

1 **Bulk and molecular-level composition of primary organic aerosol**
2 **from wood, straw, cow dung, and plastic burning**

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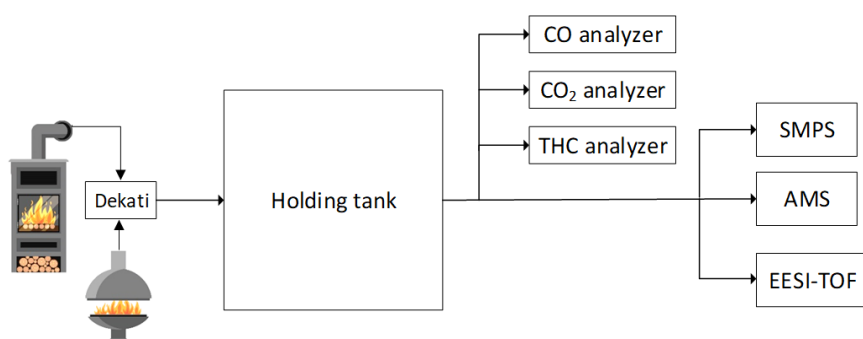
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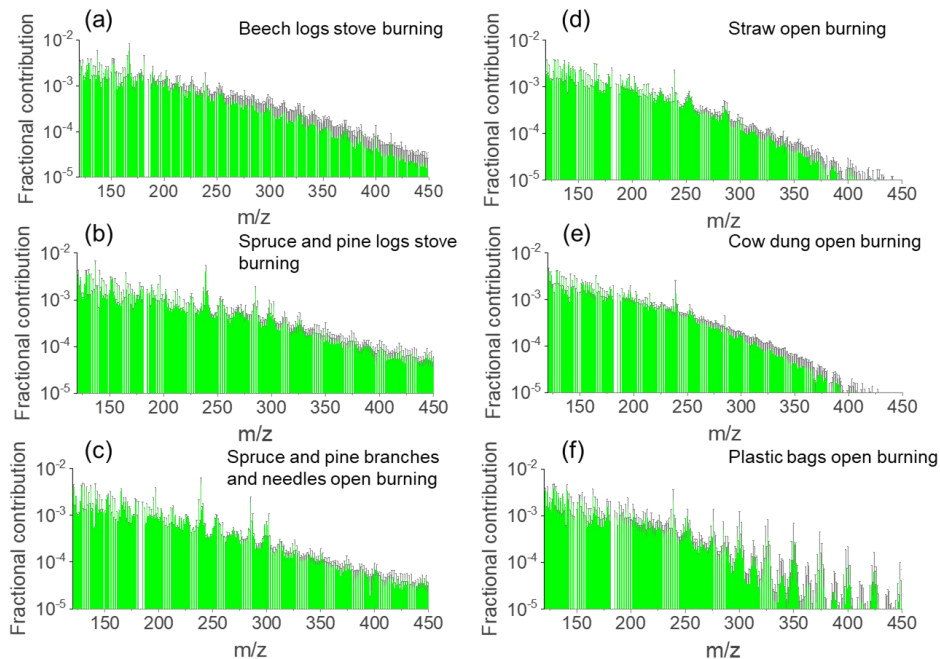
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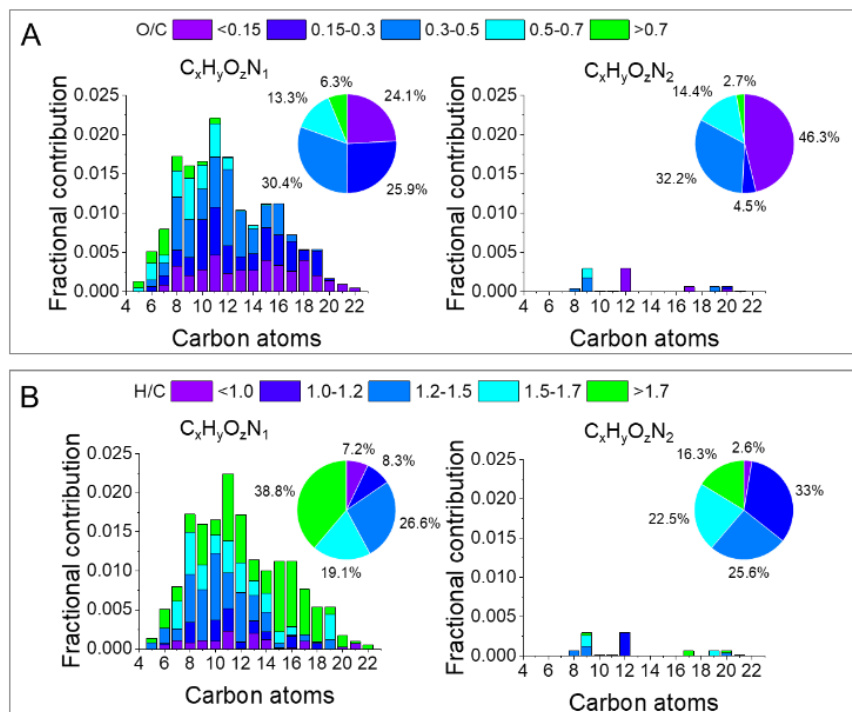
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13 **Figure S1. Schematic diagram of experimental setup.**



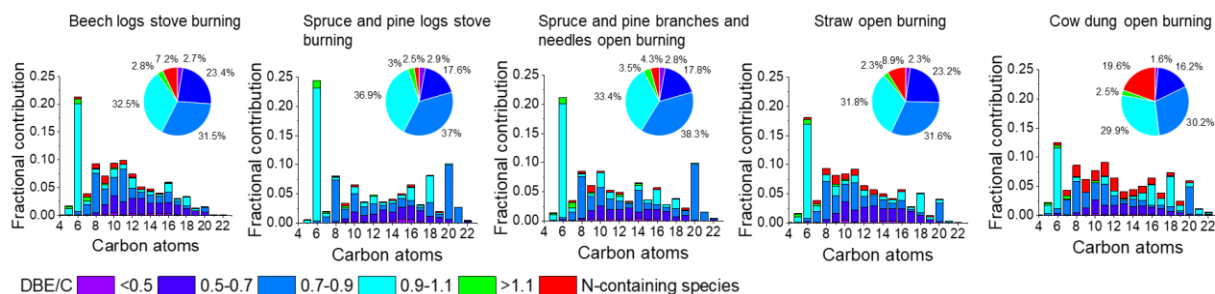
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15 **Figure S2.** Average AMS POA mass spectral profiles in the range from m/z 120 to 450 of (a) beech logs stove burning ($n=6$;
 16 n is the number of experiments), (b) spruce and pine logs stove burning ($n=9$), (c) spruce and pine branches and needles
 17 open burning ($n=4$), (d) straw open burning ($n=6$), and (e) cow dung open burning ($n=5$). The error bar denotes half
 18 standard deviation in grey.



19

20 **Figure S3.** The average carbon and oxygen distribution of cow dung open burning.



21
 22 **Figure S4.** The average carbon and oxygen distribution colored by the DBE/C for non-nitrogen-containing species with the
 23 **EESI-TOF.** The nitrogen-containing species are colored in red. The pie charts are the corresponding contribution of DBE/C.

24 **Table S1.** The emission factors of CO, CO₂, THC, PM, and BC as well as MCE values from each burns. It is noted as n.a.
 25 where the data is not available. The short dash line denotes the corresponding value is not calculated under the category
 26 due to a lack of required data. BS, SPS, SPO, SO, CDO, PBO indicate beech wood stove burning, spruce and pine logs stove
 27 burning, spruce and pine branches and needles open burning, straw open burning, and cow dung open burning, respectively.

