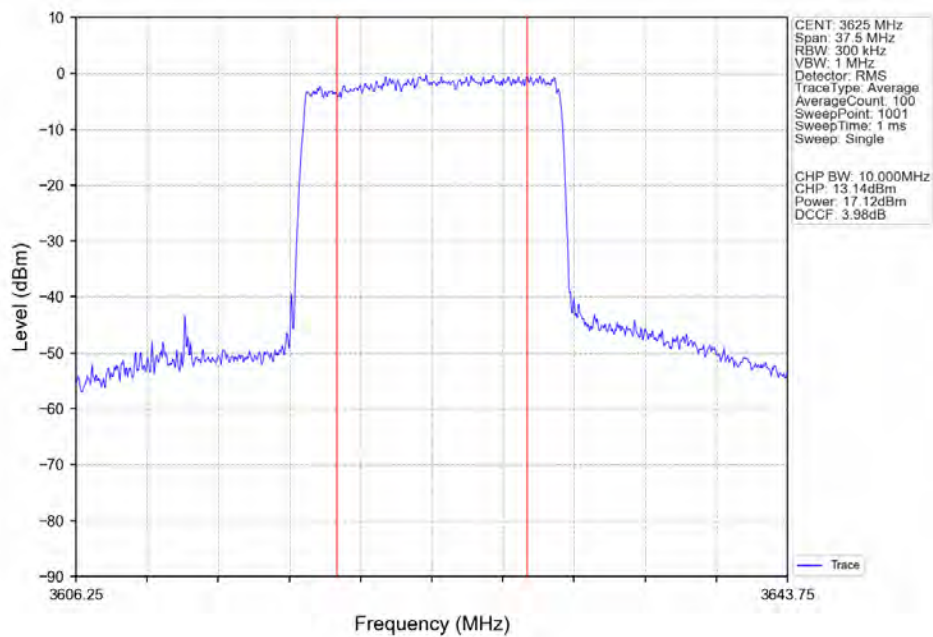
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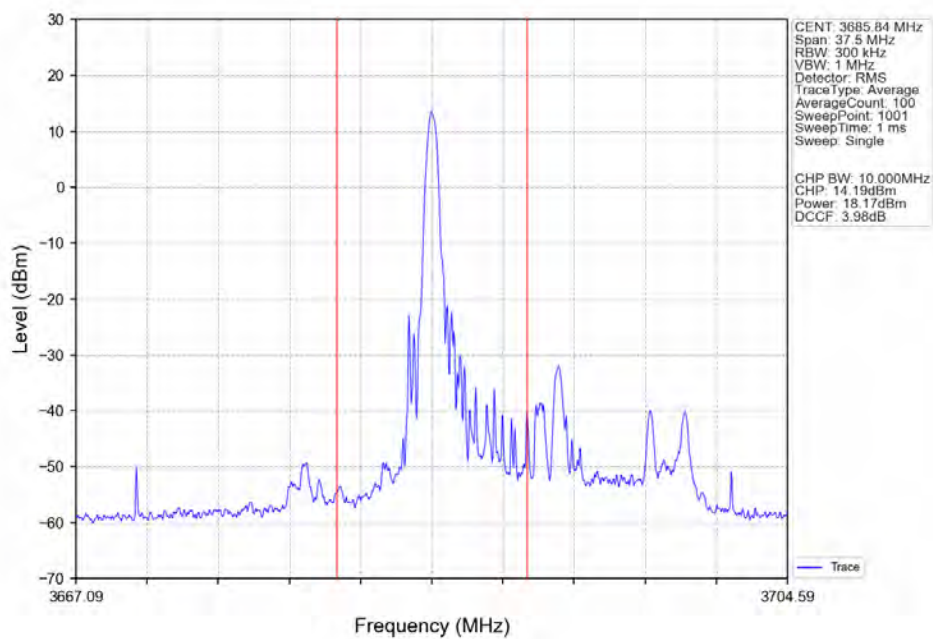
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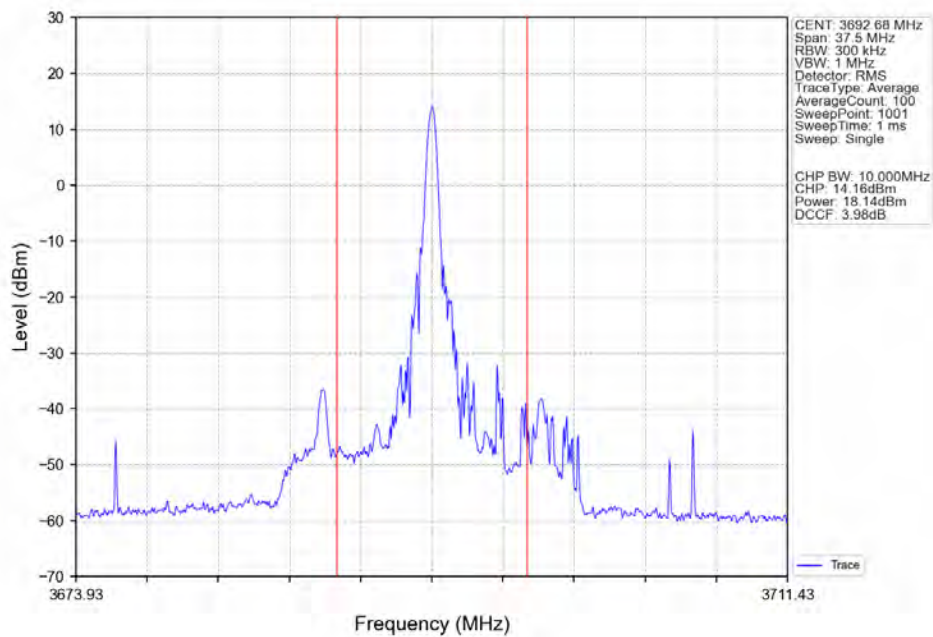
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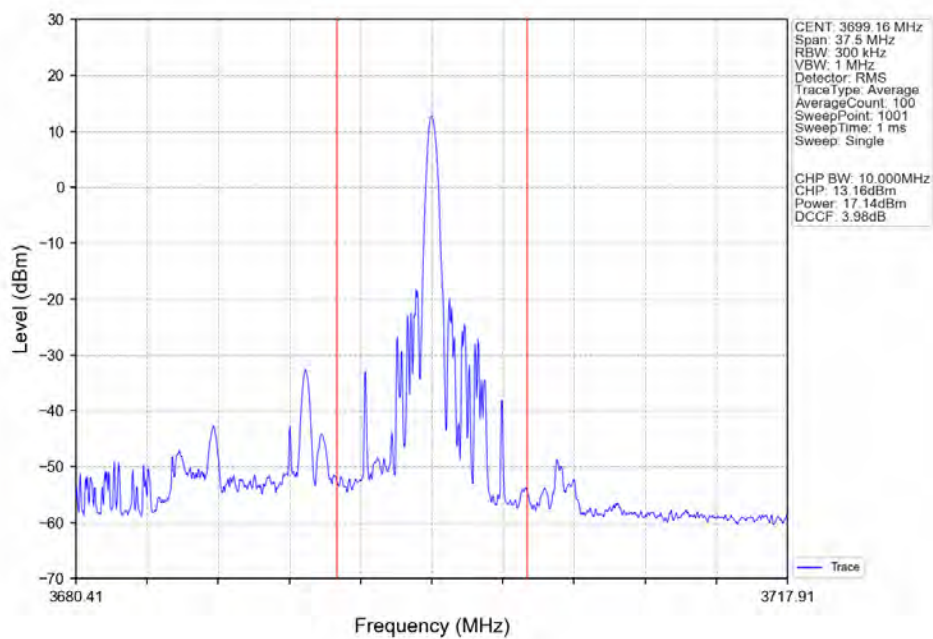
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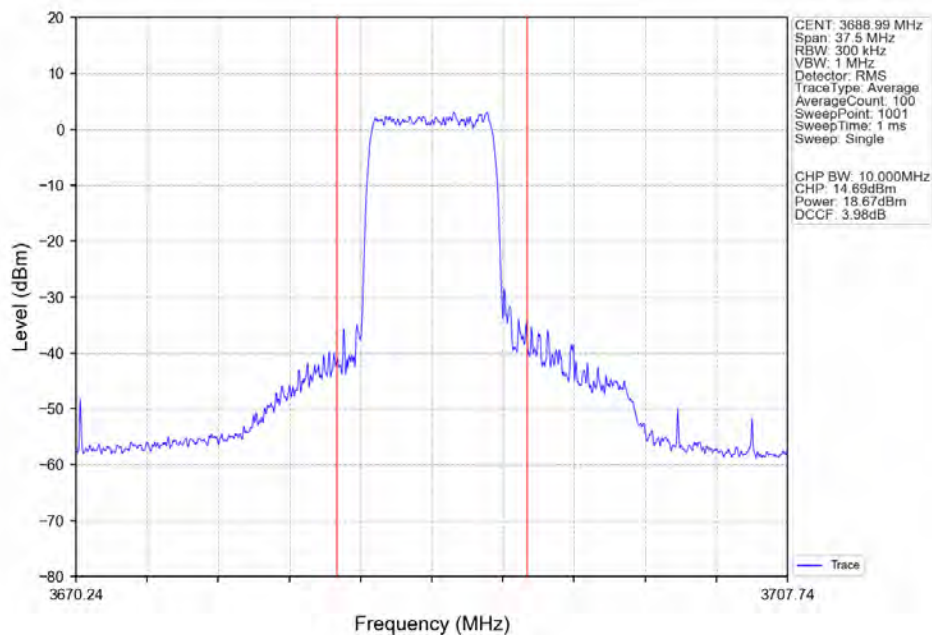
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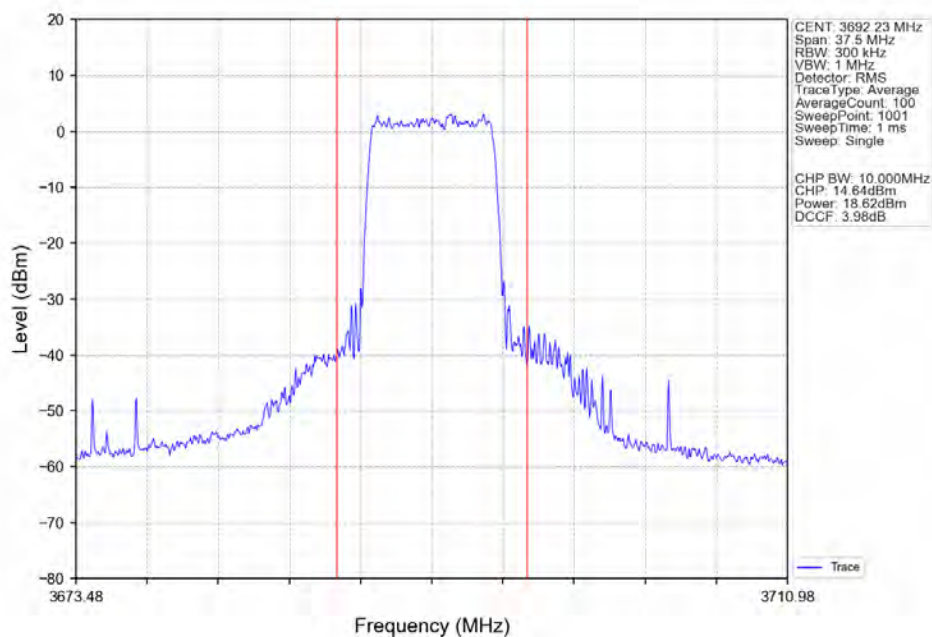
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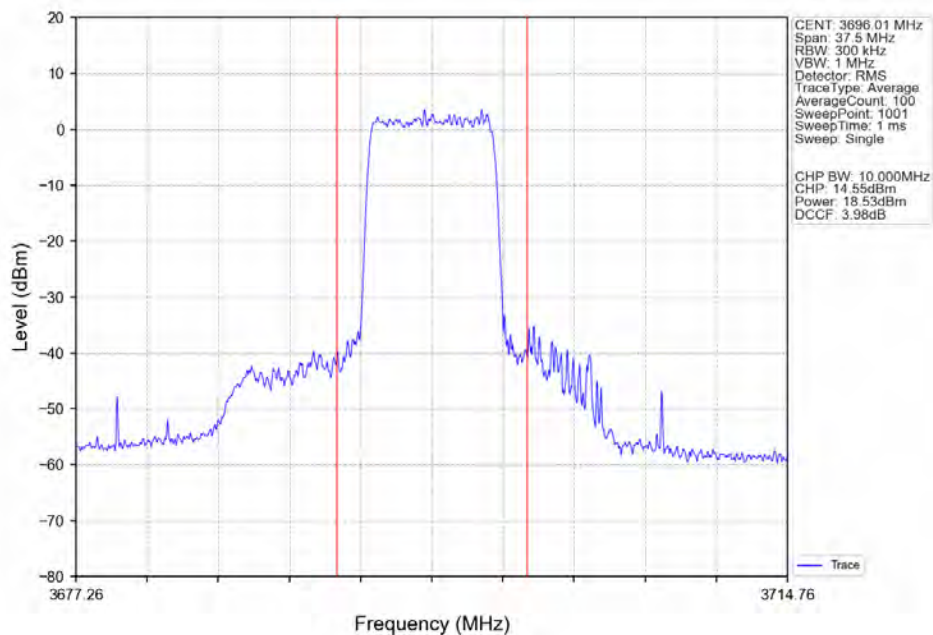
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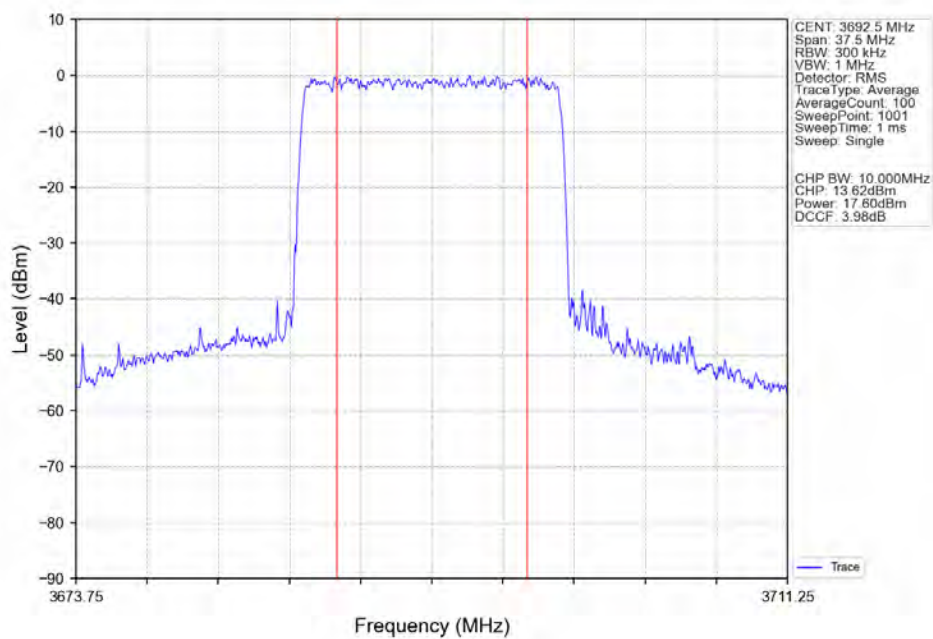
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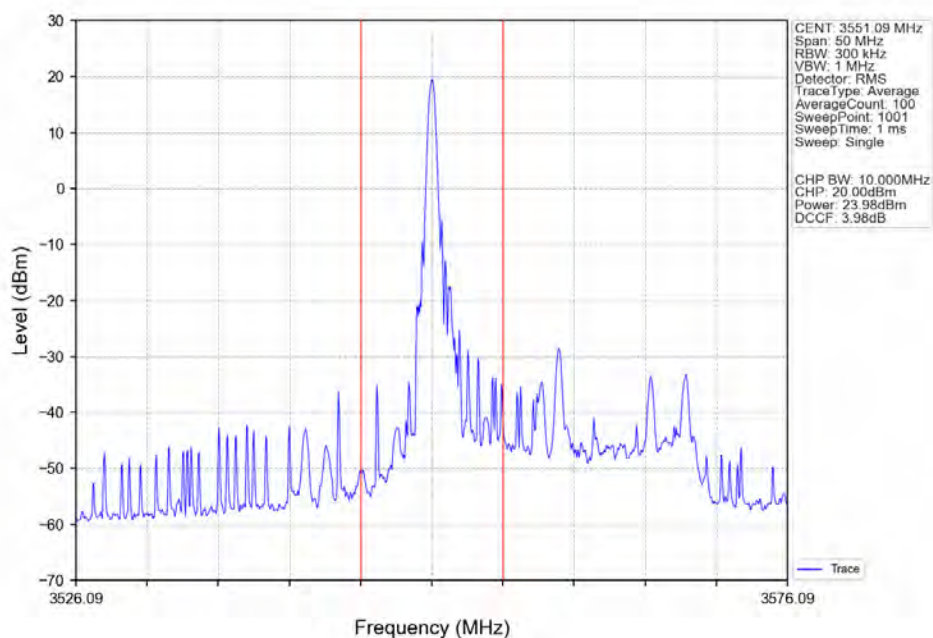


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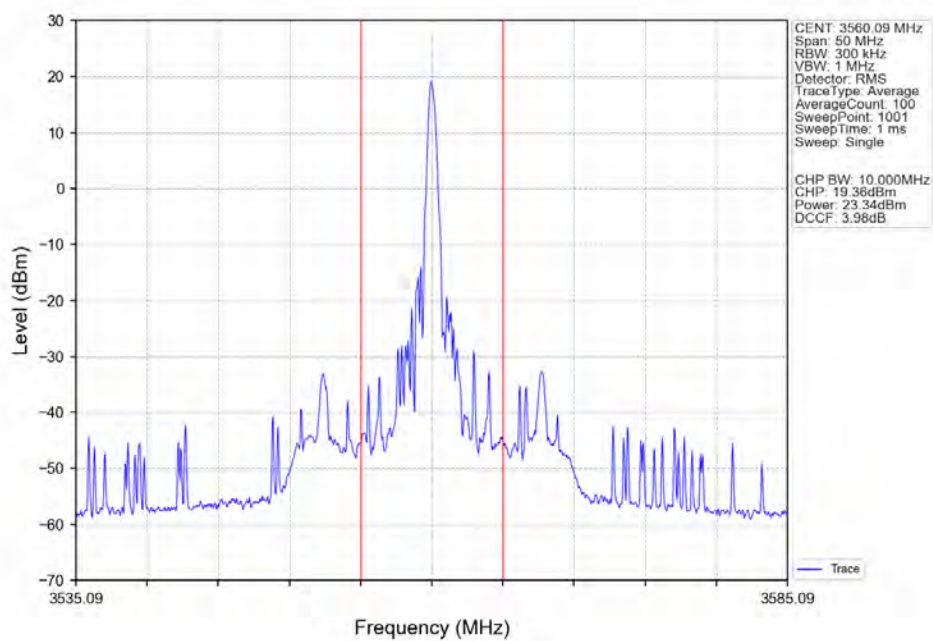


