

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082225\
 Data File : VY023191.D
 Acq On : 22 Aug 2025 14:27
 Operator : SY/MD
 Sample : Q2917-01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 OR-02-082025

Quant Time: Aug 25 05:17:26 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	7.713	168	36308	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	47542	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	31437	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	6317	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	13065	37.756	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	75.520%
35) Dibromofluoromethane	7.634	113	12049	42.355	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	84.720%
50) Toluene-d8	10.109	98	48621	43.750	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	87.500%
62) 4-Bromofluorobenzene	12.401	95	8571	23.981	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	47.960%

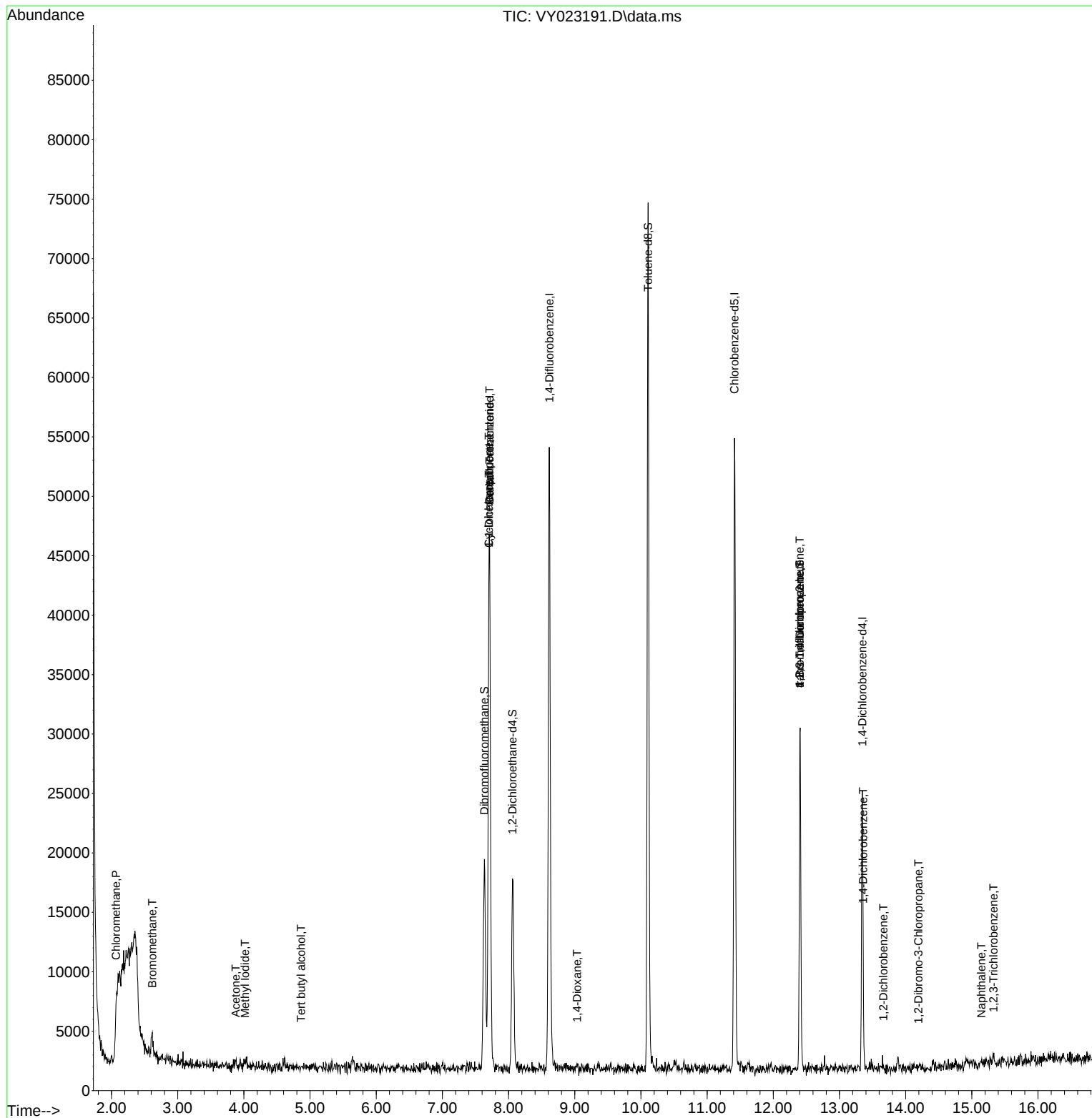
Target Compounds						Qvalue
3) Chloromethane	2.068	50	872	1.817	ug/l #	87
5) Bromomethane	2.616	94	1342	3.028	ug/l	96
10) Methyl Iodide	4.019	142	1261	3.283	ug/l #	68
11) Tert butyl alcohol	4.866	59	25	1.054	ug/l #	71
16) Acetone	3.878	43	305	4.068	ug/l #	41
20) Methylene Chloride	4.598	84	184	Below Cal	#	54
31) Cyclohexane	7.701	56	1091	1.693	ug/l #	14
36) 1,1-Dichloropropene	7.701	75	2609	6.171	ug/l #	49
38) Carbon Tetrachloride	7.713	117	3552	7.735	ug/l #	18
49) 1,4-Dioxane	9.036	88	19	9.416	ug/l #	24
76) 1,2,3-Trichloropropane	12.401	75	4378	71.811	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.401	75	4378	173.831	ug/l #	14
88) 1,4-Dichlorobenzene	13.358	146	253	1.216	ug/l #	47
91) 1,2-Dichlorobenzene	13.663	146	220	1.196	ug/l #	64
92) 1,2-Dibromo-3-Chloropr...	14.194	75	55	4.640	ug/l #	1
95) Naphthalene	15.145	128	589	3.175	ug/l #	79
96) 1,2,3-Trichlorobenzene	15.328	180	259	2.763	ug/l #	67

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

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Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

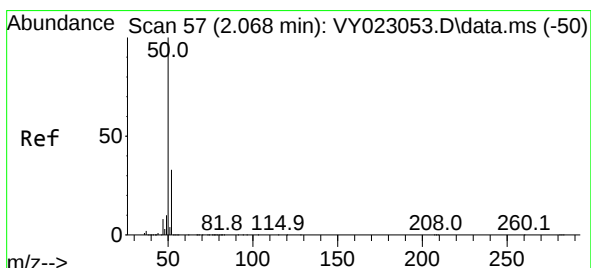
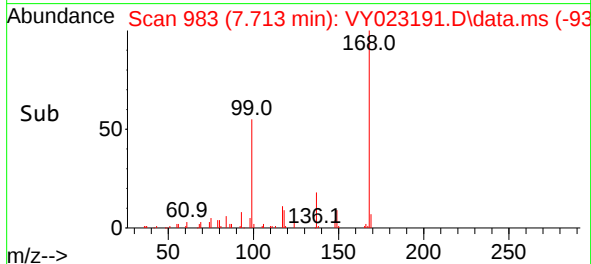
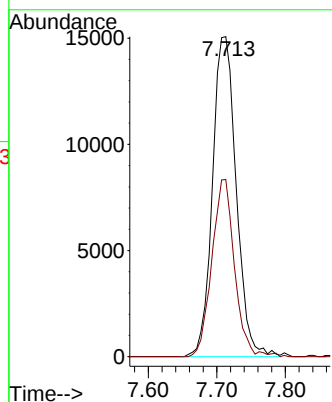
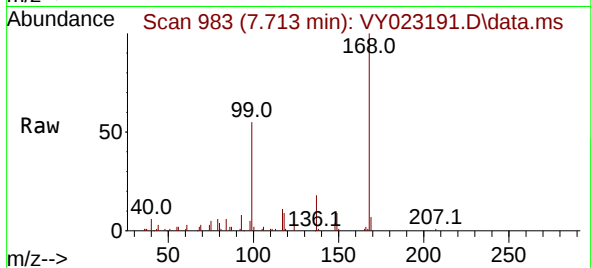




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023191.D
Acq: 22 Aug 2025 14:27

