

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121525\
 Data File : VY023968.D
 Acq On : 15 Dec 2025 11:52
 Operator : SY/MD
 Sample : Q3862-02
 Misc : 6.65g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP02-MH09-VOC

Quant Time: Dec 16 02:13:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121025S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 11 03:57:51 2025
 Response via : Initial Calibration

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

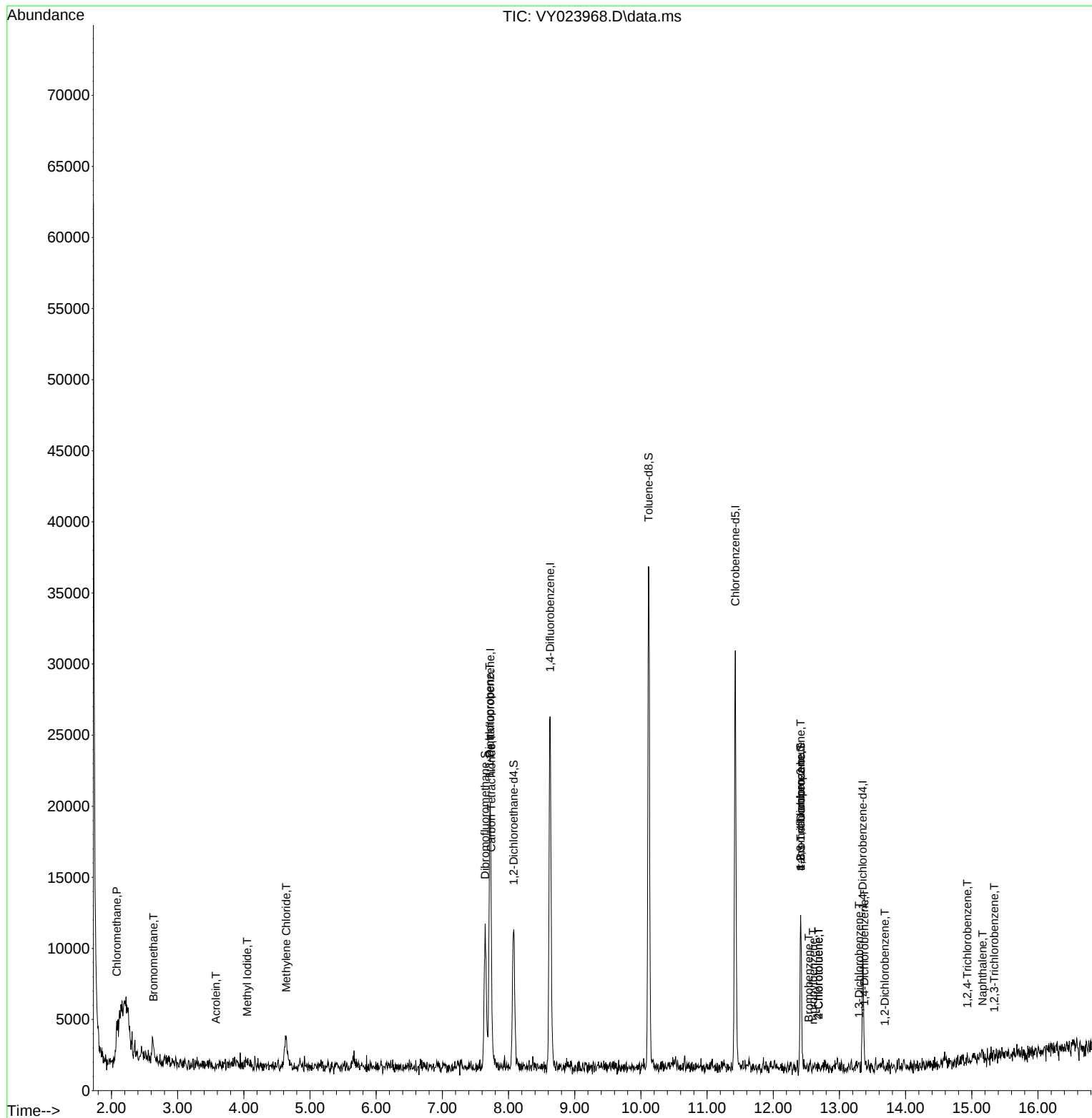
Internal Standards						
1) Pentafluorobenzene	7.726	168	17059	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.628	114	24155	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.426	117	17510	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	2202	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.079	65	8455	56.058	ug/l	0.01
Spiked Amount	50.000	Range	50 - 163	Recovery	= 112.120%	
35) Dibromofluoromethane	7.646	113	7589	48.063	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 96.120%	
50) Toluene-d8	10.115	98	25489	43.358	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 86.720%	
62) 4-Bromofluorobenzene	12.414	95	3135	15.968	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 31.940%	
Target Compounds						Qvalue
3) Chloromethane	2.080	50	393	2.586	ug/l	95
5) Bromomethane	2.635	94	1061	6.636	ug/l #	74
10) Methyl Iodide	4.050	142	941	4.557	ug/l #	78
13) Acrolein	3.580	56	26	1.861	ug/l #	15
16) Acetone	3.873	43	152	Below Cal	#	42
20) Methylene Chloride	4.641	84	1891	10.657	ug/l #	69
36) 1,1-Dichloropropene	7.713	75	1162	5.406	ug/l #	42
38) Carbon Tetrachloride	7.738	117	1803	6.920	ug/l #	12
76) 1,2,3-Trichloropropane	12.414	75	1748	93.844	ug/l #	100
77) Bromobenzene	12.536	156	106	2.655	ug/l #	1
78) n-propylbenzene	12.603	91	199	1.063	ug/l #	51
79) 2-Chlorotoluene	12.682	91	147	1.382	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.414	75	1748	213.612	ug/l #	15
82) 4-Chlorotoluene	12.682	91	147	1.343	ug/l	98
87) 1,3-Dichlorobenzene	13.298	146	203	2.618	ug/l #	53
88) 1,4-Dichlorobenzene	13.377	146	179	2.342	ug/l #	26
91) 1,2-Dichlorobenzene	13.688	146	136	2.024	ug/l #	74
93) 1,2,4-Trichlorobenzene	14.932	180	272	6.888	ug/l #	60
95) Naphthalene	15.163	128	527	8.631	ug/l #	70
96) 1,2,3-Trichlorobenzene	15.340	180	244	7.262	ug/l #	33