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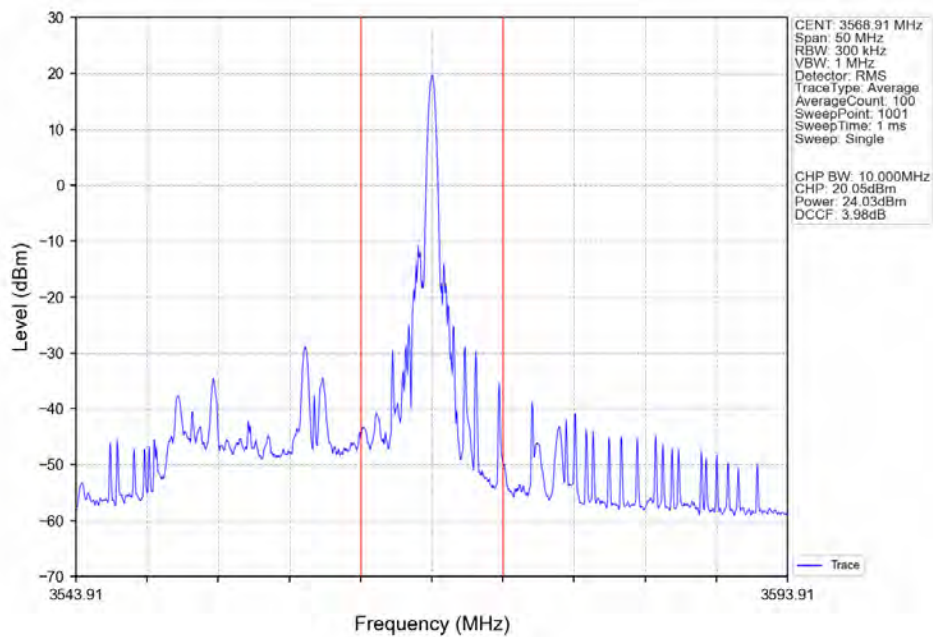
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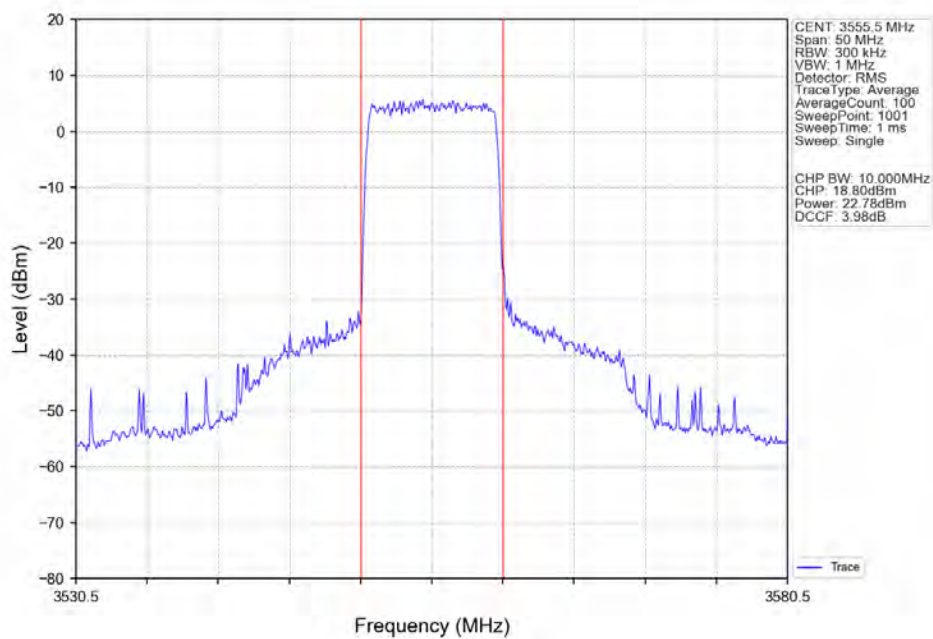
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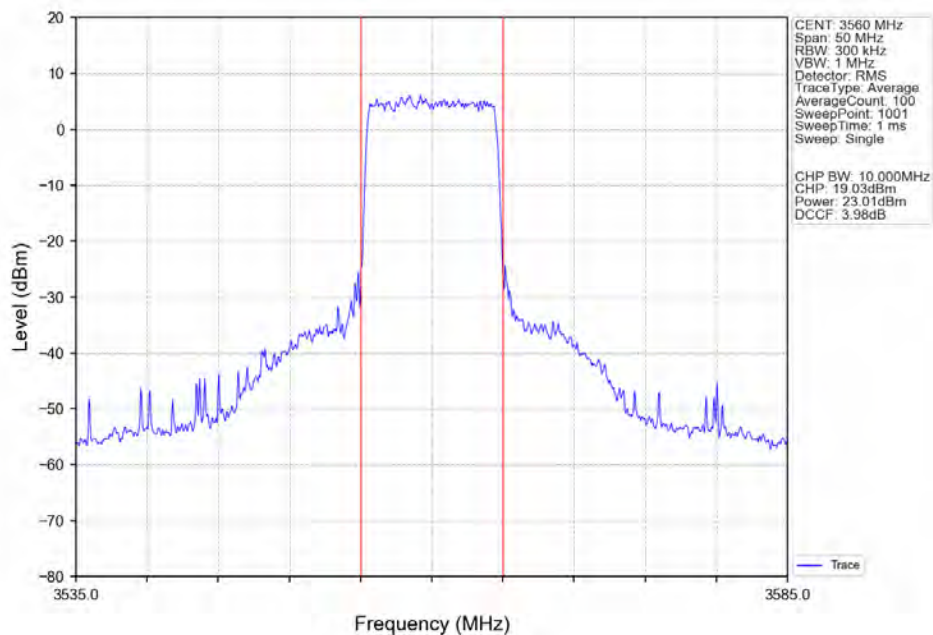
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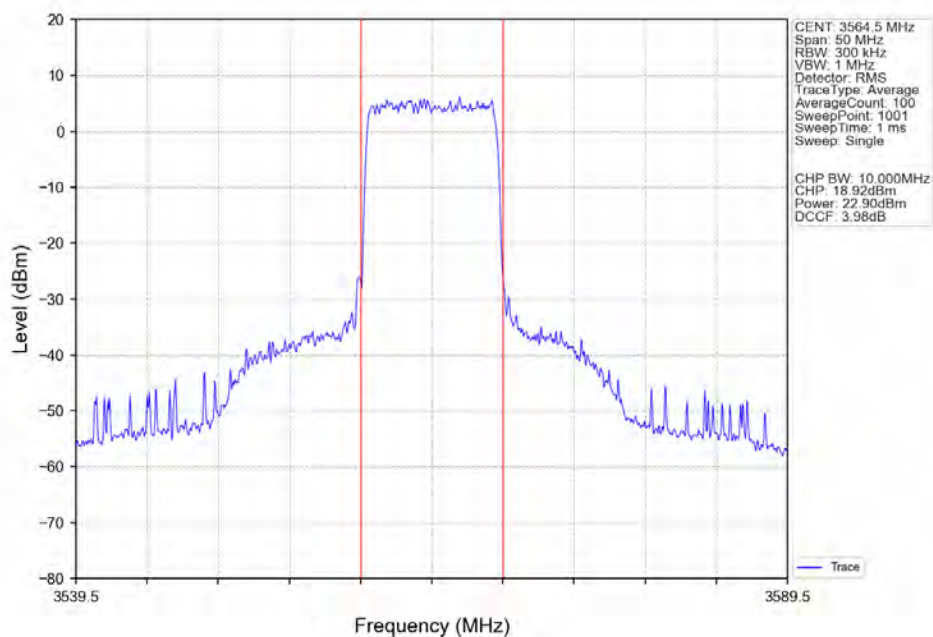
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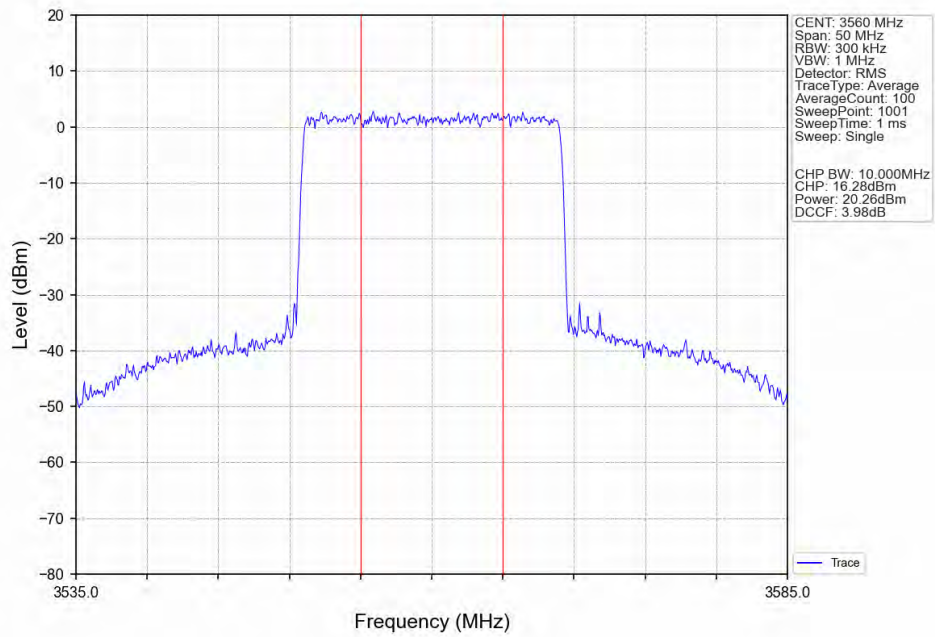
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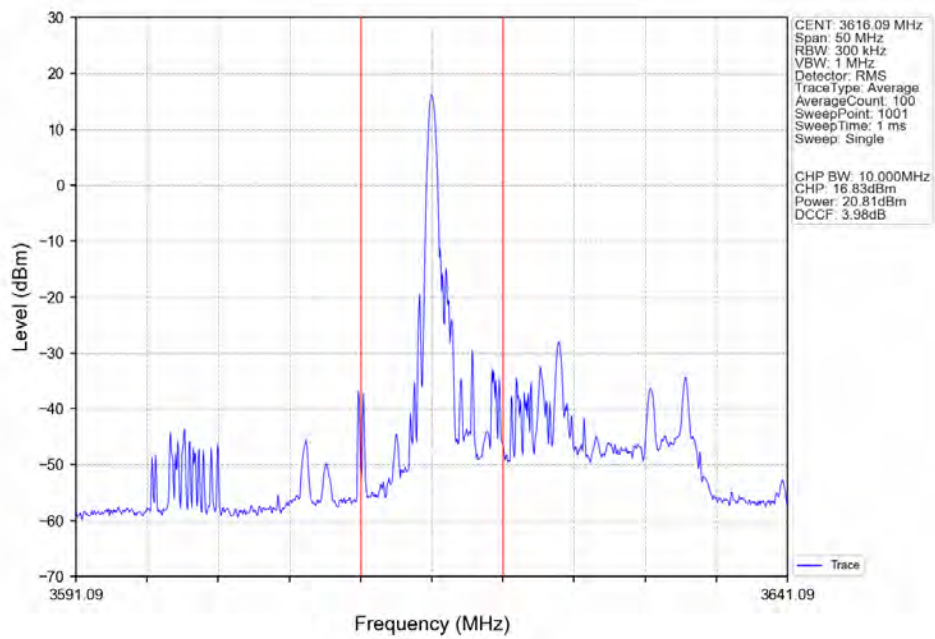
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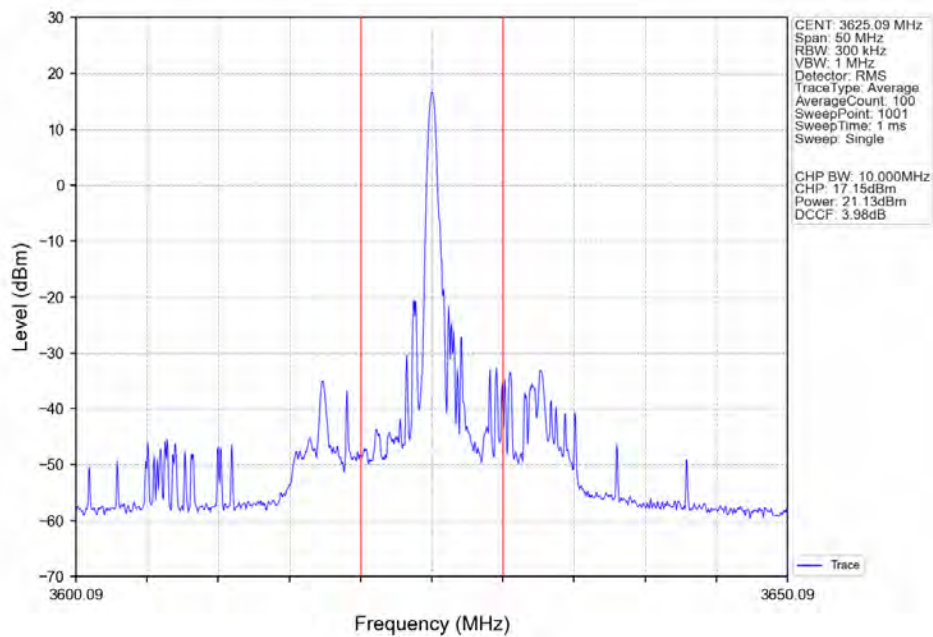
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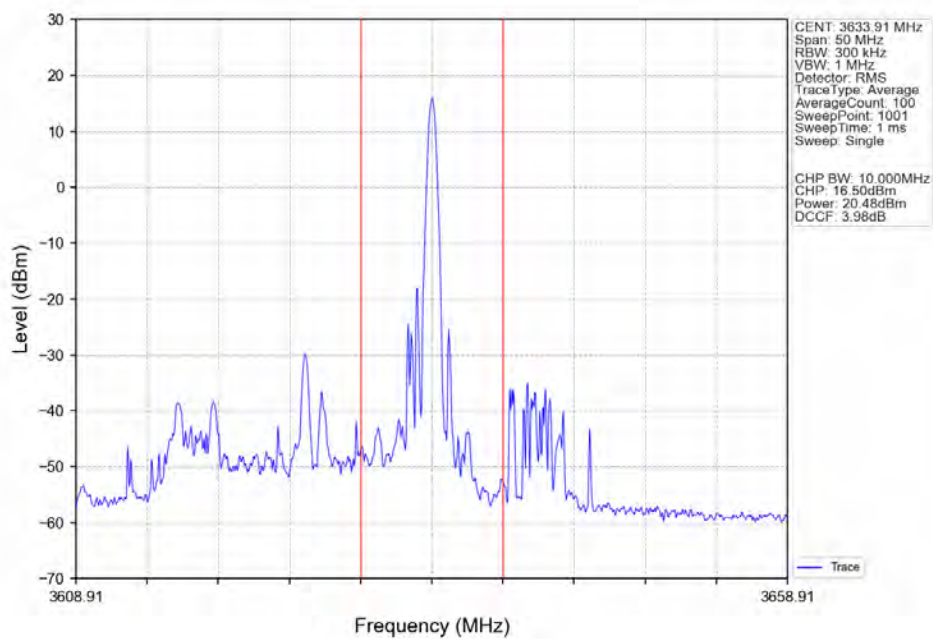
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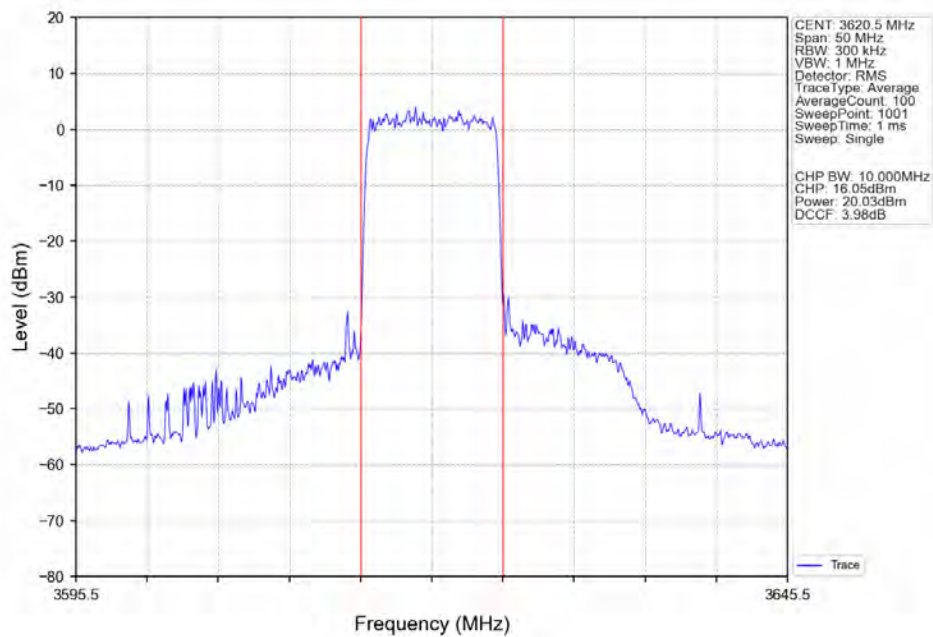
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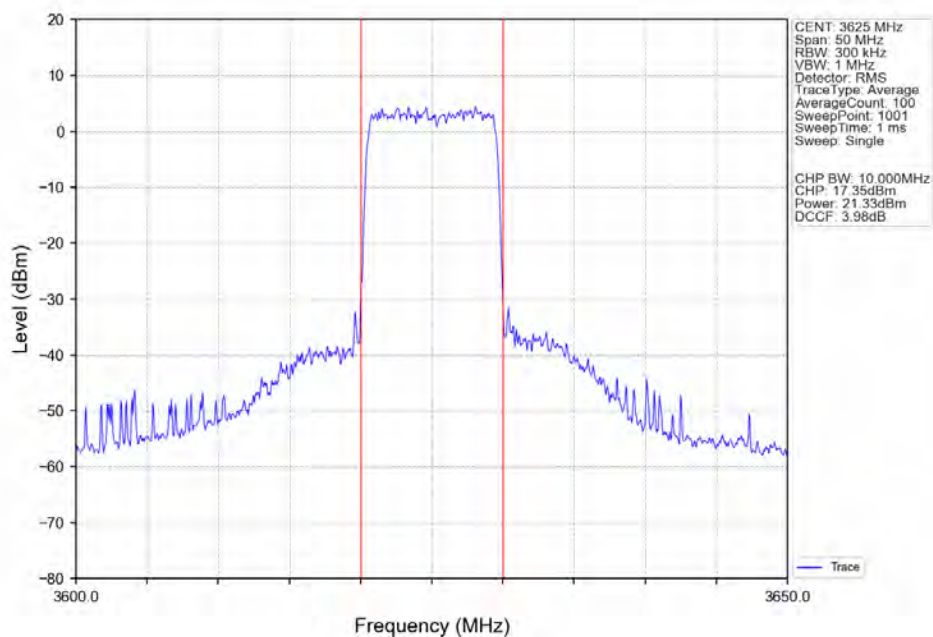
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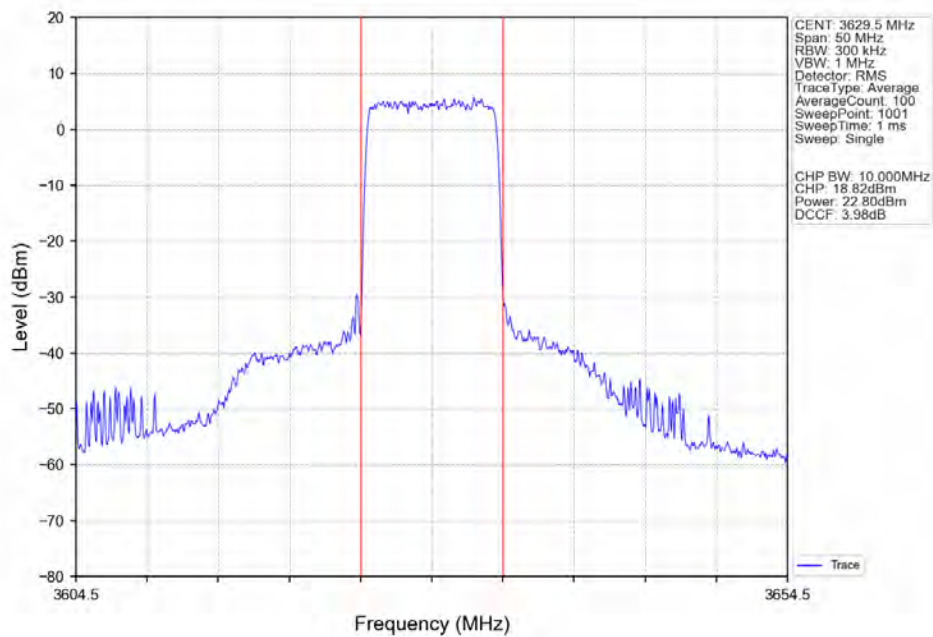
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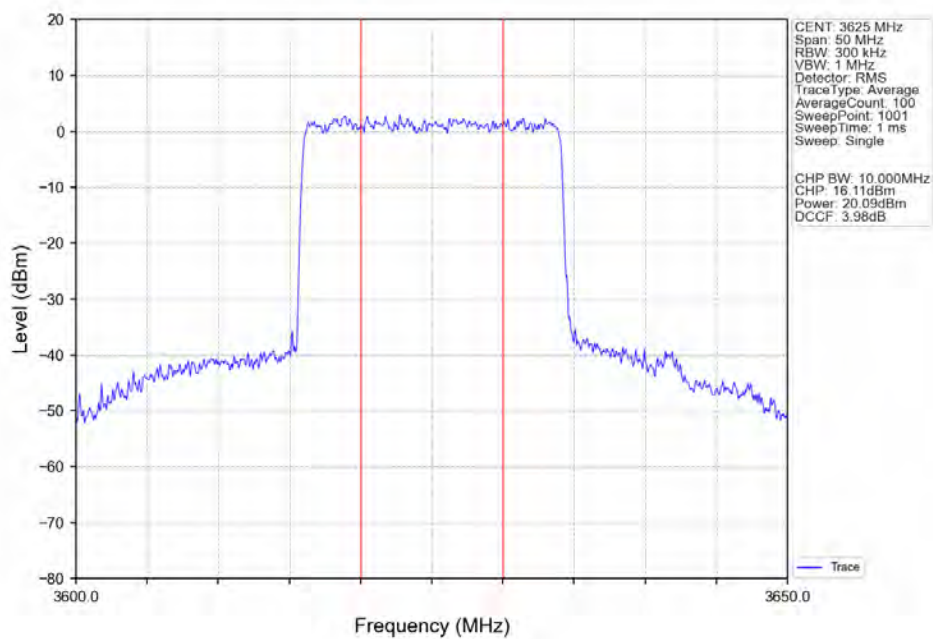
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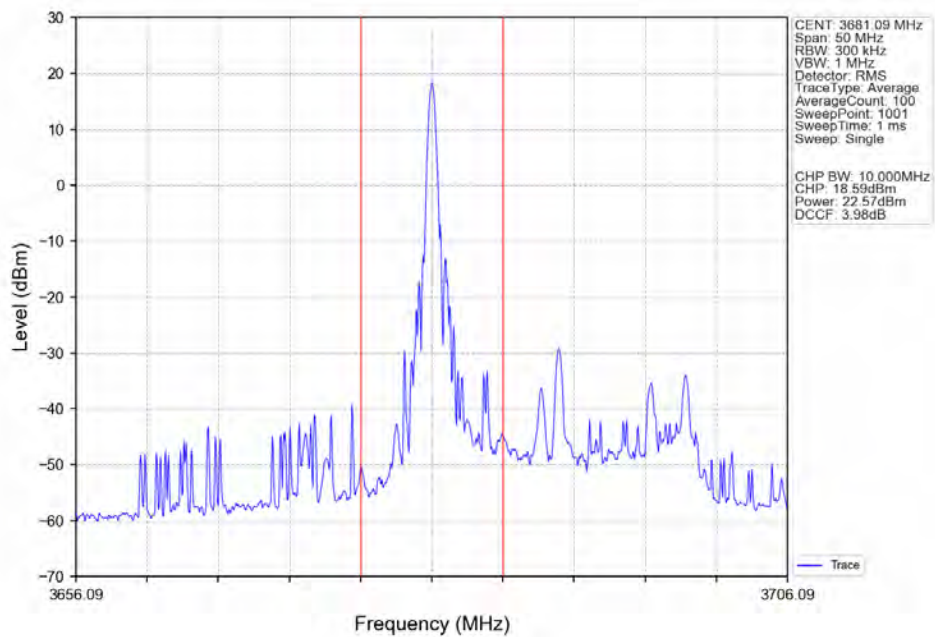
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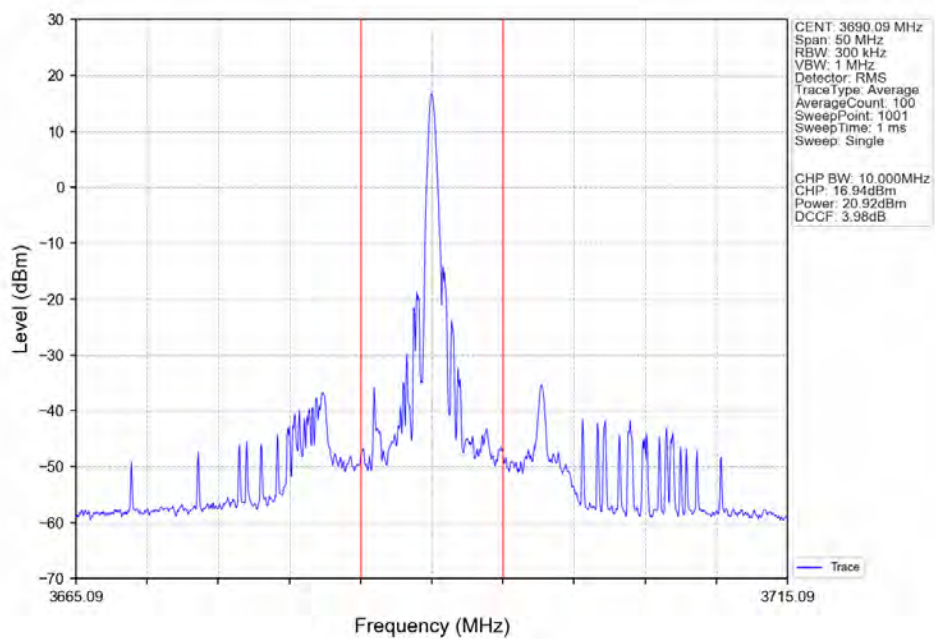
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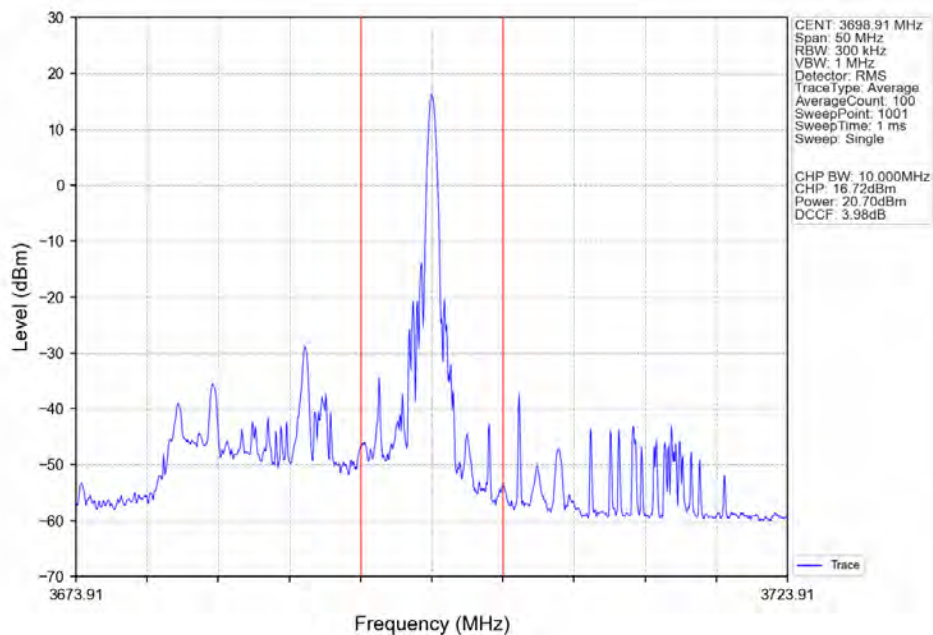
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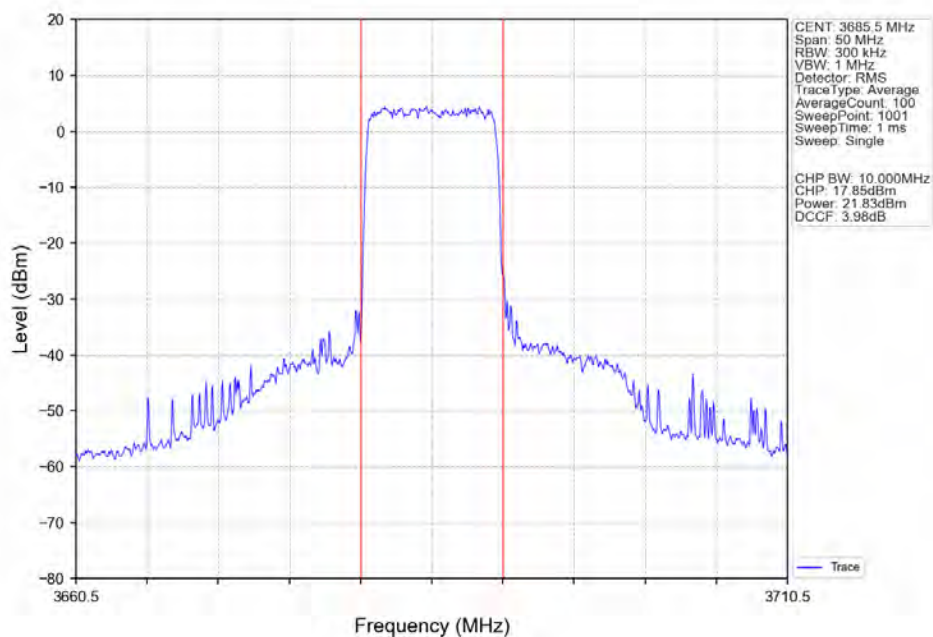
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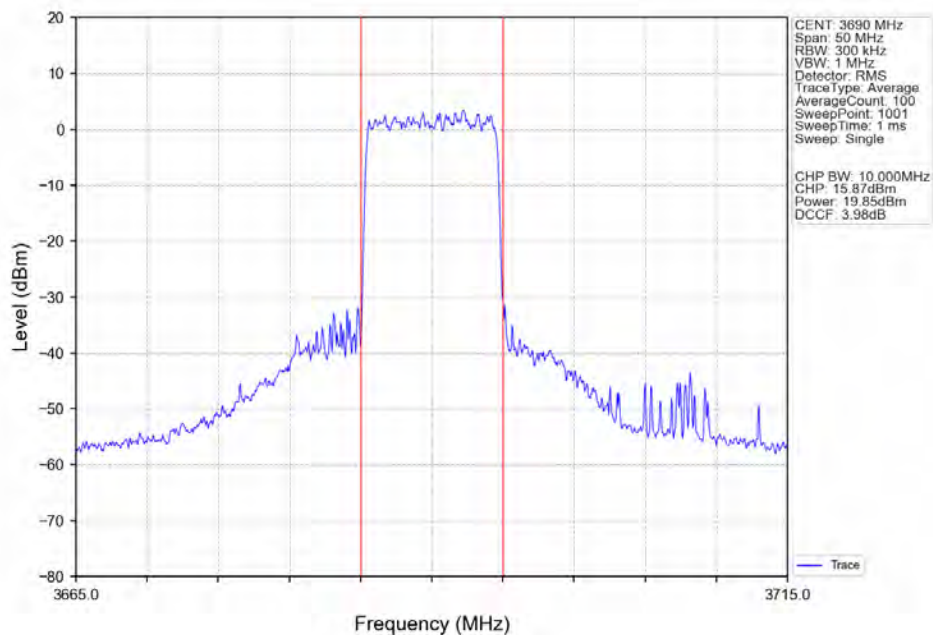
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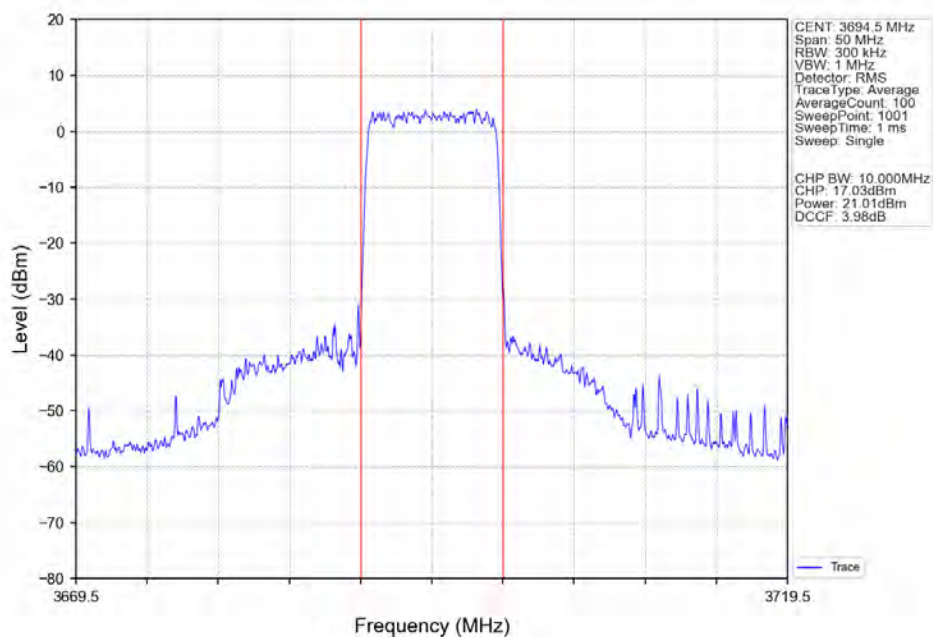
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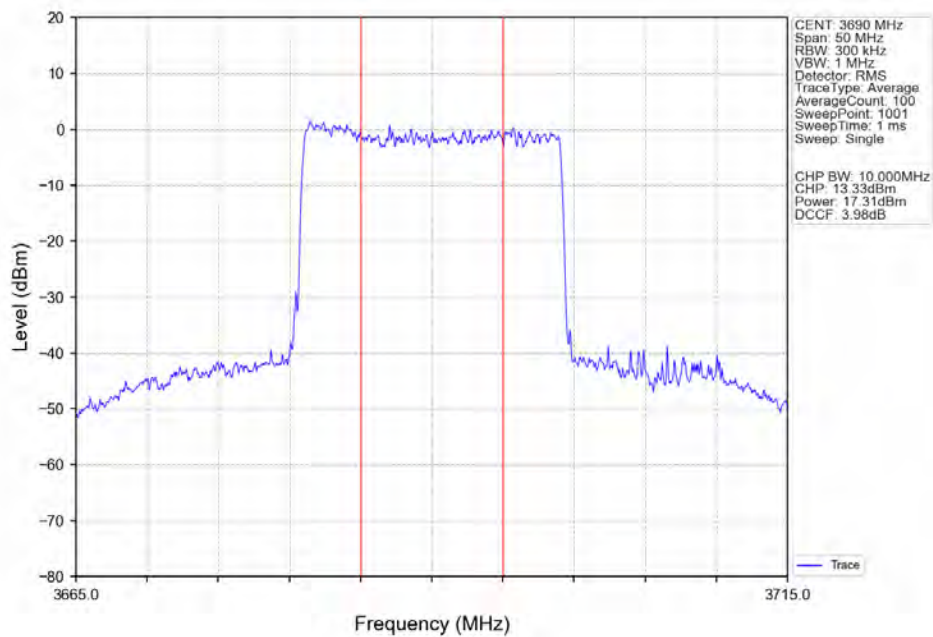
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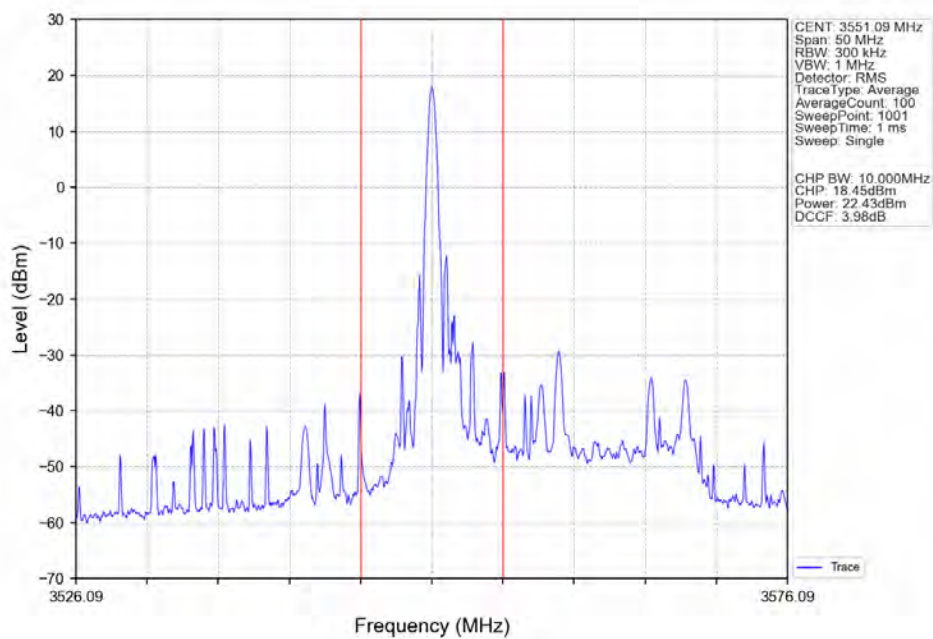
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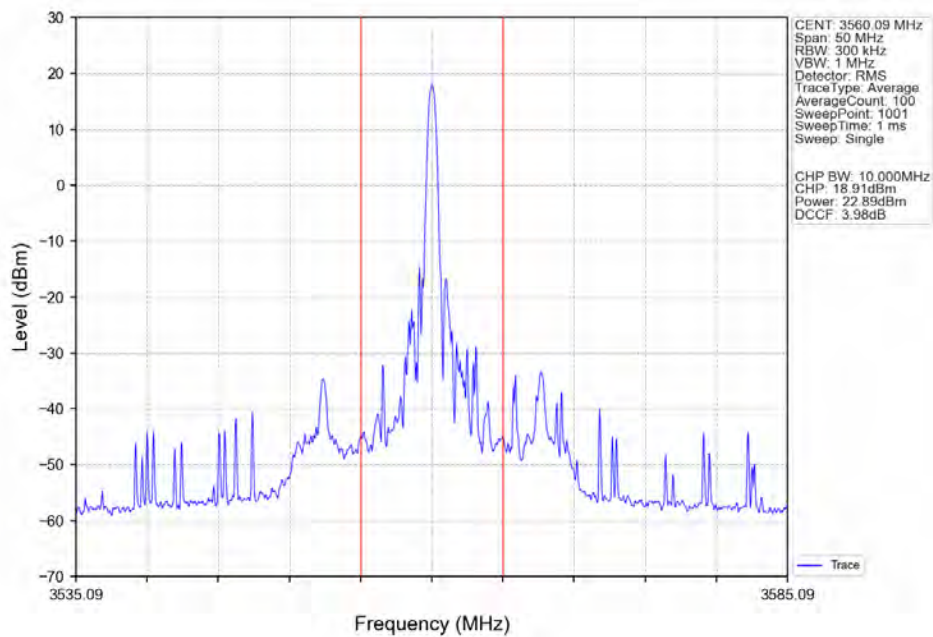
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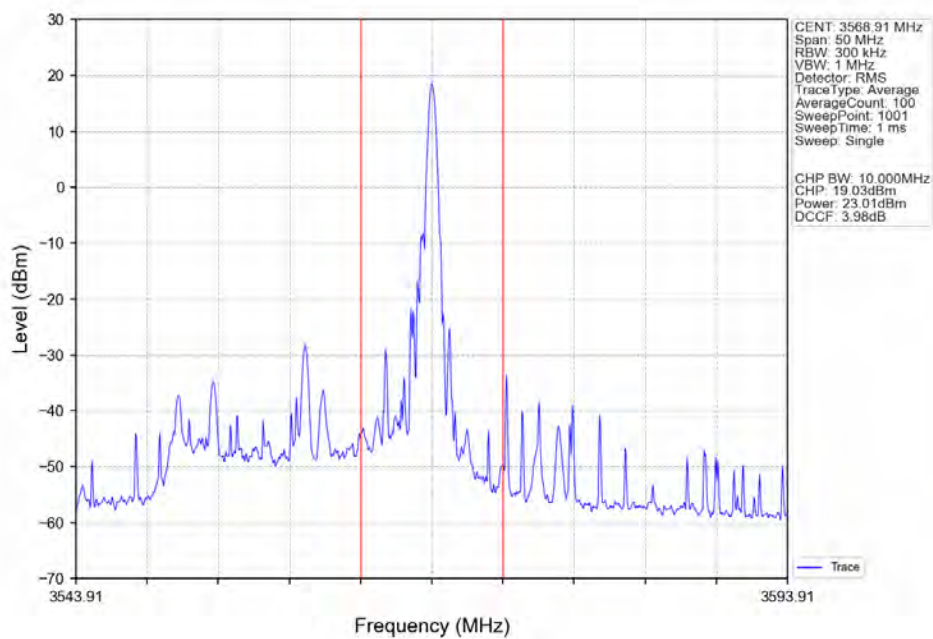
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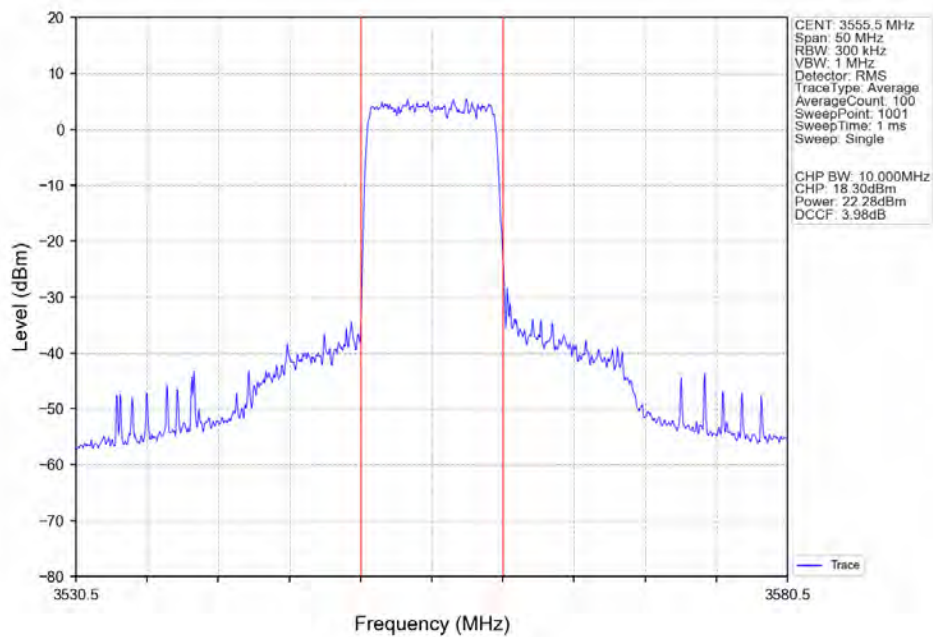
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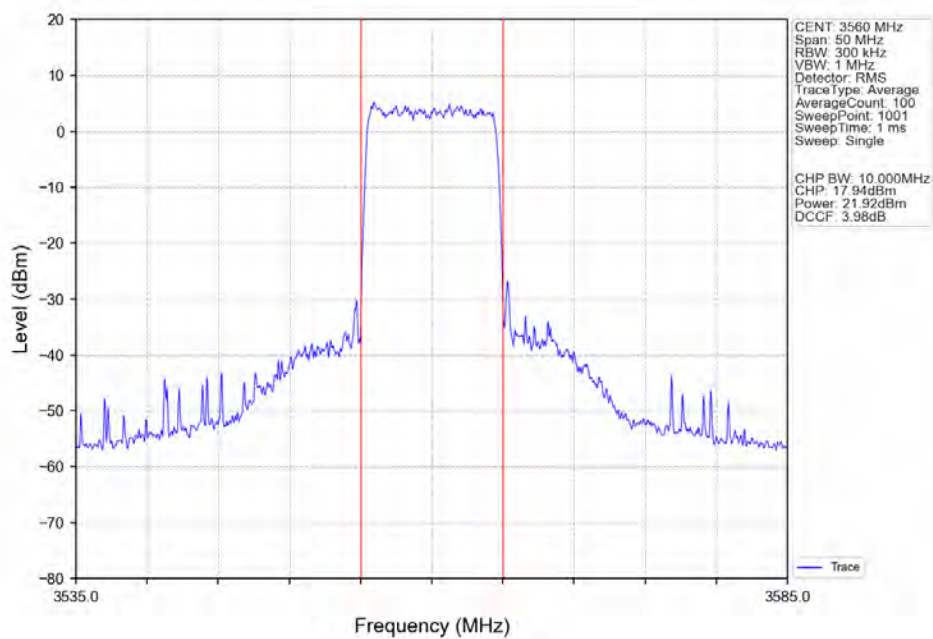
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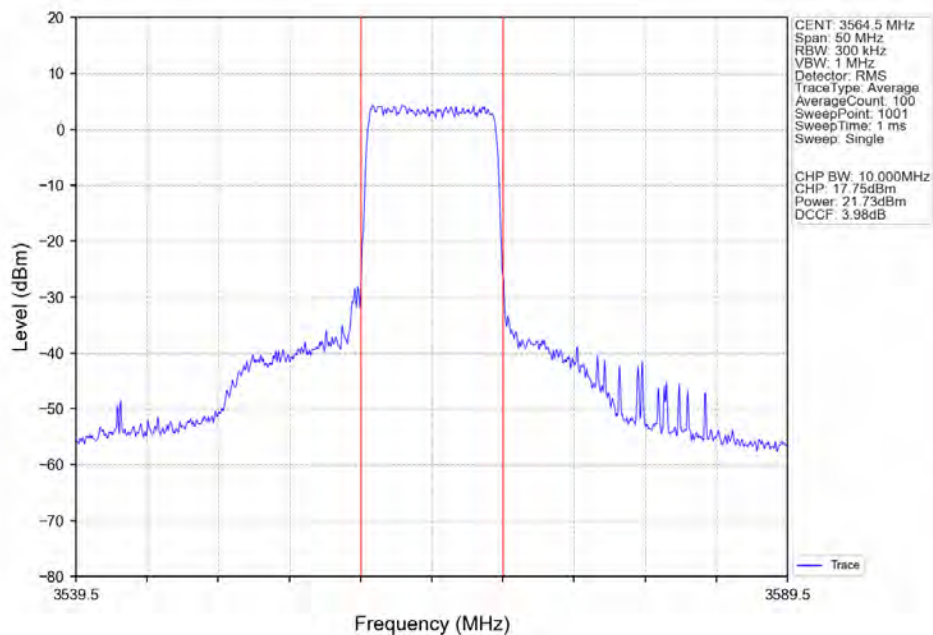
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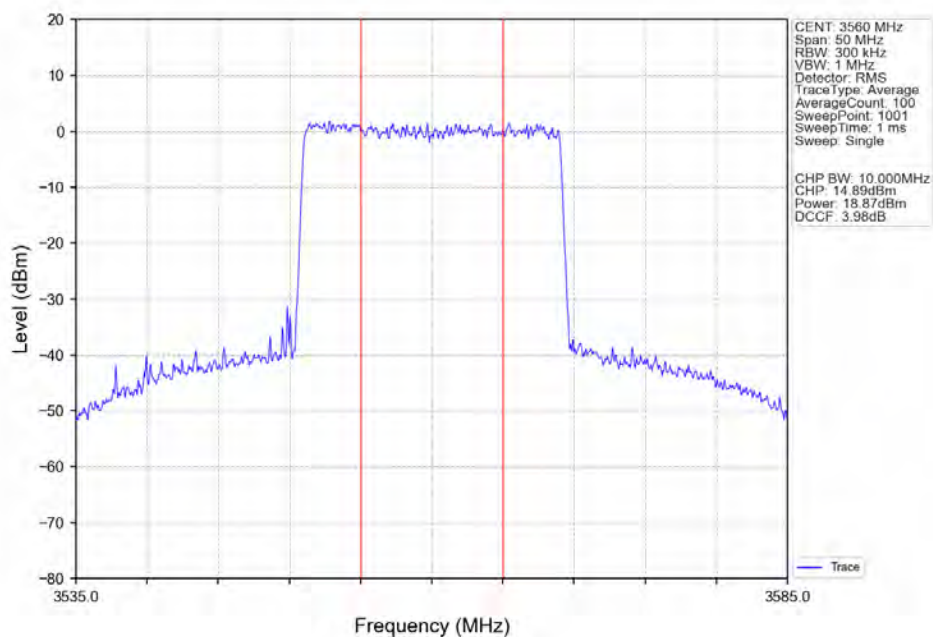
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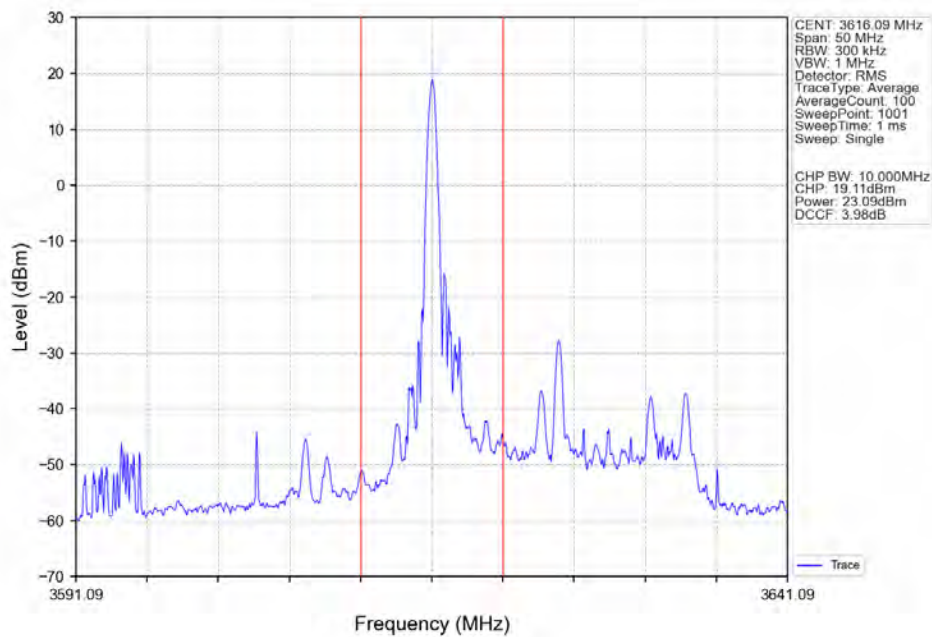
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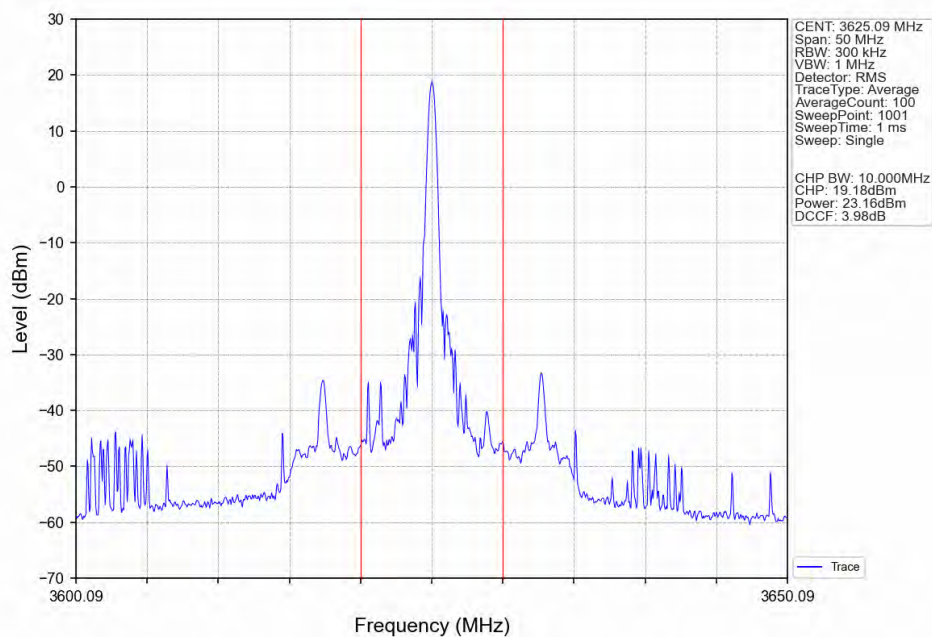
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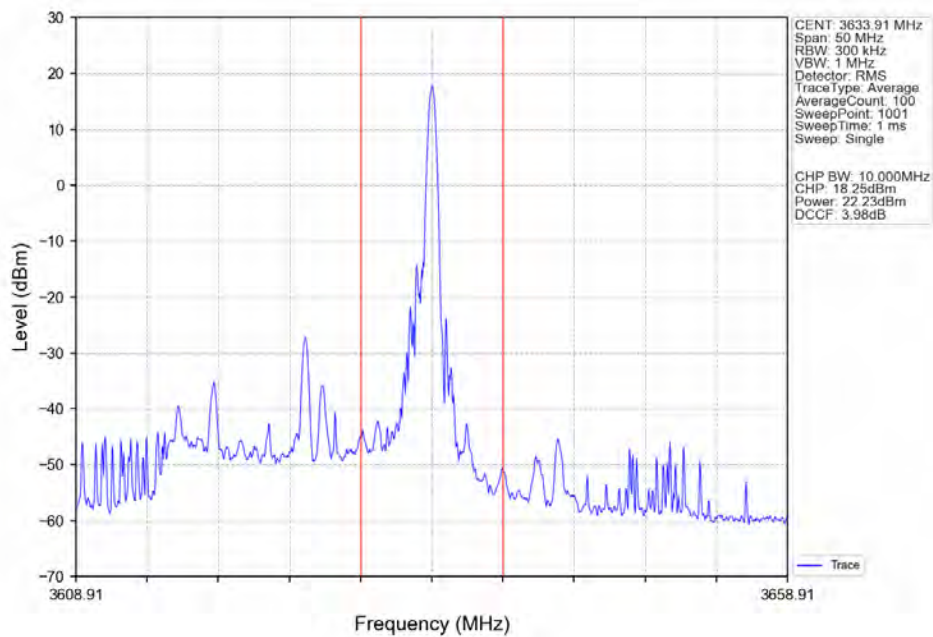
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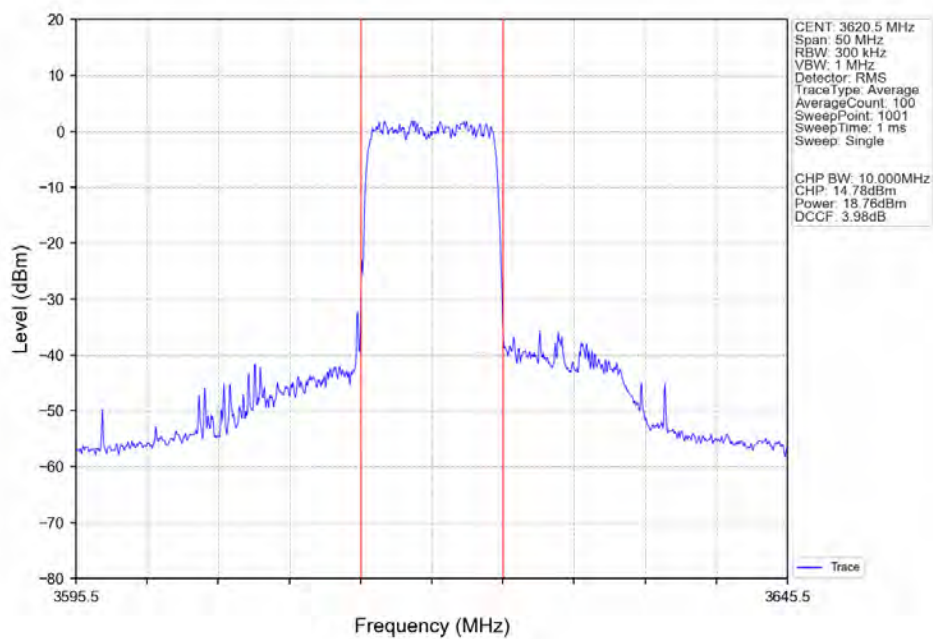
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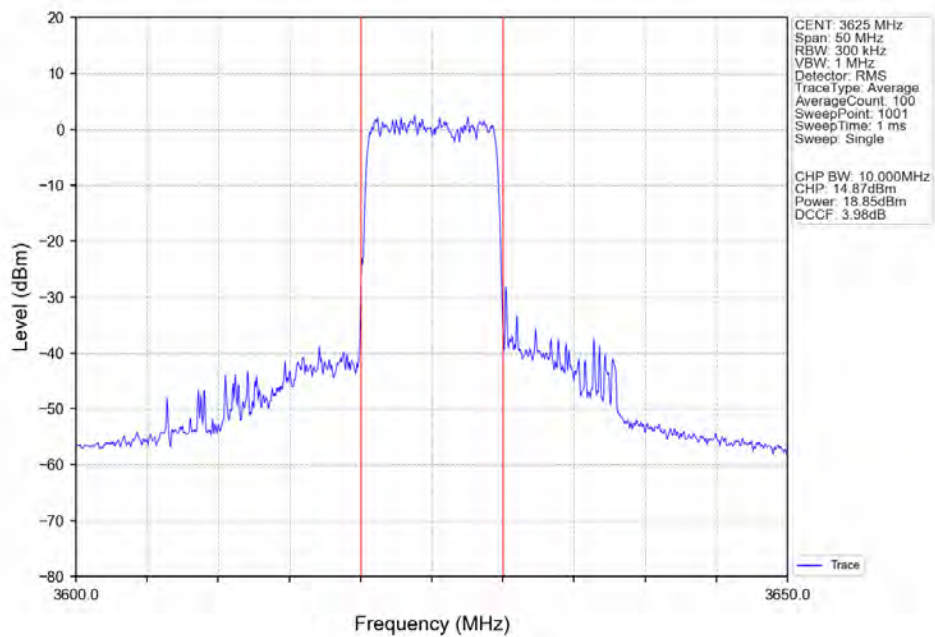
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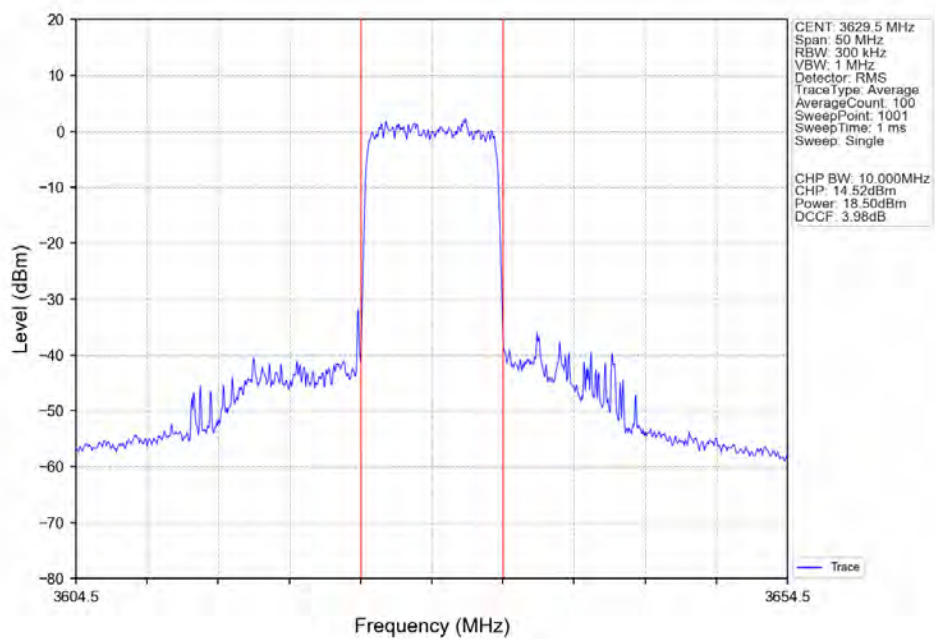
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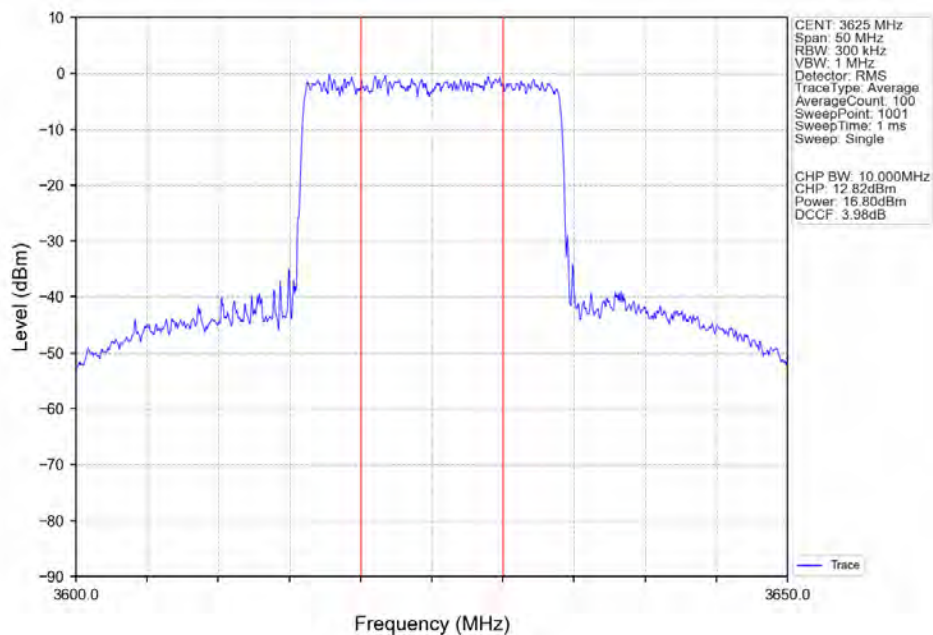
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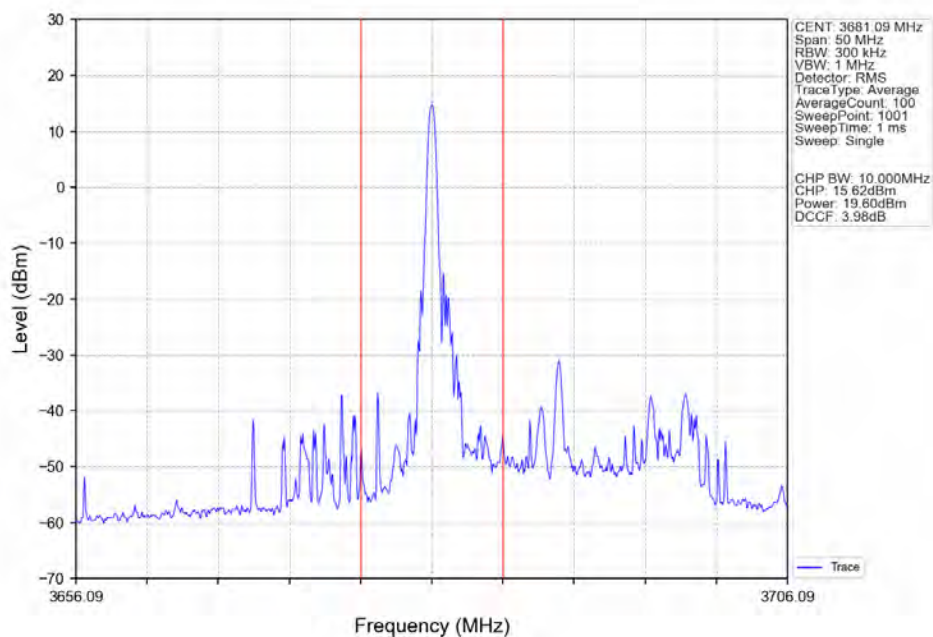
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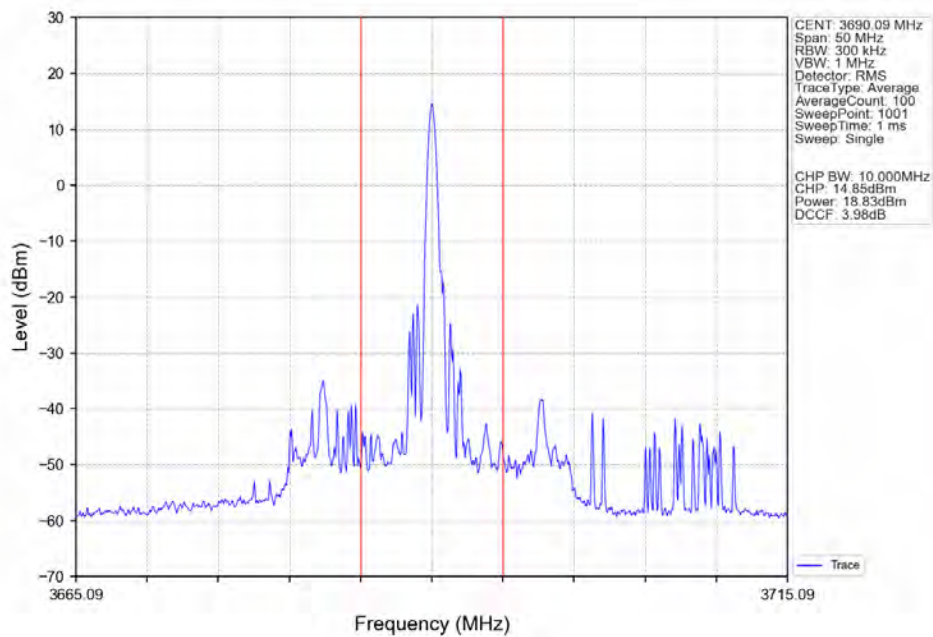
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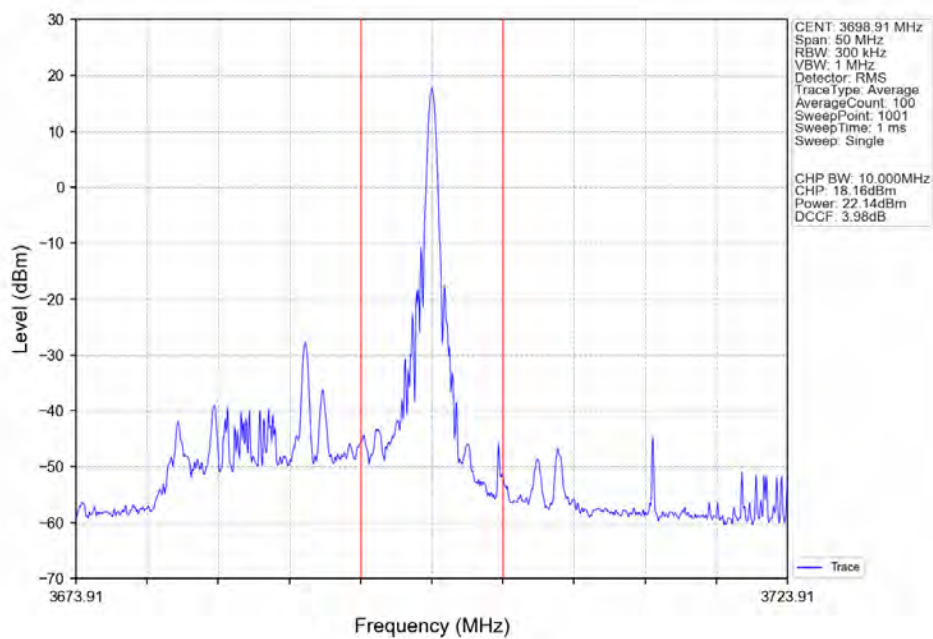
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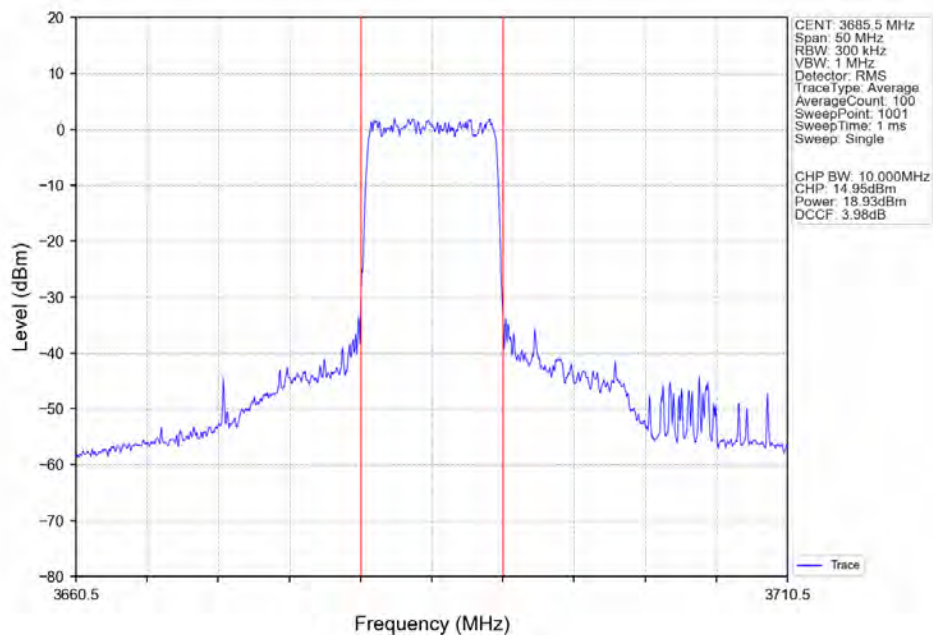
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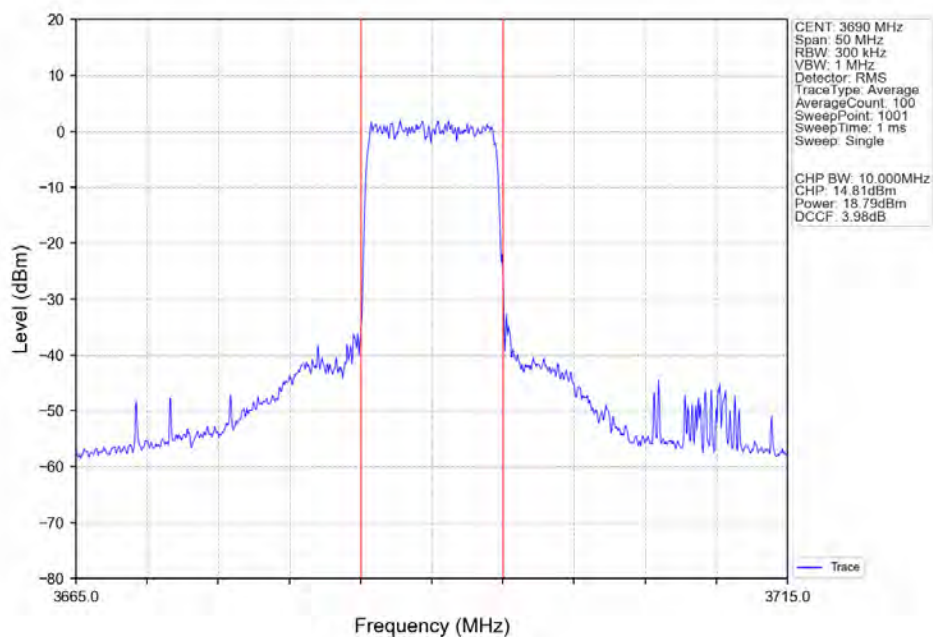
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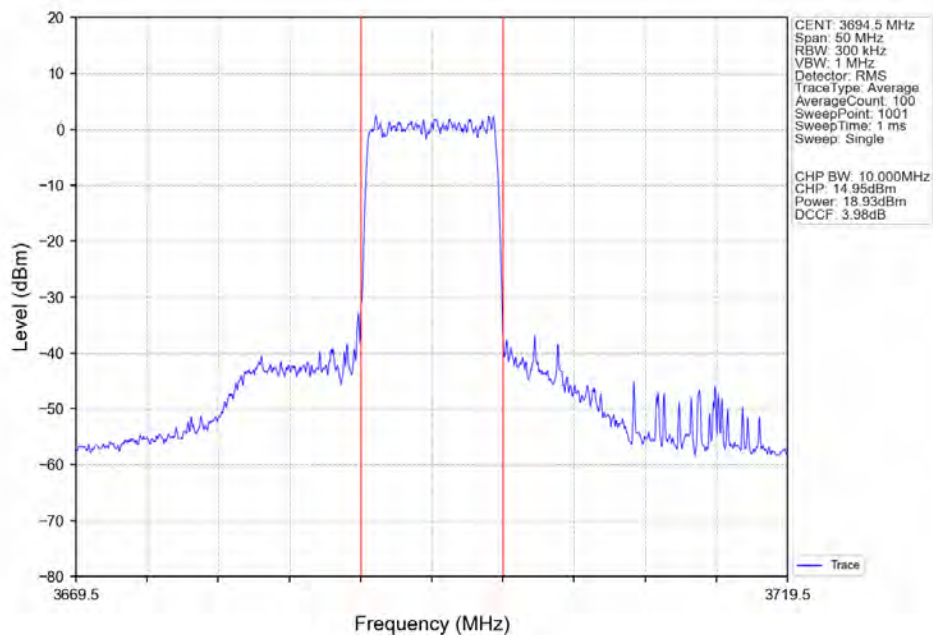
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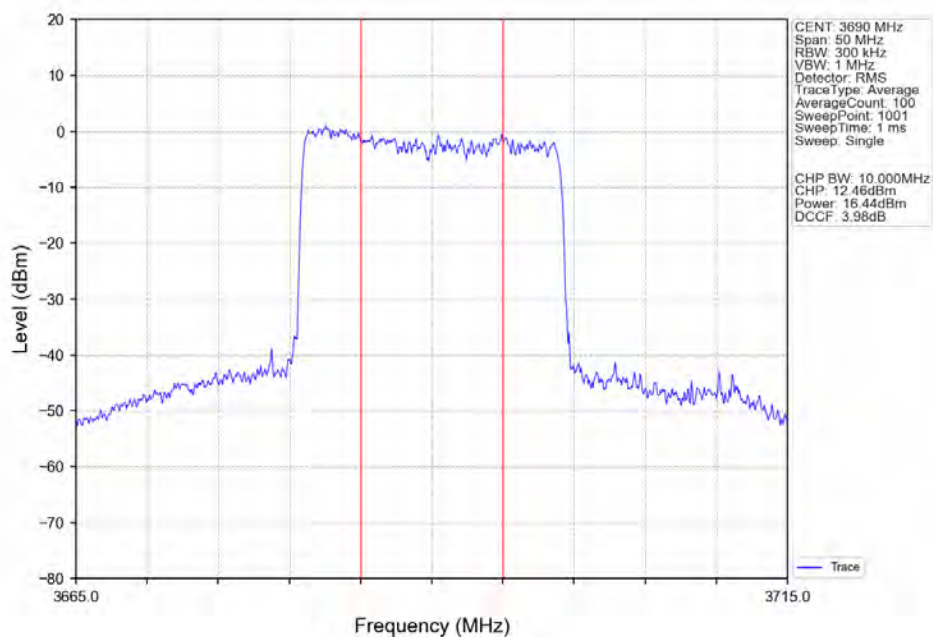
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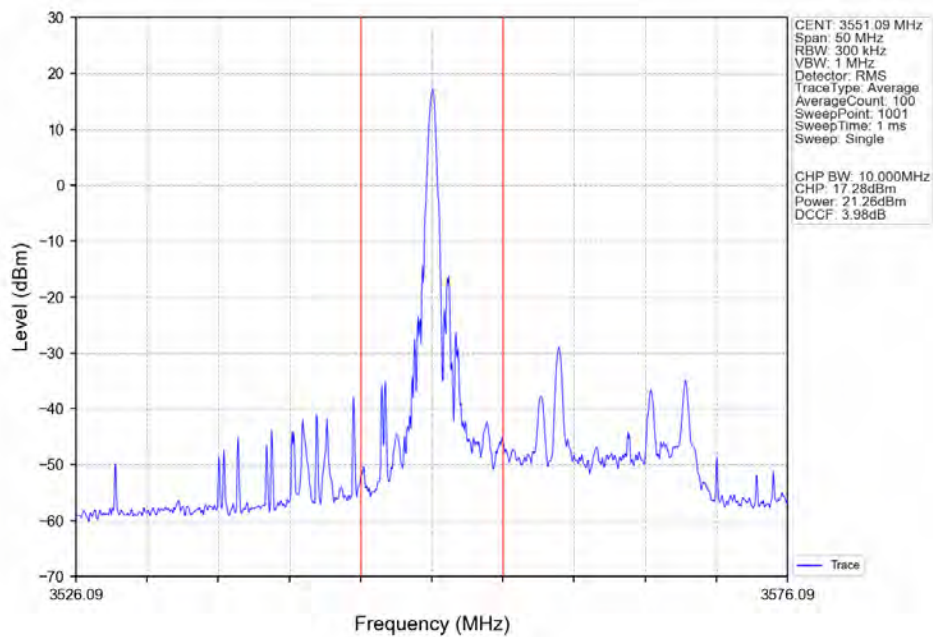
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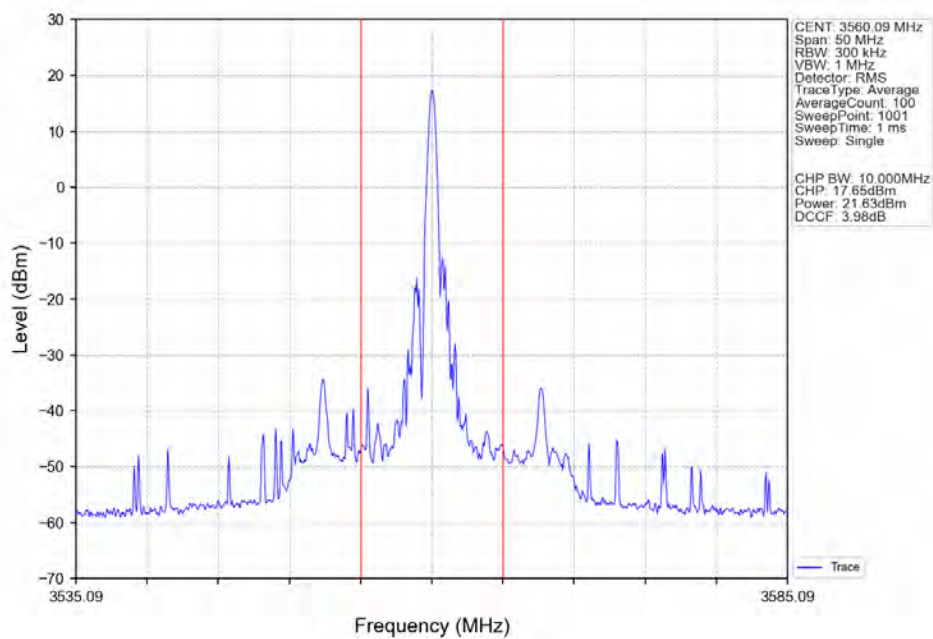
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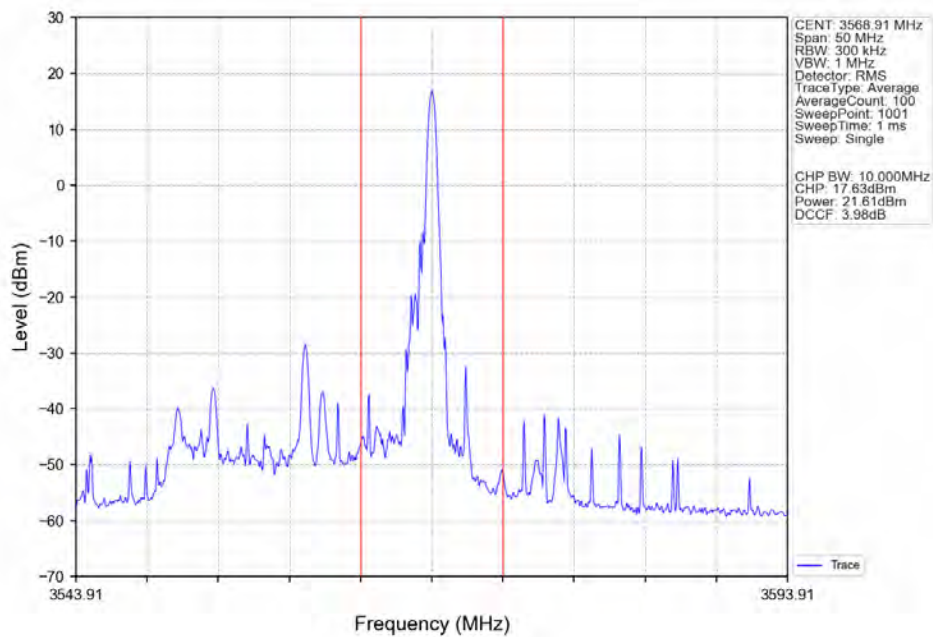
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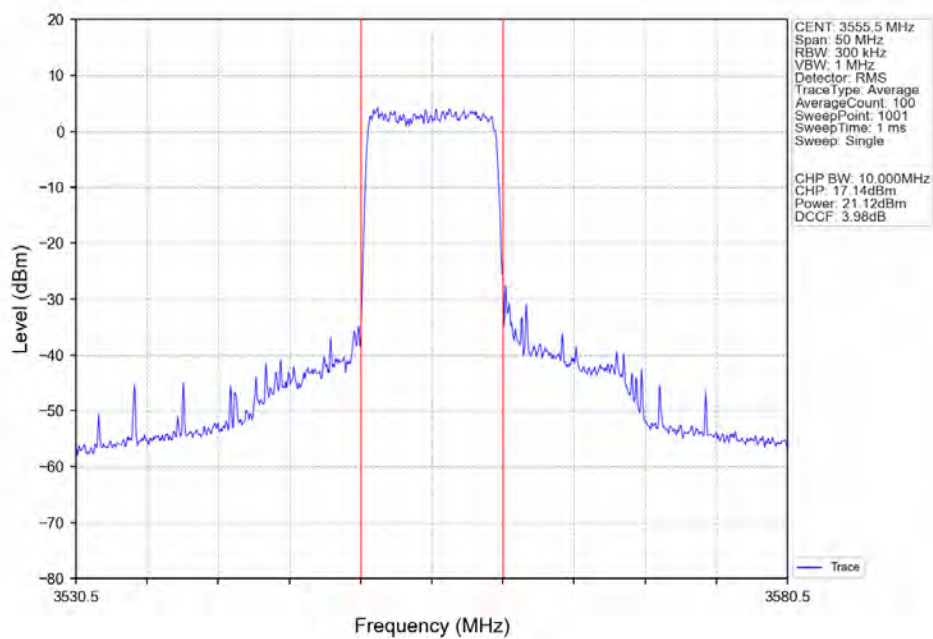
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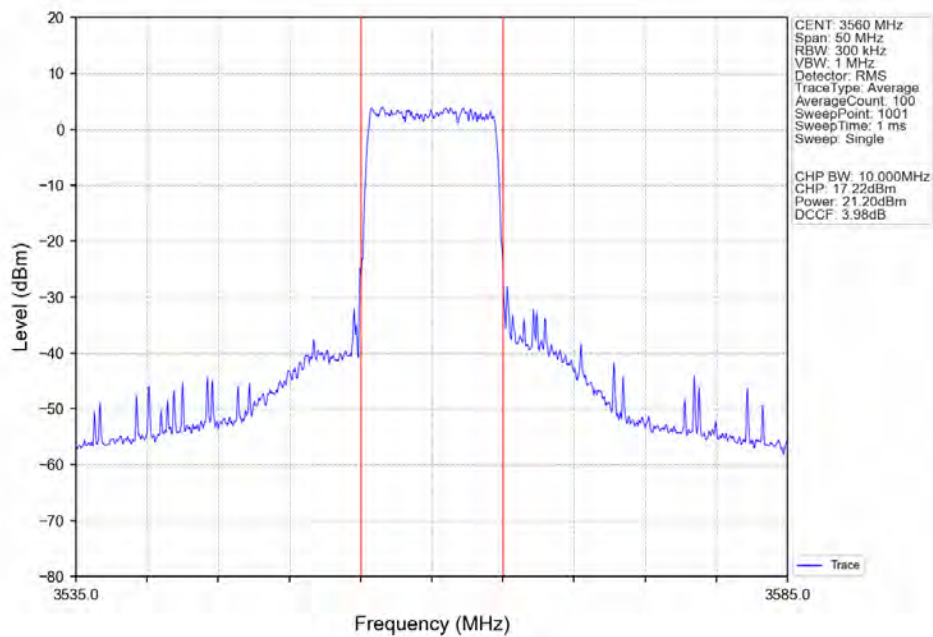
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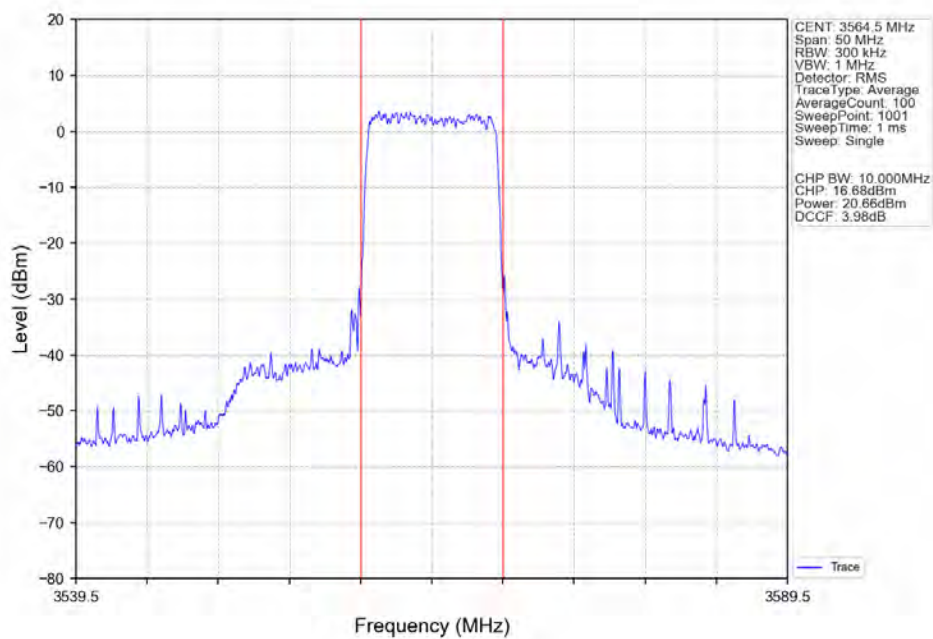
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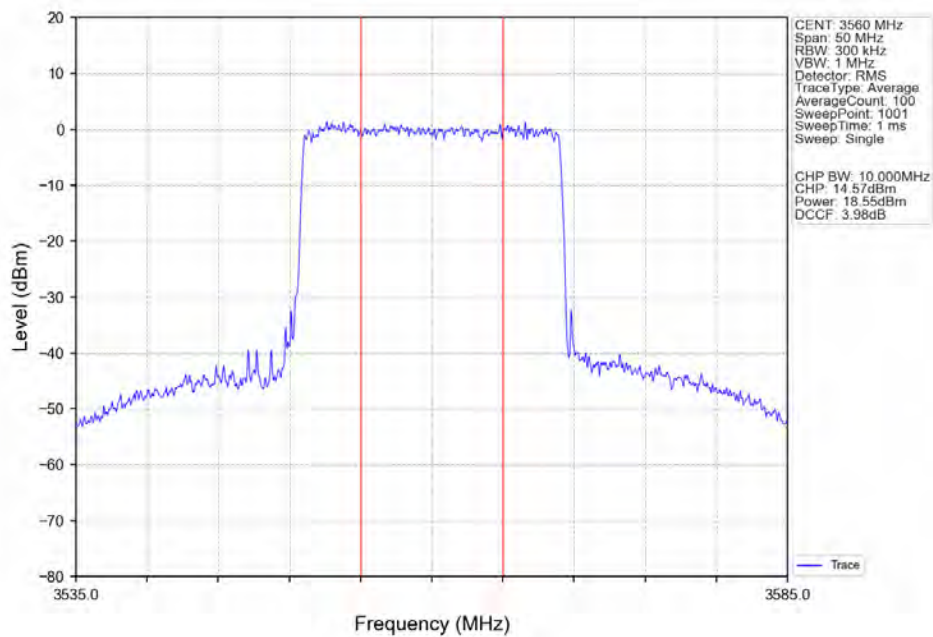
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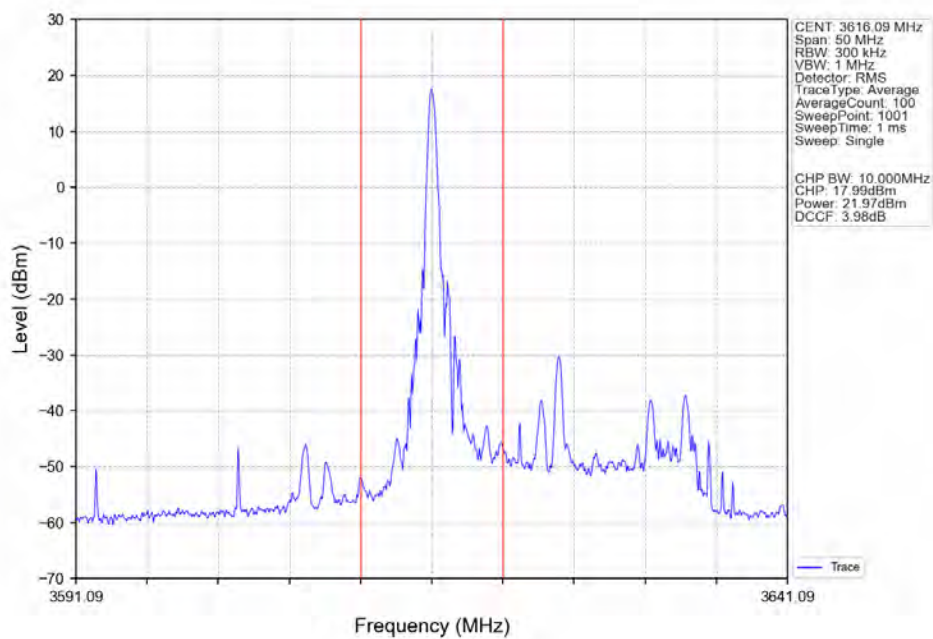
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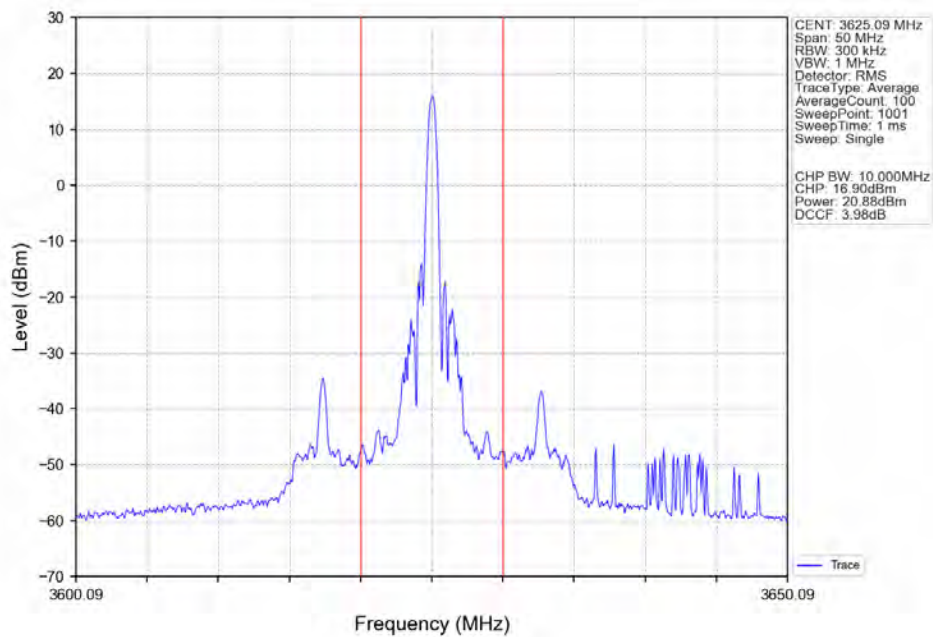
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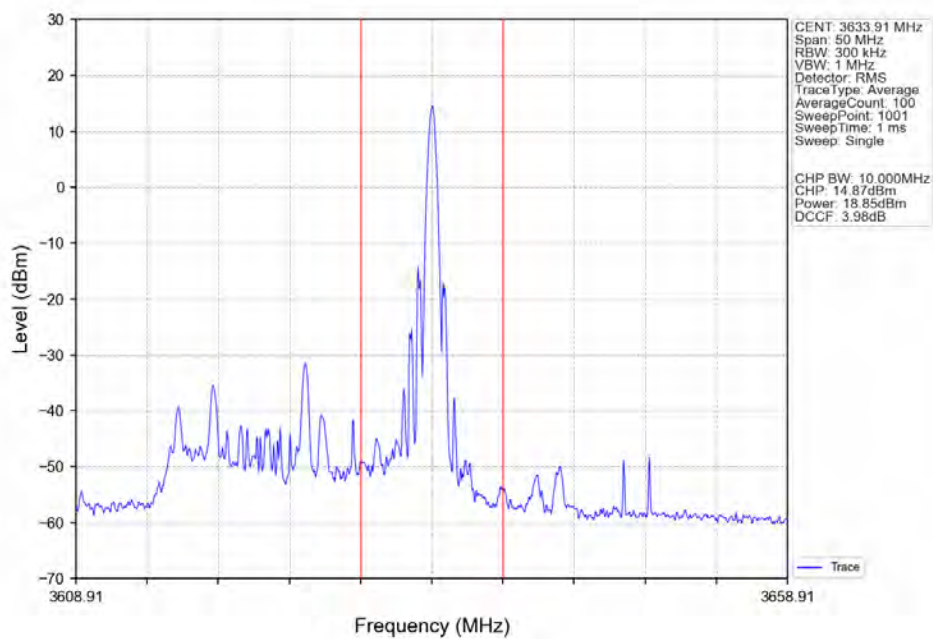
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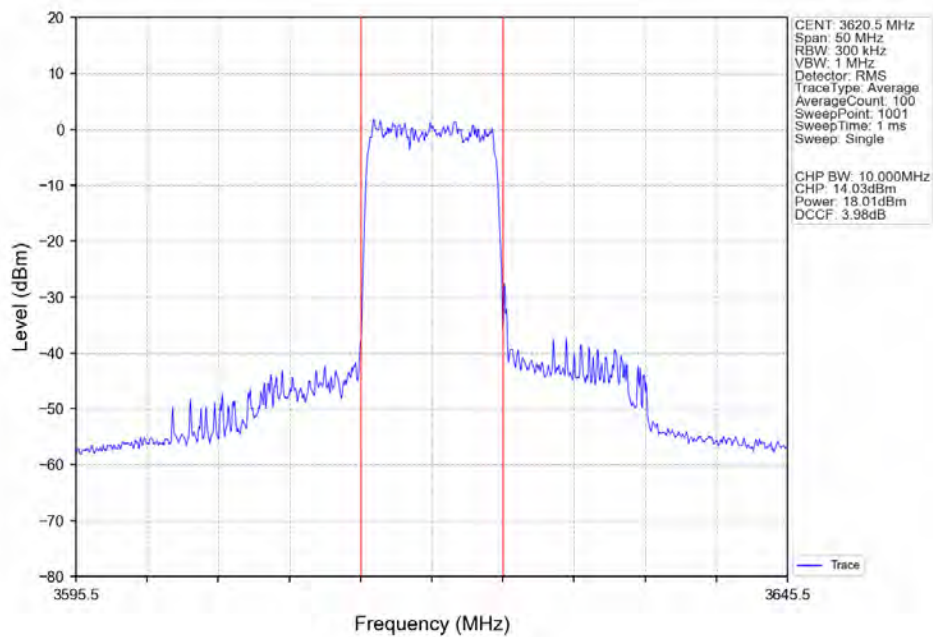
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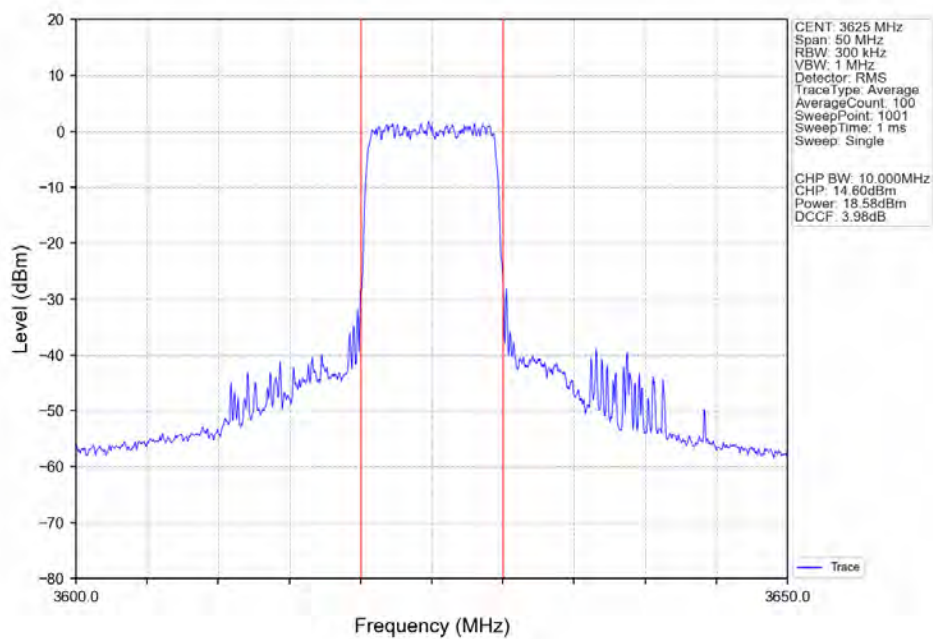
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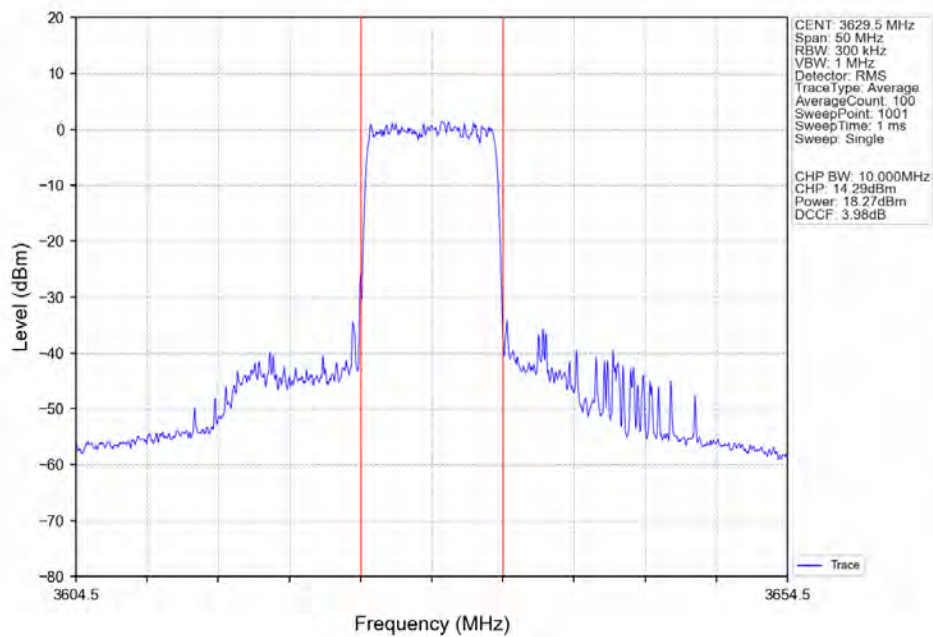
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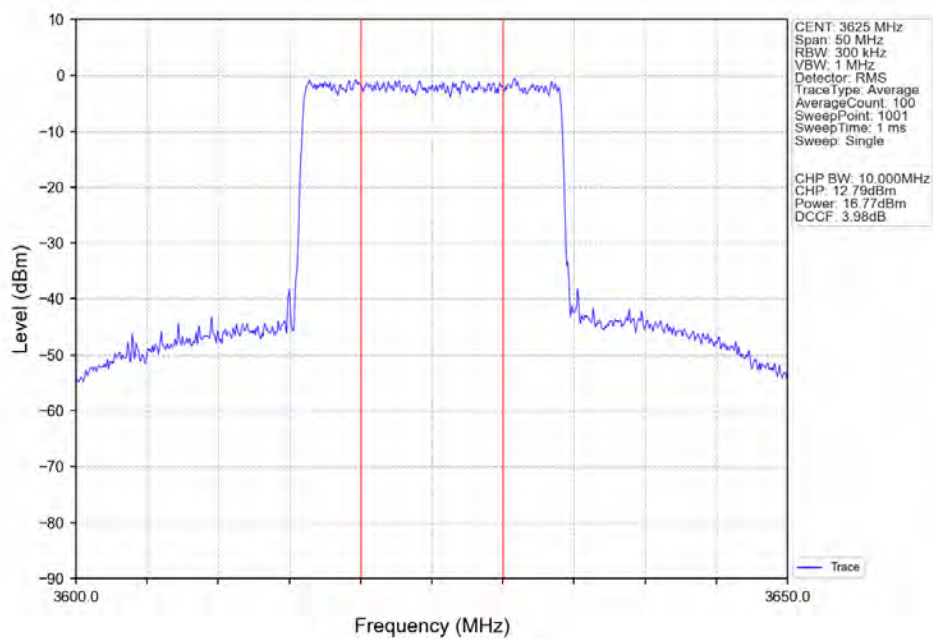
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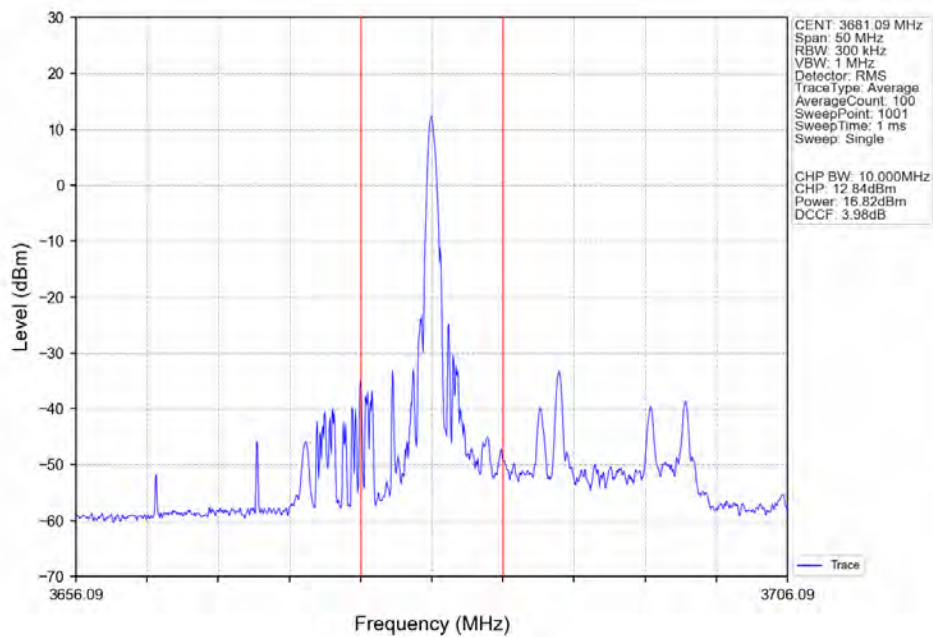
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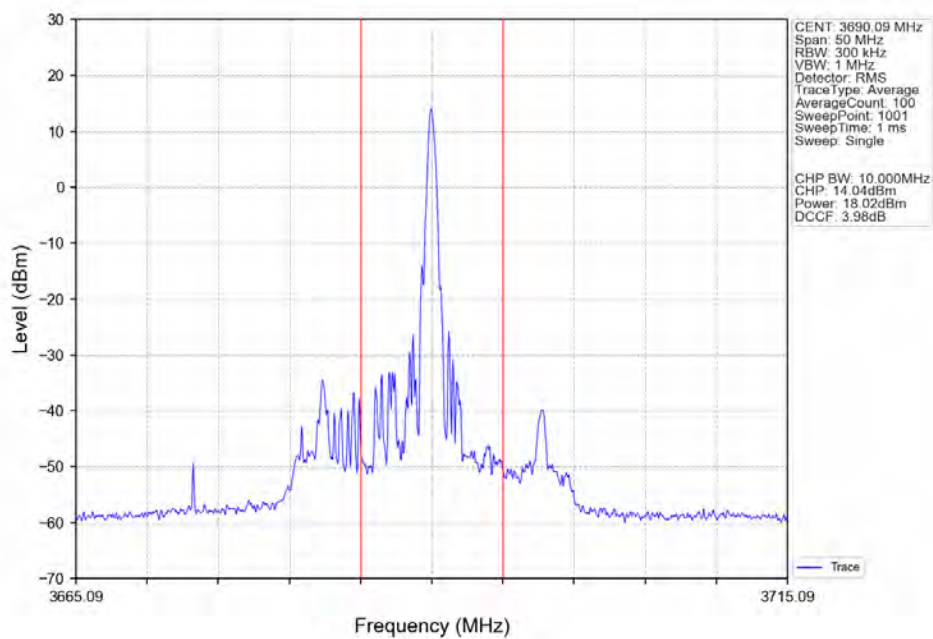
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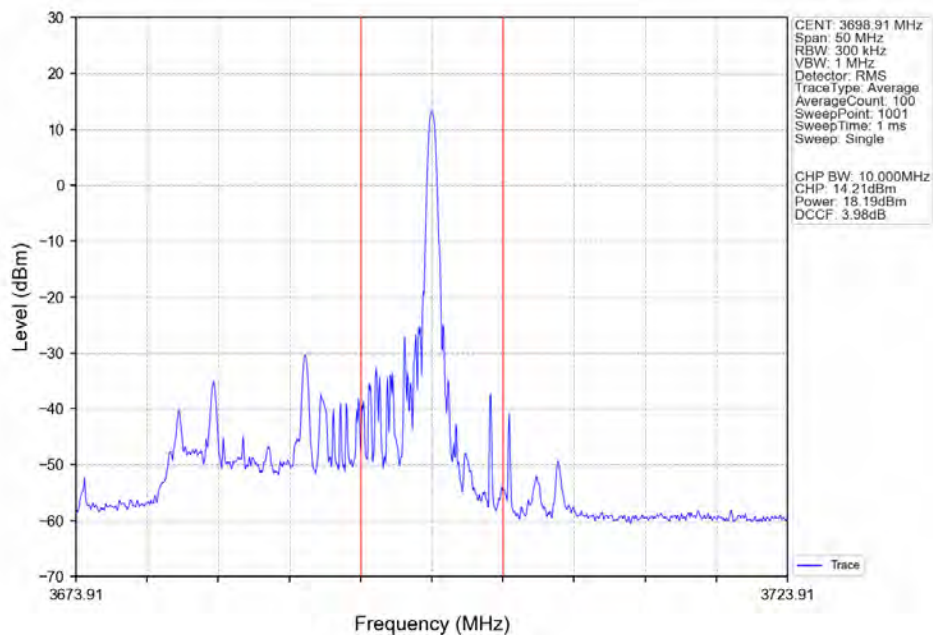
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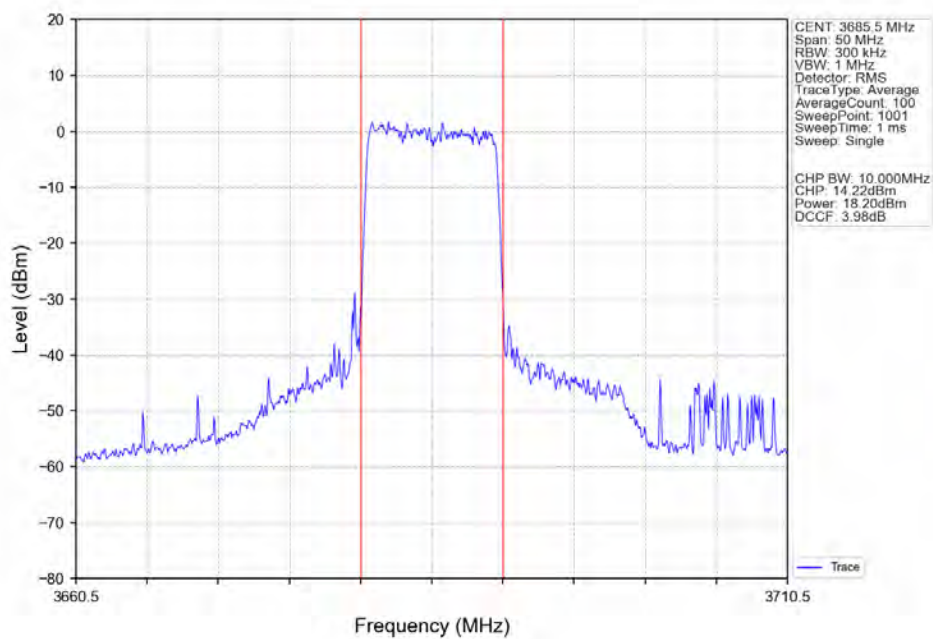
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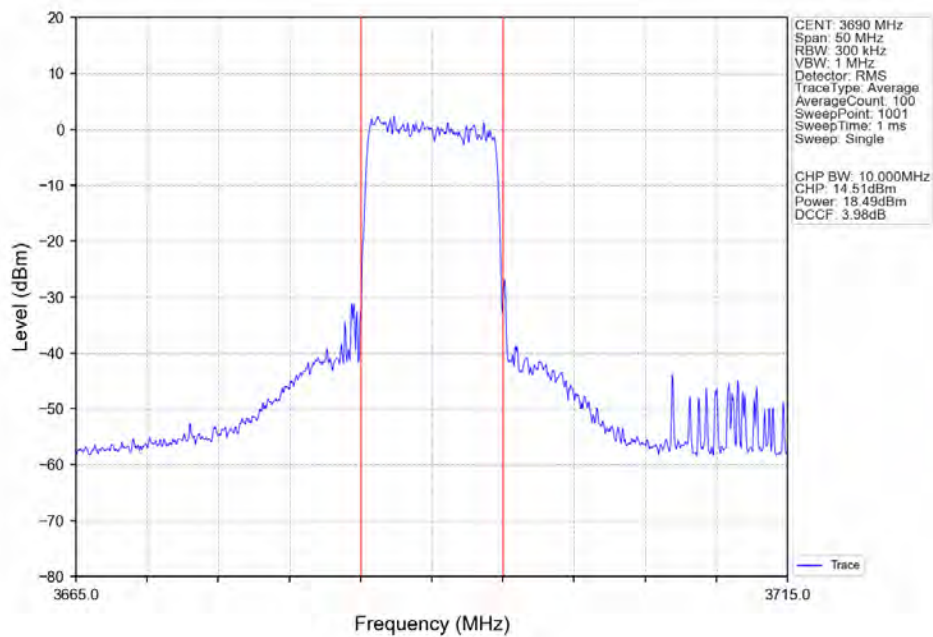
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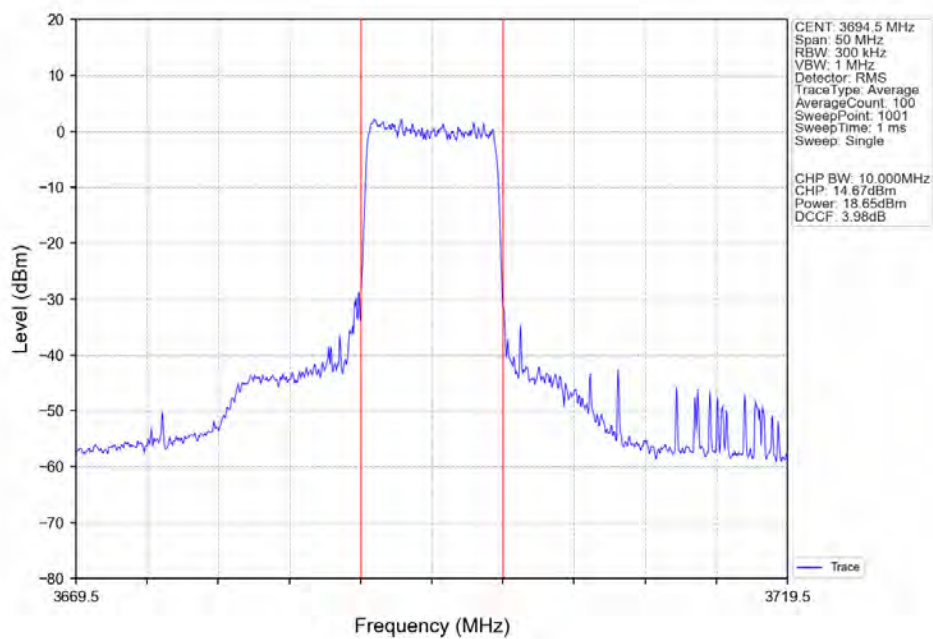
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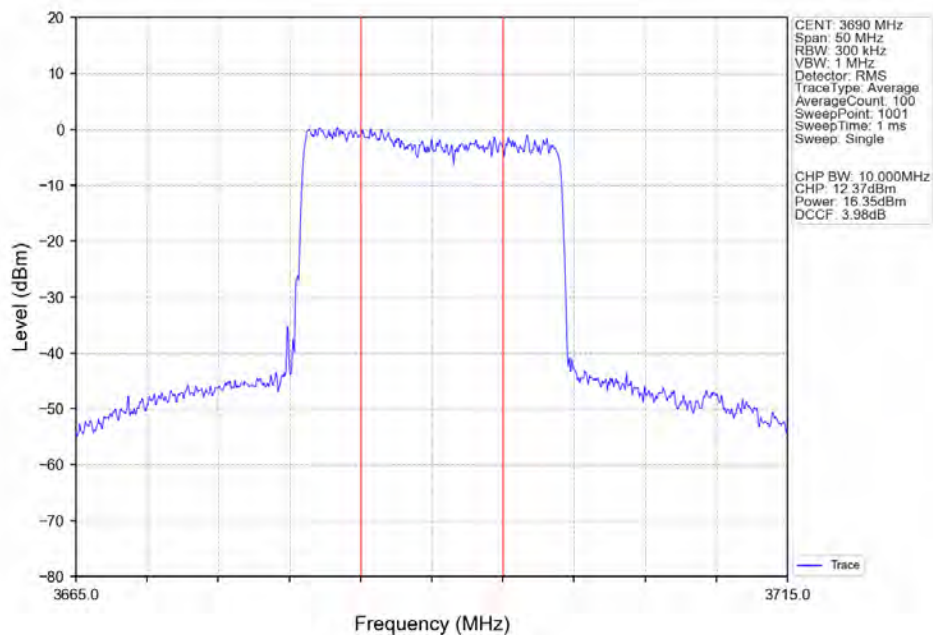
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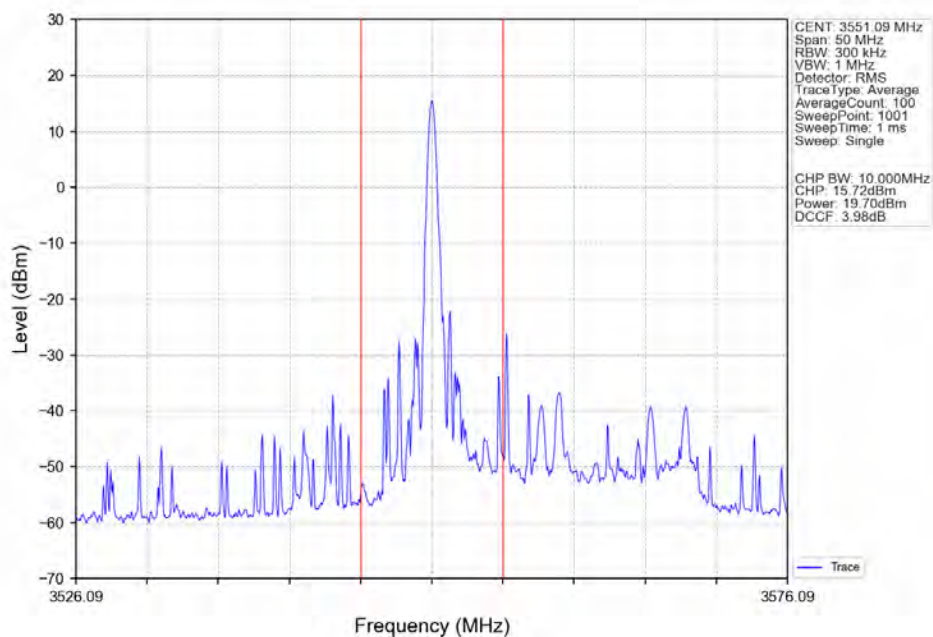
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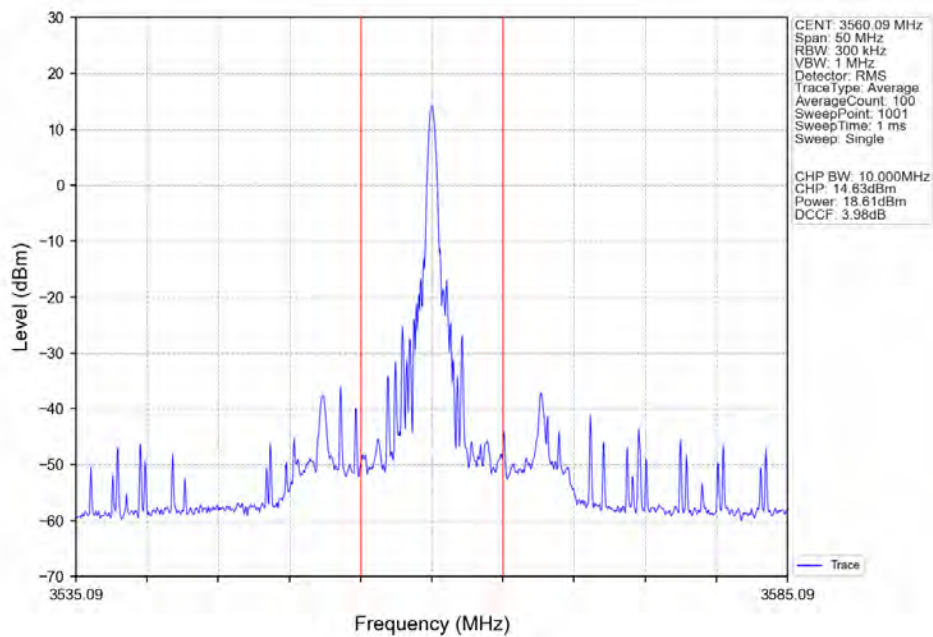
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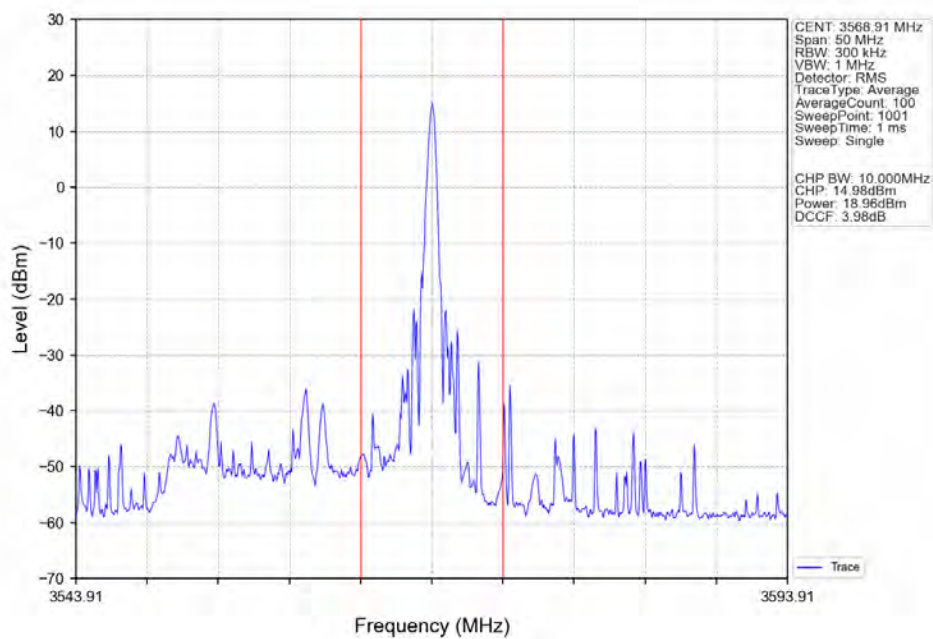
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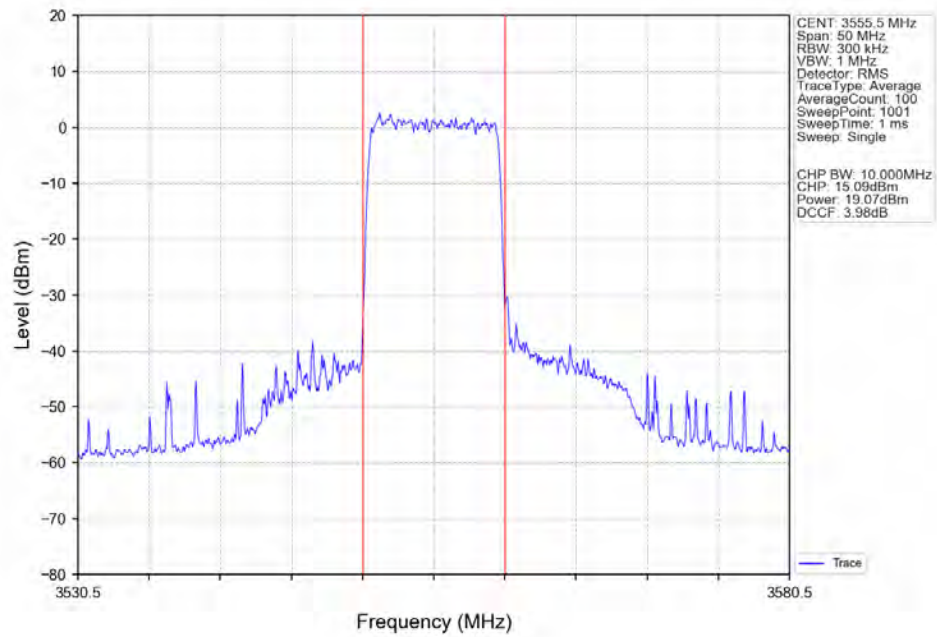
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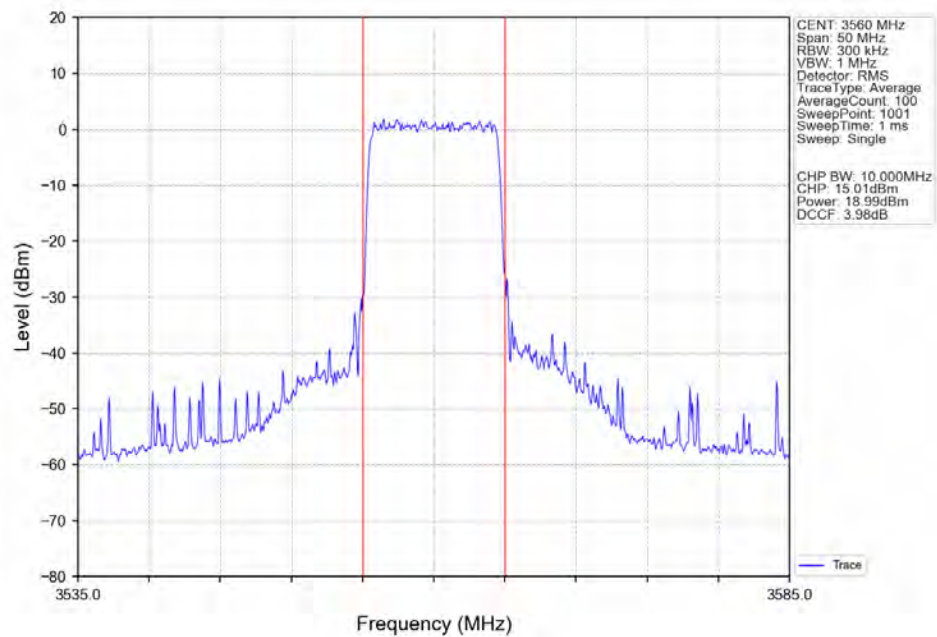
Band48 20MHz 256QAM LCH 3560MHz RB 1 99 NTNV