Exp. No.	Burning type	MCE	Emission factors								
			CO	CO ₂	THC	BC data is not available			BC data is available		
						PM	OM	BC	PM	OM	BC
BS1	beech stove	0.94	65.6	1525.1	14.9	5.4	3.1	n.a.	-	-	-
BS2	beech stove	0.94	58.5	1541.5	13.2	5.3	3.5	n.a.	-	-	-
BS3	beech stove	0.91	89.0	1459.4	20.7	14.0	5.3	-	9.6	8.3	3.28
BS4	beech stove	0.88	124.3	1388.4	27.3	12.0	4.6	-	8.2	7.1	2.57
BS5	beech stove	0.91	91.8	1420.3	20.4	-	-	-	9.7	9.3	1.44
SPS1	spruce stove	0.90	56.7	1698.3	10.3	6.3	2.3	n.a.	-	-	-
SPS2	spruce stove	0.92	71.9	1661.1	15.9	4.3	1.6	n.a.	-	-	-
SPS3	spruce stove	0.90	98.3	1618.4	17.5	2.6	1.1	n.a.	-	-	-
SPS4	spruce stove	0.92	72.8	1650.8	19.3	3.6	2.2	n.a.	-	-	-
SPS5	spruce stove	0.87	142.2	1509.2	25.8	9.2	4.8	n.a.	-	-	-
SPS6	spruce stove	0.93	76.1	1658.6	13.9	5.9	1.1	n.a.	-	-	-
SPS7	spruce stove	0.94	66.5	1680.3	12.7	4.0	1.8	n.a.	-	-	-
SPS8	spruce stove	0.91	85.9	1649.1	13.5	3.2	0.9	n.a.	-	-	-
SPO1	spruce + pine open	0.95	54.2	1707.9	9.1	5.4	2.3	n.a.	-	-	-
SPO2	spruce + pine open	0.91	64.6	1658.6	16.2	10.4	4.3	n.a.	-	-	-
SPO3	spruce + pine open	0.91	70.5	1647.6	15.9	11.6	3.6	n.a.	-	-	-
SPO4	spruce + pine open	0.93	64.6	1661.5	15.3	10.4	4.9	n.a.	-	-	-
SO1	straw open	0.92	40.6	1554.5	8.3	2.8	0.9	n.a.	-	-	-
SO2	straw open	0.94	61.7	1433.0	36.6	-	-	-	2.2	1.9	0.62
SO3	straw open	0.94	48.9	1481.8	26.0	-	-	-	4.0	3.6	0.93
SO4	straw open	1.00	0.2	1636.4	0.7	1.6	1.7	n.a.	-	-	-
SO5	straw open	0.98	17.8	1598.6	3.9	1.7	1.6	n.a.	-	-	-
SO6	straw open	0.89	97.4	1366.1	39.3	-	-	-	4.6	4.3	0.54
CDO1	cow dung open	0.81	79.0	1414.7	29.4	8.0	7.6	n.a.	-	-	-
CDO2	cow dung open	0.89	53.0	1448.9	24.9	14.3	16.2	-	14.9	14.2	0.56
CDO3	cow dung open	0.88	81.8	1436.9	22.6	4.9	5.9	-	5.1	4.8	0.81
CDO4	cow dung open	0.90	99.1	1377.4	26.5	-	-	-	12.6	12.5	0.5
CDO5	cow dung open	0.89	107.6	1292.2	32.6	-	-	-	33.0	32.5	1.3

CDO6	cow dung open	0.85	133.0	1227.2	46.1	-	-	-	26.2	25.9	0.76
PBO1	plastic bag open	0.99	6.2	3022.2	2.9	4.37	n.a	-	4.27	n.a.	0.89
PBO2	plastic bag open	0.99	13.1	3028.9	5.6	1.33	1.52	-	1.41	1.11	0.88
PBO3	plastic bag open	0.99	10.0	3026.9	3.2	-	-	-	2.82	1.5	0.72
PBO4	plastic bag open	0.95	88.0	2748.4	61.1	-	-	-	3.77	n.a.	1.43

28 **Table S2. The compounds from EESI-TOF with p-value smaller than 0.1 during pairwise comparisons and their fold**
29 **changes measured by EESI-TOF. The average p-value (p_mean), the standard deviation of p-values (p_std), the average**
30 **base-2 logarithmic fold change (log2FC_mean), and the standard deviation of log2FC (log2FC_std) are listed.**

Burning types	Monoisotopic mass	Formula	p_mean	p_std	log ₂ FC_mean	log ₂ FC_std
Beech logs stove burning	181.1103	C ₁₀ H ₁₅ O ₂ N	0.06	0.05	-1.06	1.12
	210.0893	C ₁₁ H ₁₄ O ₄	0.06	0.06	1.48	0.41
	252.1727	C ₁₅ H ₂₄ O ₃	0.04	0.01	3.10	1.89
	261.1213	C ₁₁ H ₁₉ O ₆ N	0.03	0.03	-0.54	1.28
	300.2666	C ₁₈ H ₃₆ O ₃	0.05	0.06	-1.82	1.49
	306.2560	C ₂₀ H ₃₄ O ₂	0.03	0.03	-3.28	1.79
	310.2145	C ₁₈ H ₃₀ O ₄	0.07	0.03	-1.13	1.46
	324.2666	C ₂₀ H ₃₆ O ₃	0.02	0.01	-3.19	0.00
	334.1417	C ₁₈ H ₂₂ O ₆	0.04	0.01	3.38	2.33
Spruce and pine burning	116.1202	C ₇ H ₁₆ O	0.02	0.02	-2.81	0.00
	124.0889	C ₈ H ₁₂ O	0.05	0.04	-2.30	0.75
	127.0634	C ₆ H ₉ O ₂ N	0.03	0.01	-1.37	0.00
	132.0423	C ₅ H ₈ O ₄	0.00	0.00	-1.27	0.68
	133.0528	C ₈ H ₇ ON	0.02	0.02	-2.19	0.40
	134.0579	C ₅ H ₁₀ O ₄	0.02	0.03	-1.53	1.66
	137.0841	C ₈ H ₁₁ ON	0.01	0.02	-2.78	0.27
	139.0998	C ₈ H ₁₃ ON	0.04	0.05	-2.17	0.57
	140.0474	C ₇ H ₈ O ₃	0.04	0.03	-1.82	1.11
	141.0790	C ₇ H ₁₁ O ₂ N	0.02	0.02	-1.86	0.33
	141.1154	C ₈ H ₁₅ ON	0.02	0.02	-1.94	0.00
	148.0525	C ₉ H ₈ O ₂	0.03	0.00	-2.44	1.54
	151.0634	C ₈ H ₉ O ₂ N	0.02	0.02	-1.99	0.00
	152.0474	C ₈ H ₈ O ₃	0.03	0.02	-2.58	1.81
	153.0790	C ₈ H ₁₁ O ₂ N	0.01	0.02	-2.83	0.00
	154.0630	C ₈ H ₁₀ O ₃	0.02	0.03	-3.09	1.39
	155.0583	C ₇ H ₉ O ₃ N	0.02	0.02	-2.53	0.00
	157.0892	C ₁₁ H ₁₁ N	0.02	0.03	-2.29	0.00
	164.0474	C ₉ H ₈ O ₃	0.02	0.01	-1.24	0.78
	167.0947	C ₉ H ₁₃ O ₂ N	0.02	0.02	-2.69	0.00
168.0423	C ₈ H ₈ O ₄	0.00	0.01	-1.88	1.57	
168.0787	C ₉ H ₁₂ O ₃	0.03	0.02	-3.09	2.13	
169.0739	C ₈ H ₁₁ O ₃ N	0.02	0.02	-3.15	0.68	
173.0688	C ₇ H ₁₁ O ₄ N	0.03	0.01	-2.10	0.00	
174.0529	C ₇ H ₁₀ O ₅	0.01	0.01	-1.96	0.92	

