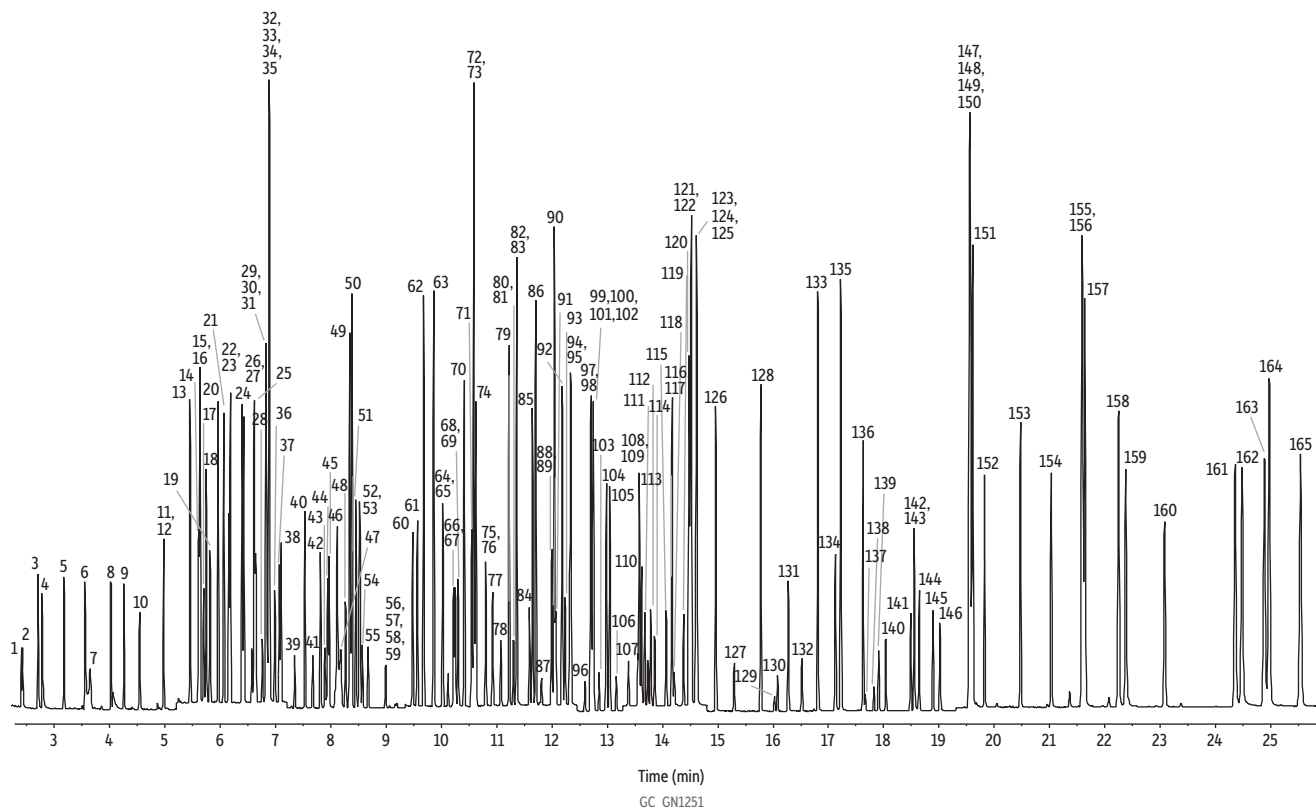
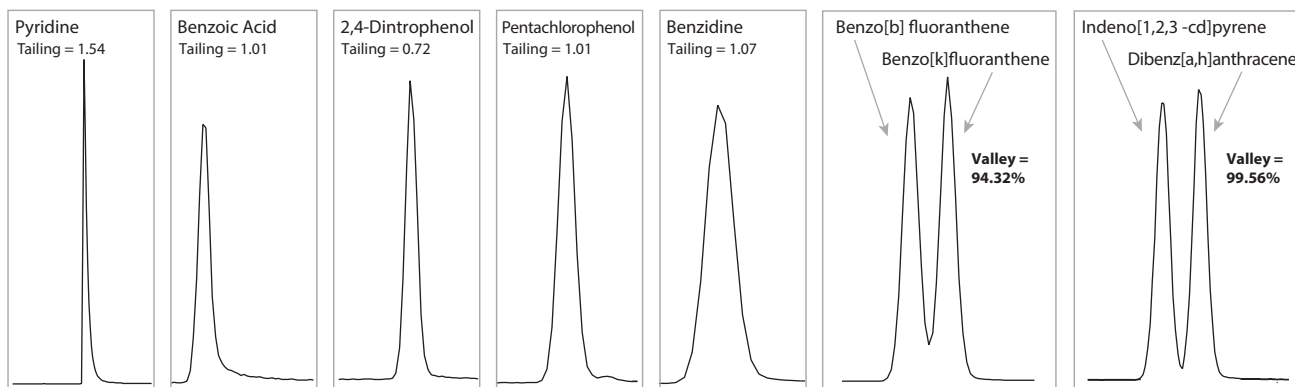