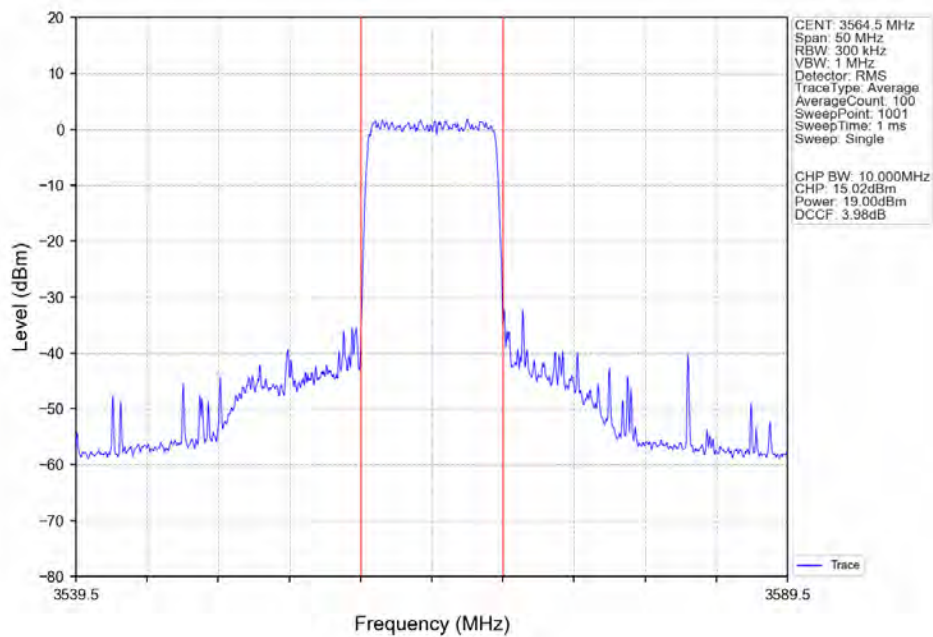
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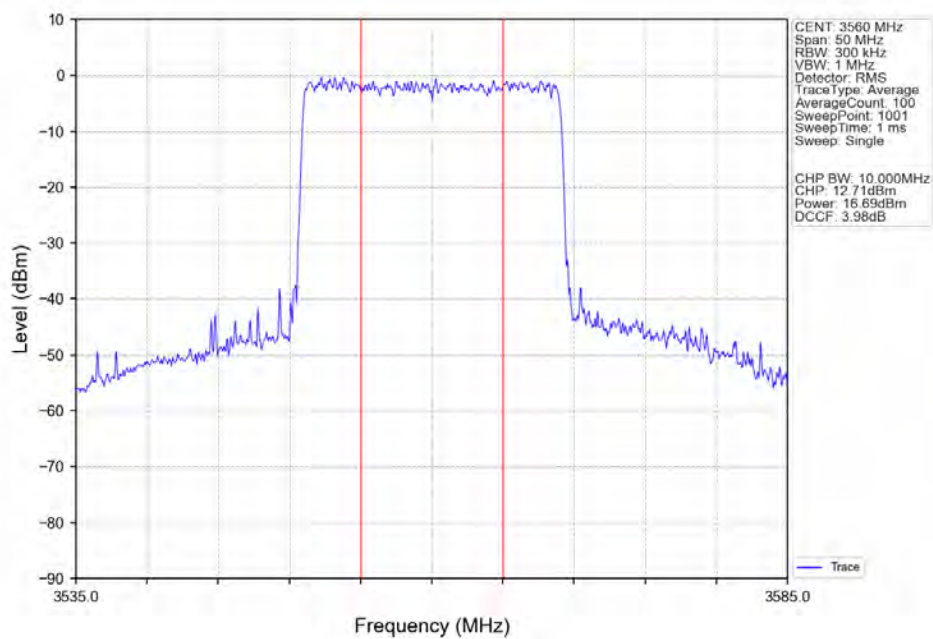
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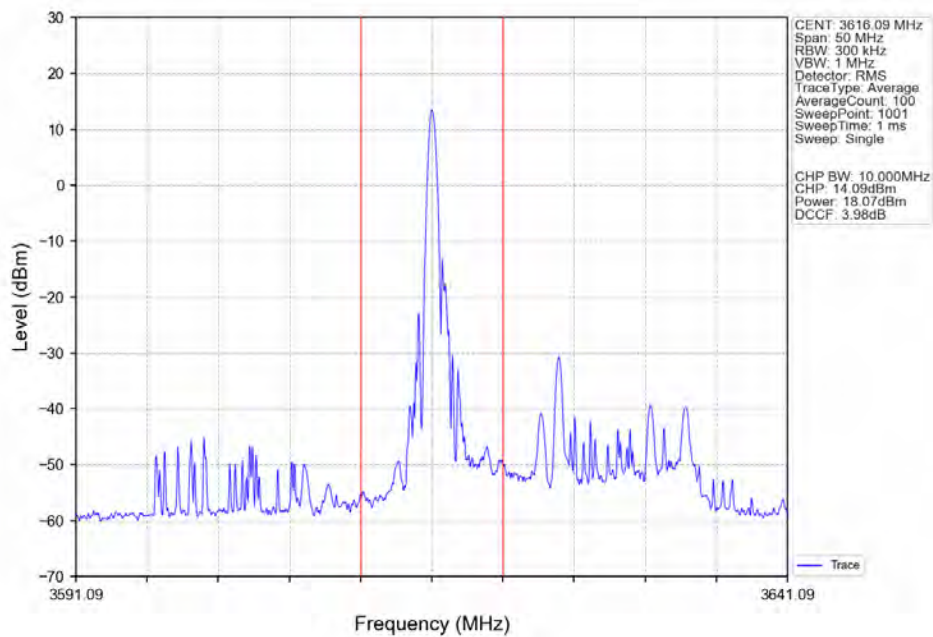
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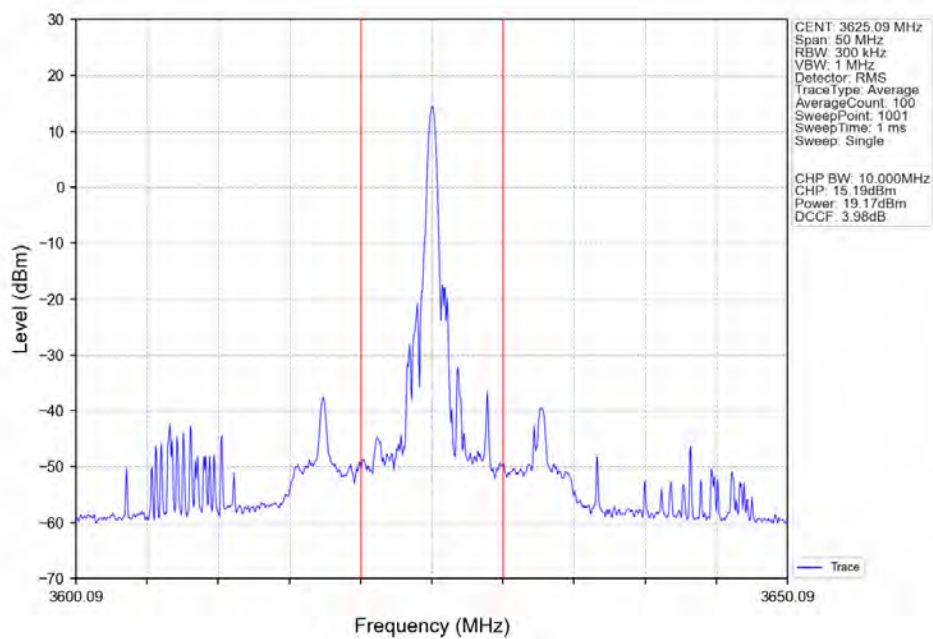
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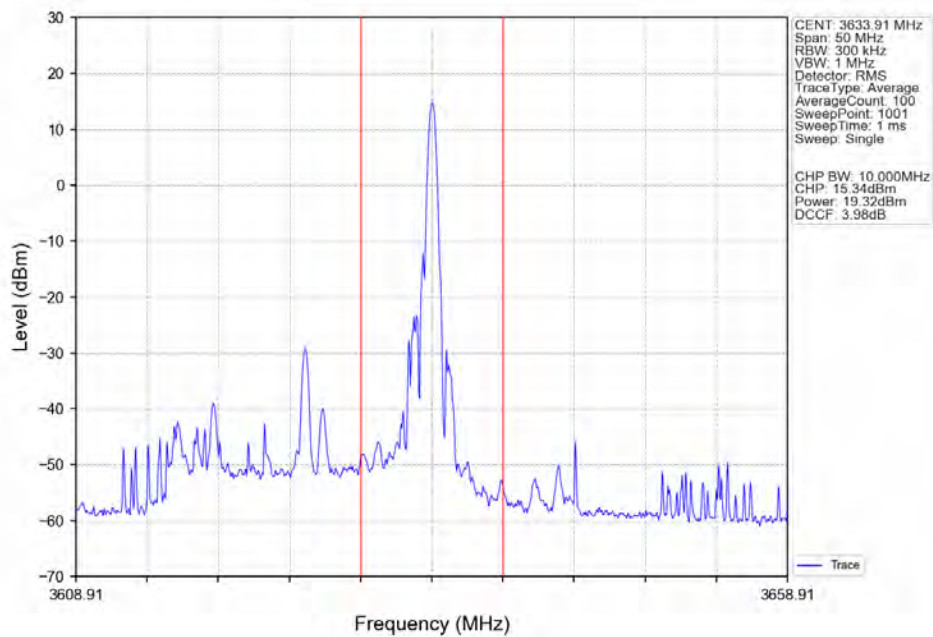
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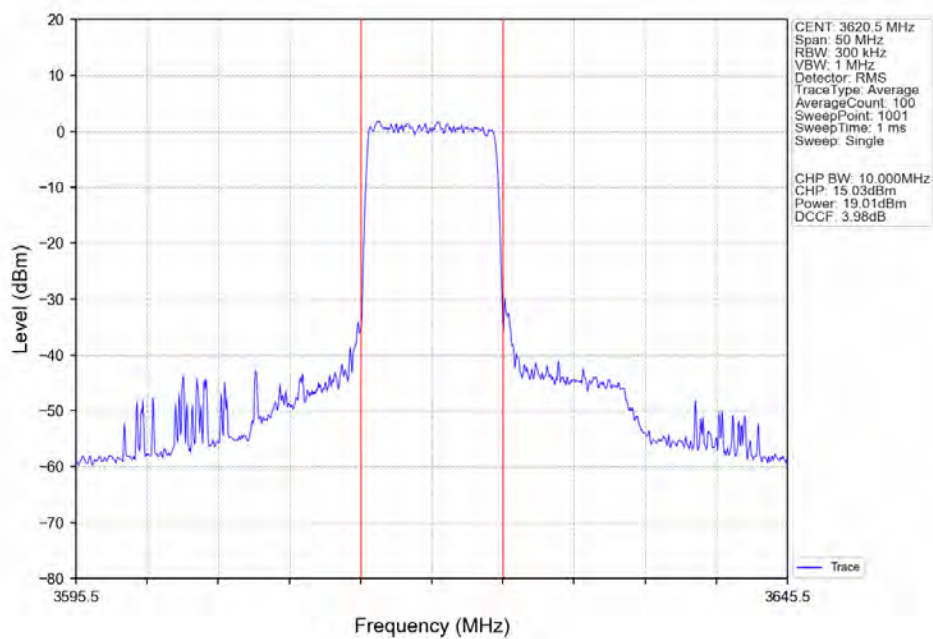
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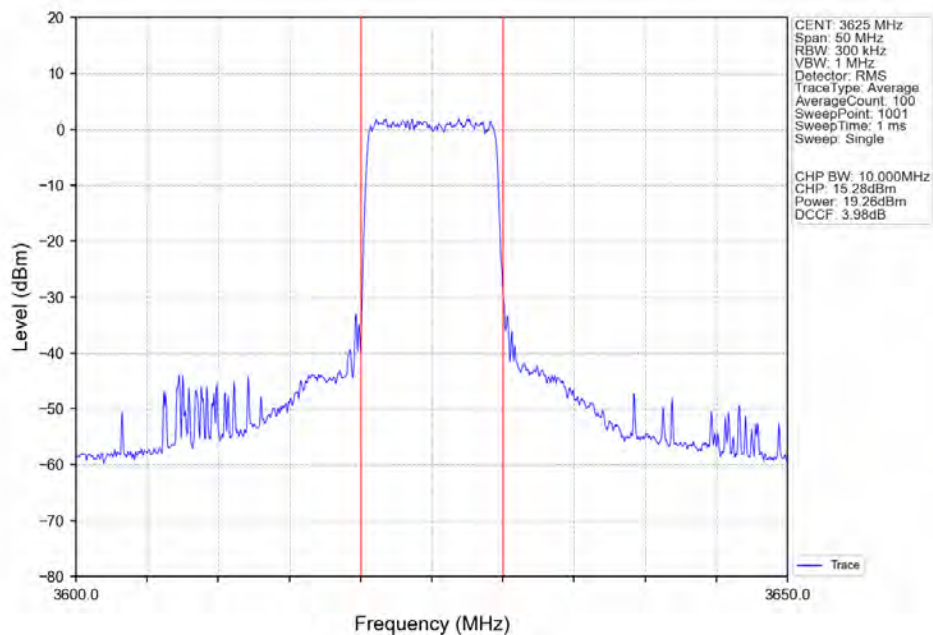
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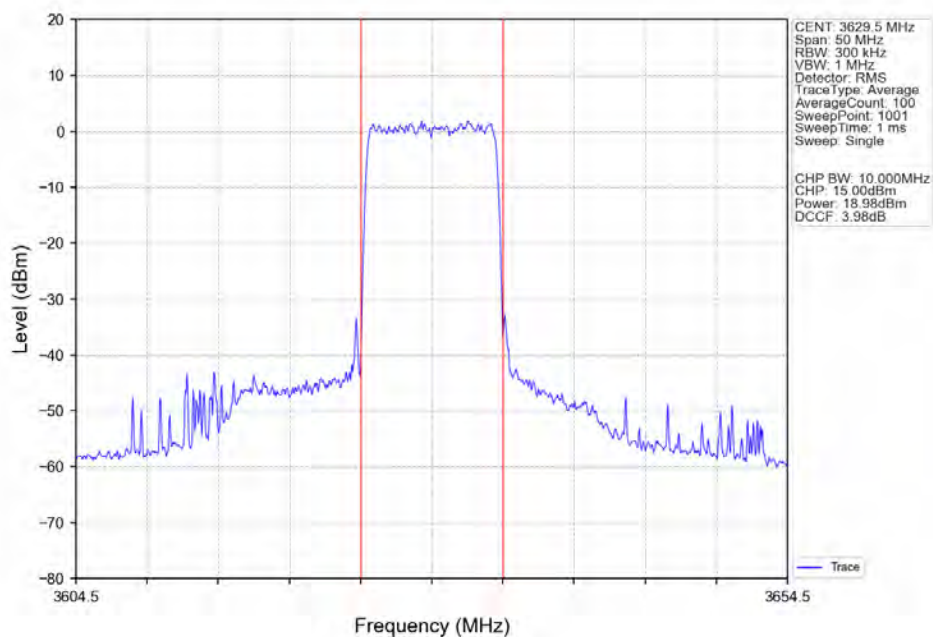
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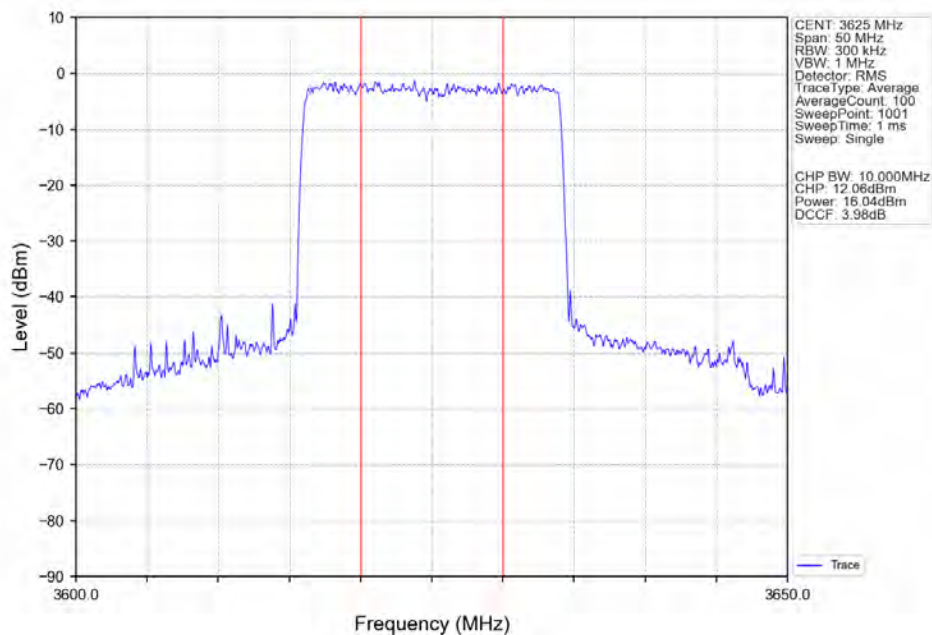
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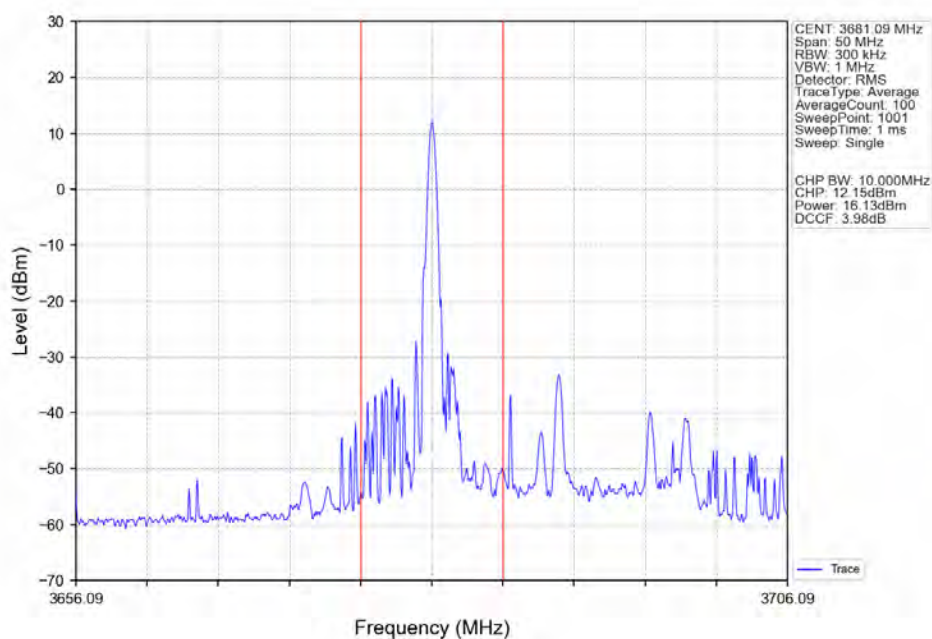
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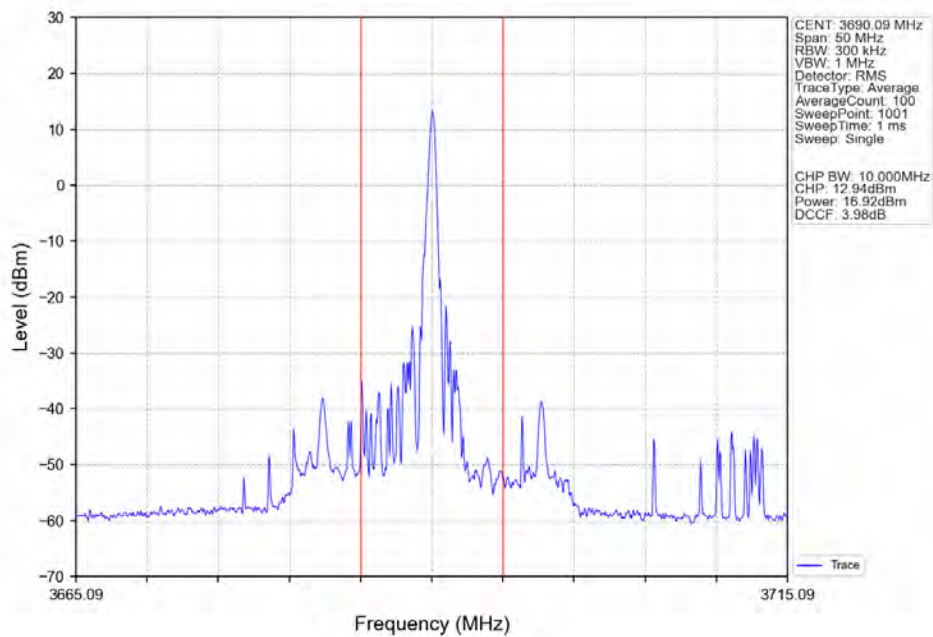
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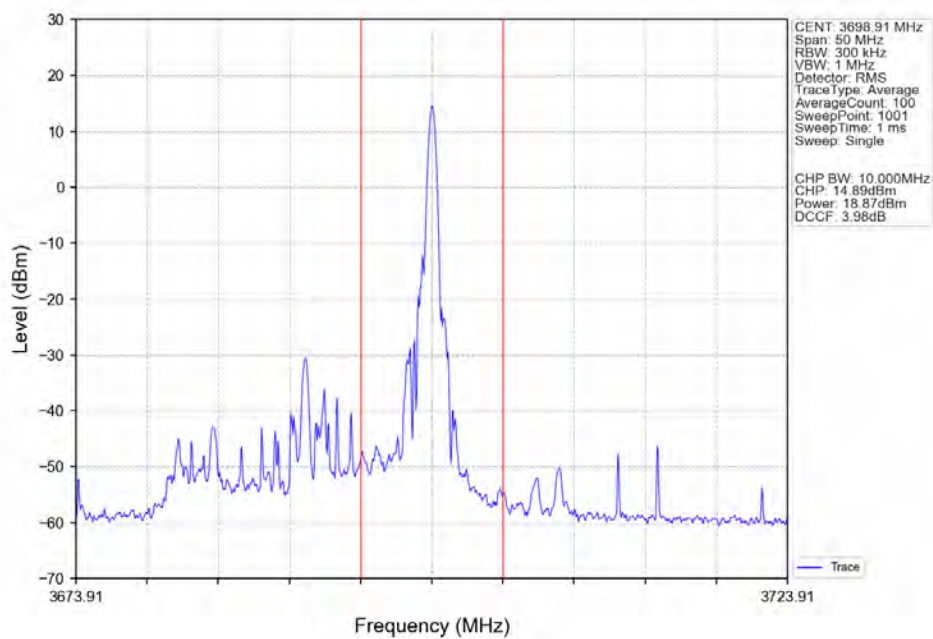
Band48 20MHz 256QAM HCH 3690MHz RB 1 0 NTNV



