

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070125\
 Data File : VY022899.D
 Acq On : 01 Jul 2025 15:06
 Operator : SY/MD
 Sample : Q2458-05
 Misc : 6.39g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-66

Quant Time: Jul 02 02:47:43 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

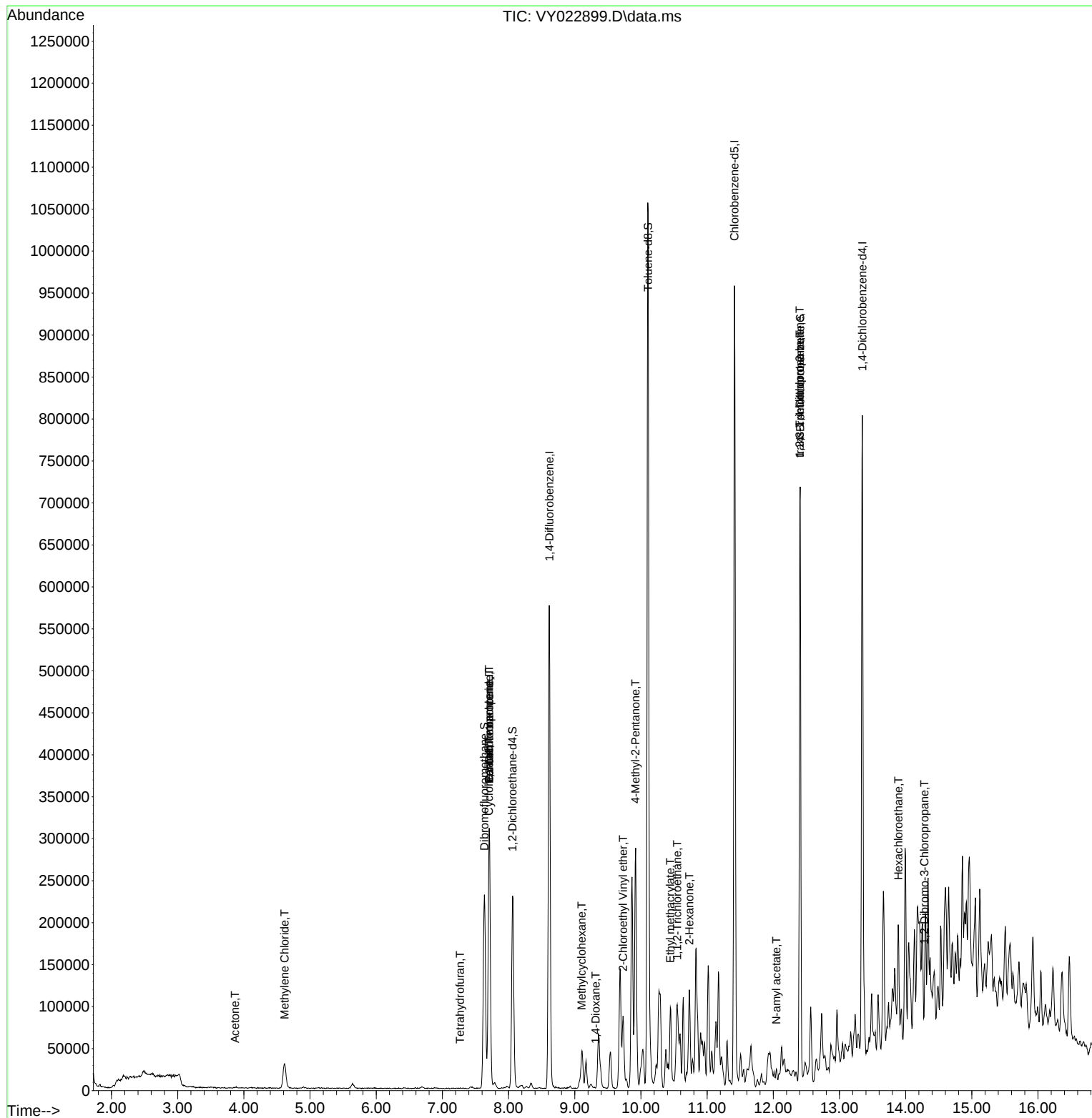
Internal Standards						
1) Pentafluorobenzene	7.707	168	227063	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	478916	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	482244	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	188370	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	180787	71.337	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 142.680%	
35) Dibromofluoromethane	7.634	113	167403	57.477	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 114.960%	
50) Toluene-d8	10.109	98	596552	51.617	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 103.240%	
62) 4-Bromofluorobenzene	12.407	95	205251	55.244	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 110.480%	
Target Compounds						
					Qvalue	
16) Acetone	3.866	43	1003	2.094	ug/l #	85
20) Methylene Chloride	4.616	84	22164	7.327	ug/l	96
29) Tetrahydrofuran	7.268	42	464	1.054	ug/l #	44
31) Cyclohexane	7.701	56	8102	1.861	ug/l #	41
36) 1,1-Dichloropropene	7.707	75	20315	4.602	ug/l #	52
38) Carbon Tetrachloride	7.707	117	23613	5.069	ug/l #	16
39) Methylcyclohexane	9.103	83	14897	2.608	ug/l	98
49) 1,4-Dioxane	9.316	88	35	1.643	ug/l #	24
51) 4-Methyl-2-Pentanone	9.920	43	153264	76.174	ug/l #	39
55) 1,1,2-Trichloroethane	10.548	97	31120	13.327	ug/l #	22
56) Ethyl methacrylate	10.444	69	8731	2.779	ug/l #	1
58) 2-Chloroethyl Vinyl ether	9.731	63	322	15.838	ug/l #	48
59) 2-Hexanone	10.731	43	44148	32.273	ug/l #	32
74) N-amyl acetate	12.048	43	4029	1.288	ug/l #	71
76) 1,2,3-Trichloropropane	12.401	75	116635	60.650	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.401	75	116635	153.224	ug/l #	11
90) Hexachloroethane	13.889	117	4546	1.838	ug/l #	17
92) 1,2-Dibromo-3-Chloropr...	14.285	75	528	1.387	ug/l #	18

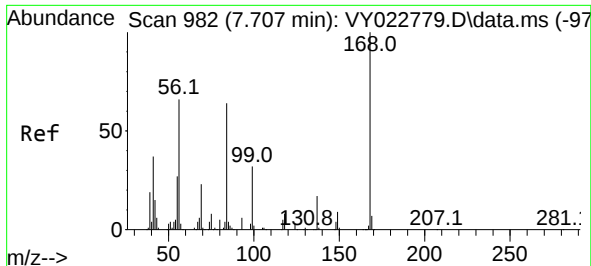
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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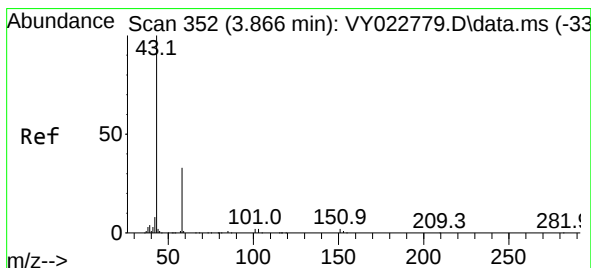
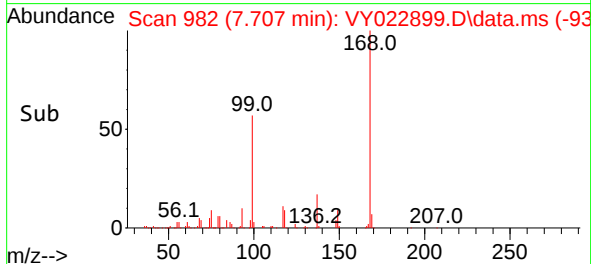
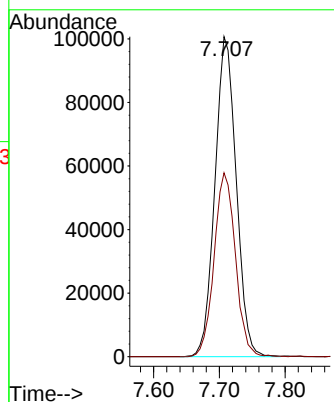
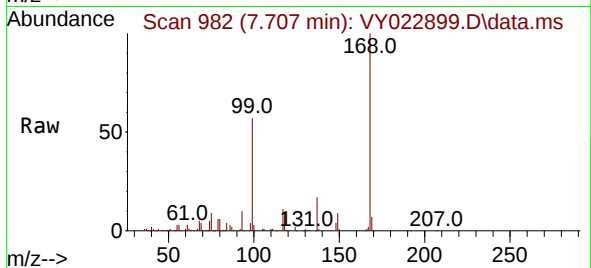