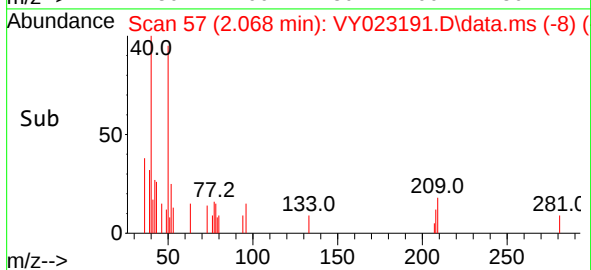
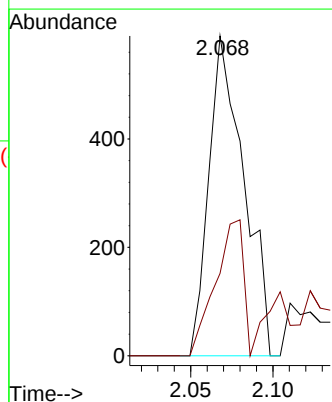
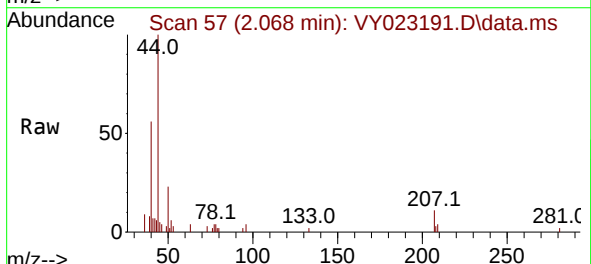
Instrument :
MSVOA_Y
ClientSampleId :
OR-02-082025

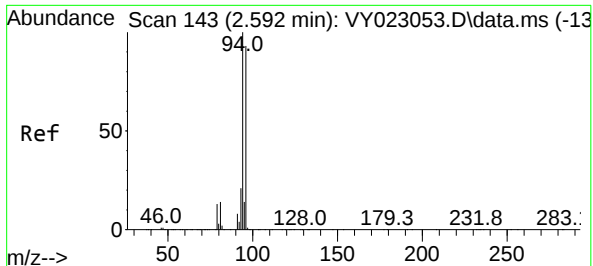
Tgt Ion:168 Resp: 36308
Ion Ratio Lower Upper
168 100
99 55.4 42.8 64.2



#3
Chloromethane
Concen: 1.817 ug/l
RT: 2.068 min Scan# 57
Delta R.T. -0.000 min
Lab File: VY023191.D
Acq: 22 Aug 2025 14:27

Tgt Ion: 50 Resp: 872
Ion Ratio Lower Upper
50 100
52 25.8 26.7 40.1#

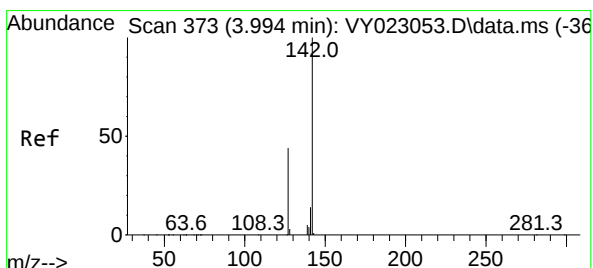
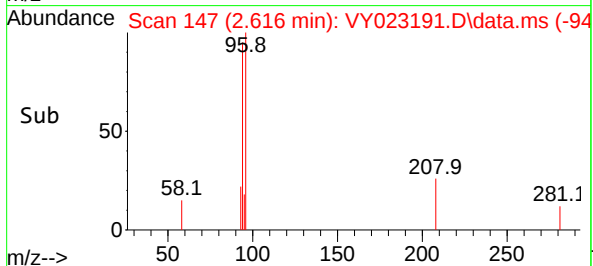
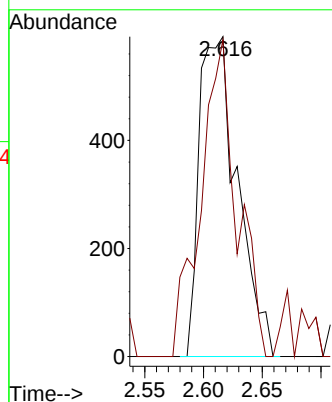
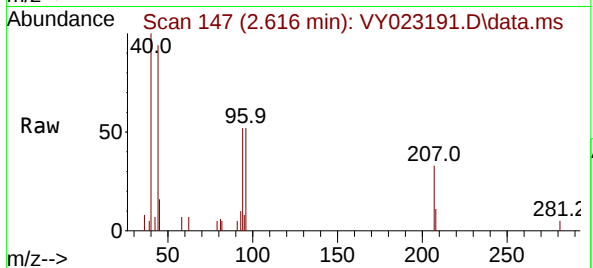




#5
Bromomethane
Concen: 3.028 ug/l
RT: 2.616 min Scan# 143
Delta R.T. 0.024 min
Lab File: VY023191.D
Acq: 22 Aug 2025 14:27

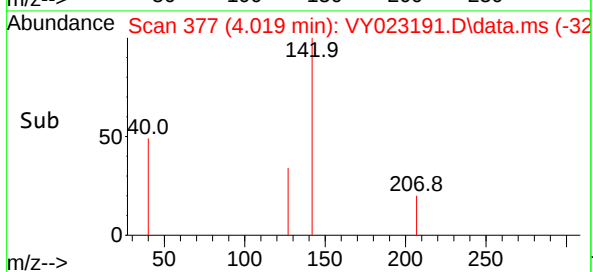
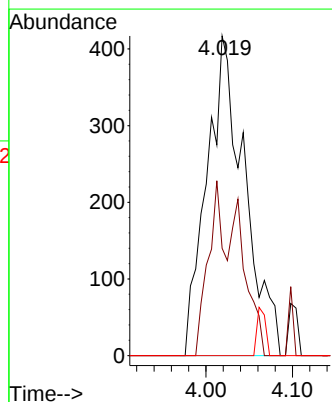
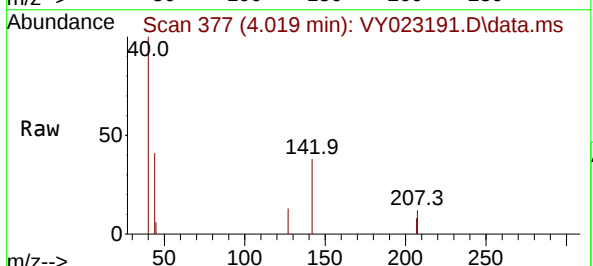
Instrument :
MSVOA_Y
ClientSampleId :
OR-02-082025

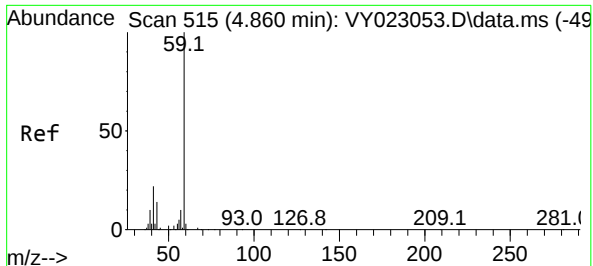
Tgt Ion: 94 Resp: 1342
Ion Ratio Lower Upper
94 100
96 89.7 74.6 112.0



#10
Methyl Iodide
Concen: 3.283 ug/l
RT: 4.019 min Scan# 377
Delta R.T. 0.024 min
Lab File: VY023191.D
Acq: 22 Aug 2025 14:27

Tgt Ion: 142 Resp: 1261
Ion Ratio Lower Upper
142 100
127 23.7 34.9 52.3#
141 0.0 11.3 16.9#





#11

Tert butyl alcohol

Concen: 1.054 ug/l

RT: 4.866 min Scan# 515

Delta R.T. 0.006 min

Lab File: VY023191.D

Acq: 22 Aug 2025 14:27

Instrument :

MSVOA_Y

ClientSampleId :

