

Table S1 Calibration of each VOC species

serial num ber	Chemical name	Quant itative ion m/z	Linearly coefficient R		serial numb er	Chemical name	Quantitat ive ion m/z	Linearly coefficient R	
			(A)	(B)				(A)	(B)
1	Ethylene	/	0.999 9	/	60	cyclohexane	84	0.999 8	0.9987
2	Acetylene	/	0.999 9	/	61	2-methylhexane	43	0.999 7	0.9988
3	Ethane	/	0.999 8	/	62	2, 3- dimethylpentane	56	0.999 9	0.9993
4	Propylene	41	0.999 5	/	63	Amyl aldehyde	44	0.998 6	0.9982
5	Propane	29	0.999 7	0.999 4	64	3-methylhexane	43	0.997 1	0.9989
6	Difluorodichlor omethane	85	0.999 9	0.997 6	65	1, 2- dichloropropane	63	0.999 9	0.9991
7	Chloromethane	50	0.999 8	0.996 2	66	Monobromodichl oromethane	83	0.999 7	0.9991
8	Acetaldehyde	29	0.999 0	0.996 1	67	1, 4-dioxane	88	0.996 7	0.9983
9	Isobutane	43	0.999 7	0.995 2	68	trichloroethylene	130	0.999 7	0.9997
10	Tetrafluorodich loroethane	85	0.999 7	0.997 7	69	2,2, 4- trimethylpentane	57	0.999 9	0.9991
11	Vinyl chloride	62	0.999 7	0.996 6	70	Methyl methacrylate	69	0.998 9	0.9987
12	1 - butylene	41	0.999 5	0.995 6	71	n-heptane	71	0.999 9	0.9993
13	1, 3 - butadiene	54	0.999 1	0.997 6	72	Cis-1, 3- dichloro-1- propene	75	0.998 3	0.9987
14	N-butane	43	0.999 6	0.998 1	73	4-methyl-2- pentanone	58	0.997 7	0.9971
15	Trans-but-2- ene	41	0.999 4	0.996 5	74	1, 1- dibromoethane	107	0.999 8	0.9988
16	Methyl bromide	94	0.999 7	0.999 3	75	Methylcyclohexa ne	83	0.999 8	0.9957
17	cis-but-2-ene	41	0.998 6	0.997 8	76	Tran-1, 3- dichloro-1- propene	75	0.995 8	0.9984
18	Chloroethane	64	0.999 6	0.998 9	77	1,1, 2- trichloroethane	97	0.999 8	0.9992

19	Ethanol	31	0.999 1	0.996 5	78	2,3, 4- trimethylpentane	71	0.999 4	0.9991
20	Acrolein	56	0.998 9	0.997 9	79	Toluene	91	0.999 9	0.9992
21	Acetone	43	0.999 7	0.997 4	80	2-methylheptane	57	0.999 8	0.9992
22	Propanal	29	0.999 5	0.996 0	81	2 - hexanone	43	0.994 6	0.9977
23	Isopentane	57	0.997 4	0.997 7	82	3-methylheptane	85	0.999 7	0.9989
24	Monofluorotri- chloromethane	101	0.999 6	0.999 0	83	Hexanal	56	0.997 6	0.9957
25	Isopropyl alcohol	45	0.998 6	0.996 9	84	Dibromochlorom- ethane	129	0.999 5	0.9988
26	1 - amylene	55	0.997 1	0.998 3	85	1, 2- dibromoethane	107	0.999 6	0.9989
27	Isopentane	43	0.998 6	0.998 3	86	Octane	43	0.999 7	0.9983
28	Isoprene	67	0.998 5	0.999 0	87	Tetrachloroethyle- ne	166	0.999 7	0.9996
29	Tr-2-pentene	55	0.999 5	0.998 6	88	Chlorobenzene	112	0.999 9	0.9995
30	1, 1- dichloroethylen- e	61	0.999 3	0.998 1	89	Ethyl benzene	91	0.999 9	0.9994
31	cis-2-pentene	55	0.999 4	0.998 6	90/91	M/p-xylene	91	0.999 9	0.9993
32	Methylene chloride	84	0.999 7	0.998 3	92	Three methyl bromide	173	0.999 3	0.9985
33	Carbon disulfide	76	0.999 6	0.999 1	93	styrene	104	0.999 9	0.9992
34	Trifluorotrichlo- roethane	101	0.999 7	0.998 8	94	tetrachloroethane	83	0.999 8	0.9978
35	2, 2- dimethylbutane	57	0.999 3	0.998 6	95	o-xylene	91	0.999 9	0.9991
36	Methylacrolein	70	0.997 8	0.998 7	96	Isnonane	57	0.999 9	0.9997
37	Tr-1, 2- dichloroethylen- e	61	0.999 8	0.998 5	97	Isopropyl benzene	105	1.000 0	0.9994
38	1, 1- dichloroethane	63	0.999 8	0.998 1	98	benzaldehyde	106	0.994 8	0.9986
39	cyclopentane	70	0.999 2	0.999 0	99	Normal propyl benzene	91	1.000 0	0.9995

40	Methyl tert-butyl ether	73	0.9975	0.9992	100	M-ethyl toluene	105	0.9999	0.9994
41	2,3-Dimethylbutane	43	0.9997	0.9988	101	Para-ethyl toluene	105	0.9999	0.9995
42	Vinyl acetate	43	0.9994	0.9968	102	1,3, 5-trimethylbenzene	105	0.9999	0.9996
43	2-methylpentane	71	0.9997	0.9984	103	O-ethyl toluene	105	0.9999	0.9992
44	N-butyl aldehyde	44	0.9989	0.9952	104	1,2, 4-trimethylbenzene	105	0.9999	0.9996
45	2 - butanone	43	0.9992	0.9983	105	Isdecane	57	0.9998	0.9979
46	3-methylpentane	57	0.9996	0.9989	106	Chlorinated toluene	91	0.9894	0.9994
47	1 - hexene	56	0.9996	0.9988	107	1, 3 - dichlorobenzene	146	0.9998	0.9993
48	Cis-1, 2-dichloroethylene	61	0.9998	0.9989	108	1, 4 - dichlorobenzene	146	0.9997	0.9993
49	Ethyl acetate	61	0.9992	0.9951	109	1,2, 3-trimethylbenzene	105	0.9999	0.9995
50	n-hexane	57	0.9999	0.9988	110	1, 2 - Dichlorobenzene	146	0.9999	0.9997
51	chloroform	83	0.9999	0.9985	111	m-Diethylbenzene	105	0.9999	0.9995
52	tetrahydrofuran	42	0.9965	0.9955	112	p-diethylbenzene	105	0.9999	0.9997
53	Crotonaldehyde	70	0.9961	0.9958	113	m-methylbenzaldehyde	120	0.9995	0.9914
54	1, 2-dichloroethane	62	0.9999	0.9986	114	Is undecane	57	0.9999	0.9978
55	Methylcyclopentane	69	0.9962	0.9987	115	1, 4-trichlorobenzene	180	0.9998	0.9998
56	2, 4-dimethylpentane	57	0.9999	0.9989	116	Fodecanoic	57	1.0000	0.9996
57	1,1, 1-trichloroethane	97	0.9996	0.9992	117	Naphthalene	128	0.9998	0.9963
58	Benzene	78	0.9999	0.9967	118	Hexachlorobutadiene	225	0.9999	0.9999

59	Carbon tetrachloride	117	0.999 4	0.999 1	
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