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 982
Delta R.T. -0.006 min
Lab File: VY022899.D
Acq: 01 Jul 2025 15:06

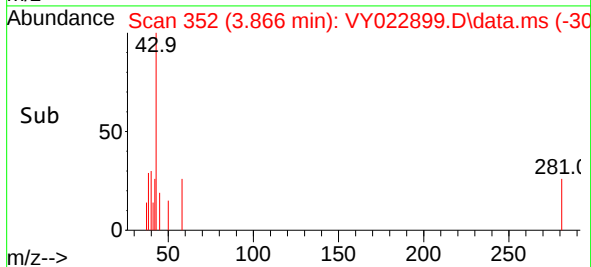
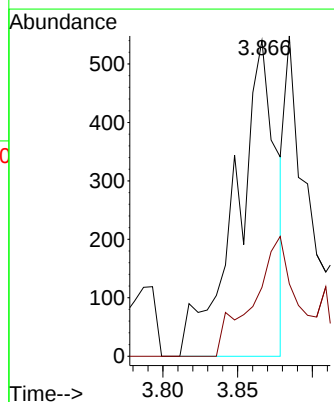
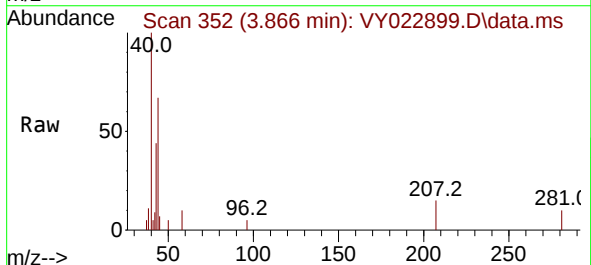
Instrument :
MSVOA_Y
ClientSampleId :
TP-66

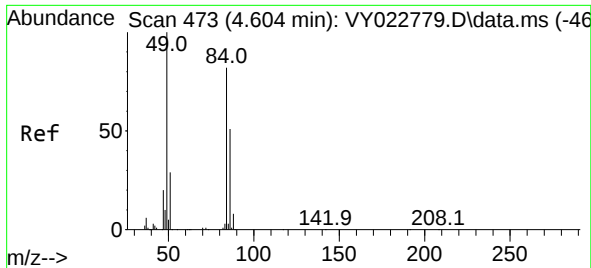
Tgt Ion:168 Resp: 227063
Ion Ratio Lower Upper
168 100
99 57.5 44.3 66.5



#16
Acetone
Concen: 2.094 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.013 min
Lab File: VY022899.D
Acq: 01 Jul 2025 15:06

Tgt Ion: 43 Resp: 1003
Ion Ratio Lower Upper
43 100
58 21.9 24.0 36.0#

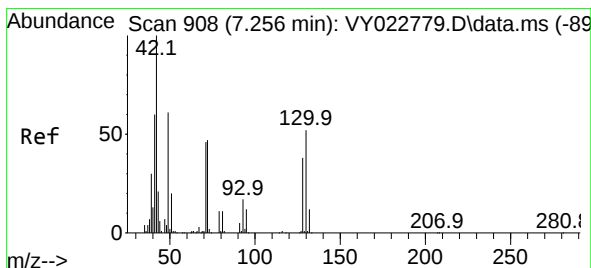
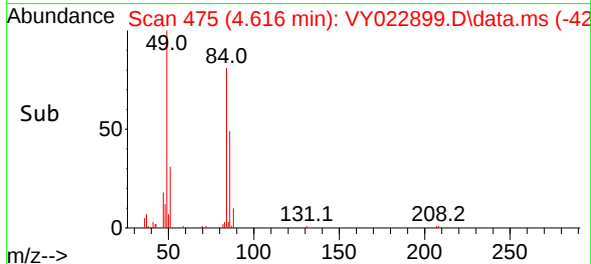
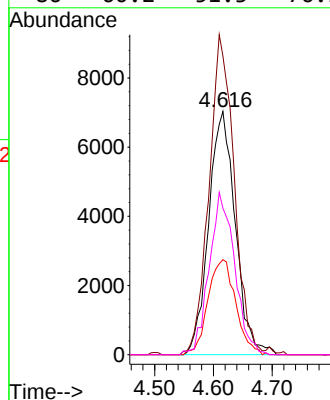
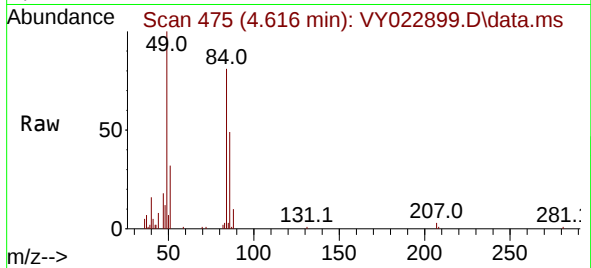




#20
Methylene Chloride
Concen: 7.327 ug/l
RT: 4.616 min Scan# 41
Delta R.T. -0.006 min
Lab File: VY022899.D
Acq: 01 Jul 2025 15:06

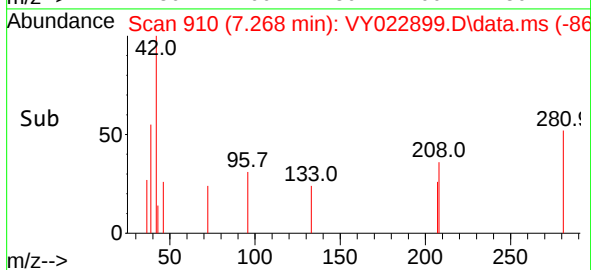
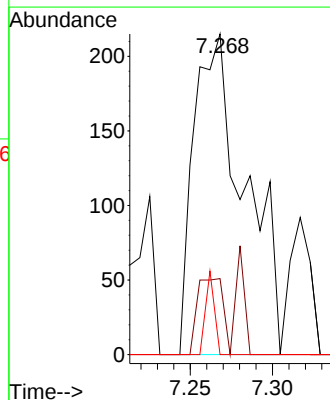
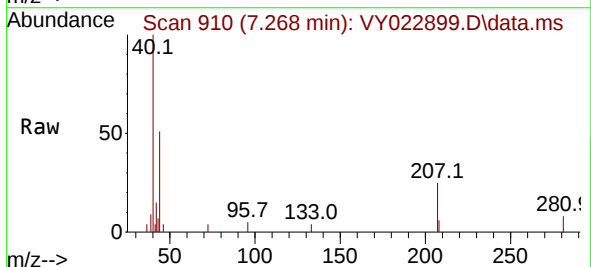
Instrument :
MSVOA_Y
ClientSampleId :
TP-66

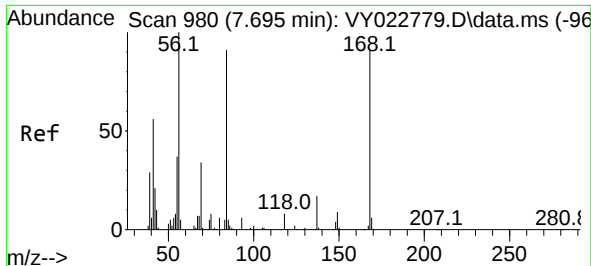
Tgt Ion: 84	Resp: 22164
Ion Ratio	Lower Upper
84 100	
49 122.7	101.9 152.9
51 39.1	29.8 44.8
86 60.2	51.3 76.9



#29
Tetrahydrofuran
Concen: 1.054 ug/l
RT: 7.268 min Scan# 910
Delta R.T. -0.000 min
Lab File: VY022899.D
Acq: 01 Jul 2025 15:06

Tgt Ion: 42	Resp: 464
Ion Ratio	Lower Upper
42 100	
72 11.9	37.4 56.2#
71 4.3	34.2 51.2#

