

Table S2. Normalized difference frequency shifts obtained with the STW sensor array.

Samples were (a) chloroform, (b) octane, and (c) xylene. One representative measurement was chosen from each of the three solvent vapor concentrations (see Table 3); and the difference frequency shifts of all sensors were normalized to the corresponding difference frequency shift of sensor 1 (i.e., the maximum difference frequency shift). The following tables summarize mean \pm standard deviation (S) values of the difference frequency shifts as well as relative standard deviations (RSD) obtained for each measurement date ($n = 3$). RSD values in the table result from unrounded mean and standard deviation values.

Table S2. (a) Chloroform

Sensor No.	Month 1		Month 7		Month 13		Month 19		Month 25		Month 31		Month 37	
	Mean \pm S	RSD	Mean \pm S	RSD	Mean \pm S	RSD	Mean \pm S	RSD	Mean \pm S	RSD	Mean \pm S	RSD	Mean \pm S	RSD
	[-]	[%]	[-]	[%]	[-]	[%]	[-]	[%]	[-]	[%]	[-]	[%]	[-]	[%]
1	1.000 \pm 0.000	0.0	1.000 \pm 0.000	0.0	1.000 \pm 0.000	0.0	1.000 \pm 0.000	0.0	1.000 \pm 0.000	0.0	1.000 \pm 0.000	0.0	1.000 \pm 0.000	0.0
2	0.133 \pm 0.008	5.8	0.111 \pm 0.008	7.2	0.116 \pm 0.004	3.7	0.104 \pm 0.004	3.6	0.105 \pm 0.006	5.4	0.096 \pm 0.005	5.3	0.100 \pm 0.003	3.5
3	0.433 \pm 0.003	0.7	0.429 \pm 0.002	0.6	0.418 \pm 0.006	1.6	0.421 \pm 0.010	2.3	0.415 \pm 0.002	0.4	0.411 \pm 0.007	1.7	0.399 \pm 0.005	1.2
4	0.261 \pm 0.007	2.6	0.250 \pm 0.001	0.6	0.242 \pm 0.002	0.8	0.249 \pm 0.006	2.6	0.243 \pm 0.006	2.6	0.242 \pm 0.006	2.5	0.235 \pm 0.004	1.5
5	0.104 \pm 0.001	1.1	0.105 \pm 0.004	3.5	0.103 \pm 0.005	4.7	0.102 \pm 0.004	3.5	0.103 \pm 0.002	1.6	0.099 \pm 0.003	3.4	0.102 \pm 0.002	2.4
6	0.181 \pm 0.002	0.9	0.179 \pm 0.007	3.7	0.183 \pm 0.002	1.2	0.174 \pm 0.003	1.9	0.183 \pm 0.002	0.9	0.171 \pm 0.002	1.4	0.176 \pm 0.003	1.6
7	0.059 \pm 0.002	2.7	0.061 \pm 0.003	4.4	0.057 \pm 0.004	6.5	0.056 \pm 0.005	8.9	0.057 \pm 0.003	5.6	0.056 \pm 0.005	8.6	0.056 \pm 0.005	9.4
8	0.137 \pm 0.004	3.0	0.146 \pm 0.010	6.6	0.149 \pm 0.003	1.8	0.144 \pm 0.003	1.9	0.159 \pm 0.004	2.3	0.141 \pm 0.003	2.3	0.166 \pm 0.003	1.6

