

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
 Data File : VY023390.D
 Acq On : 07 Oct 2025 13:02
 Operator : SY/MD
 Sample : VIBLK
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VIBLK

Quant Time: Oct 08 05:15:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 05:12:50 2025
 Response via : Initial Calibration

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

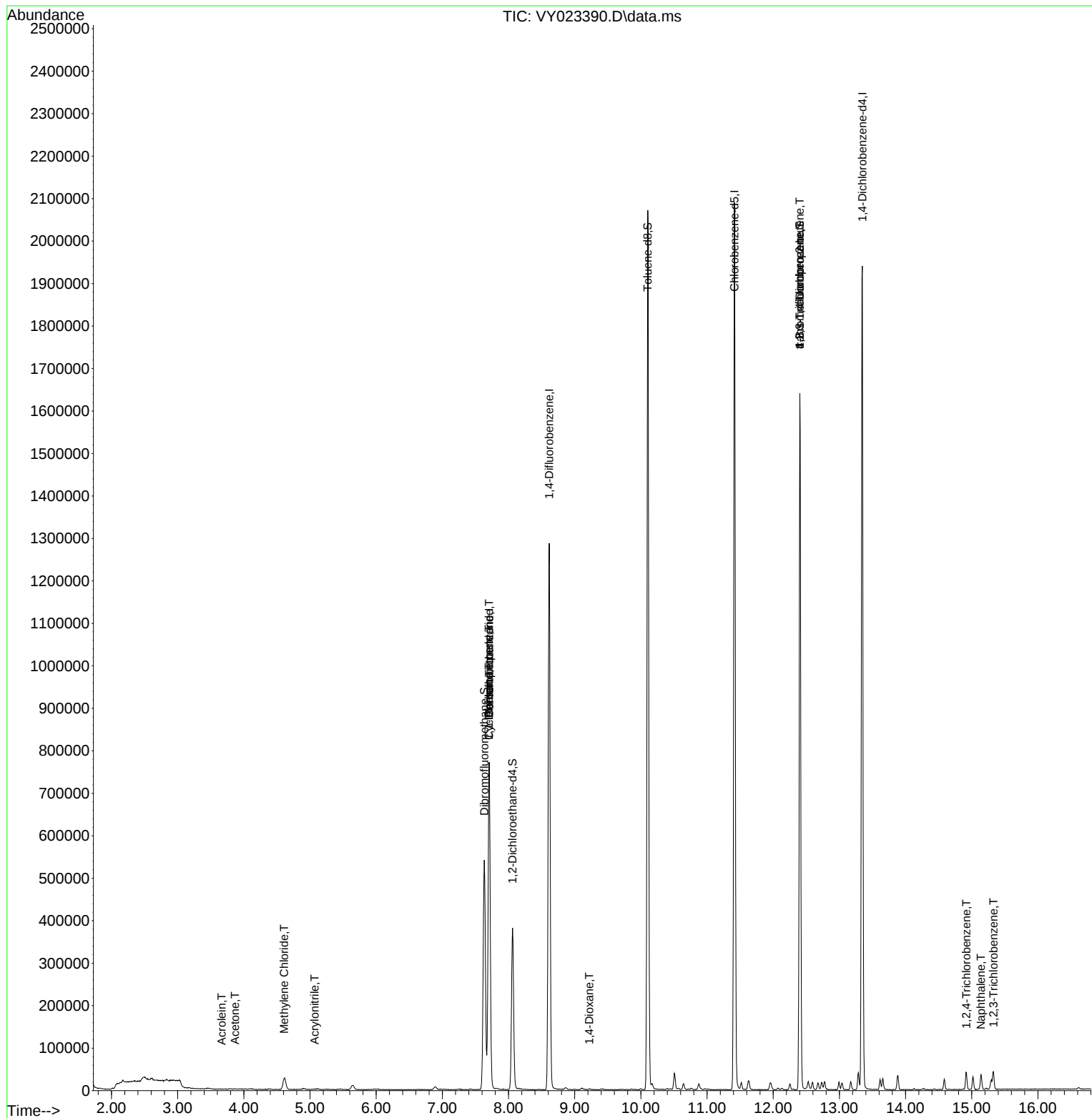
Internal Standards						
1) Pentafluorobenzene	7.707	168	647876	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1192763	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	1149875	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	542362	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	298207	55.044	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 110.080%	
35) Dibromofluoromethane	7.634	113	384727	52.494	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 104.980%	
50) Toluene-d8	10.103	98	1383132	50.676	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 101.360%	
62) 4-Bromofluorobenzene	12.401	95	485073	53.831	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 107.660%	
Target Compounds						
					Qvalue	
13) Acrolein	3.665	56	634	1.113	ug/l #	48
15) Acrylonitrile	5.067	53	1490	1.297	ug/l #	60
16) Acetone	3.866	43	2125	1.648	ug/l #	84
20) Methylene Chloride	4.610	84	22207	3.184	ug/l	93
31) Cyclohexane	7.701	56	11033	1.224	ug/l #	8
36) 1,1-Dichloropropene	7.701	75	42186	4.348	ug/l #	47
38) Carbon Tetrachloride	7.707	117	57919	4.923	ug/l #	15
49) 1,4-Dioxane	9.219	88	132	2.653	ug/l #	44
76) 1,2,3-Trichloropropane	12.401	75	237558	49.646	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.401	75	237558	121.740	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.919	180	13062	1.292	ug/l	97
95) Naphthalene	15.139	128	29694	1.844	ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	14675	1.675	ug/l	96

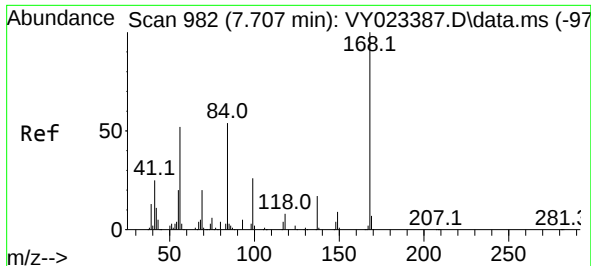
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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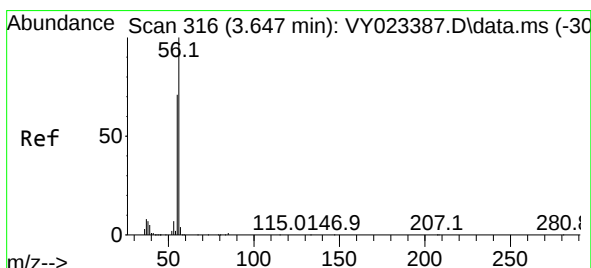
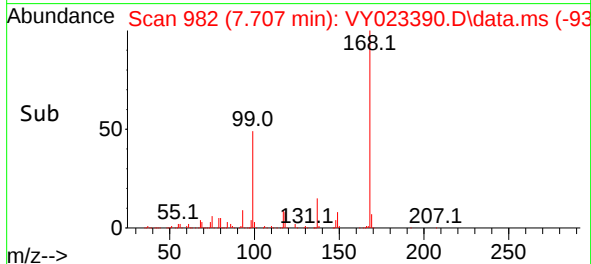
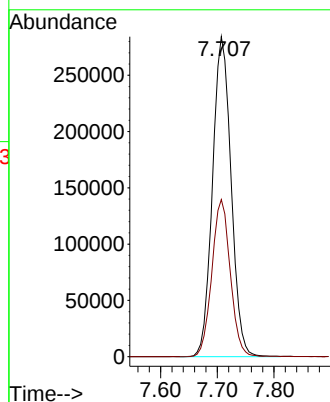
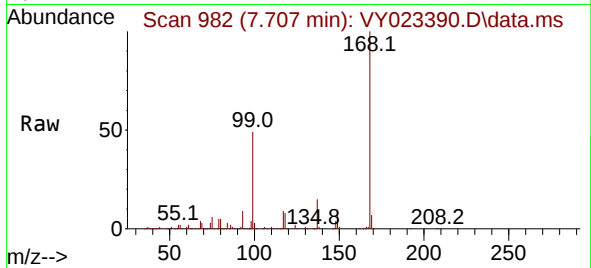




