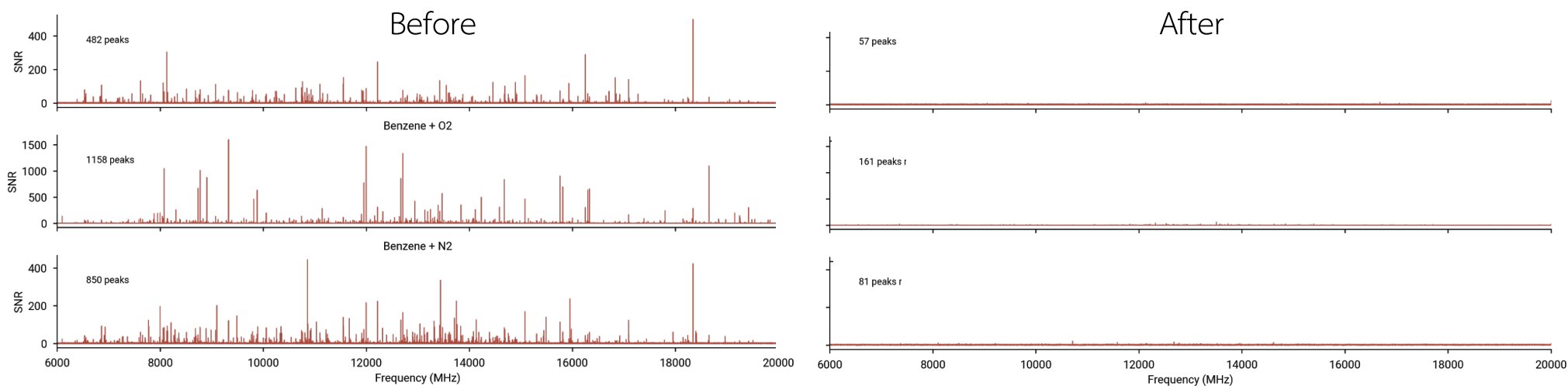


# Exhaustive Product Analysis of Three Benzene Discharges



Freq. Range (GHz)	Benzene		Benzene/O <sub>2</sub>		Benzene/N <sub>2</sub>	
	6.5–19	17–26	6.5–19	17–26	6.5–19	17–26
No. of gas pulses (1000s)	106	100	141	100	42	100
No. of Features <sup>a</sup>	482	185	1158	260	850	404
No. Unassigned	57	43	161	28	81	33
% Assigned	88	77	86	89	90	92
Total Intensity <sup>b</sup>	13223	5828	47185	10395	21535	10717
Unassigned Intensity	432	389	1696	243	648	282
% Assigned	97	93	96	98	97	97
No. of Species	66	53	130	55	93	74
No. of Variants <sup>c</sup>	87	62	167	75	131	107

<sup>a</sup> A signal-to-noise ratio (SNR) of six or greater was used as a threshold.

<sup>b</sup> Defined as the sum of the SNR of all features at or above the SNR threshold.

<sup>c</sup> Includes vibrationally excited states and isotopic species.