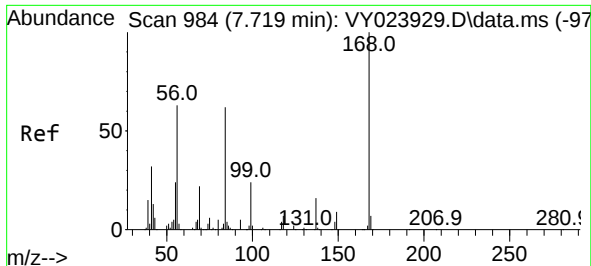
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Dec 11 03:57:51 2025
Response via : Initial Calibration

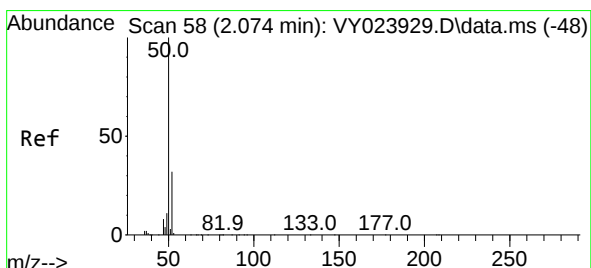
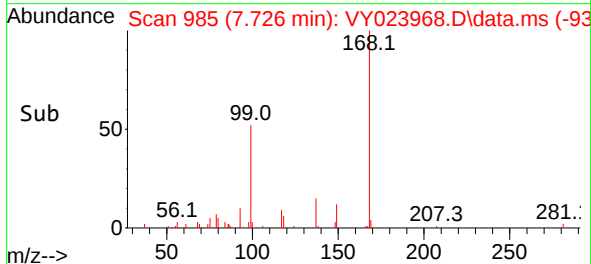
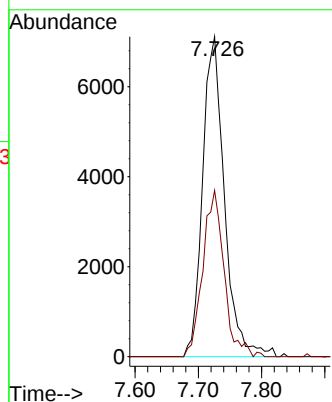
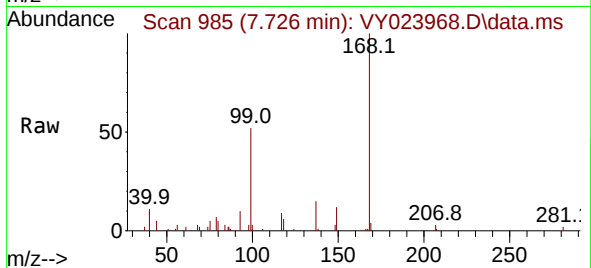




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.726 min Scan# 91
Delta R.T. 0.007 min
Lab File: VY023968.D
Acq: 15 Dec 2025 11:52

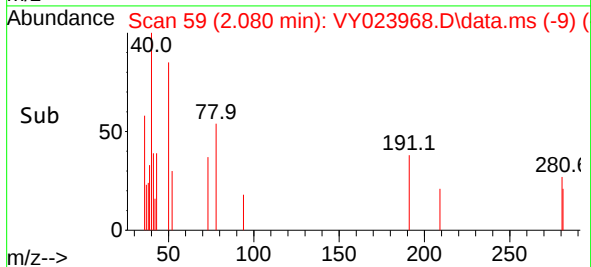
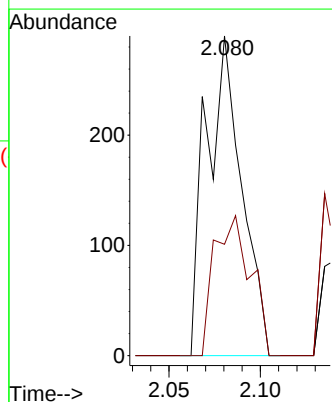
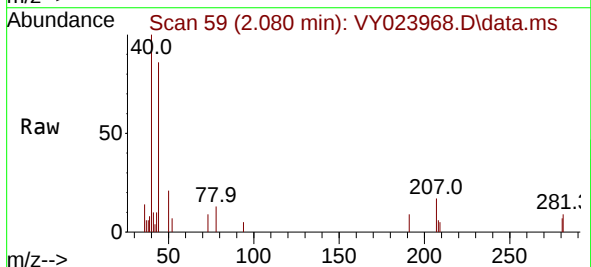
Instrument :
MSVOA_Y
ClientSampleId :
TP02-MH09-VOC

