

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032025\
 Data File : VY021580.D
 Acq On : 20 Mar 2025 14:24
 Operator : SY/MD
 Sample : Q1606-05
 Misc : 5.02g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 RT4534

Quant Time: Mar 21 01:33:34 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)

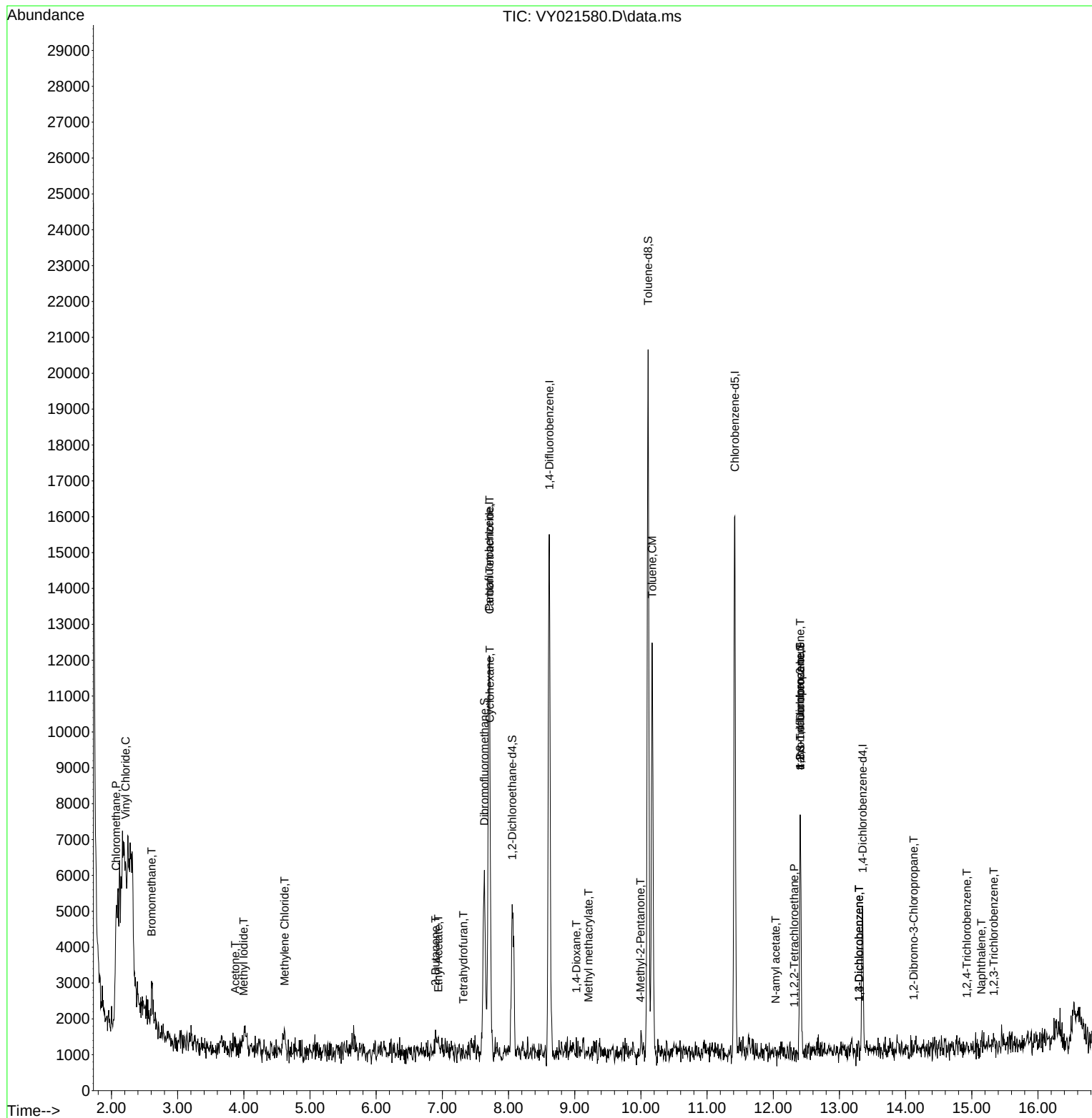
Internal Standards						
1) Pentafluorobenzene	7.707	168	8725	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	11826	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	7821	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	1092	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	3736	40.513	ug/l	-0.01
Spiked Amount	50.000	Range	50 - 163	Recovery	=	81.020%
35) Dibromofluoromethane	7.634	113	3692	47.495	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	95.000%
50) Toluene-d8	10.109	98	12690	43.115	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	86.240%
62) 4-Bromofluorobenzene	12.408	95	2094	20.915	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	41.840%
Target Compounds						Qvalue
3) Chloromethane	2.068	50	657	5.820	ug/l	97
4) Vinyl Chloride	2.214	62	324	2.627	ug/l	# 42
5) Bromomethane	2.604	94	596	6.685	ug/l	88
10) Methyl Iodide	3.994	142	482	4.824	ug/l	# 37
11) Tert butyl alcohol	4.824	59	41	Below Cal	#	72
16) Acetone	3.872	43	104	5.171	ug/l	# 47
20) Methylene Chloride	4.616	84	323	3.059	ug/l	90
25) 2-Butanone	6.896	43	486	17.467	ug/l	# 48
29) Tetrahydrofuran	7.317	42	24	1.397	ug/l	# 33
31) Cyclohexane	7.719	56	191	1.106	ug/l	# 16
37) Ethyl Acetate	6.939	43	201	3.737	ug/l	# 68
38) Carbon Tetrachloride	7.713	117	830	5.931	ug/l	# 12
48) Methyl methacrylate	9.207	41	80	1.669	ug/l	# 38
49) 1,4-Dioxane	9.024	88	42	90.149	ug/l	# 22
51) 4-Methyl-2-Pentanone	9.993	43	396	7.351	ug/l	# 61
52) Toluene	10.170	92	4759	21.059	ug/l	92
74) N-amyl acetate	12.036	43	20	1.071	ug/l	# 42
75) 1,1,2,2-Tetrachloroethane	12.316	83	21	1.383	ug/l	# 26
76) 1,2,3-Trichloropropane	12.408	75	1160	105.417	ug/l	# 100
81) trans-1,4-Dichloro-2-b...	12.408	75	1160	239.646	ug/l	# 12
87) 1,3-Dichlorobenzene	13.298	146	52	1.298	ug/l	# 69
88) 1,4-Dichlorobenzene	13.298	146	52	1.327	ug/l	# 69
92) 1,2-Dibromo-3-Chloropr...	14.121	75	25	10.995	ug/l	# 1
93) 1,2,4-Trichlorobenzene	14.925	180	62	3.306	ug/l	# 86
95) Naphthalene	15.145	128	242	9.500	ug/l	# 69
96) 1,2,3-Trichlorobenzene	15.334	180	23	1.458	ug/l	# 1

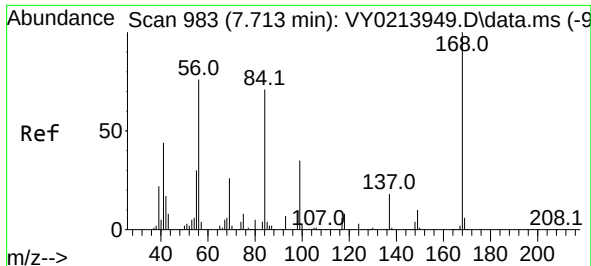
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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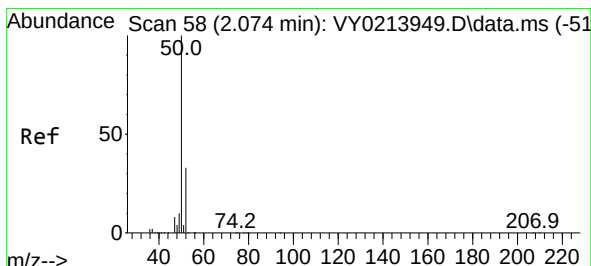
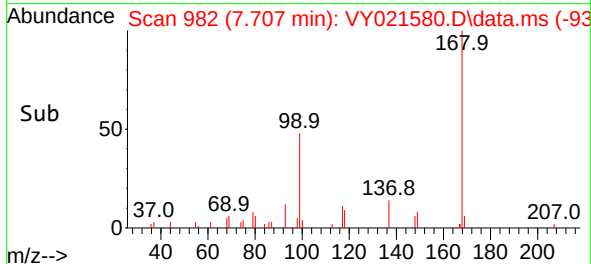
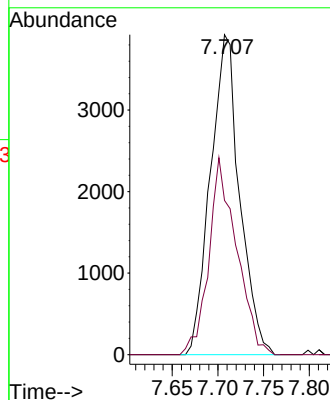
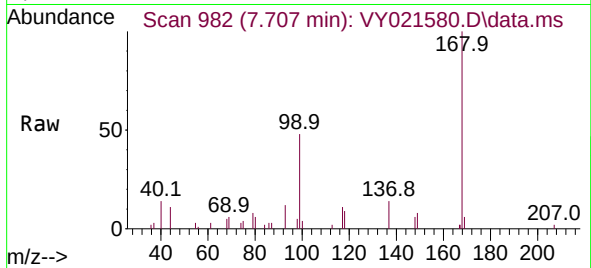




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY021580.D
Acq: 20 Mar 2025 14:24

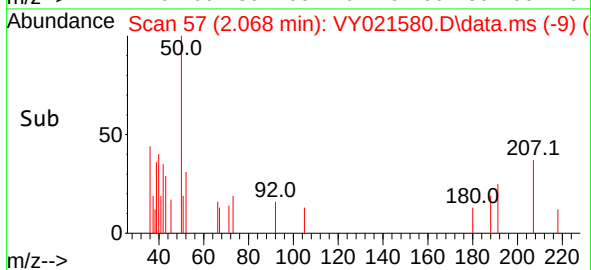
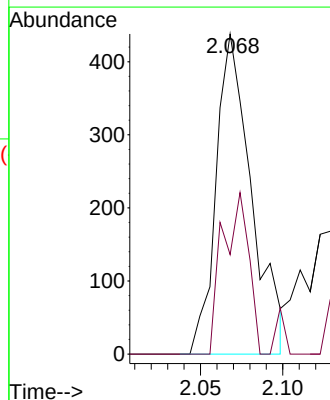
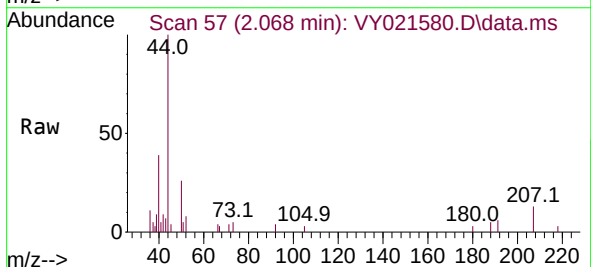
Instrument :
MSVOA_Y
ClientSampleId :
RT4534