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY023390.D
Acq: 07 Oct 2025 13:02

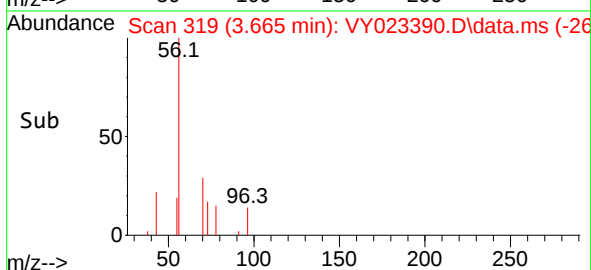
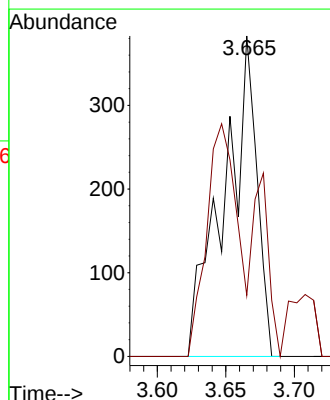
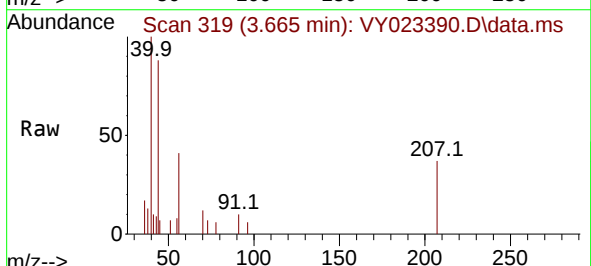
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

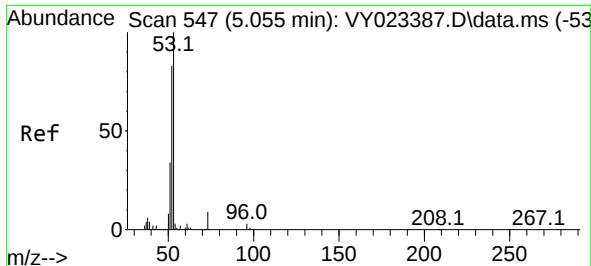
Tgt Ion:168 Resp: 647876
Ion Ratio Lower Upper
168 100
99 49.1 39.7 59.5



#13
Acrolein
Concen: 1.113 ug/l
RT: 3.665 min Scan# 319
Delta R.T. 0.018 min
Lab File: VY023390.D
Acq: 07 Oct 2025 13:02

Tgt Ion: 56 Resp: 634
Ion Ratio Lower Upper
56 100
55 27.3 56.1 84.1#

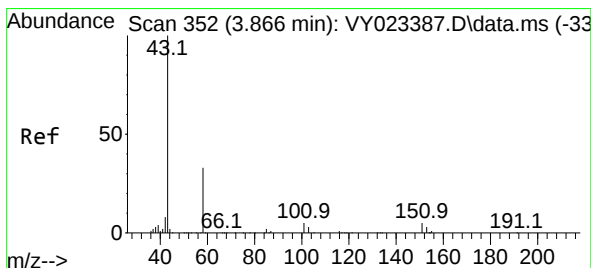
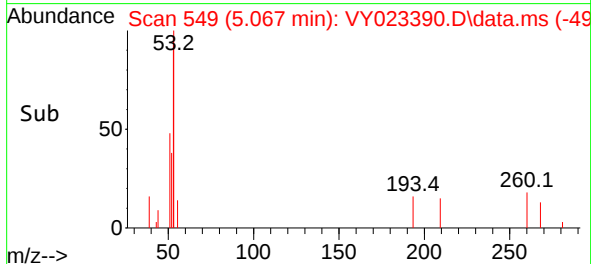
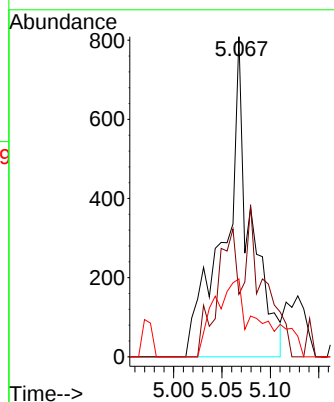
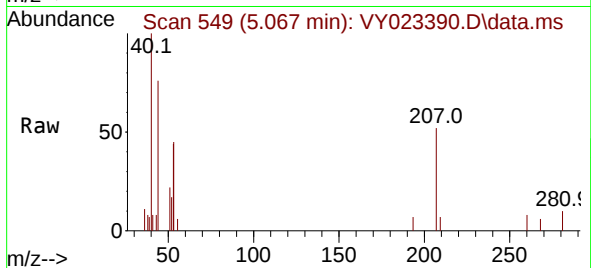




#15
Acrylonitrile
Concen: 1.297 ug/l
RT: 5.067 min Scan# 547
Delta R.T. 0.012 min
Lab File: VY023390.D
Acq: 07 Oct 2025 13:02

