

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090525\
 Data File : VY023294.D
 Acq On : 05 Sep 2025 12:02
 Operator : SY/MD
 Sample : Q3027-01
 Misc : 5.54g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Sep 06 01:55:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 02:10:11 2025
 Response via : Initial Calibration

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

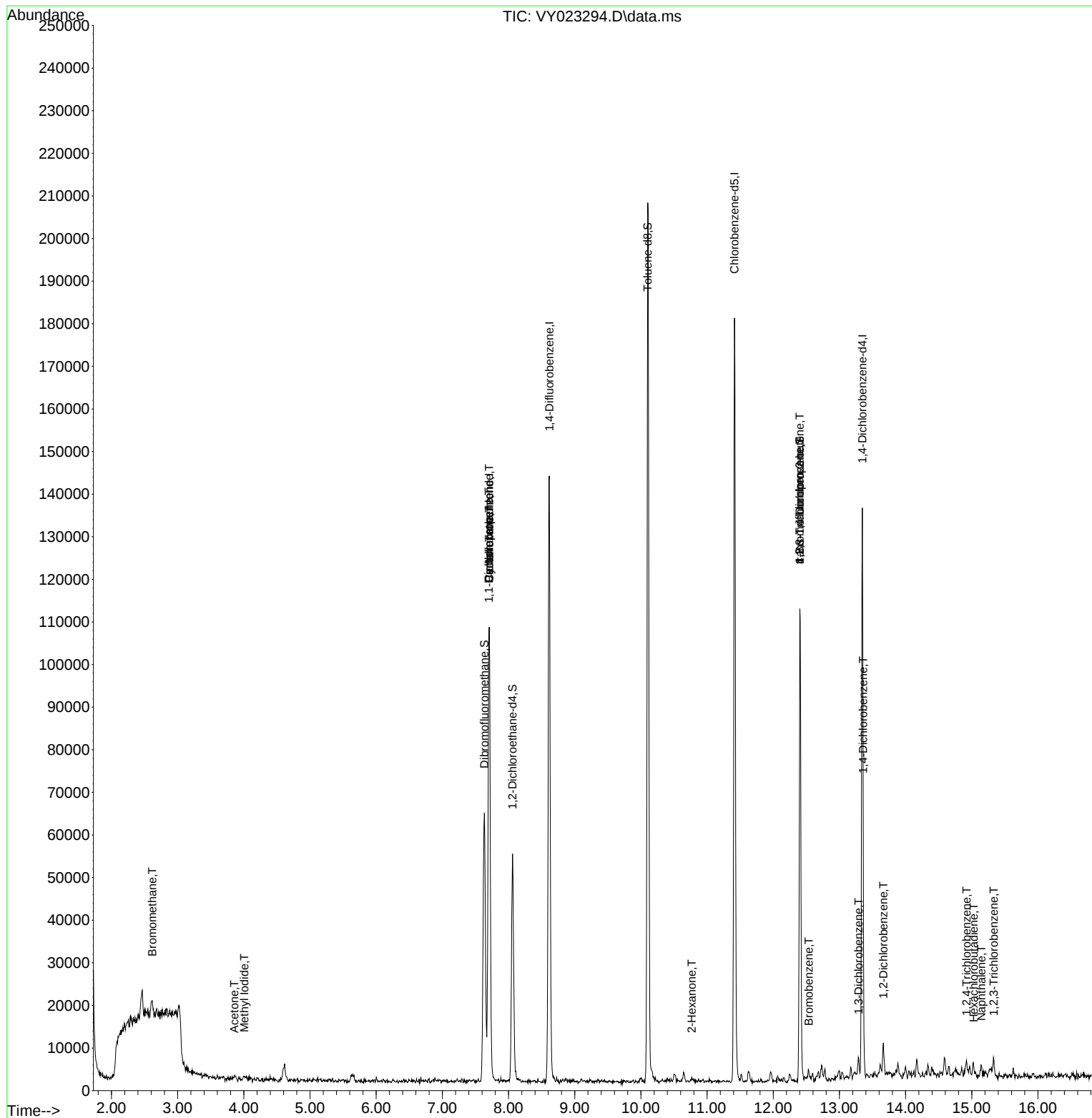
Internal Standards						
1) Pentafluorobenzene	7.707	168	87853	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	126875	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	104166	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	34548	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	40937	48.892	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	97.780%		
35) Dibromofluoromethane	7.634	113	46012	60.608	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	121.220%		
50) Toluene-d8	10.103	98	145086	48.920	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	97.840%		
62) 4-Bromofluorobenzene	12.402	95	35042	36.740	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	73.480%		
Target Compounds						Qvalue
5) Bromomethane	2.617	94	3178	2.964	ug/l #	61
10) Methyl Iodide	4.007	142	1520	1.635	ug/l #	71
16) Acetone	3.854	43	1037	5.717	ug/l #	88
20) Methylene Chloride	4.616	84	2380	Below Cal	#	78
31) Cyclohexane	7.707	56	1944	1.247	ug/l #	1
36) 1,1-Dichloropropene	7.701	75	6355	5.633	ug/l #	49
38) Carbon Tetrachloride	7.707	117	8560	6.985	ug/l #	18
59) 2-Hexanone	10.768	43	732	2.176	ug/l	79
76) 1,2,3-Trichloropropane	12.402	75	17421	52.249	ug/l #	100
77) Bromobenzene	12.536	156	707	1.215	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.402	75	17421	126.477	ug/l #	14
87) 1,3-Dichlorobenzene	13.292	146	1418	1.236	ug/l #	84
88) 1,4-Dichlorobenzene	13.359	146	1482	1.302	ug/l #	60
91) 1,2-Dichlorobenzene	13.664	146	1279	1.271	ug/l	82
93) 1,2,4-Trichlorobenzene	14.919	180	1220	2.051	ug/l #	83
94) Hexachlorobutadiene	15.029	225	507	1.450	ug/l	86
95) Naphthalene	15.145	128	2344	2.310	ug/l #	94
96) 1,2,3-Trichlorobenzene	15.334	180	1639	3.197	ug/l	88

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

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Quant Time: Sep 06 01:55:03 2025
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Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

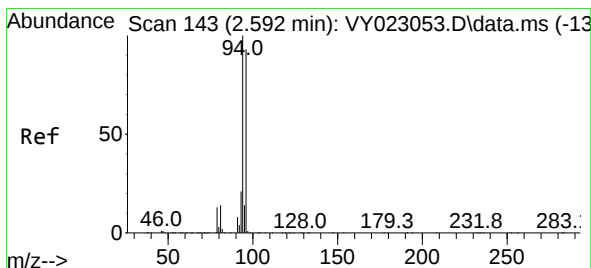
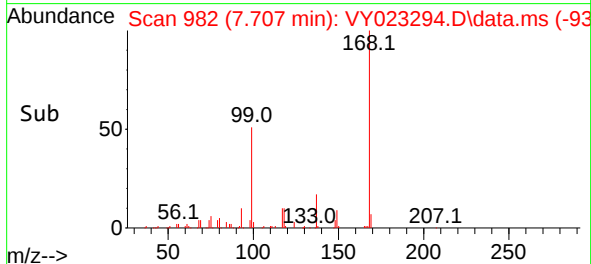
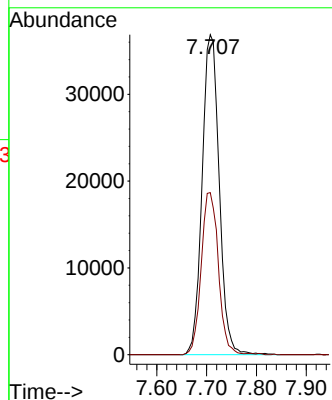
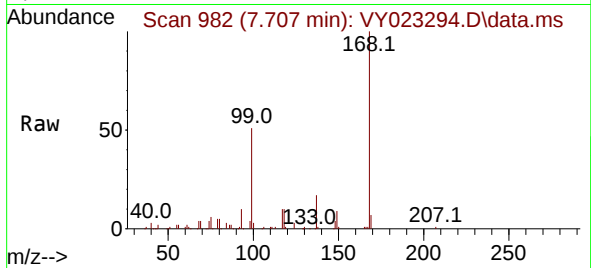




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY023294.D
Acq: 05 Sep 2025 12:02