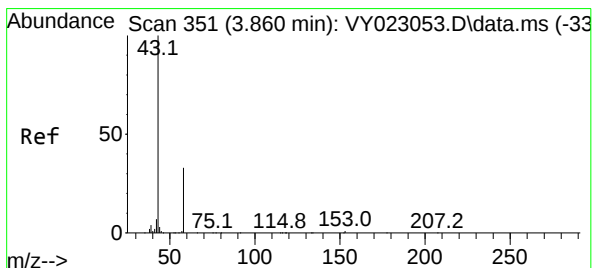
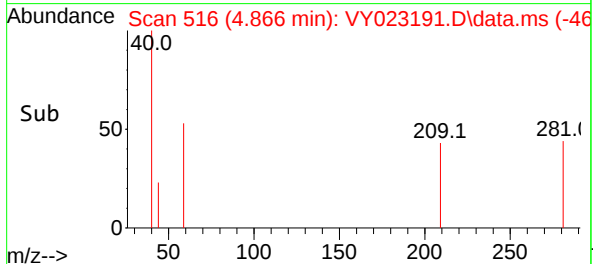
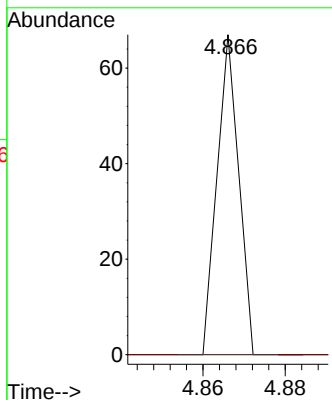
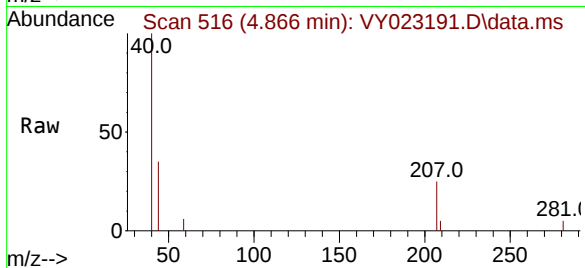
OR-02-082025

Tgt Ion: 59 Resp: 25

Ion Ratio Lower Upper

59 100

57 0.0 8.6 13.0#



#16

Acetone

Concen: 4.068 ug/l

RT: 3.878 min Scan# 354

Delta R.T. 0.018 min

Lab File: VY023191.D

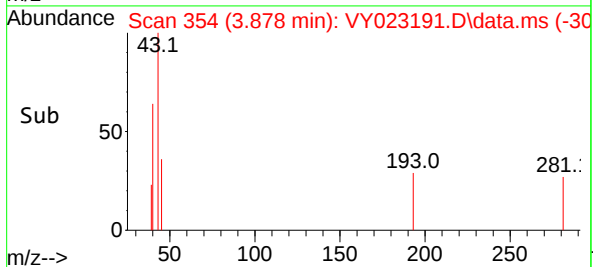
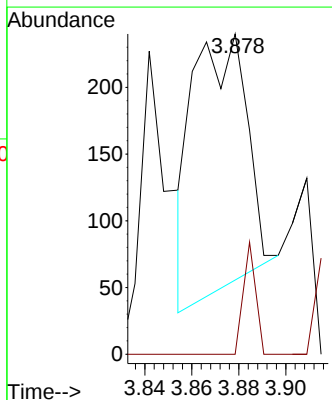
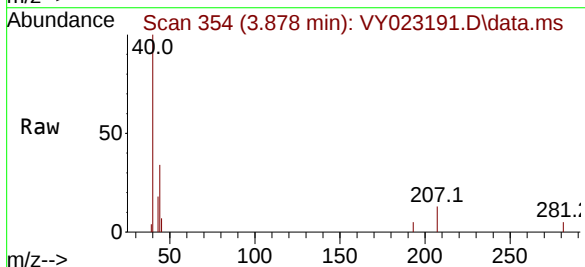
Acq: 22 Aug 2025 14:27

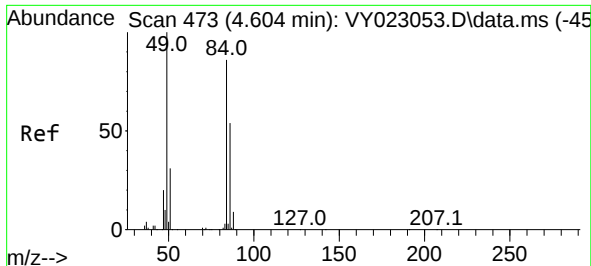
Tgt Ion: 43 Resp: 305

Ion Ratio Lower Upper

43 100

58 0.0 27.1 40.7#

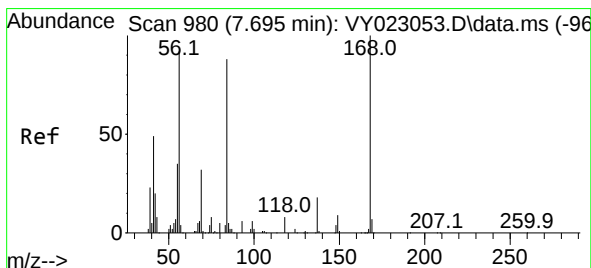
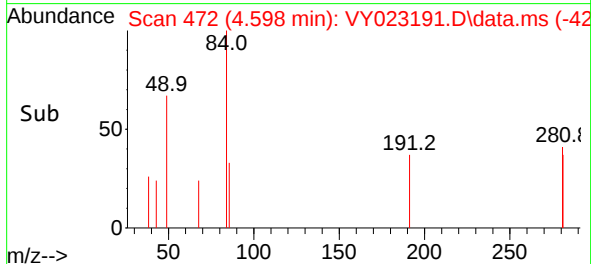
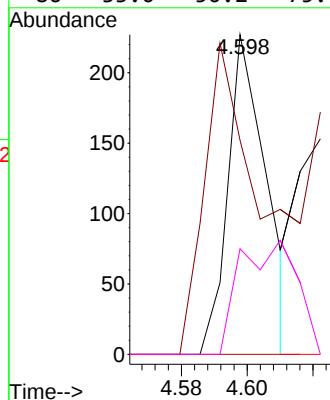
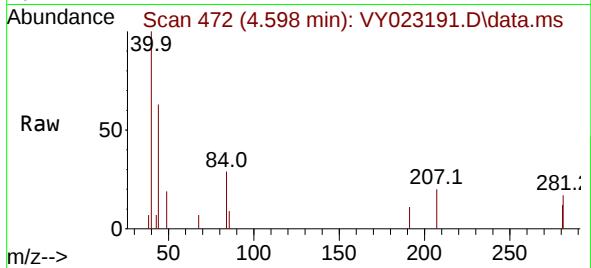




#20
Methylene Chloride
Concen: Below Cal
RT: 4.598 min Scan# 41
Delta R.T. -0.006 min
Lab File: VY023191.D
Acq: 22 Aug 2025 14:27

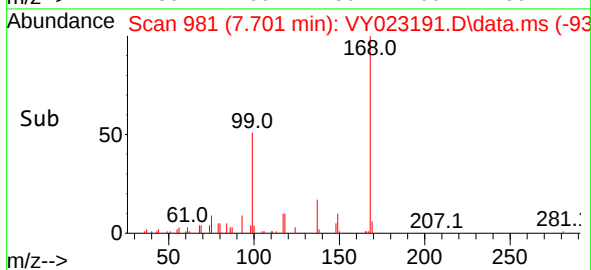
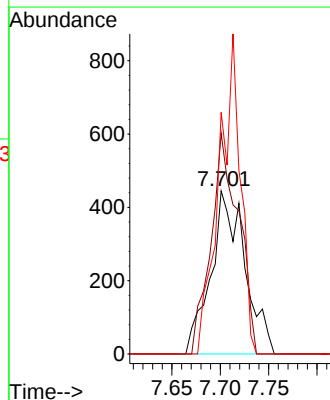
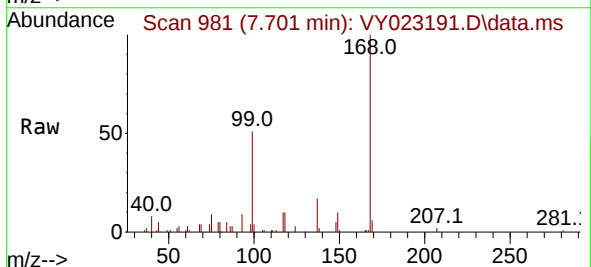
Instrument :
MSVOA_Y
ClientSampleId :
OR-02-082025