175.0481	C ₆ H ₉ O ₅ N	0.04	0.01	-2.77	0.00
176.0838	C ₁₁ H ₁₂ O ₂	0.04	0.05	-2.69	2.19
178.0266	C ₉ H ₆ O ₄	0.01	0.01	1.04	1.08
180.0787	C ₁₀ H ₁₂ O ₃	0.04	0.02	-2.50	2.73
181.1103	C ₁₀ H ₁₅ O ₂ N	0.01	0.02	-2.79	0.00
182.0944	C ₁₀ H ₁₄ O ₃	0.03	0.01	-2.09	2.31
183.0532	C ₈ H ₉ O ₄ N	0.03	0.01	-2.50	0.00
183.1049	C ₁₃ H ₁₃ N	0.02	0.02	-3.38	0.00
185.0688	C ₈ H ₁₁ O ₄ N	0.01	0.02	-3.46	0.54
188.0321	C ₇ H ₈ O ₆	0.04	0.05	0.09	0.46
188.0838	C ₁₂ H ₁₂ O ₂	0.04	0.01	-2.54	2.12
189.0790	C ₁₁ H ₁₁ O ₂ N	0.01	0.02	-2.83	0.00
190.0842	C ₈ H ₁₄ O ₅	0.04	0.04	-2.39	2.16
191.0794	C ₇ H ₁₃ O ₅ N	0.04	0.01	-2.13	0.00
191.0947	C ₁₁ H ₁₃ O ₂ N	0.02	0.02	-2.56	0.00
192.0423	C ₁₀ H ₈ O ₄	0.06	0.04	-0.77	1.06
192.0787	C ₁₁ H ₁₂ O ₃	0.02	0.03	-1.14	0.77
194.0944	C ₁₁ H ₁₄ O ₃	0.00	0.00	-4.96	2.40
195.0896	C ₁₀ H ₁₃ O ₃ N	0.02	0.02	-3.40	0.00
195.1049	C ₁₄ H ₁₃ N	0.02	0.02	-3.21	0.00
196.0736	C ₁₀ H ₁₂ O ₄	0.01	0.01	-1.15	0.75
196.1100	C ₁₁ H ₁₆ O ₃	0.03	0.02	-2.93	2.31
197.0688	C ₉ H ₁₁ O ₄ N	0.02	0.02	-2.73	0.00
197.1205	C ₁₄ H ₁₅ N	0.03	0.01	-2.26	0.00
199.0998	C ₁₃ H ₁₃ ON	0.03	0.05	-2.53	0.90
207.0896	C ₁₁ H ₁₃ O ₃ N	0.02	0.02	-2.92	0.00
208.0736	C ₁₁ H ₁₂ O ₄	0.01	0.00	-1.38	1.53
208.1100	C ₁₂ H ₁₆ O ₃	0.05	0.03	-2.26	2.15
209.1053	C ₁₁ H ₁₅ O ₃ N	0.01	0.02	-2.85	0.00
210.0893	C ₁₁ H ₁₄ O ₄	0.00	0.00	-3.99	2.52
211.0957	C ₉ H ₁₃ O ₃ N ₃	0.03	0.01	-3.48	0.00
212.0685	C ₁₀ H ₁₂ O ₅	0.00	0.00	-2.97	1.77
213.1366	C ₁₁ H ₁₉ O ₃ N	0.02	0.02	-2.72	0.00
216.1151	C ₁₄ H ₁₆ O ₂	0.04	0.03	-3.58	1.15
217.0951	C ₉ H ₁₅ O ₅ N	0.04	0.01	-2.59	0.00
217.1216	C ₁₂ H ₁₅ ON ₃	0.02	0.02	-3.12	0.00
219.0743	C ₈ H ₁₃ O ₆ N	0.03	0.01	-2.71	0.89
220.1100	C ₁₃ H ₁₆ O ₃	0.03	0.03	-3.26	2.37
221.1012	C ₇ H ₁₅ O ₅ N ₃	0.02	0.02	-3.21	0.00
225.1002	C ₁₁ H ₁₅ O ₄ N	0.03	0.01	-2.60	0.00
225.1366	C ₁₂ H ₁₉ O ₃ N	0.03	0.01	-2.27	0.55
227.0794	C ₁₀ H ₁₃ O ₅ N	0.02	0.02	-2.50	0.00
228.1151	C ₁₅ H ₁₆ O ₂	0.05	0.03	-2.71	1.89

228.2091	C ₁₄ H ₂₈ O ₂	0.03	0.01	-3.47	0.00
232.1464	C ₁₅ H ₂₀ O ₂	0.02	0.02	-3.48	0.00
233.1264	C ₁₀ H ₁₉ O ₅ N	0.02	0.02	-2.88	0.00
234.1104	C ₁₀ H ₁₈ O ₆	0.01	0.01	2.20	1.79
235.1056	C ₉ H ₁₇ O ₆ N	0.02	0.02	-2.89	0.00
235.1362	C ₁₇ H ₁₇ N	0.04	0.01	-2.16	0.00
239.1370	C ₉ H ₂₁ O ₆ N	0.02	0.02	-3.31	0.00
241.1315	C ₁₂ H ₁₉ O ₄ N	0.02	0.02	-2.91	0.00
242.2247	C ₁₅ H ₃₀ O ₂	0.02	0.02	-3.78	0.00
243.1471	C ₁₂ H ₂₁ O ₄ N	0.02	0.02	-3.24	0.00
253.2043	C ₁₅ H ₂₇ O ₂ N	0.02	0.02	-2.34	0.00
254.1155	C ₁₃ H ₁₈ O ₅	0.00	0.00	-2.48	1.99
254.1366	C ₁₀ H ₂₂ O ₇	0.05	0.02	-2.54	0.77
256.0583	C ₁₁ H ₁₂ O ₇	0.01	0.00	2.61	1.79
256.2404	C ₁₆ H ₃₂ O ₂	0.02	0.04	-5.60	1.18
258.1621	C ₁₇ H ₂₂ O ₂	0.03	0.02	2.29	2.10
259.1421	C ₁₂ H ₂₁ O ₅ N	0.02	0.02	-2.56	0.00
261.1213	C ₁₁ H ₁₉ O ₆ N	0.03	0.05	-2.40	1.38
268.1676	C ₁₅ H ₂₄ O ₄	0.01	0.00	1.86	1.51
269.1628	C ₁₄ H ₂₃ O ₄ N	0.02	0.02	-2.85	0.00
270.0740	C ₁₂ H ₁₄ O ₇	0.05	0.01	2.13	1.87
272.2353	C ₁₆ H ₃₂ O ₃	0.01	0.02	-3.50	0.00
284.0897	C ₁₃ H ₁₆ O ₇	0.05	0.03	1.49	1.63
284.1777	C ₁₉ H ₂₄ O ₂	0.03	0.03	1.45	1.73
286.1934	C ₁₉ H ₂₆ O ₂	0.03	0.02	2.70	2.45
288.1727	C ₁₈ H ₂₄ O ₃	0.06	0.04	1.40	1.84
298.1053	C ₁₄ H ₁₈ O ₇	0.04	0.04	1.62	1.69
299.2462	C ₁₇ H ₃₃ O ₃ N	0.04	0.01	-2.66	0.00
299.2826	C ₁₈ H ₃₇ O ₂ N	0.03	0.01	-1.77	0.00
300.2666	C ₁₈ H ₃₆ O ₃	0.03	0.06	-3.48	1.00
303.2047	C ₁₅ H ₂₉ O ₅ N	0.03	0.01	-3.20	0.00
303.2411	C ₁₆ H ₃₃ O ₄ N	0.04	0.01	-3.51	0.00
306.2560	C ₂₀ H ₃₄ O ₂	0.02	0.02	1.11	1.86
310.2145	C ₁₈ H ₃₀ O ₄	0.01	0.02	-3.24	0.00
312.2091	C ₂₁ H ₂₈ O ₂	0.00	0.00	2.90	1.67
314.2247	C ₂₁ H ₃₀ O ₂	0.03	0.01	2.41	2.65
314.2459	C ₁₈ H ₃₄ O ₄	0.05	0.05	-3.17	1.04
316.1887	C ₁₆ H ₂₈ O ₆	0.00	0.00	2.07	0.66
318.2196	C ₂₀ H ₃₀ O ₃	0.03	0.03	1.56	0.77
320.2353	C ₂₀ H ₃₂ O ₃	0.03	0.05	1.65	2.16
328.2251	C ₁₈ H ₃₂ O ₅	0.04	0.01	-2.85	0.00
330.2196	C ₂₁ H ₃₀ O ₃	0.00	0.00	4.67	1.69
332.2353	C ₂₁ H ₃₂ O ₃	0.01	0.00	2.65	2.72