Semivolatiles on RMX-5Sil MS by Method 8270D (GC-MS in SIM Mode)



Column RMX-5Sil MS, 30 m, 0.25 mm ID, 0.25 µm (cat.# 17323)

SIM Program:

Standard/Sample
Methapyrilene (cat.# 32460)
Appendix IX mix #1, revised (cat.# 32459)
SVOC additions (cat.# 31909)
Benzoic acid (cat.# 31879)
8270 MegaMix (cat.# 31850)
Appendix IX mix #2 (cat.# 31806)
Acid surrogate mix (4/89 SOW) (cat.# 31025)
Base neutral surrogate mix (4/89 SOW) (cat.# 31024)
Revised SV internal standard mix (cat.# 31886)
Methylene chloride
200 ng/mL

Diluent:
Conc.:
Injection
Inj. Vol.:
Liner:
Inj. Temp.:
Split Vent Flow Rate:
Oven
Oven Temp.:

Carrier Gas
Flow Rate:
Linear Velocity:
Detector
Mode:

1 µL split (split ratio 10:1)
Topaz 4.0 mm ID single taper liner w/wool (cat.# 23303)
250 °C
12 mL/min
40 °C (hold 1 min) to 280 °C at 12.4 °C/min to 330 °C at 3.3 °C/min (hold 3.65 min)

Transfer Line Temp.: 280 °C
Analyzer Type: Quadrupole
Source Temp.: 330 °C
Quad Temp.: 180 °C
Solvent Delay Time: 2 min
Tune Type: PFTBA
Ionization Mode: EI
Instrument Notes

Group	Start Time (min)	Ion(s) (m/z)	Dwell (ms)
1	2	see peak list	300
2	5.2	see peak list	286
3	7.2	see peak list	289
4	9.35	see peak list	285
5	10.7	see peak list	273
6	12.45	see peak list	290
7	13.29	see peak list	280
8	14.8	see peak list	300
9	17.4	see peak list	297
10	19.3	see peak list	285

Agilent 7890B GC & 5977B MSD
To simplify ordering, the SVOC MegaMix 150 kit (cat.# 31907) contains one ampul each of the following standards that were used in this experiment.
• 8270 MegaMix (cat.# 31850)
• SVOC Additions standard (cat.# 31909)
• Appendix IX mix #1, revised (cat.# 32459)
• Methapyrilene (cat.# 32460)
• Appendix IX mix #2 (cat.# 31806)
• Benzoic acid (cat.# 31879)