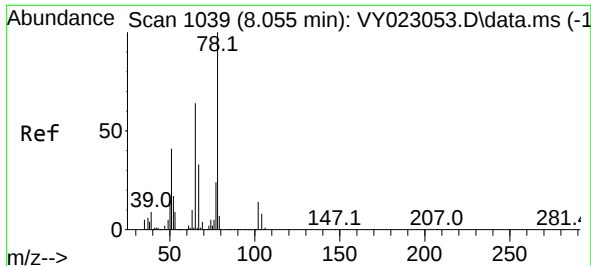
Tgt Ion:	84	Resp:	184
Ion	Ratio	Lower	Upper
84	100		
49	67.0	93.0	139.6#
51	0.0	29.0	43.4#
86	33.0	50.2	75.4#



#31
Cyclohexane
Concen: 1.693 ug/l
RT: 7.701 min Scan# 981
Delta R.T. 0.006 min
Lab File: VY023191.D
Acq: 22 Aug 2025 14:27

Tgt Ion:	56	Resp:	1091
Ion	Ratio	Lower	Upper
56	100		
69	135.3	28.2	42.2#
84	148.1	76.6	114.8#





#33

1,2-Dichloroethane-d4

Concen: 37.756 ug/l

RT: 8.061 min Scan# 1106

Delta R.T. 0.006 min

Lab File: VY023191.D

Acq: 22 Aug 2025 14:27

Instrument :

MSVOA_Y

ClientSampleId :

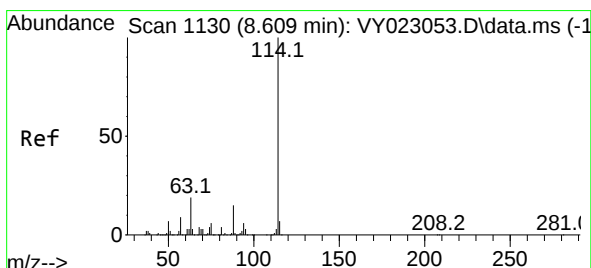
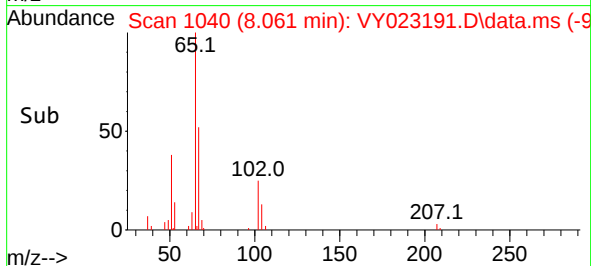
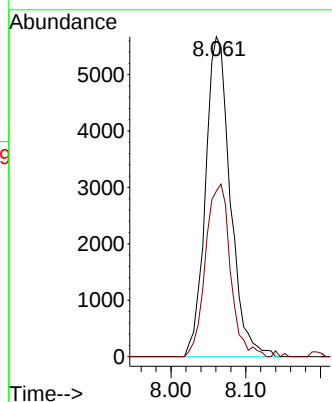
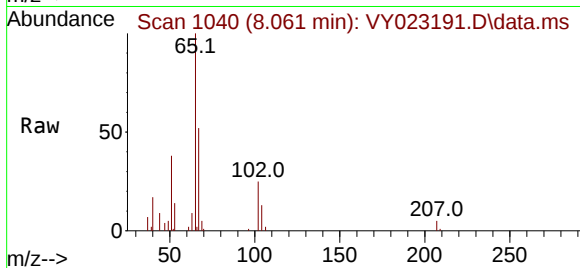
OR-02-082025

Tgt Ion: 65 Resp: 13065

Ion Ratio Lower Upper

65 100

67 54.1 0.0 106.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.615 min Scan# 1131

Delta R.T. 0.006 min

Lab File: VY023191.D

Acq: 22 Aug 2025 14:27

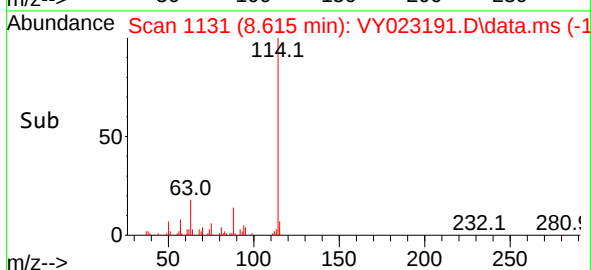
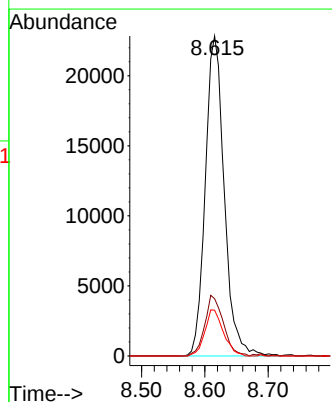
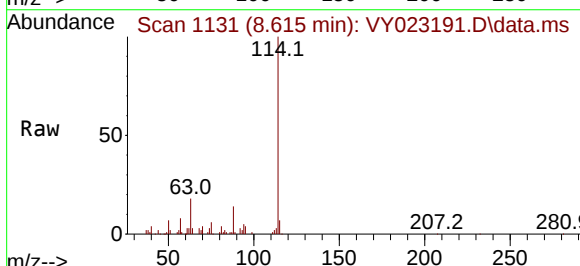
Tgt Ion: 114 Resp: 47542

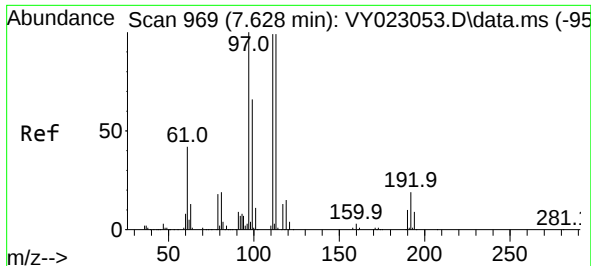
Ion Ratio Lower Upper

114 100

63 17.9 0.0 38.4

88 14.3 0.0 30.0

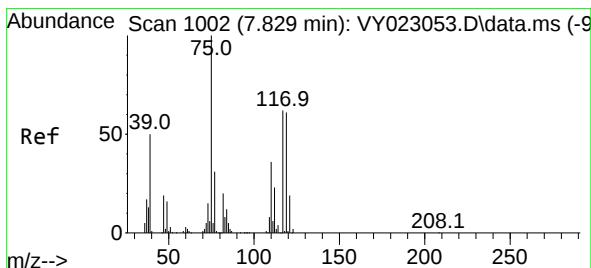
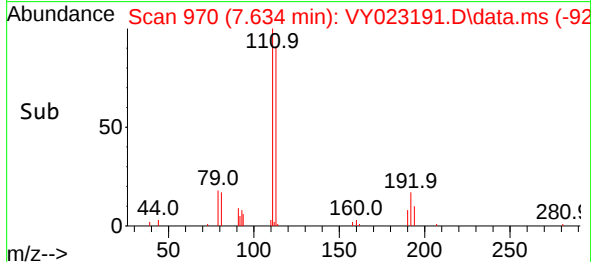
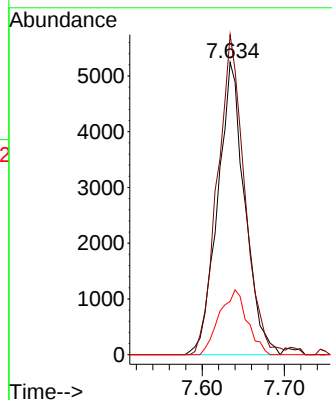
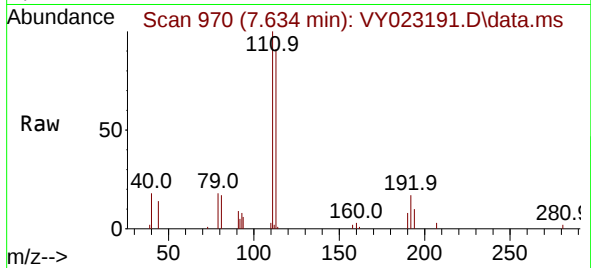




#35
Dibromofluoromethane
Concen: 42.355 ug/l
RT: 7.634 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023191.D
Acq: 22 Aug 2025 14:27

