

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030525\
 Data File : VY021419.D
 Acq On : 05 Mar 2025 17:42
 Operator : SY/MD
 Sample : Q1489-01
 Misc : 4.99g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-1

Quant Time: Mar 06 02:57:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 05 12:42:45 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	49723	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	66505	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	41886	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	11488	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	18698	35.579	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	71.160%
35) Dibromofluoromethane	7.634	113	21262	48.638	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	97.280%
50) Toluene-d8	10.109	98	71759	43.354	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	86.700%
62) 4-Bromofluorobenzene	12.407	95	13630	24.209	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	48.420%

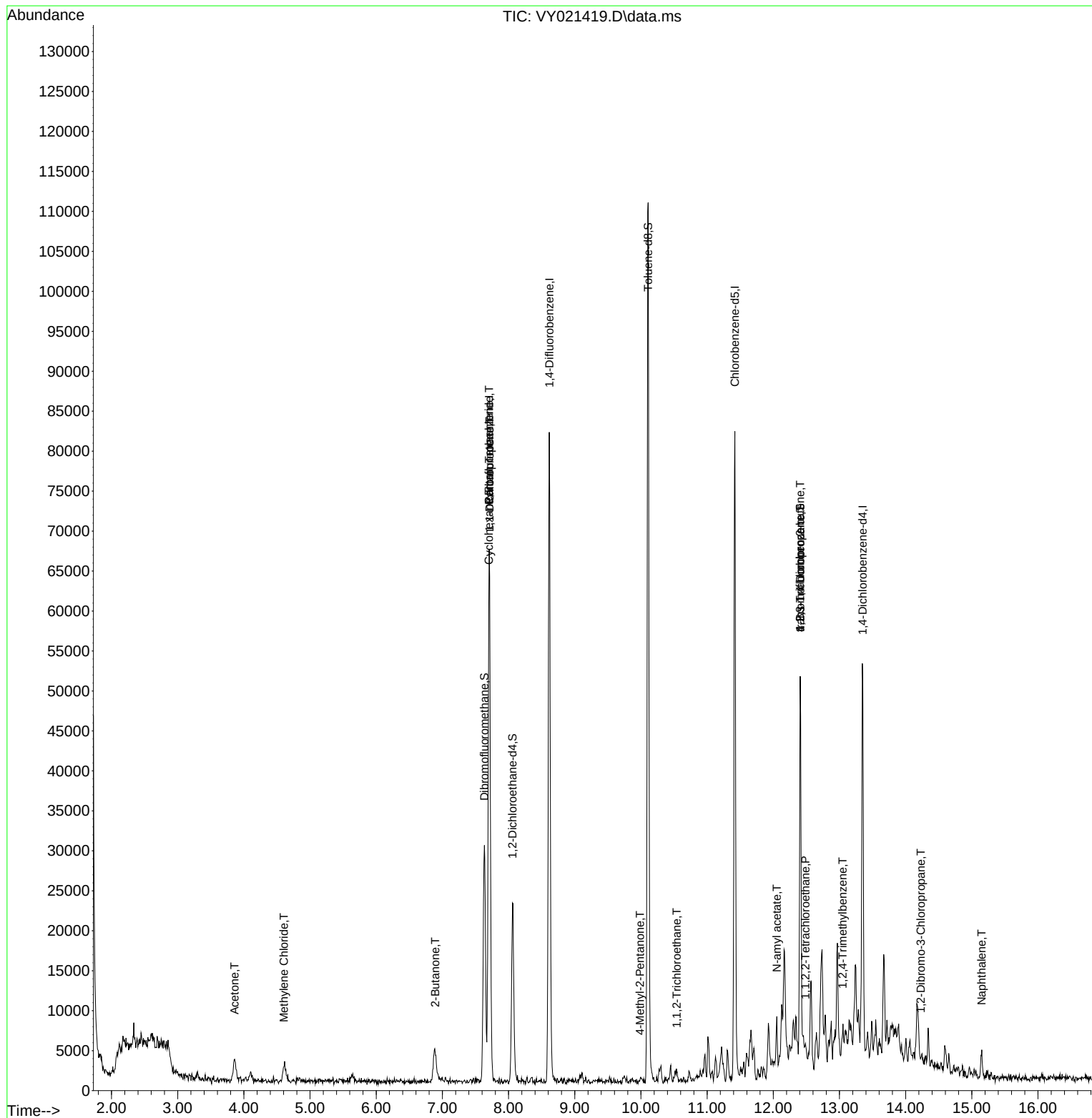
Target Compounds			Qvalue			
11) Tert butyl alcohol	4.842	59	351	Below Cal	#	72
16) Acetone	3.860	43	4711	41.099	ug/l #	77
20) Methylene Chloride	4.604	84	665	1.105	ug/l #	77
25) 2-Butanone	6.890	43	444	2.800	ug/l #	84
31) Cyclohexane	7.701	56	1342	1.363	ug/l #	35
36) 1,1-Dichloropropene	7.713	75	4401	6.432	ug/l #	50
38) Carbon Tetrachloride	7.707	117	5586	7.098	ug/l #	18
51) 4-Methyl-2-Pentanone	9.987	43	492	1.624	ug/l	93
55) 1,1,2-Trichloroethane	10.542	97	463	1.326	ug/l #	14
74) N-amyl acetate	12.054	43	1155	5.877	ug/l #	81
75) 1,1,2,2-Tetrachloroethane	12.487	83	325	2.035	ug/l #	26
76) 1,2,3-Trichloropropane	12.407	75	7827	67.612	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.407	75	7827	153.704	ug/l #	10
84) 1,2,4-Trimethylbenzene	13.048	105	939	1.286	ug/l	94
92) 1,2-Dibromo-3-Chloropr...	14.230	75	30	1.254	ug/l #	1
95) Naphthalene	15.151	128	2897	10.589	ug/l	97

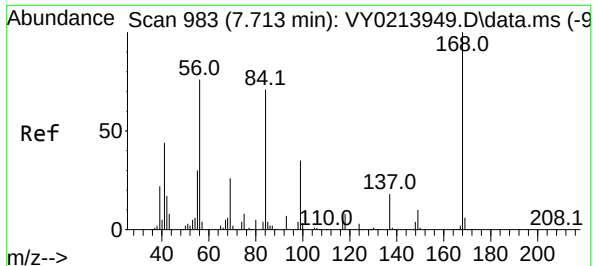
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Mar 05 12:42:45 2025
Response via : Initial Calibration

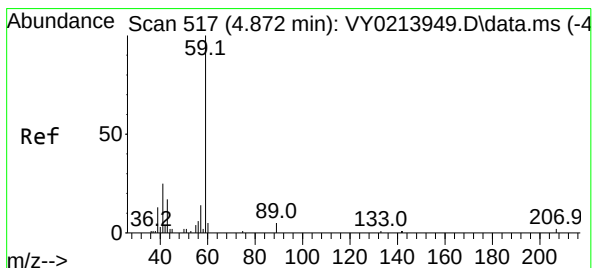
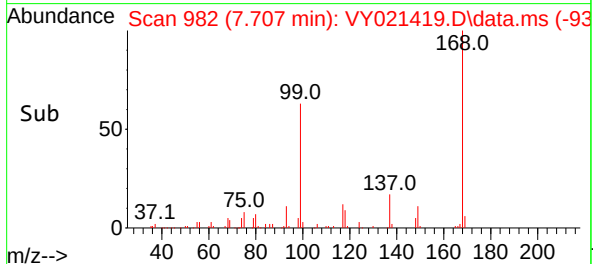
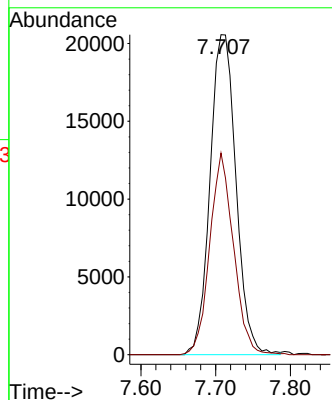
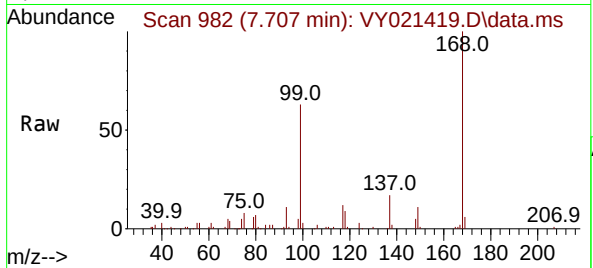