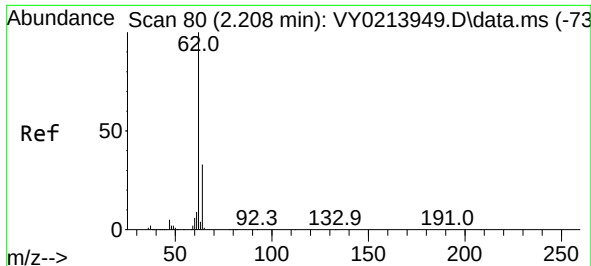
Tgt Ion:168 Resp: 8725
Ion Ratio Lower Upper
168 100
99 48.2 46.0 69.0



#3
Chloromethane
Concen: 5.820 ug/l
RT: 2.068 min Scan# 57
Delta R.T. -0.006 min
Lab File: VY021580.D
Acq: 20 Mar 2025 14:24

Tgt Ion: 50 Resp: 657
Ion Ratio Lower Upper
50 100
52 31.1 26.2 39.2

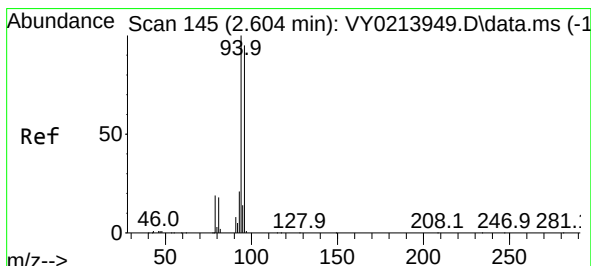
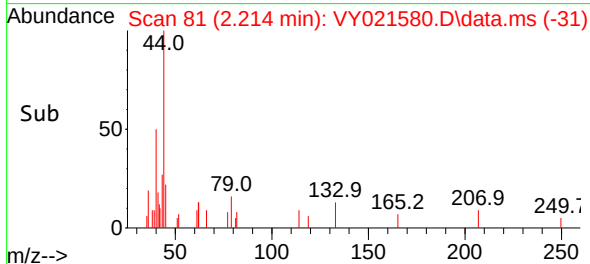
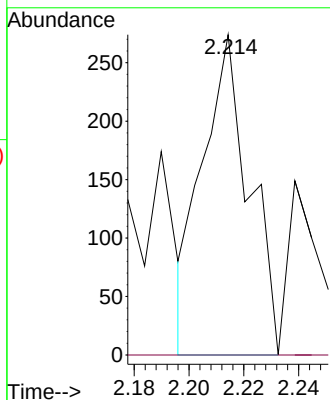
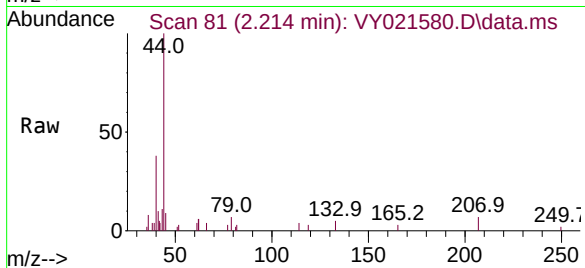




#4
 Vinyl Chloride
 Concen: 2.627 ug/l
 RT: 2.214 min Scan# 81
 Delta R.T. 0.006 min
 Lab File: VY021580.D
 Acq: 20 Mar 2025 14:24

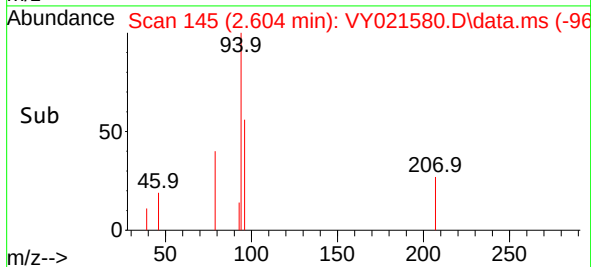
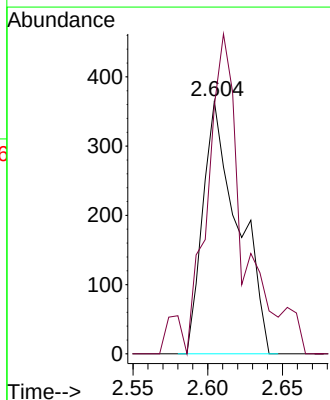
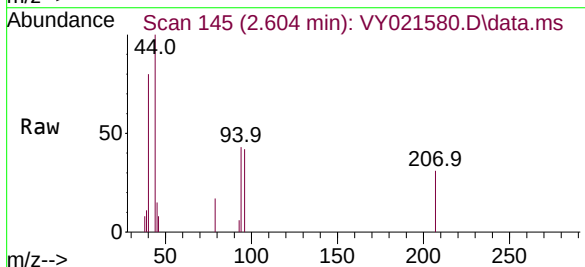
Instrument :
 MSVOA_Y
 ClientSampleId :
 RT4534

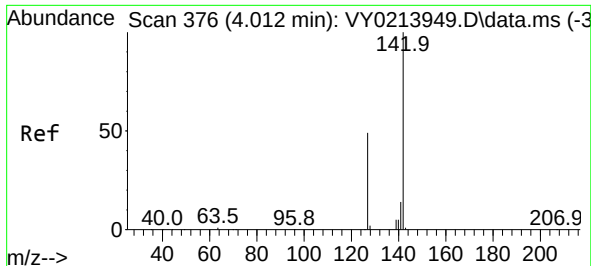
Tgt Ion: 62 Resp: 324
 Ion Ratio Lower Upper
 62 100
 64 0.0 26.2 39.2#



#5
 Bromomethane
 Concen: 6.685 ug/l
 RT: 2.604 min Scan# 145
 Delta R.T. 0.000 min
 Lab File: VY021580.D
 Acq: 20 Mar 2025 14:24

Tgt Ion: 94 Resp: 596
 Ion Ratio Lower Upper
 94 100
 96 83.6 76.3 114.5





#10

Methyl Iodide

Concen: 4.824 ug/l

RT: 3.994 min Scan# 31

Delta R.T. -0.018 min

Lab File: VY021580.D

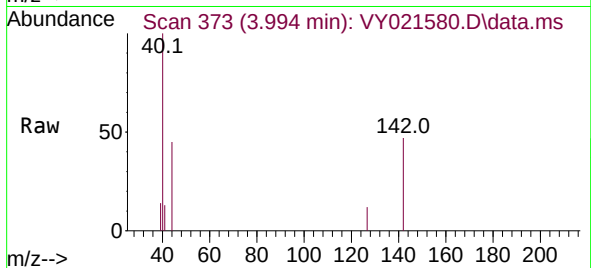
Acq: 20 Mar 2025 14:24

Instrument :

MSVOA_Y

ClientSampleId :

RT4534



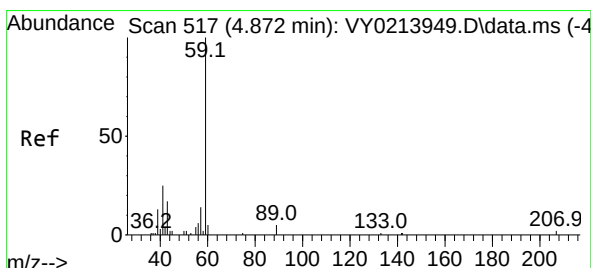
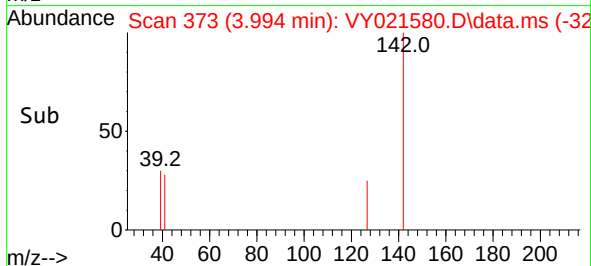
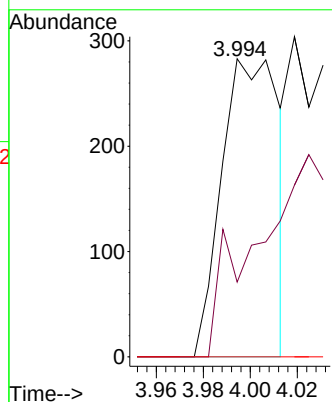
Tgt Ion:142 Resp: 482

Ion Ratio Lower Upper

142 100

127 0.0 39.1 58.7#

141 0.0 11.8 17.6#



#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.824 min Scan# 509

Delta R.T. -0.048 min

Lab File: VY021580.D

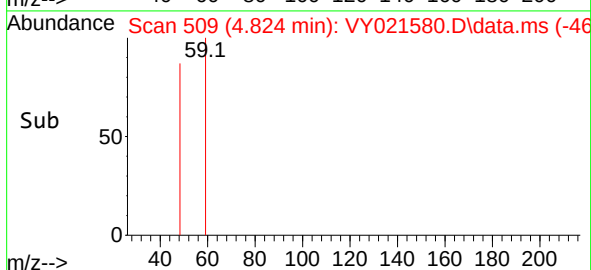
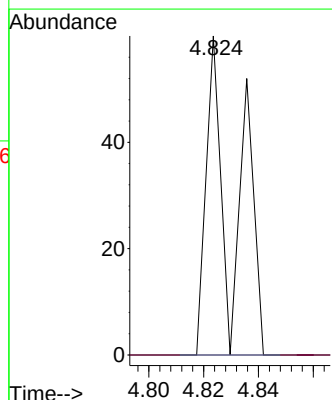
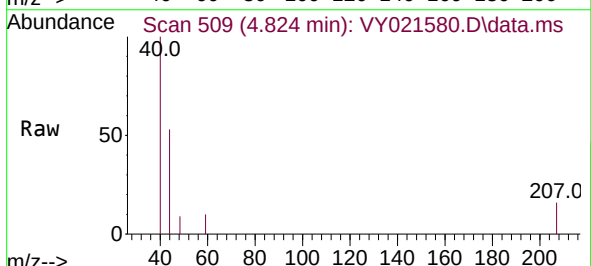
Acq: 20 Mar 2025 14:24

