

25 µg/L 8260 MegaMix® Revised on Rtx®-VMS

Peaks

1. Diethyl ether
2. 1,1-Dichloroethene
3. Trichlorotrifluoroethane
4. Carbon disulfide
5. Iodomethane
6. Allyl chloride
7. Methylene chloride
8. *trans*-1,2-Dichloroethene
9. Acetonitrile
10. Chloroprene
11. 1,1-Dichloroethane
12. Acrylonitrile
13. *cis*-1,2-Dichloroethene
14. 2,2-Dichloropropane
15. Bromochloromethane
16. Chloroform
17. Carbon tetrachloride
18. Methyl acrylate
19. Tetrahydrofuran
20. Dibromofluoromethane (SS)

Peaks

21. 1,1,1-Trichloroethane
22. 1,1-Dichloropropene
23. Benzene
24. Propionitrile
25. Methacrylonitrile
26. Pentafluorobenzene (IS)
27. 1,2-Dichloroethane
28. Isobutyl alcohol*
29. Trichloroethene
30. 1,4-Difluorobenzene (IS)
31. Dibromomethane
32. 1,2-Dichloropropane
33. Bromodichloromethane
34. Methyl methacrylate
35. 1,4-Dioxane*
36. 2-Chloropropanol*
37. *cis*-1,3-Dichloropropene
38. Toluene-d8 (SS)
39. Toluene
40. 2-Nitropropane