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY021419.D
Acq: 05 Mar 2025 17:42

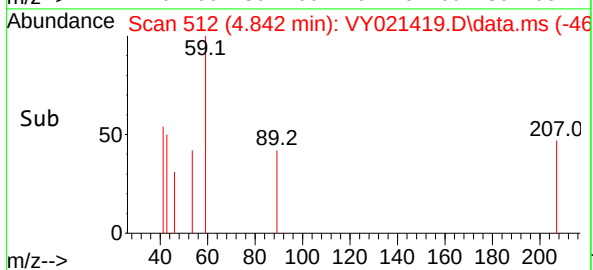
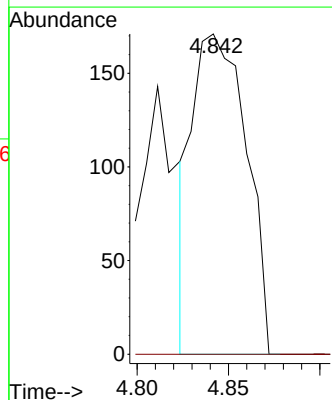
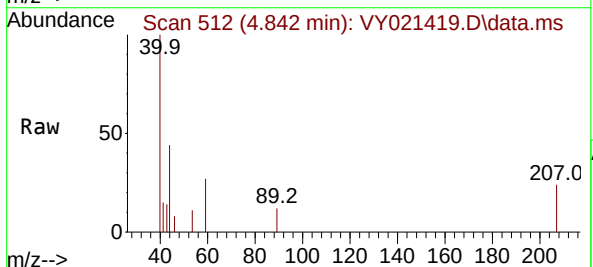
Instrument :
MSVOA_Y
ClientSampleId :
TP-1

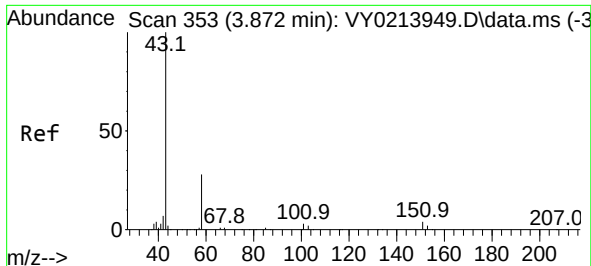
Tgt Ion:168 Resp: 49723
Ion Ratio Lower Upper
168 100
99 63.0 46.0 69.0



#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.842 min Scan# 512
Delta R.T. -0.030 min
Lab File: VY021419.D
Acq: 05 Mar 2025 17:42

Tgt Ion: 59 Resp: 351
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

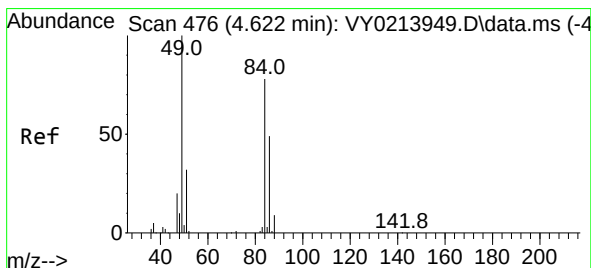
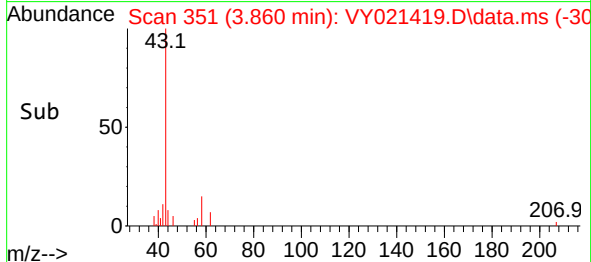
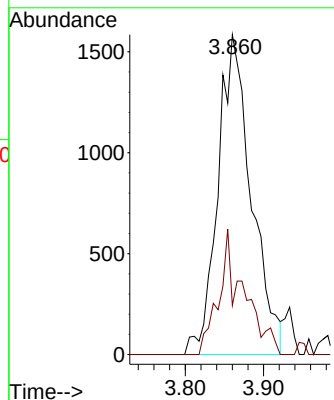
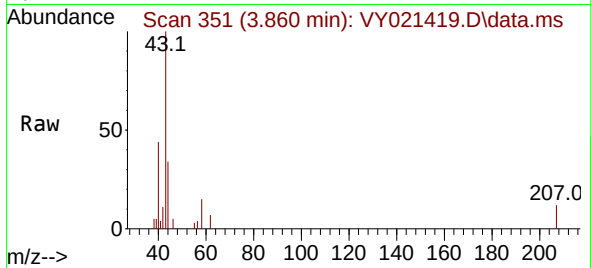




#16
Acetone
Concen: 41.099 ug/l
RT: 3.860 min Scan# 31
Delta R.T. -0.012 min
Lab File: VY021419.D
Acq: 05 Mar 2025 17:42

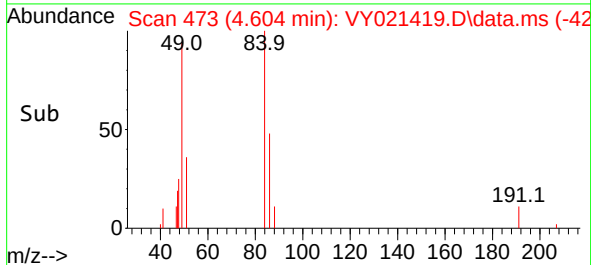
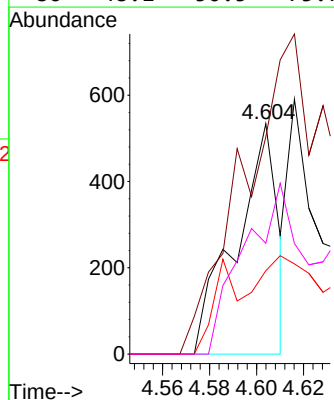
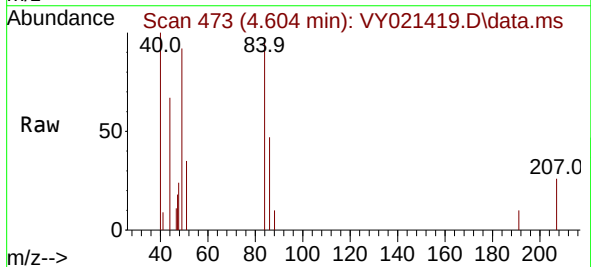
Instrument :
MSVOA_Y
ClientSampleId :
TP-1

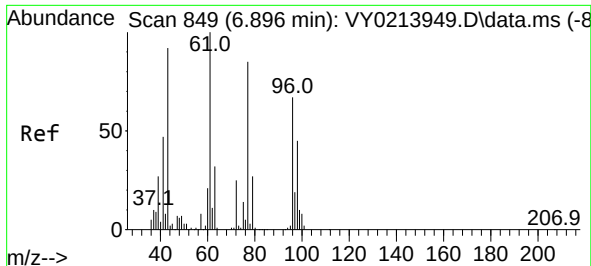
Tgt Ion: 43 Resp: 4711
Ion Ratio Lower Upper
43 100
58 15.4 22.1 33.1#