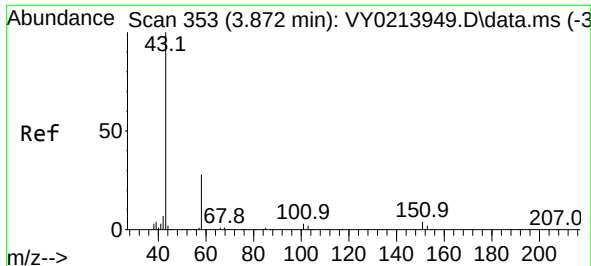
Tgt Ion: 59 Resp: 41

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#

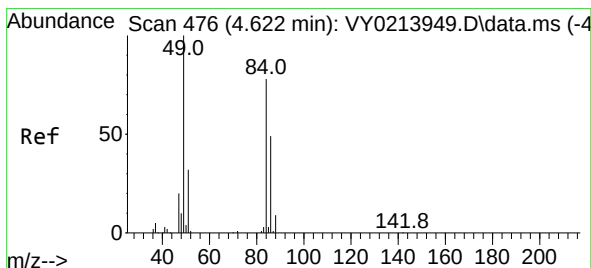
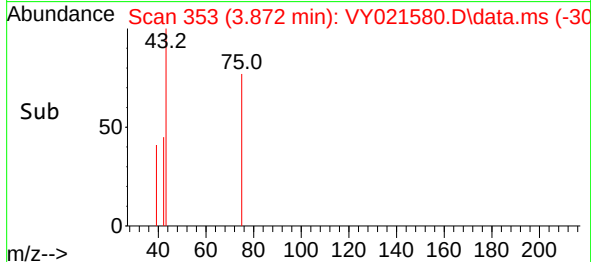
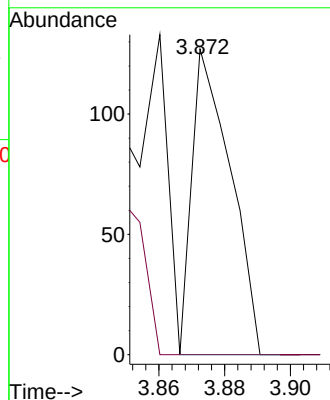
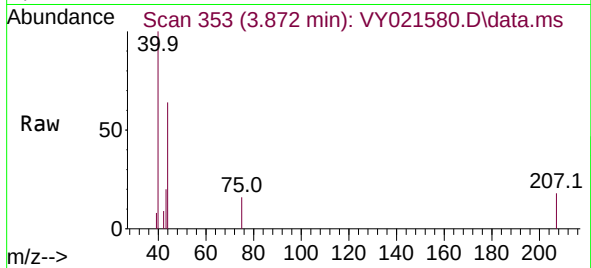




#16
Acetone
Concen: 5.171 ug/l
RT: 3.872 min Scan# 31
Delta R.T. 0.000 min
Lab File: VY021580.D
Acq: 20 Mar 2025 14:24

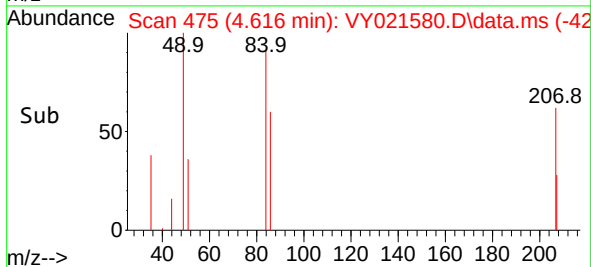
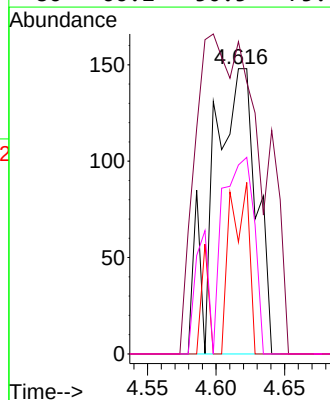
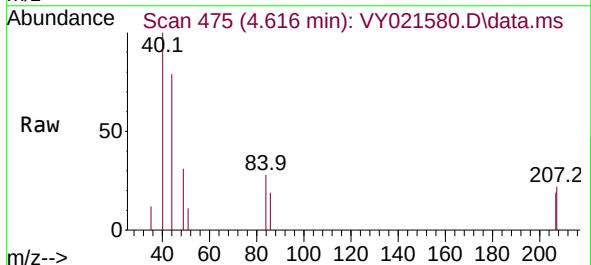
Instrument :
MSVOA_Y
ClientSampleId :
RT4534

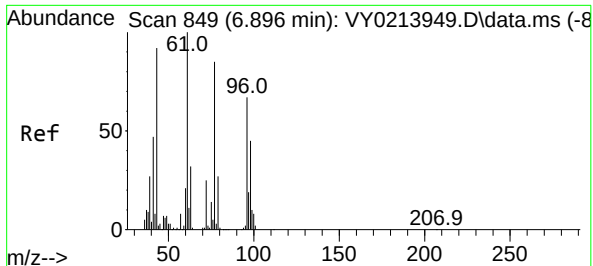
Tgt Ion: 43 Resp: 104
Ion Ratio Lower Upper
43 100
58 0.0 22.1 33.1#



#20
Methylene Chloride
Concen: 3.059 ug/l
RT: 4.616 min Scan# 475
Delta R.T. -0.006 min
Lab File: VY021580.D
Acq: 20 Mar 2025 14:24

Tgt Ion: 84 Resp: 323
Ion Ratio Lower Upper
84 100
49 109.5 102.0 153.0
51 39.2 33.0 49.6
86 66.2 50.5 75.7





#25

2-Butanone

Concen: 17.467 ug/l

RT: 6.896 min Scan# 849

Delta R.T. 0.000 min

Lab File: VY021580.D

Acq: 20 Mar 2025 14:24

Instrument :

MSVOA_Y

ClientSampleId :

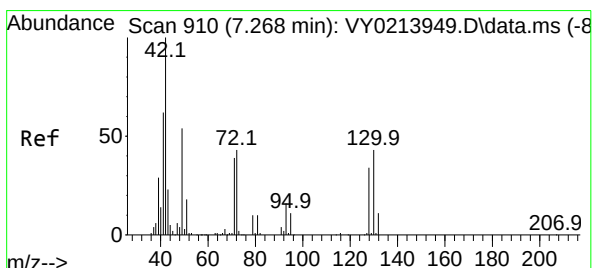
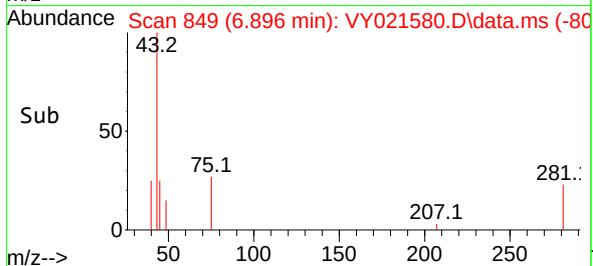
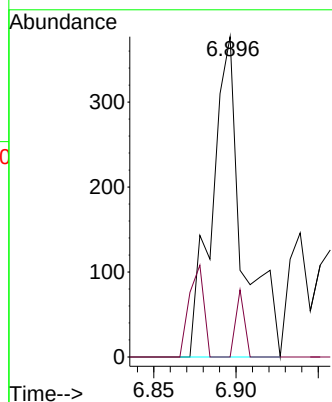
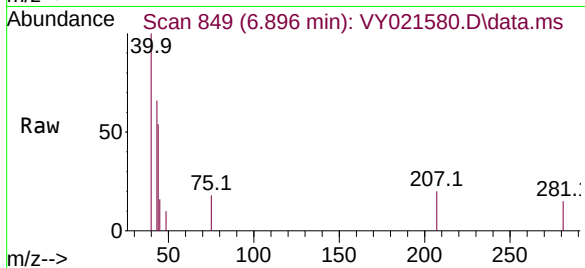
RT4534

Tgt Ion: 43 Resp: 486

Ion Ratio Lower Upper

43 100

72 0.0 21.4 32.0#



#29

Tetrahydrofuran

Concen: 1.397 ug/l

RT: 7.317 min Scan# 918

Delta R.T. 0.049 min

Lab File: VY021580.D

Acq: 20 Mar 2025 14:24

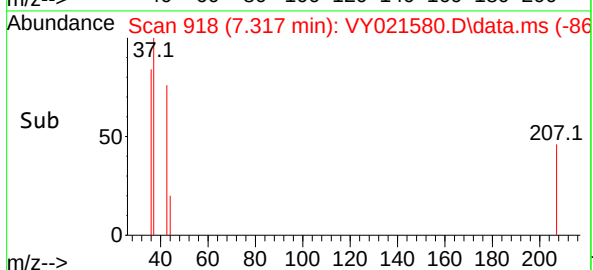
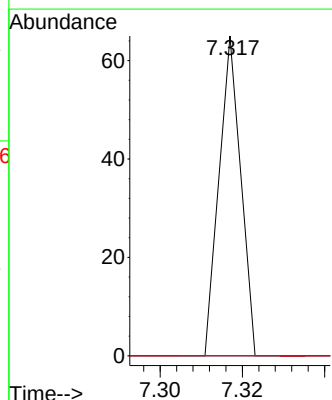
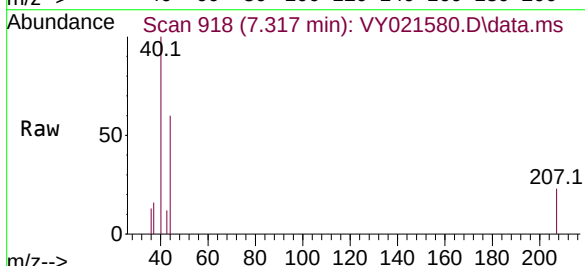
Tgt Ion: 42 Resp: 24

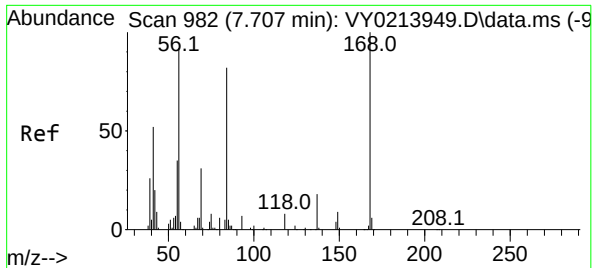
Ion Ratio Lower Upper

42 100

72 0.0 34.8 52.2#

71 0.0 32.6 48.8#

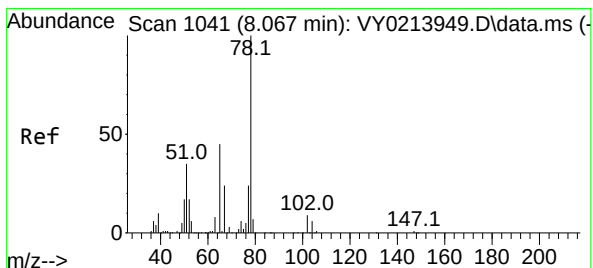
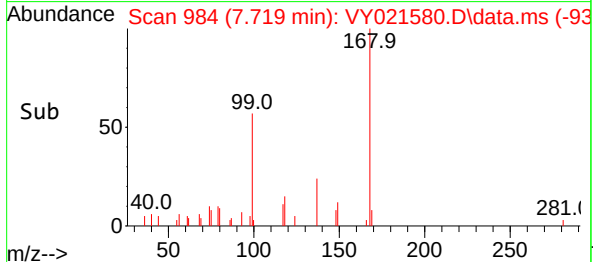
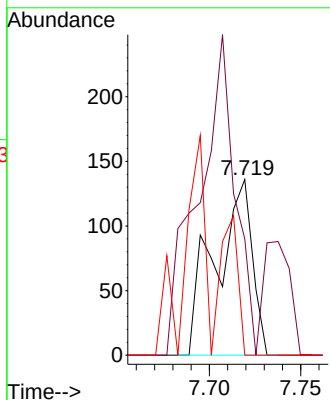
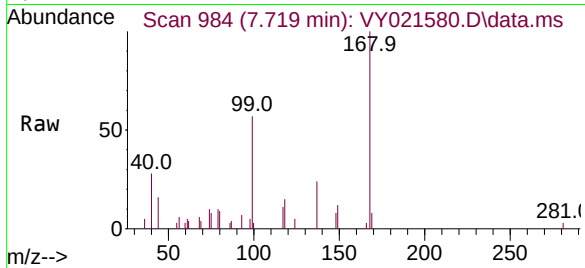




