

Supporting Information Available

Supporting Table. Correlations between the volatiles identified in cooked salmon, where the correlation factor was ≥ 0.97 .

Code ^(a)	Compound Identity	Correlating Volatiles (Correlation Coefficient ≥ 0.97)
(a01)	1-butanol	a02, a03, a04, b03, c01, d01, d03, d06, e013, k03, k06, t04, u02
a02	1-pentanol	a01, a03, a04, b03, c01, d01, d03, d06, e06, e013, k03, k06, l01, l02, m01, t04, t01
(a03)	1-hexanol	a01, a02, a04, b03, c01, d01, d06, e013, k03, k06, t04, t01, u02
(a04)	1-heptanol	a01, a02, a03, b03, c01, d06, e06, e013, f07, k06, n02, p04
a05	1-nonal	
b01	1-penten-3-ol	
b02	2-penten-1-ol	
b05	1-octen-3-ol	b04, e010, d03, l04, d03
(b03)	1-hexen-3-ol	a01, a02, a03, a04, c01, d01, d03, d06, e06, e013, k03, k06, t04, t01, u02
(b04)	1,5-octadien-3-ol	b05, e010, d03, h01, e05, e07, k06, l01, l02, p03, q01, q02, s01
(c01)	cyclopentanone	a01, a02, a03, a04, b03, d01, d03, d06, e06, e013, e07, k03, k06, l01, l02, n02, t04, t01, u02
c02	2-cyclohexene-1,4-dione	
(d01)	butanal	a01, a02, a03, b03, c01, k03, t04, u02
d02	3-methylbutanal	d03, l01
(d03)	2-methylbutanal	a01, a02, b05, b03, b04, c01, d02, h01, e07, e010, k03, k06, l01, l02, p03, q02, s01, t01, u02
d04	pentanal	
d05	hexanal	
(d06)	heptanal	a01, a02, a03, a04, b03, c01, d07, e06, e013, k06, l02, t01
(h01)	benzaldehyde	b04, d03, d07, e03, e07, e010, k06, l01, p03, q01, q02, t01
(d07)	octanal	d06, h01, e013, k06, t01
h02	benzeneacetaldehyde	
d08	nonanal	
d09	decanal	
h03	4-ethylbenzaldehyde	
e02	2-methyl-2-butenal	f01
e04	2-hexenal	e01, f08, p01
e05	4-heptenal	b04, e013, k08, p01, p02, s01, t06
(e06)	2-heptenal	a02, a04, b03, c01, d06
e08	2,4-heptadienal (isomer)	e011, e07
e09	2-octenal	k06
(e011)	2,4-octadienal	e08, e07, t05
(e013)	2-nonenal	a01, a02, a03, a04, b03, c01, d06, d07, e05, e014, k06, l02
e014	2-decenal	e013
e03	2-pentenal	h01, l01, p01, p03, q01, q02
(e01)	2-butenal	e04, p03
(e07)	2,4-heptadienal (isomer)	b04, c01, e08, e011, e010, d03, h01, k06, l01, l02, p03, q02, t01
e012	2,6-nonadienal	
(e010)	3,6-nonadienal	b05, b04, d03, h01, e07, k06, l01, l02, p03, s01
(f01)	2-methylfuran	e02
f02	2-ethylfuran	