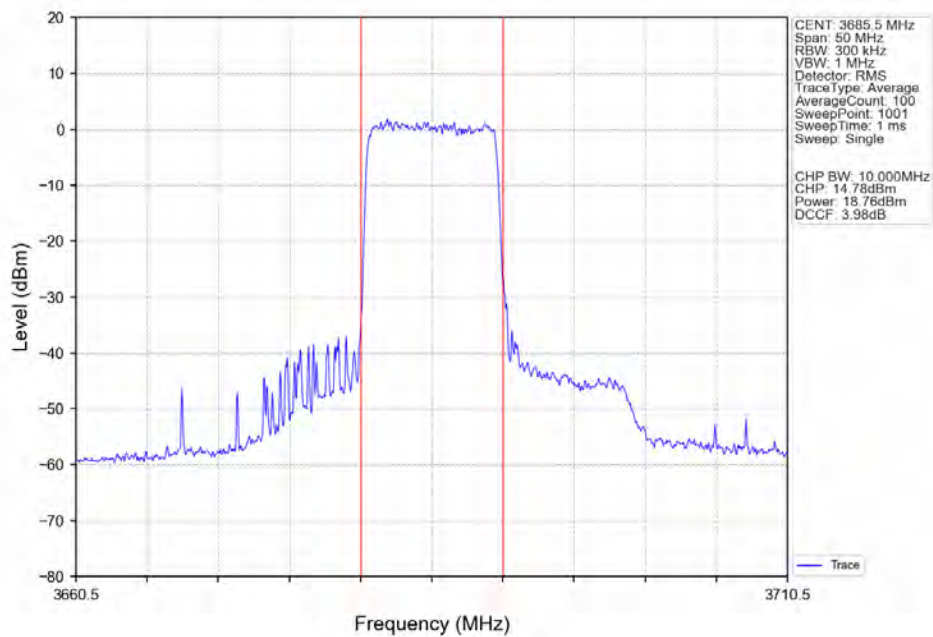
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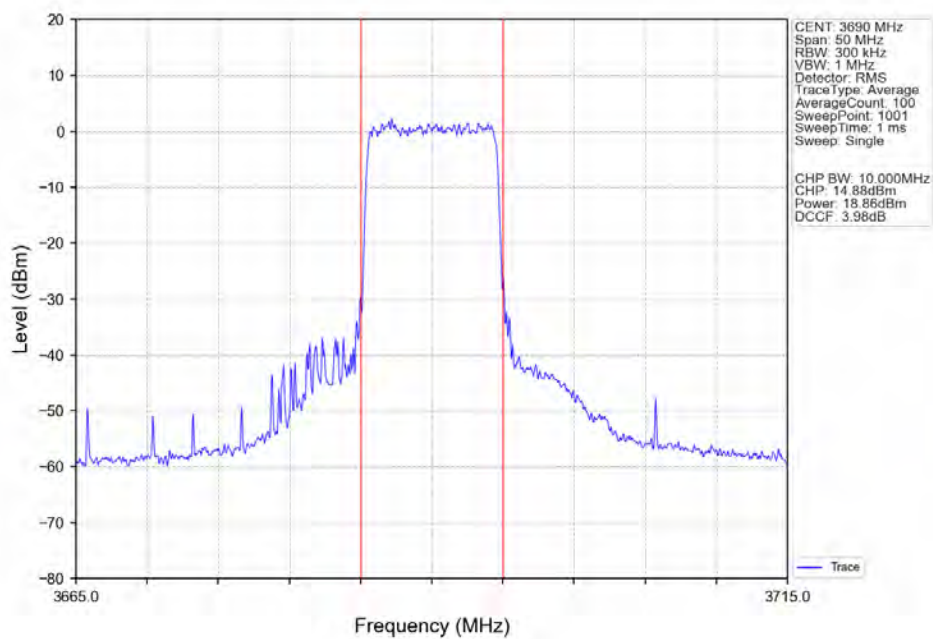
Band48 20MHz 256QAM HCH 3690MHz RB 1 99 NTNV