#31
Cyclohexane
Concen: 1.106 ug/l
RT: 7.719 min Scan# 91
Delta R.T. 0.012 min
Lab File: VY021580.D
Acq: 20 Mar 2025 14:24

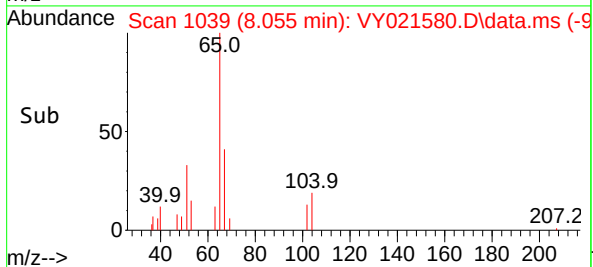
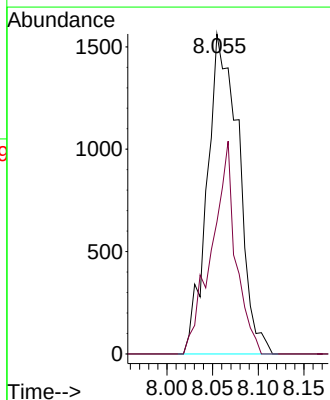
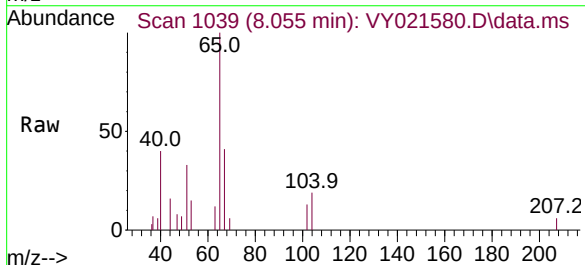
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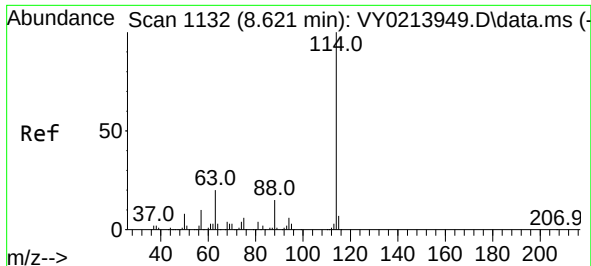
Tgt Ion: 56 Resp: 191
Ion Ratio Lower Upper
56 100
69 1.5 27.0 40.4#
84 0.0 71.1 106.7#



#33
1,2-Dichloroethane-d4
Concen: 40.513 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. -0.012 min
Lab File: VY021580.D
Acq: 20 Mar 2025 14:24

Tgt Ion: 65 Resp: 3736
Ion Ratio Lower Upper
65 100
67 51.4 0.0 102.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1132

Delta R.T. -0.006 min

Lab File: VY021580.D

Acq: 20 Mar 2025 14:24

Instrument :

MSVOA_Y

ClientSampleId :

RT4534

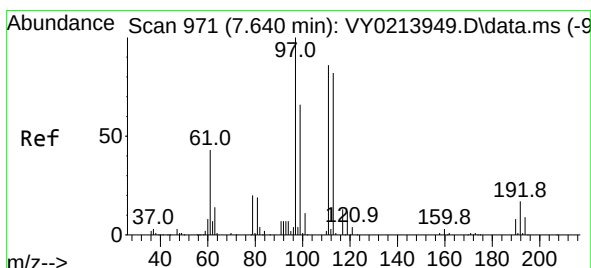
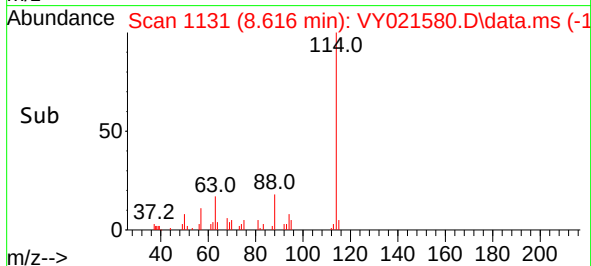
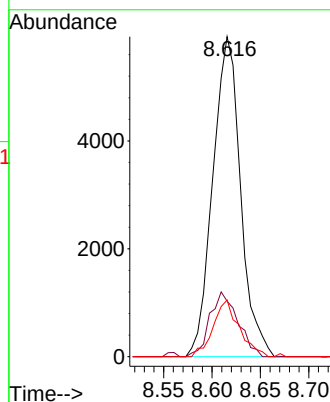
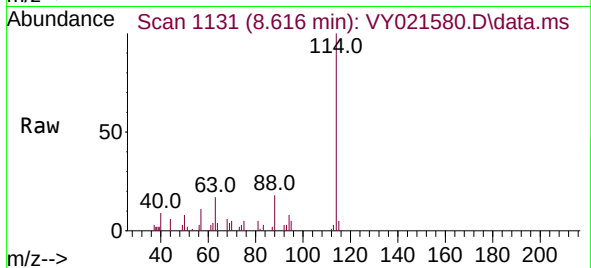
Tgt Ion:114 Resp: 11826

Ion Ratio Lower Upper

114 100

63 17.3 0.0 40.8

88 17.7 0.0 30.8



#35

Dibromofluoromethane

Concen: 47.495 ug/l

RT: 7.634 min Scan# 970

Delta R.T. -0.006 min

Lab File: VY021580.D

Acq: 20 Mar 2025 14:24

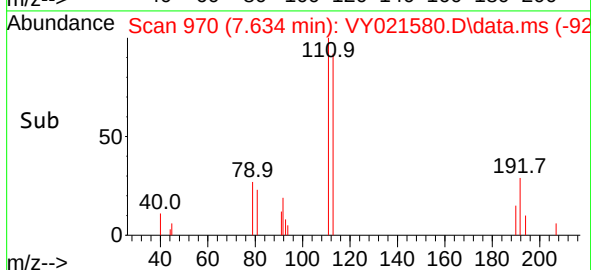
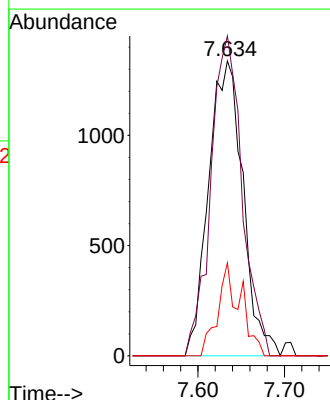
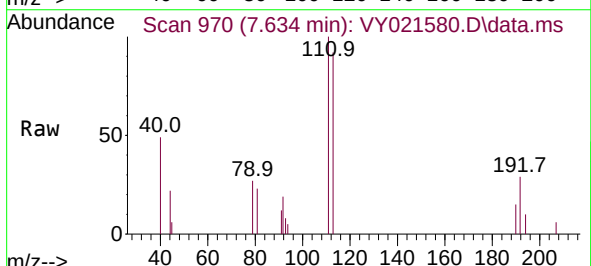
Tgt Ion:113 Resp: 3692

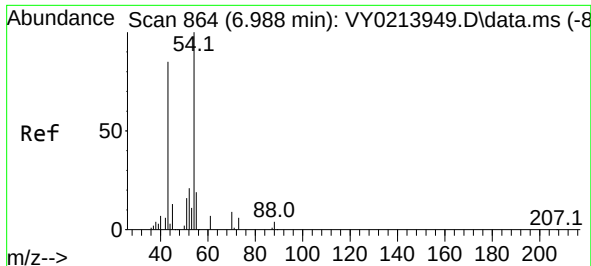
Ion Ratio Lower Upper

113 100

111 98.9 82.0 123.0

192 21.0 15.9 23.9





#37

Ethyl Acetate

Concen: 3.737 ug/l

RT: 6.939 min Scan# 81

Delta R.T. -0.049 min

Lab File: VY021580.D

Acq: 20 Mar 2025 14:24

Instrument :

MSVOA_Y

ClientSampleId :

RT4534

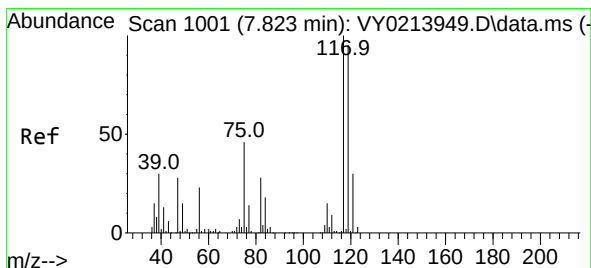
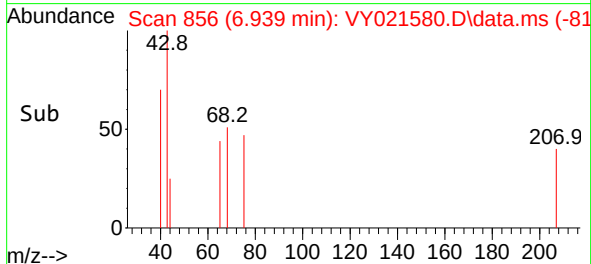
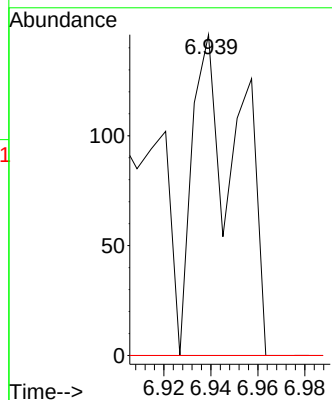
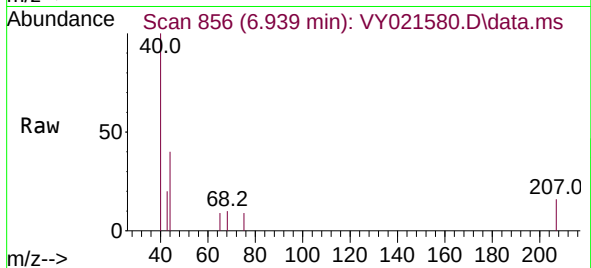
Tgt Ion: 43 Resp: 201