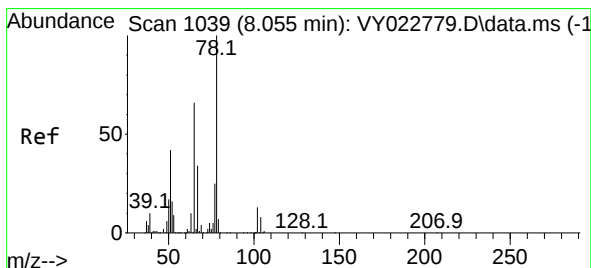
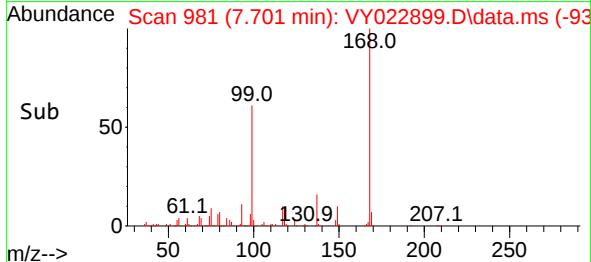
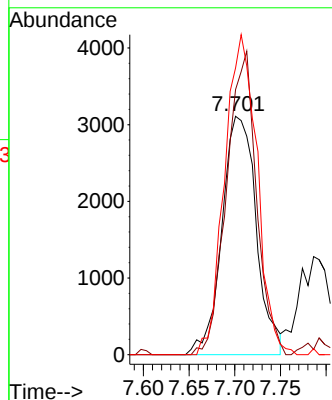
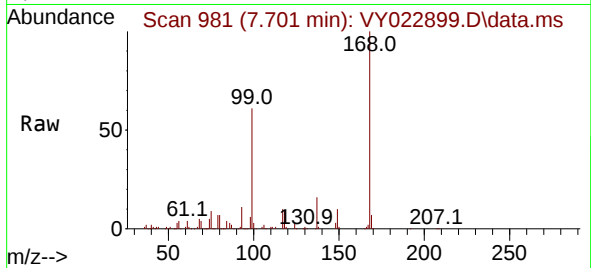




#31
Cyclohexane
Concen: 1.861 ug/l
RT: 7.701 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY022899.D
Acq: 01 Jul 2025 15:06

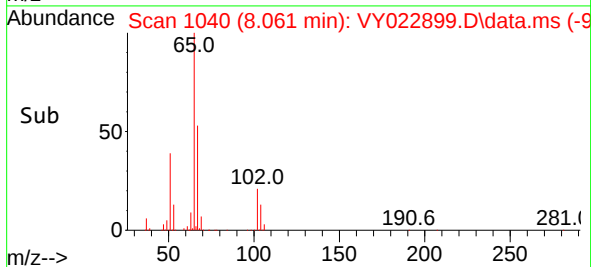
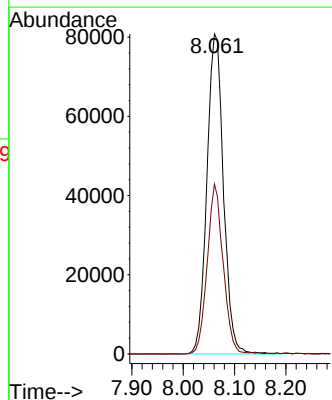
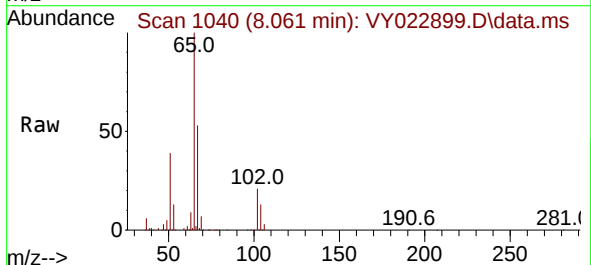
Instrument :
MSVOA_Y
ClientSampleId :
TP-66

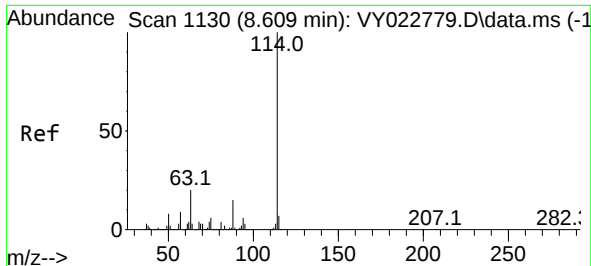
Tgt Ion: 56 Resp: 8102
Ion Ratio Lower Upper
56 100
69 111.3 27.0 40.6#
84 120.3 72.6 109.0#



#33
1,2-Dichloroethane-d4
Concen: 71.337 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY022899.D
Acq: 01 Jul 2025 15:06

Tgt Ion: 65 Resp: 180787
Ion Ratio Lower Upper
65 100
67 51.1 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.615 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY022899.D

Acq: 01 Jul 2025 15:06

Instrument :

MSVOA_Y

ClientSampleId :

TP-66

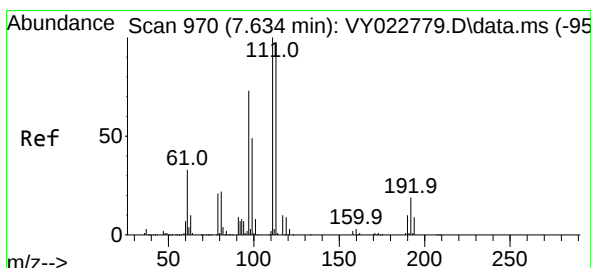
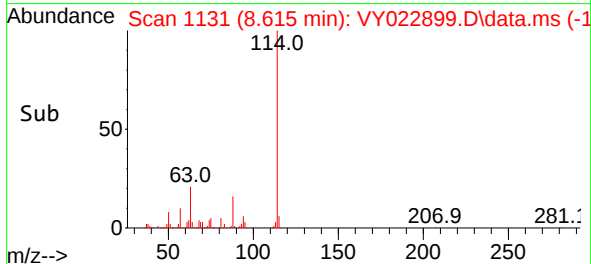
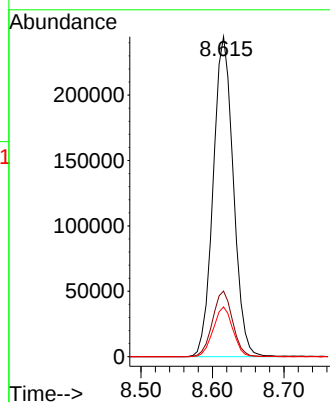
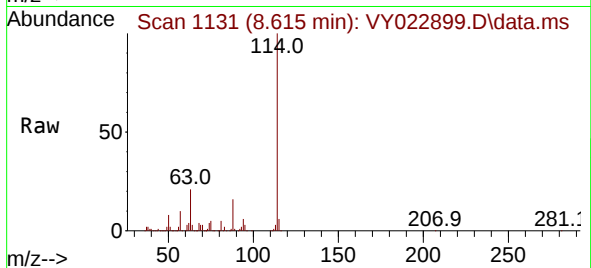
Tgt Ion:114 Resp: 478916

Ion Ratio Lower Upper

114 100

63 20.5 0.0 40.8

88 15.5 0.0 27.8



#35

Dibromofluoromethane

Concen: 57.477 ug/l

RT: 7.634 min Scan# 970

Delta R.T. -0.006 min

Lab File: VY022899.D

Acq: 01 Jul 2025 15:06

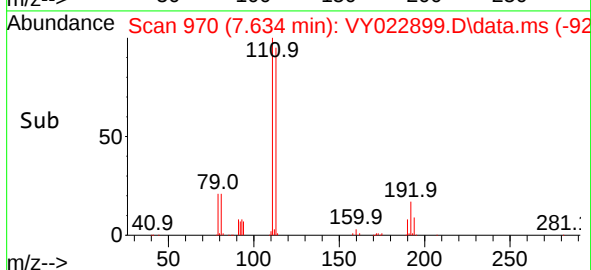
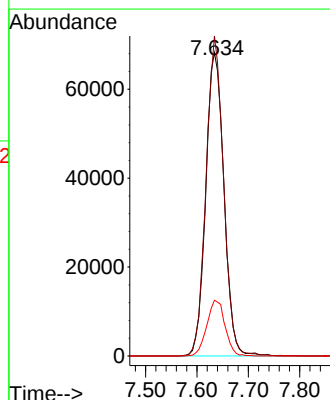
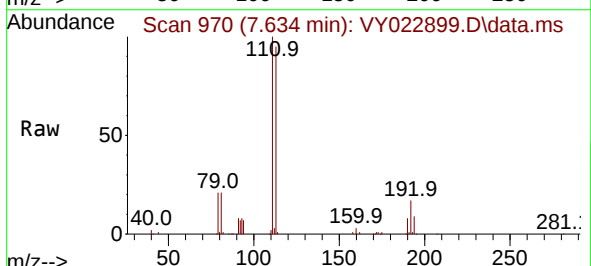
Tgt Ion:113 Resp: 167403