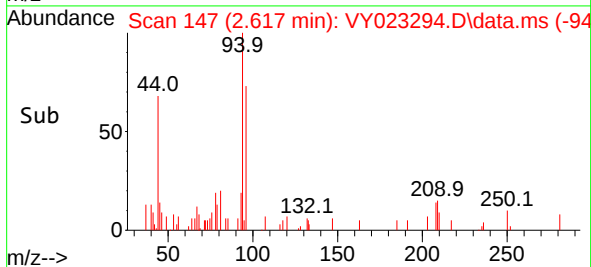
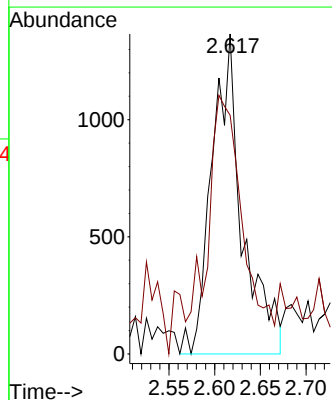
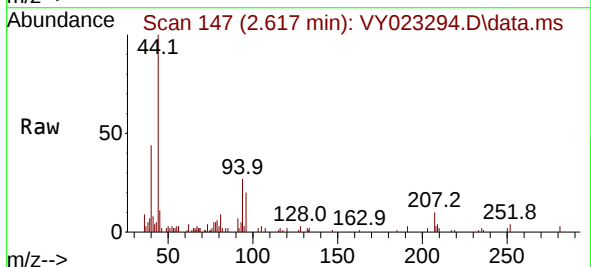
Instrument :
MSVOA_Y
ClientSampleId :

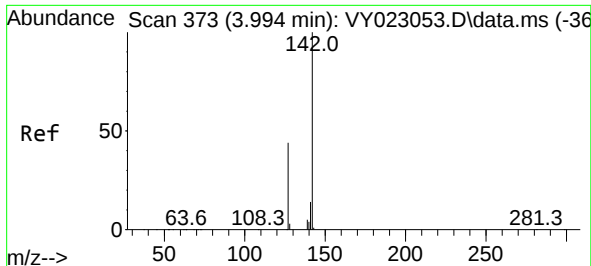
Tgt Ion:168 Resp: 87853
Ion Ratio Lower Upper
168 100
99 50.7 42.8 64.2



#5
Bromomethane
Concen: 2.964 ug/l
RT: 2.617 min Scan# 147
Delta R.T. 0.025 min
Lab File: VY023294.D
Acq: 05 Sep 2025 12:02

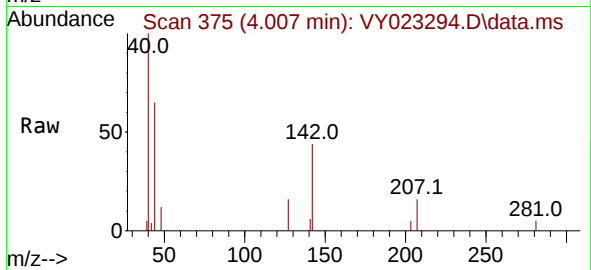
Tgt Ion: 94 Resp: 3178
Ion Ratio Lower Upper
94 100
96 56.0 74.6 112.0#



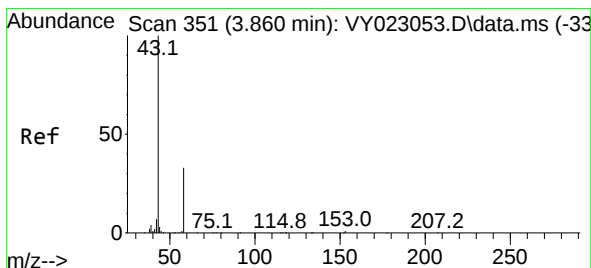
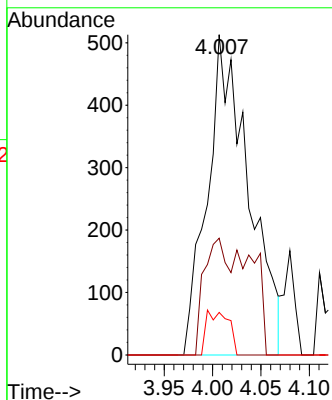
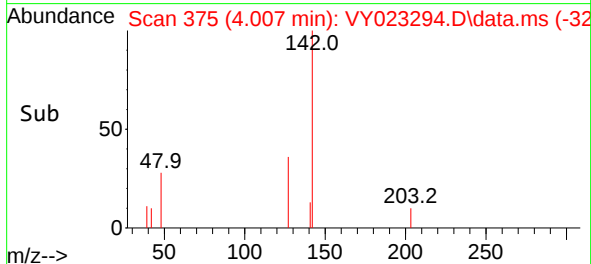


#10
Methyl Iodide
Concen: 1.635 ug/l
RT: 4.007 min Scan# 31
Delta R.T. 0.012 min
Lab File: VY023294.D
Acq: 05 Sep 2025 12:02

Instrument :
MSVOA_Y
ClientSampleId :

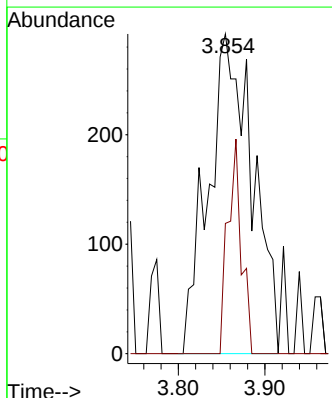
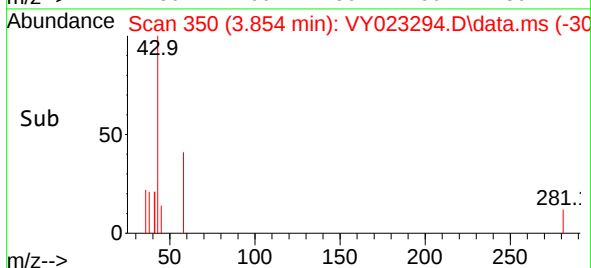
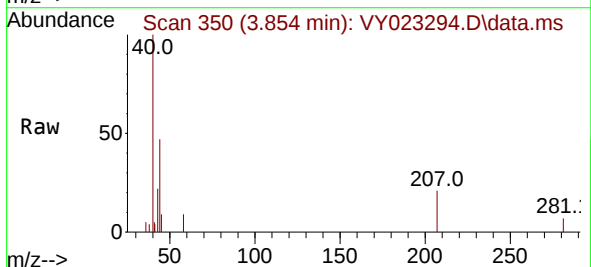


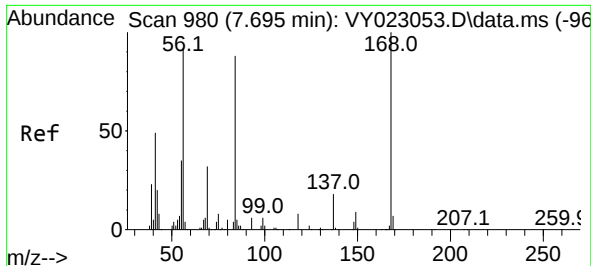
Tgt Ion:142 Resp: 1520
Ion Ratio Lower Upper
142 100
127 22.1 34.9 52.3#
141 7.4 11.3 16.9#



#16
Acetone
Concen: 5.717 ug/l
RT: 3.854 min Scan# 350
Delta R.T. -0.006 min
Lab File: VY023294.D
Acq: 05 Sep 2025 12:02

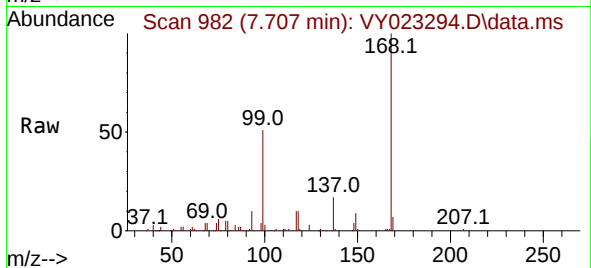
Tgt Ion: 43 Resp: 1037
Ion Ratio Lower Upper
43 100
58 40.8 27.1 40.7#