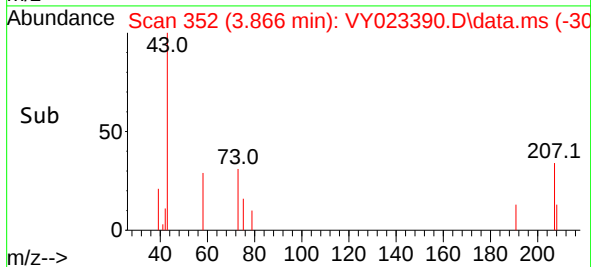
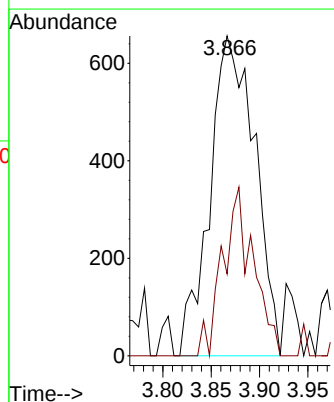
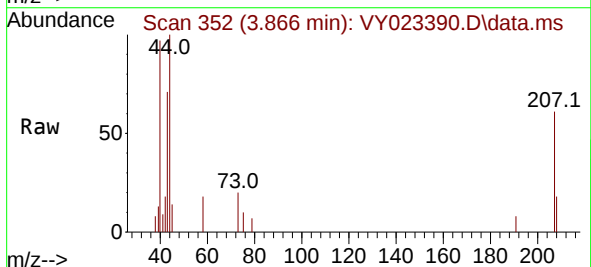
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

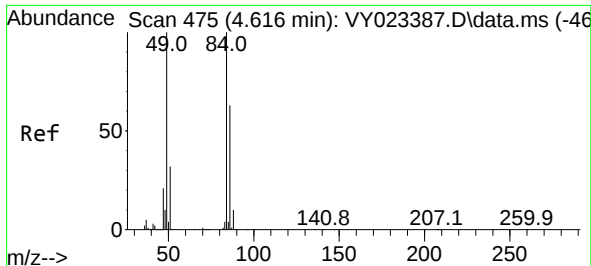
Tgt Ion: 53 Resp: 1490
Ion Ratio Lower Upper
53 100
52 32.6 64.6 97.0#
51 31.3 29.5 44.3



#16
Acetone
Concen: 1.648 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.000 min
Lab File: VY023390.D
Acq: 07 Oct 2025 13:02

Tgt Ion: 43 Resp: 2125
Ion Ratio Lower Upper
43 100
58 25.6 27.7 41.5#

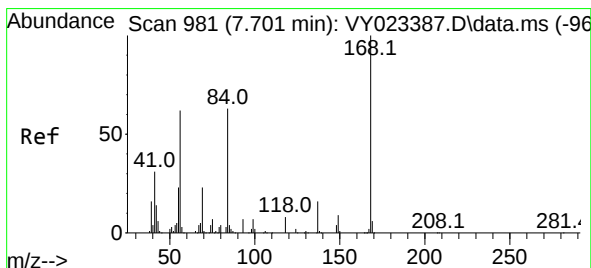
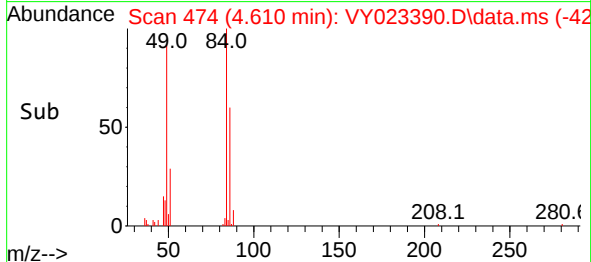
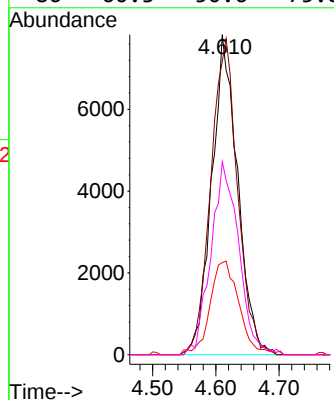
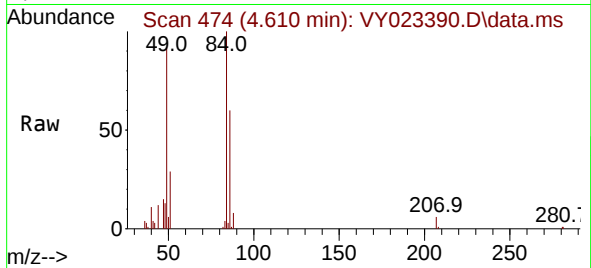




#20
Methylene Chloride
Concen: 3.184 ug/l
RT: 4.610 min Scan# 41
Delta R.T. -0.006 min
Lab File: VY023390.D
Acq: 07 Oct 2025 13:02

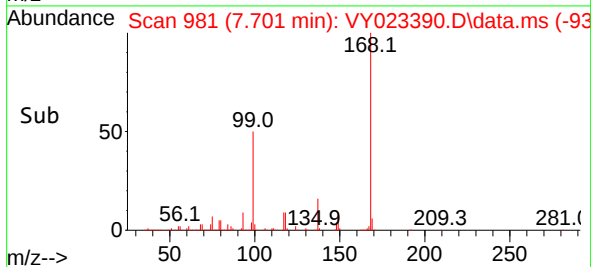
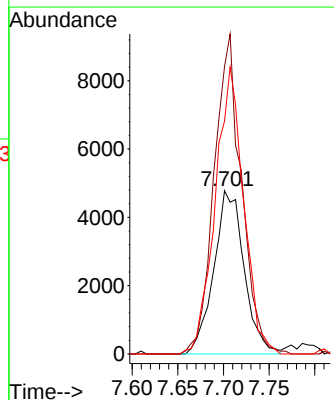
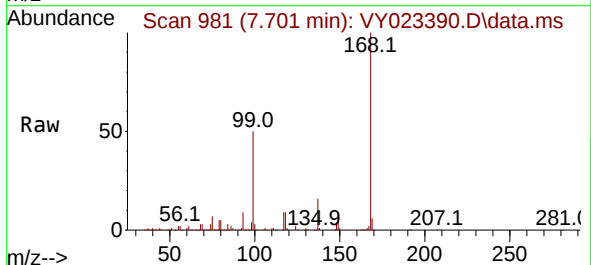
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

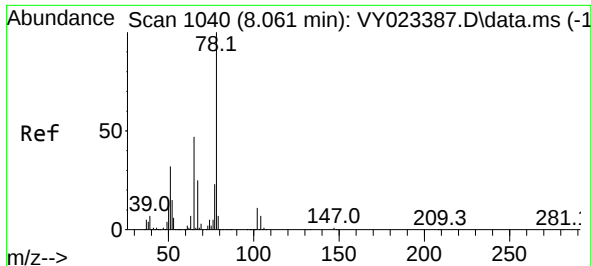
Tgt Ion:	84	Resp:	22207
Ion	Ratio	Lower	Upper
84	100		
49	91.7	80.2	120.4
51	28.8	25.9	38.9
86	60.3	50.6	75.8



#31
Cyclohexane
Concen: 1.224 ug/l
RT: 7.701 min Scan# 981
Delta R.T. -0.000 min
Lab File: VY023390.D
Acq: 07 Oct 2025 13:02

Tgt Ion:	56	Resp:	11033
Ion	Ratio	Lower	Upper
56	100		
69	176.0	30.0	45.0#
84	142.7	81.2	121.8#