Ion Ratio Lower Upper

43 100

61 0.0 11.4 17.0#

70 0.0 8.2 12.2#



#38

Carbon Tetrachloride

Concen: 5.931 ug/l

RT: 7.713 min Scan# 983

Delta R.T. -0.109 min

Lab File: VY021580.D

Acq: 20 Mar 2025 14:24

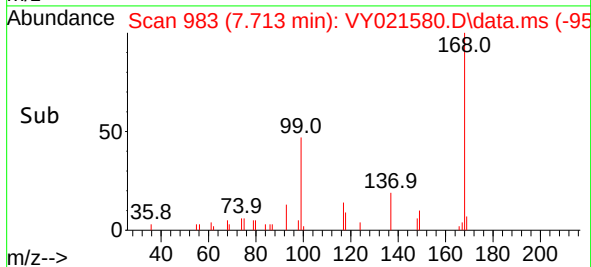
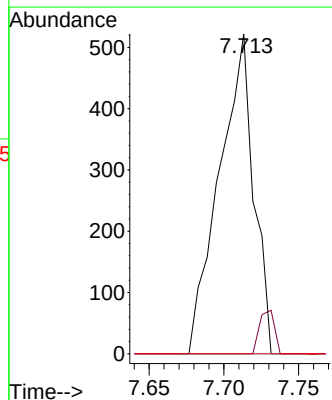
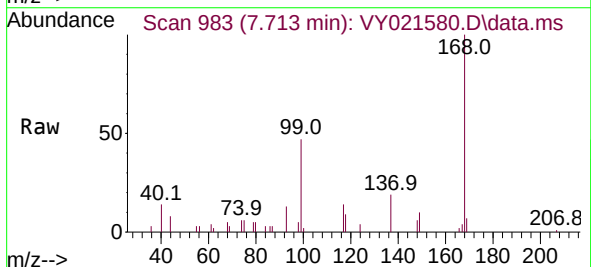
Tgt Ion: 117 Resp: 830

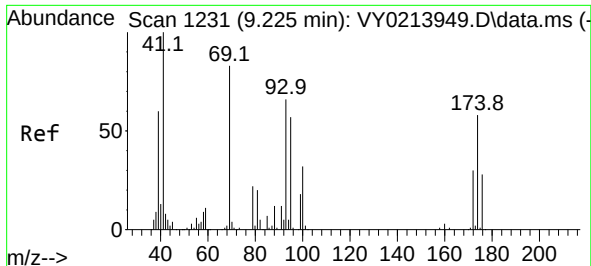
Ion Ratio Lower Upper

117 100

119 0.0 75.8 113.8#

121 0.0 23.9 35.9#





#48

Methyl methacrylate

Concen: 1.669 ug/l

RT: 9.207 min Scan# 1198

Delta R.T. -0.018 min

Lab File: VY021580.D

Acq: 20 Mar 2025 14:24

Instrument :

MSVOA_Y

ClientSampleId :

RT4534

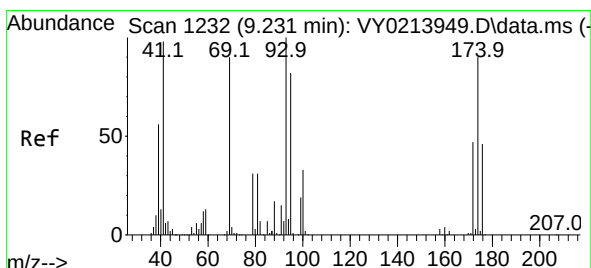
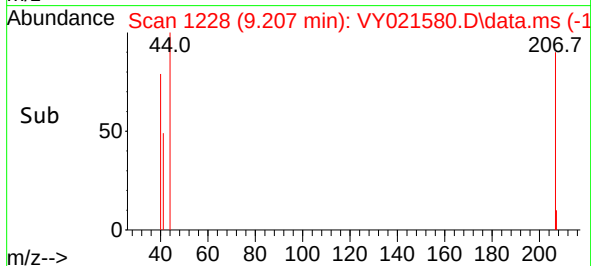
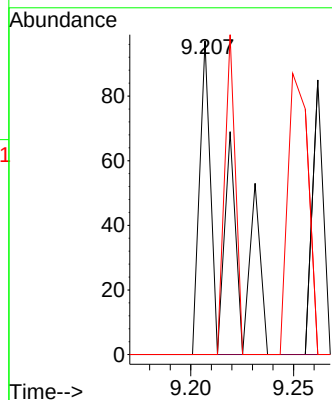
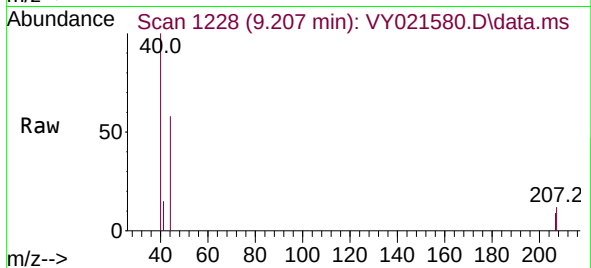
Tgt Ion: 41 Resp: 80

Ion Ratio Lower Upper

41 100

69 0.0 67.8 101.8#

39 45.0 46.4 69.6#



#49

1,4-Dioxane

Concen: 90.149 ug/l

RT: 9.024 min Scan# 1198

Delta R.T. -0.207 min

Lab File: VY021580.D

Acq: 20 Mar 2025 14:24

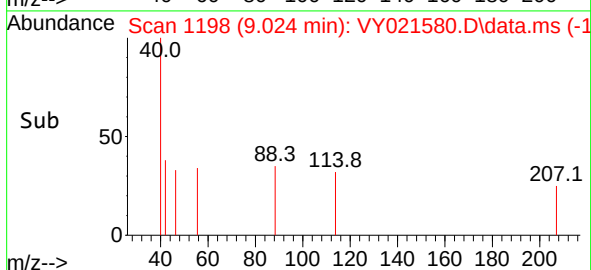
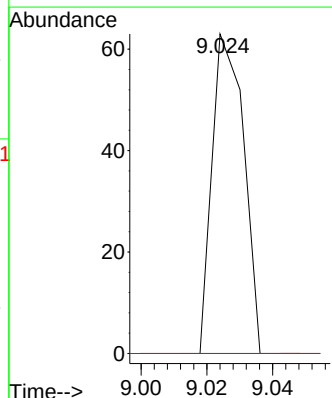
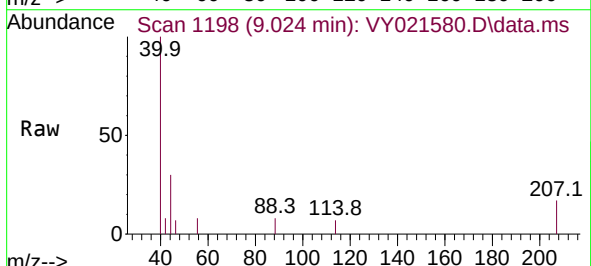
Tgt Ion: 88 Resp: 42

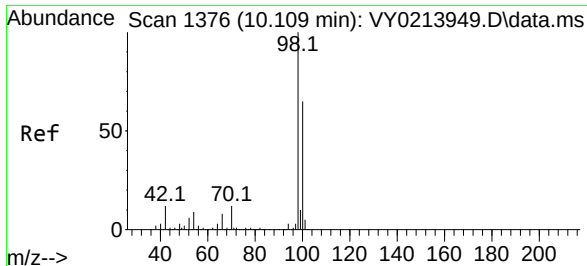
Ion Ratio Lower Upper

88 100

43 0.0 25.0 37.4#

58 0.0 58.4 87.6#

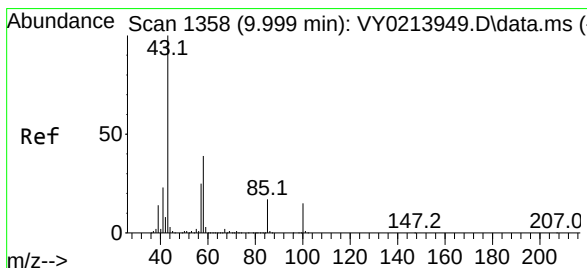
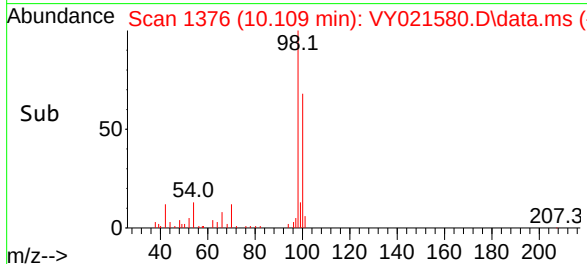
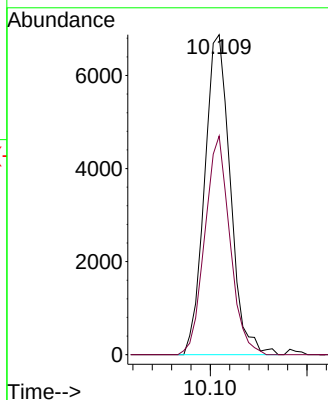
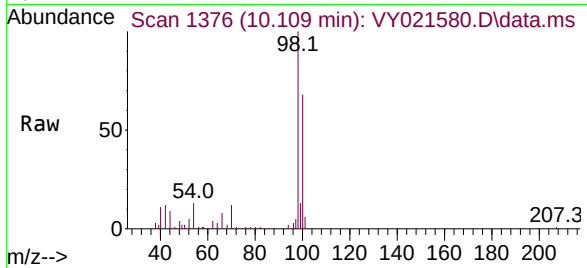




#50
Toluene-d8
Concen: 43.115 ug/l
RT: 10.109 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY021580.D
Acq: 20 Mar 2025 14:24

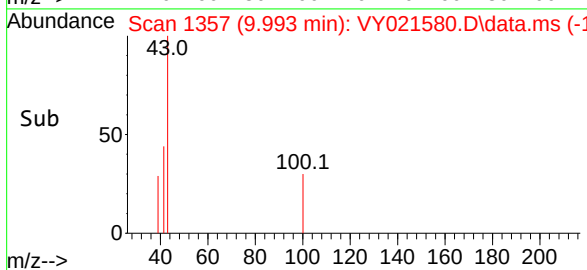
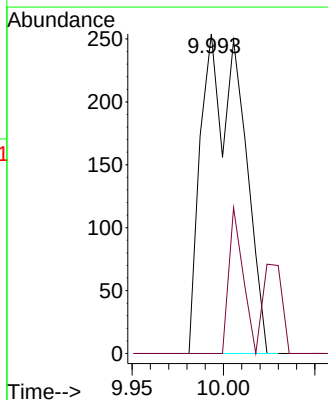
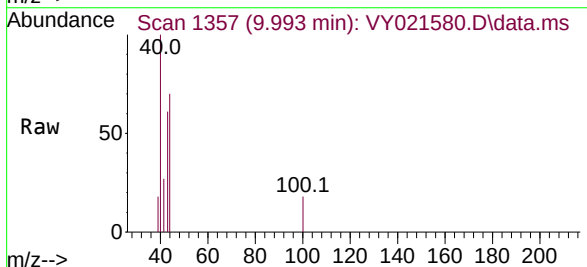
Instrument :
MSVOA_Y
ClientSampleId :
RT4534