Peaks	tr (min)	Conc. (ng/mL)	SIM Ion	Dwell Time (ms)	Ion Group	Peaks	tr (min)	Conc. (ng/mL)	SIM Ion	Dwell Time (ms)	Ion Group
1. 1,4-Dioxane-d8	2.401	200	96	25	1	84. 3-Nitroaniline	11.591	200	65	13	5
2. 1,4-Dioxane	2.427	200	88	25	1	85. Acenaphthene-d10	11.649	200	162	13	5
3. N-Nitrosodimethylamine	2.702	200	74	25	1	86. Acenaphthene	11.706	200	153	13	5
4. Pyridine	2.774	200	79	25	1	87. 2,4-Dinitrophenol	11.809	200	184	13	5
5. Ethyl methacrylate	3.175	200	69	25	1	88. 4-Nitrophenol	11.996	200	139	13	5
6. 2-Picoline	3.554	200	93	25	1	89. Pentachlorobenzene	11.996	200	250	13	5
7. N-Nitrosomethylethylamine	3.648	200	42	25	1	90. Dibenzofuran	12.043	200	84	13	5
8. Methyl methanesulfonate	4.021	200	80	25	1	91. 2,4-Dinitrotoluene	12.183	200	89	13	5
9. 2-Fluorophenol	4.258	200	112	25	1	92. 1-Naphthylamine (1-aminonaphthalene)	12.235	200	143	13	5
10. Acrylamide	4.543	200	71	25	1	93. 2,3,5,6-Tetrachlorophenol	12.339	200	232	13	5
11. N-Nitrosodiethylamine	4.977	200	102	25	1	94. 2,3,4,6-Tetrachlorophenol	12.339	200	230	13	5
12. Ethyl methanesulfonate	4.977	200	109	25	1	95. 2-Naphthylamine (2-aminonaphthalene)	12.339	200	115	13	5
13. Benzaldehyde	5.454	200	77	11	2	96. Diethylphthalate	12.596	200	149	13	5
14. Phenol-d6	5.612	200	99	11	2	97. n-Hexadecane (C16)	12.703	200	57	29	6
15. Phenol	5.633	200	94	11	2	98. Fluorene	12.703	200	166	29	6
16. Aniline	5.633	200	93	11	2	99. Zalophus (thionazine)	12.746	200	107	29	6
17. Pentachloroethane	5.7	200	167	11	2	100. 4-Chlorophenyl phenyl ether	12.746	200	204	29	6
18. Bis(2-chloroethyl)ether	5.743	200	63	11	2	101. 4-Nitroaniline	12.746	200	65	29	6
19. 2-Chlorophenol	5.814	200	128	11	2	102. 5-Nitro-o-toluidine	12.746	200	152	29	6
20. n-Decane (C10)	5.962	200	57	11	2	103. 4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	12.852	200	198	29	6
21. 1,3-Dichlorobenzene	6.066	200	146	11	2	104. Diphenylamine†	12.98	200	169	29	6
22. 1,4-Dichlorobenzene-d4	6.154	200	150	11	2	105. Azobenzene*	13.044	200	77	29	6
23. 1,4-Dichlorobenzene	6.18	200	148	11	2	106. 2,4,6-Tribromophenol	13.162	200	330	29	6
24. Benzyl alcohol	6.393	200	79	11	2	107. Sulfotepp	13.385	200	322	14	7
25. 1,2-Dichlorobenzene	6.426	200	111	11	2	108. 1,3,5-Trinitrobenzene	13.581	200	213	14	7
26. 2-Methylphenol (o-cresol)	6.611	200	108	11	2	109. Phenacetin	13.581	200	108	14	7
27. 2,2'-Oxybis(1-chloropropane)	6.634	200	45	11	2	110. Phorate	13.618	200	75	14	7
28. N-Nitrosopyrrolidine	6.765	200	100	11	2	111. 4-Bromophenyl phenyl ether	13.677	200	248	14	7
29. Acetophenone	6.825	200	105	11	2	112. Diallate	13.735	200	43	14	7
30. N-Nitrosomorpholine	6.825	200	56	11	2	113. Hexachlorobenzene	13.788	200	284	14	7
31. N-Nitroso-di-n-propylamine	6.825	200	43	11	2	114. Dimethoate	13.857	200	87	14	7
32. 3-Methylphenol (m-cresol)	6.885	200	80	11	2	115. Atrazine	14.064	200	200	14	7
33. 4-Methylphenol (p-cresol)	6.885	200	107	11	2	116. 4-Aminobiphenyl	14.17	200	169	14	7
34. Indene	6.885	200	117	11	2	117. Pentachlorophenol	14.17	200	266	14	7
35. o-Toluidine	6.885	200	106	11	2	118. Pentachloronitrobenzene (Quintozene)	14.213	200	237	14	7
36. Hexachloroethane	6.989	200	119	11	2	119. Propyzamide	14.377	200	173	14	7
37. Nitrobenzene-d5	7.068	200	82	11	2	120. Phenanthrene-d10	14.477	200	188	14	7
38. Nitrobenzene	7.1	200	123	11	2	121. n-Octadecane (C18)	14.52	200	57	14	7
39. N-Nitrosopiperidine	7.347	200	114	17	3	122. Phenanthrene	14.52	200	178	14	7
40. Isophorone	7.531	200	82	17	3	123. Dinoseb	14.616	200	211	14	7
41. 2-Nitrophenol	7.671	200	139	17	3	124. Disulfoton	14.616	200	88	14	7
42. 2,4-Dimethylphenol	7.811	200	122	17	3	125. Anthracene	14.616	200	179	14	7