#33

1,2-Dichloroethane-d4

Concen: 55.044 ug/l

RT: 8.061 min Scan# 1

Delta R.T. -0.000 min

Lab File: VY023390.D

Acq: 07 Oct 2025 13:02

Instrument :

MSVOA_Y

ClientSampleId :

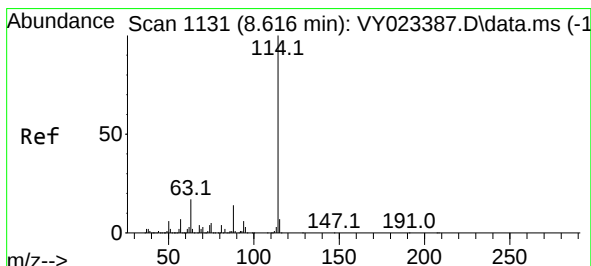
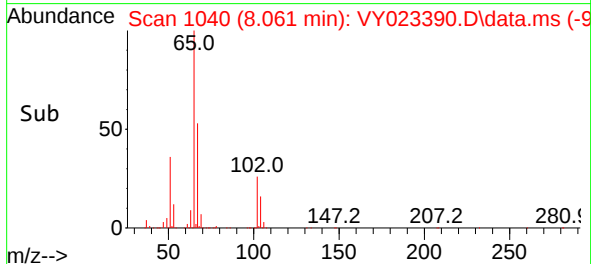
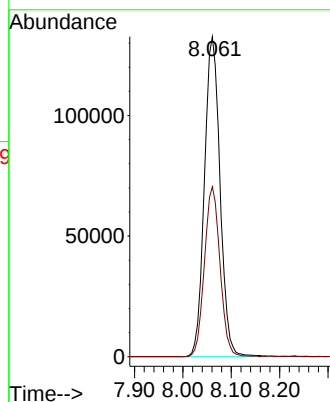
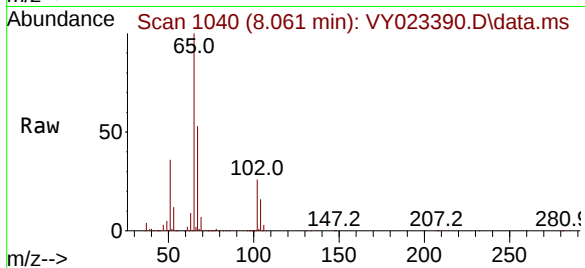
VIBLK

Tgt Ion: 65 Resp: 298207

Ion Ratio Lower Upper

65 100

67 52.9 0.0 105.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY023390.D

Acq: 07 Oct 2025 13:02

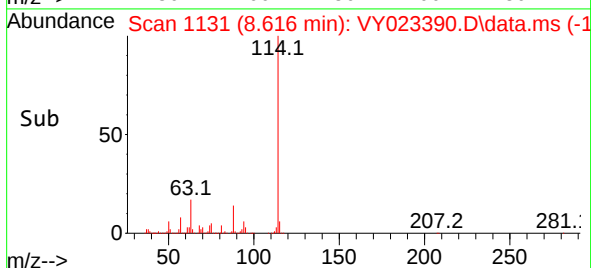
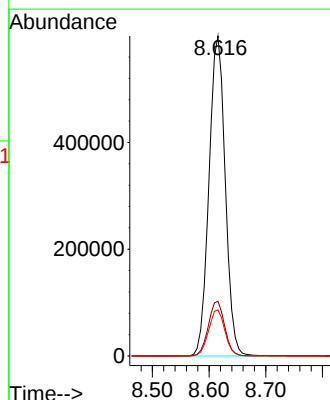
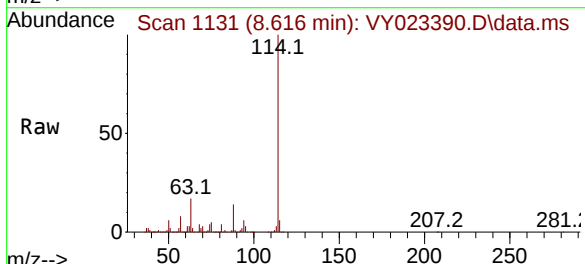
Tgt Ion:114 Resp: 1192763

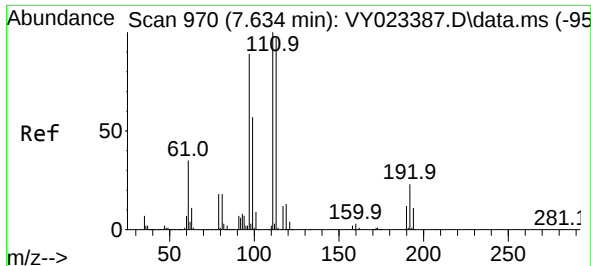
Ion Ratio Lower Upper

114 100

63 17.1 0.0 34.2

88 14.4 0.0 28.4

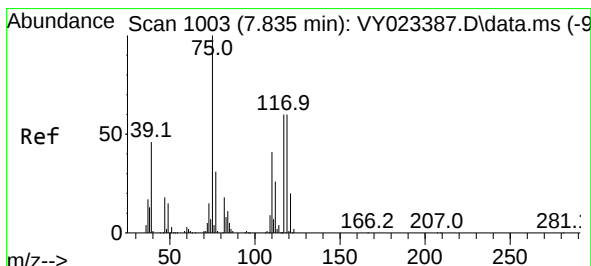
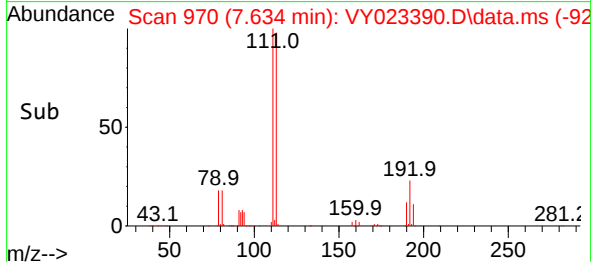
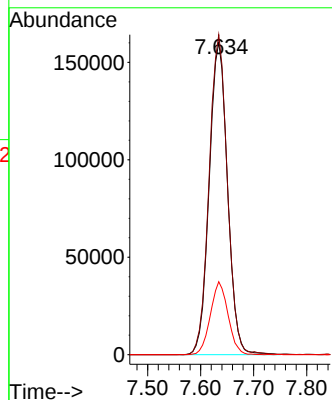
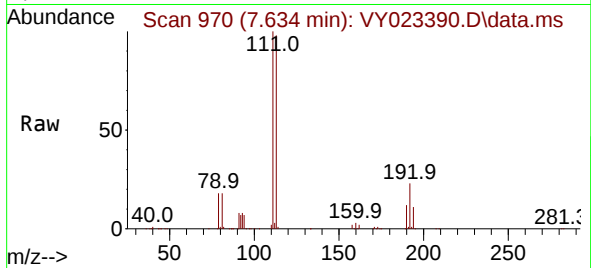