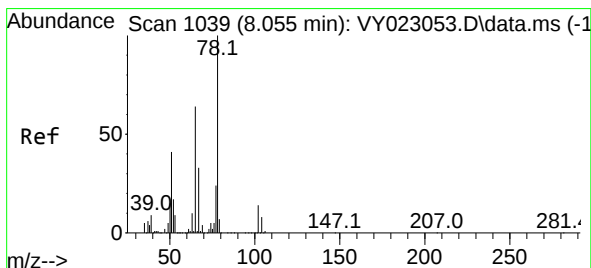
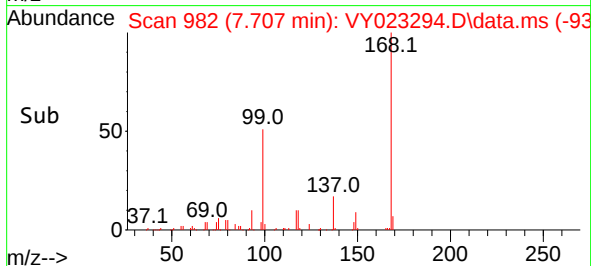
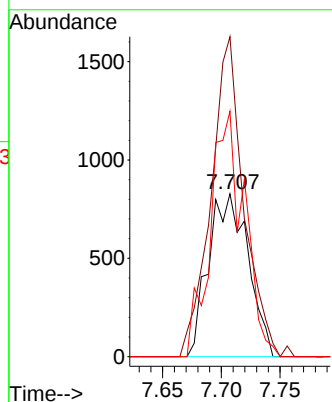


#31
Cyclohexane
Concen: 1.247 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.012 min
Lab File: VY023294.D
Acq: 05 Sep 2025 12:02

Instrument :
MSVOA_Y
ClientSampleId :

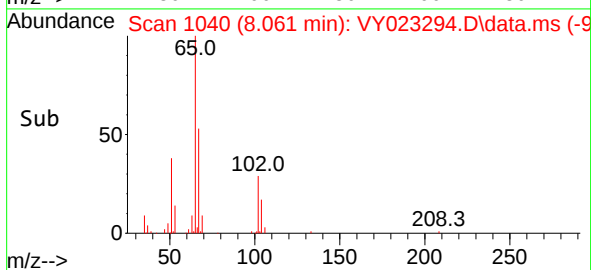
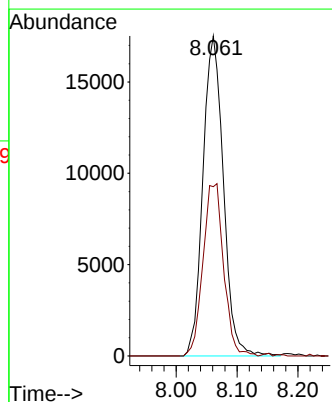
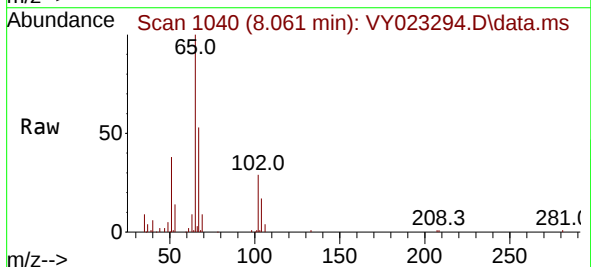


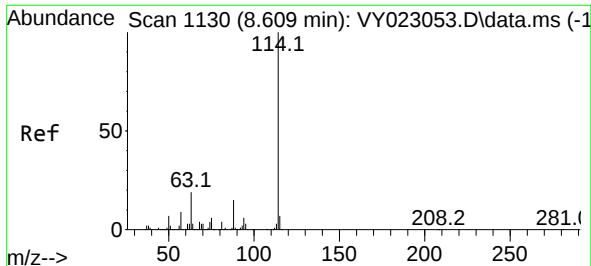
Tgt Ion: 56 Resp: 1944
Ion Ratio Lower Upper
56 100
69 196.5 28.2 42.2#
84 150.7 76.6 114.8#



#33
1,2-Dichloroethane-d4
Concen: 48.892 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VY023294.D
Acq: 05 Sep 2025 12:02

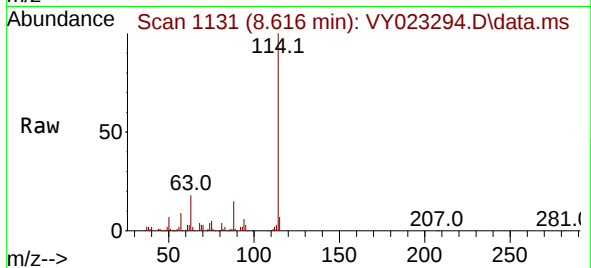
Tgt Ion: 65 Resp: 40937
Ion Ratio Lower Upper
65 100
67 54.2 0.0 106.8



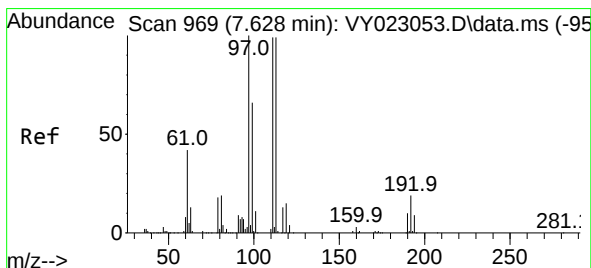
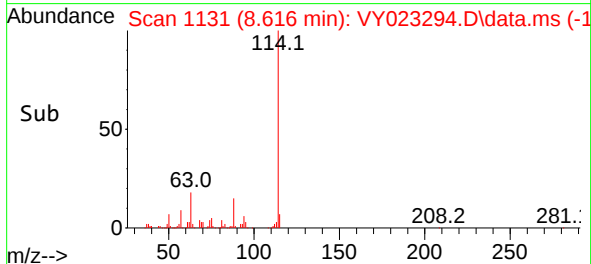
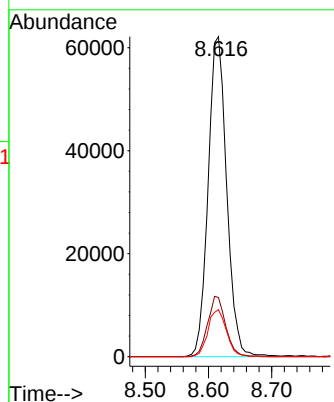


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.006 min
Lab File: VY023294.D
Acq: 05 Sep 2025 12:02

Instrument :
MSVOA_Y
ClientSampleId :

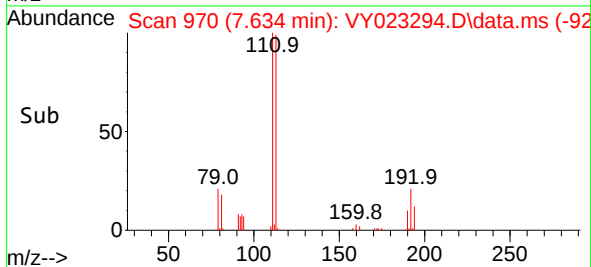
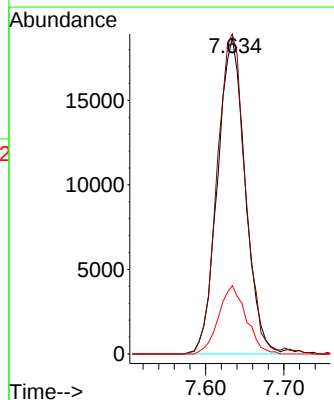
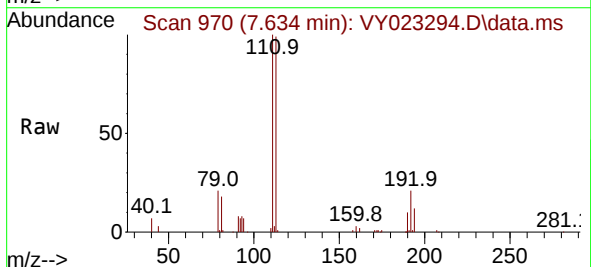


