

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070225\
 Data File : VY022920.D
 Acq On : 02 Jul 2025 18:17
 Operator : SY/MD
 Sample : Q2473-04
 Misc : 10.71g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 PIT#4

Quant Time: Jul 03 02:26:35 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)

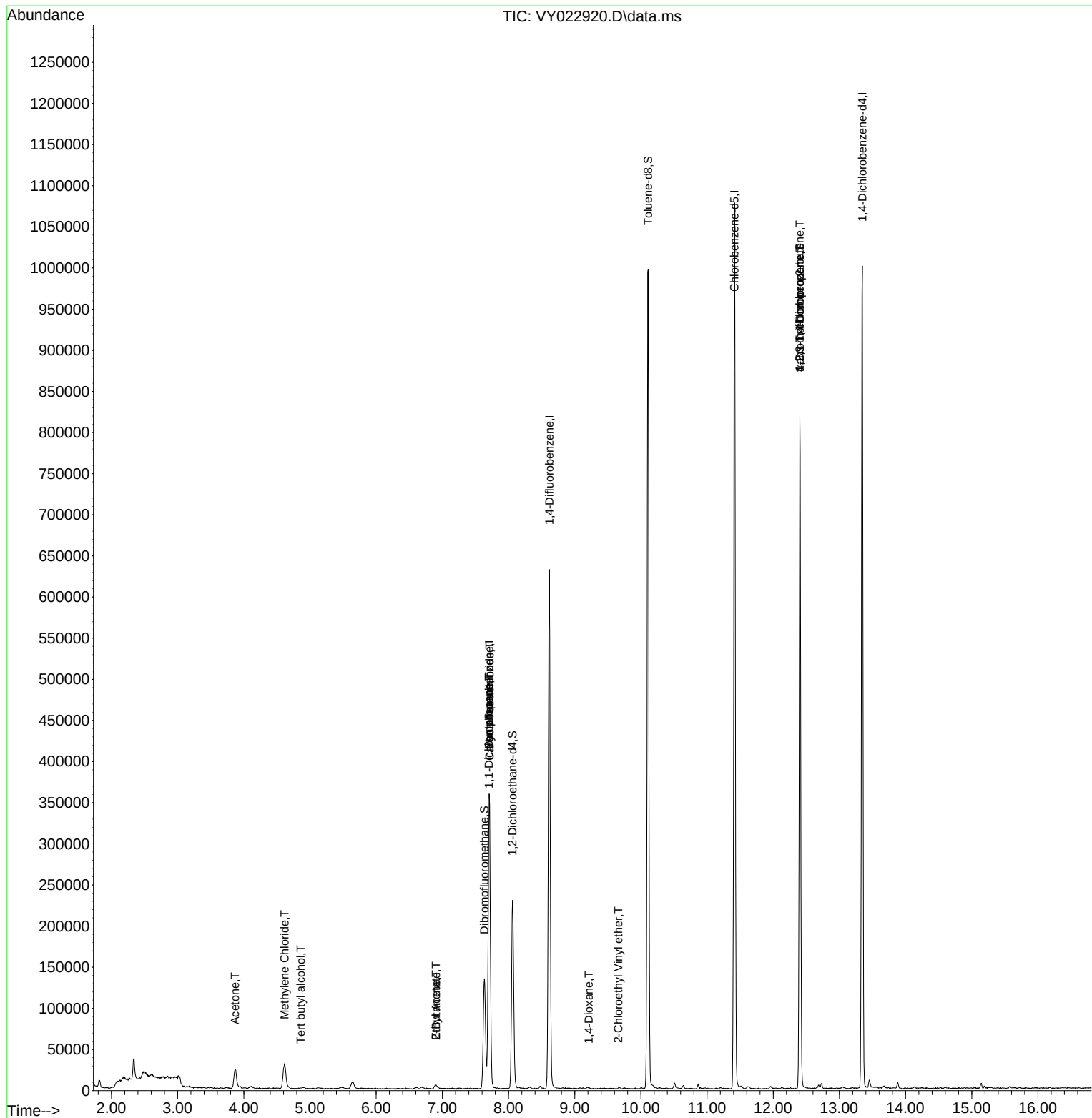
Internal Standards						
1) Pentafluorobenzene	7.707	168	269260	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	521273	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	540209	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	244944	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	180615	60.101	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 120.200%			
35) Dibromofluoromethane	7.634	113	96152	30.331	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 60.660%			
50) Toluene-d8	10.109	98	647893	51.504	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 103.000%			
62) 4-Bromofluorobenzene	12.401	95	240320	59.428	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 118.860%			
Target Compounds						Qvalue
11) Tert butyl alcohol	4.860	59	214	1.071	ug/l #	79
16) Acetone	3.866	43	43866	77.228	ug/l	99
20) Methylene Chloride	4.616	84	21418	5.971	ug/l	94
25) 2-Butanone	6.902	43	7198	8.707	ug/l	100
31) Cyclohexane	7.707	56	6853	1.328	ug/l #	19
36) 1,1-Dichloropropene	7.701	75	23252	4.839	ug/l #	49
37) Ethyl Acetate	6.902	43	7198	3.471	ug/l #	69
38) Carbon Tetrachloride	7.713	117	28390	5.600	ug/l #	18
49) 1,4-Dioxane	9.213	88	49	2.113	ug/l #	1
58) 2-Chloroethyl Vinyl ether	9.658	63	21	15.666	ug/l #	48
76) 1,2,3-Trichloropropane	12.401	75	133479	53.377	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.401	75	133479	134.852	ug/l #	10