#35
Dibromofluoromethane
Concen: 52.494 ug/l
RT: 7.634 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY023390.D
Acq: 07 Oct 2025 13:02

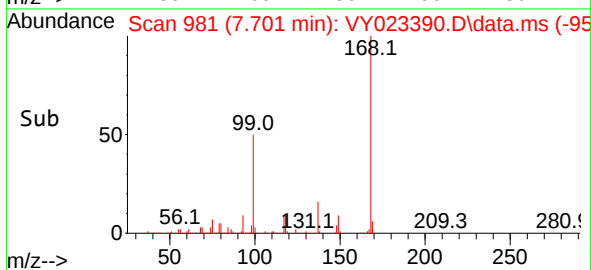
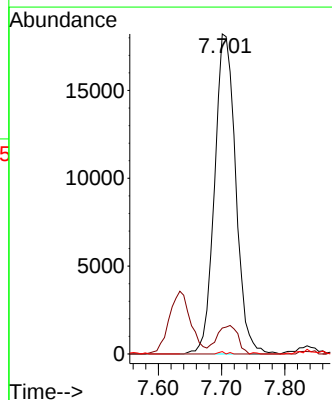
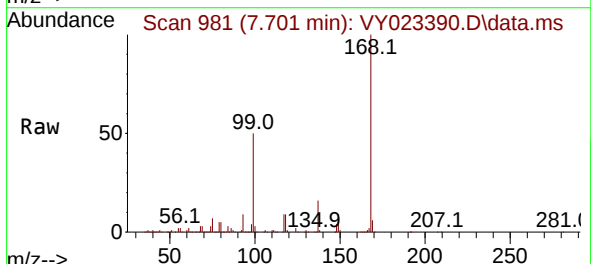
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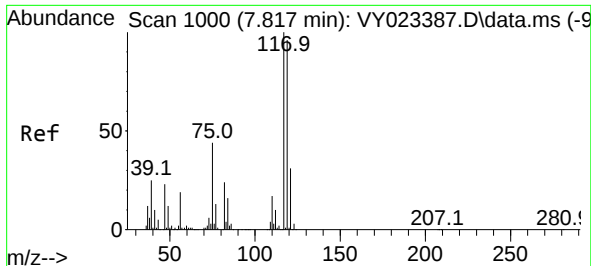
Tgt Ion:113 Resp: 384727
Ion Ratio Lower Upper
113 100
111 102.3 81.8 122.6
192 22.6 18.0 27.0



#36
1,1-Dichloropropene
Concen: 4.348 ug/l
RT: 7.701 min Scan# 981
Delta R.T. -0.134 min
Lab File: VY023390.D
Acq: 07 Oct 2025 13:02

Tgt Ion: 75 Resp: 42186
Ion Ratio Lower Upper
75 100
110 8.8 19.9 59.7#
77 0.3 25.0 37.6#

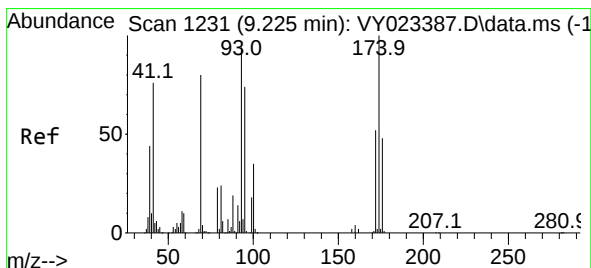
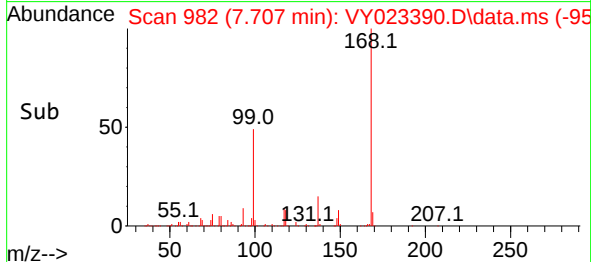
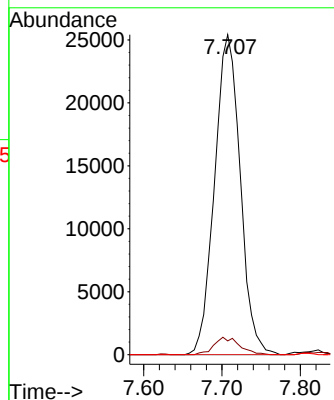
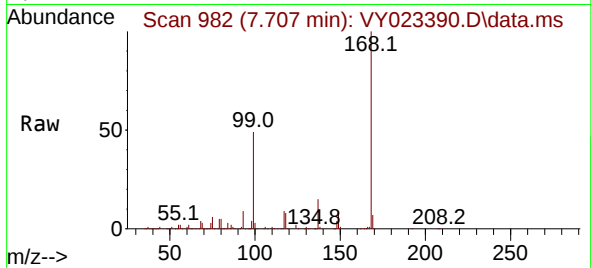




#38
Carbon Tetrachloride
Concen: 4.923 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.110 min
Lab File: VY023390.D
Acq: 07 Oct 2025 13:02

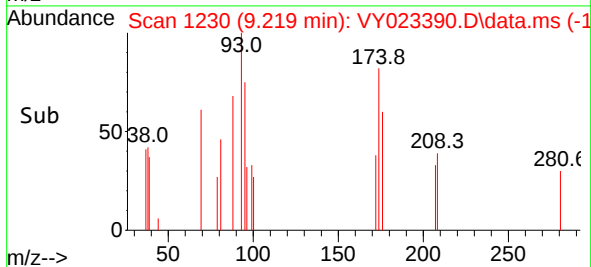
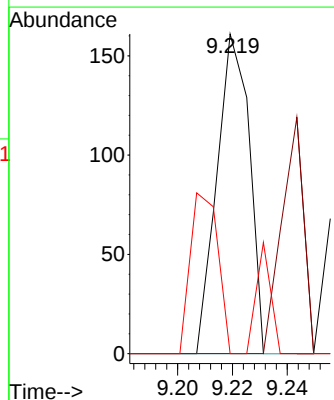
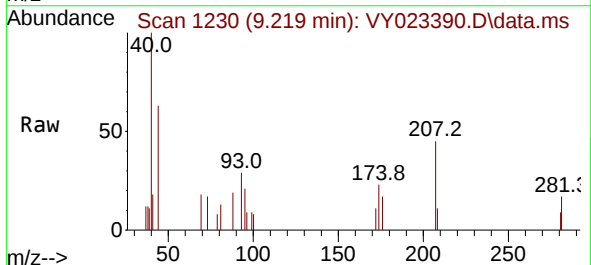
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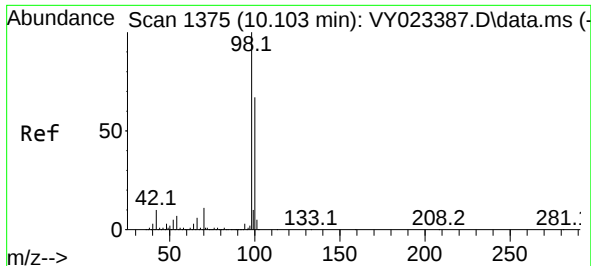
Tgt Ion:117 Resp: 57919
Ion Ratio Lower Upper
117 100
119 4.3 76.8 115.2#
121 0.0 24.5 36.7#