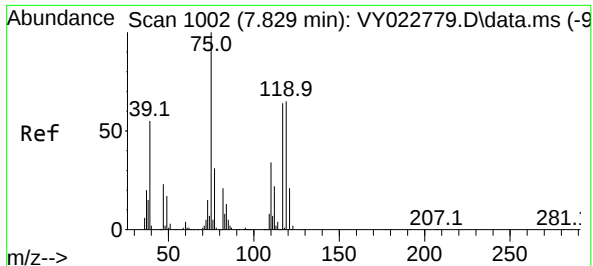
Ion Ratio Lower Upper

113 100

111 102.0 81.1 121.7

192 18.5 14.2 21.2





#36

1,1-Dichloropropene

Concen: 4.602 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.134 min

Lab File: VY022899.D

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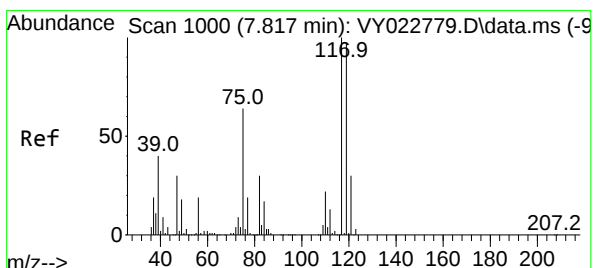
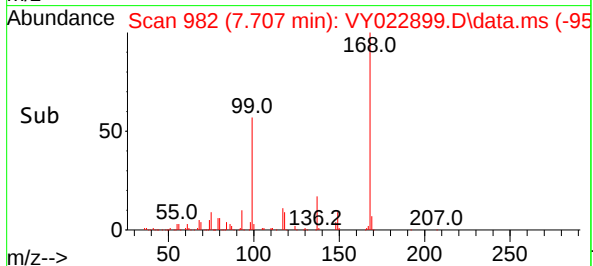
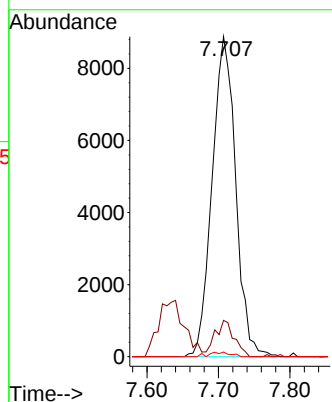
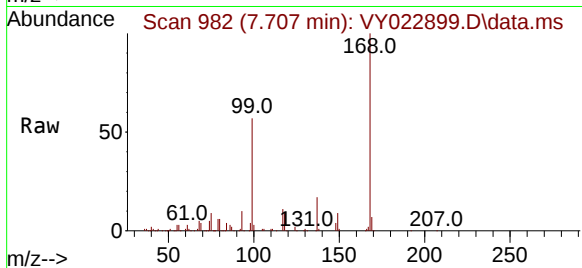
Tgt Ion: 75 Resp: 20315

Ion Ratio Lower Upper

75 100

110 9.3 16.9 50.7#

77 1.3 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 5.069 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.116 min

Lab File: VY022899.D

Acq: 01 Jul 2025 15:06

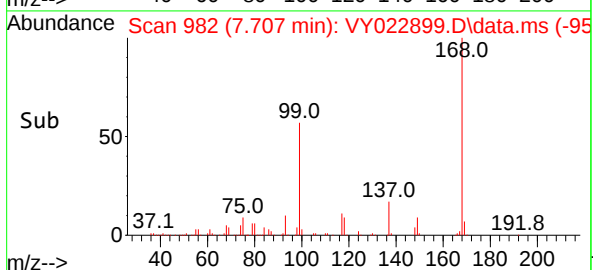
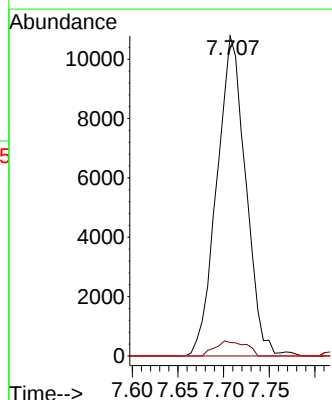
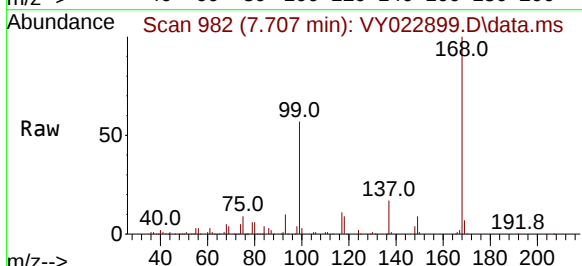
Tgt Ion: 117 Resp: 23613

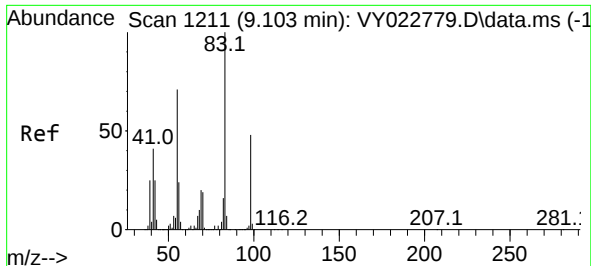
Ion Ratio Lower Upper

117 100

119 4.2 75.0 112.6#

121 0.0 25.0 37.4#





#39

Methylcyclohexane

Concen: 2.608 ug/l

RT: 9.103 min Scan# 11

Delta R.T. -0.013 min

Lab File: VY022899.D

Acq: 01 Jul 2025 15:06

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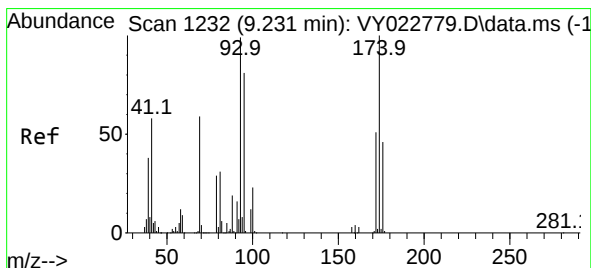
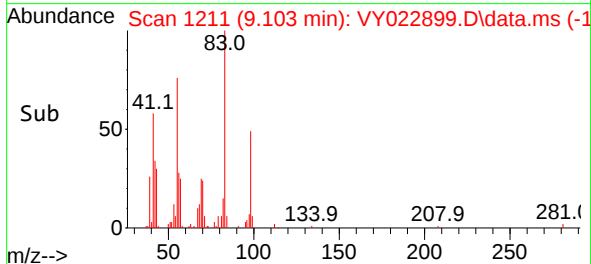
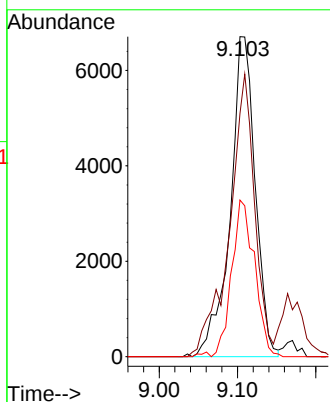
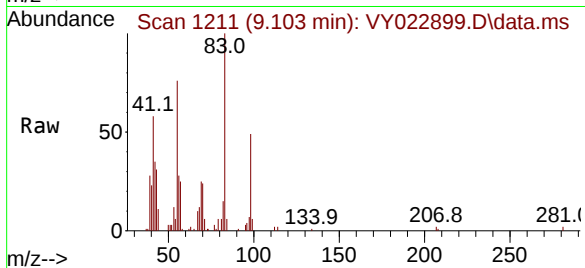
Tgt Ion: 83 Resp: 14897