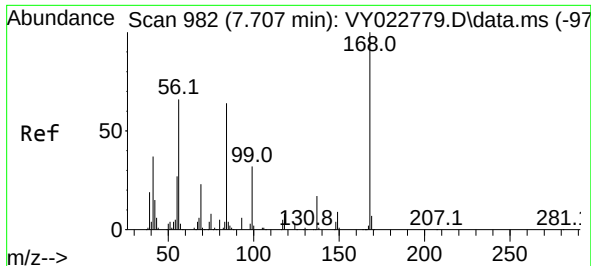
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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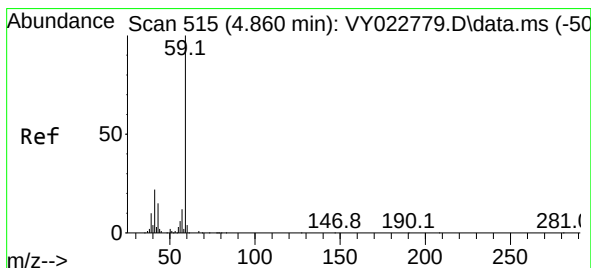
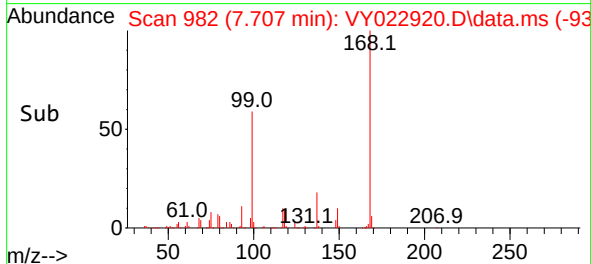
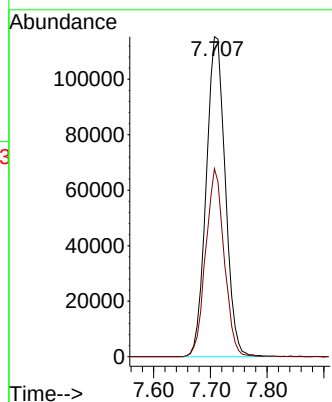
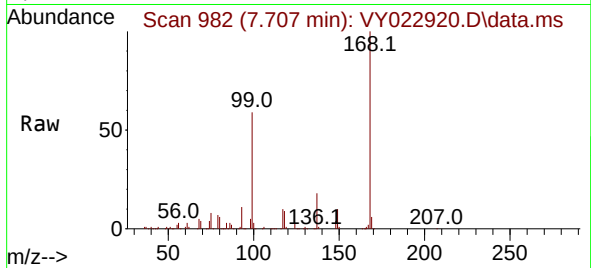




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY022920.D
Acq: 02 Jul 2025 18:17

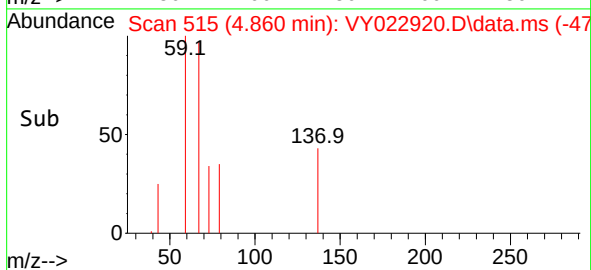
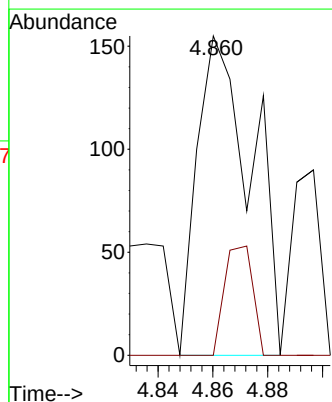
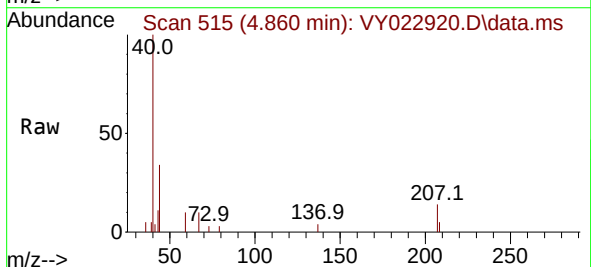
Instrument :
MSVOA_Y
ClientSampleId :
PIT#4

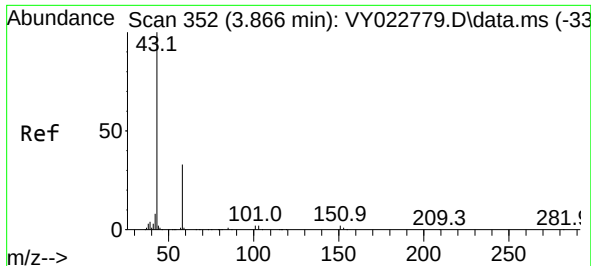
Tgt Ion:168 Resp: 269260
Ion Ratio Lower Upper
168 100
99 58.8 44.3 66.5



#11
Tert butyl alcohol
Concen: 1.071 ug/l
RT: 4.860 min Scan# 515
Delta R.T. -0.025 min
Lab File: VY022920.D
Acq: 02 Jul 2025 18:17

Tgt Ion: 59 Resp: 214
Ion Ratio Lower Upper
59 100
57 17.8 8.0 12.0#

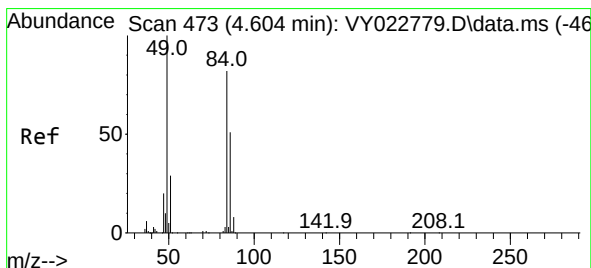
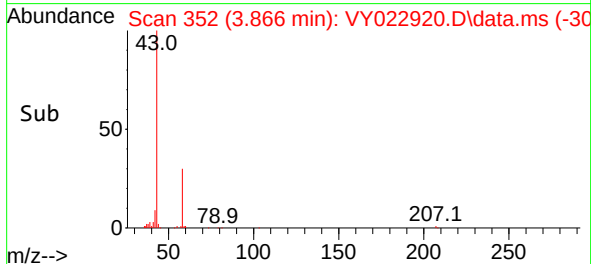
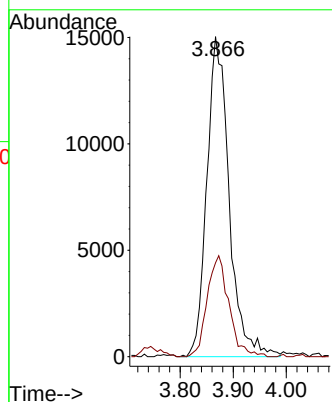
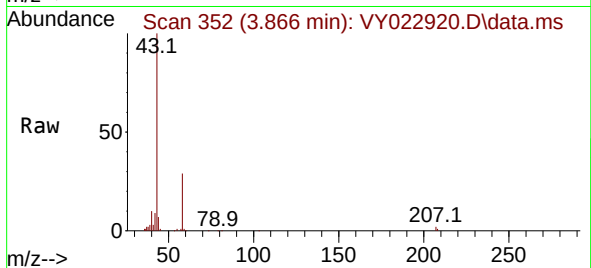




#16
Acetone
Concen: 77.228 ug/l
RT: 3.866 min Scan# 311
Delta R.T. -0.012 min
Lab File: VY022920.D
Acq: 02 Jul 2025 18:17