#20
Methylene Chloride
Concen: 1.105 ug/l
RT: 4.604 min Scan# 473
Delta R.T. -0.018 min
Lab File: VY021419.D
Acq: 05 Mar 2025 17:42

Tgt Ion: 84 Resp: 665
Ion Ratio Lower Upper
84 100
49 94.2 102.0 153.0#
51 36.1 33.0 49.6
86 48.1 50.5 75.7#

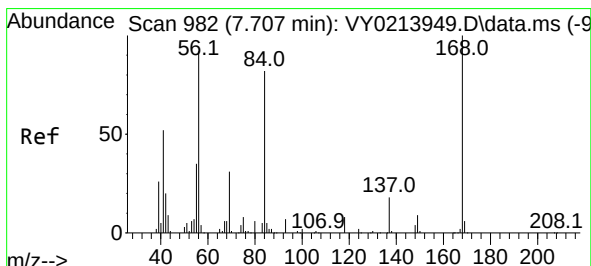
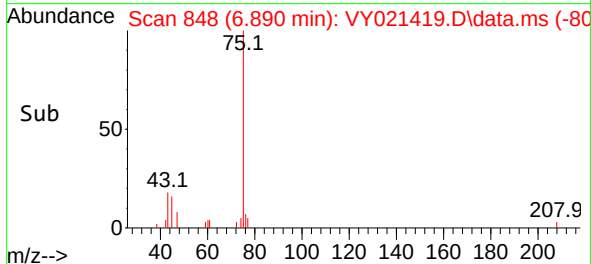
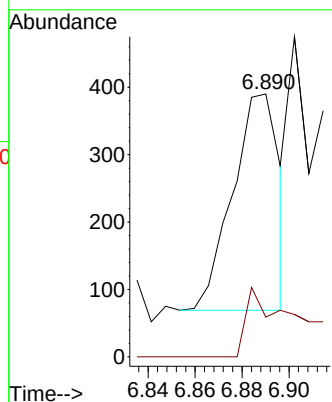
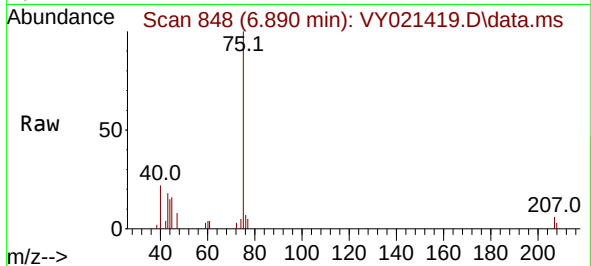




#25
2-Butanone
Concen: 2.800 ug/l
RT: 6.890 min Scan# 849
Delta R.T. -0.006 min
Lab File: VY021419.D
Acq: 05 Mar 2025 17:42

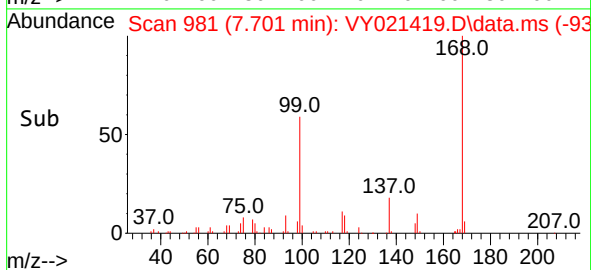
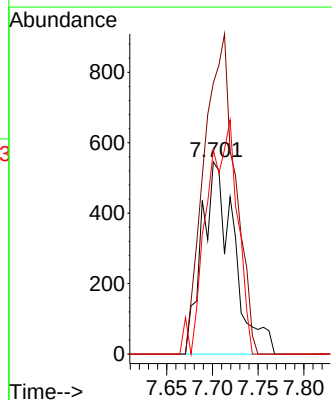
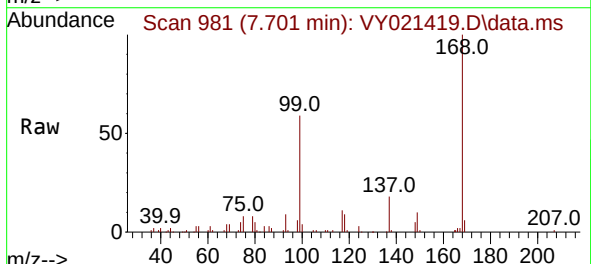
Instrument :
MSVOA_Y
ClientSampleId :
TP-1

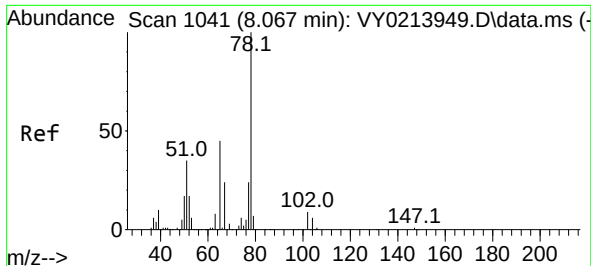
Tgt Ion: 43 Resp: 444
Ion Ratio Lower Upper
43 100
72 18.4 21.4 32.0#



#31
Cyclohexane
Concen: 1.363 ug/l
RT: 7.701 min Scan# 981
Delta R.T. -0.006 min
Lab File: VY021419.D
Acq: 05 Mar 2025 17:42

Tgt Ion: 56 Resp: 1342
Ion Ratio Lower Upper
56 100
69 141.0 27.0 40.4#
84 106.2 71.1 106.7





#33

1,2-Dichloroethane-d4

Concen: 35.579 ug/l

RT: 8.061 min Scan# 1040

Delta R.T. -0.006 min

Lab File: VY021419.D

Acq: 05 Mar 2025 17:42

Instrument :

MSVOA_Y

ClientSampleId :

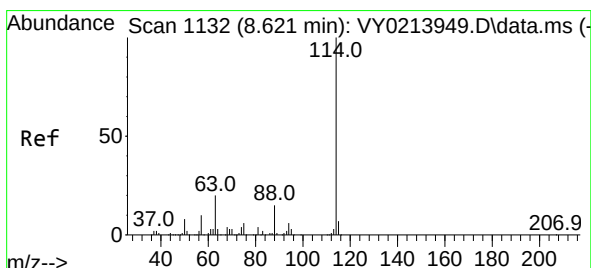
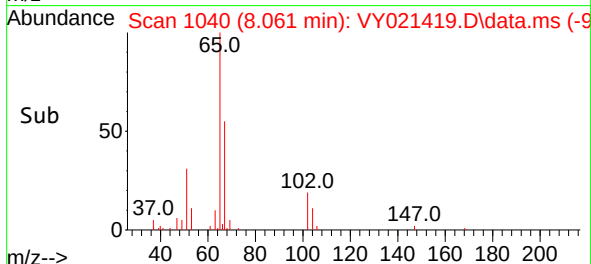
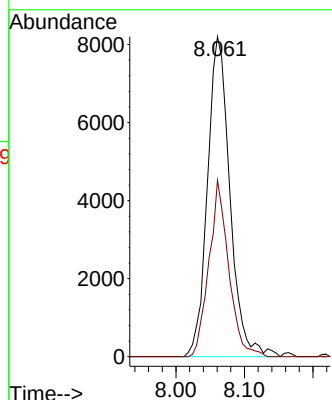
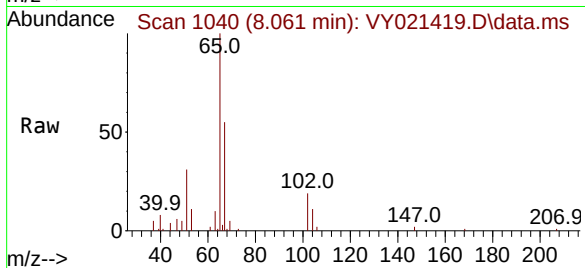
TP-1

Tgt Ion: 65 Resp: 18698

Ion Ratio Lower Upper

65 100

67 48.5 0.0 102.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.615 min Scan# 1131