Ion Ratio Lower Upper

83 100

55 76.0 58.1 87.1

98 49.0 39.0 58.6



#49

1,4-Dioxane

Concen: 1.643 ug/l

RT: 9.316 min Scan# 1246

Delta R.T. 0.073 min

Lab File: VY022899.D

Acq: 01 Jul 2025 15:06

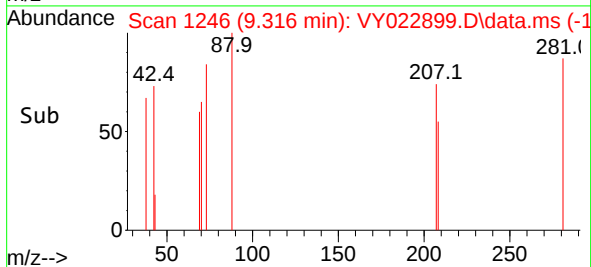
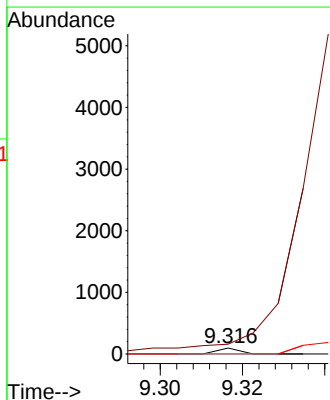
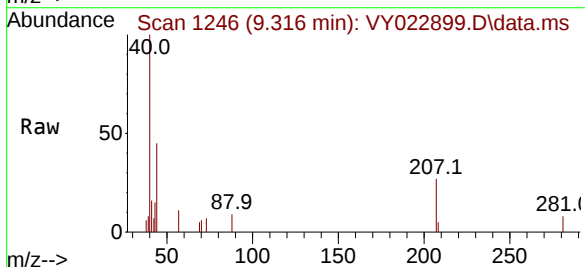
Tgt Ion: 88 Resp: 35

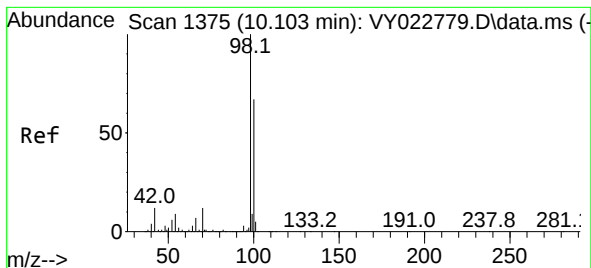
Ion Ratio Lower Upper

88 100

43 0.0 25.4 38.2#

58 0.0 54.9 82.3#





#50

Toluene-d8

Concen: 51.617 ug/l

RT: 10.109 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY022899.D

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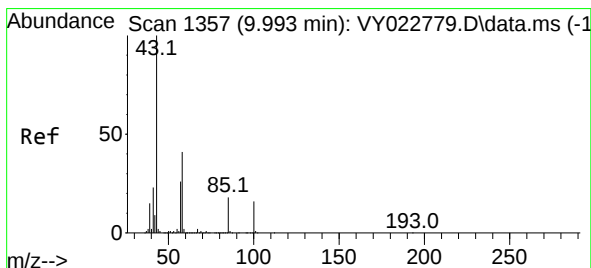
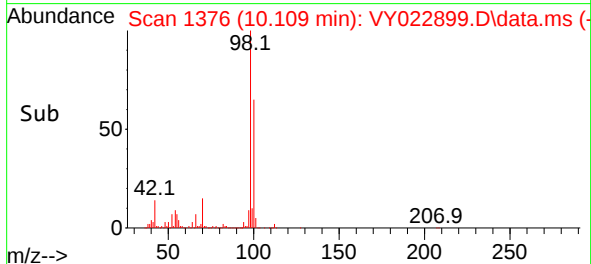
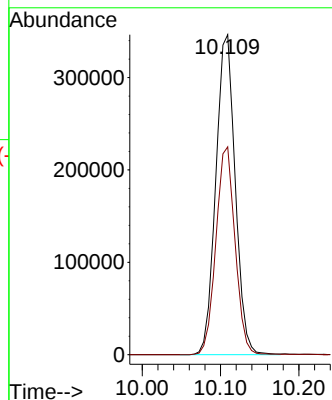
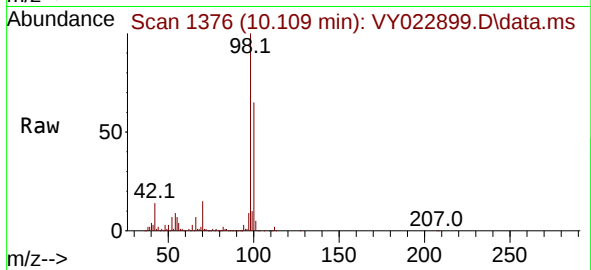
TP-66

Tgt Ion: 98 Resp: 596552

Ion Ratio Lower Upper

98 100

100 64.1 51.4 77.0



#51

4-Methyl-2-Pentanone

Concen: 76.174 ug/l

RT: 9.920 min Scan# 1345

Delta R.T. -0.080 min

Lab File: VY022899.D

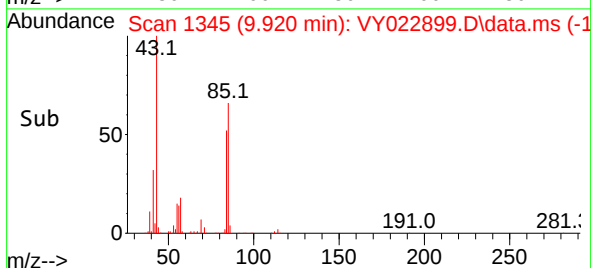
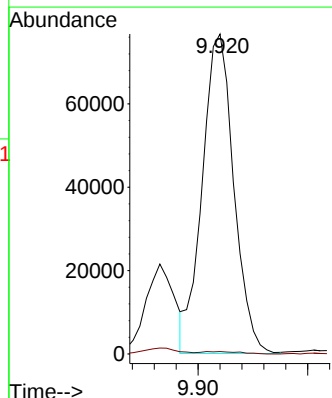
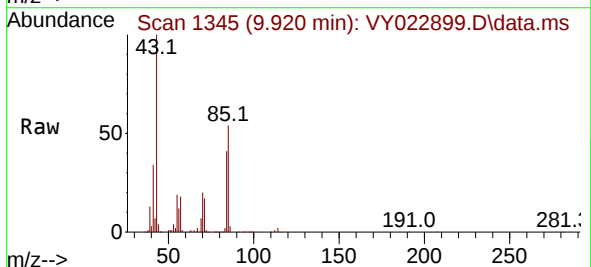
Acq: 01 Jul 2025 15:06

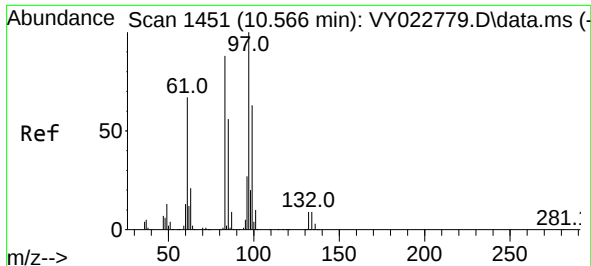
Tgt Ion: 43 Resp: 153264

Ion Ratio Lower Upper

43 100

58 0.9 30.4 45.6#

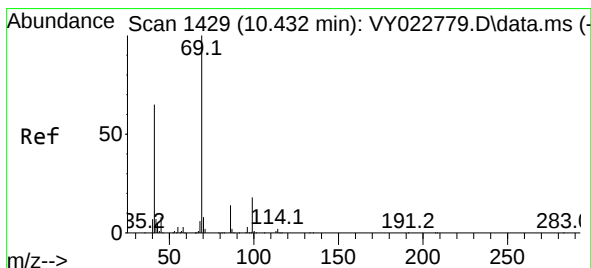
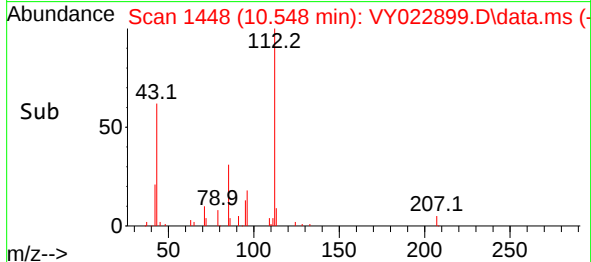
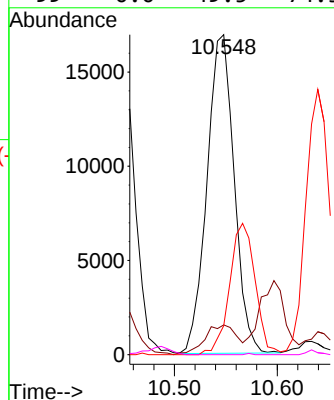
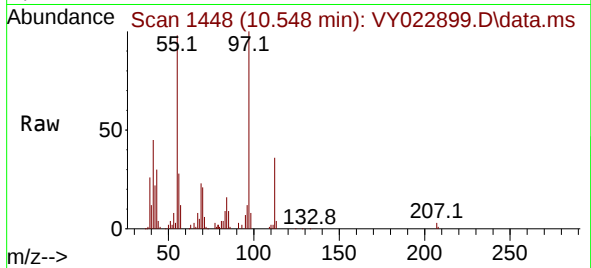