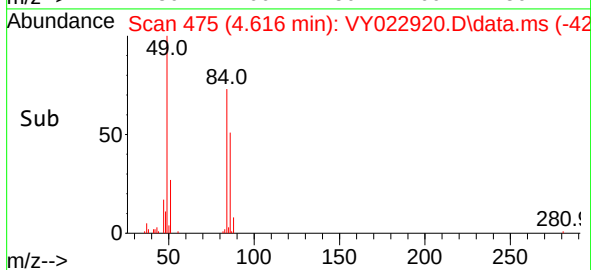
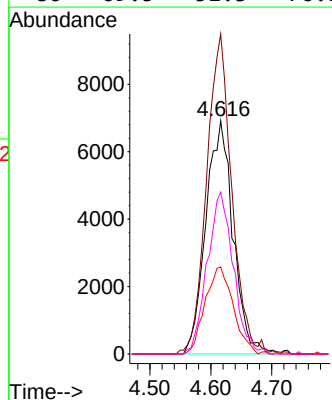
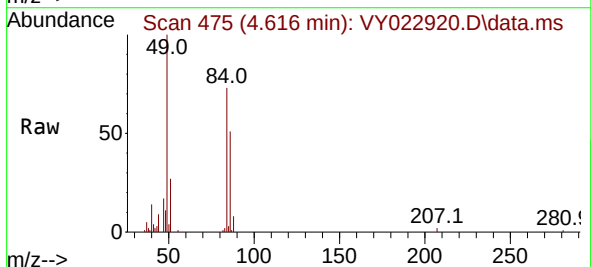
Instrument :
MSVOA_Y
ClientSampleId :
PIT#4

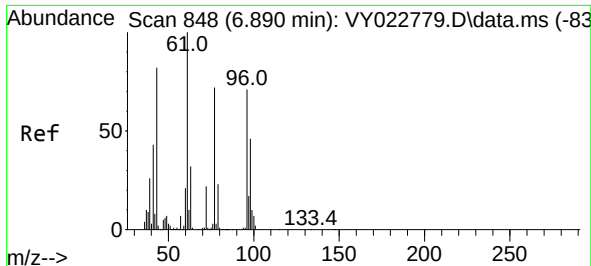
Tgt Ion: 43 Resp: 43866
Ion Ratio Lower Upper
43 100
58 29.4 24.0 36.0



#20
Methylene Chloride
Concen: 5.971 ug/l
RT: 4.616 min Scan# 475
Delta R.T. -0.006 min
Lab File: VY022920.D
Acq: 02 Jul 2025 18:17

Tgt Ion: 84 Resp: 21418
Ion Ratio Lower Upper
84 100
49 136.6 101.9 152.9
51 37.4 29.8 44.8
86 69.5 51.3 76.9





#25

2-Butanone

Concen: 8.707 ug/l

RT: 6.902 min Scan# 848

Delta R.T. -0.000 min

Lab File: VY022920.D

Acq: 02 Jul 2025 18:17

Instrument :

MSVOA_Y

ClientSampleId :

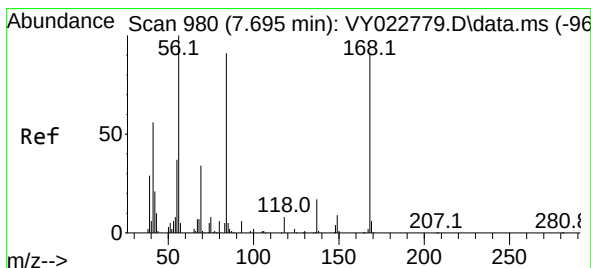
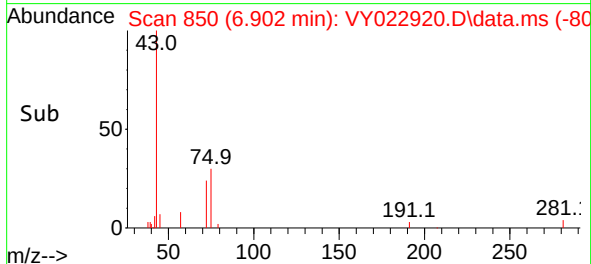
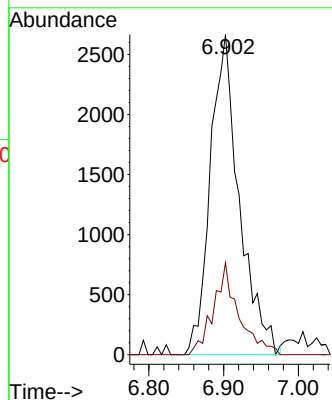
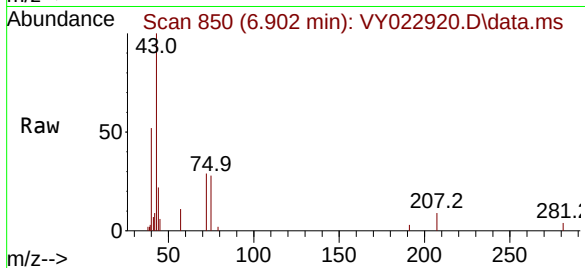
PIT#4

Tgt Ion: 43 Resp: 7198

Ion Ratio Lower Upper

43 100

72 28.7 22.9 34.3



#31

Cyclohexane

Concen: 1.328 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.000 min

Lab File: VY022920.D

Acq: 02 Jul 2025 18:17

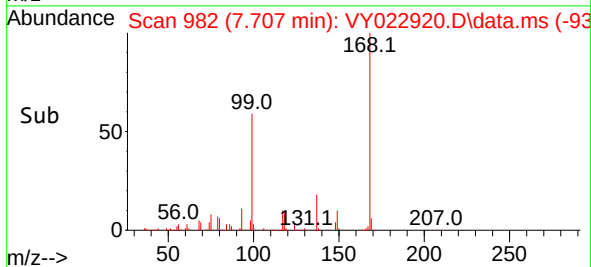
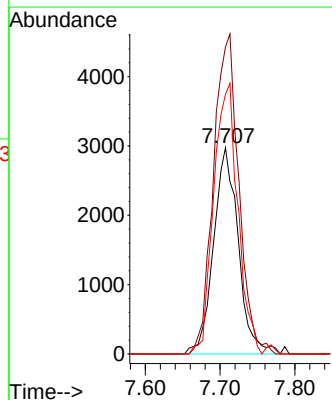
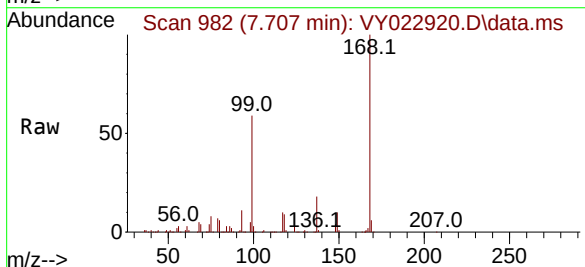
Tgt Ion: 56 Resp: 6853