Table S2. (b) Octane

Sen- sor No.	Month 1		Month 7		Month 13		Month 19		Month 25		Month 31		Month 37	
	Mean \pm S	RSD	Mean \pm S	RSD	Mean \pm S	RSD	Mean \pm S	RSD	Mean \pm S	RSD	Mean \pm S	RSD	Mean \pm S	RSD
	[-]	[%]	[-]	[%]	[-]	[%]	[-]	[%]	[-]	[%]	[-]	[%]	[-]	[%]
1	n/a	n/a	1.000 \pm 0.000	0.0	1.000 \pm 0.000	0.0	1.000 \pm 0.000	0.0	1.000 \pm 0.000	0.0	1.000 \pm 0.000	0.0	1.000 \pm 0.000	0.0
2	n/a	n/a	0.102 \pm 0.011	10.7	0.097 \pm 0.001	1.2	0.093 \pm 0.002	2.6	0.092 \pm 0.002	2.6	0.087 \pm 0.004	4.8	0.090 \pm 0.002	2.4
3	n/a	n/a	0.222 \pm 0.018	7.9	0.212 \pm 0.015	7.3	0.220 \pm 0.014	6.5	0.220 \pm 0.013	5.9	0.215 \pm 0.012	5.4	0.213 \pm 0.012	5.5
4	n/a	n/a	0.087 \pm 0.004	5.0	0.086 \pm 0.003	3.6	0.085 \pm 0.003	3.5	0.088 \pm 0.003	3.6	0.085 \pm 0.001	1.7	0.087 \pm 0.002	2.5
5	n/a	n/a	0.184 \pm 0.010	5.3	0.165 \pm 0.002	1.0	0.164 \pm 0.002	1.0	0.164 \pm 0.002	0.9	0.157 \pm 0.005	3.1	0.159 \pm 0.003	1.7
6	n/a	n/a	0.415 \pm 0.016	3.8	0.404 \pm 0.007	1.6	0.397 \pm 0.006	1.4	0.413 \pm 0.006	1.6	0.383 \pm 0.001	0.3	0.392 \pm 0.008	2.0
7	n/a	n/a	0.112 \pm 0.006	5.4	0.107 \pm 0.003	2.8	0.113 \pm 0.002	1.6	0.116 \pm 0.001	1.3	0.117 \pm 0.001	0.9	0.119 \pm 0.001	0.9
8	n/a	n/a	0.693 \pm 0.047	6.8	0.685 \pm 0.026	3.8	0.691 \pm 0.027	3.9	0.710 \pm 0.031	4.3	0.699 \pm 0.028	4.0	0.714 \pm 0.024	3.3

Table S2. (c) Xylene

Sen- sor No.	Month 1		Month 7		Month 13		Month 19		Month 25		Month 31		Month 37	
	Mean \pm S	RSD	Mean \pm S	RSD	Mean \pm S	RSD	Mean \pm S	RSD	Mean \pm S	RSD	Mean \pm S	RSD	Mean \pm S	RSD
	[-]	[%]	[-]	[%]	[-]	[%]	[-]	[%]	[-]	[%]	[-]	[%]	[-]	[%]
1	1.000 \pm 0.000	0.0	1.000 \pm 0.000	0.0	1.000 \pm 0.000	0.0	1.000 \pm 0.000	0.0	1.000 \pm 0.000	0.0	1.000 \pm 0.000	0.0	1.000 \pm 0.000	0.0
2	0.103 \pm 0.006	6.1	0.086 \pm 0.009	9.9	0.089 \pm 0.006	6.7	0.078 \pm 0.003	3.5	0.078 \pm 0.002	1.9	0.072 \pm 0.002	3.4	0.076 \pm 0.003	4.2
3	0.586 \pm 0.028	4.7	0.586 \pm 0.025	4.3	0.541 \pm 0.035	6.5	0.567 \pm 0.010	1.8	0.535 \pm 0.045	8.5	0.547 \pm 0.011	2.0	0.509 \pm 0.027	5.2
4	0.169 \pm 0.005	2.7	0.151 \pm 0.005	3.4	0.147 \pm 0.007	5.0	0.150 \pm 0.003	1.7	0.141 \pm 0.003	2.0	0.145 \pm 0.003	1.9	0.141 \pm 0.003	1.8
5	0.148 \pm 0.003	1.9	0.137 \pm 0.005	3.3	0.132 \pm 0.002	1.7	0.129 \pm 0.004	3.3	0.133 \pm 0.005	4.0	0.125 \pm 0.005	4.1	0.127 \pm 0.002	1.7
6	0.257 \pm 0.002	0.8	0.249 \pm 0.003	1.2	0.254 \pm 0.003	1.1	0.244 \pm 0.003	1.1	0.255 \pm 0.002	0.8	0.232 \pm 0.006	2.6	0.240 \pm 0.004	1.7
7	0.065 \pm 0.001	1.4	0.072 \pm 0.004	5.5	0.068 \pm 0.001	1.8	0.070 \pm 0.001	1.7	0.072 \pm 0.002	2.7	0.072 \pm 0.001	1.6	0.073 \pm 0.001	1.1
8	0.257 \pm 0.018	7.1	0.272 \pm 0.013	4.7	0.295 \pm 0.019	6.5	0.282 \pm 0.021	7.3	0.332 \pm 0.018	5.4	0.285 \pm 0.032	11.3	0.347 \pm 0.010	2.8