	333.2153	C ₁₆ H ₃₁ O ₆ N	0.00	0.00	2.74	0.57
	356.1836	C ₁₈ H ₂₈ O ₇	0.01	0.00	3.44	1.81
	362.2459	C ₂₂ H ₃₄ O ₄	0.02	0.01	2.37	2.13
Straw open burning	178.0266	C ₉ H ₆ O ₄	0.02	0.01	-0.03	0.24
	181.1103	C ₁₀ H ₁₅ O ₂ N	0.05	0.04	-0.09	1.17
	190.1206	C ₉ H ₁₈ O ₄	0.07	0.03	1.12	2.48
	224.1413	C ₁₃ H ₂₀ O ₃	0.01	0.00	2.80	0.50
	232.1100	C ₁₄ H ₁₆ O ₃	0.02	0.01	0.65	0.22
	238.1206	C ₁₃ H ₁₈ O ₄	0.01	0.01	1.87	0.40
	272.1625	C ₁₄ H ₂₄ O ₅	0.04	0.05	2.60	1.82
	283.1056	C ₁₃ H ₁₇ O ₆ N	0.03	0.02	1.82	1.09
	340.2615	C ₂₀ H ₃₆ O ₄	0.03	0.04	2.20	0.47
	Cow dung open burning	114.1045	C ₇ H ₁₄ O	0.04	0.04	1.47
116.1202		C ₇ H ₁₆ O	0.00	0.00	2.59	0.73
137.0841		C ₈ H ₁₁ ON	0.02	0.02	2.16	0.96
139.0634		C ₇ H ₉ O ₂ N	0.03	0.02	1.46	0.94
139.0998		C ₈ H ₁₃ ON	0.02	0.02	1.93	0.91
141.0790		C ₇ H ₁₁ O ₂ N	0.02	0.02	1.62	0.60
141.1154		C ₈ H ₁₅ ON	0.04	0.04	1.55	1.23
143.1311		C ₈ H ₁₇ ON	0.06	0.05	1.58	1.37
149.0841		C ₉ H ₁₁ ON	0.02	0.01	2.77	1.62
153.0790		C ₈ H ₁₁ O ₂ N	0.04	0.04	1.94	1.04
153.1154		C ₉ H ₁₅ ON	0.03	0.04	1.80	0.95
158.1672		C ₁₀ H ₂₂ O	0.02	0.02	2.70	1.74
165.0790		C ₉ H ₁₁ O ₂ N	0.00	0.00	3.06	0.87
165.1154		C ₁₀ H ₁₅ ON	0.00	0.00	3.27	0.89
167.0947		C ₉ H ₁₃ O ₂ N	0.02	0.02	1.92	0.82
167.1311		C ₁₀ H ₁₇ ON	0.02	0.01	2.70	1.45
175.0634		C ₁₀ H ₉ O ₂ N	0.06	0.05	2.16	1.71
175.0998		C ₁₁ H ₁₃ ON	0.06	0.05	2.49	2.08
176.0685		C ₇ H ₁₂ O ₅	0.02	0.01	-4.33	1.96
177.0790		C ₁₀ H ₁₁ O ₂ N	0.02	0.01	2.87	1.60
177.1154		C ₁₁ H ₁₅ ON	0.02	0.01	3.22	2.02
179.0947		C ₁₀ H ₁₃ O ₂ N	0.02	0.01	3.03	1.74
179.1311		C ₁₁ H ₁₇ ON	0.01	0.01	2.42	0.90
181.0852		C ₈ H ₁₁ O ₂ N ₃	0.02	0.01	2.90	1.50
181.1103		C ₁₀ H ₁₅ O ₂ N	0.03	0.03	2.08	0.95
182.0427		C ₅ H ₁₀ O ₇	0.07	0.04	2.37	2.22
185.0688		C ₈ H ₁₁ O ₄ N	0.04	0.04	2.28	1.15
185.1053		C ₉ H ₁₅ O ₃ N	0.01	0.02	2.53	0.93
189.0790		C ₁₁ H ₁₁ O ₂ N	0.04	0.03	1.34	1.47
189.1154		C ₁₂ H ₁₅ ON	0.02	0.01	3.18	1.80
193.1103	C ₁₁ H ₁₅ O ₂ N	0.04	0.04	1.65	0.89	