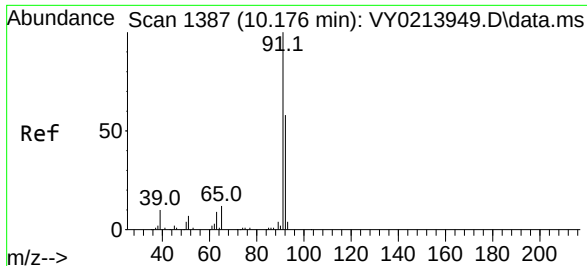
Tgt Ion: 98 Resp: 12690
Ion Ratio Lower Upper
98 100
100 66.6 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 7.351 ug/l
RT: 9.993 min Scan# 1357
Delta R.T. -0.006 min
Lab File: VY021580.D
Acq: 20 Mar 2025 14:24

Tgt Ion: 43 Resp: 396
Ion Ratio Lower Upper
43 100
58 15.7 31.4 47.2#

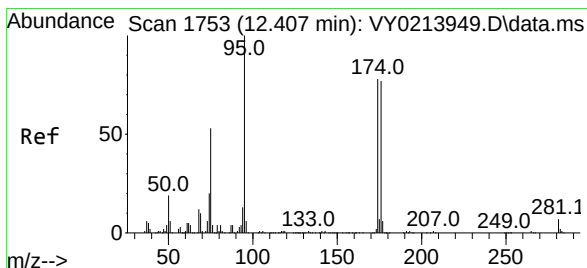
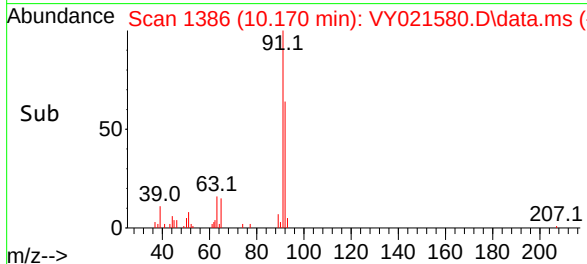
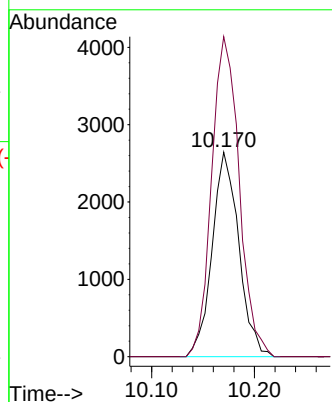
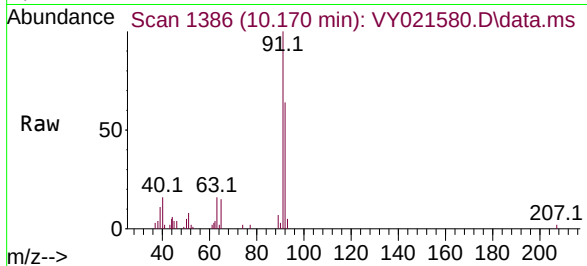




#52
Toluene
Concen: 21.059 ug/l
RT: 10.170 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY021580.D
Acq: 20 Mar 2025 14:24

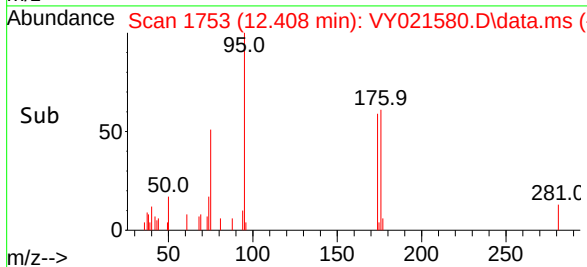
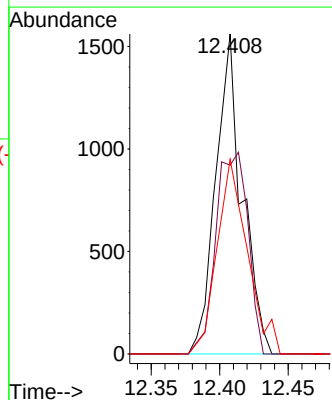
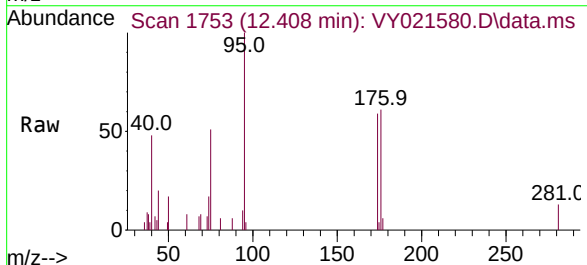
Instrument :
MSVOA_Y
ClientSampleId :
RT4534

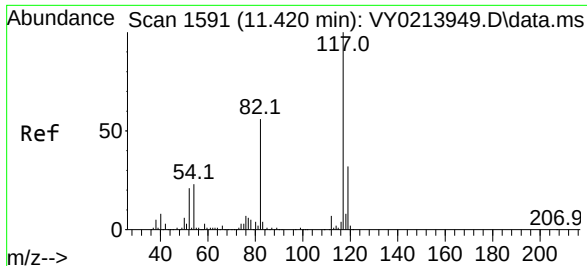
Tgt Ion: 92 Resp: 4759
Ion Ratio Lower Upper
92 100
91 161.9 138.2 207.2



#62
4-Bromofluorobenzene
Concen: 20.915 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021580.D
Acq: 20 Mar 2025 14:24

Tgt Ion: 95 Resp: 2094
Ion Ratio Lower Upper
95 100
174 76.6 0.0 165.0
176 70.0 0.0 160.0

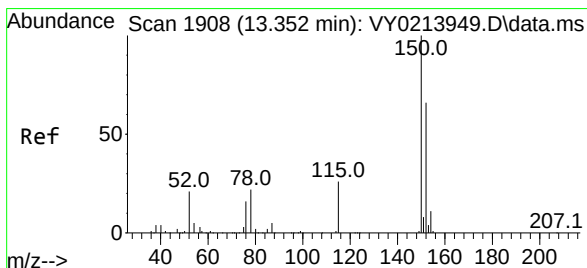
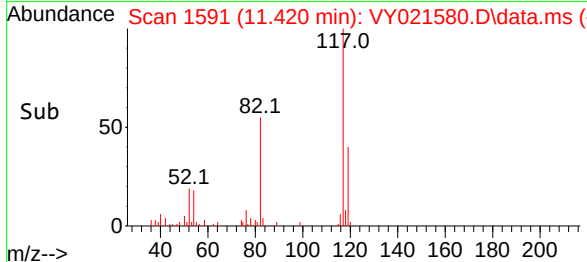
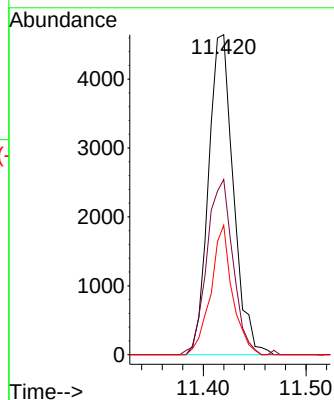
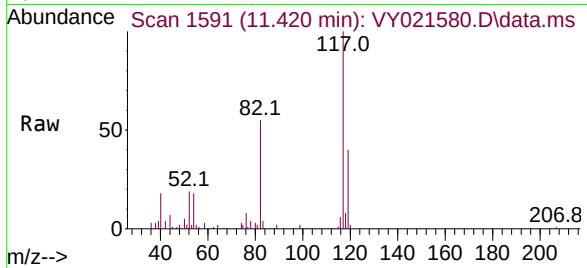




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 117
Delta R.T. 0.000 min
Lab File: VY021580.D
Acq: 20 Mar 2025 14:24

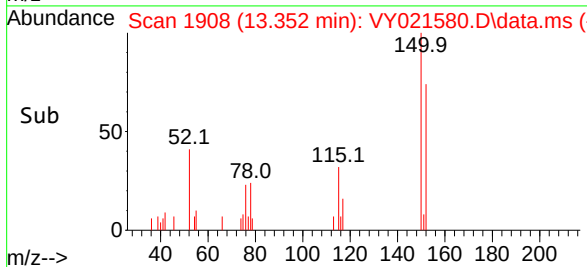
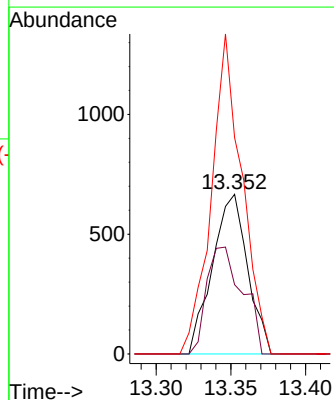
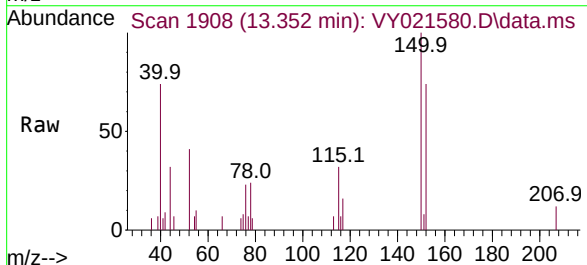
Instrument :
MSVOA_Y
ClientSampleId :
RT4534

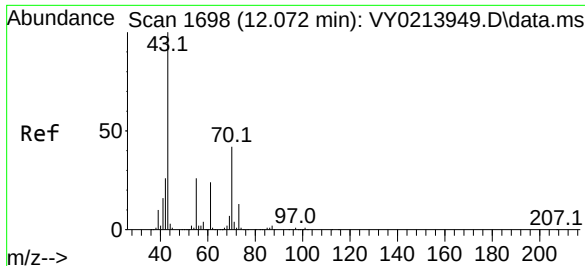
Tgt Ion:117 Resp: 7821
Ion Ratio Lower Upper
117 100
82 54.7 44.6 67.0
119 40.5 25.4 38.0#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.000 min
Lab File: VY021580.D
Acq: 20 Mar 2025 14:24

Tgt Ion:152 Resp: 1092
Ion Ratio Lower Upper
152 100
115 68.4 29.0 87.0
150 174.5 0.0 347.2