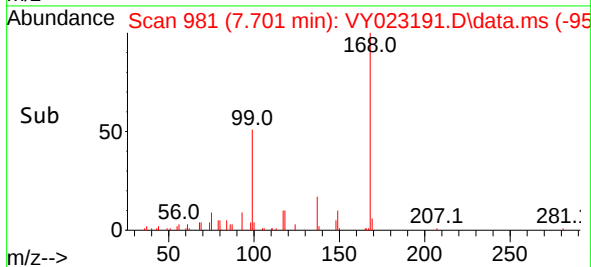
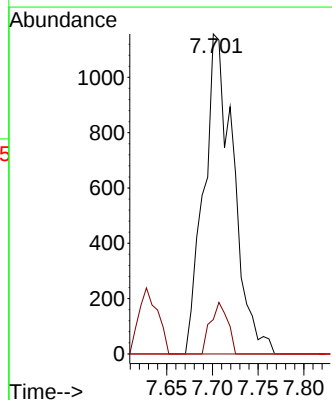
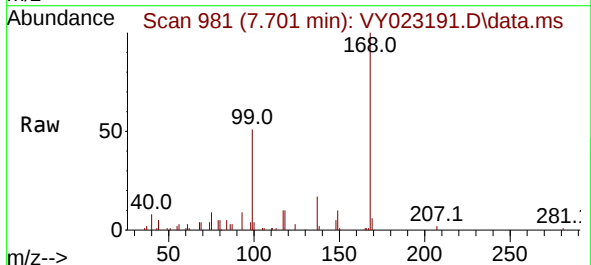
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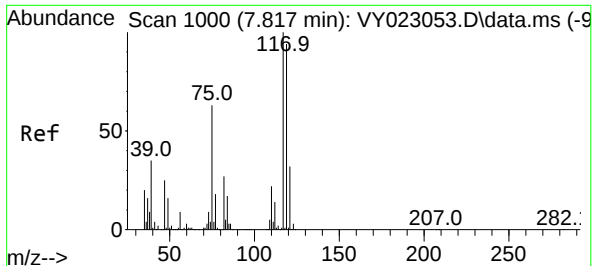
Tgt Ion:113 Resp: 12049
Ion Ratio Lower Upper
113 100
111 109.2 81.1 121.7
192 22.6 16.2 24.4



#36
1,1-Dichloropropene
Concen: 6.171 ug/l
RT: 7.701 min Scan# 981
Delta R.T. -0.128 min
Lab File: VY023191.D
Acq: 22 Aug 2025 14:27

Tgt Ion: 75 Resp: 2609
Ion Ratio Lower Upper
75 100
110 9.3 18.1 54.4#
77 0.0 24.6 37.0#

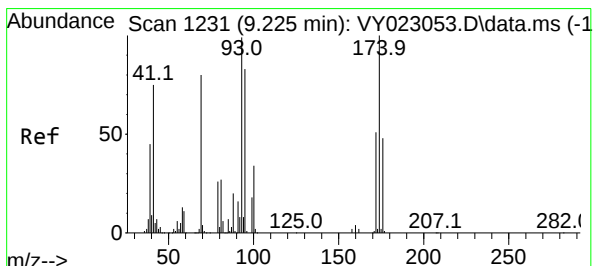
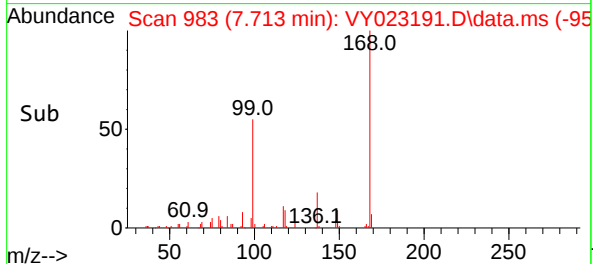
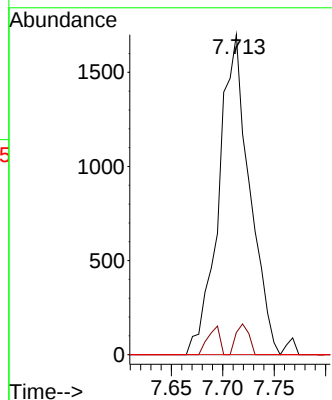
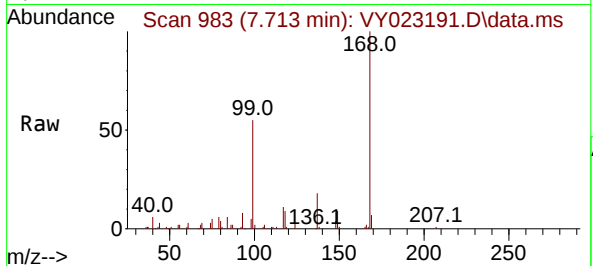




#38
Carbon Tetrachloride
Concen: 7.735 ug/l
RT: 7.713 min Scan# 91
Delta R.T. -0.104 min
Lab File: VY023191.D
Acq: 22 Aug 2025 14:27

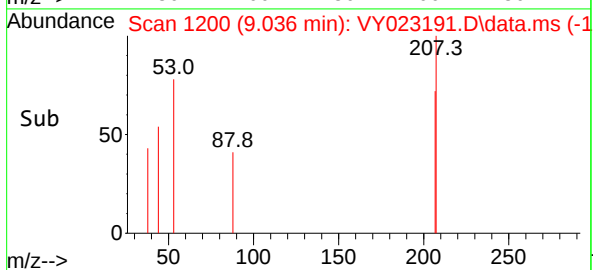
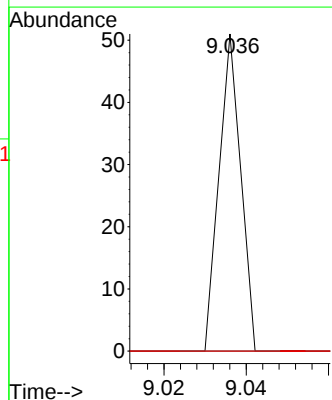
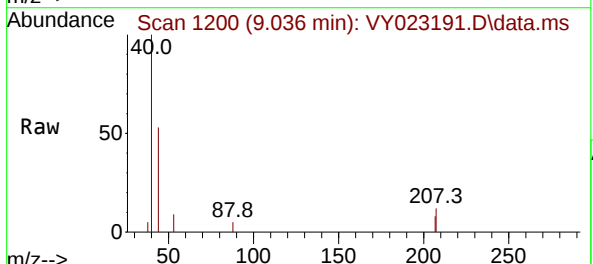
Instrument :
MSVOA_Y
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OR-02-082025

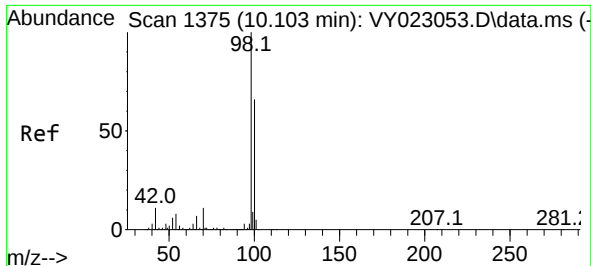
Tgt Ion: 117 Resp: 3552
Ion Ratio Lower Upper
117 100
119 6.9 75.6 113.4#
121 0.0 25.8 38.8#



#49
1,4-Dioxane
Concen: 9.416 ug/l
RT: 9.036 min Scan# 1200
Delta R.T. -0.189 min
Lab File: VY023191.D
Acq: 22 Aug 2025 14:27

Tgt Ion: 88 Resp: 19
Ion Ratio Lower Upper
88 100
43 0.0 24.3 36.5#
58 0.0 55.4 83.0#