Delta R.T. -0.006 min

Lab File: VY021419.D

Acq: 05 Mar 2025 17:42

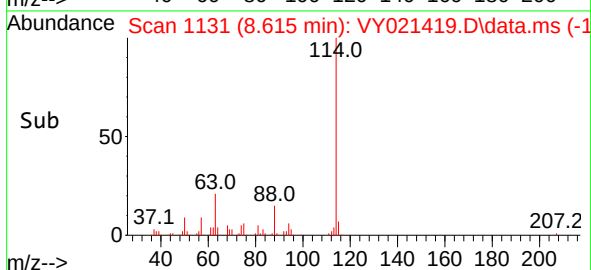
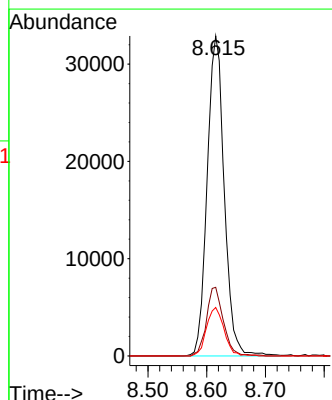
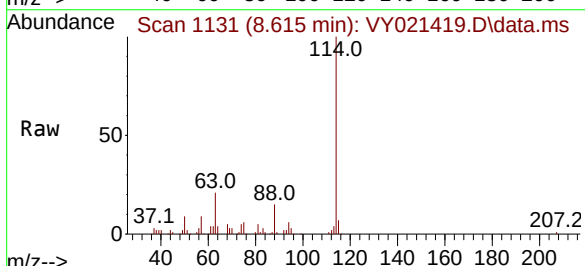
Tgt Ion: 114 Resp: 66505

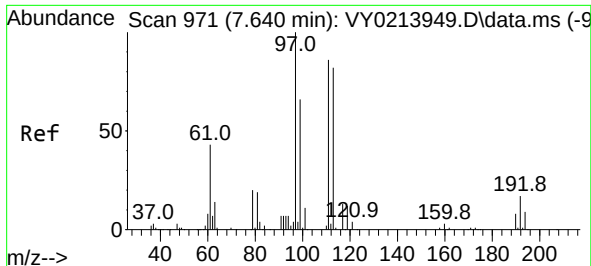
Ion Ratio Lower Upper

114 100

63 21.4 0.0 40.8

88 15.1 0.0 30.8





#35

Dibromofluoromethane

Concen: 48.638 ug/l

RT: 7.634 min Scan# 91

Delta R.T. -0.006 min

Lab File: VY021419.D

Acq: 05 Mar 2025 17:42

Instrument :

MSVOA_Y

ClientSampleId :

TP-1

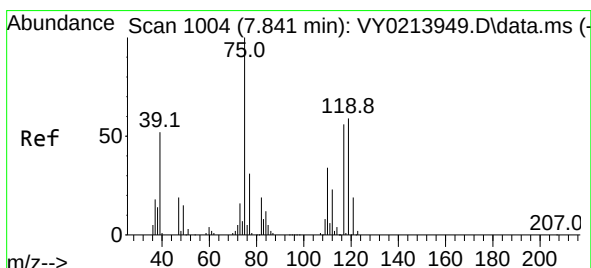
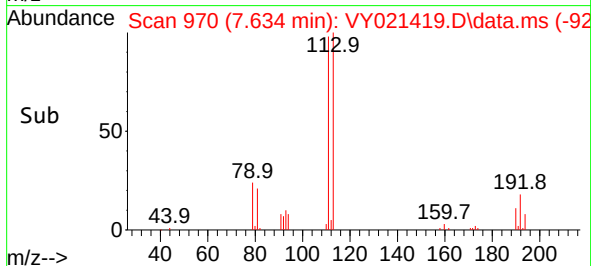
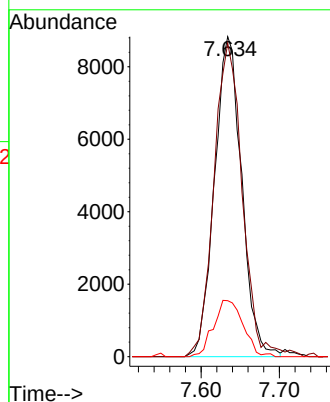
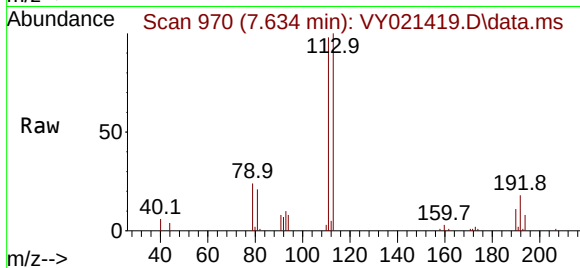
Tgt Ion:113 Resp: 21262

Ion Ratio Lower Upper

113 100

111 102.7 82.0 123.0

192 19.3 15.9 23.9



#36

1,1-Dichloropropene

Concen: 6.432 ug/l

RT: 7.713 min Scan# 983

Delta R.T. -0.128 min

Lab File: VY021419.D

Acq: 05 Mar 2025 17:42

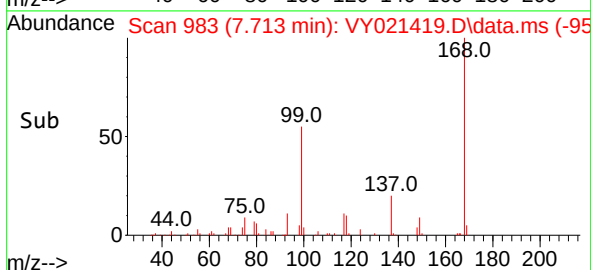
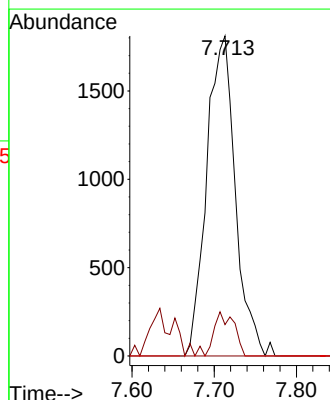
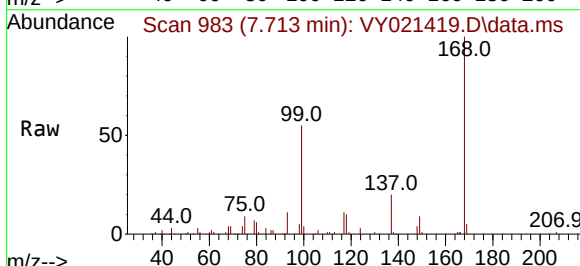
Tgt Ion: 75 Resp: 4401

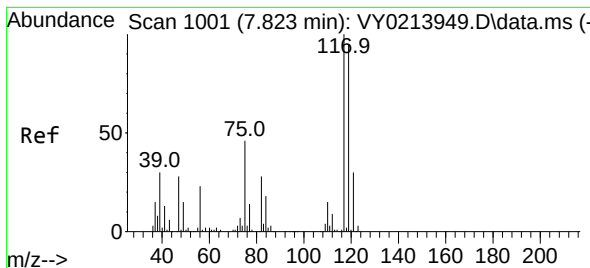
Ion Ratio Lower Upper

75 100

110 9.4 17.3 51.7#

77 0.0 25.4 38.2#





#38

Carbon Tetrachloride

Concen: 7.098 ug/l

RT: 7.707 min Scan# 91

Delta R.T. -0.116 min

Lab File: VY021419.D

Acq: 05 Mar 2025 17:42

Instrument :

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ClientSampleId :