194.0579	C ₁₀ H ₁₀ O ₄	0.02	0.01	-4.79	0.00
194.1672	C ₁₃ H ₂₂ O	0.06	0.05	2.53	2.05
195.1624	C ₁₂ H ₂₁ ON	0.02	0.01	2.21	1.18
197.1781	C ₁₂ H ₂₃ ON	0.02	0.02	2.11	1.34
199.0845	C ₉ H ₁₃ O ₄ N	0.00	0.00	2.17	0.71
199.0998	C ₁₃ H ₁₃ ON	0.05	0.04	1.21	1.48
201.0638	C ₈ H ₁₁ O ₅ N	0.06	0.05	1.65	1.63
201.1154	C ₁₃ H ₁₅ ON	0.06	0.05	2.33	1.97
207.0896	C ₁₁ H ₁₃ O ₃ N	0.02	0.02	1.89	0.57
207.1260	C ₁₂ H ₁₇ O ₂ N	0.00	0.00	3.74	0.93
208.1676	C ₁₀ H ₂₄ O ₄	0.06	0.05	2.87	2.27
209.1053	C ₁₁ H ₁₅ O ₃ N	0.03	0.03	1.64	0.70
209.1264	C ₈ H ₁₉ O ₅ N	0.03	0.03	1.88	1.46
210.0893	C ₁₁ H ₁₄ O ₄	0.03	0.04	-0.13	0.88
213.1366	C ₁₁ H ₁₉ O ₃ N	0.03	0.02	2.08	1.02
223.1421	C ₉ H ₂₁ O ₅ N	0.00	0.00	2.71	0.70
225.1114	C ₁₀ H ₁₅ O ₃ N ₃	0.06	0.05	1.98	1.59
225.2094	C ₁₄ H ₂₇ ON	0.06	0.05	2.01	1.60
227.0794	C ₁₀ H ₁₃ O ₅ N	0.02	0.03	1.80	0.37
227.1158	C ₁₁ H ₁₇ O ₄ N	0.00	0.00	2.82	0.57
233.1053	C ₁₃ H ₁₅ O ₃ N	0.02	0.01	2.86	1.43
236.0897	C ₉ H ₁₆ O ₇	0.02	0.02	-3.31	0.00
237.1002	C ₁₂ H ₁₅ O ₄ N	0.02	0.02	0.90	0.55
238.1206	C ₁₃ H ₁₈ O ₄	0.02	0.02	-4.82	0.00
241.0699	C ₉ H ₁₁ O ₅ N ₃	0.06	0.05	1.68	1.48
241.2407	C ₁₅ H ₃₁ ON	0.02	0.01	2.69	1.48
243.1471	C ₁₂ H ₂₁ O ₄ N	0.02	0.02	2.23	0.78
245.0900	C ₁₀ H ₁₅ O ₆ N	0.00	0.00	1.57	0.51
245.1264	C ₁₁ H ₁₉ O ₅ N	0.02	0.03	2.04	0.58
246.1104	C ₁₁ H ₁₈ O ₆	0.01	0.02	3.12	0.76
246.1216	C ₁₀ H ₁₈ O ₅ N ₂	0.01	0.01	-4.77	0.00
246.1468	C ₁₂ H ₂₂ O ₅	0.01	0.01	1.87	0.73
247.1421	C ₁₁ H ₂₁ O ₅ N	0.04	0.04	0.87	0.57
253.0951	C ₁₂ H ₁₅ O ₅ N	0.02	0.02	1.77	1.12
255.1260	C ₁₆ H ₁₇ O ₂ N	0.02	0.01	2.93	1.54
259.1421	C ₁₂ H ₂₁ O ₅ N	0.02	0.03	2.13	0.57
266.2247	C ₁₇ H ₃₀ O ₂	0.02	0.01	2.01	1.53
267.2200	C ₁₆ H ₂₉ O ₂ N	0.06	0.05	1.73	1.39
268.0947	C ₁₃ H ₁₆ O ₆	0.05	0.03	-2.41	1.14
268.2404	C ₁₇ H ₃₂ O ₂	0.02	0.03	2.10	0.66
269.1628	C ₁₄ H ₂₃ O ₄ N	0.01	0.02	2.34	0.80
269.2356	C ₁₆ H ₃₁ O ₂ N	0.04	0.04	1.75	1.31
269.2720	C ₁₇ H ₃₅ ON	0.02	0.01	2.60	1.50

273.1213	C ₁₂ H ₁₉ O ₆ N	0.00	0.00	2.50	0.64
280.1887	C ₁₃ H ₂₈ O ₆	0.06	0.05	2.38	2.04
283.1632	C ₁₁ H ₂₅ O ₇ N	0.02	0.02	2.38	1.34
284.2717	C ₁₈ H ₃₆ O ₂	0.01	0.01	2.42	0.96
285.1213	C ₁₃ H ₁₉ O ₆ N	0.02	0.01	2.45	1.31
285.1577	C ₁₄ H ₂₃ O ₅ N	0.00	0.00	3.05	0.70
285.2669	C ₁₇ H ₃₅ O ₂ N	0.06	0.05	1.99	1.60
286.2510	C ₁₇ H ₃₄ O ₃	0.03	0.02	1.71	1.68
287.1734	C ₁₄ H ₂₅ O ₅ N	0.01	0.02	2.36	0.59
289.1526	C ₁₃ H ₂₃ O ₆ N	0.02	0.01	2.39	1.27
293.2469	C ₁₇ H ₃₁ ON ₃	0.06	0.05	1.55	1.31
295.2149	C ₁₇ H ₂₉ O ₃ N	0.03	0.03	1.85	1.25
295.2877	C ₁₉ H ₃₇ ON	0.02	0.01	2.15	1.16
296.2717	C ₁₉ H ₃₆ O ₂	0.01	0.02	1.65	0.38
297.1577	C ₁₅ H ₂₃ O ₅ N	0.02	0.01	2.74	1.51
299.2098	C ₁₆ H ₂₉ O ₄ N	0.06	0.05	1.78	1.52
300.2666	C ₁₈ H ₃₆ O ₃	0.00	0.00	2.39	0.66
301.1468	C ₂₁ H ₁₉ ON	0.00	0.00	2.94	0.53
301.2254	C ₁₆ H ₃₁ O ₄ N	0.06	0.05	2.60	2.18
302.2823	C ₁₈ H ₃₈ O ₃	0.06	0.05	2.45	1.91
303.1431	C ₁₂ H ₂₁ O ₆ N ₃	0.06	0.05	1.87	1.48
304.2278	C ₁₉ H ₃₀ O ₂ N	0.06	0.05	2.67	2.08
307.2625	C ₁₈ H ₃₃ ON ₃	0.02	0.01	2.36	1.19
310.2145	C ₁₈ H ₃₀ O ₄	0.04	0.03	1.42	1.65
311.2938	C ₁₈ H ₃₇ ON ₃	0.02	0.01	2.04	1.08
312.2666	C ₁₉ H ₃₆ O ₃	0.01	0.01	1.88	0.39
312.3394	C ₂₁ H ₄₄ O	0.02	0.01	2.45	1.23
316.1887	C ₁₆ H ₂₈ O ₆	0.04	0.03	-1.11	2.11
316.2251	C ₁₇ H ₃₂ O ₅	0.00	0.00	3.52	0.47
322.2874	C ₂₁ H ₃₈ O ₂	0.03	0.03	1.80	1.25
325.2983	C ₂₀ H ₃₉ O ₂ N	0.02	0.01	2.13	1.19
336.1574	C ₁₈ H ₂₄ O ₆	0.06	0.05	1.87	1.59
336.1938	C ₁₉ H ₂₈ O ₅	0.02	0.01	2.81	1.48
337.2254	C ₁₉ H ₃₁ O ₄ N	0.06	0.05	1.87	1.46
338.2823	C ₂₁ H ₃₈ O ₃	0.03	0.02	2.22	1.36
338.3187	C ₂₂ H ₄₂ O ₂	0.03	0.02	2.50	1.48
339.2676	C ₂₂ H ₃₃ N ₃	0.06	0.05	1.61	1.38
340.2615	C ₂₀ H ₃₆ O ₄	0.06	0.04	0.28	1.65
340.2979	C ₂₁ H ₄₀ O ₃	0.02	0.01	2.79	1.56
340.3343	C ₂₂ H ₄₄ O ₂	0.01	0.01	2.57	0.21
341.2469	C ₂₁ H ₃₁ ON ₃	0.06	0.05	1.72	1.36
341.2932	C ₂₀ H ₃₉ O ₃ N	0.02	0.01	2.24	1.16
347.2309	C ₁₇ H ₃₃ O ₆ N	0.06	0.05	1.66	1.31