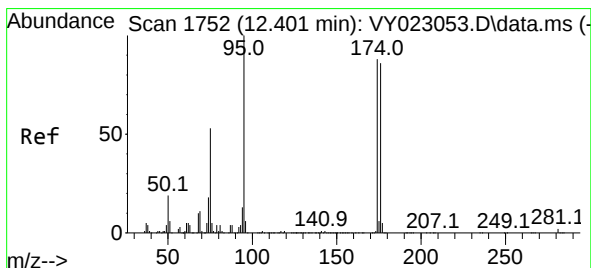
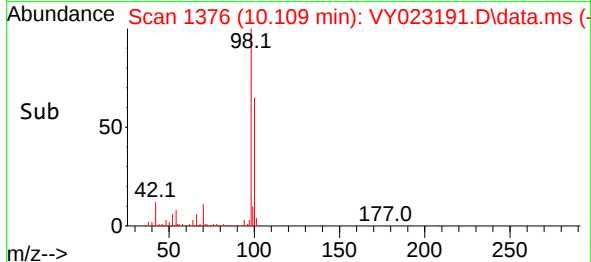
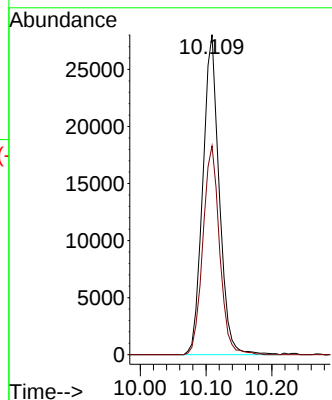
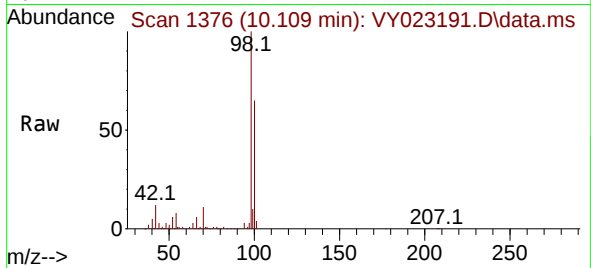




#50
Toluene-d8
Concen: 43.750 ug/l
RT: 10.109 min Scan# 1375
Delta R.T. 0.006 min
Lab File: VY023191.D
Acq: 22 Aug 2025 14:27

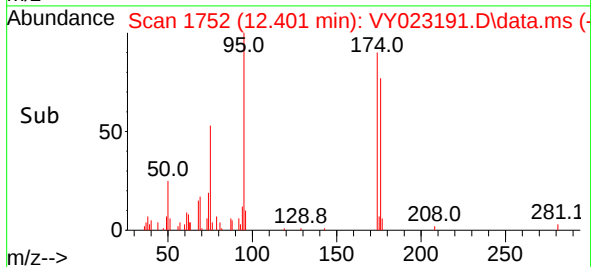
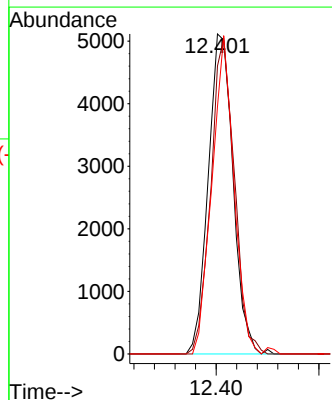
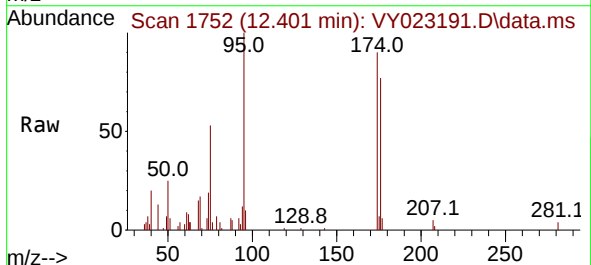
Instrument :
MSVOA_Y
ClientSampleId :
OR-02-082025

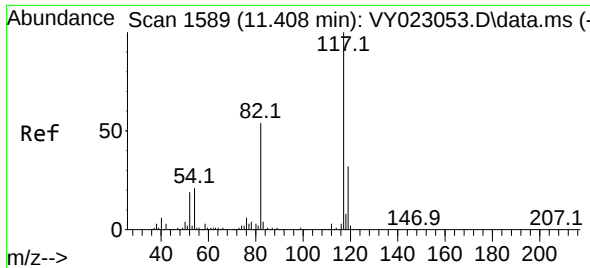
Tgt Ion: 98 Resp: 48621
Ion Ratio Lower Upper
98 100
100 66.2 52.3 78.5



#62
4-Bromofluorobenzene
Concen: 23.981 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023191.D
Acq: 22 Aug 2025 14:27

Tgt Ion: 95 Resp: 8571
Ion Ratio Lower Upper
95 100
174 93.7 0.0 171.6
176 88.1 0.0 167.6

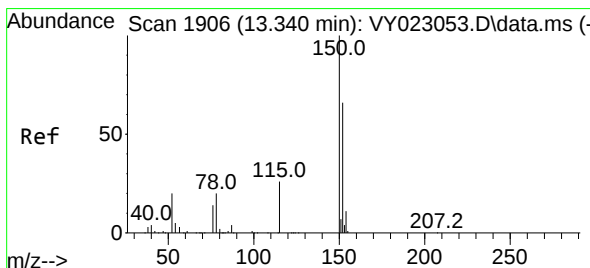
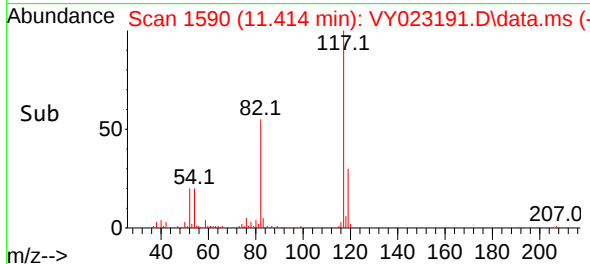
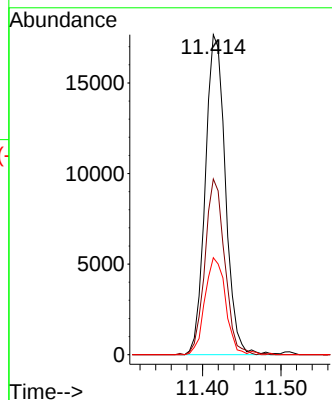
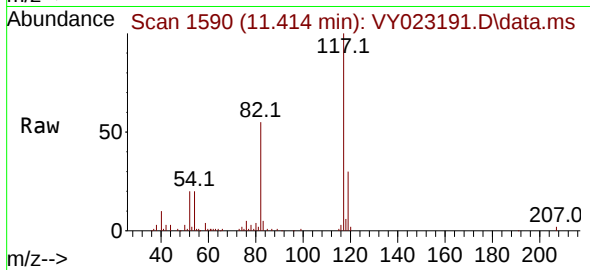




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 117
Delta R.T. 0.006 min
Lab File: VY023191.D
Acq: 22 Aug 2025 14:27

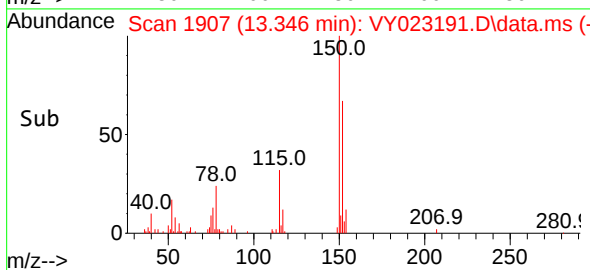
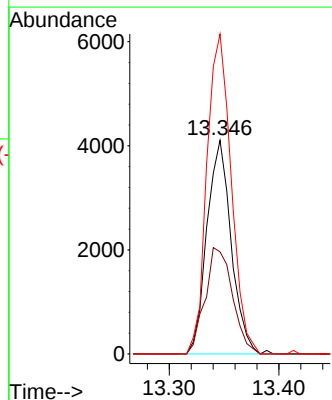
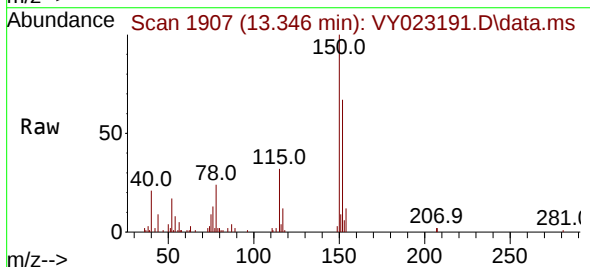
Instrument :
MSVOA_Y
ClientSampleId :
OR-02-082025