TP-1

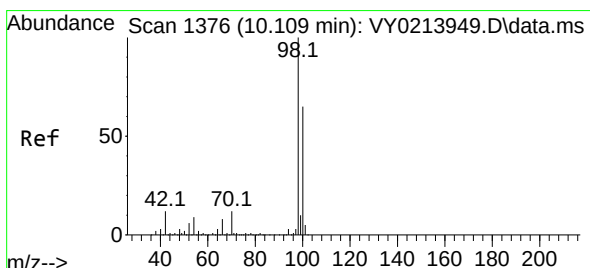
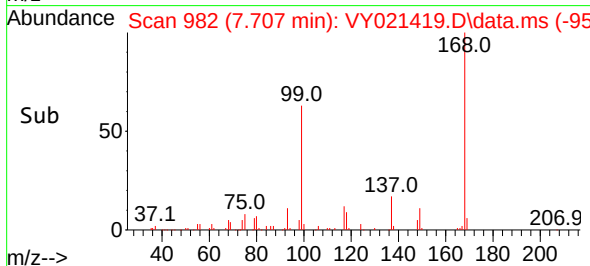
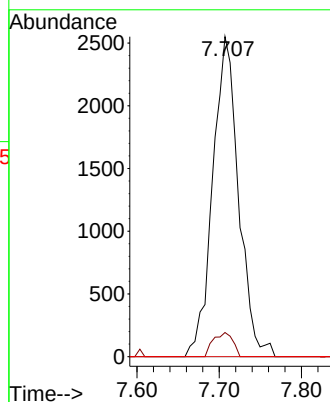
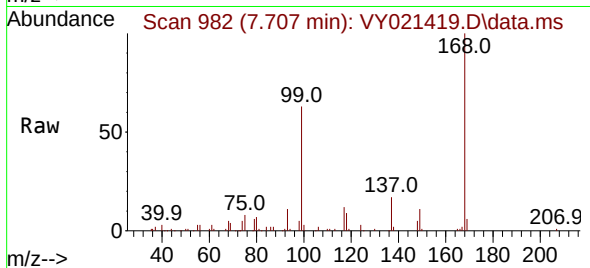
Tgt Ion:117 Resp: 5586

Ion Ratio Lower Upper

117 100

119 7.5 75.8 113.8#

121 0.0 23.9 35.9#



#50

Toluene-d8

Concen: 43.354 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. 0.000 min

Lab File: VY021419.D

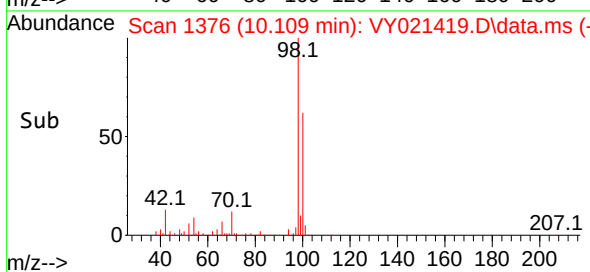
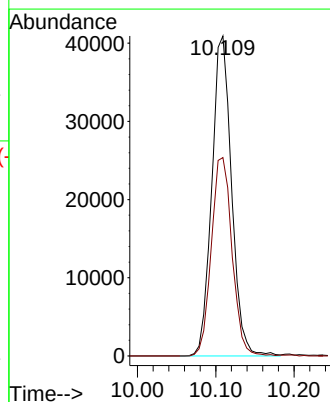
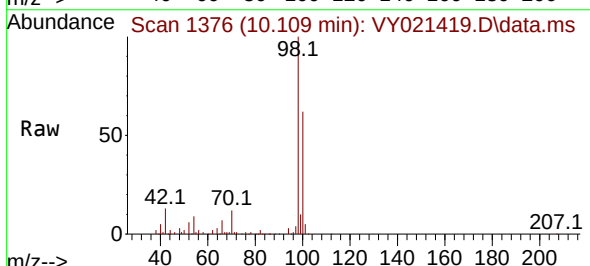
Acq: 05 Mar 2025 17:42

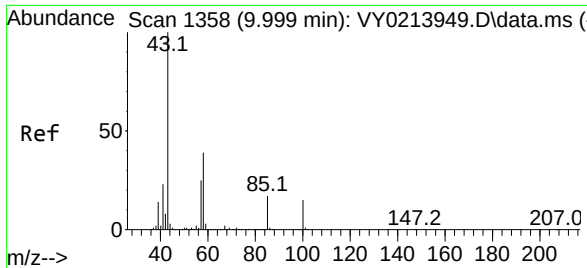
Tgt Ion: 98 Resp: 71759

Ion Ratio Lower Upper

98 100

100 64.9 52.1 78.1

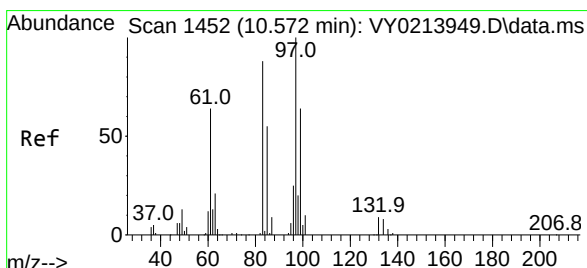
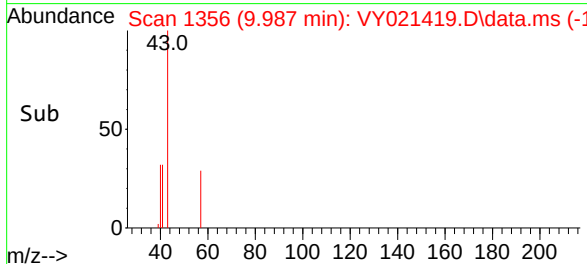
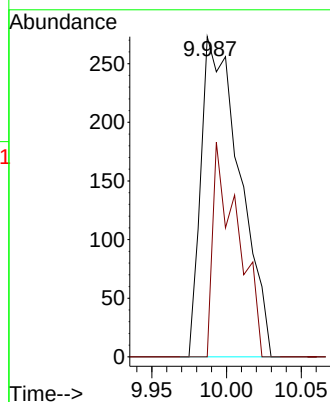
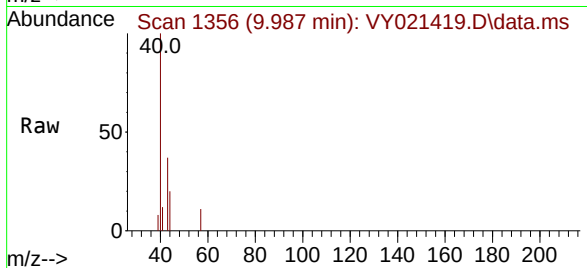




#51
4-Methyl-2-Pentanone
Concen: 1.624 ug/l
RT: 9.987 min Scan# 11
Delta R.T. -0.012 min
Lab File: VY021419.D
Acq: 05 Mar 2025 17:42

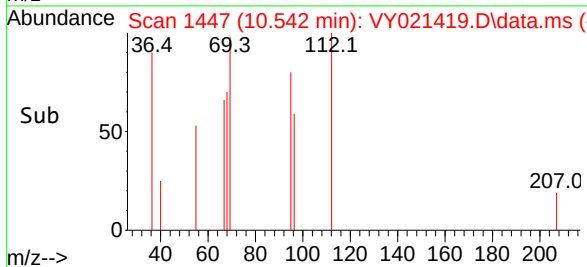
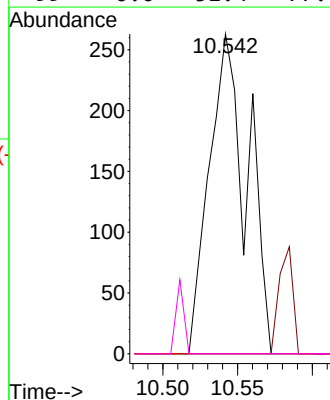
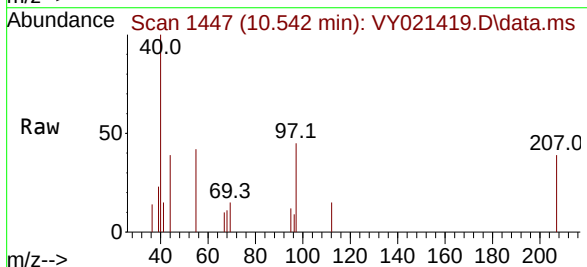
Instrument :
MSVOA_Y
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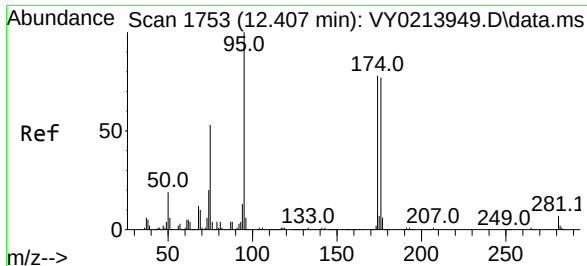
Tgt Ion: 43 Resp: 492
Ion Ratio Lower Upper
43 100
58 43.3 31.4 47.2