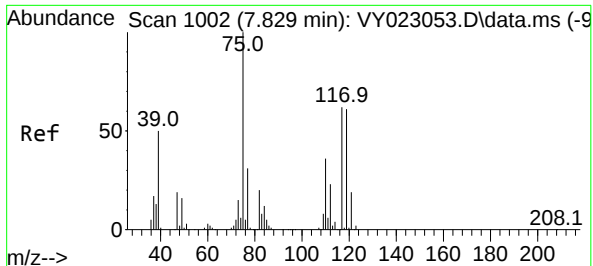
Tgt Ion:114 Resp: 126875
Ion Ratio Lower Upper
114 100
63 18.5 0.0 38.4
88 14.7 0.0 30.0



#35
Dibromofluoromethane
Concen: 60.608 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.006 min
Lab File: VY023294.D
Acq: 05 Sep 2025 12:02

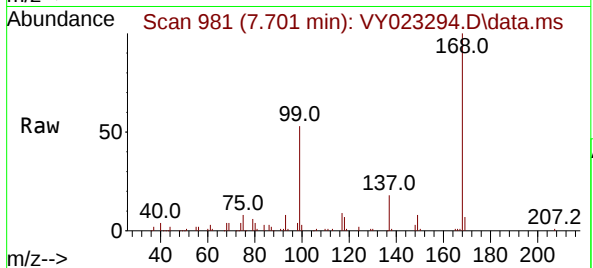
Tgt Ion:113 Resp: 46012
Ion Ratio Lower Upper
113 100
111 102.4 81.1 121.7
192 21.5 16.2 24.4



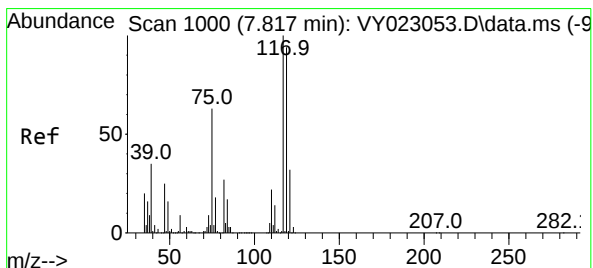
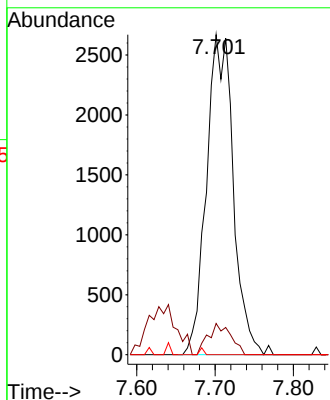
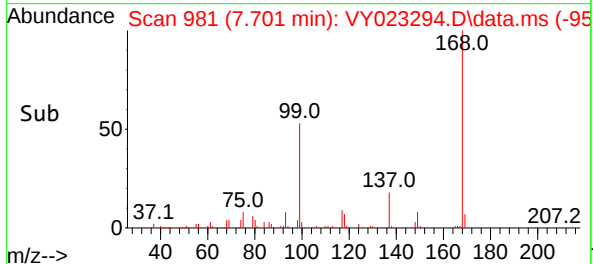


#36
1,1-Dichloropropene
Concen: 5.633 ug/l
RT: 7.701 min Scan# 981
Delta R.T. -0.128 min
Lab File: VY023294.D
Acq: 05 Sep 2025 12:02

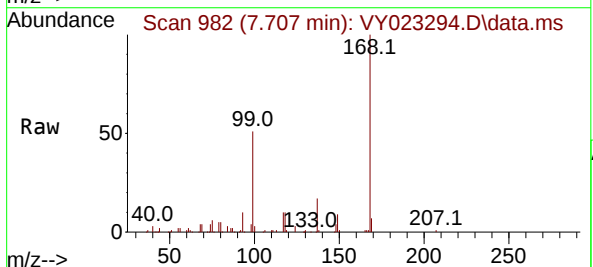
Instrument :
MSVOA_Y
ClientSampleId :



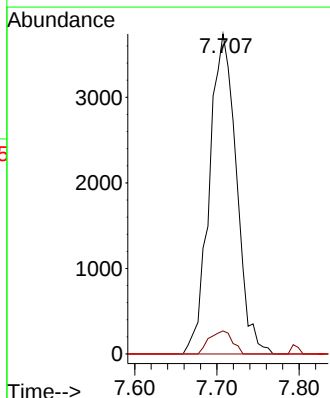
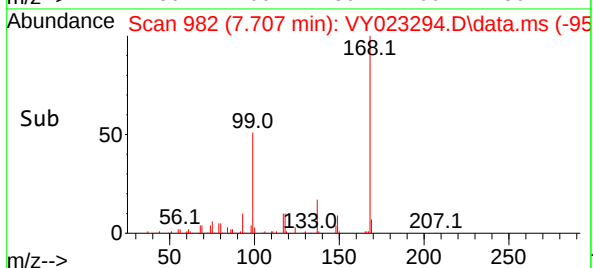
Tgt Ion: 75 Resp: 6355
Ion Ratio Lower Upper
75 100
110 8.2 18.1 54.4#
77 0.3 24.6 37.0#

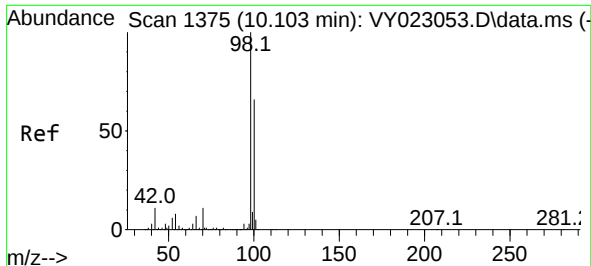


#38
Carbon Tetrachloride
Concen: 6.985 ug/l
RT: 7.707 min Scan# 982
Delta R.T. -0.110 min
Lab File: VY023294.D
Acq: 05 Sep 2025 12:02



Tgt Ion: 117 Resp: 8560
Ion Ratio Lower Upper
117 100
119 7.2 75.6 113.4#
121 0.0 25.8 38.8#

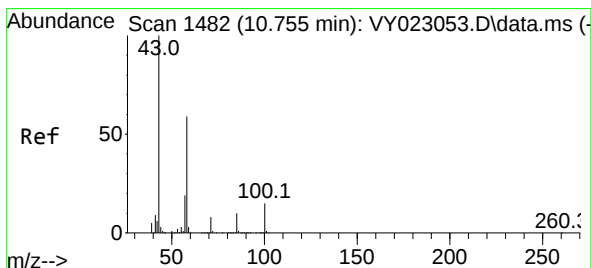
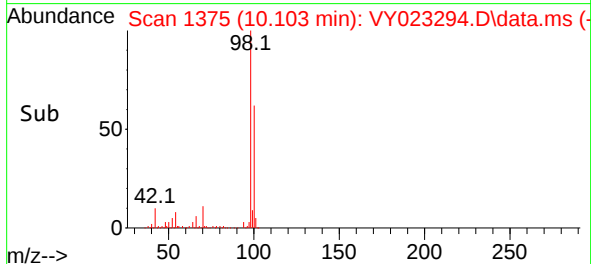
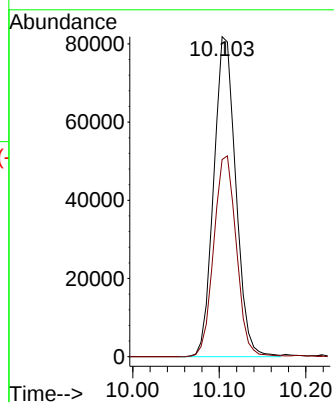
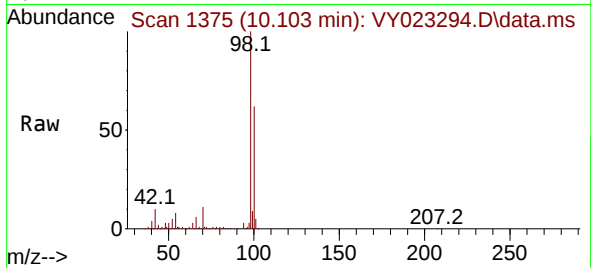




#50
Toluene-d8
Concen: 48.920 ug/l
RT: 10.103 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY023294.D
Acq: 05 Sep 2025 12:02