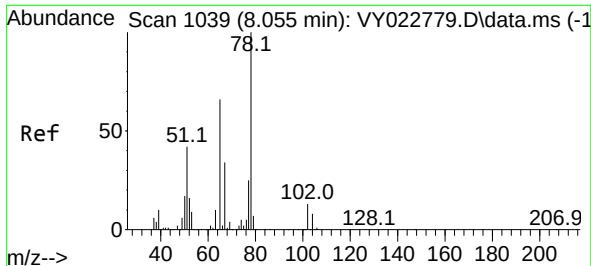
Ion Ratio Lower Upper

56 100

69 148.7 27.0 40.6#

84 125.8 72.6 109.0#

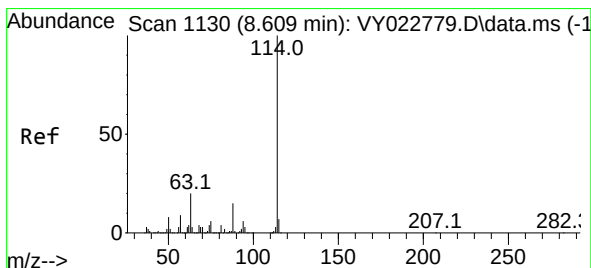
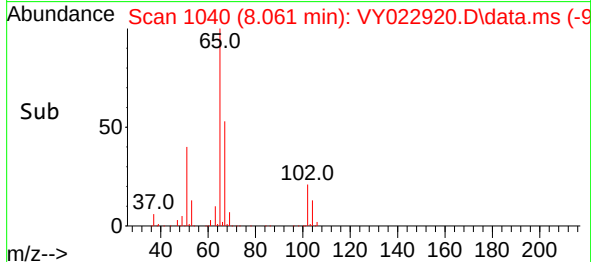
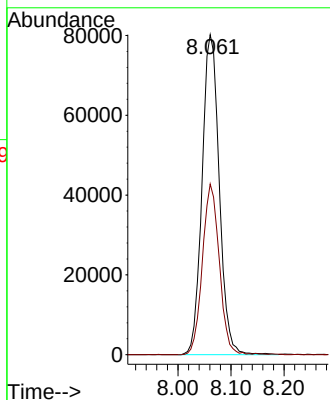
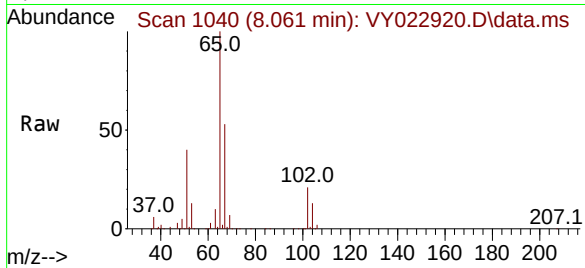




#33
1,2-Dichloroethane-d4
Concen: 60.101 ug/l
RT: 8.061 min Scan# 110
Delta R.T. -0.006 min
Lab File: VY022920.D
Acq: 02 Jul 2025 18:17

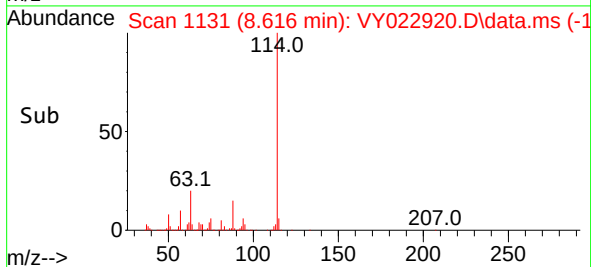
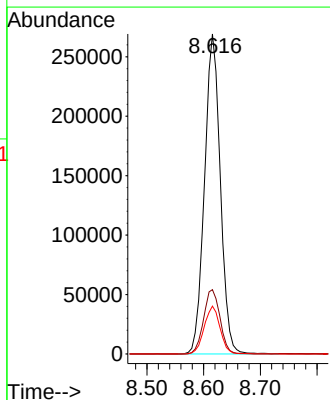
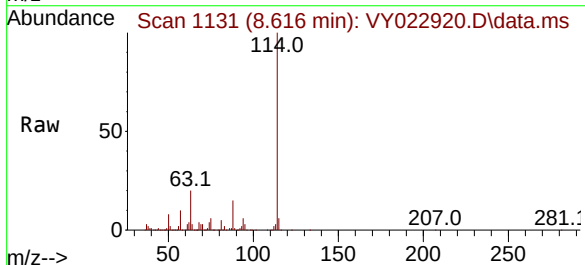
Instrument :
MSVOA_Y
ClientSampleId :
PIT#4

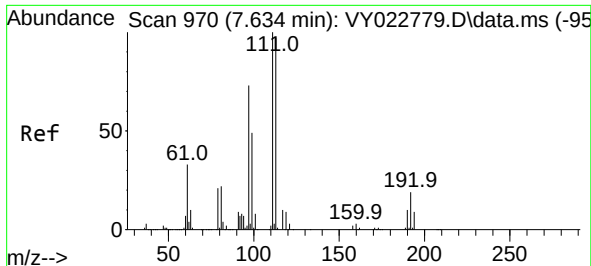
Tgt Ion: 65 Resp: 180615
Ion Ratio Lower Upper
65 100
67 52.3 0.0 103.4



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY022920.D
Acq: 02 Jul 2025 18:17

Tgt Ion:114 Resp: 521273
Ion Ratio Lower Upper
114 100
63 20.1 0.0 40.8
88 14.9 0.0 27.8