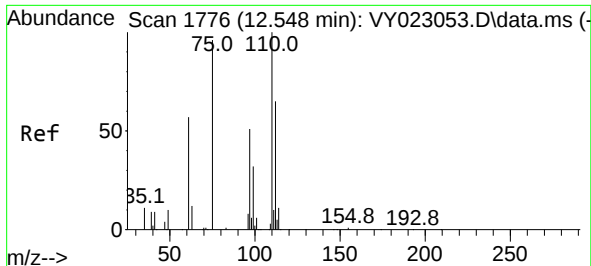
Tgt Ion:	117	Resp:	31437
Ion	Ratio	Lower	Upper
117	100		
82	54.9	43.4	65.0
119	30.3	25.6	38.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023191.D
Acq: 22 Aug 2025 14:27

Tgt Ion:	152	Resp:	6317
Ion	Ratio	Lower	Upper
152	100		
115	55.9	28.2	84.6
150	149.5	0.0	348.0

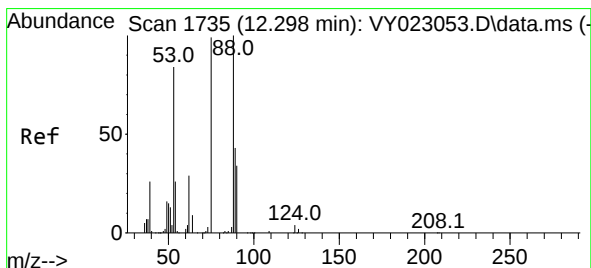
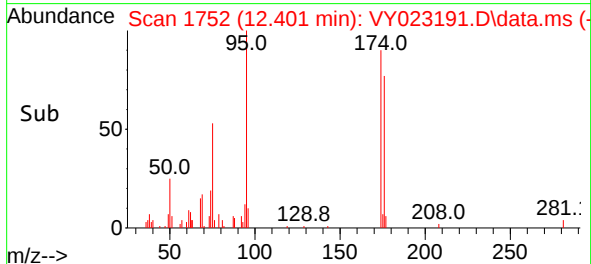
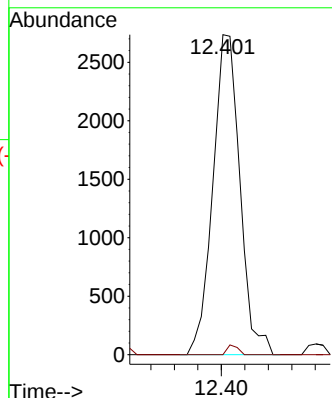
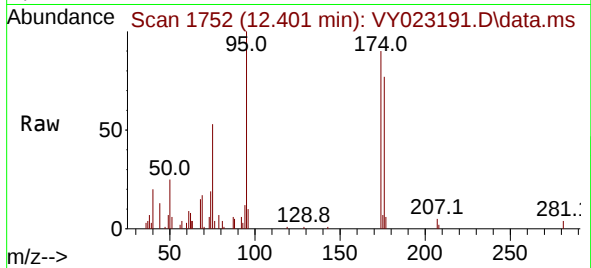




#76
1,2,3-Trichloropropane
Concen: 71.811 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.146 min
Lab File: VY023191.D
Acq: 22 Aug 2025 14:27

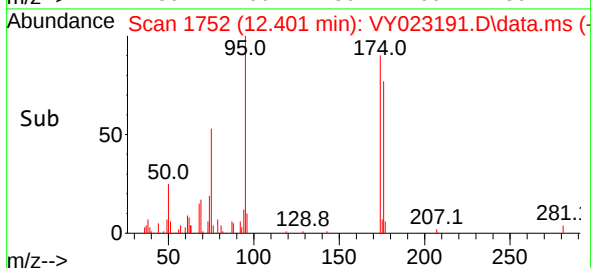
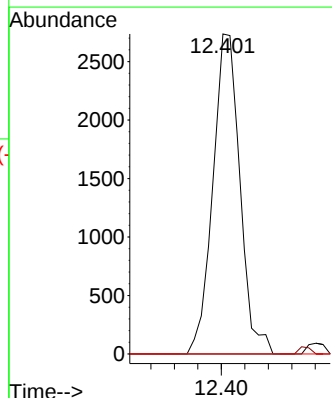
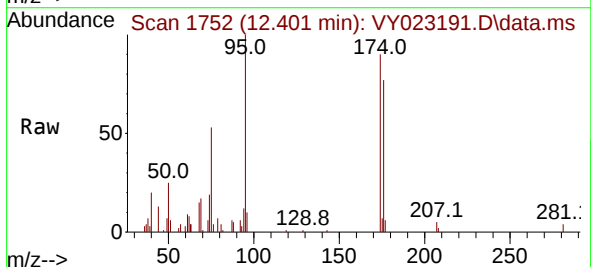
Instrument :
MSVOA_Y
ClientSampleId :
OR-02-082025

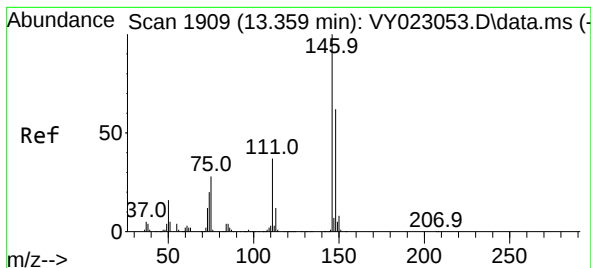
Tgt Ion: 75 Resp: 4378
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 173.831 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.104 min
Lab File: VY023191.D
Acq: 22 Aug 2025 14:27

Tgt Ion: 75 Resp: 4378
Ion Ratio Lower Upper
75 100
53 0.0 70.8 106.2#
89 0.0 38.1 57.1#





#88

1,4-Dichlorobenzene

Concen: 1.216 ug/l

RT: 13.358 min Scan# 1909

Delta R.T. -0.000 min

Lab File: VY023191.D

Acq: 22 Aug 2025 14:27

Instrument :

MSVOA_Y

ClientSampleId :

OR-02-082025

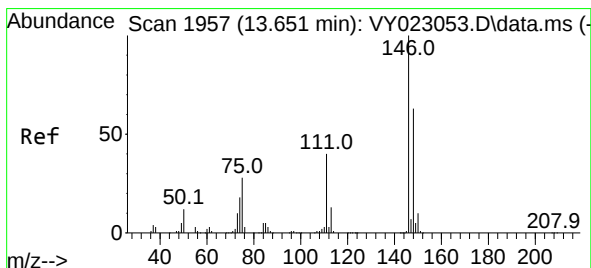
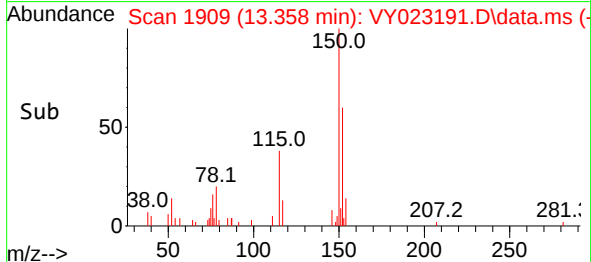
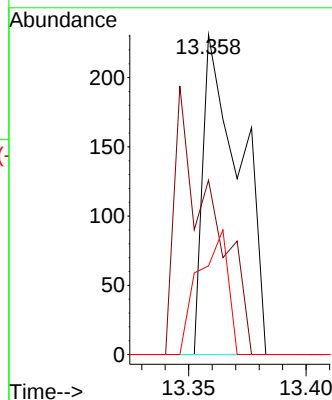
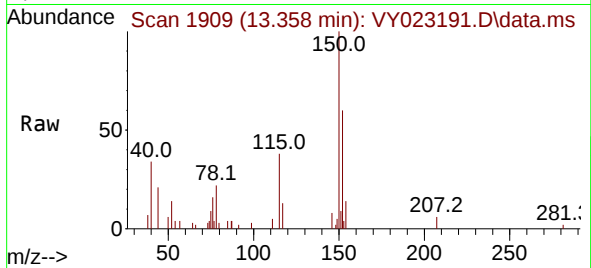
Tgt Ion:146 Resp: 253