#55
1,1,2-Trichloroethane
Concen: 1.326 ug/l
RT: 10.542 min Scan# 1447
Delta R.T. -0.030 min
Lab File: VY021419.D
Acq: 05 Mar 2025 17:42

Tgt Ion: 97 Resp: 463
Ion Ratio Lower Upper
97 100
83 0.0 70.0 105.0#
85 0.0 44.3 66.5#
99 0.0 51.4 77.0#





#62

4-Bromofluorobenzene

Concen: 24.209 ug/l

RT: 12.407 min Scan# 1753

Delta R.T. 0.000 min

Lab File: VY021419.D

Acq: 05 Mar 2025 17:42

Instrument :

MSVOA_Y

ClientSampleId :

TP-1

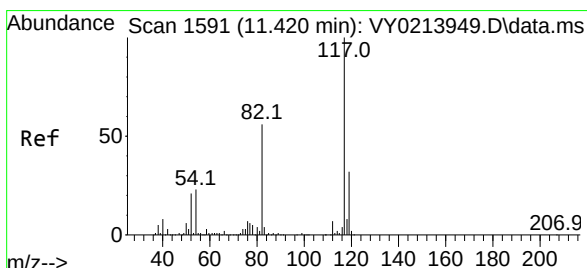
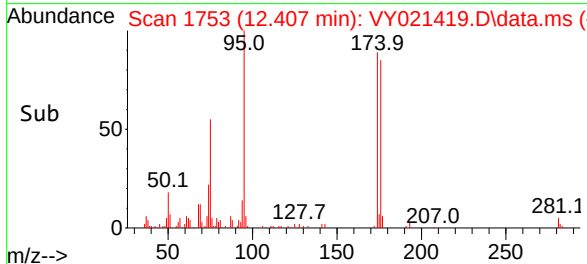
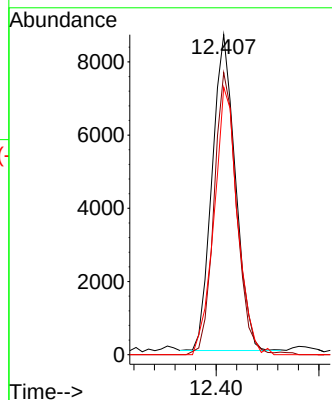
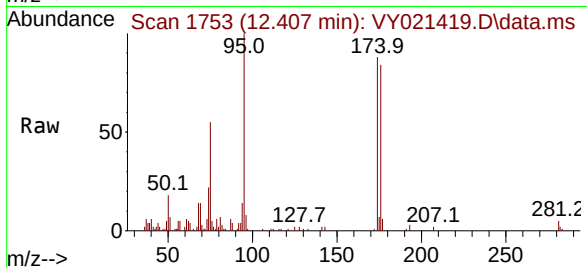
Tgt Ion: 95 Resp: 13630

Ion Ratio Lower Upper

95 100

174 85.9 0.0 165.0

176 84.9 0.0 160.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 1591

Delta R.T. 0.000 min

Lab File: VY021419.D

Acq: 05 Mar 2025 17:42

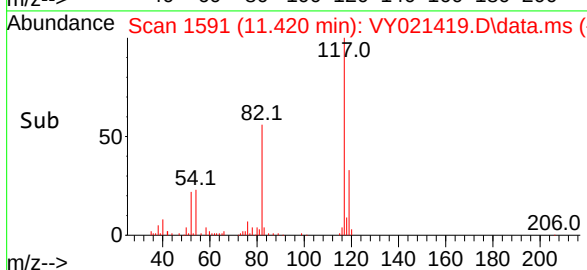
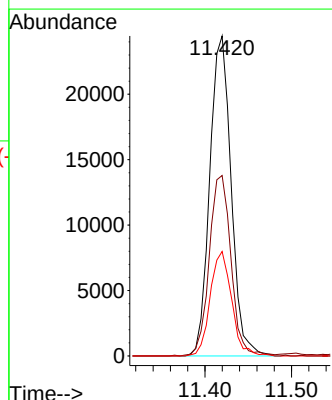
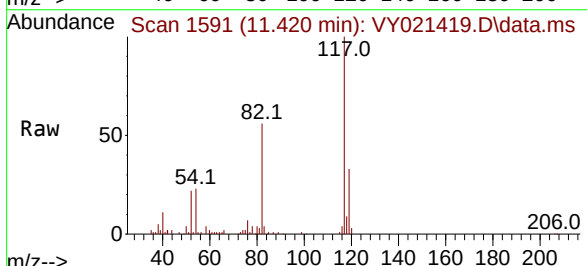
Tgt Ion: 117 Resp: 41886

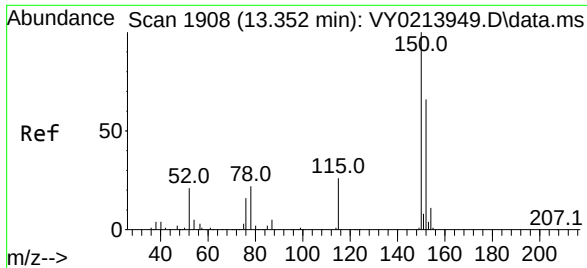
Ion Ratio Lower Upper

117 100

82 56.4 44.6 67.0

119 32.6 25.4 38.0

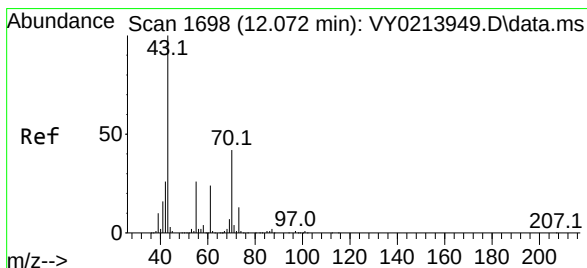
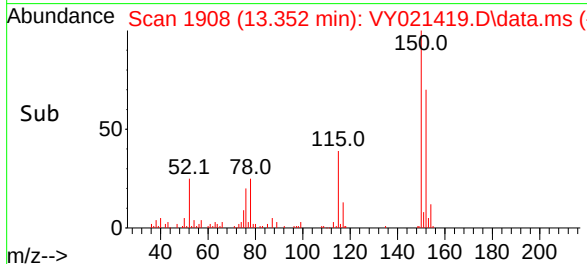
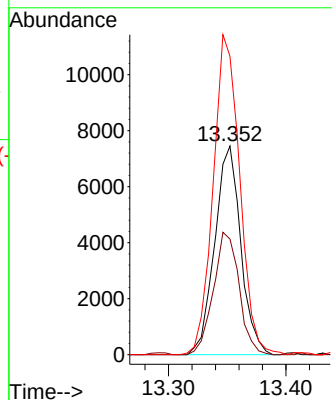
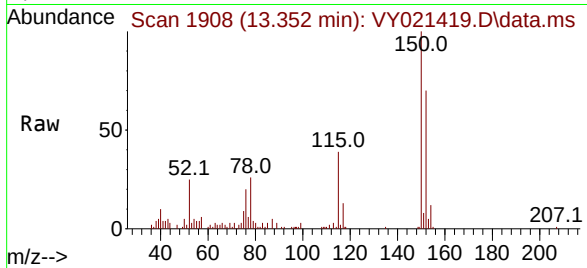