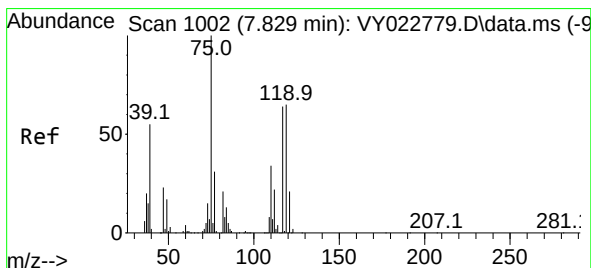
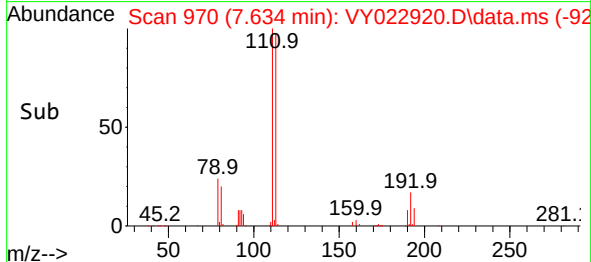
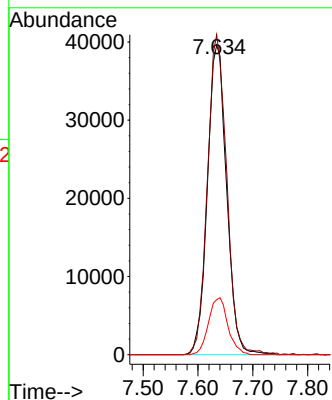
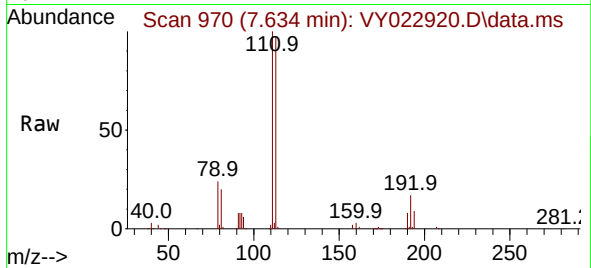




#35
Dibromofluoromethane
Concen: 30.331 ug/l
RT: 7.634 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY022920.D
Acq: 02 Jul 2025 18:17

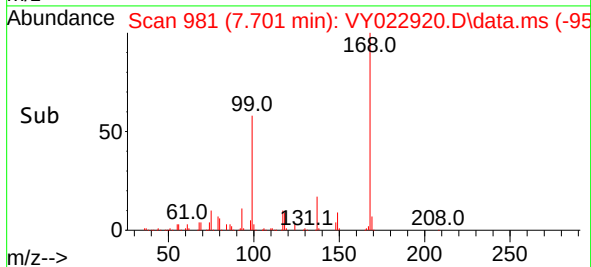
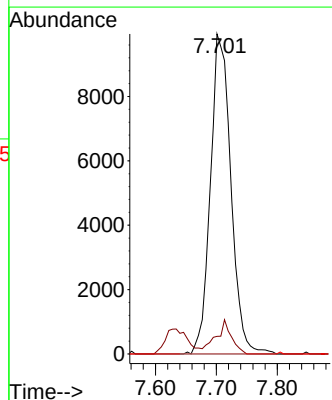
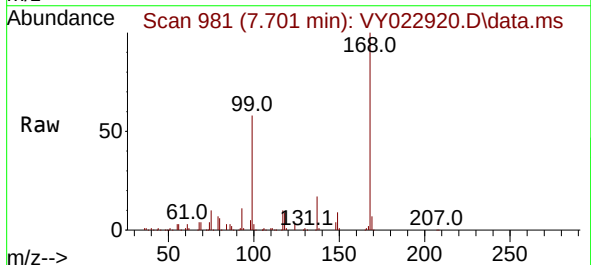
Instrument :
MSVOA_Y
ClientSampleId :
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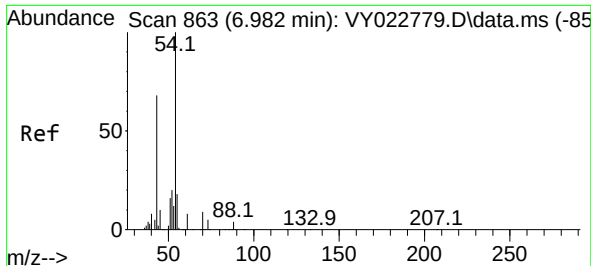
Tgt Ion:113 Resp: 96152
Ion Ratio Lower Upper
113 100
111 103.5 81.1 121.7
192 18.6 14.2 21.2



#36
1,1-Dichloropropene
Concen: 4.839 ug/l
RT: 7.701 min Scan# 981
Delta R.T. -0.140 min
Lab File: VY022920.D
Acq: 02 Jul 2025 18:17

Tgt Ion: 75 Resp: 23252
Ion Ratio Lower Upper
75 100
110 8.0 16.9 50.7#
77 0.0 24.8 37.2#





#37

Ethyl Acetate

Concen: 3.471 ug/l

RT: 6.902 min Scan# 81

Delta R.T. -0.092 min

Lab File: VY022920.D

Acq: 02 Jul 2025 18:17

Instrument :

MSVOA_Y

ClientSampleId :

PIT#4

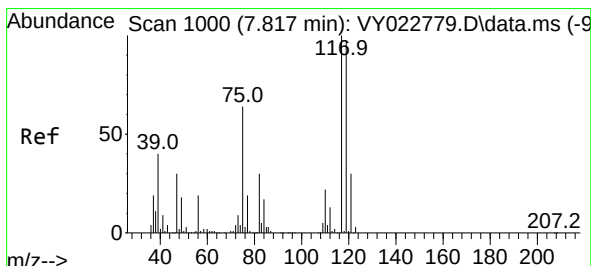
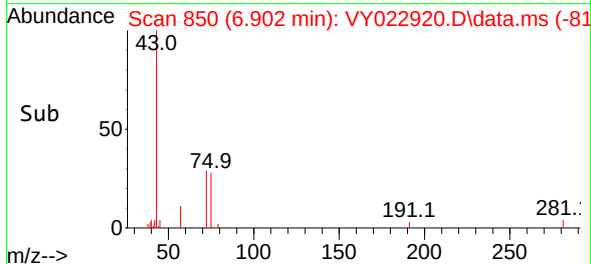
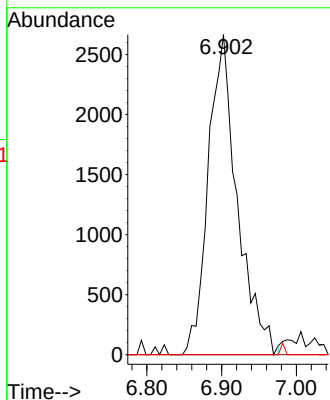
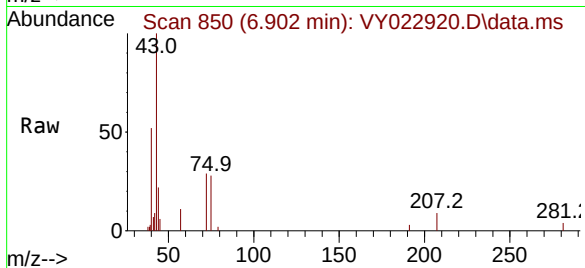
Tgt Ion: 43 Resp: 7198

