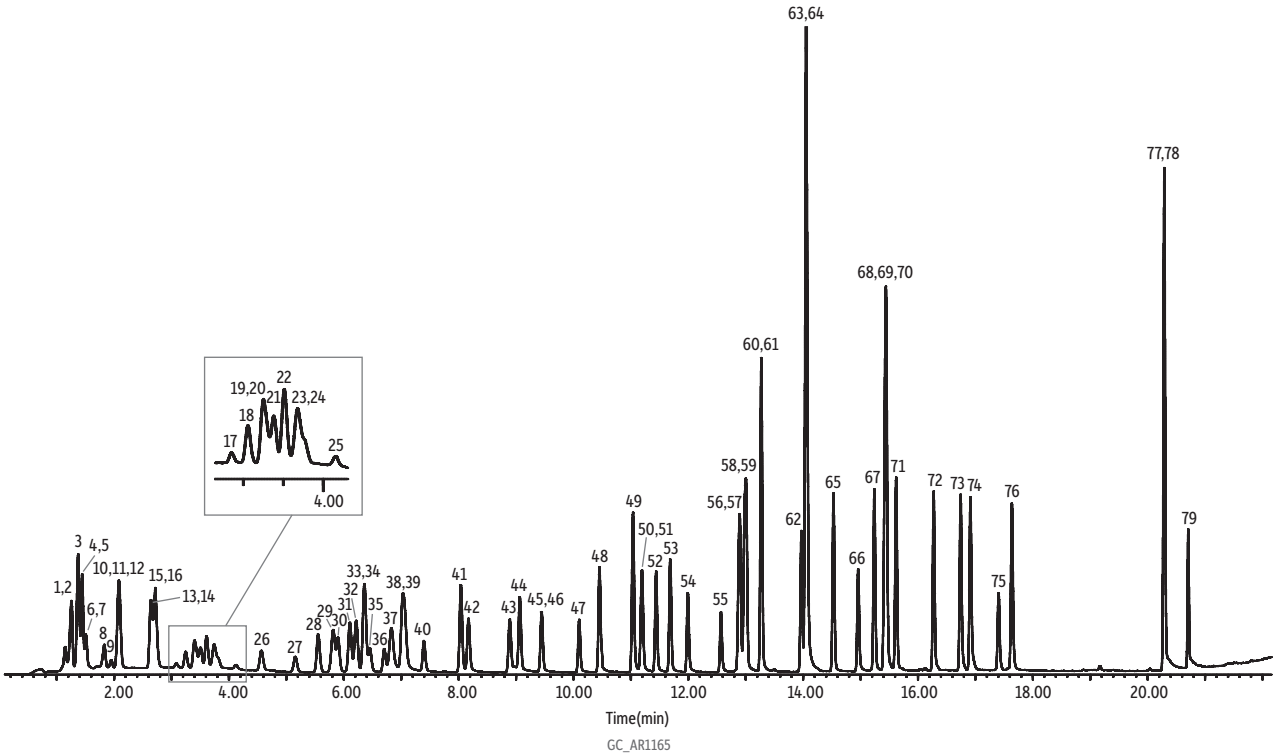
NJ Low Level TO-15 75 Component Mix on Rtx-VMS (30 m, 2.0 mL/min)



	Peaks	tR (min)
1.	Propylene	1.21
2.	Dichlorodifluoromethane (Freon 12)	1.25
3.	1,2-Dichlorotetrafluoroethane (Freon 114)	1.37
4.	Chloromethane	1.43
5.	*n*-Butane	1.45
6.	Vinyl chloride	1.49
7.	1,3-Butadiene	1.51
8.	Bromomethane	1.82
9.	Chloroethane	1.94
10.	Vinyl bromide	2.06
11.	*n*-Pentane	2.08
12.	Trichlorofluoromethane (Freon 11)	2.09
13.	Carbon disulfide	2.64
14.	1,1-Dichloroethene	2.64
15.	1,1,2-Trichlorotrifluoroethane (Freon 113)	2.68
16.	Ethanol	2.68
17.	Acrolein	3.09
18.	Allyl chloride	3.25
19.	Methylene chloride	3.40
20.	Isopropyl alcohol	3.45
21.	Acetone	3.51
22.	*trans*-1,2-Dichloroethene	3.62
23.	Hexane	3.75
24.	Methyl *tert*-butyl ether (MTBE)	3.82
25.	Tertiary butanol	4.13
26.	1,1-Dichloroethane	4.58
27.	Vinyl acetate	5.16
28.	*cis*-1,2-Dichloroethene	5.56
29.	Cyclohexane	5.83
30.	Bromochloromethane (IS)	5.90
31.	Chloroform	6.12
32.	Carbon tetrachloride	6.22
33.	Tetrahydrofuran	6.36
34.	1,1,1-Trichloroethane	6.37
35.	Ethyl acetate	6.46
36.	2-Butanone (MEK)	6.70
37.	2,2,4-Trimethylpentane	6.84
38.	Benzene	7.03
39.	Heptane	7.07