352.3343	C ₂₃ H ₄₄ O ₂	0.05	0.04	1.25	1.34
354.2772	C ₂₁ H ₃₈ O ₄	0.04	0.05	2.09	1.31
354.3136	C ₂₂ H ₄₂ O ₃	0.06	0.05	1.62	1.45
354.3500	C ₂₃ H ₄₆ O ₂	0.06	0.05	1.72	1.68
366.3500	C ₂₄ H ₄₆ O ₂	0.06	0.05	1.95	1.55
368.3293	C ₂₃ H ₄₄ O ₃	0.03	0.02	2.15	1.24
376.2463	C ₁₉ H ₃₆ O ₇	0.02	0.01	2.55	1.42
382.3813	C ₂₅ H ₅₀ O ₂	0.06	0.05	1.61	1.30
384.2262	C ₁₉ H ₃₂ O ₆ N ₂	0.05	0.02	1.20	1.30
386.3034	C ₂₂ H ₄₂ O ₅	0.06	0.05	1.84	1.47
394.3449	C ₂₅ H ₄₆ O ₃	0.04	0.03	1.21	1.16
396.3242	C ₂₄ H ₄₄ O ₄	0.03	0.03	1.98	1.20

31 **Table S3. The fragment ions from AMS with p-value smaller than 0.1 during pairwise comparisons and their fold changes**
32 **in 5 types of burning.**

Burning types	<i>m/z</i>	Formula	p_mean	p_std	log ₂ FC_mean	log ₂ FC_std
	16.0313	C	0.05	0.04	0.70	0.42
	24.0000	C ₂	0.04	0.05	-0.11	0.23
	30.0106	CH ₂ O	0.03	0.03	-0.03	0.34
	30.0344	CH ₄ ON	0.03	0.02	-1.83	0.72
	42.0344	C ₂ H ₄ ON	0.02	0.02	-0.42	0.68
	43.0422	C ₂ H ₅ ON	0.04	0.03	-0.11	0.99
	51.0235	C ₄ H ₃	0.03	0.03	0.35	0.21
	52.0313	C ₄ H ₄	0.03	0.03	0.38	0.24
	53.0027	C ₃ HO	0.05	0.03	0.45	0.46
	54.0344	C ₃ H ₄ ON	0.04	0.05	-0.60	0.74
	55.0422	C ₃ H ₅ ON	0.01	0.00	-0.42	0.92
	55.9898	C ₂ O ₂	0.06	0.05	-0.28	0.37
	56.0501	C ₃ H ₆ ON	0.05	0.04	-0.78	0.87
Beech logs stove burning	57.0579	C ₃ H ₇ ON	0.01	0.01	-0.03	0.49
	59.0497	C ₃ H ₇ O	0.01	0.01	-0.46	0.19
	63.9949	C ₄ O	0.01	0.01	0.24	0.14
	64.0313	C ₅ H ₄	0.03	0.03	0.45	0.31
	66.0106	C ₄ H ₂ O	0.02	0.02	0.72	0.43
	67.0184	C ₄ H ₃ O	0.03	0.01	0.69	0.48
	68.0501	C ₄ H ₆ ON	0.08	0.02	-1.58	0.71
	70.0055	C ₃ H ₂ O ₂	0.05	0.04	-0.30	0.28
	71.0735	C ₄ H ₉ ON	0.03	0.03	-0.01	0.51
	77.0027	C ₅ HO	0.05	0.05	0.67	0.36
	79.0184	C ₅ H ₃ O	0.04	0.02	0.69	0.71
	89.0392	C ₇ H ₅	0.04	0.03	0.32	0.28
	91.0031	C ₂ H ₃ O ₄	0.05	0.04	0.55	0.39
	92.9977	C ₅ HO ₂	0.01	0.00	0.24	0.19
	93.0341	C ₆ H ₅ O	0.06	0.03	0.74	1.11

97.0654	C ₆ H ₉ O	0.01	0.01	-1.15	0.78
99.0685	C ₅ H ₉ ON	0.04	0.04	-0.14	0.32
101.0239	C ₄ H ₅ O ₃	0.04	0.04	-0.21	0.44
102.0106	C ₇ H ₂ O	0.02	0.04	0.69	0.08
102.0470	C ₈ H ₆	0.01	0.02	0.45	0.23
106.0419	C ₇ H ₆ O	0.06	0.01	0.44	0.80
108.0211	C ₆ H ₄ O ₂	0.06	0.03	0.51	0.68
111.0810	C ₇ H ₁₁ O	0.03	0.03	-1.16	0.67
111.1175	C ₈ H ₁₅	0.06	0.04	-0.40	0.71
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15.9949	O	0.01	0.01	0.71	0.15
24.0000	C ₂	0.00	0.00	0.74	0.18
25.0078	C ₂ H	0.02	0.02	-0.13	0.03
26.0031	CN	0.00	0.00	-1.28	0.47
26.0157	C ₂ H ₂	0.00	0.00	0.41	0.14
27.0109	CHON	0.03	0.02	-0.70	0.50
27.9949	CO	0.01	0.01	0.64	0.18
30.0106	CH ₂ O	0.00	0.00	0.95	0.22
33.0341	CH ₃ O	0.00	0.00	0.87	0.12
36.0000	C ₃	0.00	0.00	1.18	0.15
39.0109	C ₂ HON	0.00	0.00	-6.03	0.45
39.9949	C ₂ O	0.03	0.04	1.26	0.79
41.9980	CON	0.00	0.00	-2.49	0.12
42.0344	C ₂ H ₄ ON	0.00	0.00	-2.38	0.69
43.0058	CHON	0.00	0.00	-4.00	0.37
43.0422	C ₂ H ₅ ON	0.00	0.00	-4.33	0.37
43.9898	CO ₂	0.01	0.01	0.89	0.18
44.0262	C ₂ H ₄ O	0.01	0.01	0.86	0.20
44.0626	C ₃ H ₈	0.01	0.01	-1.24	0.19
46.0055	CH ₂ O ₂	0.00	0.01	-0.37	0.02
47.0133	CH ₃ O ₂	0.00	0.00	0.84	0.21
48.0000	C ₄	0.00	0.00	0.53	0.16
48.0211	CH ₄ O ₂	0.00	0.00	0.26	0.06
49.0290	CH ₅ O ₂	0.02	0.02	0.24	0.09
51.0109	C ₃ HON	0.00	0.00	-1.83	0.34
52.0061	C ₂ N ₂	0.02	0.01	-0.67	0.10
52.0187	C ₃ H ₂ ON	0.02	0.00	-1.43	0.55
53.0266	C ₃ H ₃ ON	0.00	0.00	-1.57	0.52
53.0392	C ₄ H ₅	0.01	0.01	-0.22	0.11
53.9980	C ₂ ON	0.00	0.00	-1.20	0.05
54.0344	C ₃ H ₄ ON	0.00	0.00	-2.39	0.61
55.0184	C ₃ H ₃ O	0.04	0.04	0.31	0.16
55.0184	C ₃ H ₃ O	0.00	0.01	-0.28	0.03
55.0422	C ₃ H ₅ ON	0.00	0.00	-3.26	0.70