Ion Ratio Lower Upper

146 100

111 81.4 19.1 57.1#

148 30.8 31.6 94.7#



#91

1,2-Dichlorobenzene

Concen: 1.196 ug/l

RT: 13.663 min Scan# 1959

Delta R.T. 0.012 min

Lab File: VY023191.D

Acq: 22 Aug 2025 14:27

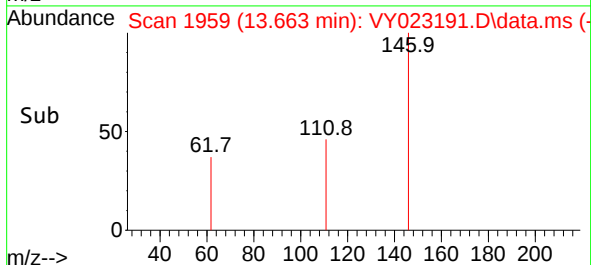
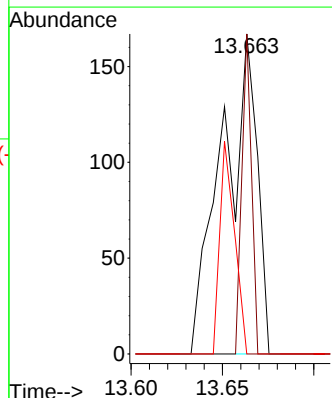
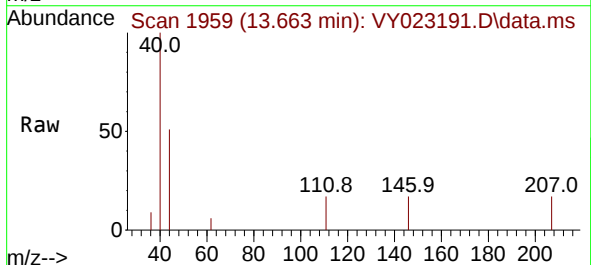
Tgt Ion:146 Resp: 220

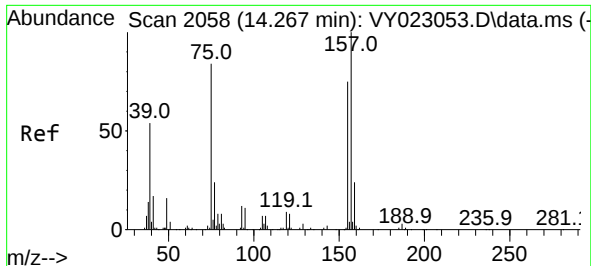
Ion Ratio Lower Upper

146 100

111 27.7 20.3 60.8

148 28.2 32.2 96.6#

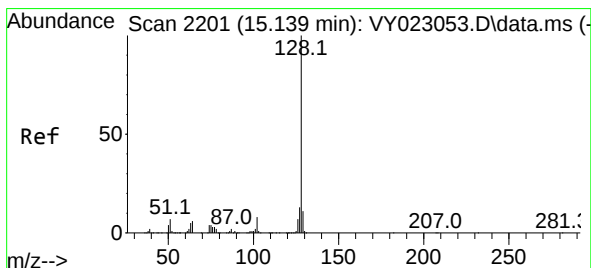
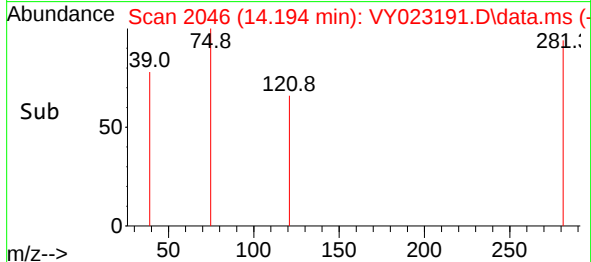
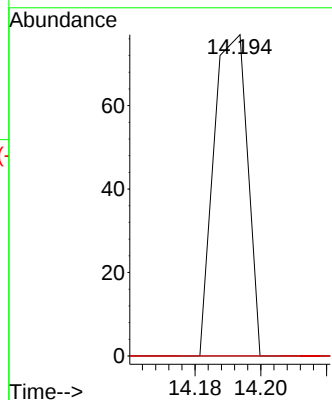
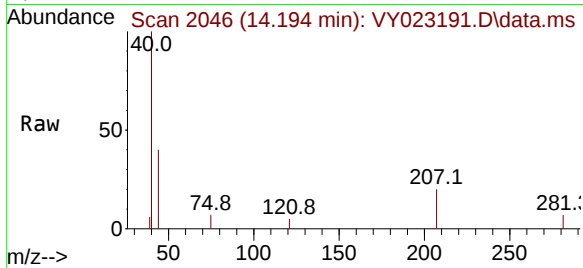




#92
1,2-Dibromo-3-Chloropropane
Concen: 4.640 ug/l
RT: 14.194 min Scan# 2046
Delta R.T. -0.073 min
Lab File: VY023191.D
Acq: 22 Aug 2025 14:27

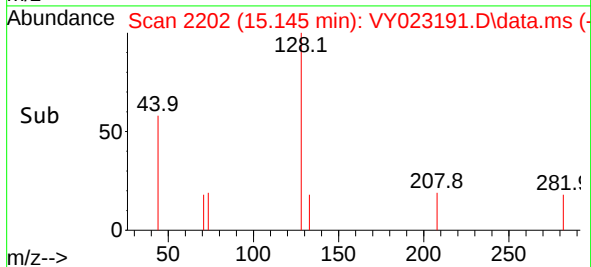
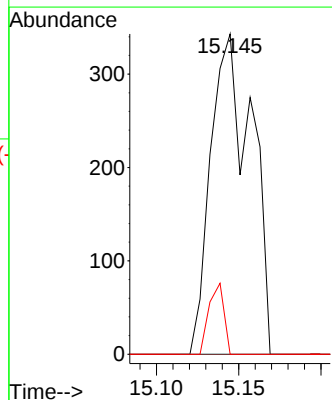
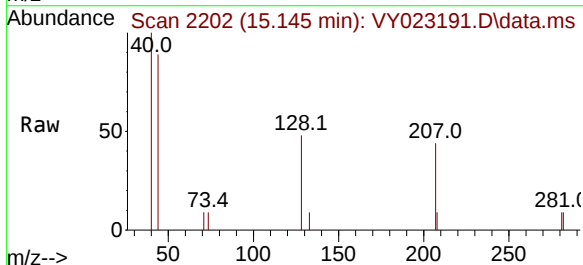
Instrument :
MSVOA_Y
ClientSampleId :
OR-02-082025

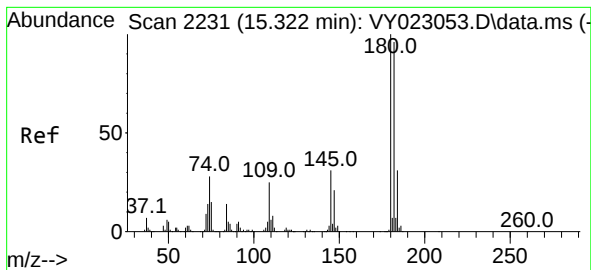
Tgt Ion: 75 Resp: 55
Ion Ratio Lower Upper
75 100
155 0.0 43.9 131.6#
157 0.0 57.2 171.6#



#95
Naphthalene
Concen: 3.175 ug/l
RT: 15.145 min Scan# 2202
Delta R.T. 0.006 min
Lab File: VY023191.D
Acq: 22 Aug 2025 14:27

Tgt Ion: 128 Resp: 589
Ion Ratio Lower Upper
128 100
127 0.0 10.4 15.6#
129 8.1 9.0 13.4#





#96
 1,2,3-Trichlorobenzene
 Concen: 2.763 ug/l
 RT: 15.328 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VY023191.D
 Acq: 22 Aug 2025 14:27

Instrument :
 MSVOA_Y
 ClientSampleId :
 OR-02-082025

Tgt Ion:180 Resp: 259
 Ion Ratio Lower Upper
 180 100
 182 120.5 47.9 143.7
 145 0.0 15.9 47.7#