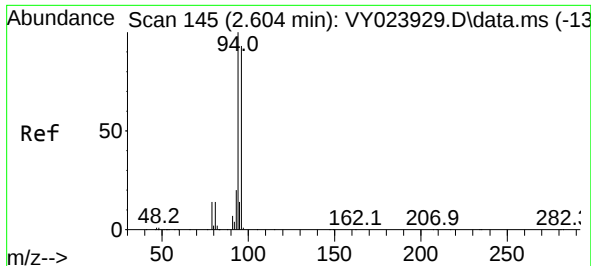
Tgt Ion:168 Resp: 17059
Ion Ratio Lower Upper
168 100
99 51.9 38.9 58.3



#3
Chloromethane
Concen: 2.586 ug/l
RT: 2.080 min Scan# 59
Delta R.T. 0.006 min
Lab File: VY023968.D
Acq: 15 Dec 2025 11:52

Tgt Ion: 50 Resp: 393
Ion Ratio Lower Upper
50 100
52 34.8 25.8 38.8

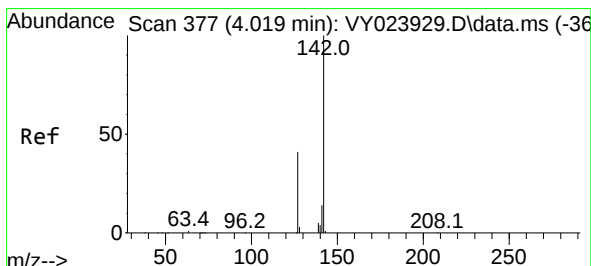
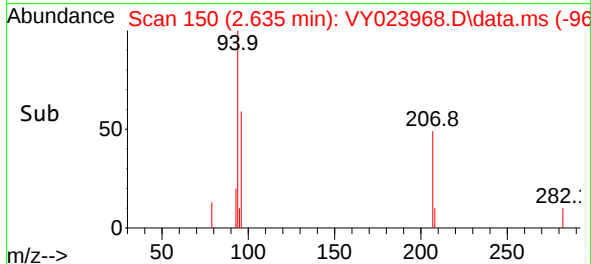
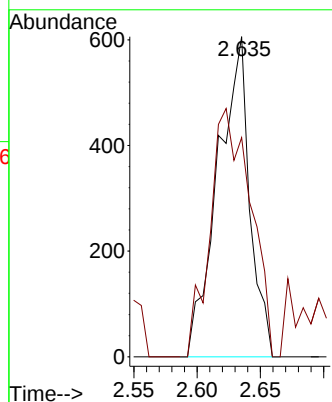
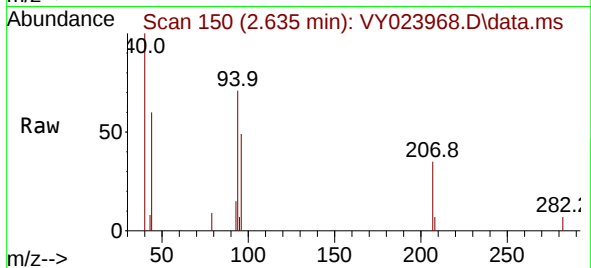




#5
Bromomethane
Concen: 6.636 ug/l
RT: 2.635 min Scan# 11
Delta R.T. 0.031 min
Lab File: VY023968.D
Acq: 15 Dec 2025 11:52

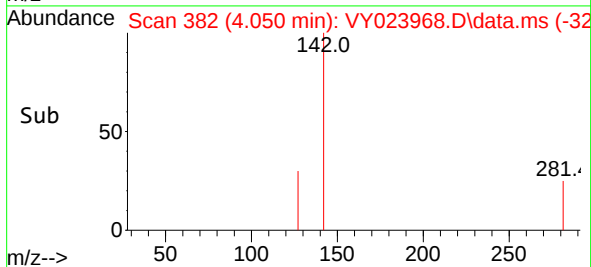
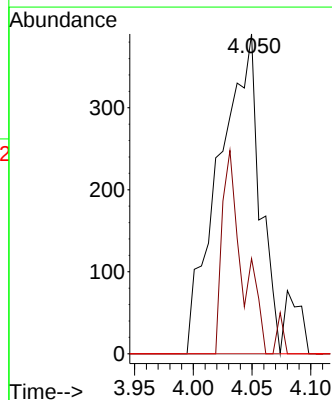
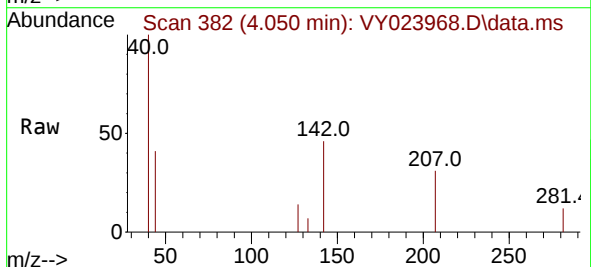
Instrument :
MSVOA_Y
ClientSampleId :
TP02-MH09-VOC