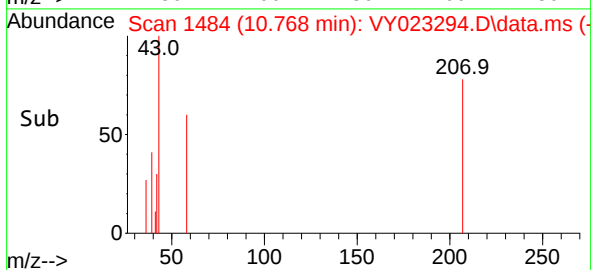
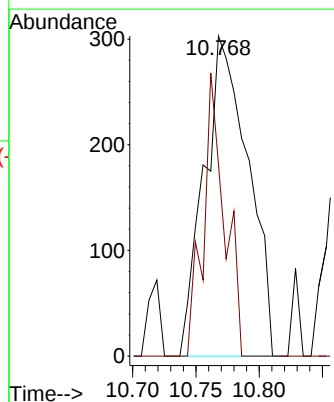
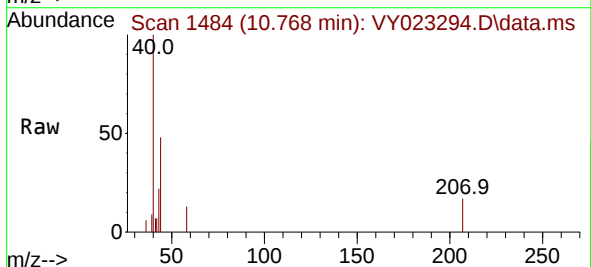
Instrument :
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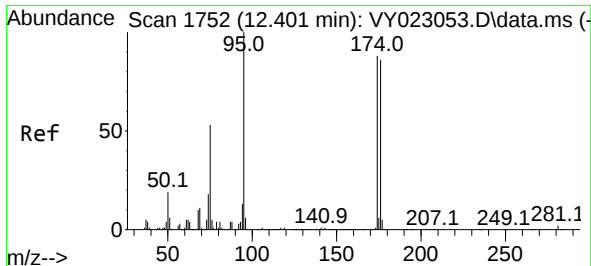
Tgt Ion: 98 Resp: 145086
Ion Ratio Lower Upper
98 100
100 64.1 52.3 78.5



#59
2-Hexanone
Concen: 2.176 ug/l
RT: 10.768 min Scan# 1484
Delta R.T. 0.012 min
Lab File: VY023294.D
Acq: 05 Sep 2025 12:02

Tgt Ion: 43 Resp: 732
Ion Ratio Lower Upper
43 100
58 42.9 29.5 88.5

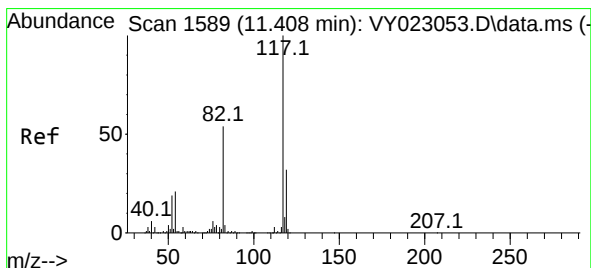
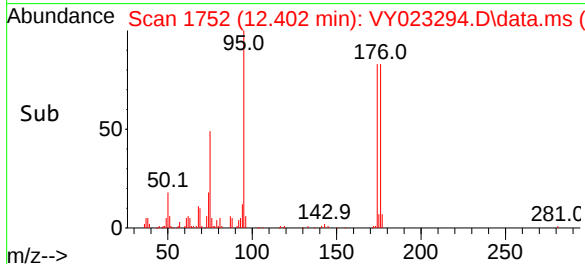
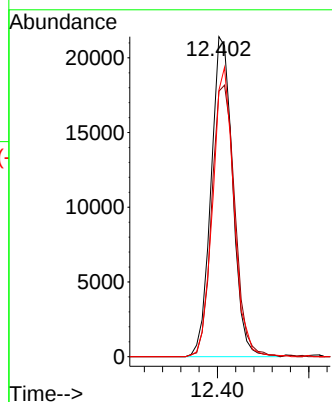
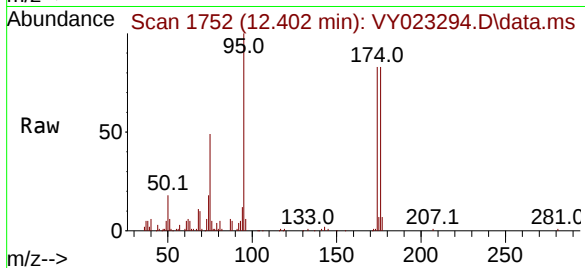




#62
4-Bromofluorobenzene
Concen: 36.740 ug/l
RT: 12.402 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY023294.D
Acq: 05 Sep 2025 12:02

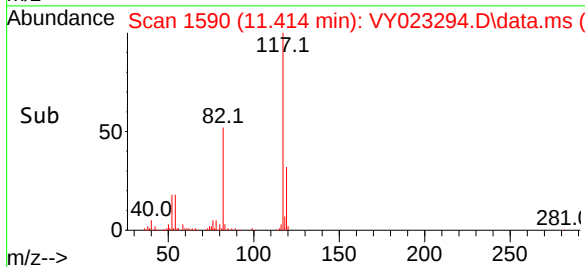
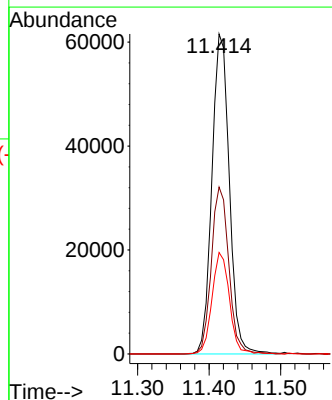
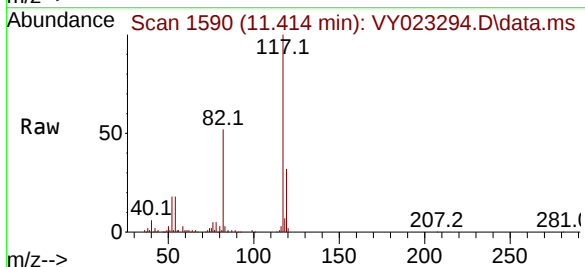
Instrument :
MSVOA_Y
ClientSampleId :

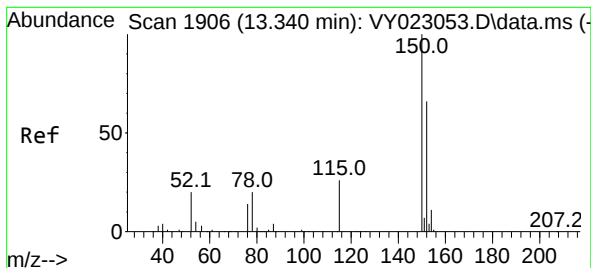
Tgt Ion: 95 Resp: 35042
Ion Ratio Lower Upper
95 100
174 90.9 0.0 171.6
176 88.8 0.0 167.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. 0.006 min
Lab File: VY023294.D
Acq: 05 Sep 2025 12:02

Tgt Ion: 117 Resp: 104166
Ion Ratio Lower Upper
117 100
82 52.2 43.4 65.0
119 31.7 25.6 38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1906

Delta R.T. 0.006 min

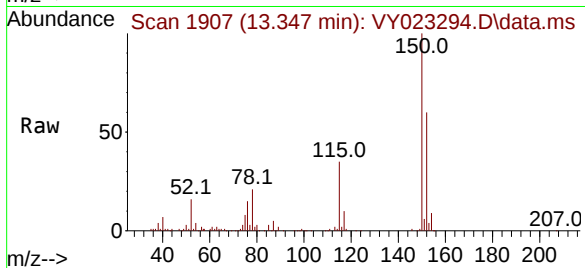
Lab File: VY023294.D

Acq: 05 Sep 2025 12:02

Instrument :

MSVOA_Y

ClientSampleId :