Ion Ratio Lower Upper

43 100

61 0.0 11.5 17.3#

70 0.0 7.2 10.8#



#38

Carbon Tetrachloride

Concen: 5.600 ug/l

RT: 7.713 min Scan# 983

Delta R.T. -0.110 min

Lab File: VY022920.D

Acq: 02 Jul 2025 18:17

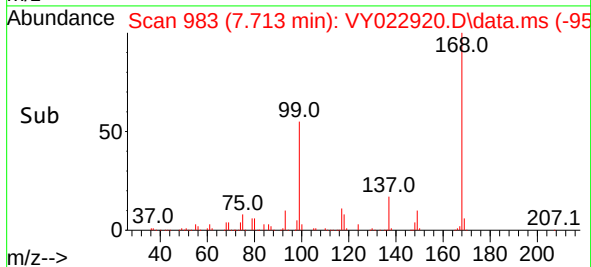
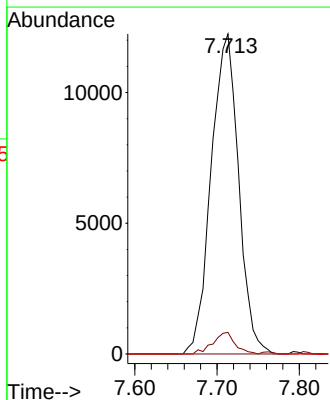
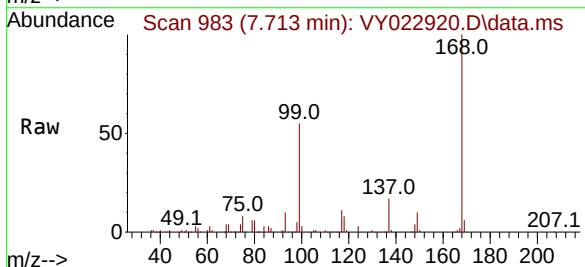
Tgt Ion: 117 Resp: 28390

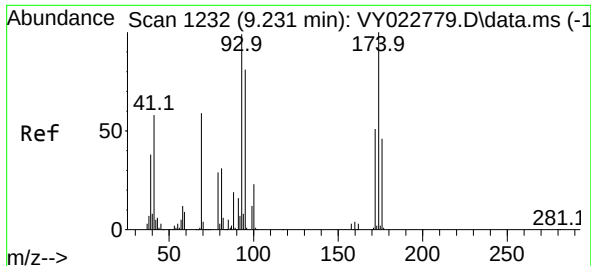
Ion Ratio Lower Upper

117 100

119 6.7 75.0 112.6#

121 0.0 25.0 37.4#





#49

1,4-Dioxane

Concen: 2.113 ug/l

RT: 9.213 min Scan# 1

Delta R.T. -0.031 min

Lab File: VY022920.D

Acq: 02 Jul 2025 18:17

Instrument :

MSVOA_Y

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PIT#4

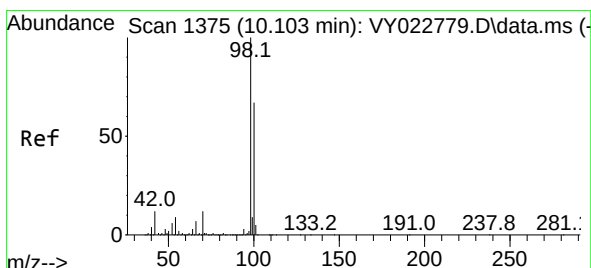
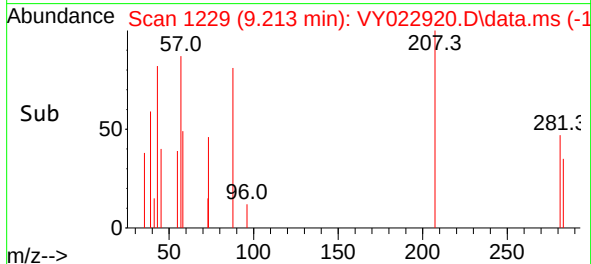
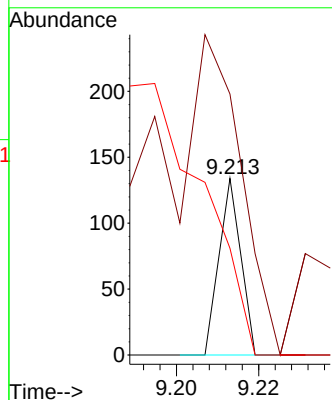
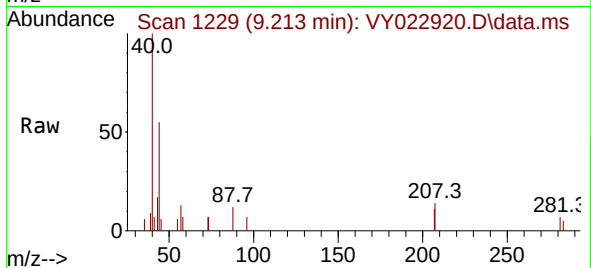
Tgt Ion: 88 Resp: 49

Ion Ratio Lower Upper

88 100

43 693.9 25.4 38.2#

58 0.0 54.9 82.3#



#50

Toluene-d8

Concen: 51.504 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. -0.000 min

Lab File: VY022920.D

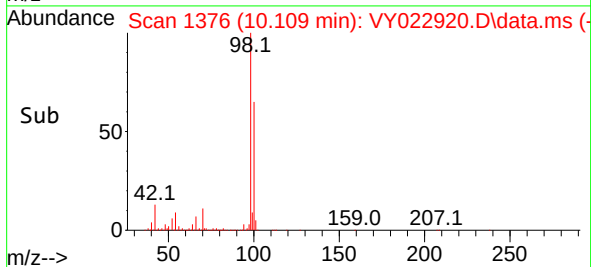
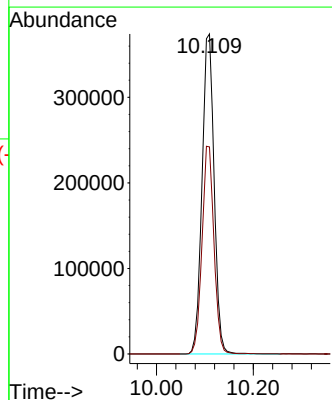
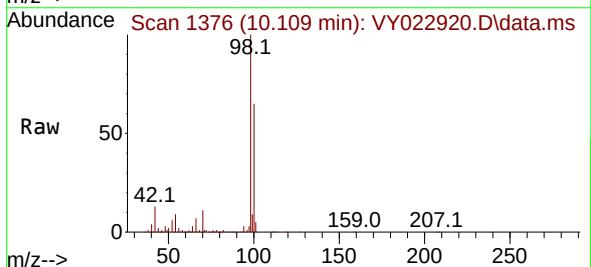
Acq: 02 Jul 2025 18:17