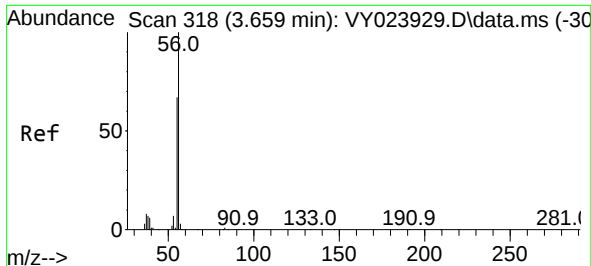
Tgt Ion: 94 Resp: 1061
Ion Ratio Lower Upper
94 100
96 68.5 74.8 112.2#



#10
Methyl Iodide
Concen: 4.557 ug/l
RT: 4.050 min Scan# 382
Delta R.T. 0.031 min
Lab File: VY023968.D
Acq: 15 Dec 2025 11:52

Tgt Ion:142 Resp: 941
Ion Ratio Lower Upper
142 100
127 31.7 34.5 51.7#
141 0.0 11.5 17.3#

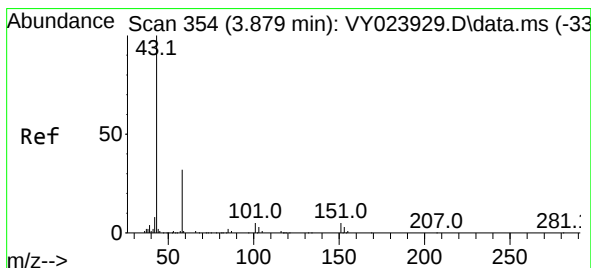
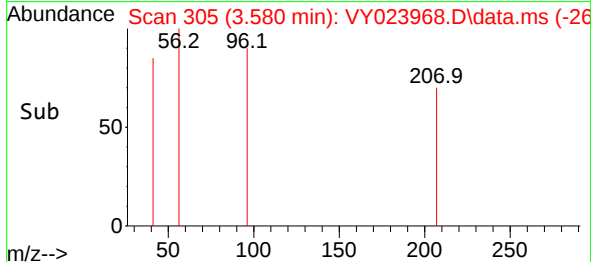
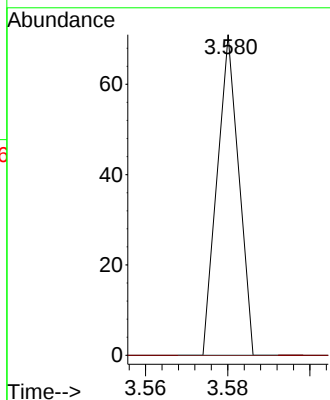
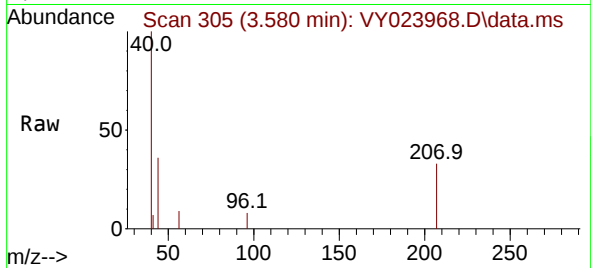




#13
Acrolein
Concen: 1.861 ug/l
RT: 3.580 min Scan# 305
Delta R.T. -0.079 min
Lab File: VY023968.D
Acq: 15 Dec 2025 11:52

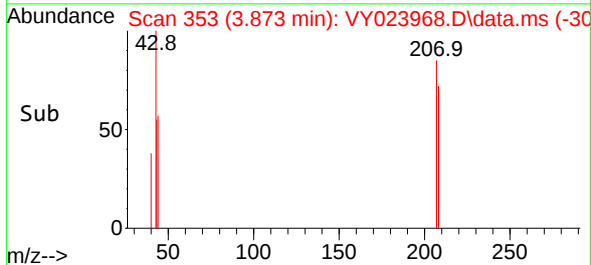
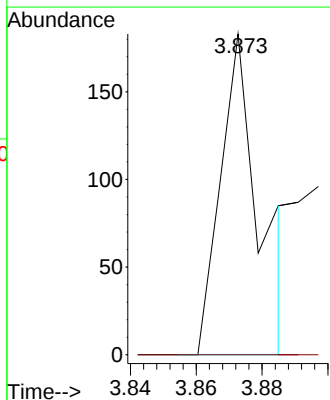
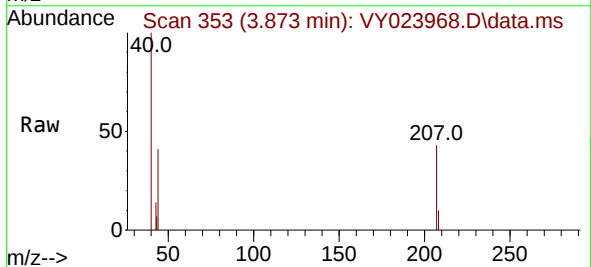
Instrument :
MSVOA_Y
ClientSampleId :
TP02-MH09-VOC