	Peaks	tR (min)
40.	1,2-Dichloroethane	7.40
41.	Trichloroethylene	8.05
42.	1,4-Difluorobenzene (IS)	8.18
43.	1,2-Dichloropropane	8.90
44.	Bromodichloromethane	9.07
45.	1,4-Dioxane	9.44
46.	Methyl methacrylate	9.45
47.	*cis*-1,3-Dichloropropene	10.11
48.	Toluene	10.46
49.	Tetrachloroethene	11.05
50.	4-Methyl-2-pentanone (MIBK)	11.19
51.	*trans*-1,3-Dichloropropene	11.21
52.	1,1,2-Trichloroethane	11.45
53.	Dibromochloromethane	11.70
54.	1,2-Dibromoethane	12.01
55.	2-Hexanone (MBK)	12.58
56.	Chlorobenzene-d5 (IS)	12.89
57.	Chlorobenzene	12.91
58.	*n*-Nonane	12.99
59.	Ethylbenzene	13.02
60.	*m*-Xylene	13.27
61.	*p*-Xylene	13.27
62.	*o*-Xylene	13.97
63.	Bromoform	14.05
64.	Styrene	14.07
65.	Cumene	14.53
66.	4-Bromofluorobenzene*	14.96
67.	*n*-Propylbenzene	15.24
68.	1,1,2,2-Tetrachloroethane	15.42
69.	2-Chlorotoluene	15.44
70.	4-Ethyltoluene	15.45
71.	1,3,5-Trimethylbenzene	15.62
72.	1,2,4-Trimethylbenzene	16.28
73.	1,3-Dichlorobenzene	16.74
74.	1,4-Dichlorobenzene	16.92
75.	Benzyl chloride	17.41
76.	1,2-Dichlorobenzene	17.64
77.	1,2,4-Trichlorobenzene	20.28
78.	Hexachlorobutadiene	20.29
79.	Naphthalene	20.72

*Tuning standard

Column	Rtx-VMS, 30 m, 0.25 mm ID, 1.40 µm (cat.# 19915) with MXT low-dead-volume connector kit (cat.# 20536)
Sample	TO-14A internal standard/tuning mix (cat.# 34408) 75 comp TO15 + NJ mix (cat.# 34396)
Diluent:	Nitrogen
Conc.:	10.0 ppbv 250 mL injection
Injection	on-column
Oven	
Oven Temp.:	32 °C (hold 5 min) to 150 °C at 8 °C/min to 230 °C at 33 °C/min
Carrier Gas	He, constant flow
Flow Rate:	2.0 mL/min
Linear Velocity:	51.15 cm/sec @ 35 °C
Detector	MS
Mode:	Scan

Scan Program:

Group	Start Time (min)	Scan Range (amu)	Scan Rate (scans/sec)
1	0.00	35.0 - 226.00	3.8

Transfer Line Temp.:	250 °C
Analyzer Type:	Quadrupole
Source Type:	Extractor
Extractor Lens:	6 mm ID
Source Temp.:	230 °C
Quad Temp.:	150 °C
Electron Energy:	70.0 eV
Tune Type:	BFB
Ionization Mode:	EI
Preconcentrator	Markes CIA Advantage
Instrument	Agilent 7890B GC & 5977A MSD

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