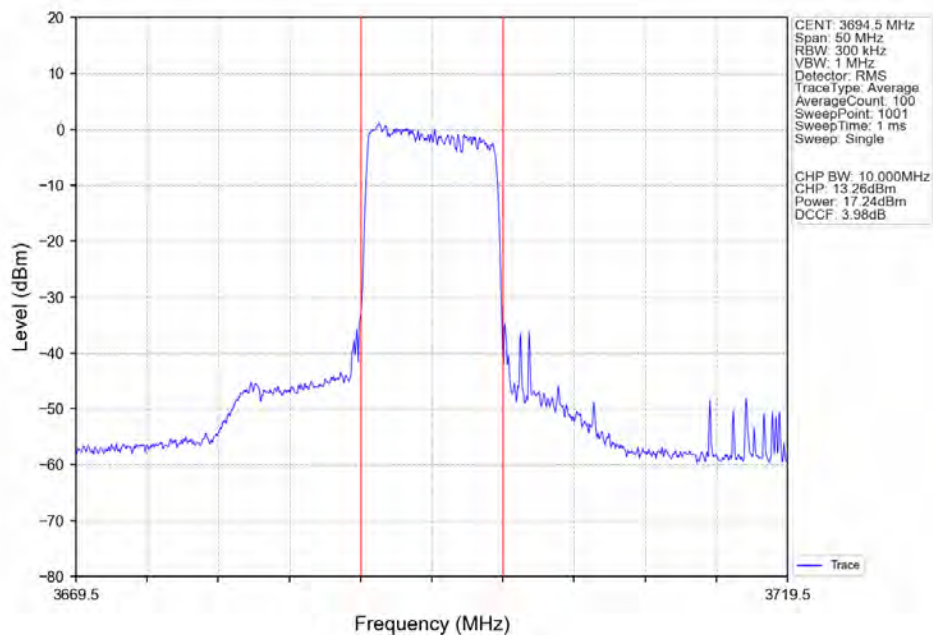
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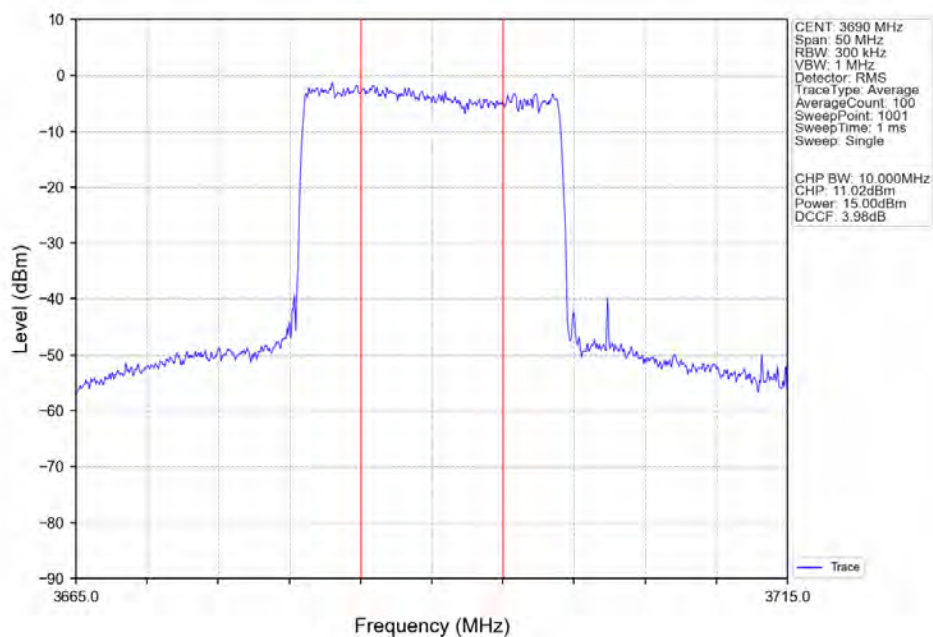
Band48 20MHz 256QAM HCH 3690MHz RB 50 25 NTNV



Band48 20MHz 256QAM HCH 3690MHz RB 50 50 NTN



Band48 20MHz 256QAM HCH 3690MHz RB 100 0 NTN



2. Frequency Stability

2.1 Test Result

2.1.1 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	3625	25	0	20	3.27	-6.398	-0.0018	-2.5 to 2.5	Pass
					3.85	5.334	0.0015	-2.5 to 2.5	Pass
					4.43	-2.083	-0.0006	-2.5 to 2.5	Pass
				-30	3.85	-0.952	-0.0003	-2.5 to 2.5	Pass
				-20	3.85	3.901	0.0011	-2.5 to 2.5	Pass
				-10	3.85	0.896	0.0002	-2.5 to 2.5	Pass
				0	3.85	-6.504	-0.0018	-2.5 to 2.5	Pass
				10	3.85	-1.603	-0.0004	-2.5 to 2.5	Pass
				30	3.85	-3.186	-0.0009	-2.5 to 2.5	Pass
				40	3.85	-1.678	-0.0005	-2.5 to 2.5	Pass
				50	3.85	-0.082	0.0000	-2.5 to 2.5	Pass

2.1.2 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	3625	50	0	20	3.27	-4.113	-0.0011	-2.5 to 2.5	Pass
					3.85	2.846	0.0008	-2.5 to 2.5	Pass
					4.43	-2.216	-0.0006	-2.5 to 2.5	Pass
				-30	3.85	0.886	0.0002	-2.5 to 2.5	Pass
				-20	3.85	-0.154	0.0000	-2.5 to 2.5	Pass
				-10	3.85	-0.267	-0.0001	-2.5 to 2.5	Pass
				0	3.85	0.372	0.0001	-2.5 to 2.5	Pass
				10	3.85	-4.962	-0.0014	-2.5 to 2.5	Pass
				30	3.85	4.844	0.0013	-2.5 to 2.5	Pass
				40	3.85	1.687	0.0005	-2.5 to 2.5	Pass
				50	3.85	4.228	0.0012	-2.5 to 2.5	Pass

2.1.3 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	3625	75	0	20	3.27	-6.576	-0.0018	-2.5 to 2.5	Pass
					3.85	-0.410	-0.0001	-2.5 to 2.5	Pass
					4.43	-5.641	-0.0016	-2.5 to 2.5	Pass
				-30	3.85	1.637	0.0005	-2.5 to 2.5	Pass
				-20	3.85	-2.185	-0.0006	-2.5 to 2.5	Pass
				-10	3.85	1.157	0.0003	-2.5 to 2.5	Pass
				0	3.85	4.473	0.0012	-2.5 to 2.5	Pass
				10	3.85	2.269	0.0006	-2.5 to 2.5	Pass
				30	3.85	-0.130	0.0000	-2.5 to 2.5	Pass

				40	3.85	-2.768	-0.0008	-2.5 to 2.5	Pass
				50	3.85	0.573	0.0002	-2.5 to 2.5	Pass

2.1.4 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	3625	100	0	20	3.27	-2.473	-0.0007	-2.5 to 2.5	Pass
					3.85	-5.740	-0.0016	-2.5 to 2.5	Pass
					4.43	2.089	0.0006	-2.5 to 2.5	Pass
				-30	3.85	3.854	0.0011	-2.5 to 2.5	Pass
				-20	3.85	-3.525	-0.0010	-2.5 to 2.5	Pass
				-10	3.85	1.443	0.0004	-2.5 to 2.5	Pass
				0	3.85	-2.907	-0.0008	-2.5 to 2.5	Pass
				10	3.85	1.182	0.0003	-2.5 to 2.5	Pass
				30	3.85	3.156	0.0009	-2.5 to 2.5	Pass
				40	3.85	6.813	0.0019	-2.5 to 2.5	Pass
				50	3.85	1.775	0.0005	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 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	4.520	/	Pass
		3625	25	0	4.509	/	Pass
		3697.5	25	0	4.519	/	Pass
	16QAM	3552.5	25	0	4.501	/	Pass
		3625	25	0	4.505	/	Pass
		3697.5	25	0	4.519	/	Pass
	64QAM	3552.5	25	0	4.522	/	Pass
		3625	25	0	4.511	/	Pass
		3697.5	25	0	4.525	/	Pass
	256QAM	3552.5	25	0	4.521	/	Pass
3625		25	0	4.534	/	Pass	
3697.5		25	0	4.508	/	Pass	
10	QPSK	3555	50	0	9.017	/	Pass
		3625	50	0	9.003	/	Pass
		3695	50	0	9.001	/	Pass
	16QAM	3555	50	0	9.012	/	Pass
		3625	50	0	9.031	/	Pass
		3695	50	0	9.015	/	Pass
	64QAM	3555	50	0	9.012	/	Pass
		3625	50	0	9.022	/	Pass
		3695	50	0	9.013	/	Pass
	256QAM	3555	50	0	9.020	/	Pass
3625		50	0	9.020	/	Pass	
3695		50	0	9.048	/	Pass	
15	QPSK	3557.5	75	0	13.492	/	Pass
		3625	75	0	13.512	/	Pass