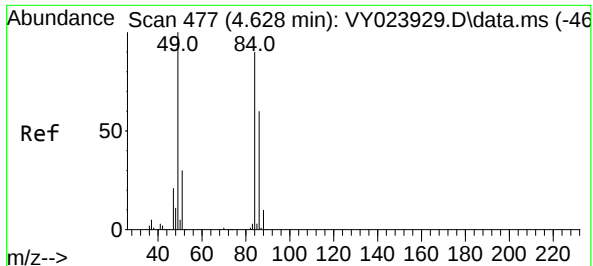
Tgt Ion: 56 Resp: 26
Ion Ratio Lower Upper
56 100
55 0.0 55.7 83.5#



#16
Acetone
Concen: Below Cal
RT: 3.873 min Scan# 353
Delta R.T. -0.006 min
Lab File: VY023968.D
Acq: 15 Dec 2025 11:52

Tgt Ion: 43 Resp: 152
Ion Ratio Lower Upper
43 100
58 0.0 26.4 39.6#





#20

Methylene Chloride

Concen: 10.657 ug/l

RT: 4.641 min Scan# 41

Delta R.T. 0.012 min

Lab File: VY023968.D

Acq: 15 Dec 2025 11:52

Instrument :

MSVOA_Y

ClientSampleId :

TP02-MH09-VOC

Tgt Ion: 84 Resp: 1891

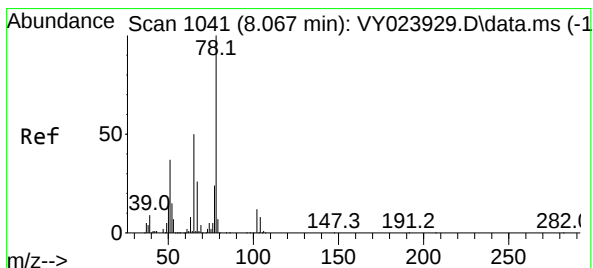
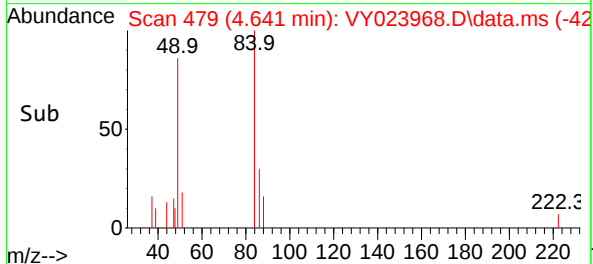
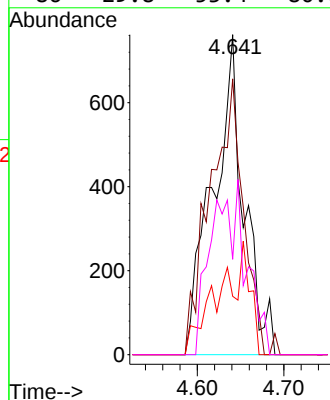
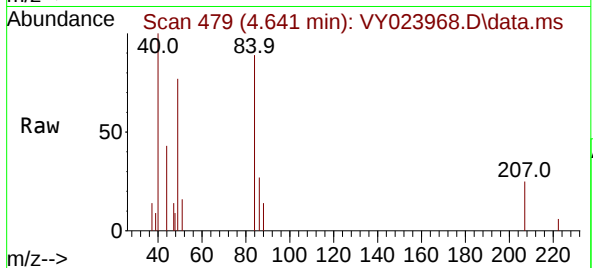
Ion Ratio Lower Upper

84 100

49 86.2 89.1 133.7#

51 18.2 26.6 39.8#

86 29.8 53.4 80.0#



#33

1,2-Dichloroethane-d4

Concen: 56.058 ug/l

RT: 8.079 min Scan# 1043

Delta R.T. 0.012 min

Lab File: VY023968.D

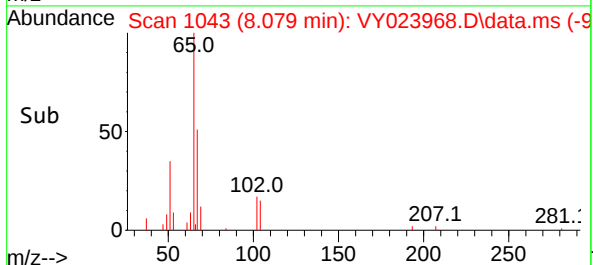
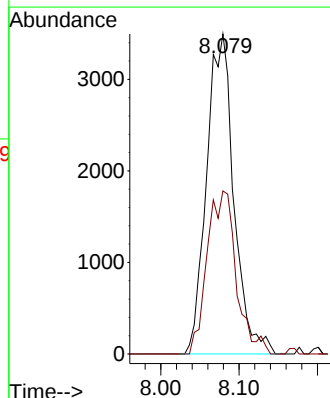
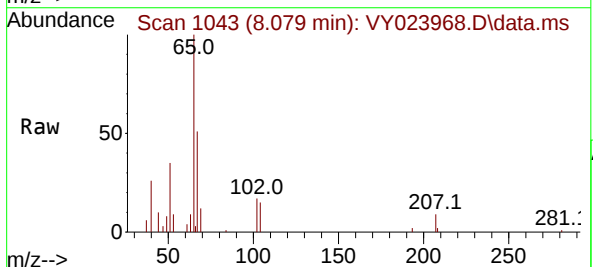
Acq: 15 Dec 2025 11:52