#55
1,1,2-Trichloroethane
Concen: 13.327 ug/l
RT: 10.548 min Scan# 1451
Delta R.T. -0.025 min
Lab File: VY022899.D
Acq: 01 Jul 2025 15:06

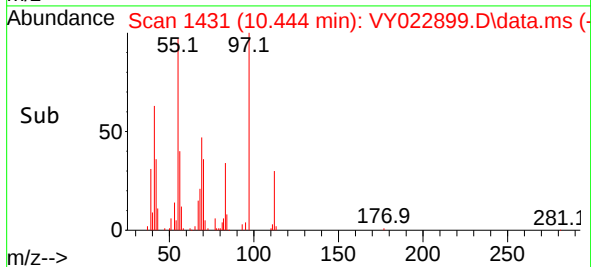
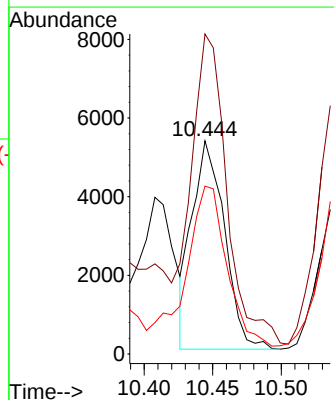
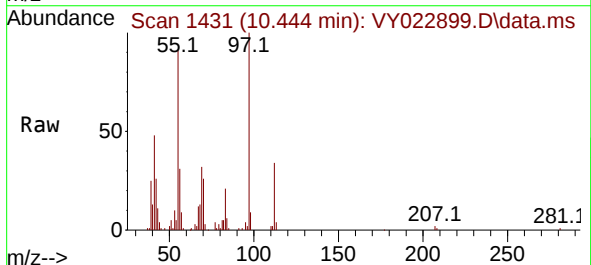
Instrument :
MSVOA_Y
ClientSampleId :
TP-66

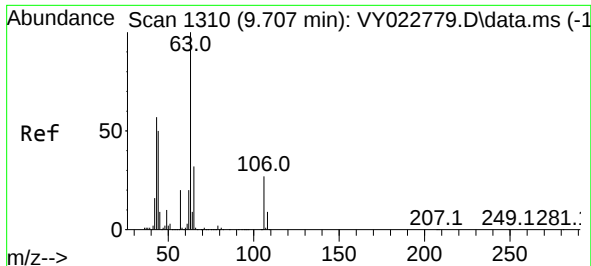
Tgt Ion: 97 Resp: 31120
Ion Ratio Lower Upper
97 100
83 8.8 68.1 102.1#
85 9.1 48.2 72.2#
99 0.0 49.5 74.3#



#56
Ethyl methacrylate
Concen: 2.779 ug/l
RT: 10.444 min Scan# 1431
Delta R.T. -0.000 min
Lab File: VY022899.D
Acq: 01 Jul 2025 15:06

Tgt Ion: 69 Resp: 8731
Ion Ratio Lower Upper
69 100
41 164.0 52.2 78.2#
39 95.8 36.7 55.1#

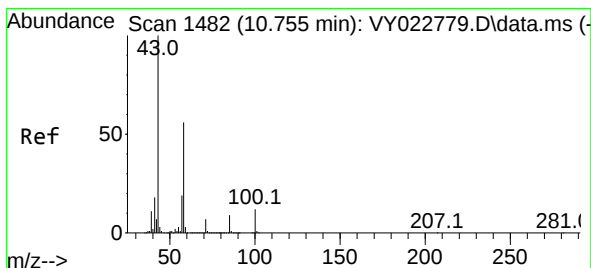
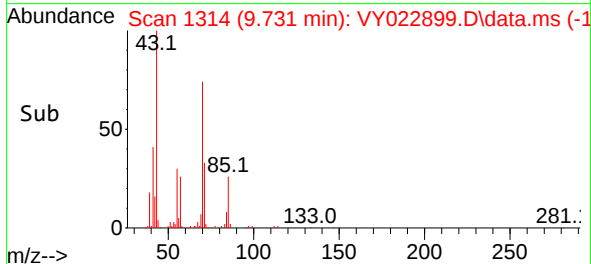
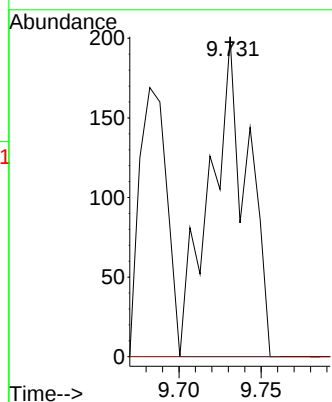
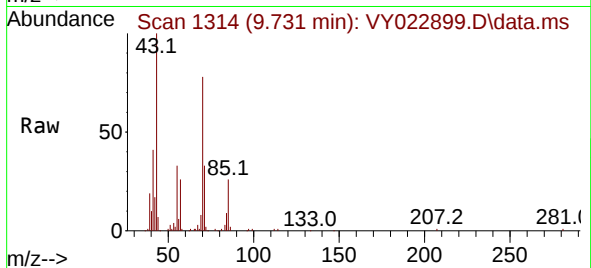




#58
2-Chloroethyl Vinyl ether
Concen: 15.838 ug/l
RT: 9.731 min Scan# 11
Delta R.T. 0.018 min
Lab File: VY022899.D
Acq: 01 Jul 2025 15:06

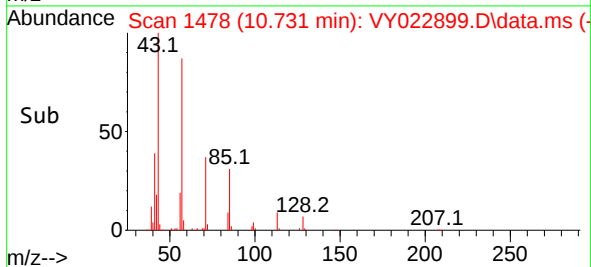
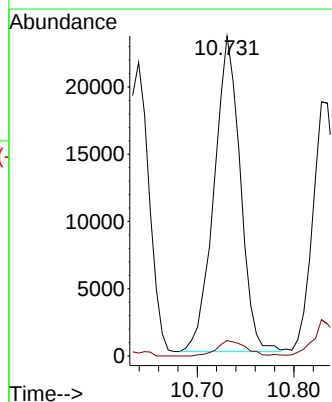
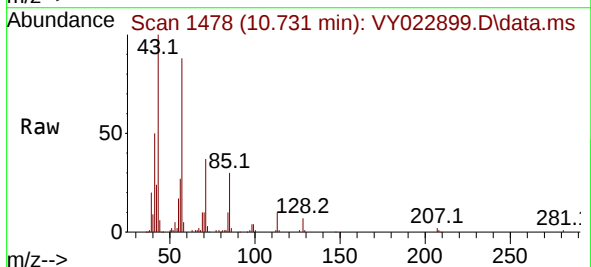
Instrument :
MSVOA_Y
ClientSampleId :
TP-66

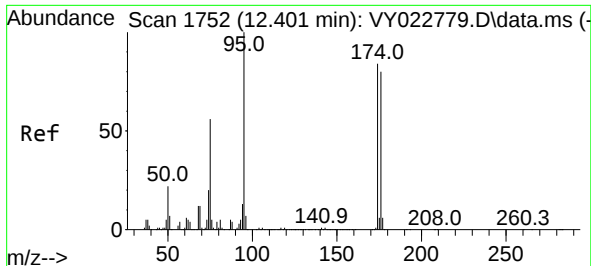
Tgt Ion: 63 Resp: 322
Ion Ratio Lower Upper
63 100
106 0.0 21.6 32.4#



#59
2-Hexanone
Concen: 32.273 ug/l
RT: 10.731 min Scan# 1478
Delta R.T. -0.031 min
Lab File: VY022899.D
Acq: 01 Jul 2025 15:06