	16QAM	3692.5	75	0	13.503	/	Pass
		3557.5	75	0	13.490	/	Pass
		3625	75	0	13.481	/	Pass
		3692.5	75	0	13.483	/	Pass
	64QAM	3557.5	75	0	13.508	/	Pass
		3625	75	0	13.529	/	Pass
		3692.5	75	0	13.490	/	Pass
	256QAM	3557.5	75	0	13.505	/	Pass
		3625	75	0	13.490	/	Pass
		3692.5	75	0	13.475	/	Pass
20	QPSK	3560	100	0	18.029	/	Pass
		3625	100	0	18.049	/	Pass
		3690	100	0	18.104	/	Pass
	16QAM	3560	100	0	18.048	/	Pass
		3625	100	0	18.089	/	Pass
		3690	100	0	18.070	/	Pass
	64QAM	3560	100	0	18.034	/	Pass
		3625	100	0	18.071	/	Pass
		3690	100	0	18.097	/	Pass
	256QAM	3560	100	0	18.081	/	Pass
		3625	100	0	18.076	/	Pass
		3690	100	0	18.048	/	Pass

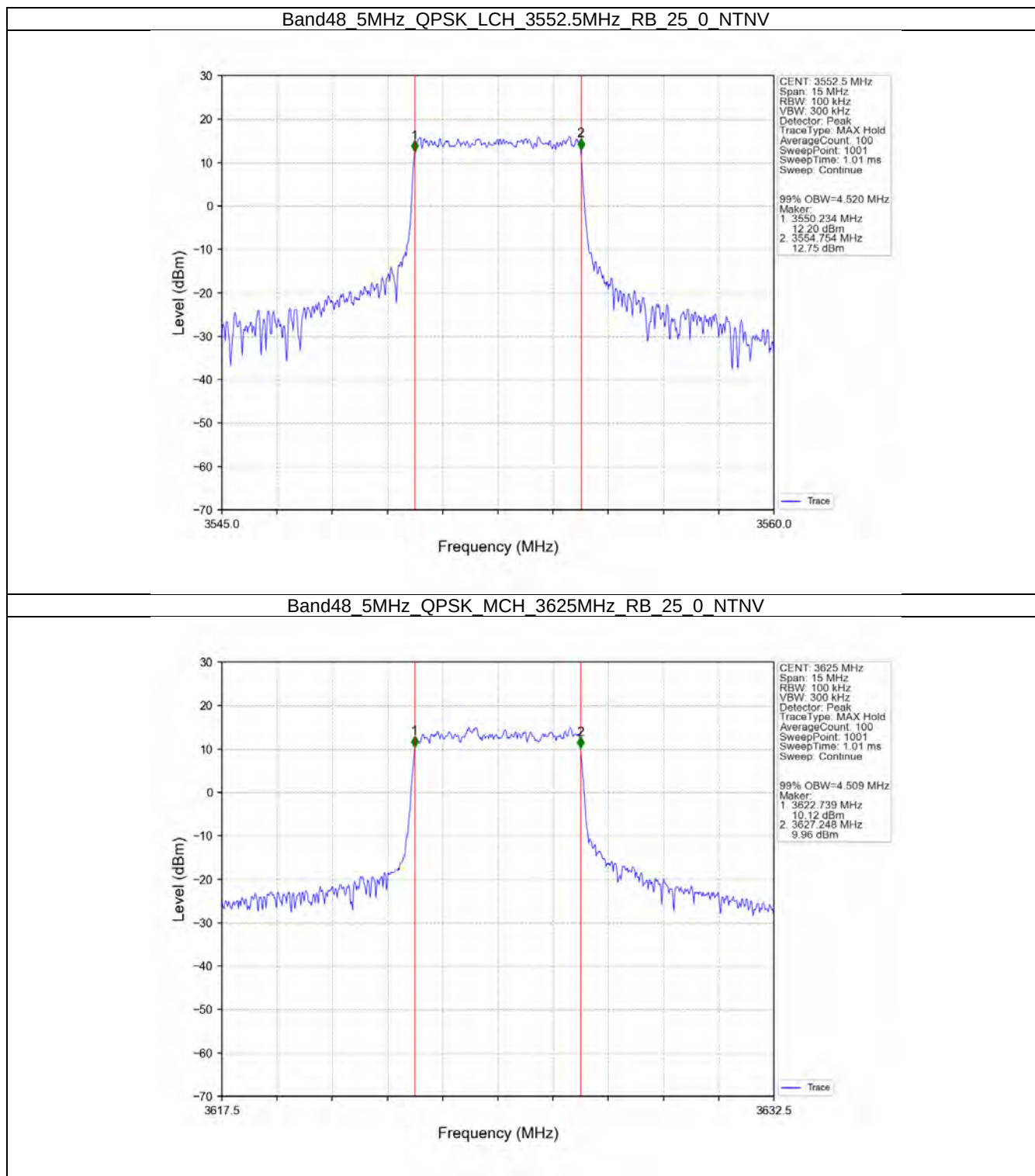
3.1.2 Band48_XDB

Band: 48 / NTV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	3552.5	25	0	4.953	/	Pass
		3625	25	0	5.008	/	Pass
		3697.5	25	0	5.028	/	Pass
	16QAM	3552.5	25	0	4.956	/	Pass
		3625	25	0	4.989	/	Pass
		3697.5	25	0	5.104	/	Pass
	64QAM	3552.5	25	0	5.095	/	Pass
		3625	25	0	4.937	/	Pass
		3697.5	25	0	5.154	/	Pass
	256QAM	3552.5	25	0	5.287	/	Pass
		3625	25	0	4.961	/	Pass
		3697.5	25	0	5.011	/	Pass
10	QPSK	3555	50	0	10.284	/	Pass
		3625	50	0	10.102	/	Pass
		3695	50	0	10.180	/	Pass
	16QAM	3555	50	0	10.300	/	Pass
		3625	50	0	10.322	/	Pass
		3695	50	0	10.179	/	Pass
	64QAM	3555	50	0	10.241	/	Pass
		3625	50	0	9.972	/	Pass
		3695	50	0	10.211	/	Pass
	256QAM	3555	50	0	9.866	/	Pass
		3625	50	0	10.149	/	Pass
		3695	50	0	10.101	/	Pass
15	QPSK	3557.5	75	0	14.908	/	Pass
		3625	75	0	14.987	/	Pass
		3692.5	75	0	14.838	/	Pass
	16QAM	3557.5	75	0	14.918	/	Pass
		3625	75	0	15.020	/	Pass

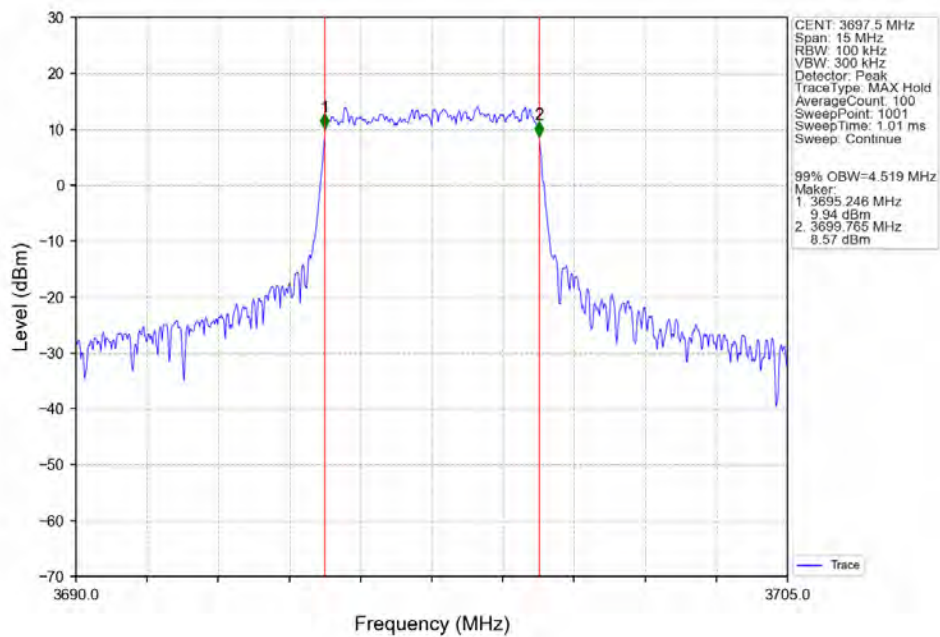
	64QAM	3692.5	75	0	14.799	/	Pass
		3557.5	75	0	14.901	/	Pass
		3625	75	0	14.810	/	Pass
		3692.5	75	0	14.933	/	Pass
	256QAM	3557.5	75	0	14.712	/	Pass
		3625	75	0	15.117	/	Pass
		3692.5	75	0	14.599	/	Pass
20	QPSK	3560	100	0	21.103	/	Pass
		3625	100	0	19.824	/	Pass
		3690	100	0	20.783	/	Pass
	16QAM	3560	100	0	21.307	/	Pass
		3625	100	0	20.959	/	Pass
		3690	100	0	21.917	/	Pass
	64QAM	3560	100	0	21.068	/	Pass
		3625	100	0	20.210	/	Pass
		3690	100	0	21.620	/	Pass
	256QAM	3560	100	0	20.832	/	Pass
		3625	100	0	20.231	/	Pass
		3690	100	0	21.947	/	Pass

3.2 Test Graph

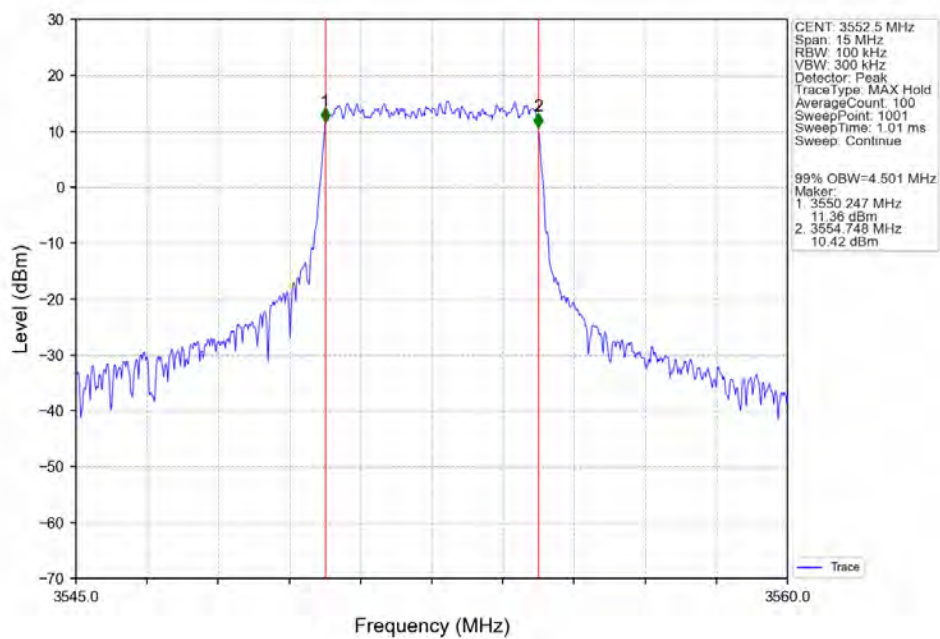
3.2.1 Band48_OBW



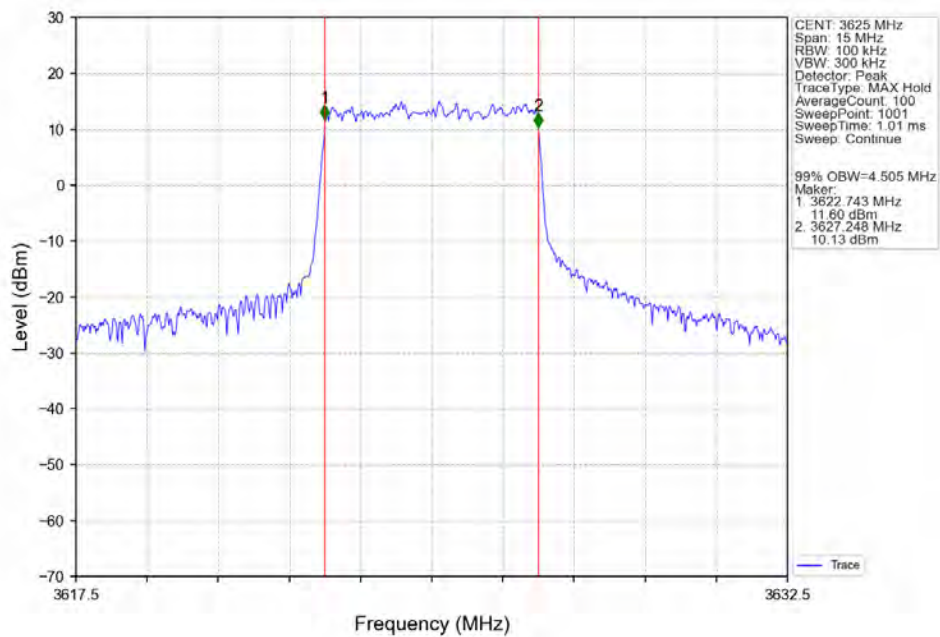
Band48 5MHz QPSK HCH 3697.5MHz RB 25 0 NTNV



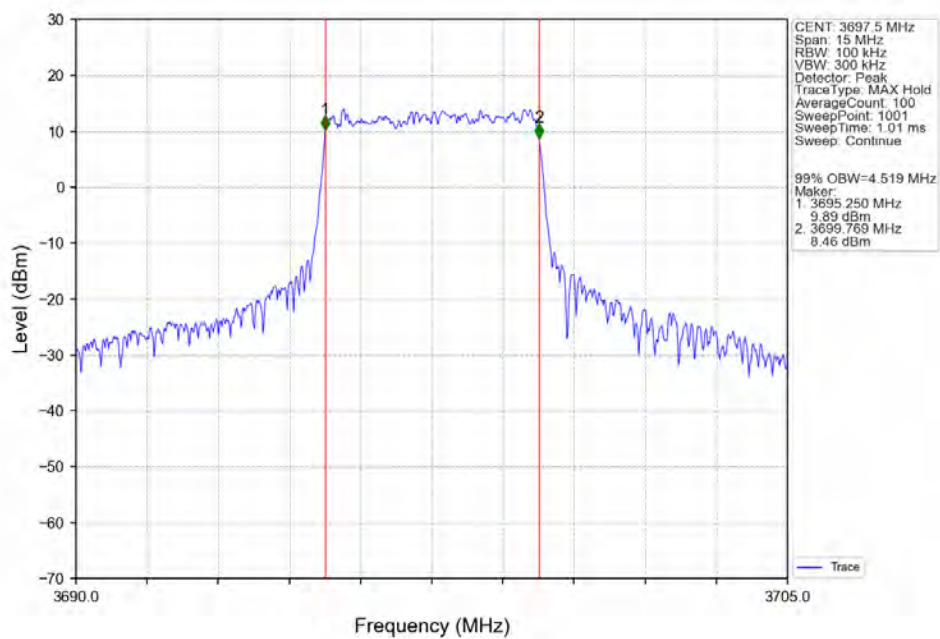
Band48 5MHz 16QAM LCH 3552.5MHz RB 25 0 NTNV



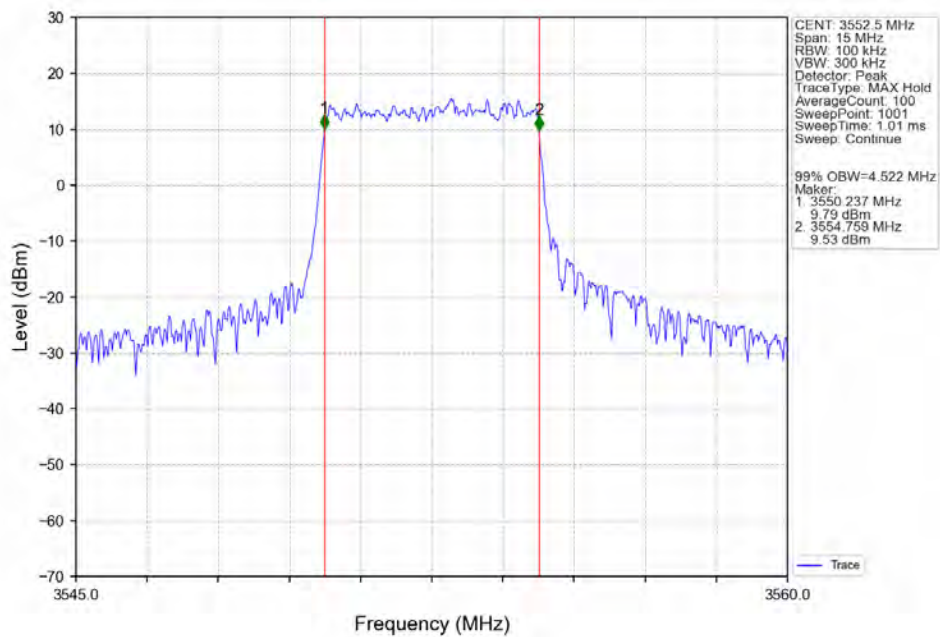
Band48 5MHz 16QAM MCH 3625MHz RB 25 0 NTNV



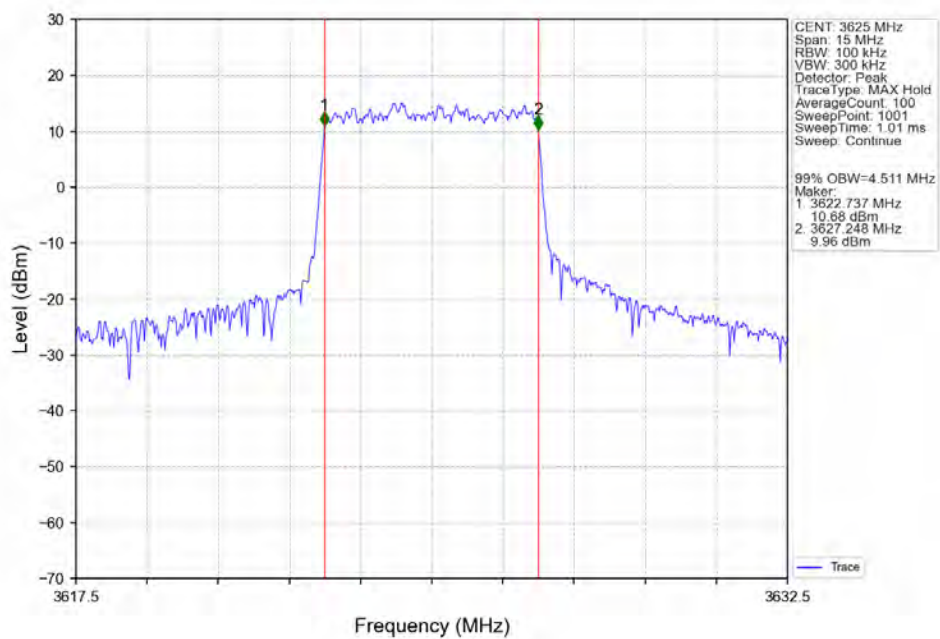
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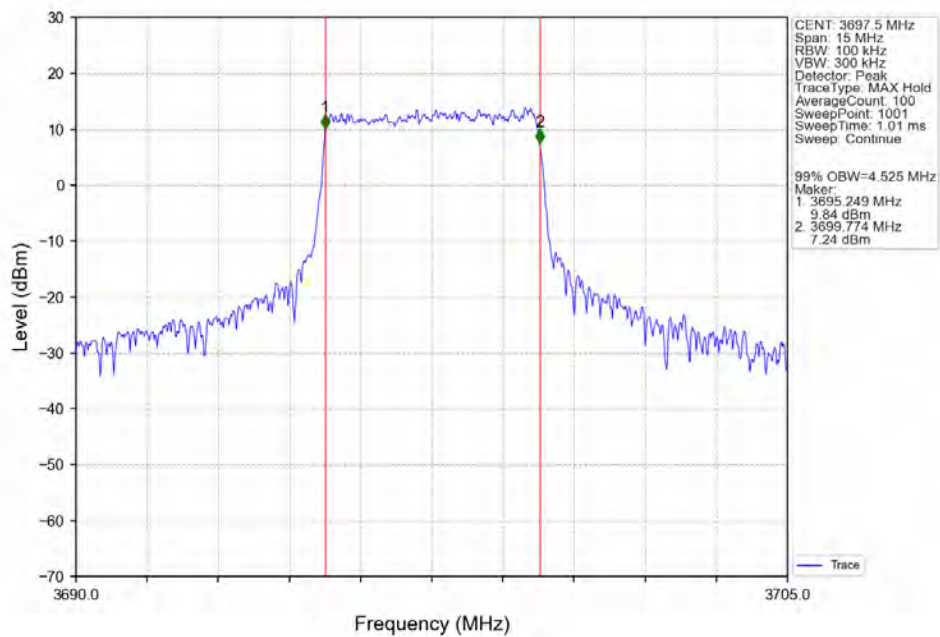
Band48 5MHz 64QAM LCH 3552.5MHz RB 25 0 NTNV



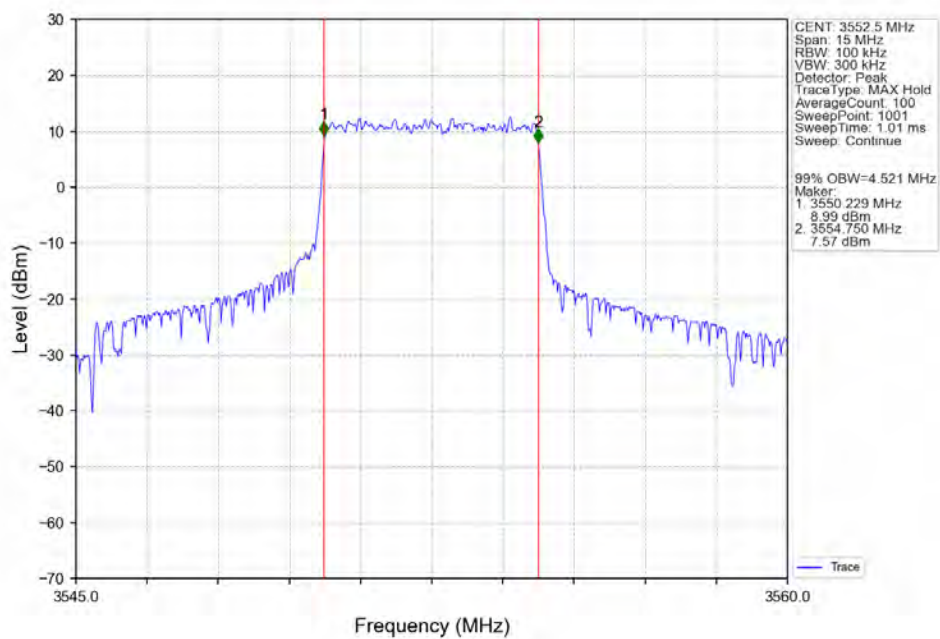
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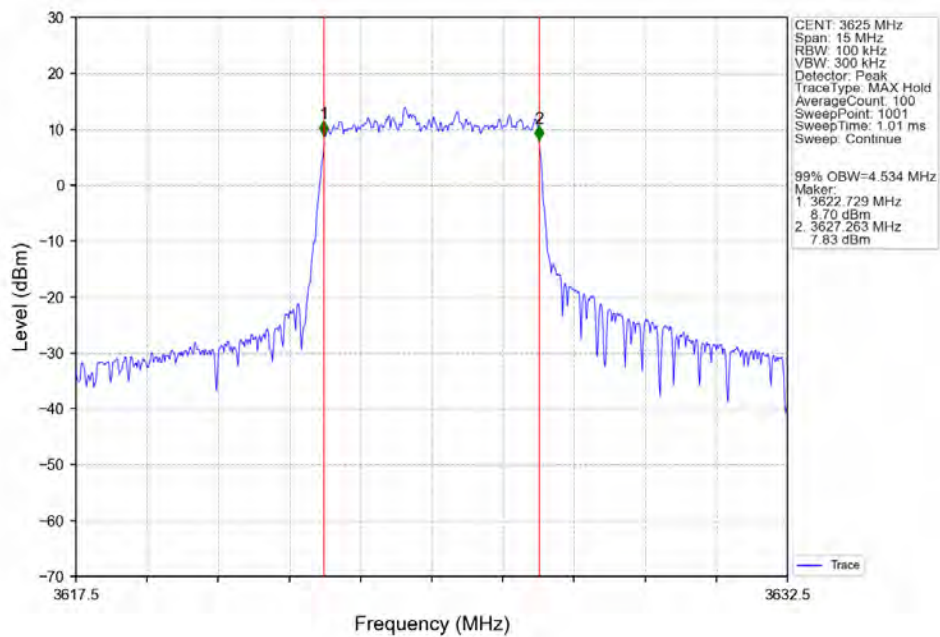
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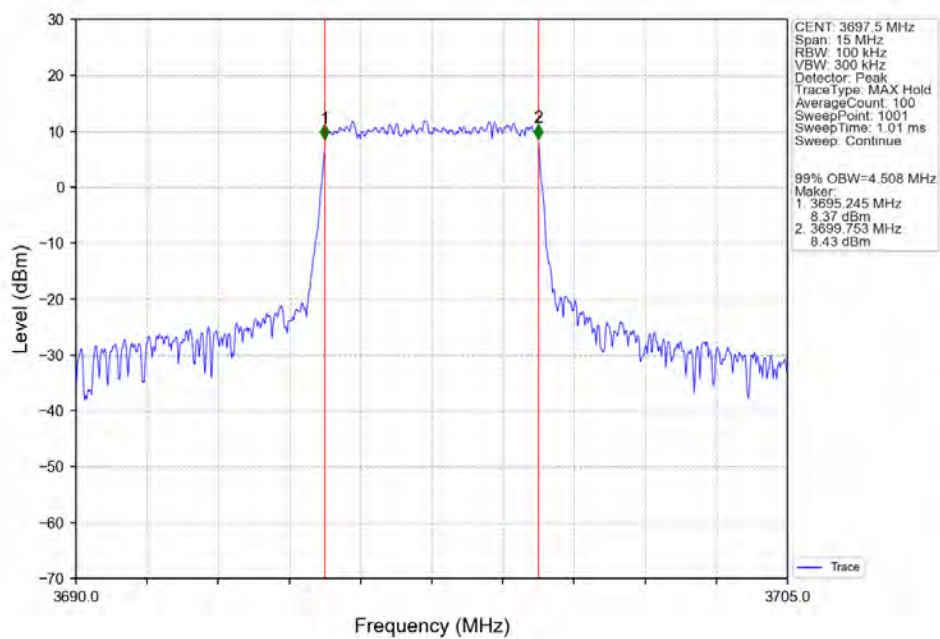
Band48 5MHz 256QAM LCH 3552.5MHz RB 25 0 NTNV



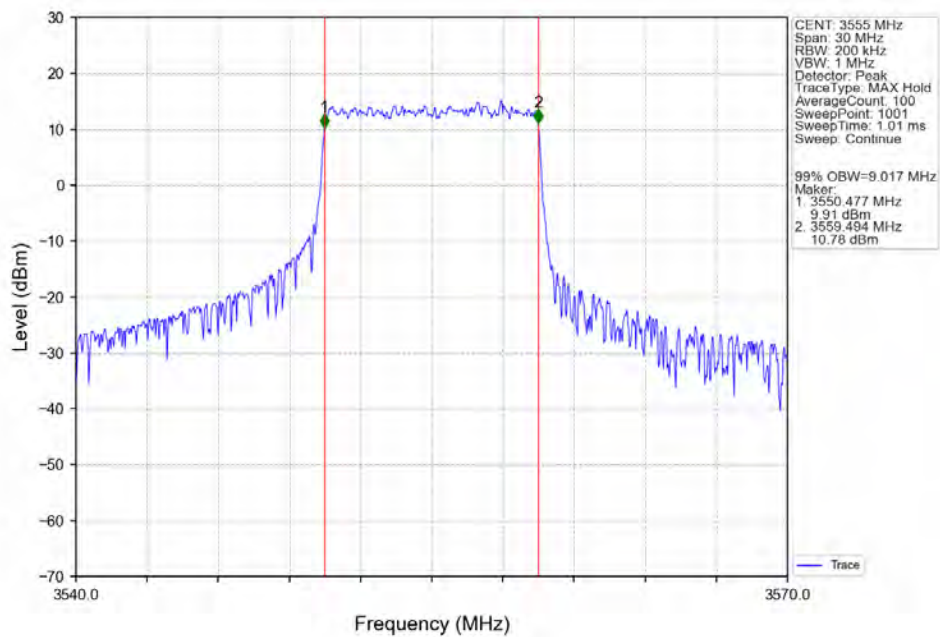
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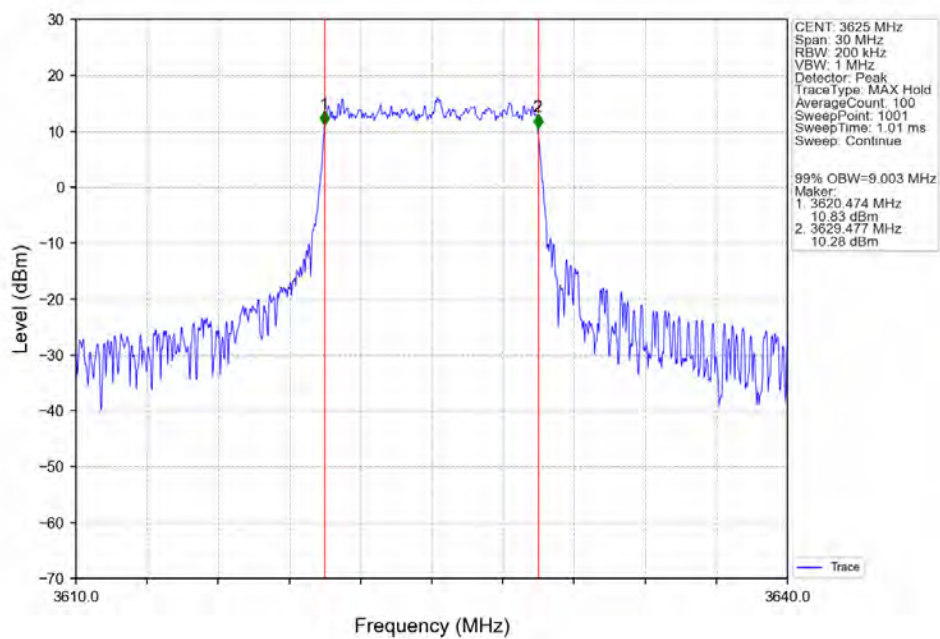
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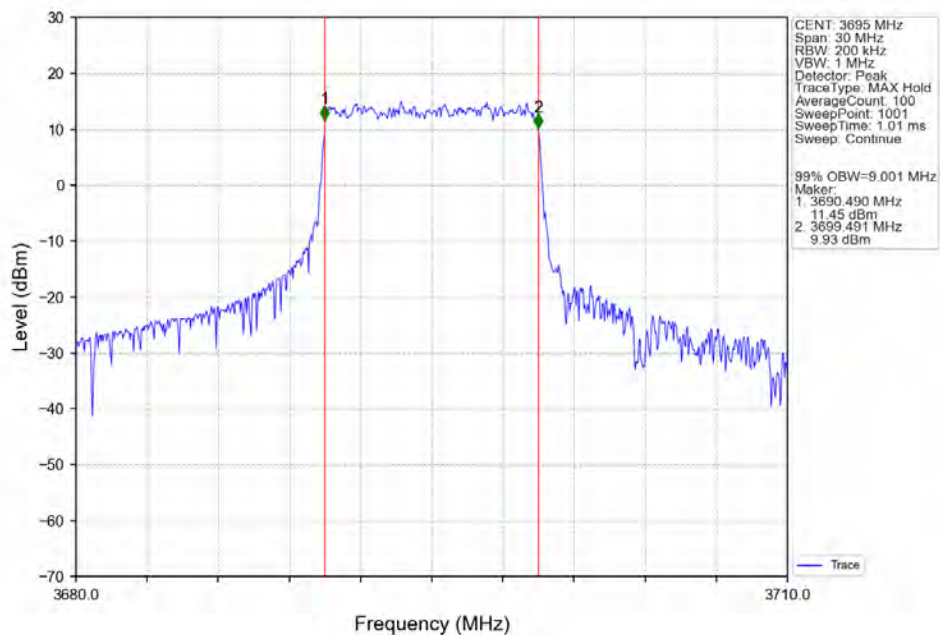
Band48 10MHz QPSK LCH 3555MHz RB 50 0 NTV