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.000 min
Lab File: VY021419.D
Acq: 05 Mar 2025 17:42

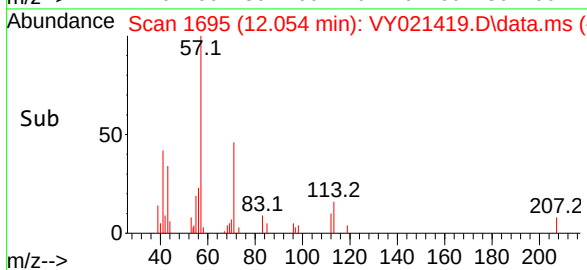
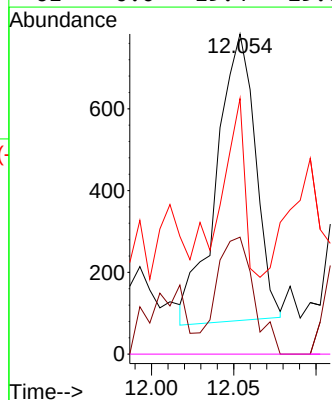
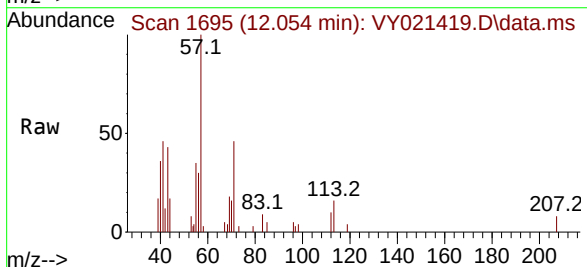
Instrument :
MSVOA_Y
ClientSampleId :
TP-1

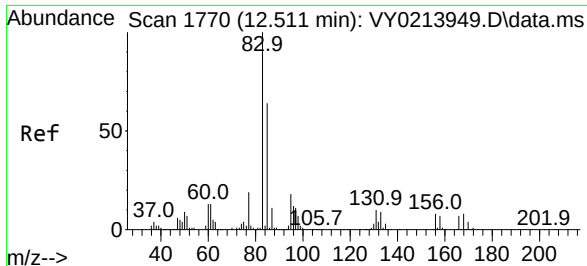
Tgt Ion:152 Resp: 11488
Ion Ratio Lower Upper
152 100
115 57.7 29.0 87.0
150 156.0 0.0 347.2



#74
N-ethyl acetate
Concen: 5.877 ug/l
RT: 12.054 min Scan# 1695
Delta R.T. -0.018 min
Lab File: VY021419.D
Acq: 05 Mar 2025 17:42

Tgt Ion: 43 Resp: 1155
Ion Ratio Lower Upper
43 100
70 38.4 34.6 51.8
55 31.2 21.1 31.7
61 0.0 19.4 29.0#

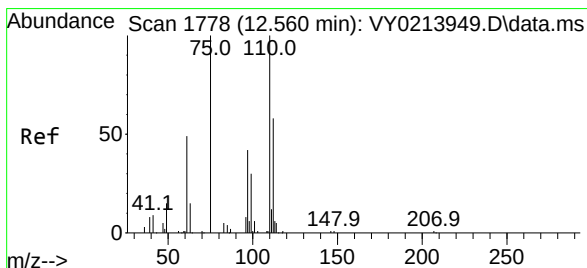
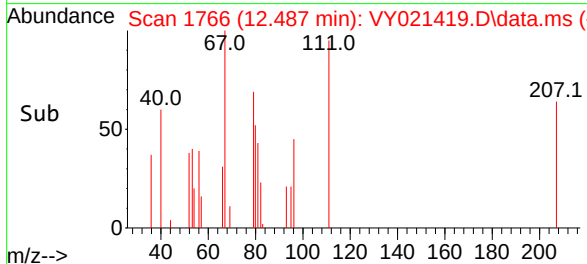
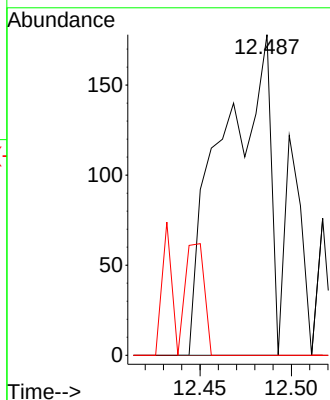
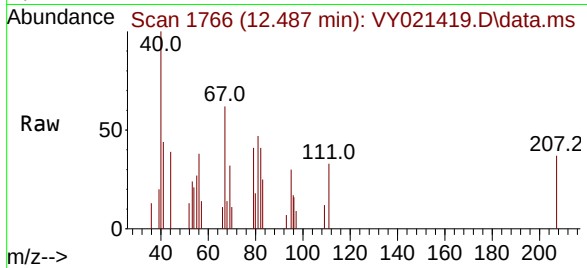




#75
 1,1,2,2-Tetrachloroethane
 Concen: 2.035 ug/l
 RT: 12.487 min Scan# 1753
 Delta R.T. -0.024 min
 Lab File: VY021419.D
 Acq: 05 Mar 2025 17:42

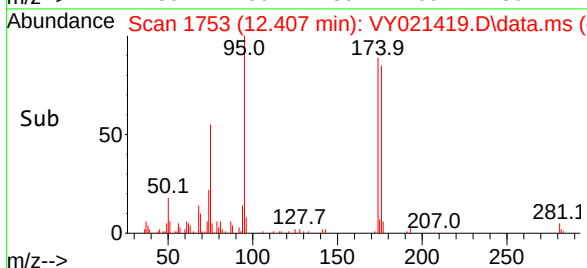
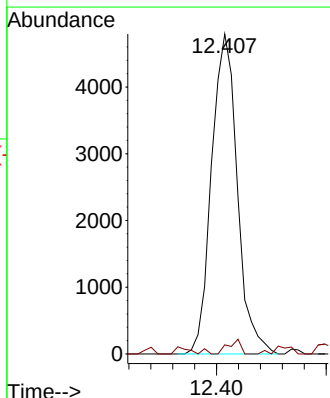
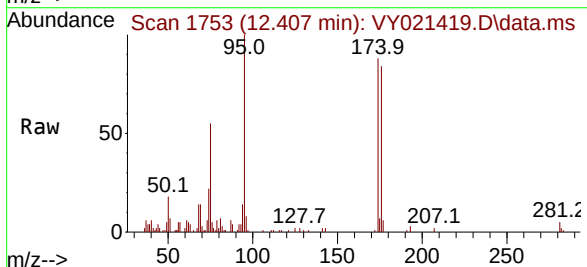
Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-1

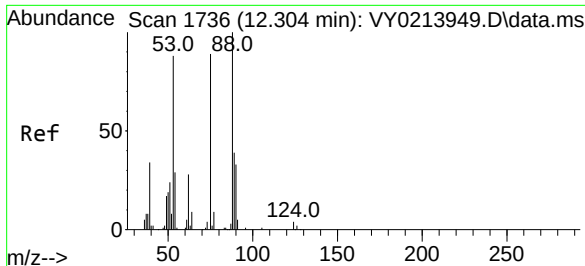
Tgt Ion: 83 Resp: 325
 Ion Ratio Lower Upper
 83 100
 131 0.0 5.3 16.1#
 85 0.0 31.9 95.5#



#76
 1,2,3-Trichloropropane
 Concen: 67.612 ug/l
 RT: 12.407 min Scan# 1753
 Delta R.T. -0.152 min
 Lab File: VY021419.D
 Acq: 05 Mar 2025 17:42