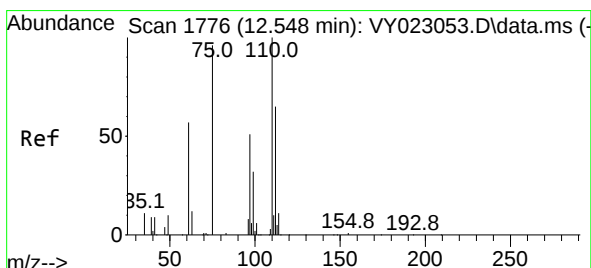
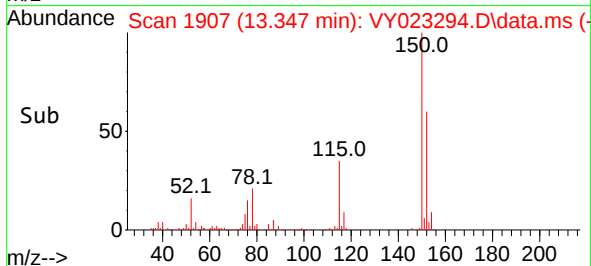
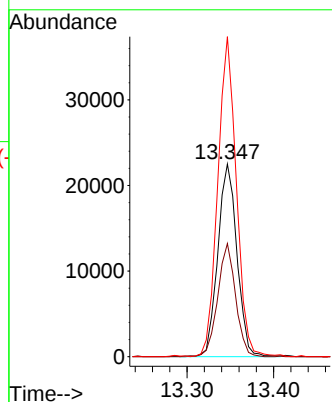
Tgt Ion:152 Resp: 34548

Ion Ratio Lower Upper

152 100

115 54.9 28.2 84.6

150 161.2 0.0 348.0



#76

1,2,3-Trichloropropane

Concen: 52.249 ug/l

RT: 12.402 min Scan# 1752

Delta R.T. -0.146 min

Lab File: VY023294.D

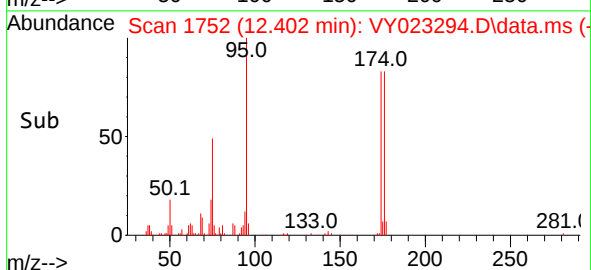
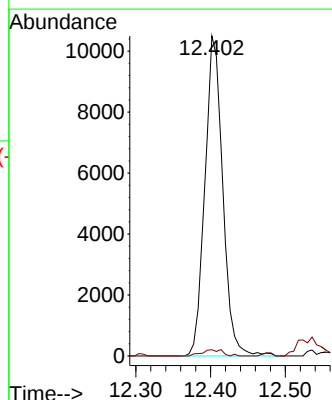
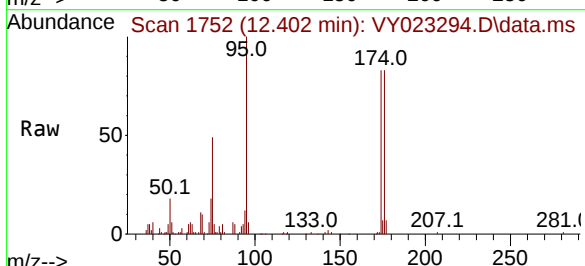
Acq: 05 Sep 2025 12:02

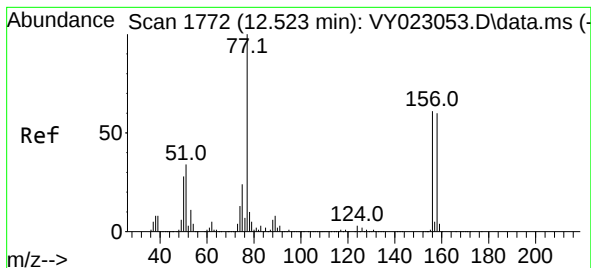
Tgt Ion: 75 Resp: 17421

Ion Ratio Lower Upper

75 100

77 2.3 0.0 0.0#





#77

Bromobenzene

Concen: 1.215 ug/l

RT: 12.536 min Scan# 1774

Delta R.T. 0.012 min

Lab File: VY023294.D

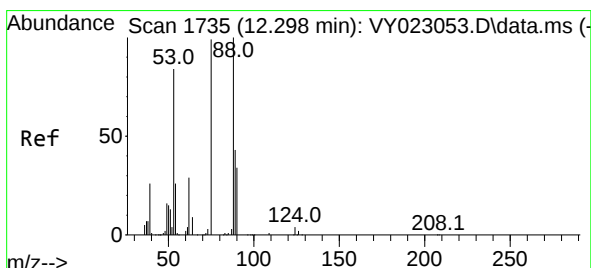
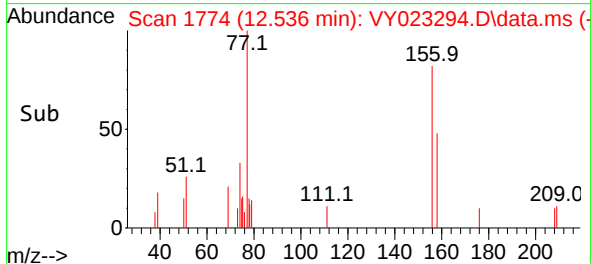
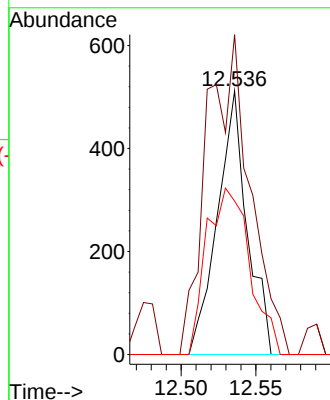
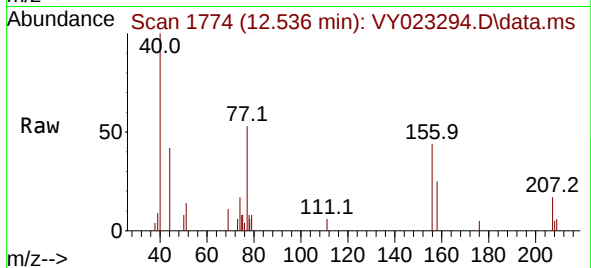
Acq: 05 Sep 2025 12:02

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:	156	Resp:	707
Ion	Ratio	Lower	Upper
156	100		
77	177.1	88.1	264.4
158	91.8	48.0	144.0



#81

trans-1,4-Dichloro-2-butene

Concen: 126.477 ug/l

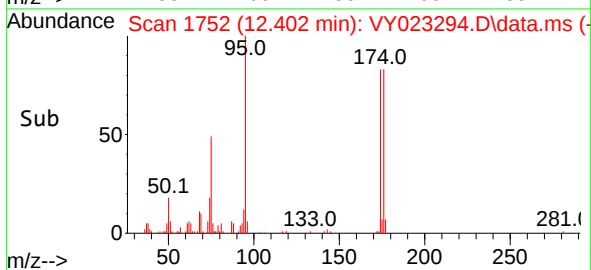
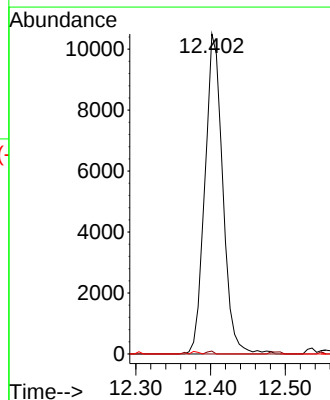
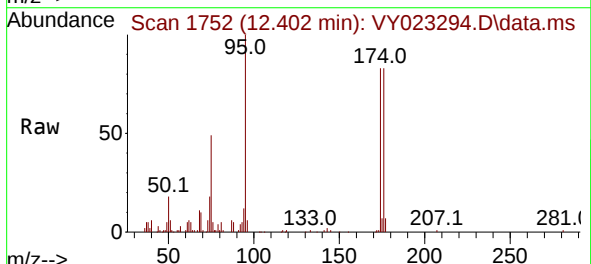
RT: 12.402 min Scan# 1752