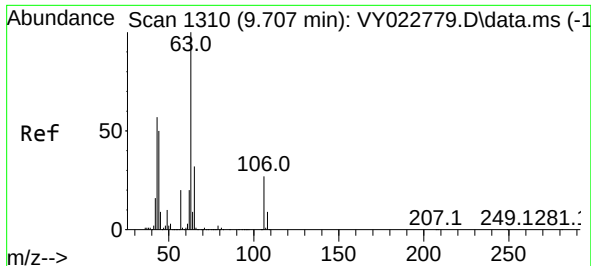
Tgt Ion: 98 Resp: 647893

Ion Ratio Lower Upper

98 100

100 64.3 51.4 77.0

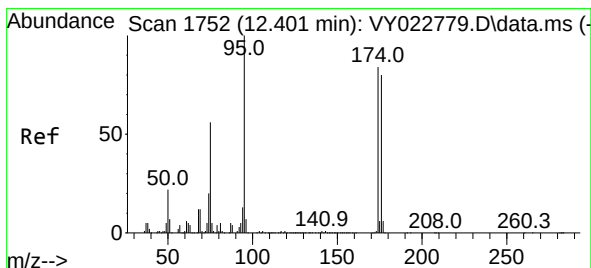
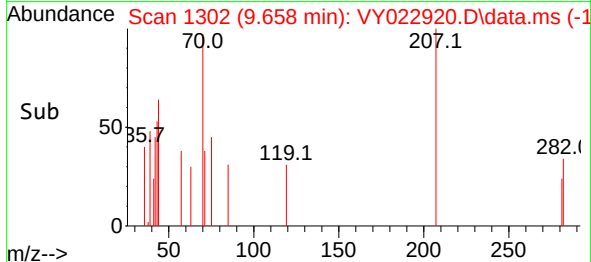
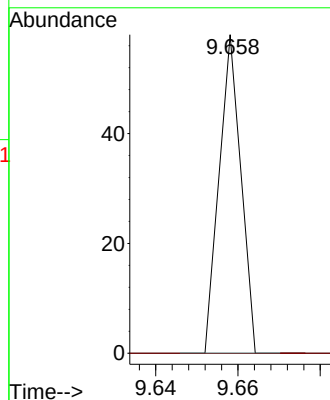
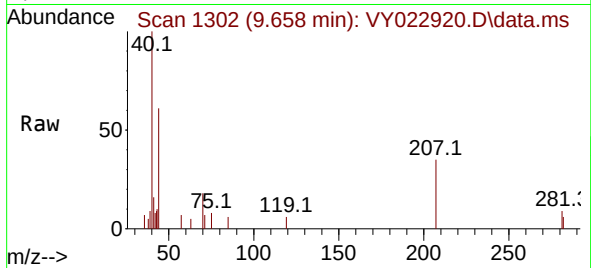




#58
2-Chloroethyl Vinyl ether
Concen: 15.666 ug/l
RT: 9.658 min Scan# 11
Delta R.T. -0.055 min
Lab File: VY022920.D
Acq: 02 Jul 2025 18:17

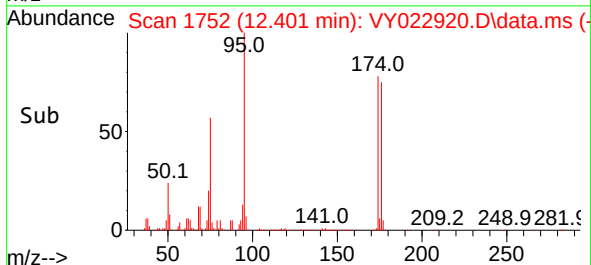
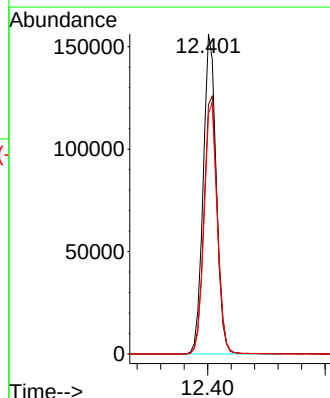
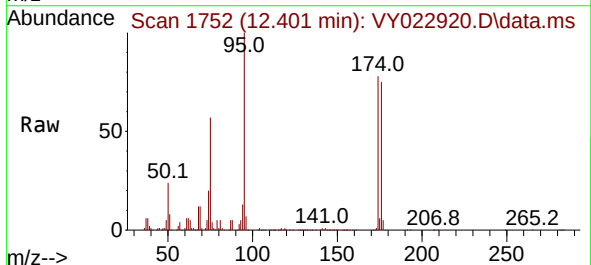
Instrument :
MSVOA_Y
ClientSampleId :
PIT#4

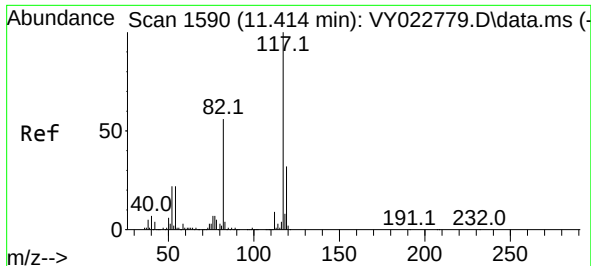
Tgt Ion: 63 Resp: 21
Ion Ratio Lower Upper
63 100
106 0.0 21.6 32.4#



#62
4-Bromofluorobenzene
Concen: 59.428 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022920.D
Acq: 02 Jul 2025 18:17

Tgt Ion: 95 Resp: 240320
Ion Ratio Lower Upper
95 100
174 83.4 0.0 170.0
176 79.4 0.0 166.2