#49
1,4-Dioxane
Concen: 2.653 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. -0.006 min
Lab File: VY023390.D
Acq: 07 Oct 2025 13:02

Tgt Ion: 88 Resp: 132
Ion Ratio Lower Upper
88 100
43 0.0 21.8 32.8#
58 15.2 46.8 70.2#

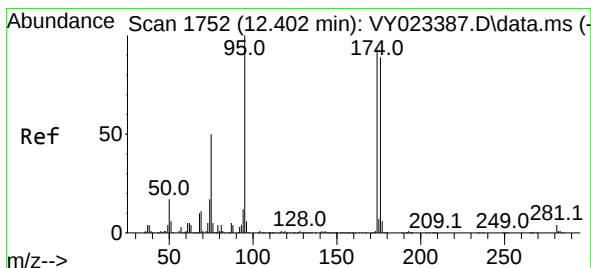
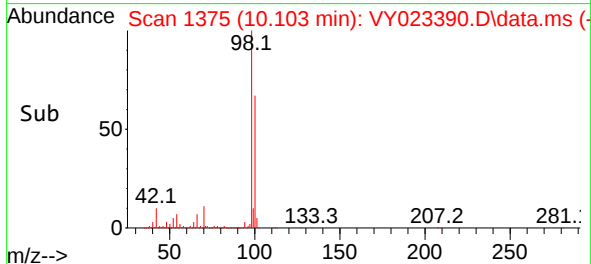
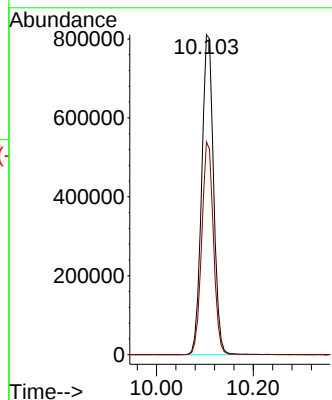
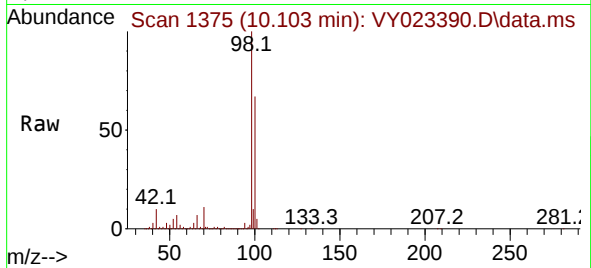




#50
Toluene-d8
Concen: 50.676 ug/l
RT: 10.103 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY023390.D
Acq: 07 Oct 2025 13:02

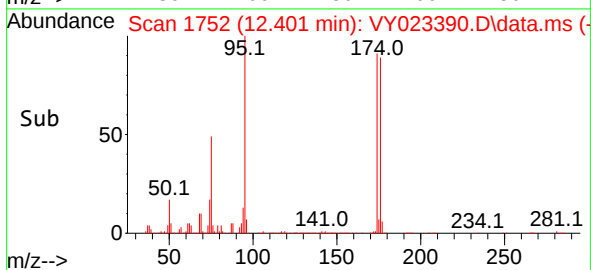
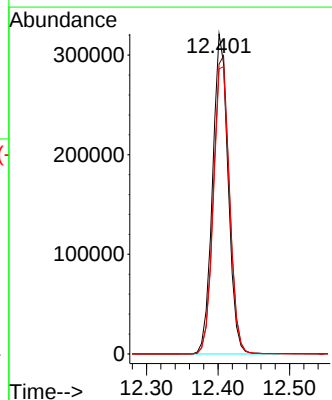
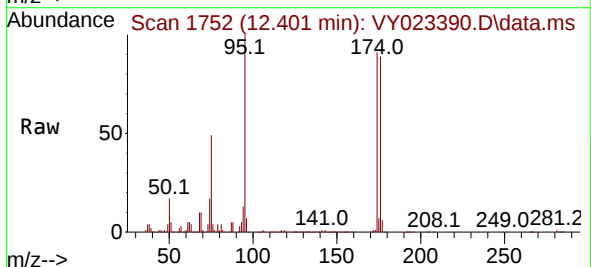
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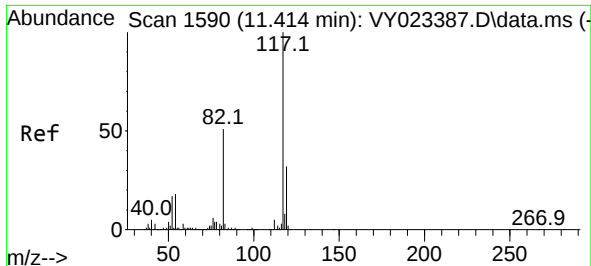
Tgt Ion: 98 Resp: 1383132
Ion Ratio Lower Upper
98 100
100 65.6 53.0 79.4



#62
4-Bromofluorobenzene
Concen: 53.831 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023390.D
Acq: 07 Oct 2025 13:02

Tgt Ion: 95 Resp: 485073
Ion Ratio Lower Upper
95 100
174 96.1 0.0 192.8
176 93.1 0.0 187.6

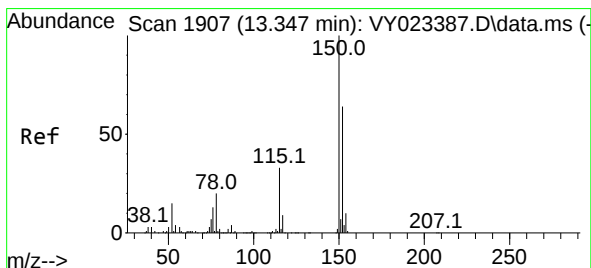
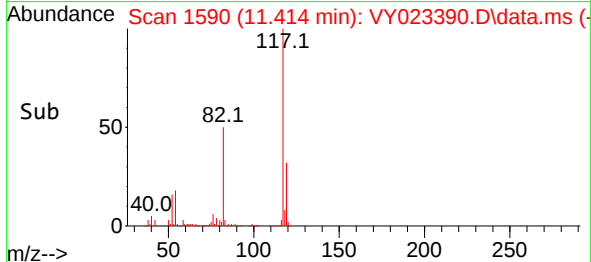
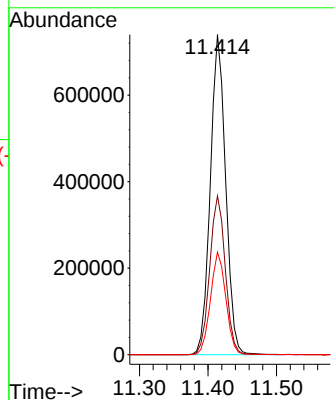
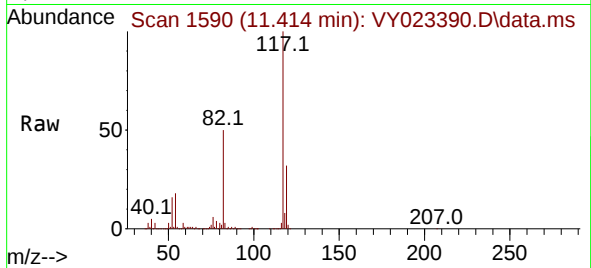