Tgt Ion: 43 Resp: 44148
Ion Ratio Lower Upper
43 100
58 5.3 27.3 81.8#

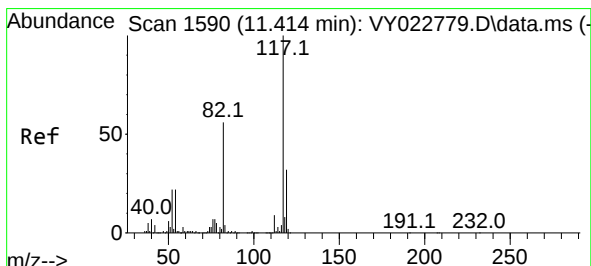
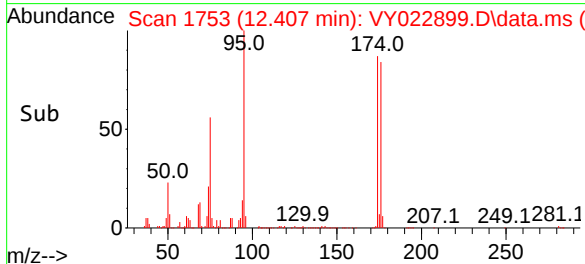
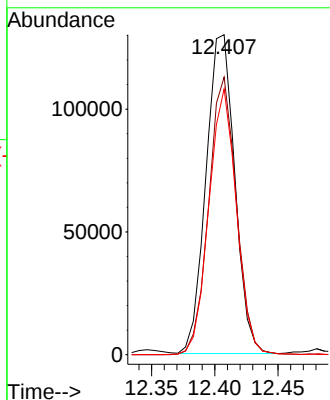
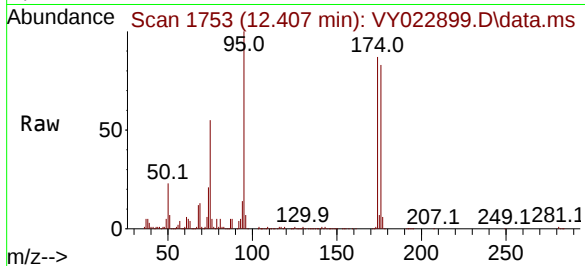




#62
4-Bromofluorobenzene
Concen: 55.244 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY022899.D
Acq: 01 Jul 2025 15:06

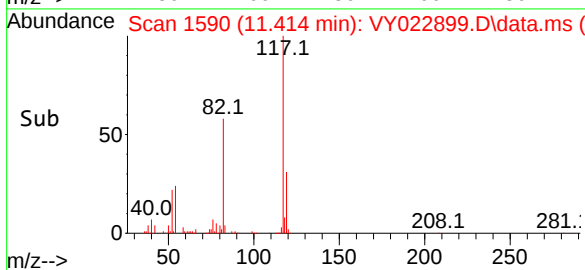
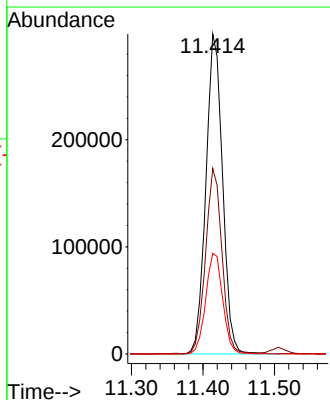
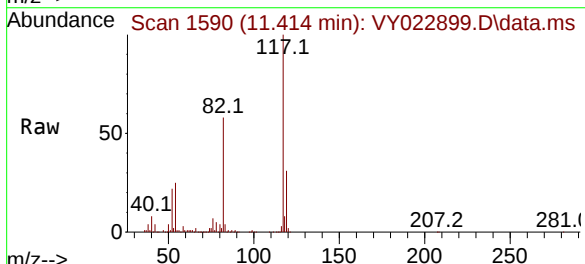
Instrument :
MSVOA_Y
ClientSampleId :
TP-66

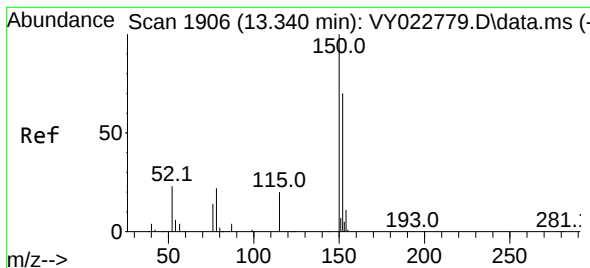
Tgt Ion: 95 Resp: 205251
Ion Ratio Lower Upper
95 100
174 83.9 0.0 170.0
176 80.1 0.0 166.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY022899.D
Acq: 01 Jul 2025 15:06

Tgt Ion: 117 Resp: 482244
Ion Ratio Lower Upper
117 100
82 57.7 44.6 66.8
119 31.5 25.4 38.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY022899.D

Acq: 01 Jul 2025 15:06

Instrument :

MSVOA_Y

ClientSampleId :

TP-66

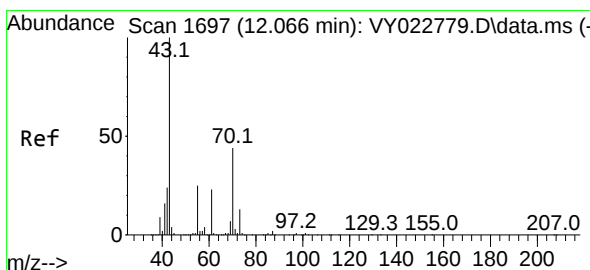
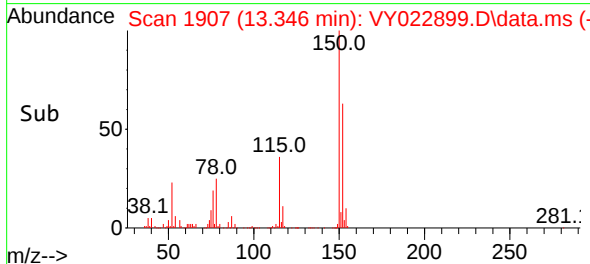
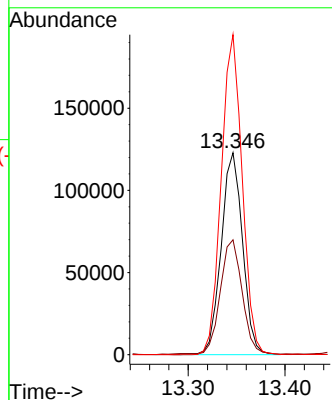
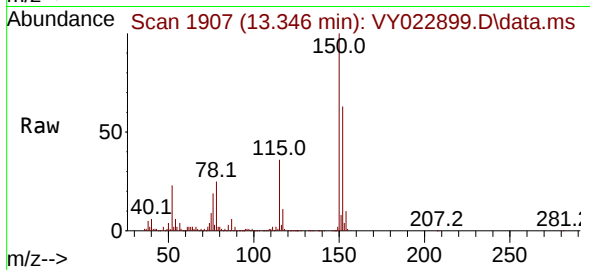
Tgt Ion:152 Resp: 188370

Ion Ratio Lower Upper

152 100

115 58.8 28.9 86.7

150 155.2 0.0 349.6



#74

N-ethyl acetate

Concen: 1.288 ug/l

RT: 12.048 min Scan# 1694

Delta R.T. -0.025 min

Lab File: VY022899.D

Acq: 01 Jul 2025 15:06

Tgt Ion: 43 Resp: 4029

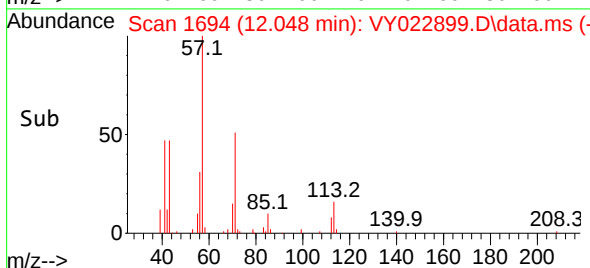
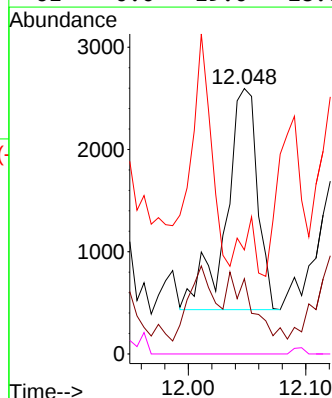
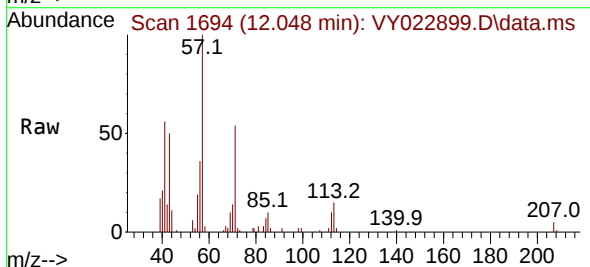
Ion Ratio Lower Upper