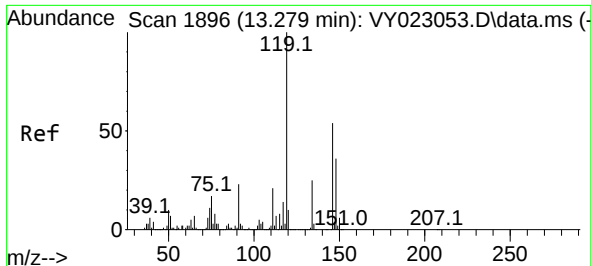
Delta R.T. 0.104 min

Lab File: VY023294.D

Acq: 05 Sep 2025 12:02

Tgt Ion:	75	Resp:	17421
Ion	Ratio	Lower	Upper
75	100		
53	0.3	70.8	106.2#
89	0.0	38.1	57.1#





#87

1,3-Dichlorobenzene

Concen: 1.236 ug/l

RT: 13.292 min Scan# 1898

Delta R.T. 0.012 min

Lab File: VY023294.D

Acq: 05 Sep 2025 12:02

Instrument :

MSVOA_Y

ClientSampleId :

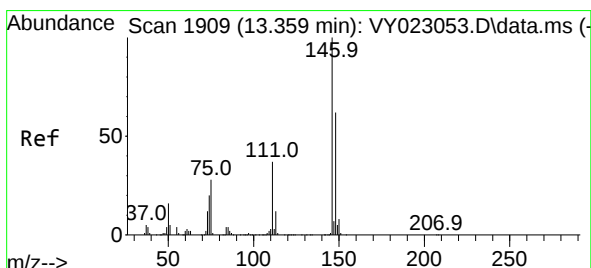
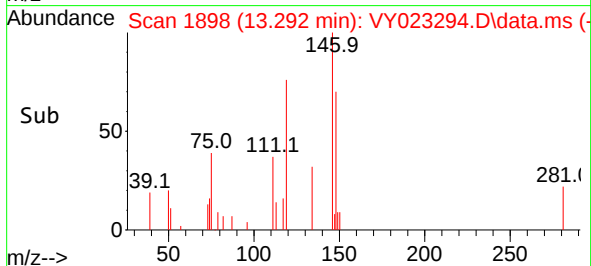
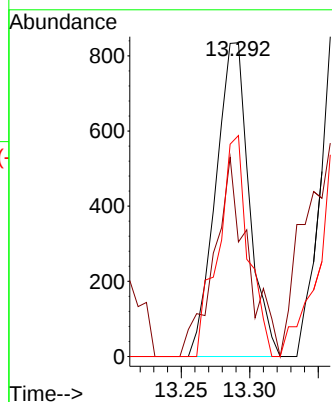
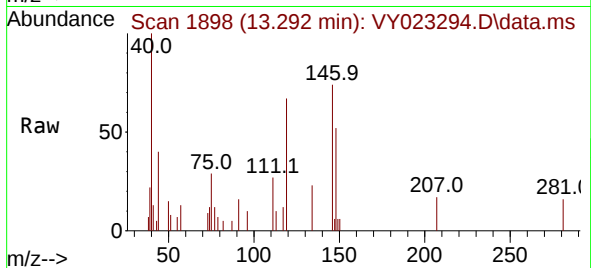
Tgt Ion:146 Resp: 1418

Ion Ratio Lower Upper

146 100

111 63.7 19.6 58.7#

148 63.6 32.5 97.5



#88

1,4-Dichlorobenzene

Concen: 1.302 ug/l

RT: 13.359 min Scan# 1909

Delta R.T. 0.000 min

Lab File: VY023294.D

Acq: 05 Sep 2025 12:02

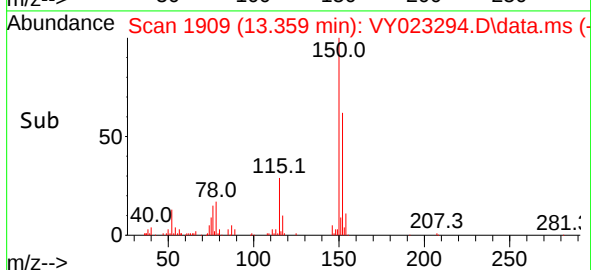
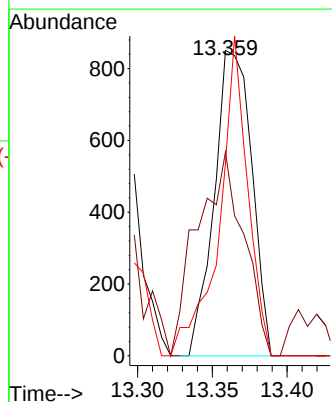
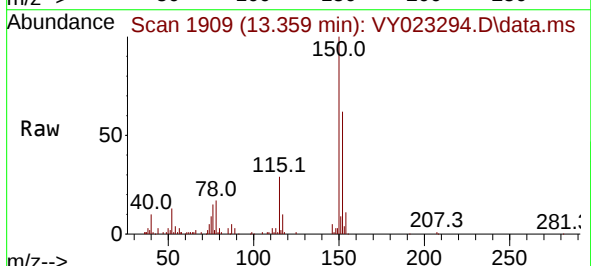
Tgt Ion:146 Resp: 1482

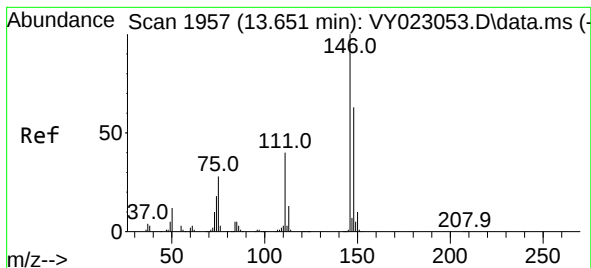
Ion Ratio Lower Upper

146 100

111 82.2 19.1 57.1#

148 79.0 31.6 94.7





#91

1,2-Dichlorobenzene

Concen: 1.271 ug/l

RT: 13.664 min Scan# 1959

Delta R.T. 0.012 min

Lab File: VY023294.D

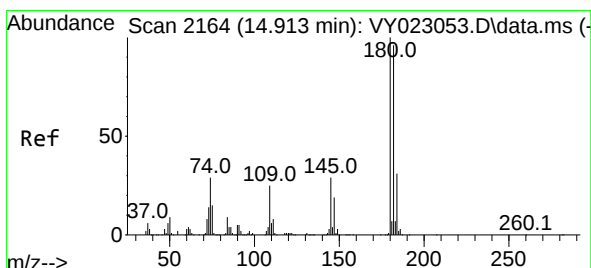
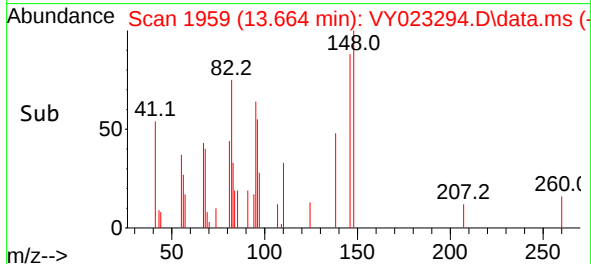
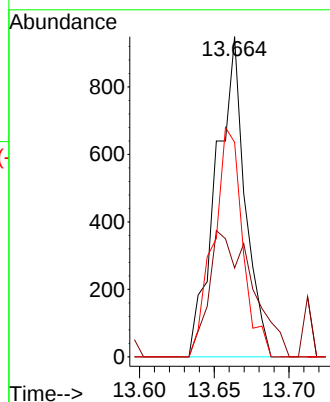
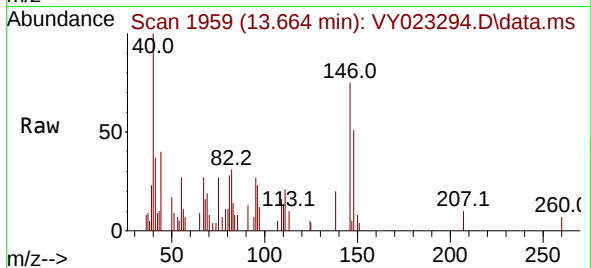
Acq: 05 Sep 2025 12:02

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:146	Resp:	1279
Ion Ratio	Lower	Upper
146	100	
111	59.2	20.3 60.8
148	72.2	32.2 96.6