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY023390.D
Acq: 07 Oct 2025 13:02

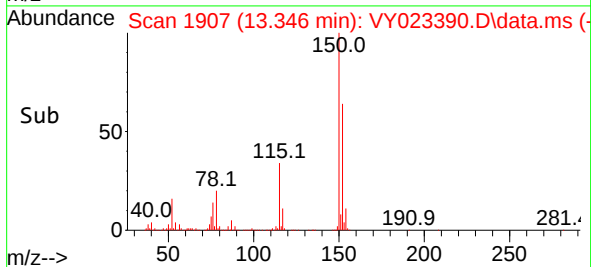
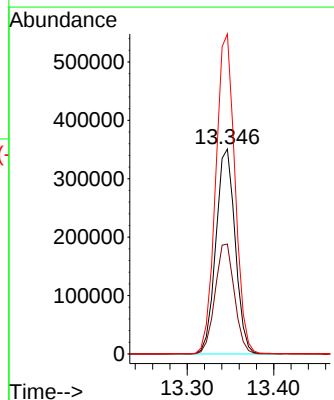
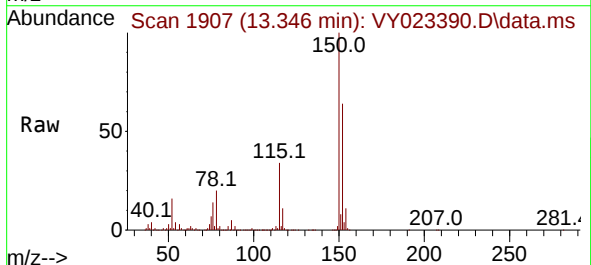
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

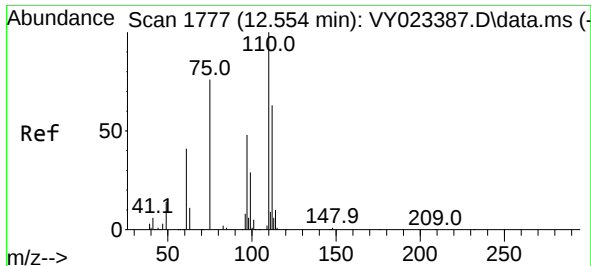
Tgt Ion:117 Resp: 1149875
Ion Ratio Lower Upper
117 100
82 49.6 41.0 61.4
119 32.1 25.6 38.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY023390.D
Acq: 07 Oct 2025 13:02

Tgt Ion:152 Resp: 542362
Ion Ratio Lower Upper
152 100
115 54.0 27.1 81.2
150 156.3 0.0 347.4

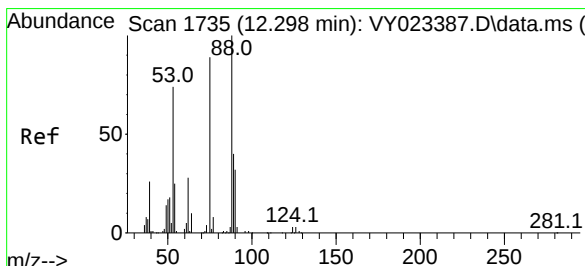
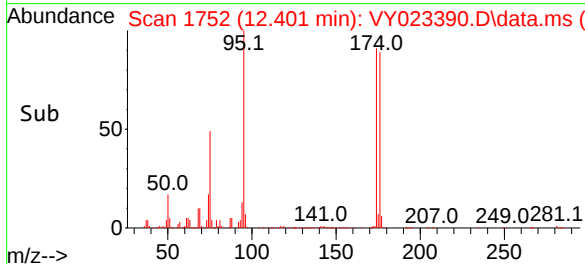
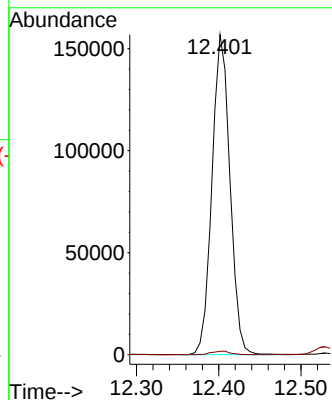
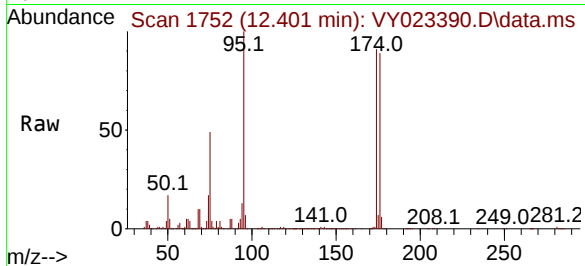




#76
1,2,3-Trichloropropane
Concen: 49.646 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.152 min
Lab File: VY023390.D
Acq: 07 Oct 2025 13:02

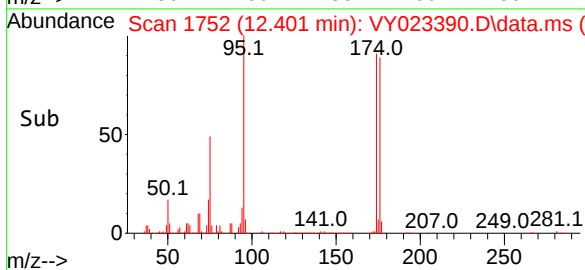
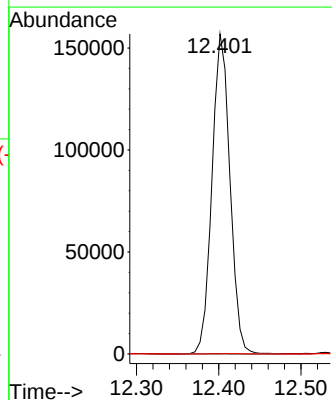
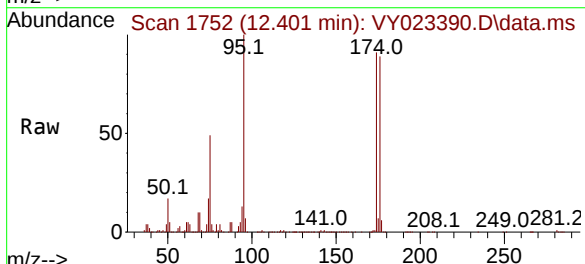
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