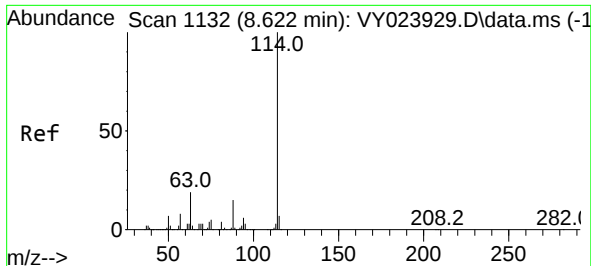
Tgt Ion: 65 Resp: 8455

Ion Ratio Lower Upper

65 100

67 54.3 0.0 106.2

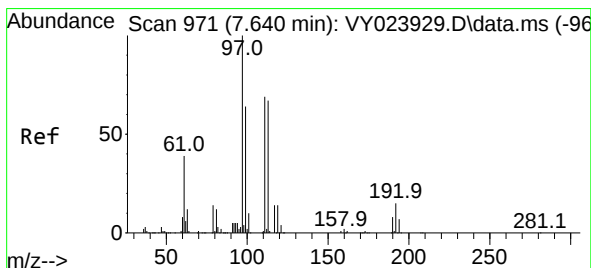
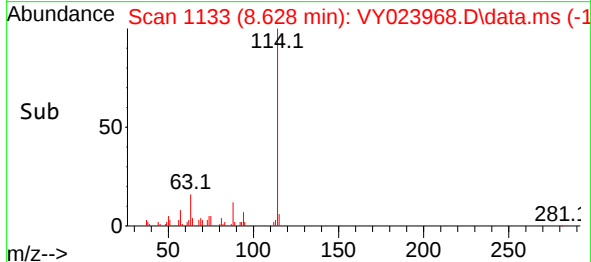
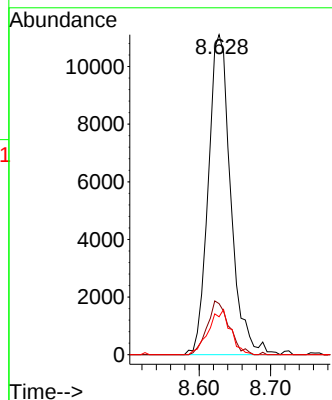
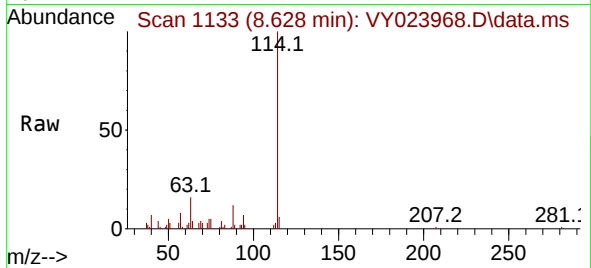




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.628 min Scan# 1132
Delta R.T. 0.006 min
Lab File: VY023968.D
Acq: 15 Dec 2025 11:52

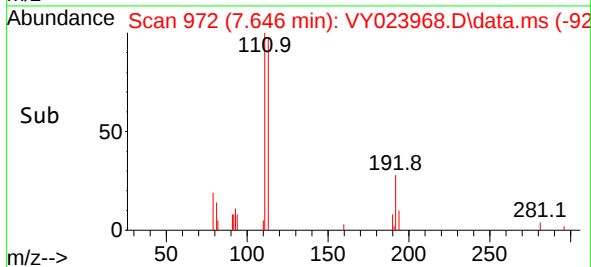
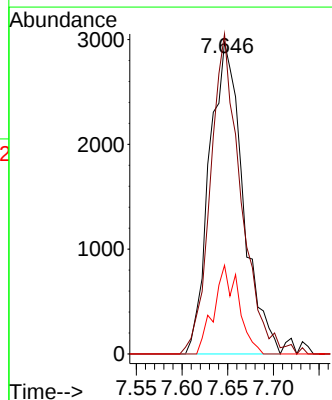
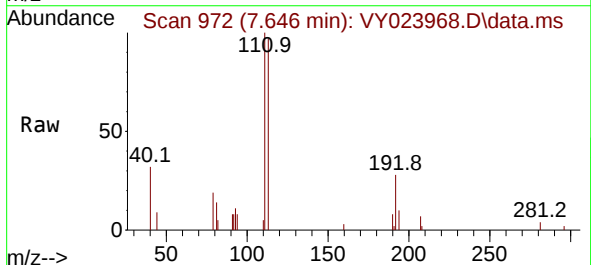
Instrument :
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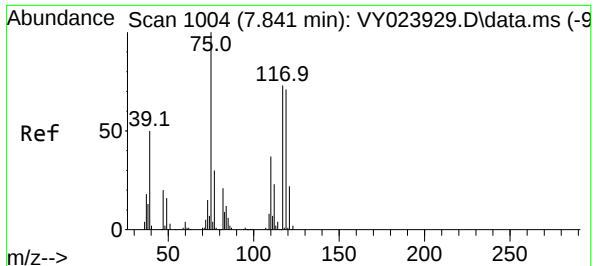
Tgt Ion:	114	Resp:	24155
Ion	Ratio	Lower	Upper
114	100		
63	15.9	0.0	37.2
88	11.9	0.0	29.4