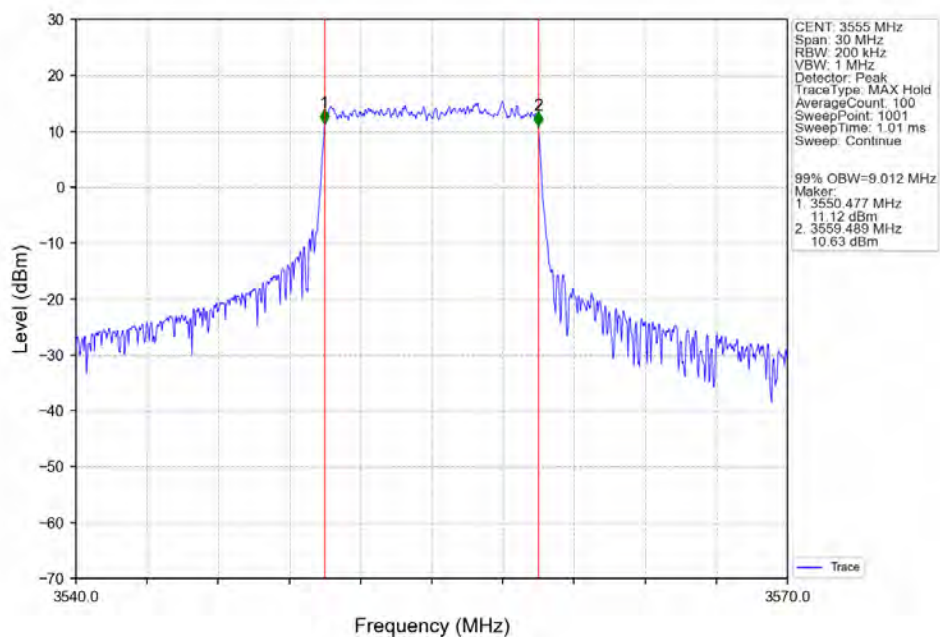
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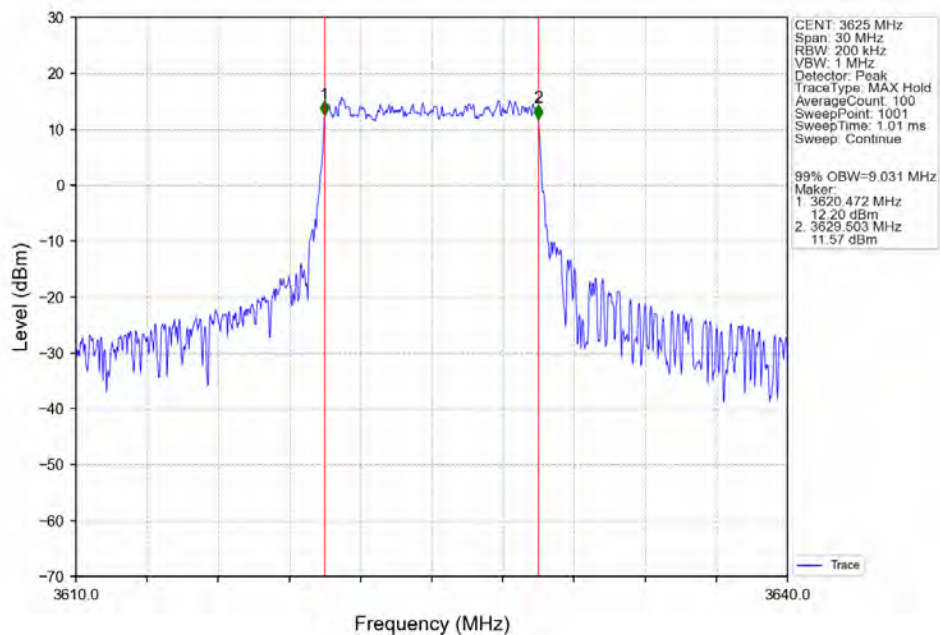
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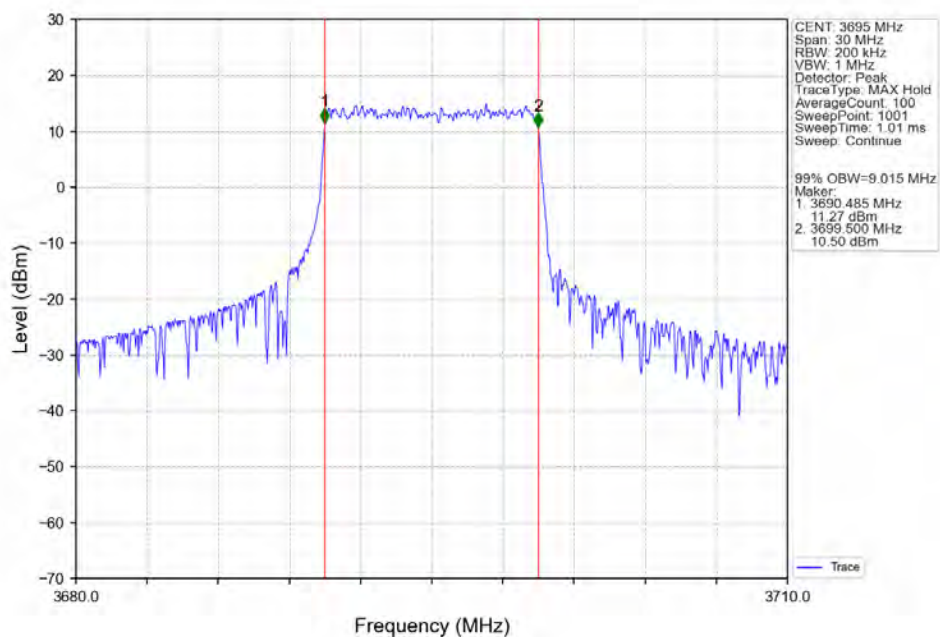
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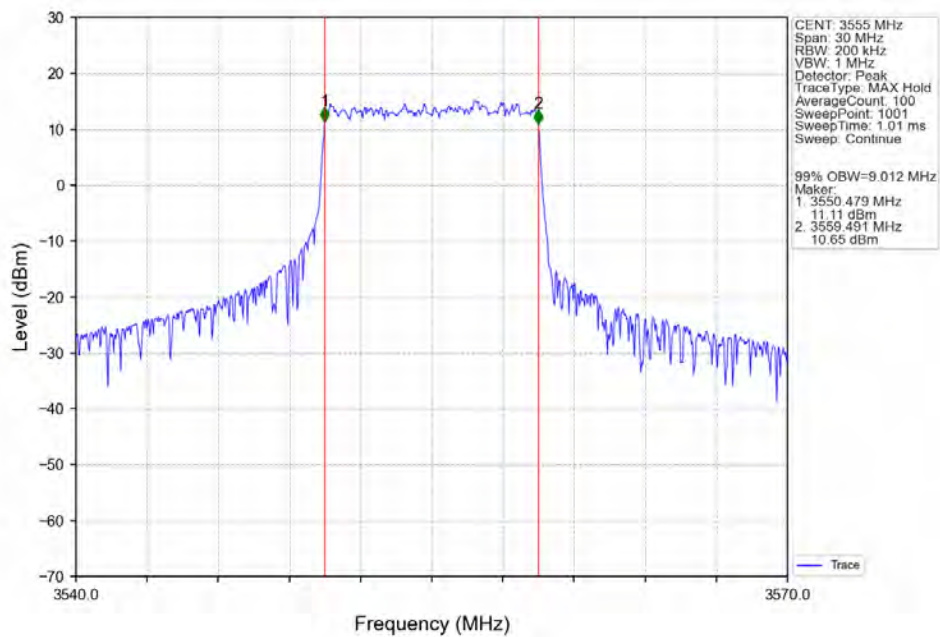
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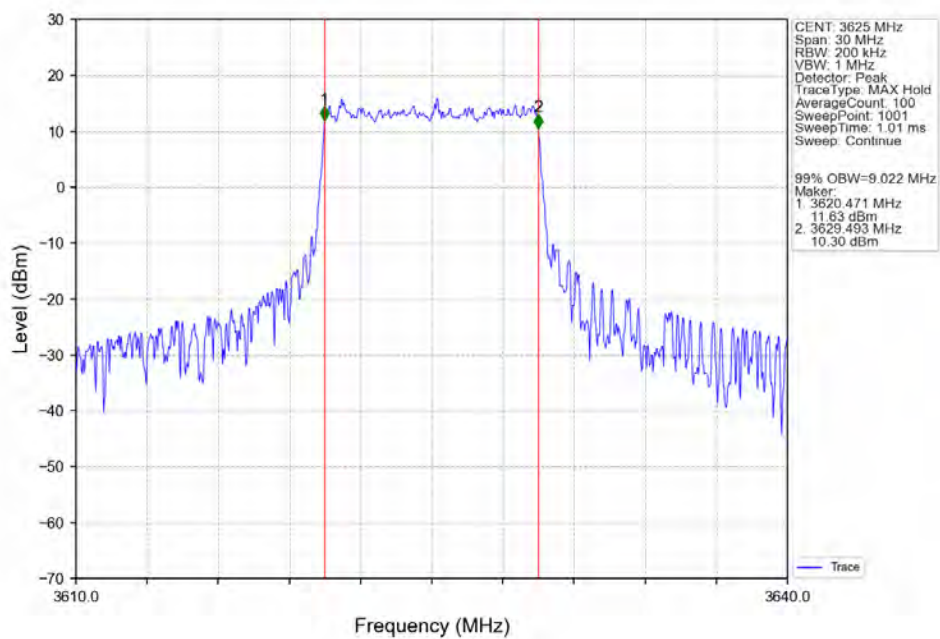
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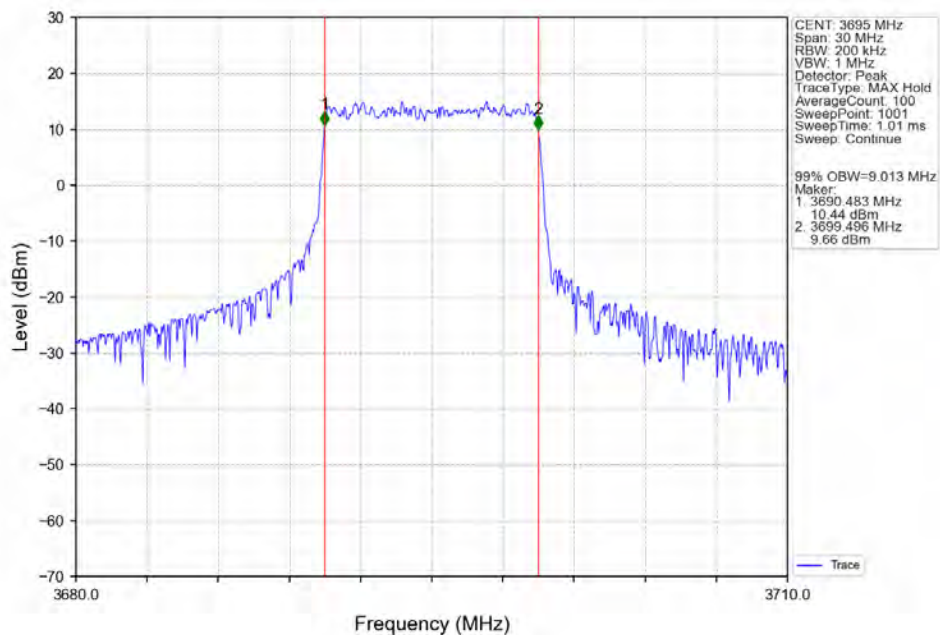
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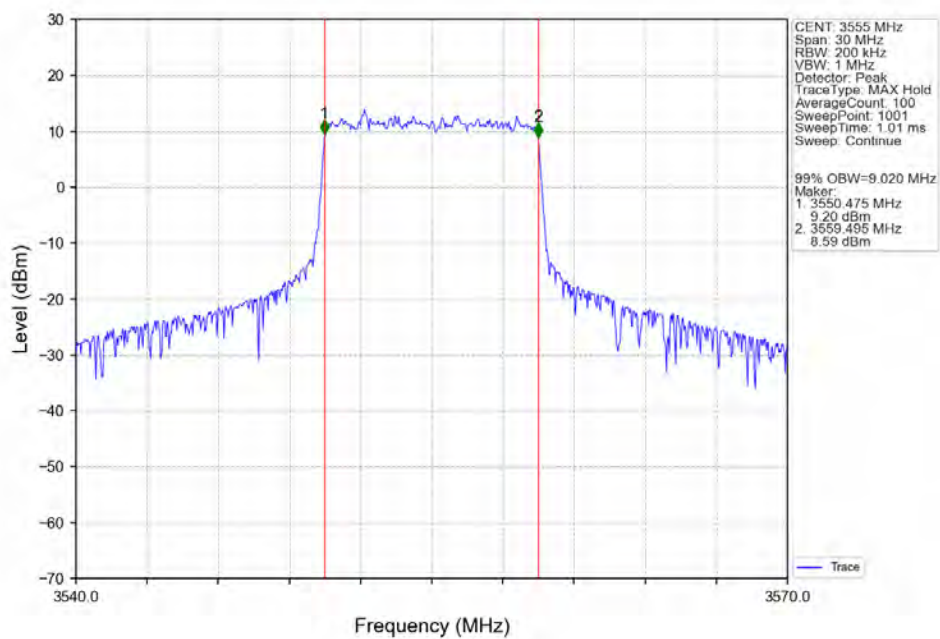
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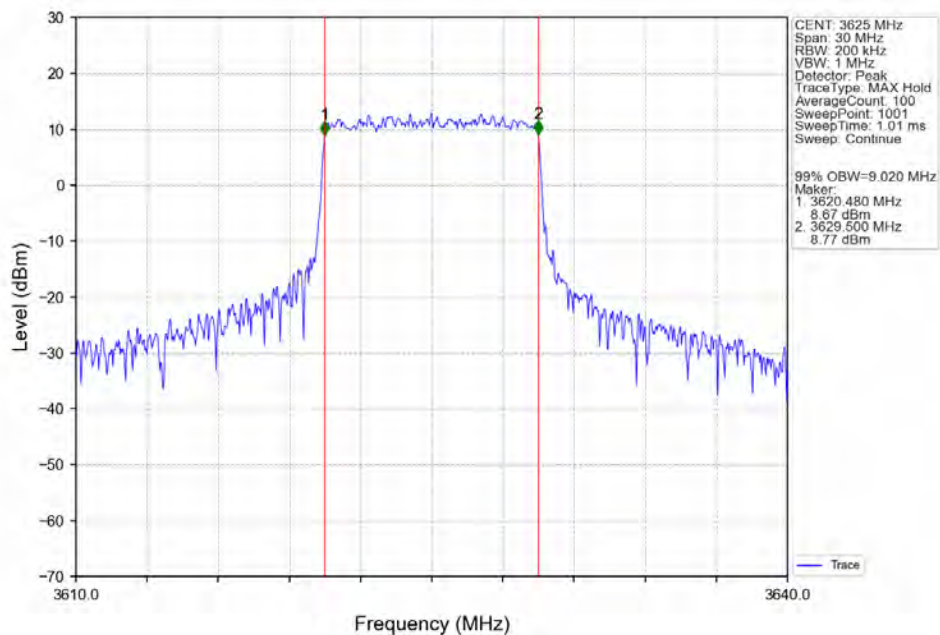
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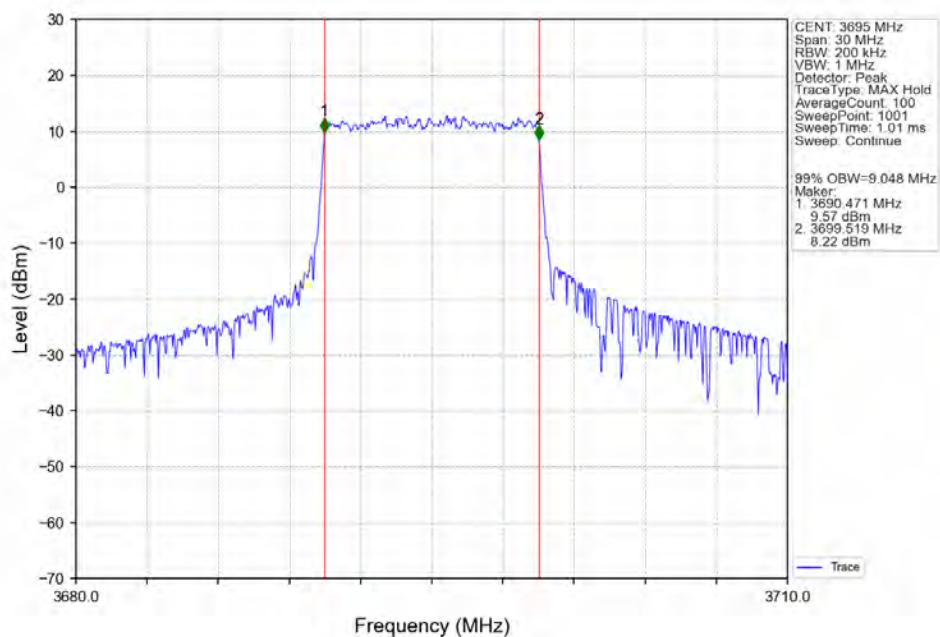
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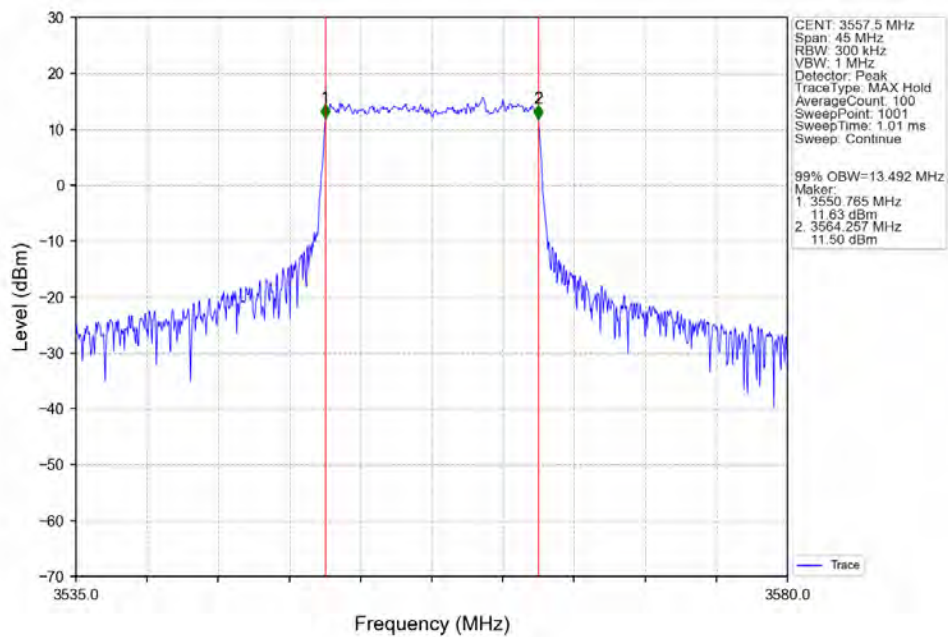
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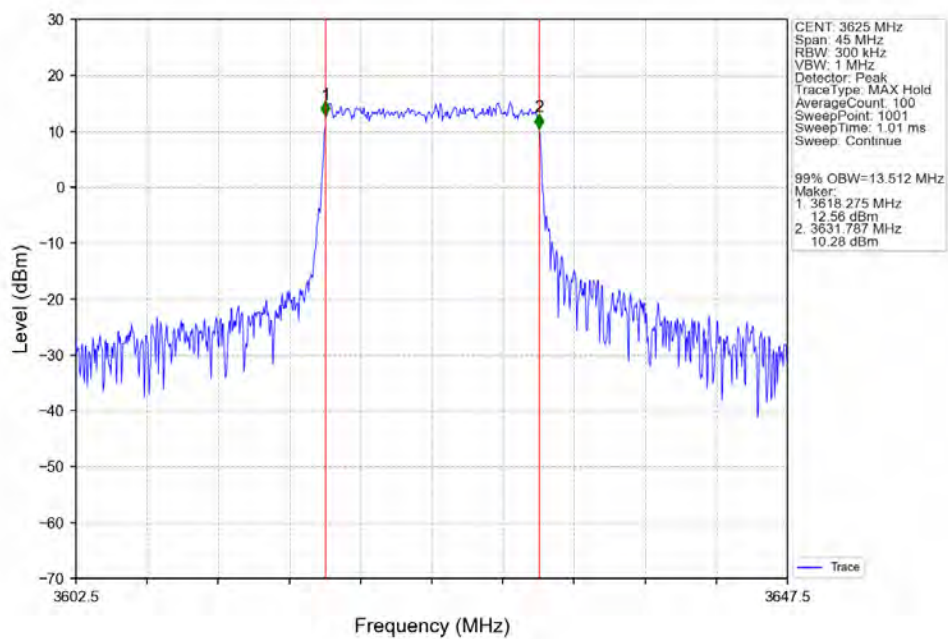
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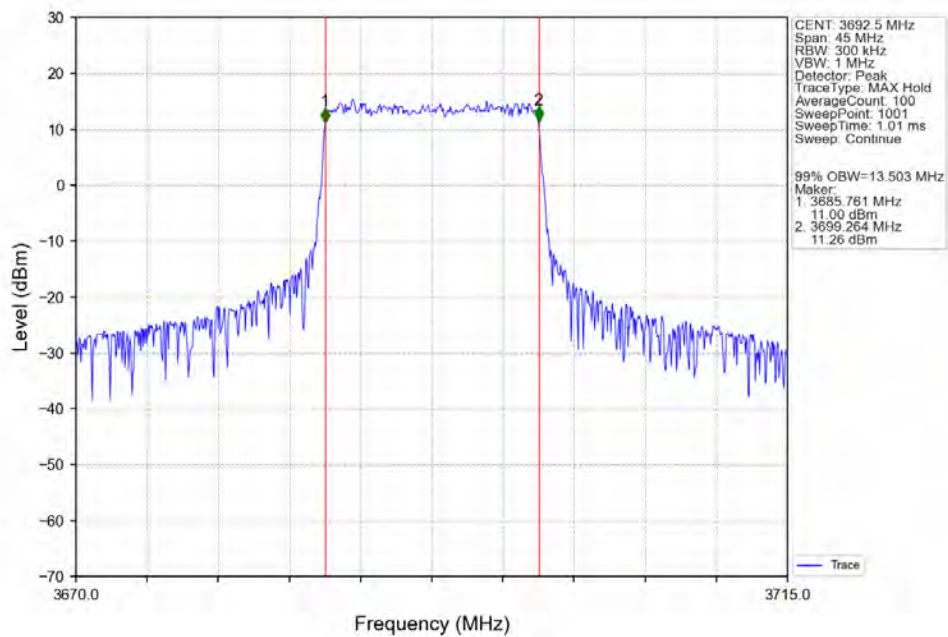
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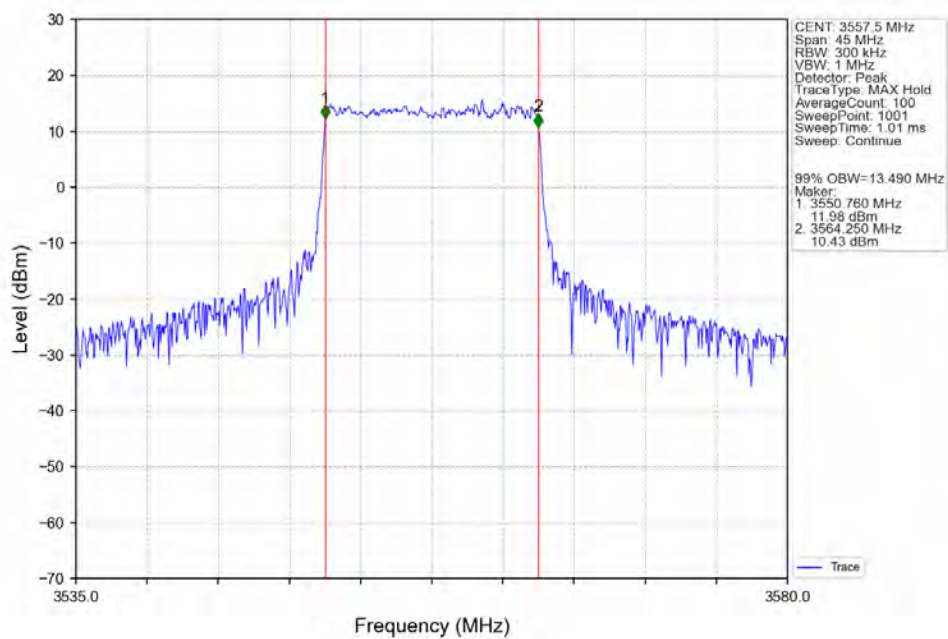
Band48 15MHz QPSK MCH 3625MHz RB 75 0 NTNV