Spruce and pine
burning

55.9898	C ₂ O ₂	0.00	0.00	0.97	0.26
56.0136	C ₂ H ₂ ON	0.00	0.00	-1.76	0.12
56.0262	C ₃ H ₄ O	0.00	0.00	0.98	0.19
56.0501	C ₃ H ₆ ON	0.00	0.01	-2.25	0.49
56.0626	C ₄ H ₈	0.06	0.02	-0.15	0.08
56.9977	C ₂ HO ₂	0.03	0.04	0.22	0.08
56.9977	C ₂ HO ₂	0.00	0.00	-0.17	0.02
57.0215	C ₂ H ₃ ON	0.00	0.00	-2.85	0.43
57.0341	C ₃ H ₅ O	0.00	0.00	0.75	0.20
57.0579	C ₃ H ₇ ON	0.00	0.00	-3.39	0.66
58.0055	C ₂ H ₂ O ₂	0.00	0.00	1.30	0.29
59.0007	CHO ₂ N	0.01	0.01	-0.40	0.09
60.0000	C ₅	0.02	0.02	-1.09	0.01
60.0086	CH ₂ O ₂ N	0.01	0.02	-1.86	0.29
60.0211	C ₂ H ₄ O ₂	0.01	0.01	0.82	0.22
60.0450	C ₂ H ₆ ON	0.01	0.01	1.32	0.62
60.9926	CHO ₃	0.01	0.01	-0.61	0.07
61.0164	CH ₃ O ₂ N	0.00	0.00	-1.90	0.20
61.0290	C ₂ H ₅ O ₂	0.00	0.00	0.60	0.16
62.0004	CH ₂ O ₃	0.00	0.00	-0.44	0.01
63.0235	C ₅ H ₃	0.00	0.00	-0.35	0.18
63.0320	CH ₅ O ₂ N	0.00	0.00	-1.46	0.42
64.0187	C ₄ H ₂ ON	0.00	0.00	-1.06	0.22
64.0313	C ₅ H ₄	0.01	0.02	-0.38	0.16
65.0027	C ₄ HO	0.00	0.00	-0.68	0.10
65.0392	C ₅ H ₅	0.00	0.00	-0.47	0.12
66.0470	C ₅ H ₆	0.00	0.00	-0.52	0.11
67.0058	C ₃ HON	0.00	0.00	-1.14	0.17
67.0296	C ₃ H ₃ N ₂	0.01	0.01	-1.88	0.07
68.0136	C ₃ H ₂ ON	0.00	0.00	-0.98	0.18
70.0055	C ₃ H ₂ O ₂	0.00	0.00	0.90	0.23
70.0419	C ₄ H ₆ O	0.00	0.00	0.63	0.18
70.0657	C ₄ H ₈ ON	0.01	0.02	-1.72	0.50
71.0007	C ₂ HO ₂ N	0.00	0.00	-1.26	0.17
71.0133	C ₃ H ₃ O ₂	0.00	0.00	1.01	0.21
71.0371	C ₃ H ₅ ON	0.00	0.00	-1.35	0.21
71.0497	C ₄ H ₇ O	0.02	0.04	0.59	0.12
71.0735	C ₄ H ₉ ON	0.00	0.00	-3.23	0.14
72.0211	C ₃ H ₄ O ₂	0.00	0.00	1.33	0.25
72.0450	C ₃ H ₆ ON	0.01	0.01	-1.13	0.19
72.0814	C ₄ H ₁₀ ON	0.00	0.00	-0.60	0.10
73.0290	C ₃ H ₅ O ₂	0.00	0.00	0.69	0.18
73.0892	C ₄ H ₁₁ ON	0.00	0.00	-0.85	0.08

74.0368	C ₃ H ₆ O ₂	0.00	0.00	0.53	0.20
74.0606	C ₃ H ₈ ON	0.00	0.00	0.32	0.15
75.0082	C ₂ H ₃ O ₃	0.01	0.00	-0.52	0.18
75.9949	C ₅ O	0.00	0.00	-0.28	0.02
77.0027	C ₅ HO	0.01	0.02	-0.81	0.23
77.0392	C ₆ H ₅	0.03	0.03	-0.24	0.20
77.0603	C ₃ H ₉ O ₂	0.00	0.00	-1.08	0.58
78.0106	C ₅ H ₂ O	0.00	0.00	-0.85	0.15
79.0422	C ₅ H ₅ ON	0.00	0.00	0.98	0.64
80.9977	C ₄ HO ₂	0.00	0.00	-0.55	0.08
81.0453	C ₄ H ₅ N ₂	0.00	0.01	-1.98	0.12
82.0531	C ₄ H ₆ N ₂	0.00	0.00	-2.01	0.16
83.0133	C ₄ H ₃ O ₂	0.00	0.00	0.86	0.24
84.0450	C ₄ H ₆ ON	0.01	0.01	-0.69	0.22
84.0814	C ₅ H ₁₀ ON	0.00	0.00	-1.01	0.21
85.0528	C ₄ H ₇ ON	0.00	0.00	-1.19	0.33
85.0654	C ₅ H ₉ O	0.00	0.00	1.59	0.31
85.0892	C ₅ H ₁₁ ON	0.01	0.01	-1.97	0.22
86.0116	C ₂ H ₂ O ₂ N	0.01	0.01	-0.96	0.44
86.0157	C ₇ H ₂	0.00	0.00	1.76	0.29
86.0732	C ₅ H ₁₀ O	0.00	0.00	-2.45	0.07
87.9796	C ₂ O ₄	0.03	0.01	-0.04	0.02
89.0027	C ₆ HO	0.01	0.01	-0.15	0.02
89.0113	C ₂ H ₃ O ₃ N	0.03	0.04	-0.75	0.06
89.0239	C ₃ H ₅ O ₃	0.00	0.00	1.67	0.24
89.0392	C ₇ H ₅	0.05	0.05	-0.25	0.16
89.0603	C ₄ H ₉ O ₂	0.07	0.02	-0.59	0.34
90.0470	C ₇ H ₆	0.01	0.01	-0.39	0.14
91.0395	C ₃ H ₇ O ₃	0.00	0.00	1.87	0.52
92.0110	C ₂ H ₄ O ₄	0.00	0.00	-0.98	0.11
92.0348	C ₂ H ₆ O ₃ N	0.01	0.01	-1.56	0.12
92.0474	C ₃ H ₈ O ₃	0.01	0.02	0.77	0.35
93.0552	C ₃ H ₉ O ₃	0.00	0.00	0.83	0.54
94.0055	C ₅ H ₂ O ₂	0.01	0.01	-0.44	0.05
94.0266	C ₂ H ₆ O ₄	0.01	0.02	0.83	0.16
95.0610	C ₅ H ₇ N ₂	0.01	0.01	-1.36	0.15
96.0000	C ₈	0.02	0.02	-0.34	0.00
96.0211	C ₅ H ₄ O ₂	0.01	0.01	0.84	0.24
96.0324	C ₄ H ₄ ON	0.01	0.01	-1.49	0.02
97.0078	C ₈ H	0.00	0.00	-0.46	0.16
97.0290	C ₅ H ₅ O ₂	0.01	0.01	0.80	0.21
97.0402	C ₄ H ₅ ON	0.00	0.00	-1.46	0.26
98.0004	C ₄ H ₂ O ₃	0.00	0.01	-0.47	0.07