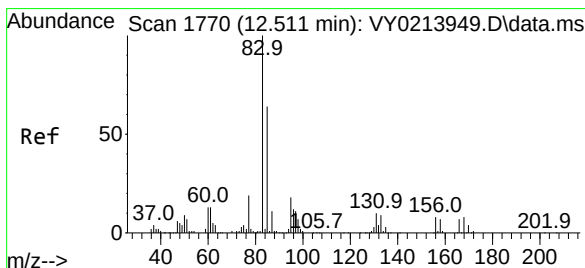
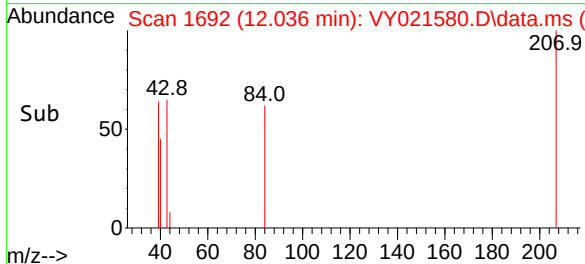
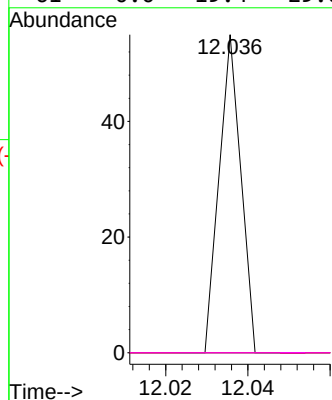
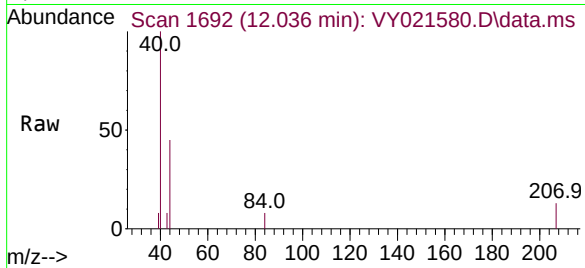




#74
N-amy1 acetate
Concen: 1.071 ug/l
RT: 12.036 min Scan# 1738
Delta R.T. -0.036 min
Lab File: VY021580.D
Acq: 20 Mar 2025 14:24

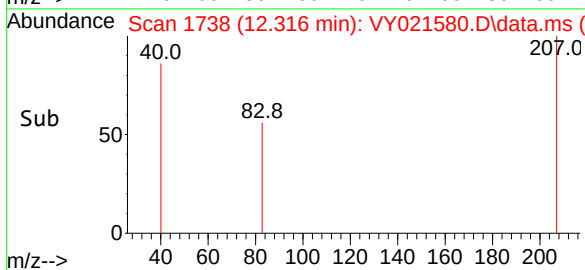
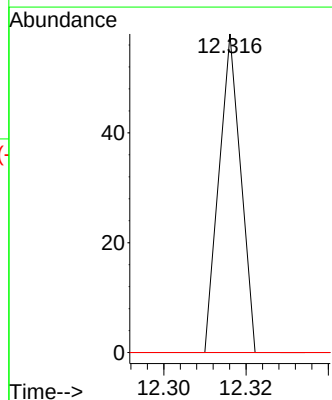
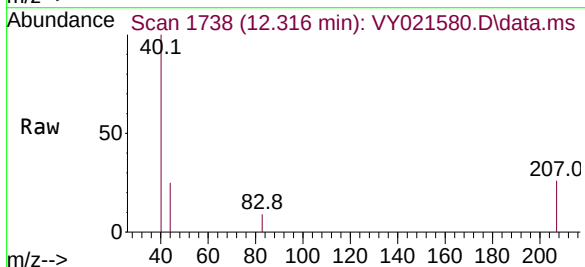
Instrument :
MSVOA_Y
ClientSampleId :
RT4534

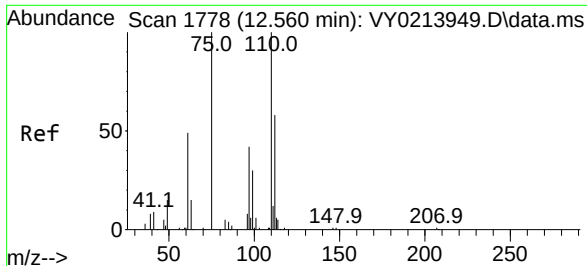
Tgt Ion:	43	Resp:	20
Ion	Ratio	Lower	Upper
43	100		
70	0.0	34.6	51.8#
55	0.0	21.1	31.7#
61	0.0	19.4	29.0#



#75
1,1,2,2-Tetrachloroethane
Concen: 1.383 ug/l
RT: 12.316 min Scan# 1738
Delta R.T. -0.195 min
Lab File: VY021580.D
Acq: 20 Mar 2025 14:24

Tgt Ion:	83	Resp:	21
Ion	Ratio	Lower	Upper
83	100		
131	0.0	5.3	16.1#
85	0.0	31.9	95.5#

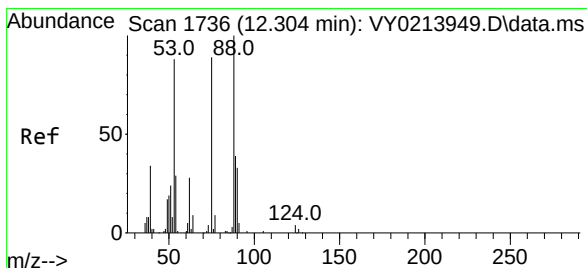
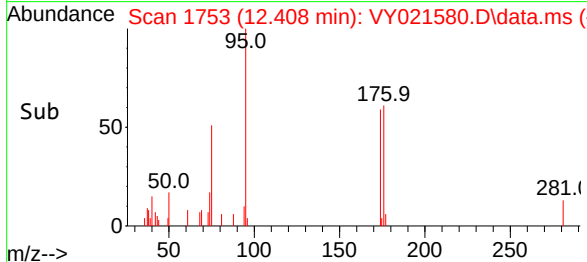
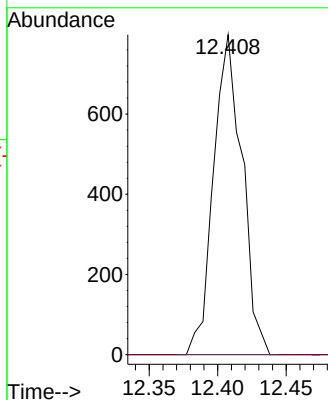
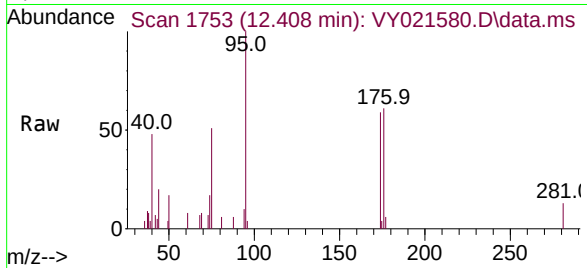




#76
 1,2,3-Trichloropropane
 Concen: 105.417 ug/l
 RT: 12.408 min Scan# 1753
 Delta R.T. -0.152 min
 Lab File: VY021580.D
 Acq: 20 Mar 2025 14:24

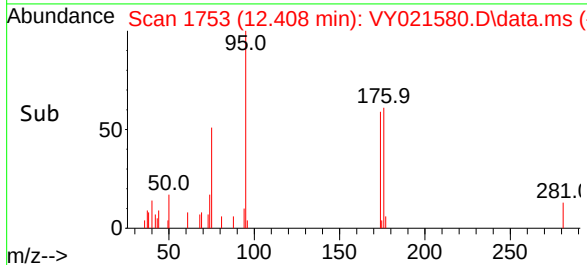
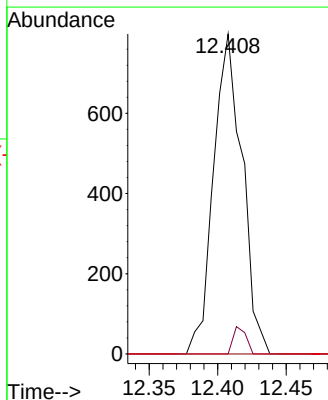
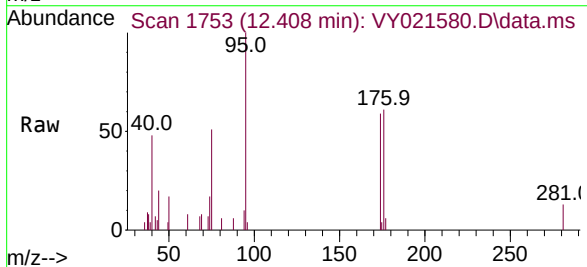
Instrument :
 MSVOA_Y
 ClientSampleId :
 RT4534

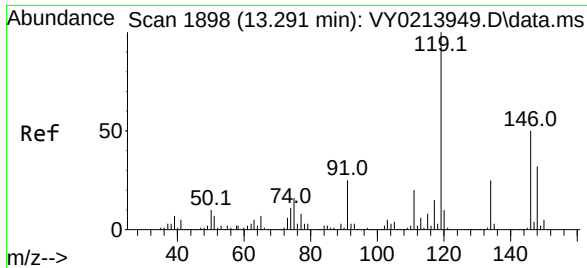
Tgt Ion: 75 Resp: 1160
 Ion Ratio Lower Upper
 75 100
 77 0.0 0.0 0.0



#81
 trans-1,4-Dichloro-2-butene
 Concen: 239.646 ug/l
 RT: 12.408 min Scan# 1753
 Delta R.T. 0.104 min
 Lab File: VY021580.D
 Acq: 20 Mar 2025 14:24

Tgt Ion: 75 Resp: 1160
 Ion Ratio Lower Upper
 75 100
 53 3.8 81.0 121.4#
 89 0.0 36.9 55.3#

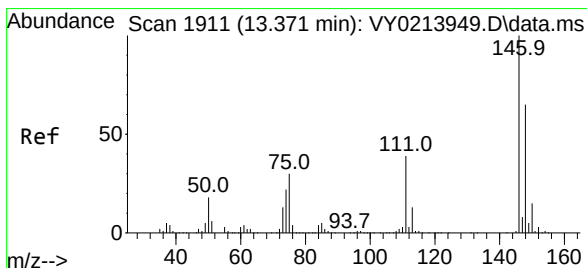
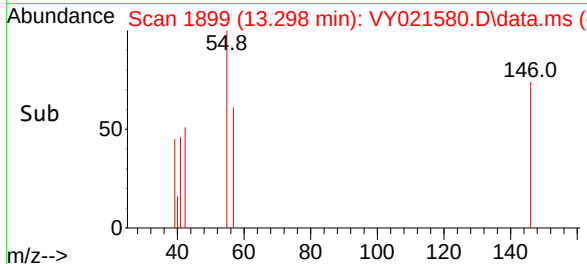
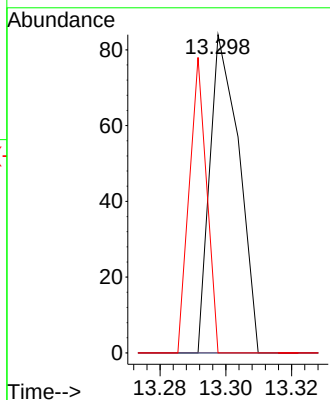
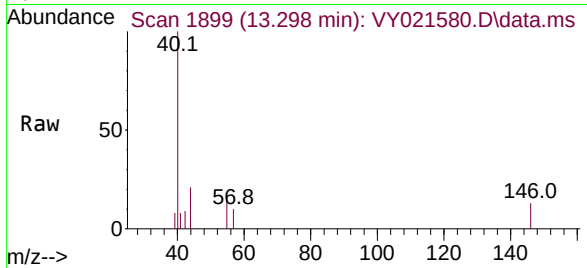