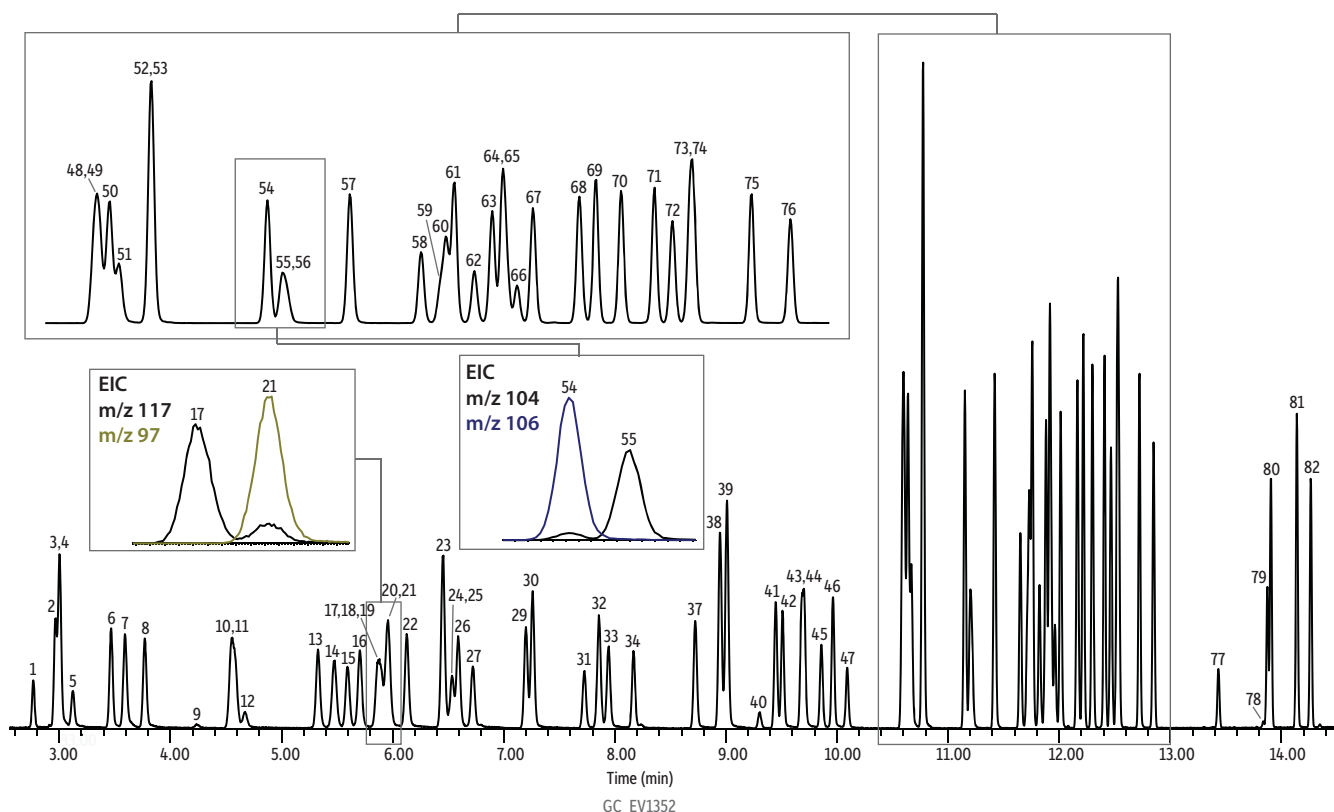
Peaks

41. Tetrachloroethene
42. *trans*-1,3-Dichloropropene
43. 1,1,2-Trichloroethane
44. Ethyl methacrylate
45. Dibromochloromethane
46. 1,3-Dichloropropane
47. 1,2-Dibromoethane
48. Chlorobenzene-d5 (IS)
49. Chlorobenzene
50. Ethylbenzene
51. 1,1,1,2-Tetrachloroethane
52. *m*-Xylene
53. *p*-Xylene
54. *o*-Xylene
55. Styrene
56. Bromoform
57. Isopropylbenzene
58. 1-Bromo-4-fluorobenzene (BFB) (IS)
59. *cis*-1,4-Dichloro-2-butene
60. *n*-Propylbenzene

Peaks

61. Bromobenzene
62. 1,1,2,2-Tetrachloroethane
63. 2-Chlorotoluene
64. 1,3,5-Trimethylbenzene
65. 1,2,3-Trichloropropane
66. *trans*-1,4-Dichloro-2-butene
67. 4-Chlorotoluene
68. *tert*-Butylbenzene
69. 1,2,4-Trimethylbenzene
70. *sec*-Butylbenzene
71. *p*-Isopropyltoluene
72. 1,3-Dichlorobenzene
73. 1,4-Dichlorobenzene-d4 (IS)
74. 1,4-Dichlorobenzene
75. *n*-Butylbenzene
76. 1,2-Dichlorobenzene
77. 1,2-Dibromo-3-Chloropropane
78. Nitrobenzene
79. Hexachlorobutadiene
80. 1,2,4-Trichlorobenzene
81. Naphthalene
82. 1,2,3-Trichlorobenzene

*Note: these compounds were not detected at 25 ppb when the sample was analyzed via unheated purge.



Column Rtx®-VMS, 30 m, 0.25 mm ID, 1.40 µm (cat.# 19915)
Sample 8260B MegaMix® calibration mix, revised (cat.# 30152)
 8260 Internal standard mix (cat.# 30074)
 8260 Surrogate mix (cat.# 30073)
Diluent: Reverse-osmosis water
Conc.: 25 µg/L (5 mL sample)
Injection purge and trap split
Liner: 1 mm Split (cat.# 23333.1)
Purge and Trap
Instrument: EST Encon
Trap Type: Vocarb 3000
Purge: 11 min, flow 40 mL/min
Dry Purge: 3 min, flow 40 mL/min
Desorb Preheat
Temp.: 255 °C
Desorb: 1.0 min @ 260 °C, flow 30.9 mL/min
Bake: 6 min @ 260 °C
Interface
Connection: injection port
Transfer Line
Temp.: 150 °C
Oven
Oven Temp.: 45 °C (hold 4.5 min) to 100 °C at 12 °C/min to 240 °C at 25 °C/min (hold 1.32 min)
Carrier Gas
Flow Rate: He, constant flow
 0.9 mL/min

Detector MS
Mode: Scan
Scan Program:

Group	Start Time (min)	Scan Range (amu)	Scan Rate (scans/sec)
1	1.7	47-300	5.4
2	2.9	35-300	5.2

Transfer Line
Temp.: 230 °C
Analyzer Type: Quadrupole
Source Type: Inert
Drawout Plate: 6 mm ID
Source Temp.: 230 °C
Quad Temp.: 150 °C
Electron Energy: 70 eV
Solvent Delay
Time: 1.5 min
Instrument
 Agilent 7890A GC & 5975C MSD

Notes

Some purge-and-trap instruments show increased activity of dehydrohalogenate pentachloroethane during analysis, forming tetrachloroethene (also known as perchloroethylene, PCE). Symptoms of this problem are poor matching of PCE levels between sources or a PCE single analyte test. This revised 8260 MegaMix® standard is identical to the original, minus pentachloroethane, and was made for testing that does not require reporting of pentachloroethane.