f04	2-ethyl-5-methylfuran	
f03	2-propylfuran	
f05	2-furfural	
(f07)	2-acetyl furan	a04
f08	5-methylfurfural	e04, l03
f09	2-pentylfuran	
f10	2-(2-pentenyl)furan	
f06	2,5-diethylfuran	
f11	5-ethyl-5-methoxy-2(5H)-furanone	
g01	2-hydroxybenzaldehyde	
g02	acetophenone	
j01	2-furanmethanethiol	
j02	2-methyl-3-furyl -1-methyl-2-oxopropyl disulfide	
k01	2-butanone	
k04	2,3-pantanedi one	
(k03)	2-pantanone	a01, a02,a03, b03, c01, d01, d03, m01, t04, t01, u02
k05	3-hydroxy-2-butanone	
(k06)	2-heptanone	a01, a02, a03, a04, b03, b04, c01, d03, d06, h01, d07, e09, e013, e07, e010, l01, n02, q02, t0
k07	2,3-octanedione	
(k08)	2-nonanone	e05, n01, q03
k02	2,3-butanedi one	
(l01)	3-penten-2-one	a02, b04, c01, d02, d03, h01, e03, e07, e010, k06, l02, p03, q02, s01
(l04)	3,5-octadien-2-one	b05
(l03)	spectrum like 3,5-octadien-2-one	f08
(l02)	6-octen-2-one	a02, b04, c01, d03, d06, e013, e07, l01, t01
m01	trimethylamine	a02, k03
n01	pyridine	k08
n02	1 <i>H</i> -pyrrole	a04, c01, k06, n04, q03, t01, t02
n03	2-methylpyridine	s05
(n04)	2-ethylpyridine	n02, q03
n05	3-ethylpyridine	
(p01)	pyrazine	e04, e05, e03, p02, t06
(p02)	methylpyrazine	e05, p01, t06
(p03)	ethylpyrazine	b04, d03, h01, e03, e01, e07, e010, l01, q01, q02, s01
p04	2,5(or6)-dimethylpyrazine	q03, t06
(q05)	a 1,3,5(or 6)-octatriene	q06, u01, x02
q06	a 1,3,5(or 6)-octatriene	q05, q02, u01, x02
(q01)	2,4-octadiene (isomer)	b04, h01, e03, l01, p03, q02
(q02)	2,4-octadiene (isomer)	b04, d03, h01, e03, e07, k06, l01, p03, q06, q01, t01
q03	1,3-octadiene	k08, n02, n04, p04, q03, t02, t03
q04	a 1,3,5(or 6)-octatriene	r02
r01	α -pinene	
(r02)	camphene	q04
r04	1-methyl-3-(1-methylethyl) benzene (m-cymene)	
r03	1-methyl-4-(1-methylethyl)-1,3-cyclohexadiene (a-terpinene)	
(s02)	dimethyl disulfide	s03

s03	methional	s02
s04	dimethyl trisulfide	
s05	3-methyl-1,2-dithiolan-4-one	n03, s05, g03
s06	3,5-dimethyl, 1,2-dithiolan-4-one (isomer)	
s07	3,5-dimethyl, 1,2-dithiolan-4-one (isomer)	
s09	4-methyl-1,2-dithiepane	
s010	3-methyl-1,2-dithian-4-one	
s08	1,2-Dithian-4-one	
(s01)	methanethiol	b04, d03, e05, e010, l01 p03
(t04)	thiophene	a01, a02, a03, b03, c01, d01, k03, t01, u02
(t01)	2-methylthiophene	a02, a03, b03, c01, d03, d06, h01, d07, e07, k03, k06, l02, n02, q02, t04, t05, t02
(t05)	3-methylthiophene	e011, t01
(t02)	2-ethylthiophene	n02, q03, t01, t02
(t06)	4,5-dihydro-2-methyl-3(2H)-thiophenone	e05, p01, p02, p04, s08
(t07)	2-thiophenecarboxaldehyde	n05, t08
(t03)	2-ethylthiapyran	q03
(t08)	3-methyl-2-thiophenecarboxaldehyde	n05, t07
t09	5-methyl-2-thiophenecarboxaldehyde	
t010	2,3-Dihydro-6-methylthieno[2,3c]furan	n05, g03, z01, z06, z07
t011	a dimethylthiophenecarboxaldehyde	
(g03)	4-(methylthio)phenol	n05, s05, t010
(u01)	MW 124 : 41(56), 53(45), 55(37), 79(92), 81(100), 95(19), 109(10), 124(57)	q05, q06
(u02)	a hexenylcyclopentene : 41(95), 67(38), 79(100), 105(15)	a01, a03, b03, c01, d01, d03, k03, t04
u03	MW 150 : 41(49), 54(84), 67(63), 79(100), 81(81), 91(35), 96(50), 107(23), 121(29), 150(4)	u04
(u04)	MW 150 : 41(34), 54(47), 67(47), 79(100), 81(55), 91(30), 96(27), 107(22), 121(17), 150(3)	u03
u05	MW 176 : 41(75), 43(80), 57(91), 71(52), 79(100), 81(57), 91(76), 108(58), 120(44), 176(2)	
x01	toluene	
x03	p-xylene	
(x02)	m-xylene	q05, q06
x04	1-ethyl-3-methylbenzene	
(z01)	thiazole	t010, z07
z02	4-methylthiazole	
z03	2-methylthiazole	
z04	4,5-dimethylthiazole	
z05	5-ethylthiazole	
z06	2-acetylthiazole	t010, z07
(z07)	1-(2-thiazolyl)-1-propanone	t010, z01, z06

^(a) (code) denotes compound not included in principal component analysis due to high correlation with other compounds