Tgt Ion: 75 Resp: 7827
 Ion Ratio Lower Upper
 75 100
 77 2.2 0.0 0.0#

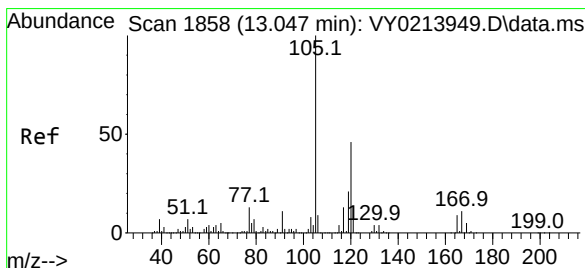
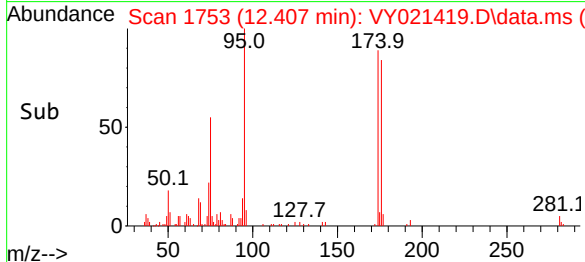
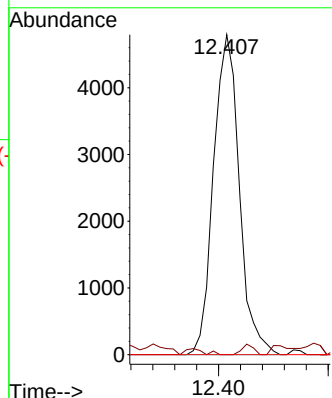
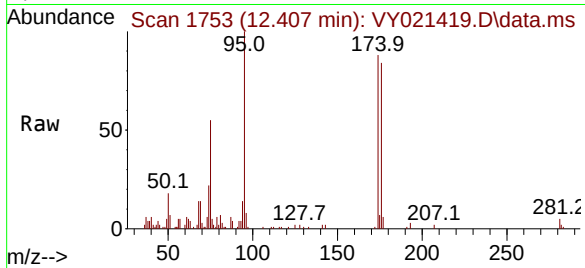




#81
trans-1,4-Dichloro-2-butene
Concen: 153.704 ug/l
RT: 12.407 min Scan# 1736
Delta R.T. 0.104 min
Lab File: VY021419.D
Acq: 05 Mar 2025 17:42

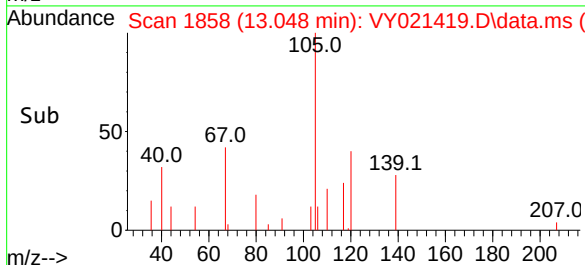
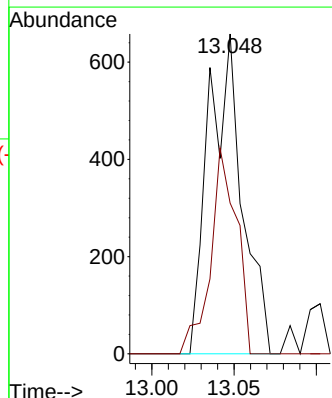
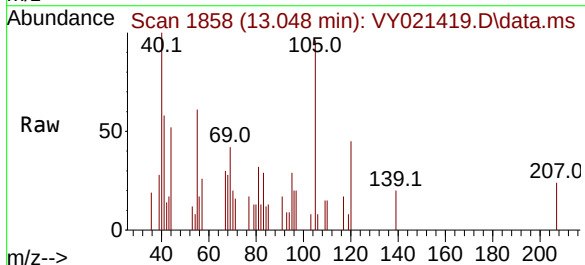
Instrument :
MSVOA_Y
ClientSampleId :
TP-1

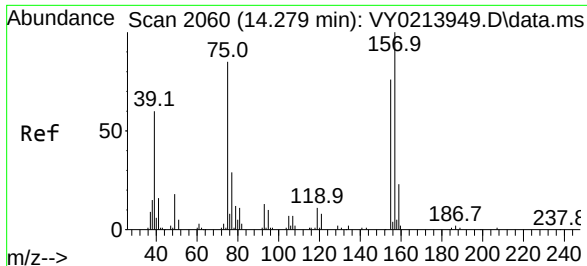
Tgt Ion: 75 Resp: 7827
Ion Ratio Lower Upper
75 100
53 1.5 81.0 121.4#
89 0.0 36.9 55.3#



#84
1,2,4-Trimethylbenzene
Concen: 1.286 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. 0.000 min
Lab File: VY021419.D
Acq: 05 Mar 2025 17:42

Tgt Ion: 105 Resp: 939
Ion Ratio Lower Upper
105 100
120 49.5 22.7 68.1





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.254 ug/l

RT: 14.230 min Scan# 2052

Delta R.T. -0.049 min

Lab File: VY021419.D

Acq: 05 Mar 2025 17:42

Instrument :

MSVOA_Y

ClientSampleId :

TP-1

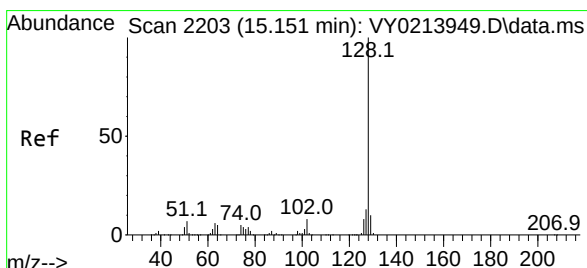
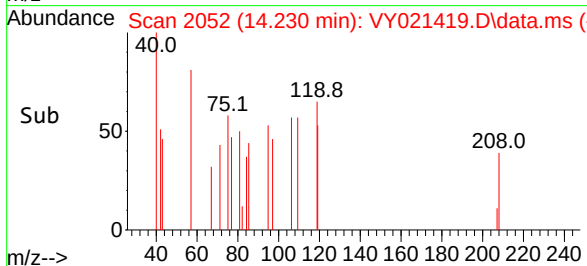
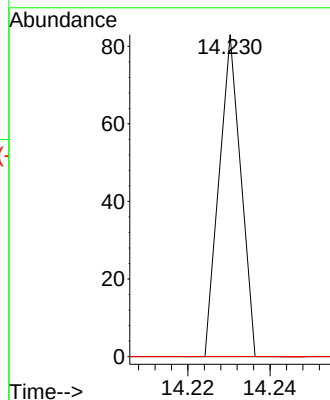
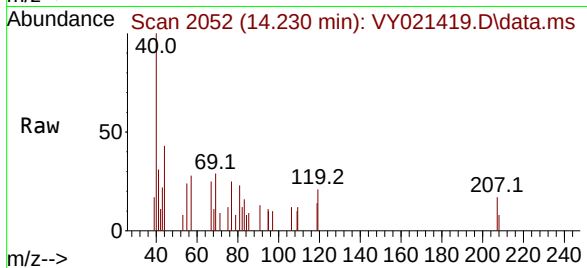
Tgt Ion: 75 Resp: 30

Ion Ratio Lower Upper

75 100

155 0.0 43.5 130.5#

157 0.0 54.4 163.2#



#95

Naphthalene

Concen: 10.589 ug/l

RT: 15.151 min Scan# 2203

Delta R.T. -0.000 min

Lab File: VY021419.D

Acq: 05 Mar 2025 17:42

Tgt Ion: 128 Resp: 2897

Ion Ratio Lower Upper

128 100

127 14.0 10.6 15.8

129 12.0 8.6 13.0