#35
Dibromofluoromethane
Concen: 48.063 ug/l
RT: 7.646 min Scan# 972
Delta R.T. 0.006 min
Lab File: VY023968.D
Acq: 15 Dec 2025 11:52

Tgt Ion:	113	Resp:	7589
Ion	Ratio	Lower	Upper
113	100		
111	93.5	82.4	123.6
192	21.1	17.9	26.9





#36

1,1-Dichloropropene

Concen: 5.406 ug/l

RT: 7.713 min Scan# 91

Delta R.T. -0.128 min

Lab File: VY023968.D

Acq: 15 Dec 2025 11:52

Instrument :

MSVOA_Y

ClientSampleId :

TP02-MH09-VOC

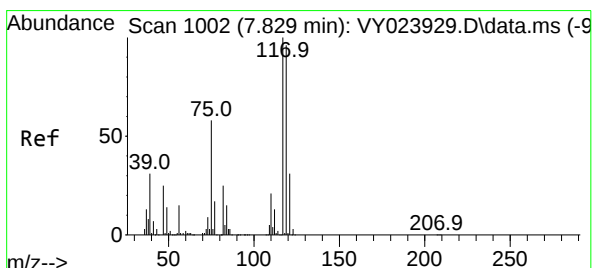
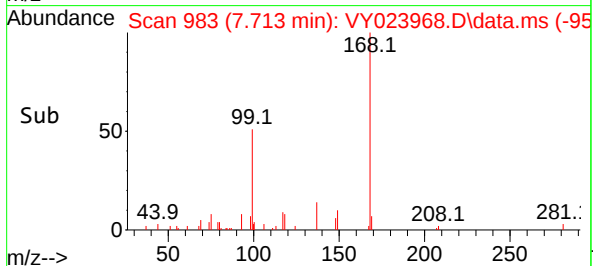
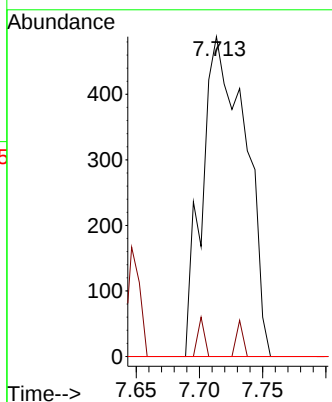
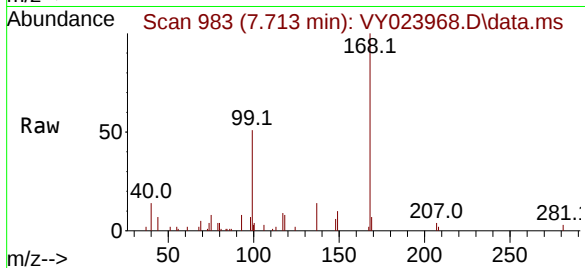
Tgt Ion: 75 Resp: 1162

Ion Ratio Lower Upper

75 100

110 1.9 19.2 57.6#

77 0.0 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 6.920 ug/l

RT: 7.738 min Scan# 987

Delta R.T. -0.091 min

Lab File: VY023968.D

Acq: 15 Dec 2025 11:52

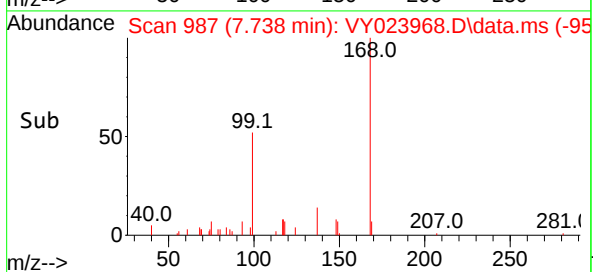
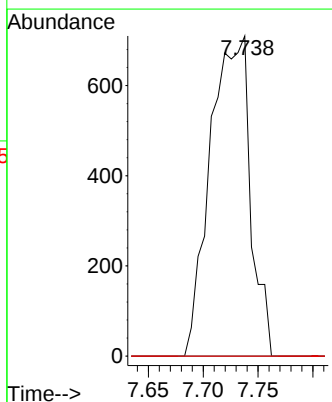
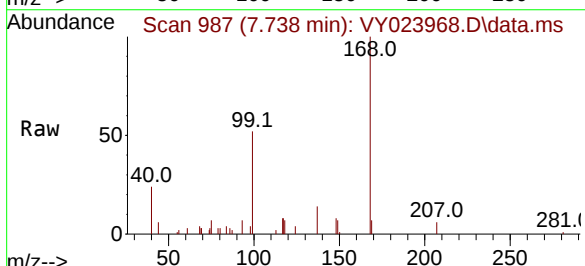
Tgt Ion: 117 Resp: 1803