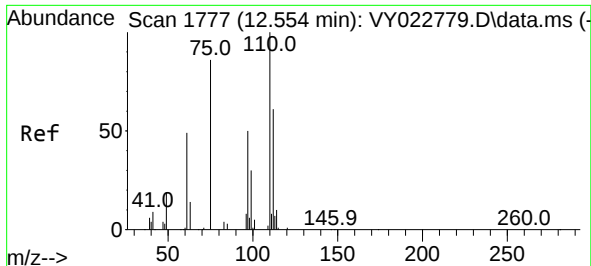
43 100

70 22.3 34.2 51.2#

55 22.2 18.2 27.4

61 0.0 19.0 28.6#

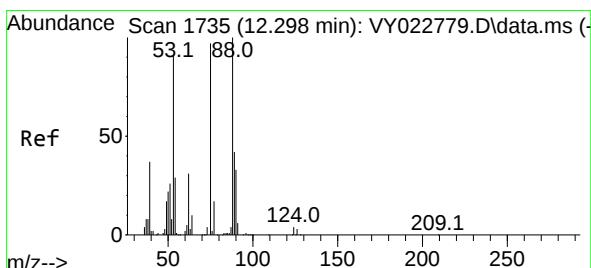
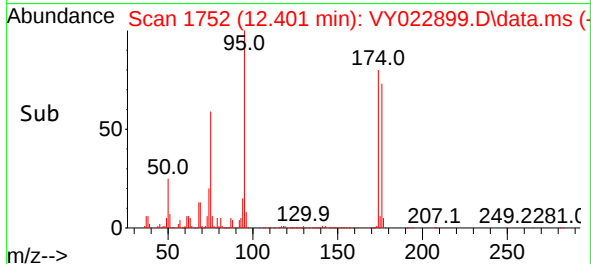
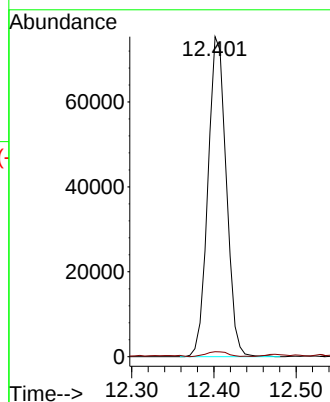
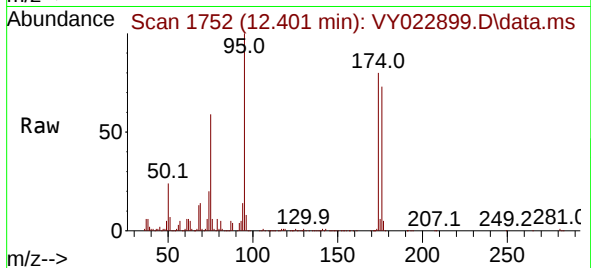




#76
1,2,3-Trichloropropane
Concen: 60.650 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.153 min
Lab File: VY022899.D
Acq: 01 Jul 2025 15:06

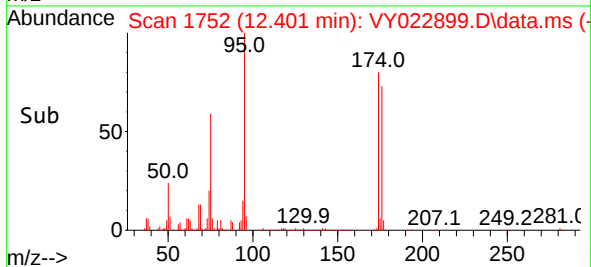
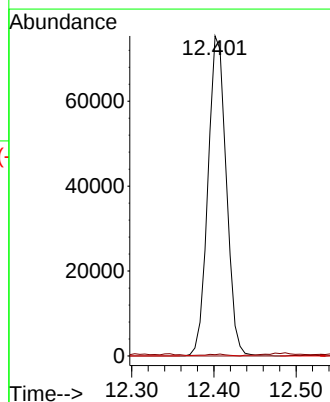
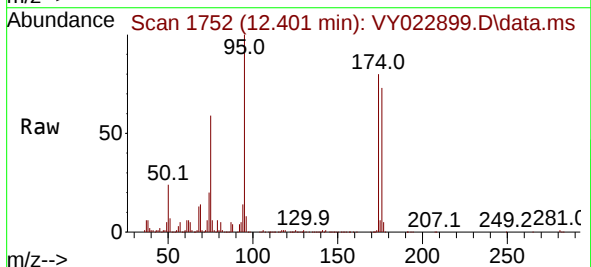
Instrument :
MSVOA_Y
ClientSampleId :
TP-66

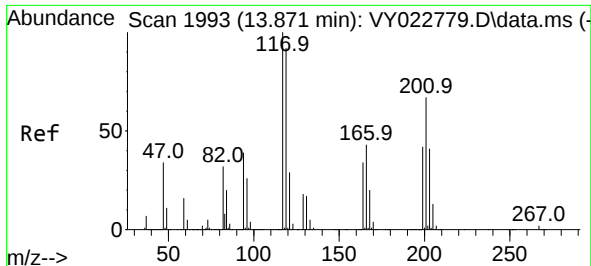
Tgt Ion: 75 Resp: 116635
Ion Ratio Lower Upper
75 100
77 2.0 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 153.224 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.097 min
Lab File: VY022899.D
Acq: 01 Jul 2025 15:06

Tgt Ion: 75 Resp: 116635
Ion Ratio Lower Upper
75 100
53 0.7 78.5 117.7#
89 0.0 35.7 53.5#

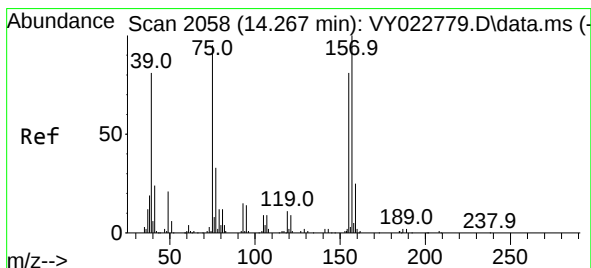
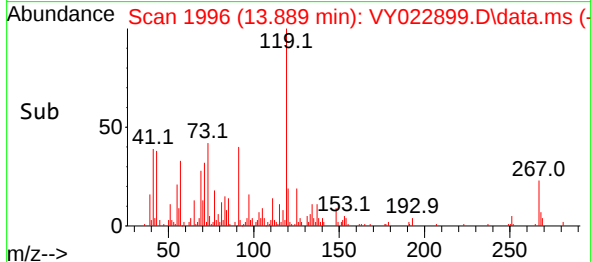
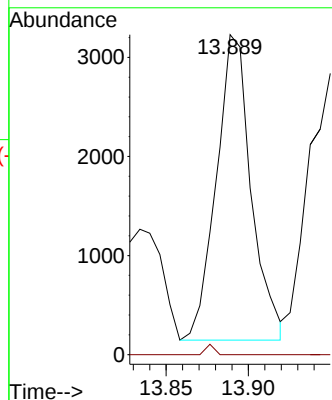
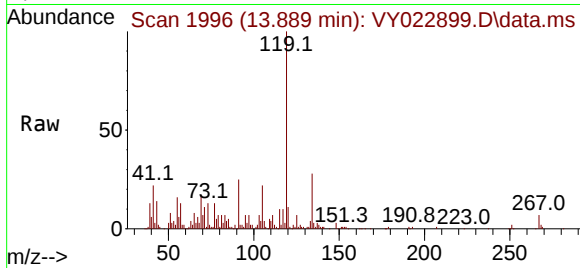




#90
Hexachloroethane
Concen: 1.838 ug/l
RT: 13.889 min Scan# 1996
Delta R.T. 0.006 min
Lab File: VY022899.D
Acq: 01 Jul 2025 15:06

Instrument :
MSVOA_Y
ClientSampleId :
TP-66

Tgt Ion:117 Resp: 4546
Ion Ratio Lower Upper
117 100
201 0.8 34.0 102.0#



#92
1,2-Dibromo-3-Chloropropane
Concen: 1.387 ug/l
RT: 14.285 min Scan# 2061
Delta R.T. 0.012 min
Lab File: VY022899.D
Acq: 01 Jul 2025 15:06

Tgt Ion: 75 Resp: 528
Ion Ratio Lower Upper
75 100
155 0.0 39.9 119.6#
157 29.2 54.0 162.0#