#93

1,2,4-Trichlorobenzene

Concen: 2.051 ug/l

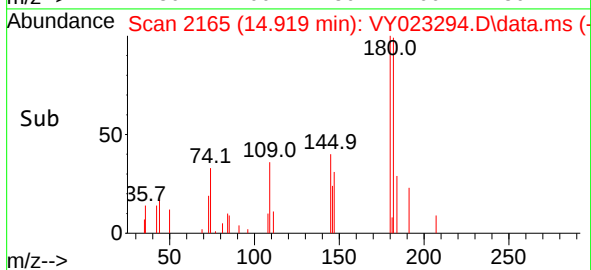
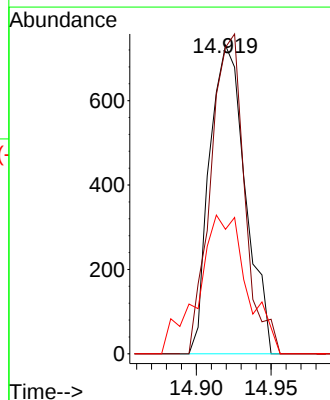
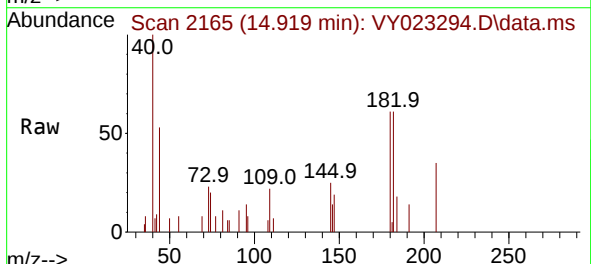
RT: 14.919 min Scan# 2165

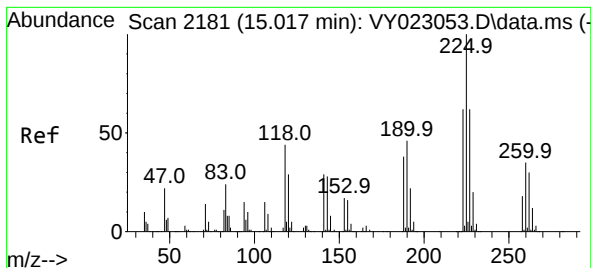
Delta R.T. 0.006 min

Lab File: VY023294.D

Acq: 05 Sep 2025 12:02

Tgt Ion:180	Resp:	1220
Ion Ratio	Lower	Upper
180	100	
182	97.7	46.8 140.4
145	60.9	14.4 43.4





#94

Hexachlorobutadiene

Concen: 1.450 ug/l

RT: 15.029 min Scan# 2181

Delta R.T. 0.012 min

Lab File: VY023294.D

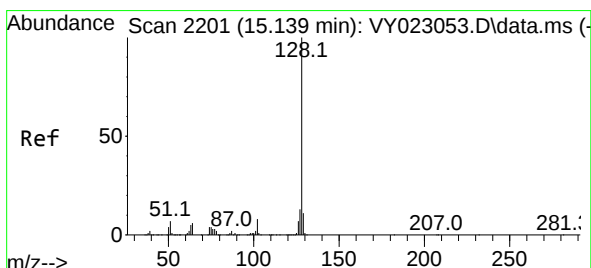
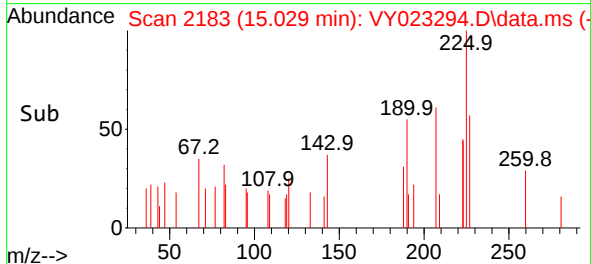
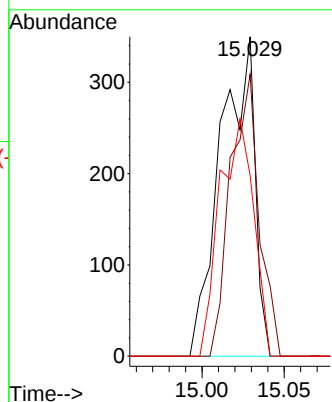
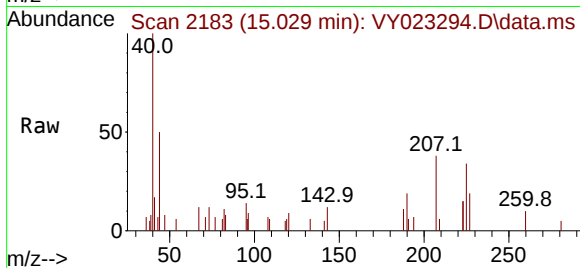
Acq: 05 Sep 2025 12:02

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:225	Resp:	507
Ion Ratio	Lower	Upper
225	100	
223	73.8	31.3 93.8
227	73.6	31.5 94.5



#95

Naphthalene

Concen: 2.310 ug/l

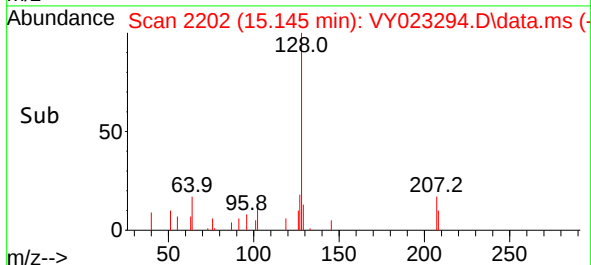
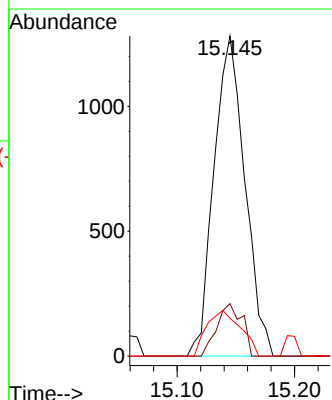
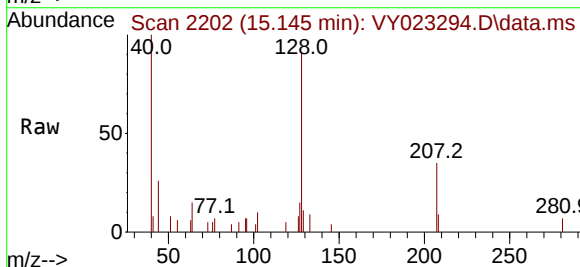
RT: 15.145 min Scan# 2202

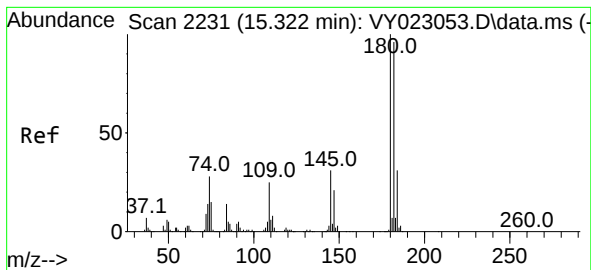
Delta R.T. 0.006 min

Lab File: VY023294.D

Acq: 05 Sep 2025 12:02

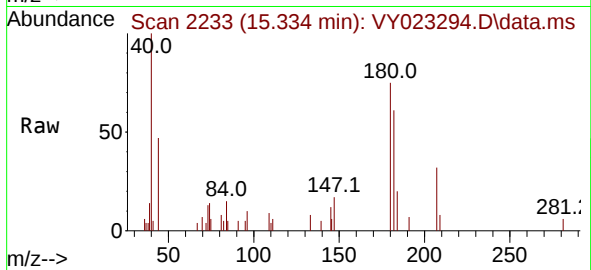
Tgt Ion:128	Resp:	2344
Ion Ratio	Lower	Upper
128	100	
127	13.4	10.4 15.6
129	15.7	9.0 13.4





#96
 1,2,3-Trichlorobenzene
 Concen: 3.197 ug/l
 RT: 15.334 min Scan# 21
 Delta R.T. 0.012 min
 Lab File: VY023294.D
 Acq: 05 Sep 2025 12:02

Instrument :
 MSVOA_Y
 ClientSampleId :



Tgt Ion:	180	Resp:	1639
Ion	Ratio	Lower	Upper
180	100		
182	83.8	47.9	143.7
145	37.5	15.9	47.7