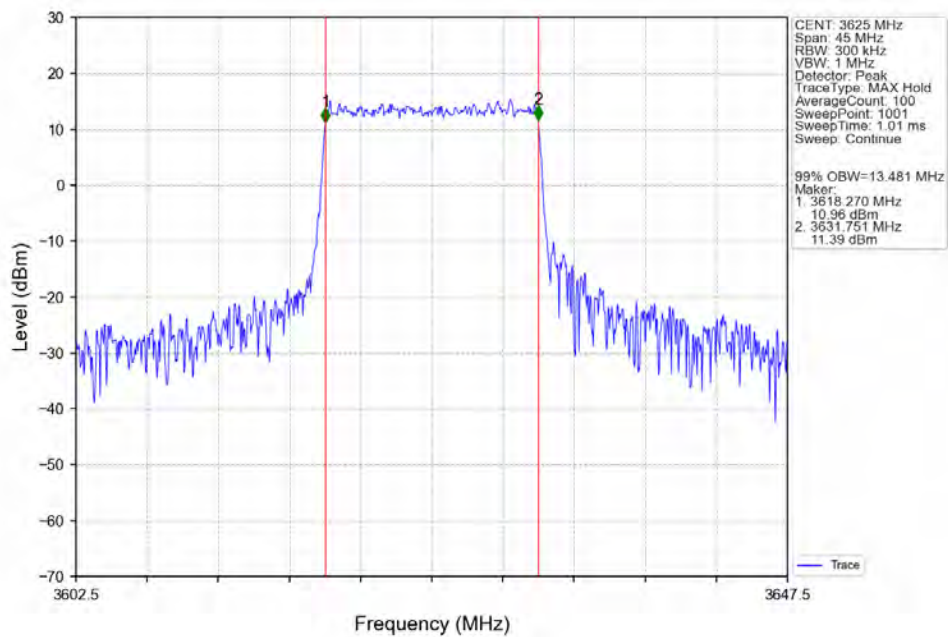
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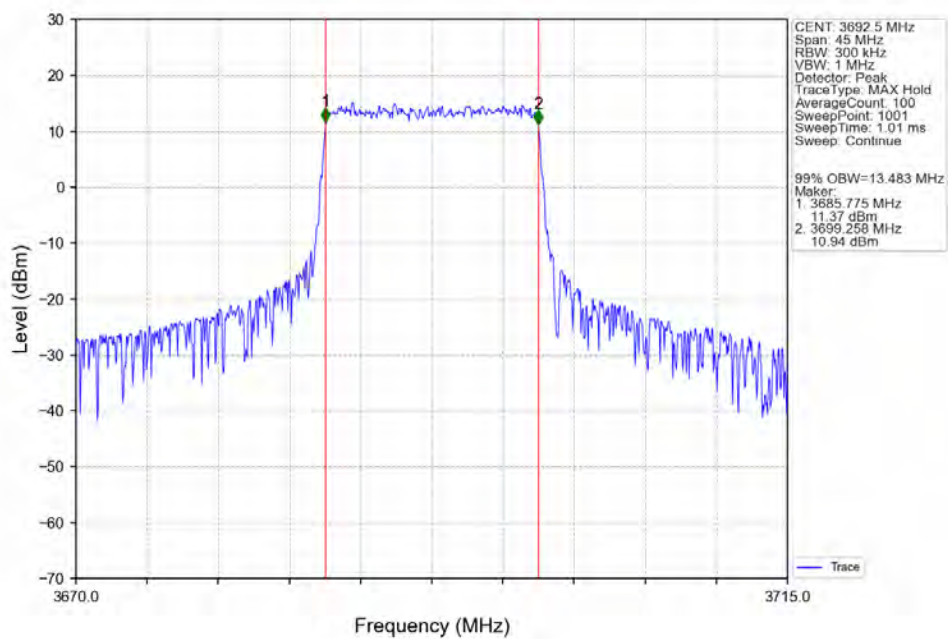
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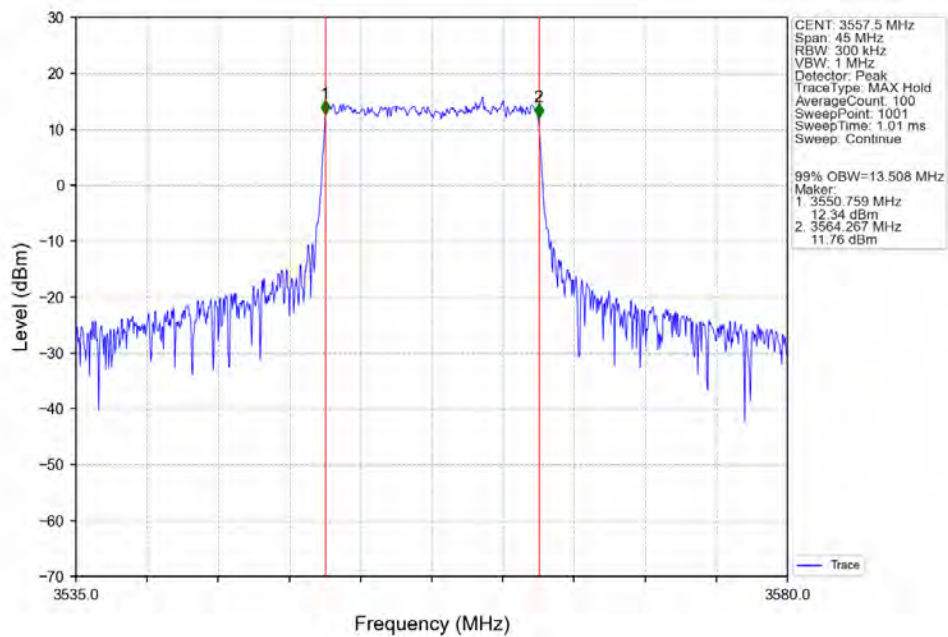
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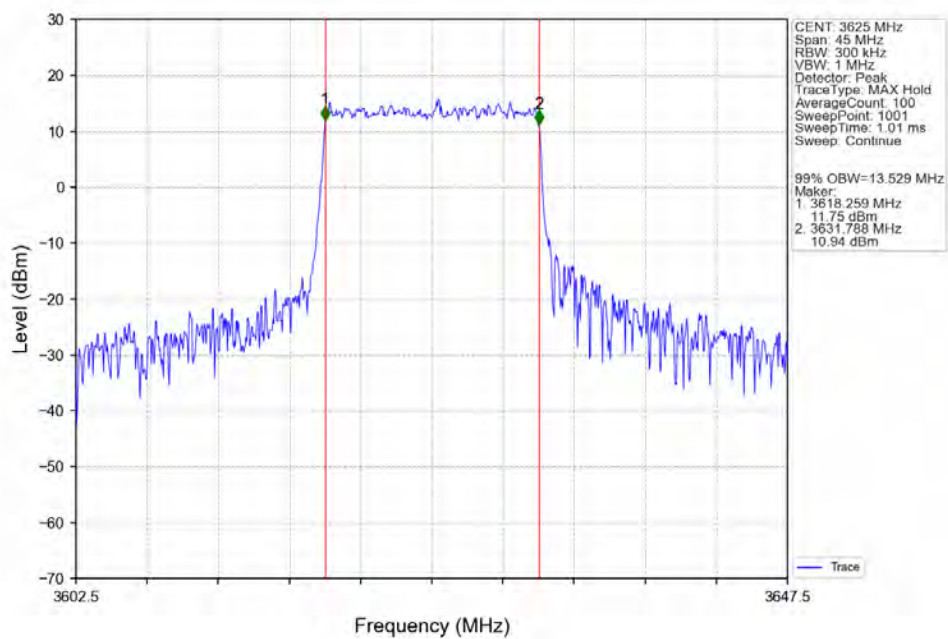
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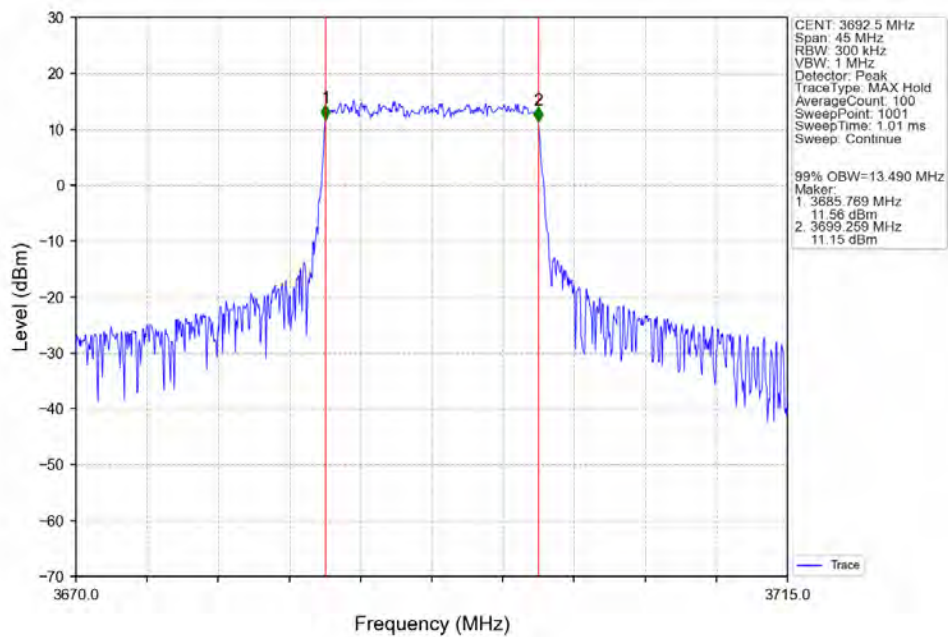
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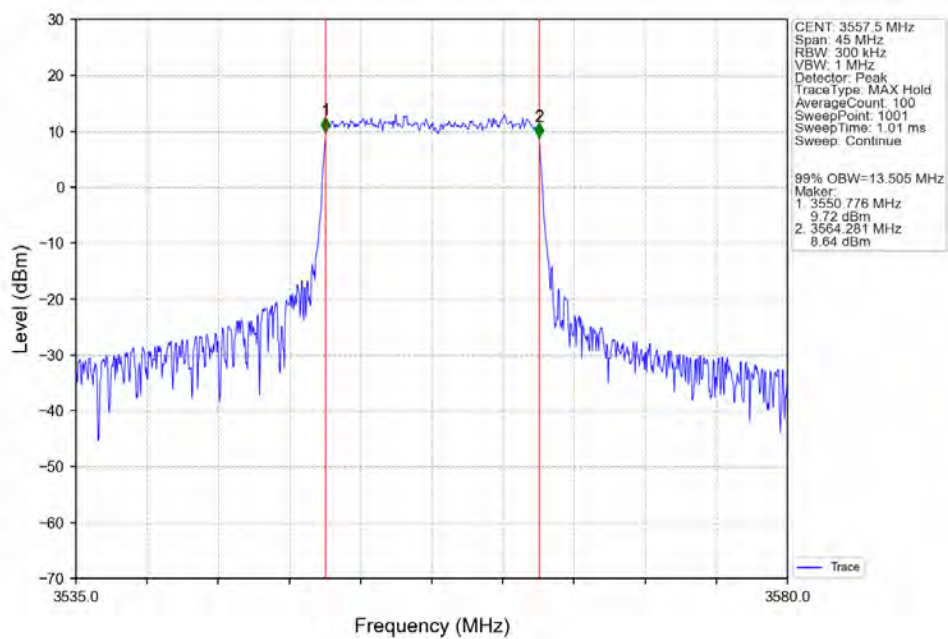
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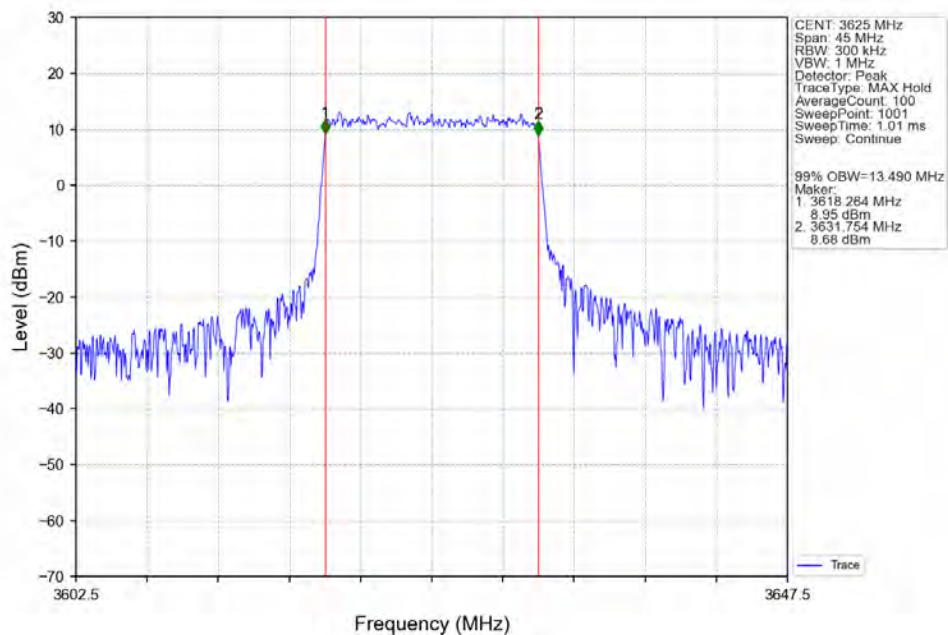
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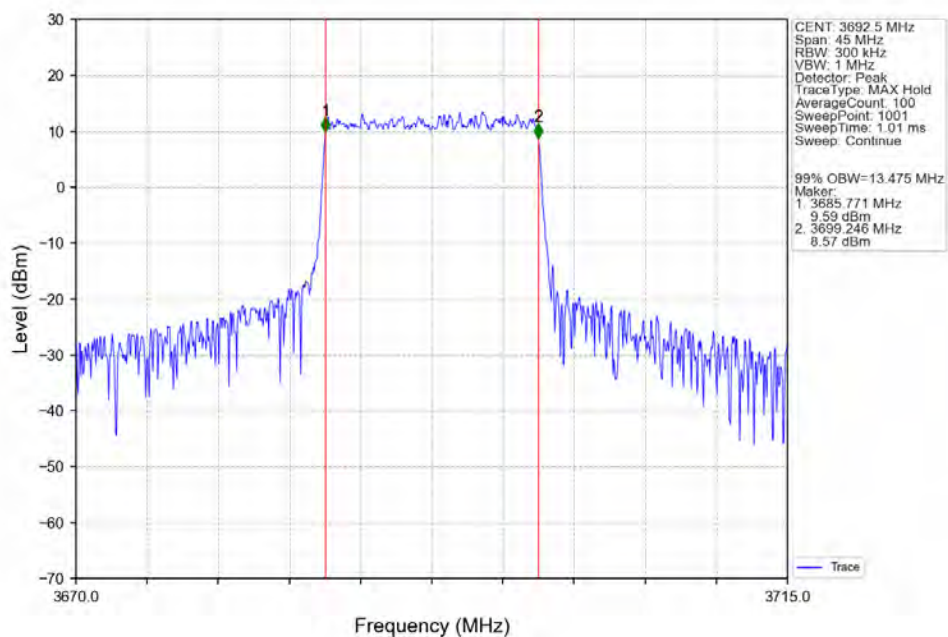
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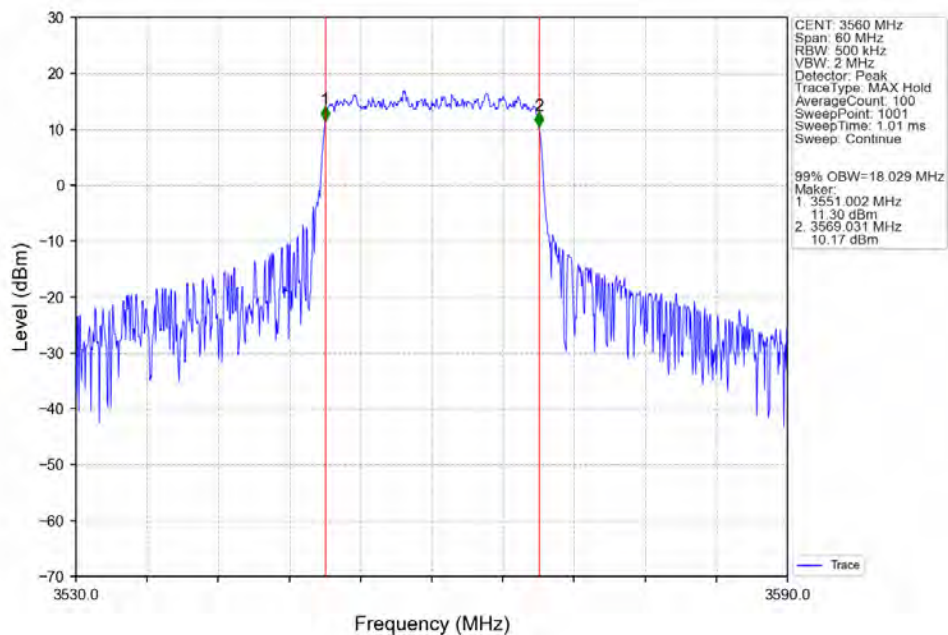
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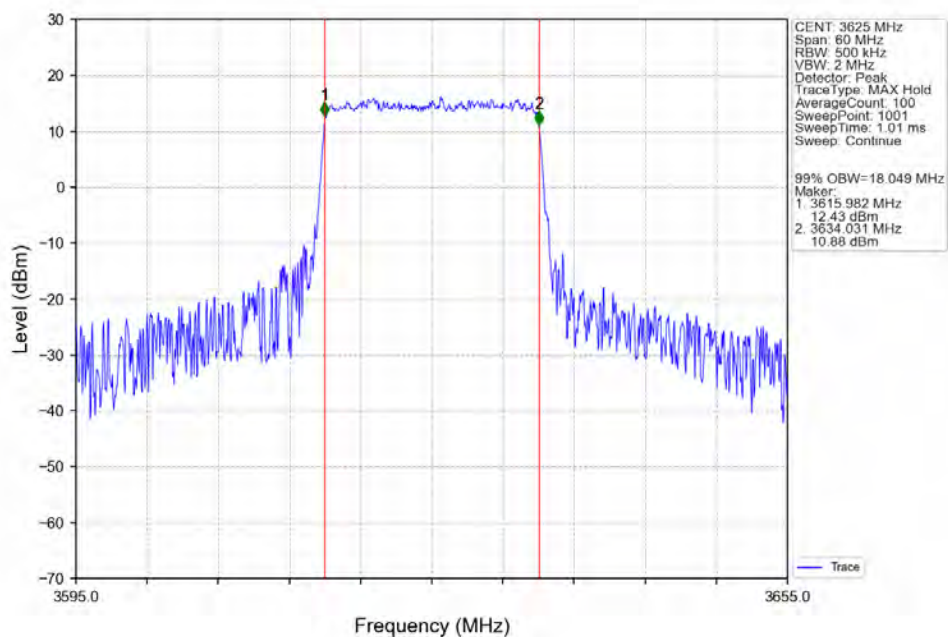
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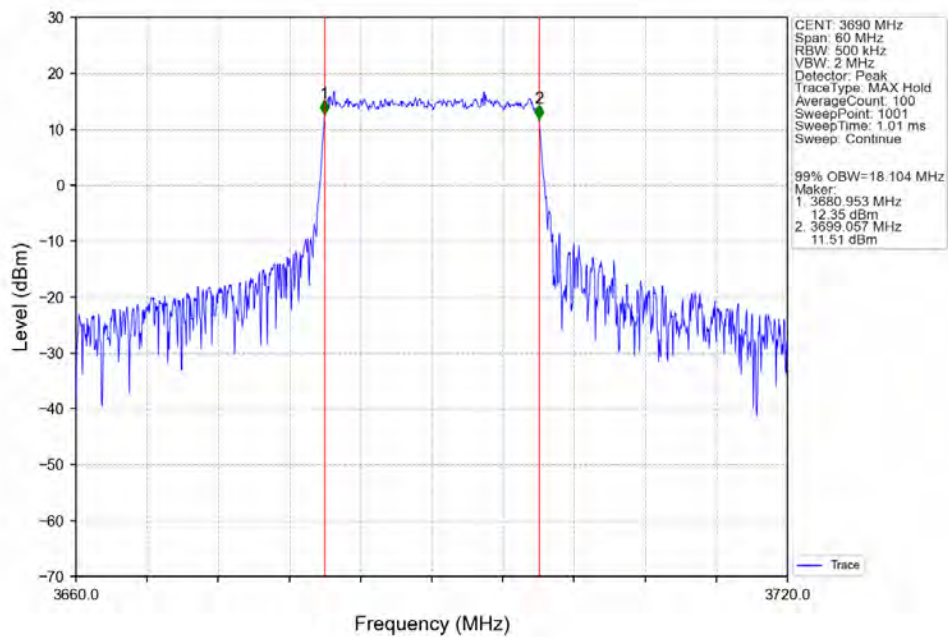
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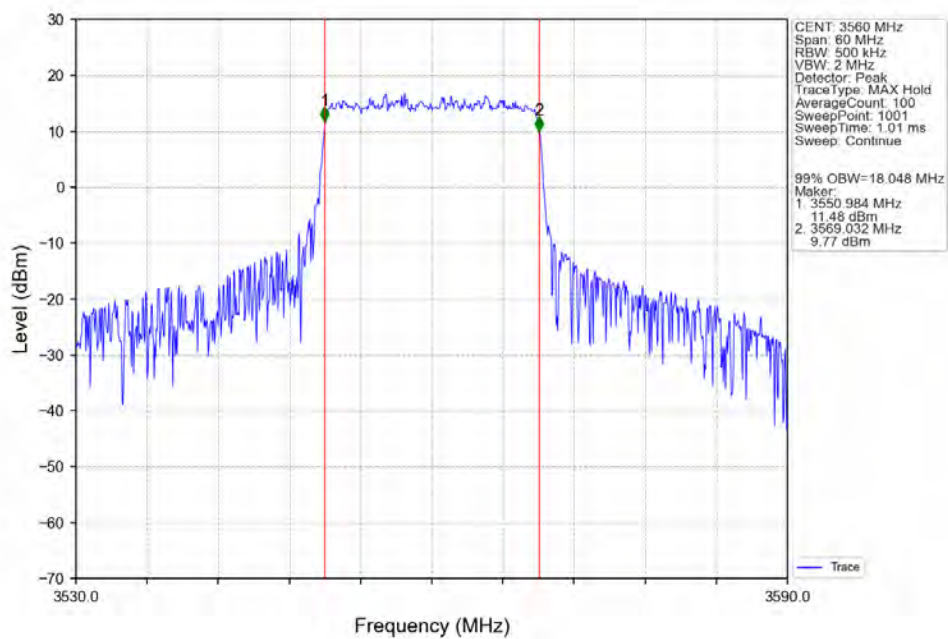
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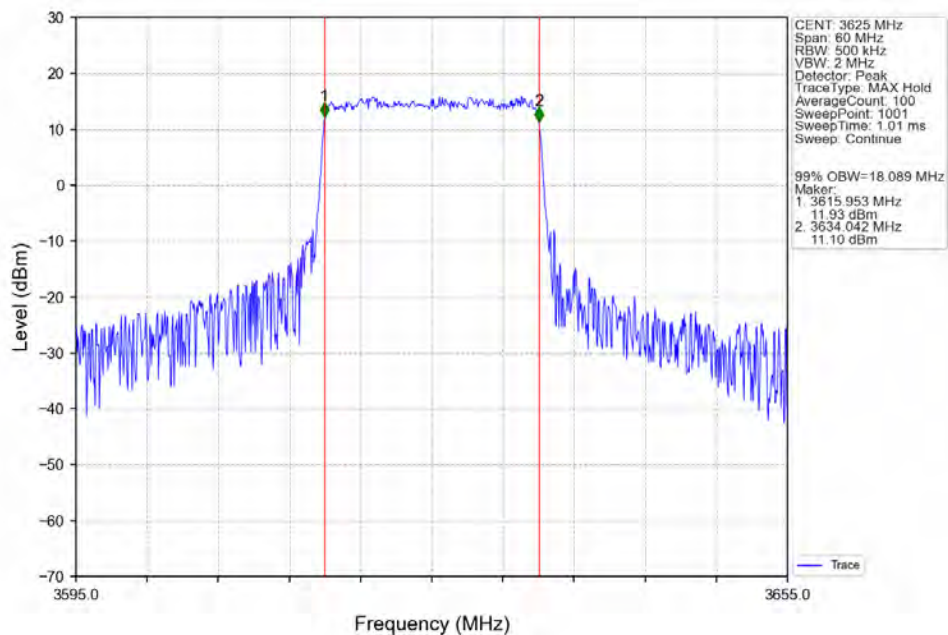
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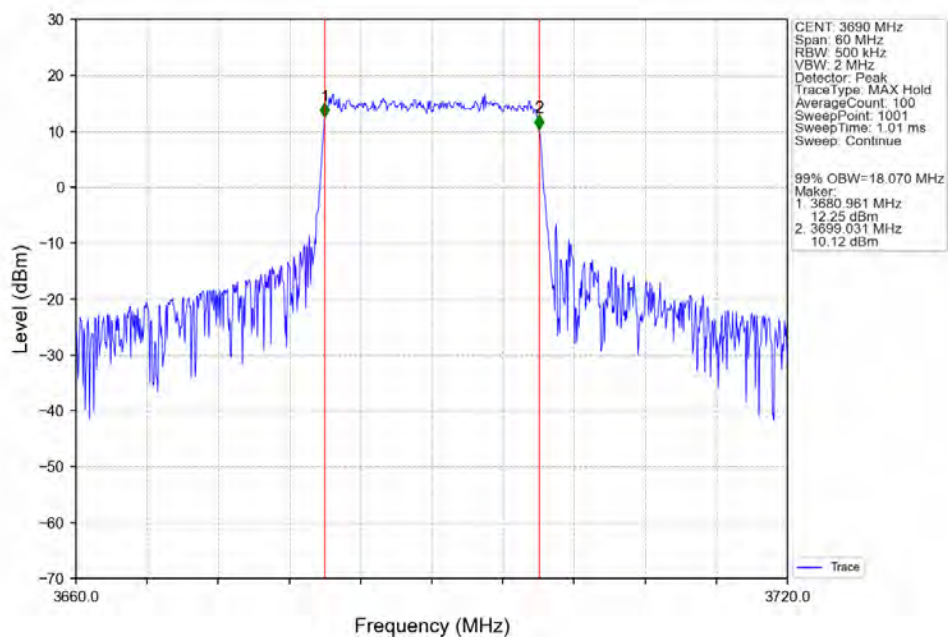
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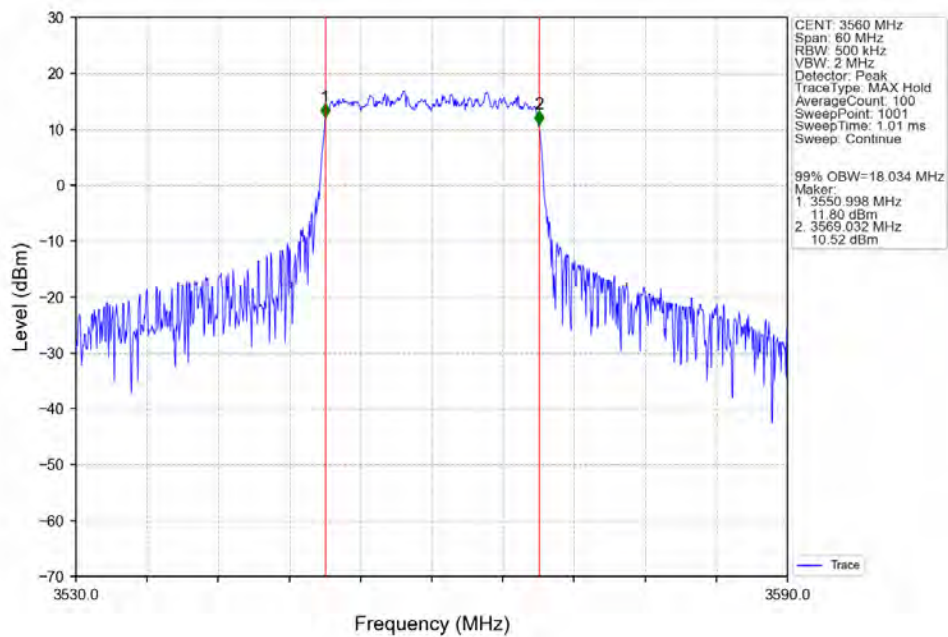
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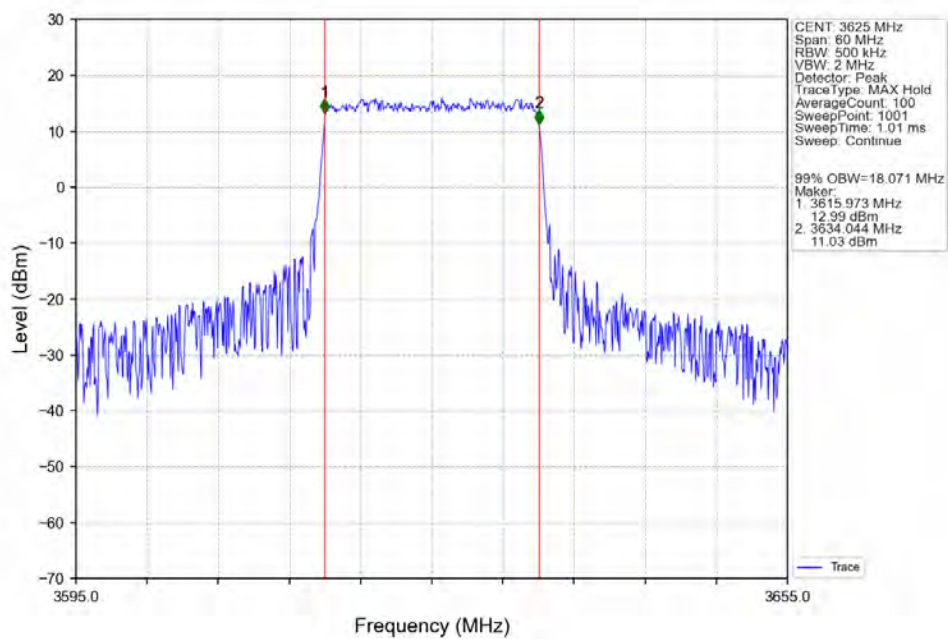
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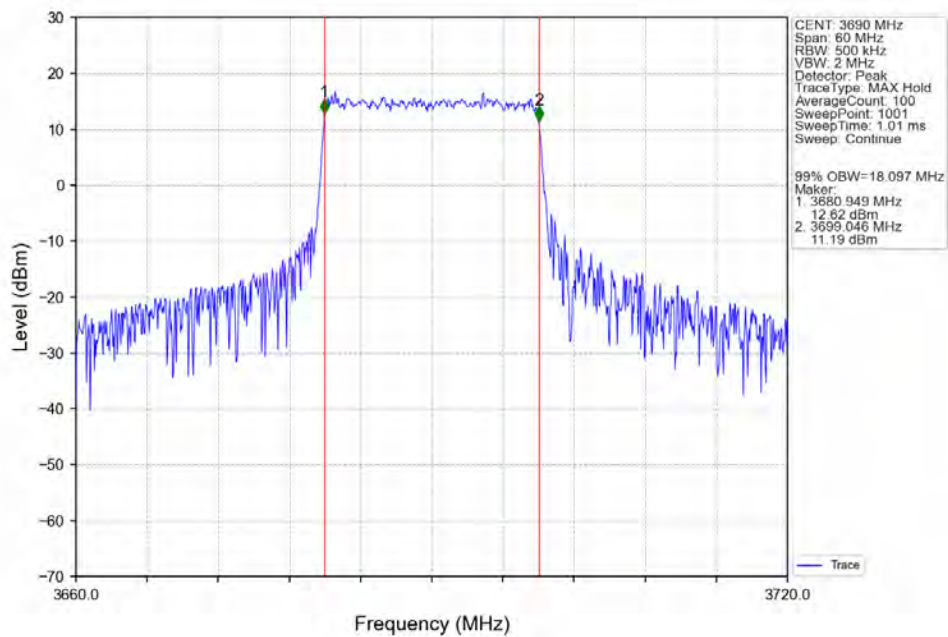
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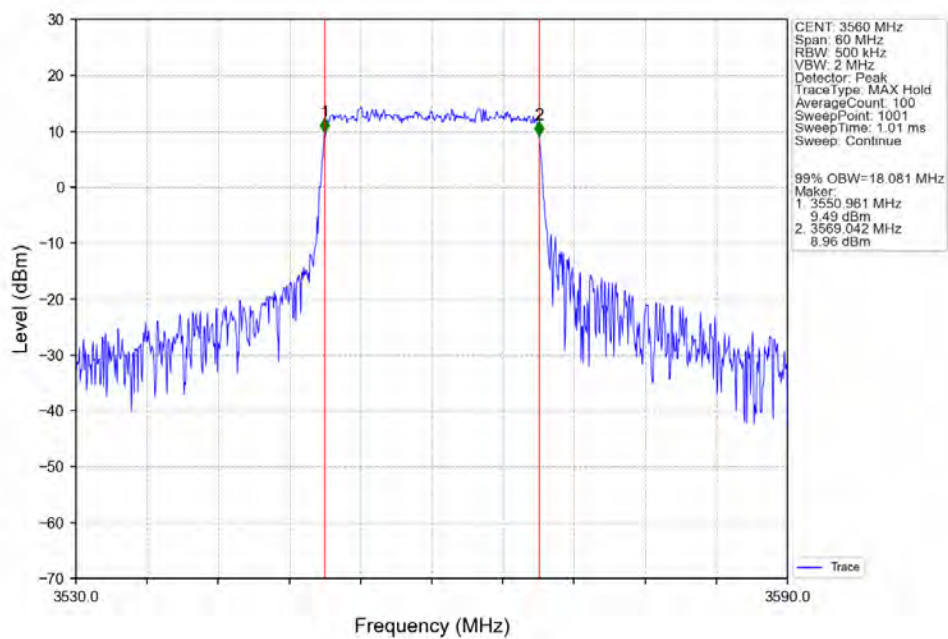
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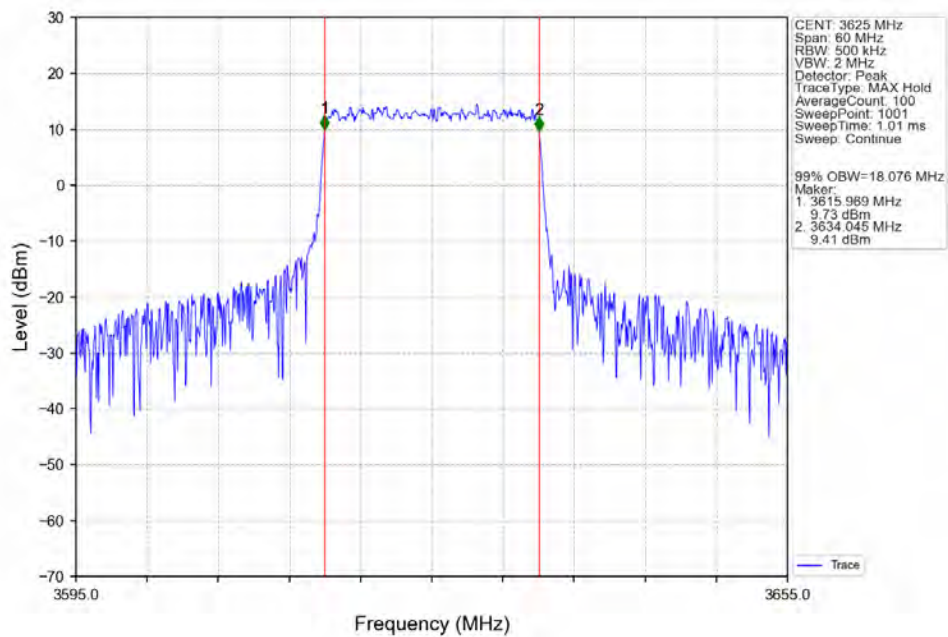
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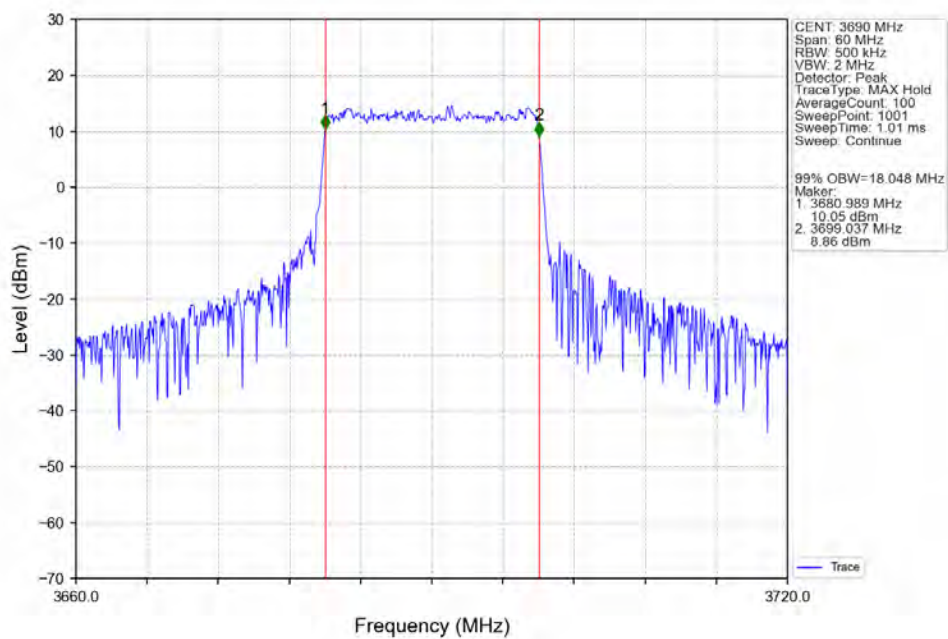
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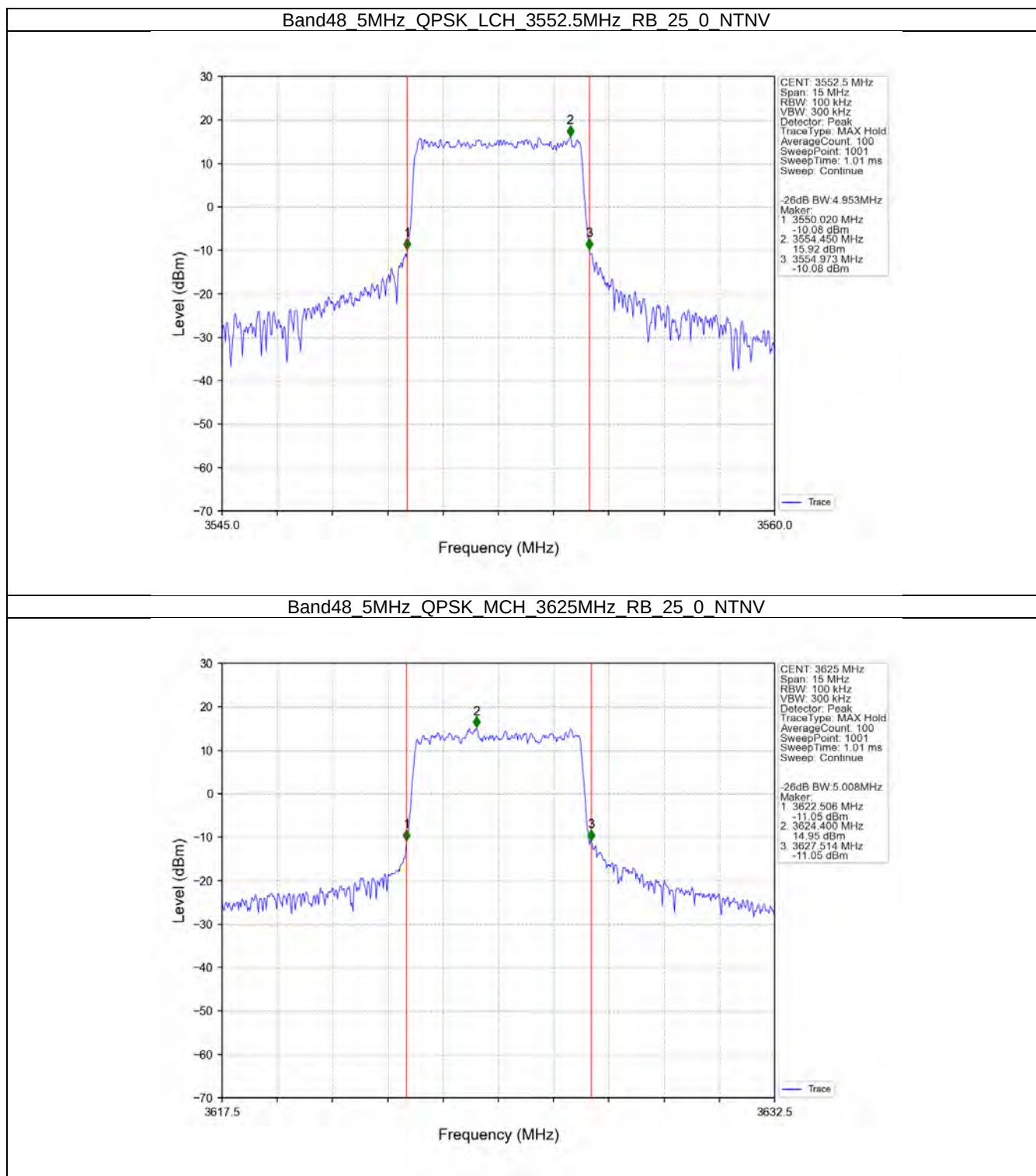
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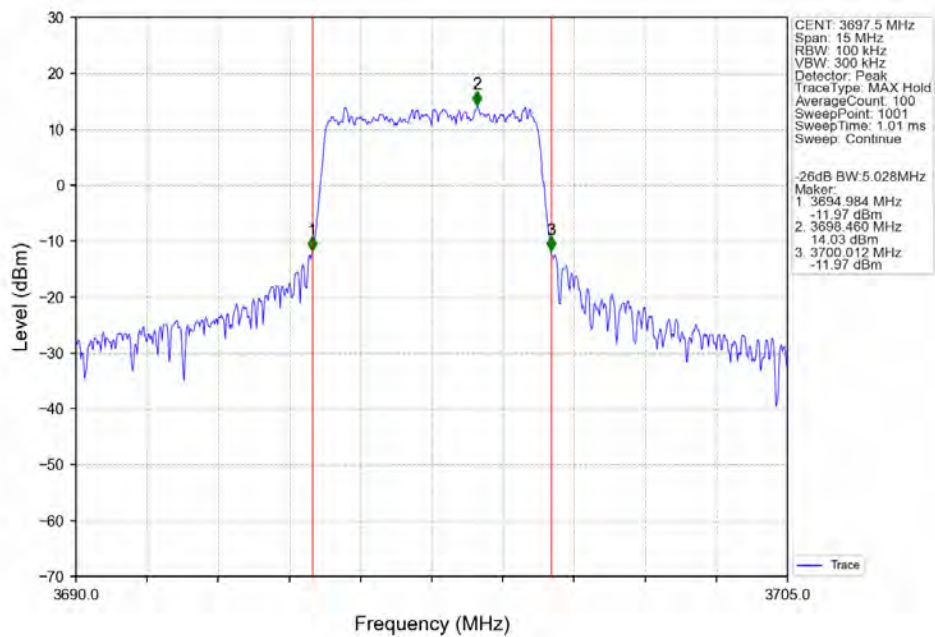
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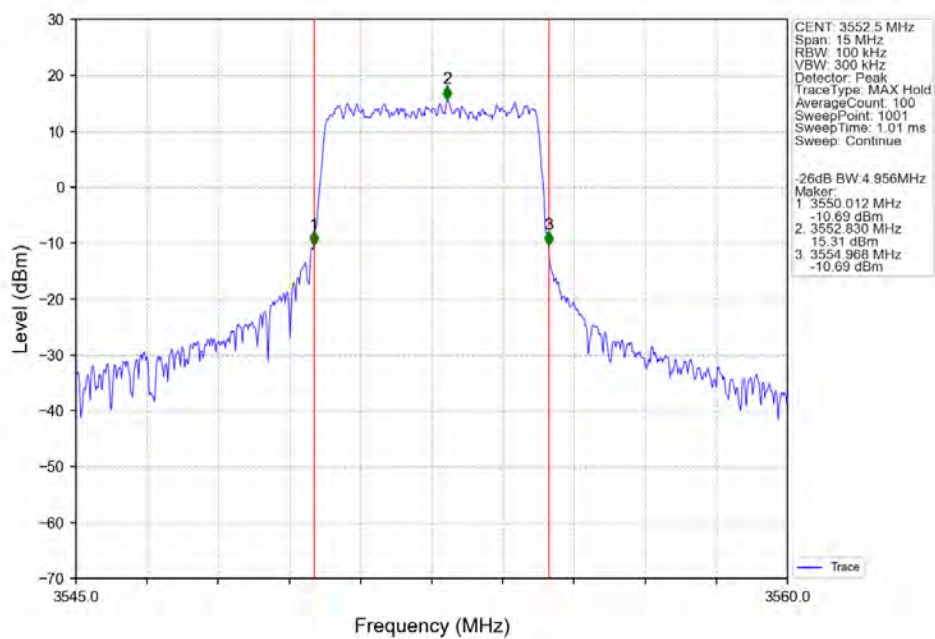
3.2.2 Band48_XDB



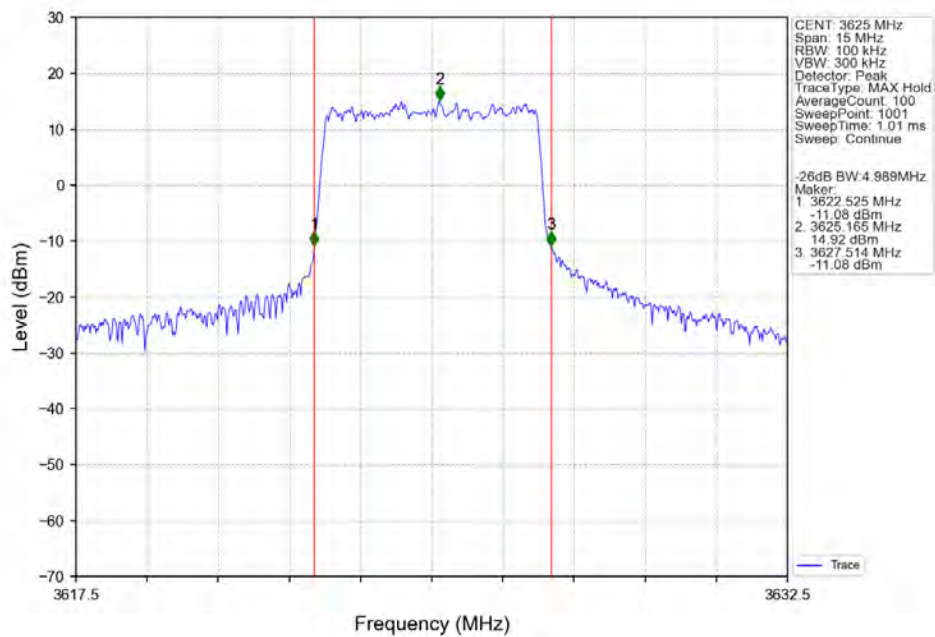
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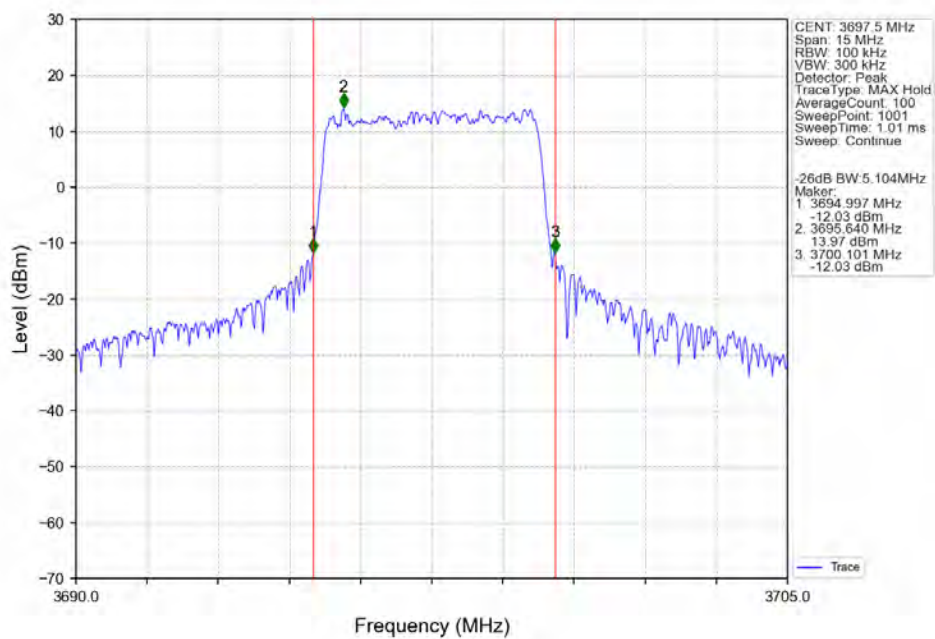
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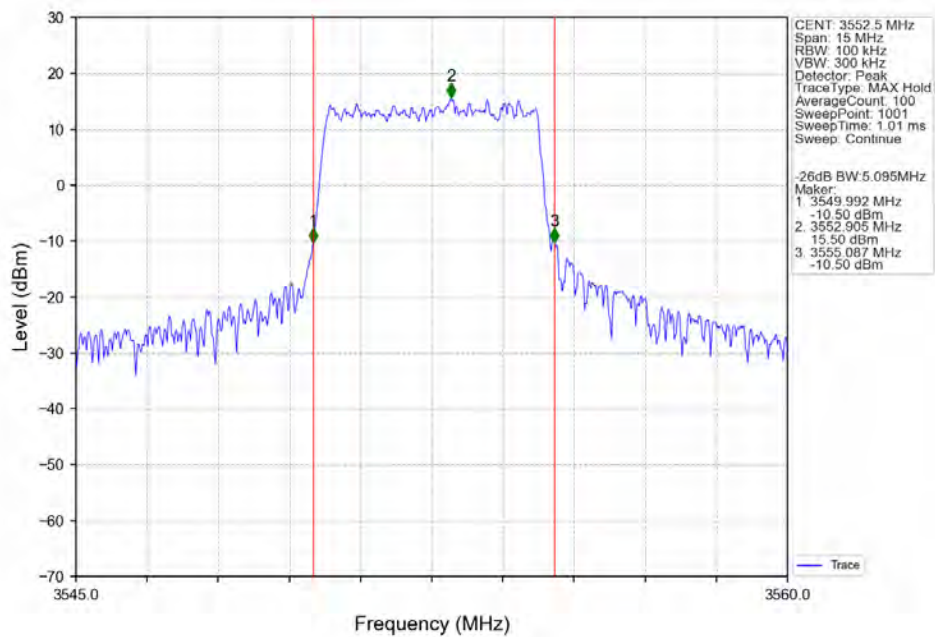
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Band48 5MHz 16QAM HCH 3697.5MHz RB 25 0 NTNV



Band48 5MHz 64QAM LCH 3552.5MHz RB 25 0 NTNV



Band48 5MHz 64QAM MCH 3625MHz RB 25 0 NTNV