98.0368	C ₅ H ₆ O ₂	0.00	0.00	0.73	0.21
99.0235	C ₈ H ₃	0.02	0.02	0.42	0.20
99.0446	C ₅ H ₇ O ₂	0.02	0.04	0.61	0.17
99.0685	C ₅ H ₉ ON	0.03	0.05	-0.60	0.24
99.0810	C ₆ H ₁₁ O	0.01	0.01	0.65	0.24
100.0161	C ₄ H ₄ O ₃	0.02	0.01	0.30	0.15
100.0399	C ₄ H ₆ O ₂ N	0.01	0.01	-1.09	0.23
100.0637	C ₄ H ₈ ON	0.01	0.01	-0.59	0.21
100.1253	C ₇ H ₁₆	0.00	0.00	-0.09	0.03
101.0239	C ₄ H ₅ O ₃	0.00	0.00	0.96	0.22
101.0392	C ₈ H ₅	0.00	0.01	0.78	0.19
101.0477	C ₄ H ₇ O ₂ N	0.00	0.00	-2.16	0.39
102.0106	C ₇ H ₂ O	0.00	0.00	-0.77	0.05
102.0317	C ₄ H ₆ O ₃	0.00	0.00	1.53	0.21
102.0470	C ₈ H ₆	0.00	0.00	-0.43	0.17
103.0184	C ₇ H ₃ O	0.01	0.01	-0.61	0.14
103.0548	C ₈ H ₇	0.01	0.01	-0.29	0.20
104.0348	C ₃ H ₆ O ₃ N	0.02	0.01	-0.98	0.12
105.0188	C ₃ H ₅ O ₄	0.00	0.00	-1.20	0.25
105.0552	C ₄ H ₉ O ₃	0.00	0.00	1.16	0.62
106.0055	C ₆ H ₂ O ₂	0.00	0.00	-0.25	0.02
108.0000	C ₉	0.02	0.03	-0.22	0.08
108.0576	C ₇ H ₈ O	0.04	0.02	-0.36	0.22
109.0078	C ₉ H	0.00	0.00	-0.47	0.09
109.0528	C ₆ H ₇ ON	0.00	0.00	-1.29	0.15
110.0606	C ₆ H ₈ ON	0.00	0.00	-1.66	0.25
111.0685	C ₆ H ₉ ON	0.00	0.00	-1.48	0.27
111.1175	C ₈ H ₁₅	0.03	0.05	-1.36	0.27
112.0161	C ₅ H ₄ O ₃	0.00	0.00	0.81	0.25
112.0637	C ₅ H ₈ ON	0.00	0.00	-0.95	0.05
113.0239	C ₅ H ₅ O ₃	0.02	0.01	0.49	0.21
113.0967	C ₇ H ₁₃ O	0.01	0.01	0.41	0.19
113.1331	C ₈ H ₁₇	0.02	0.03	-0.90	0.48
114.0317	C ₅ H ₆ O ₃	0.00	0.00	0.75	0.17
114.0470	C ₉ H ₆	0.01	0.01	-0.45	0.20
114.1409	C ₈ H ₁₈	0.00	0.00	-0.13	0.03
115.0031	C ₄ H ₃ O ₄	0.00	0.00	-0.62	0.03
115.0395	C ₅ H ₇ O ₃	0.00	0.00	2.93	0.19
115.0760	C ₆ H ₁₁ O ₂	0.01	0.01	-1.23	0.71
116.0110	C ₄ H ₄ O ₄	0.00	0.00	-0.37	0.07
116.0474	C ₅ H ₈ O ₃	0.00	0.00	1.81	0.46
116.0586	C ₄ H ₈ O ₂ N	0.00	0.00	2.20	0.55
116.0626	C ₉ H ₈	0.00	0.00	-0.85	0.40

	117.0552	C ₅ H ₉ O ₃	0.00	0.00	1.76	0.36
	117.9902	C ₃ H ₂ O ₅	0.00	0.00	-0.09	0.03
	118.0419	C ₈ H ₆ O	0.00	0.00	1.44	0.31
	118.0630	C ₅ H ₁₀ O ₃	0.00	0.00	-1.79	0.19
	118.0743	C ₄ H ₁₀ O ₂ N	0.00	0.00	2.26	0.41
	118.9980	C ₃ H ₃ O ₅	0.02	0.03	0.10	0.07
	119.0709	C ₅ H ₁₁ O ₃	0.00	0.00	0.94	0.51
	120.0576	C ₈ H ₈ O	0.03	0.04	-0.90	0.31
Straw open burning	36.0000	C ₃	0.02	0.04	-2.42	0.36
	58.0419	C ₃ H ₆ O	0.02	0.03	0.35	0.24
	58.0657	C ₃ H ₈ ON	0.05	0.04	0.84	0.78
	59.0735	C ₃ H ₉ ON	0.07	0.02	0.50	0.63
	100.0525	C ₅ H ₈ O ₂	0.06	0.03	0.61	0.86
	120.0576	C ₈ H ₈ O	0.04	0.04	0.81	0.47
	13.0078	CH	0.01	0.02	-1.06	0.45
15.0235	CH ₃	0.02	0.03	-1.01	0.42	
15.9949	O	0.01	0.02	-0.98	0.26	
17.0027	HO	0.01	0.02	-1.28	0.39	
18.0106	H ₂ O	0.01	0.02	-1.35	0.41	
27.9949	CO	0.03	0.04	-1.21	0.49	
29.0392	C ₂ H ₅	0.03	0.05	0.48	0.17	
30.0470	C ₂ H ₆	0.03	0.04	-1.15	0.64	
41.0027	C ₂ HO	0.04	0.04	-1.13	0.69	
41.0266	C ₂ H ₃ ON	0.04	0.04	1.86	0.64	
43.0184	C ₂ H ₃ O	0.03	0.02	-0.76	0.47	
43.9898	CO ₂	0.01	0.02	-1.36	0.42	
51.9949	C ₃ O	0.06	0.04	-0.49	0.36	
53.0027	C ₃ HO	0.03	0.02	-0.67	0.39	
59.0371	C ₂ H ₅ ON	0.06	0.02	1.73	1.34	
64.0187	C ₄ H ₂ ON	0.06	0.05	0.95	0.69	
68.9977	C ₃ HO ₂	0.04	0.01	-1.43	1.11	
70.0657	C ₄ H ₈ ON	0.01	0.01	1.47	0.58	
72.0450	C ₃ H ₆ ON	0.03	0.03	1.32	0.71	
72.0814	C ₄ H ₁₀ ON	0.02	0.03	0.85	0.41	
80.0501	C ₅ H ₆ ON	0.02	0.01	1.43	0.74	
83.0133	C ₄ H ₃ O ₂	0.03	0.05	-1.37	0.61	
85.0290	C ₄ H ₅ O ₂	0.03	0.03	-1.29	0.72	
86.0606	C ₄ H ₈ ON	0.05	0.03	0.41	0.41	
86.0970	C ₅ H ₁₂ ON	0.03	0.04	0.75	0.48	
92.0110	C ₂ H ₄ O ₄	0.03	0.04	-0.21	0.25	
92.0626	C ₇ H ₈	0.04	0.04	0.62	0.41	
93.0705	C ₇ H ₉	0.03	0.04	0.63	0.30	
100.0889	C ₆ H ₁₂ O	0.03	0.00	0.36	0.27	

103.9898	C ₆ O ₂	0.04	0.04	0.13	0.08
105.0341	C ₇ H ₅ O	0.04	0.04	-1.59	0.85
105.0705	C ₈ H ₉	0.02	0.01	0.54	0.24
106.0783	C ₈ H ₁₀	0.03	0.04	0.72	0.38
107.0861	C ₈ H ₁₁	0.03	0.04	0.71	0.36
108.0211	C ₆ H ₄ O ₂	0.03	0.02	-0.79	0.42
111.0810	C ₇ H ₁₁ O	0.02	0.01	0.79	0.54
112.0763	C ₆ H ₁₀ ON	0.04	0.02	0.49	0.36
115.0031	C ₄ H ₃ O ₄	0.02	0.02	-0.07	0.32
116.0110	C ₄ H ₄ O ₄	0.03	0.04	0.07	0.04
119.0861	C ₉ H ₁₁	0.01	0.01	0.61	0.20
120.0940	C ₉ H ₁₂	0.04	0.04	0.60	0.32