#87
1,3-Dichlorobenzene
Concen: 1.298 ug/l
RT: 13.298 min Scan# 1899
Delta R.T. 0.006 min
Lab File: VY021580.D
Acq: 20 Mar 2025 14:24

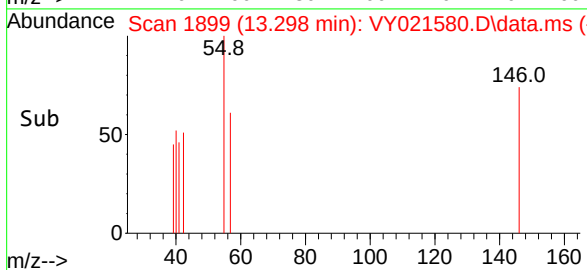
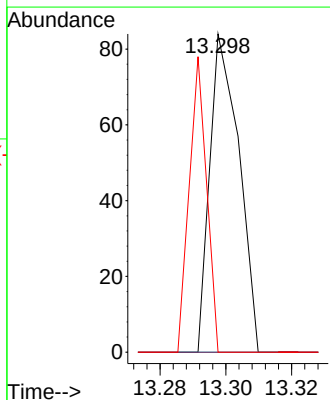
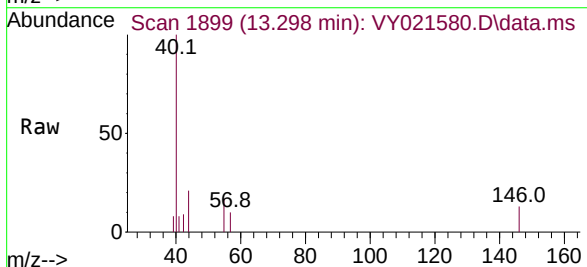
Instrument :
MSVOA_Y
ClientSampleId :
RT4534

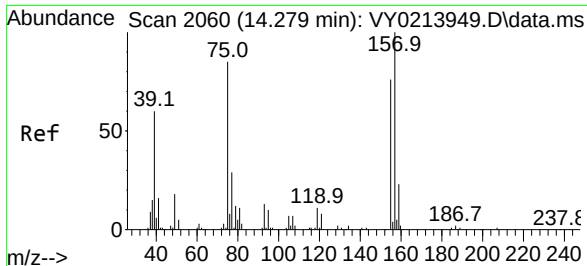
Tgt Ion:146 Resp: 52
Ion Ratio Lower Upper
146 100
111 0.0 20.0 60.0#
148 55.8 31.8 95.3



#88
1,4-Dichlorobenzene
Concen: 1.327 ug/l
RT: 13.298 min Scan# 1899
Delta R.T. -0.073 min
Lab File: VY021580.D
Acq: 20 Mar 2025 14:24

Tgt Ion:146 Resp: 52
Ion Ratio Lower Upper
146 100
111 0.0 19.6 58.8#
148 55.8 32.3 96.8

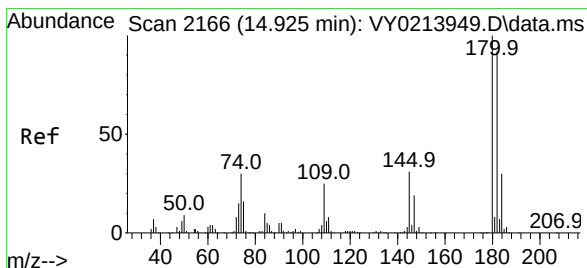
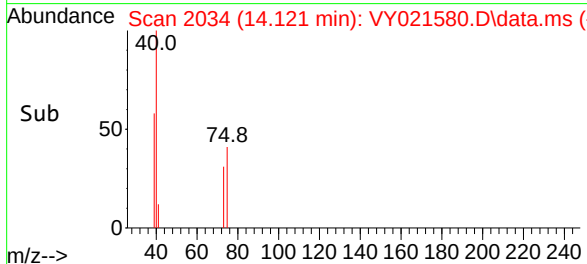
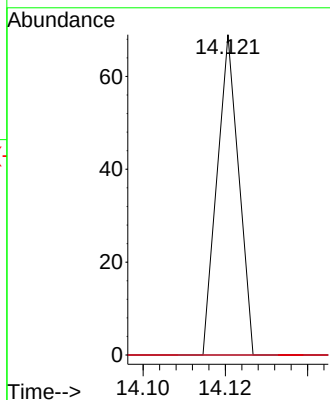
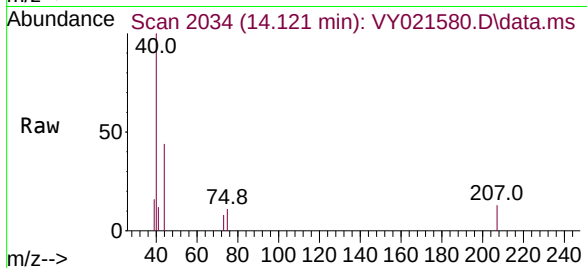




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 10.995 ug/l
 RT: 14.121 min Scan# 2060
 Delta R.T. -0.158 min
 Lab File: VY021580.D
 Acq: 20 Mar 2025 14:24

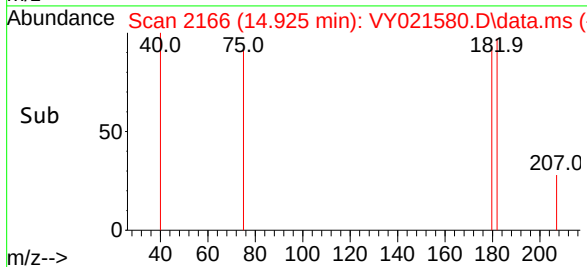
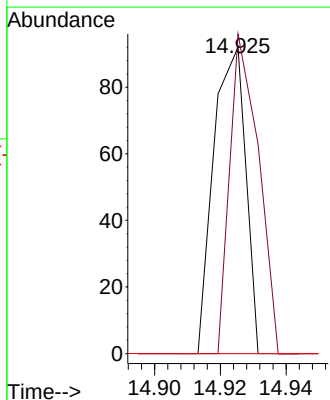
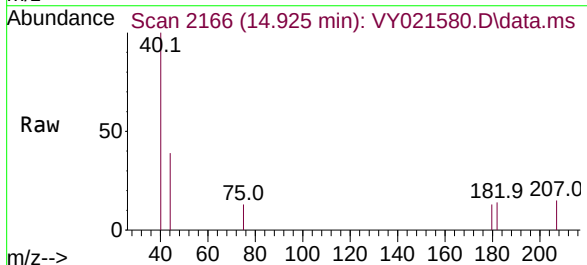
Instrument :
 MSVOA_Y
 ClientSampleId :
 RT4534

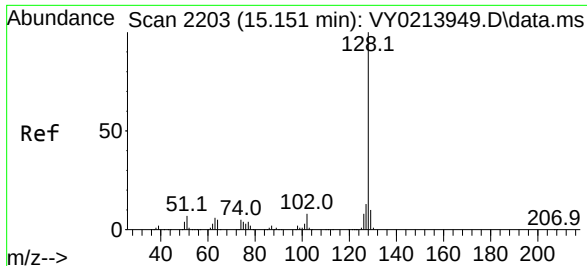
Tgt Ion: 75 Resp: 25
 Ion Ratio Lower Upper
 75 100
 155 0.0 43.5 130.5#
 157 0.0 54.4 163.2#



#93
 1,2,4-Trichlorobenzene
 Concen: 3.306 ug/l
 RT: 14.925 min Scan# 2166
 Delta R.T. 0.000 min
 Lab File: VY021580.D
 Acq: 20 Mar 2025 14:24

Tgt Ion:180 Resp: 62
 Ion Ratio Lower Upper
 180 100
 182 93.5 46.7 140.0
 145 0.0 15.6 46.8#

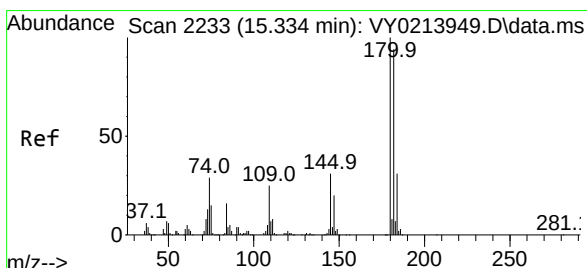
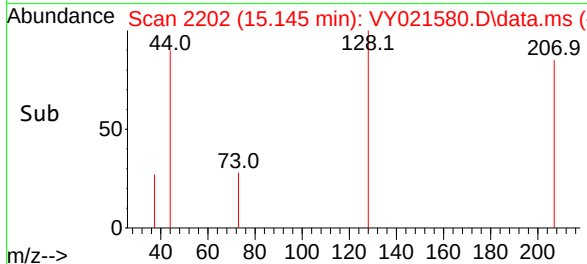
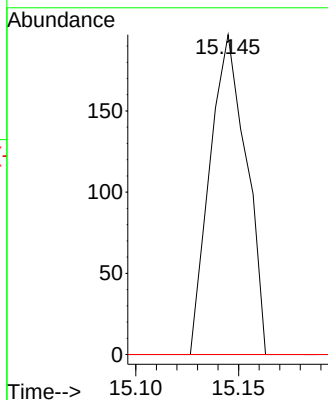
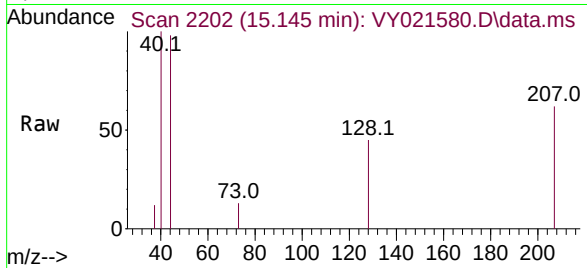




#95
Naphthalene
Concen: 9.500 ug/l
RT: 15.145 min Scan# 211
Delta R.T. -0.006 min
Lab File: VY021580.D
Acq: 20 Mar 2025 14:24

Instrument :
MSVOA_Y
ClientSampleId :
RT4534

Tgt Ion:128 Resp: 242
Ion Ratio Lower Upper
128 100
127 0.0 10.6 15.8#
129 0.0 8.6 13.0#



#96
1,2,3-Trichlorobenzene
Concen: 1.458 ug/l
RT: 15.334 min Scan# 2233
Delta R.T. 0.000 min
Lab File: VY021580.D
Acq: 20 Mar 2025 14:24

Tgt Ion:180 Resp: 23
Ion Ratio Lower Upper
180 100
182 0.0 47.2 141.6#
145 113.0 16.4 49.1#