43. Benzoic acid	7.898	200	105	17	3	126. Carbazole	14.961	200	167	30	8
44. O,O,O-Triethyl phosphorothioate	7.942	200	121	17	3	127. Methyl parathion	15.296	200	109	30	8
45. Bis(2-chloroethoxy)methane	7.969	200	93	17	3	128. Di-n-butyl phthalate	15.779	200	149	30	8
46. 2,4-Dichlorophenol	8.113	200	162	17	3	129. 4-Nitroquinoline-N-oxide	16.026	200	190	30	8
47. α,α-Dimethylphenethylamine (phentermine)	8.178	200	58	17	3	130. Parathion (ethyl parathion)	16.075	200	291	30	8
48. 1,2,4-Trichlorobenzene	8.264	200	180	17	3	131. Methapyrilene hydrochloride	16.273	200	58	30	8
49. Naphthalene-d8	8.34	200	136	17	3	132. Isodrin	16.52	200	193	30	8
50. Naphthalene	8.378	200	128	17	3	133. Fluoranthene	16.806	200	202	30	8
51. α-Terpineol	8.453	200	59	17	3	134. Benzidine	17.124	200	184	30	8
52. 4-Chloroaniline	8.518	200	127	17	3	135. Pyrene	17.223	200	203	30	8
53. 2,6-Dichlorophenol	8.518	200	164	17	3	136. p-Terphenyl-d14	17.627	200	244	27	9
54. Hexachloropropene	8.572	200	213	17	3	137. Aramite isomer 2	17.627	200	175	27	9
55. Hexachlorobutadiene	8.674	200	225	17	3	138. Aramite isomer 1	17.818	200	135	27	9
56. Quinoline	8.993	200	129	15	4	139. p-Dimethylaminoazobenzene	17.905	200	120	27	9
57. ε-Caprolactam	9.085	200	55	15	4	140. Chlorobenzilate	18.041	200	251	27	9
58. 1,4-Phenylenediamine	9.160	200	108	15	4	141. Famphur	18.487	200	218	27	9
59. N-Nitrosodibutylamine	9.195	200	84	15	4	142. 3,3'-Dimethylbenzidine (o-tolidine)	18.553	200	254	15	9
60. 4-Chloro-3-methylphenol	9.477	200	107	15	4	143. Kepone	18.553	200	272	27	9
61. Isosafrole isomer 2	9.563	200	181	15	4	144. Benzyl butyl phthalate	18.64	200	149	27	9
62. 2-Methylnaphthalene	9.681	200	142	15	4	145. Bis(2-ethylhexyl)adipate	18.89	200	129	27	9
63. 1-Methylnaphthalene	9.858	200	141	15	4	146. 2-Acetylaminofluorene	19.015	200	181	27	9
64. 1,2,4,5-Tetrachlorobenzene	10.024	200	216	15	4	147. 4,4'-Methylene-bis(2-chloroaniline)	19.561	200	231	15	9
65. Hexachlorocyclopentadiene	10.024	200	237	15	4	148. 3,3'-Dichlorobenzidine	19.561	200	212	27	9
66. 2,3-Dichloroaniline	10.221	200	161	15	4	149. Benz[a]anthracene	19.561	200	228	15	10
67. Isosafrole isomer 1	10.221	200	104	15	4	150. Chrysene-d12	19.561	200	240	15	10
68. 2,4,6-Trichlorophenol	10.25	200	196	15	4	151. Chrysene	19.61	200	226	15	10
69. 2,4,5-Trichlorophenol	10.303	200	198	15	4	152. Bis(2-ethylhexyl)phthalate	19.824	200	167	15	10
70. 2-Fluorobiphenyl	10.41	200	172	15	4	153. 6-Methylchrysene	20.473	200	242	15	10
71. Safrole	10.549	200	131	15	4	154. Di-n-octyl phthalate	21.031	200	149	15	10
72. Biphenyl	10.586	200	154	15	4	155. Benzo[b]fluoranthene	21.589	200	57	15	10
73. 2-Chloronaphthalene	10.586	200	162	15	4	156. 7,12-Dimethylbenz[a]anthracene	21.589	200	256	15	10
74. 1-Chloronaphthalene	10.624	200	127	15	4	157. Benzo[k]fluoranthene	21.637	200	252	15	10
75. 2-Nitroaniline	10.803	200	138	13	5	158. Benzo[a]pyrene	22.249	200	253	15	10
76. Diphenyl ether	10.803	200	170	15	5	159. Perylene-d12	22.377	200	264	15	10
77. 1,4-Naphthoquinone	10.927	200	158	13	5	160. 3-Methylcholanthrene	23.08	200	268	15	10
78. 1,4-Dinitrobenzene	11.073	200	168	13	5	161. Dibenz(a,h)acridine	24.357	200	279	15	10
79. Dimethylphthalate	11.223	200	163	13	5	162. Dibenz[a,j]acridine	24.48	200	280	15	10
80. 1,3-Dinitrobenzene	11.301	200	76	13	5	163. Indeno[1,2,3-cd]pyrene	24.882	200	277	15	10
81. 2,6-Dinitrotoluene	11.301	200	165	13	5	164. Dibenz[a,h]anthracene	24.968	200	278	15	10
82. 1,2-Dinitrobenzene	11.363	200	50	13	5	165. Benzo[g,h,i]perylene	25.537	200	276	15	10
83. Acenaphthylene	11.363	200	152	13	5						