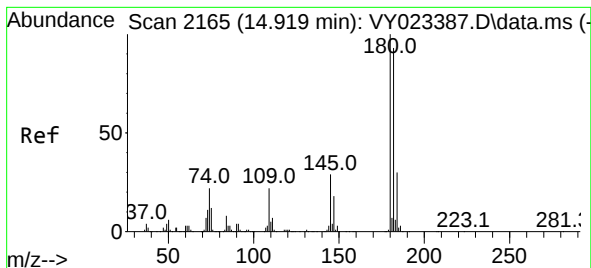
Tgt Ion: 75 Resp: 237558
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 121.740 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.104 min
Lab File: VY023390.D
Acq: 07 Oct 2025 13:02

Tgt Ion: 75 Resp: 237558
Ion Ratio Lower Upper
75 100
53 0.1 68.6 102.8#
89 0.0 39.0 58.4#





#93

1,2,4-Trichlorobenzene

Concen: 1.292 ug/l

RT: 14.919 min Scan# 2165

Delta R.T. -0.000 min

Lab File: VY023390.D

Acq: 07 Oct 2025 13:02

Instrument :

MSVOA_Y

ClientSampleId :

VIBLK

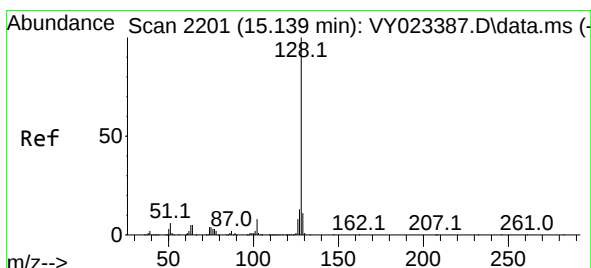
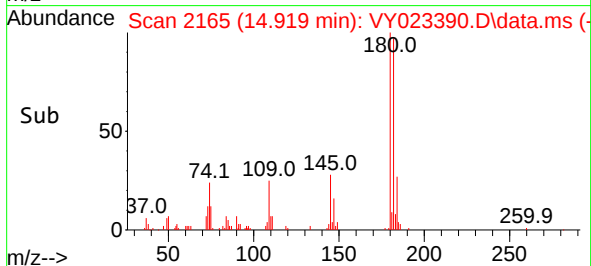
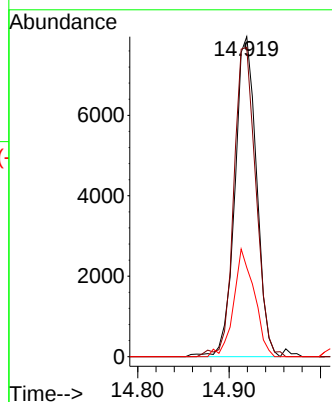
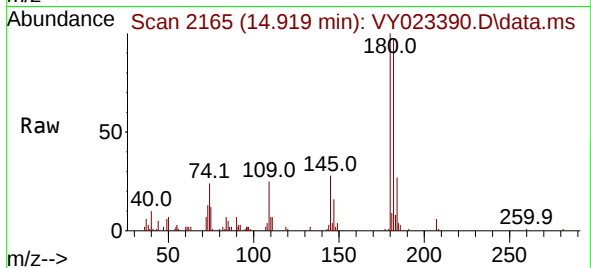
Tgt Ion:180 Resp: 13062

Ion Ratio Lower Upper

180 100

182 98.5 47.9 143.6

145 32.3 14.7 44.1



#95

Naphthalene

Concen: 1.844 ug/l

RT: 15.139 min Scan# 2201

Delta R.T. -0.000 min

Lab File: VY023390.D

Acq: 07 Oct 2025 13:02

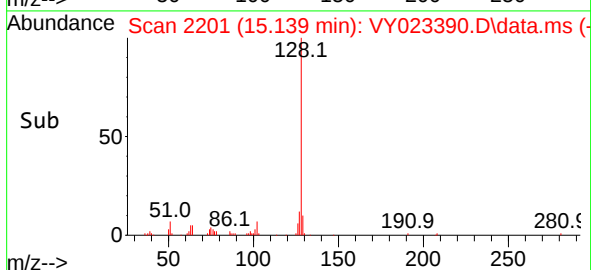
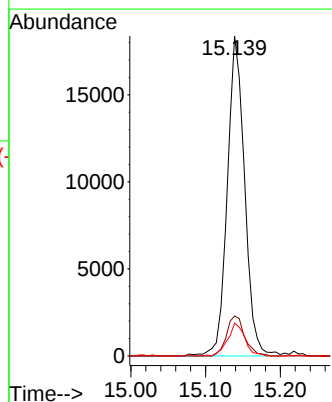
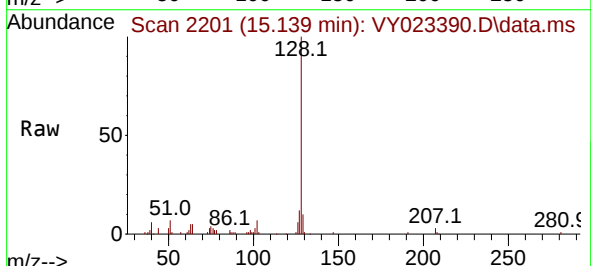
Tgt Ion:128 Resp: 29694

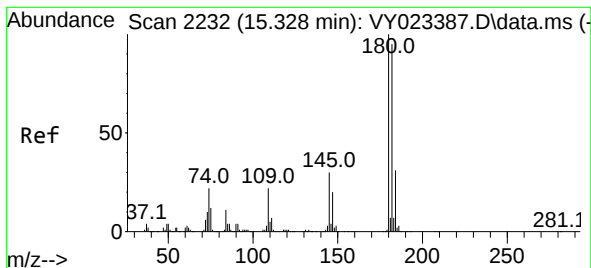
Ion Ratio Lower Upper

128 100

127 13.0 10.4 15.6

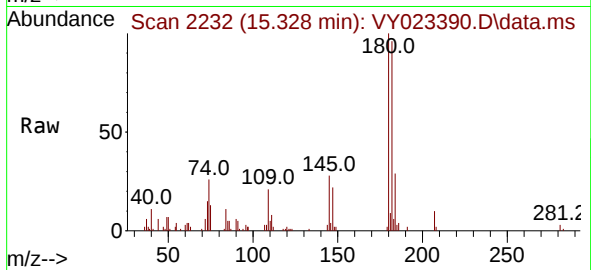
129 10.1 8.9 13.3





#96
 1,2,3-Trichlorobenzene
 Concen: 1.675 ug/l
 RT: 15.328 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VY023390.D
 Acq: 07 Oct 2025 13:02

Instrument :
 MSVOA_Y
 ClientSampleId :
 VIBLK



Tgt Ion:	180	Resp:	14675
Ion	Ratio	Lower	Upper
180	100		
182	92.0	47.9	143.8
145	28.3	15.3	45.9