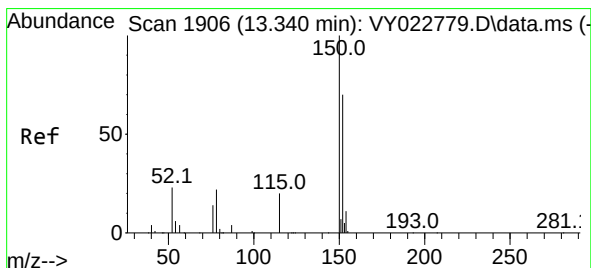
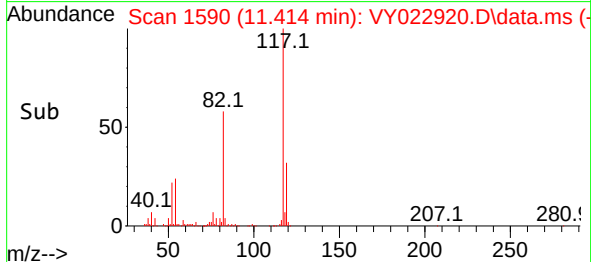
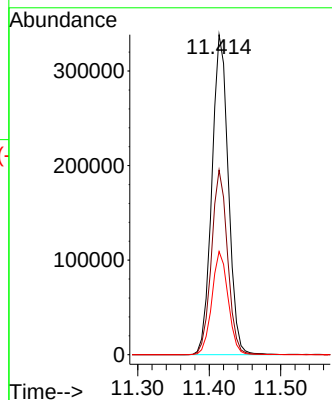
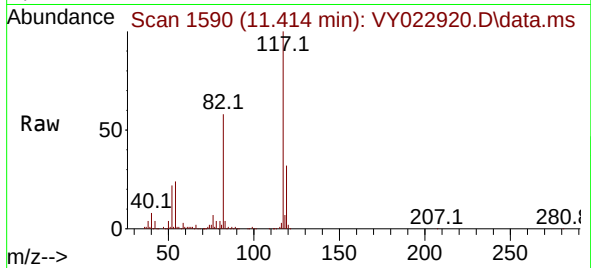




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 117
Delta R.T. -0.006 min
Lab File: VY022920.D
Acq: 02 Jul 2025 18:17

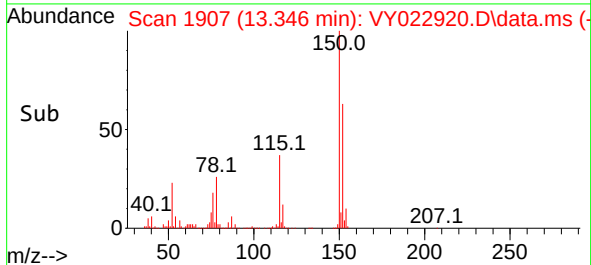
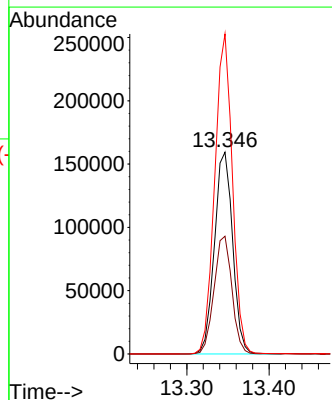
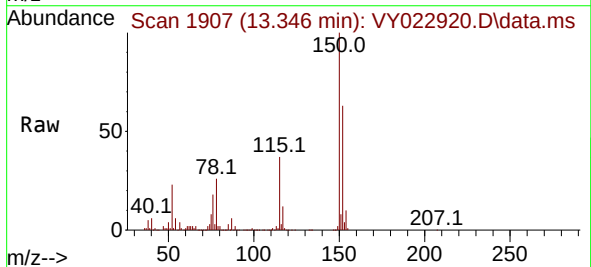
Instrument :
MSVOA_Y
ClientSampleId :
PIT#4

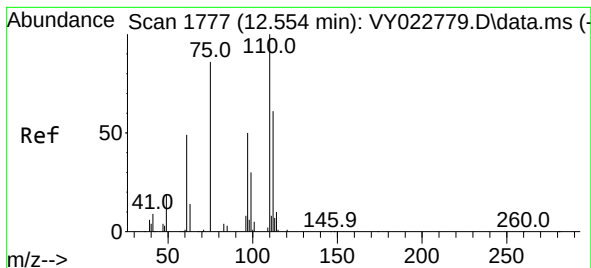
Tgt Ion:117 Resp: 540209
Ion Ratio Lower Upper
117 100
82 57.7 44.6 66.8
119 32.3 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022920.D
Acq: 02 Jul 2025 18:17

Tgt Ion:152 Resp: 244944
Ion Ratio Lower Upper
152 100
115 57.3 28.9 86.7
150 154.1 0.0 349.6

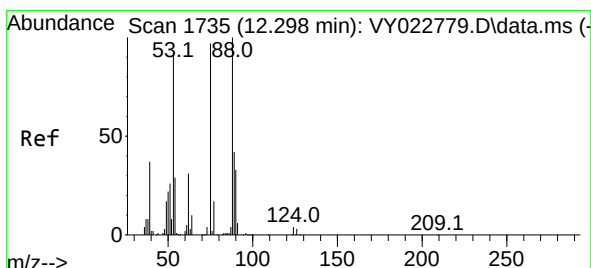
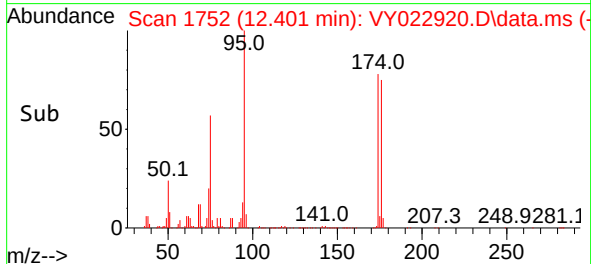
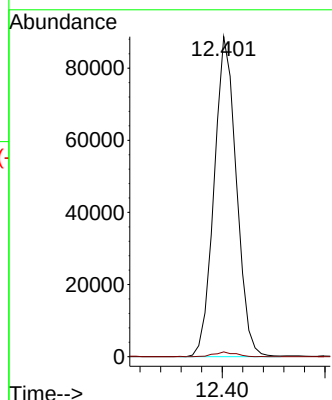
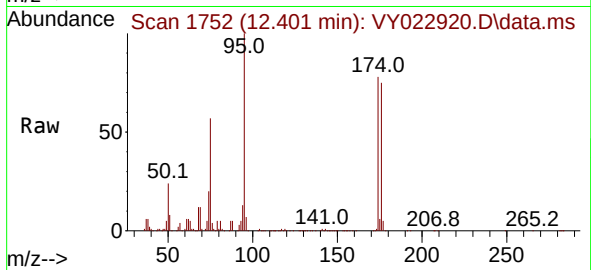




#76
1,2,3-Trichloropropane
Concen: 53.377 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.153 min
Lab File: VY022920.D
Acq: 02 Jul 2025 18:17

Instrument :
MSVOA_Y
ClientSampleId :
PIT#4

Tgt Ion: 75 Resp: 133479
Ion Ratio Lower Upper
75 100
77 1.4 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 134.852 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.097 min
Lab File: VY022920.D
Acq: 02 Jul 2025 18:17

Tgt Ion: 75 Resp: 133479
Ion Ratio Lower Upper
75 100
53 0.1 78.5 117.7#
89 0.0 35.7 53.5#