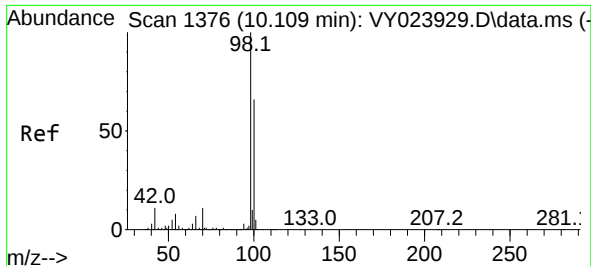
Ion Ratio Lower Upper

117 100

119 0.0 76.6 114.8#

121 0.0 24.8 37.2#

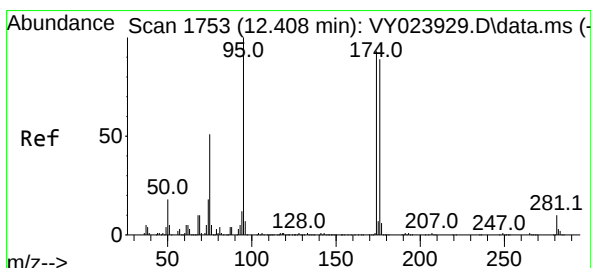
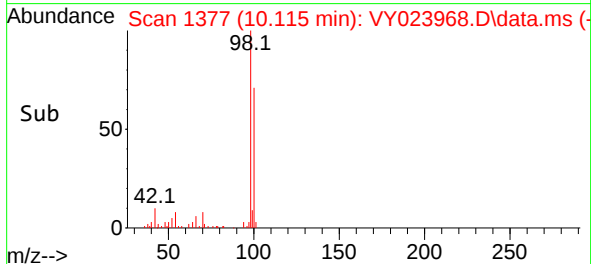
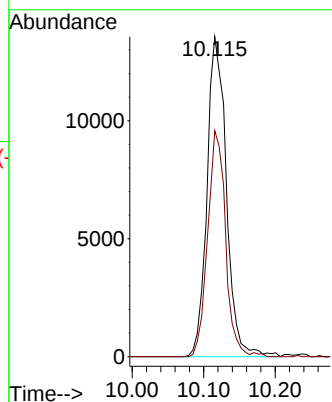
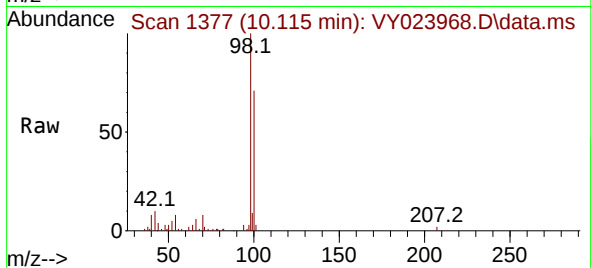




#50
Toluene-d8
Concen: 43.358 ug/l
RT: 10.115 min Scan# 1377
Delta R.T. 0.006 min
Lab File: VY023968.D
Acq: 15 Dec 2025 11:52

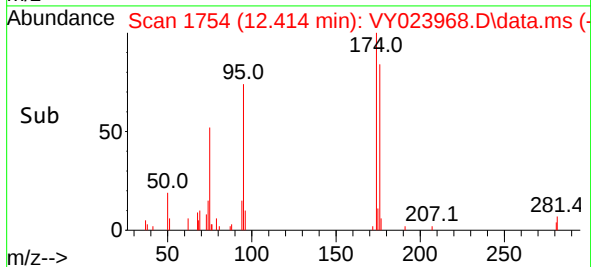
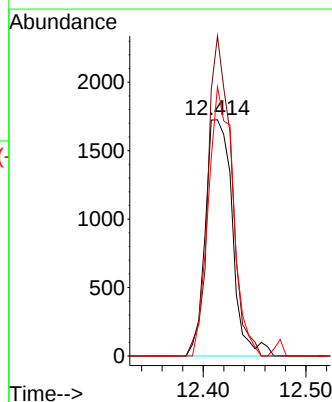
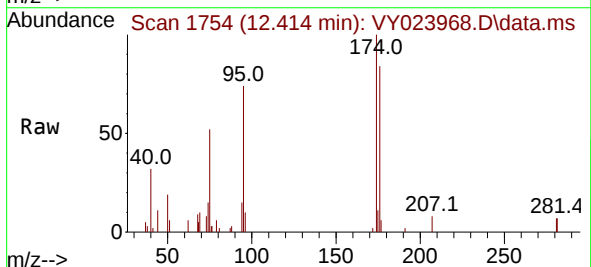
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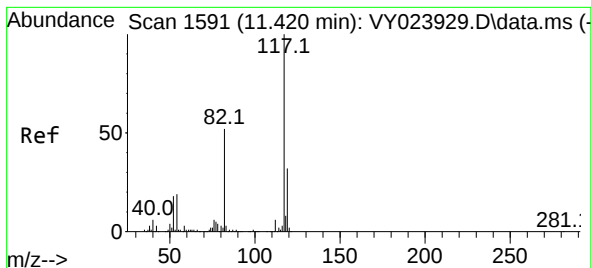
Tgt Ion: 98 Resp: 25489
Ion Ratio Lower Upper
98 100
100 64.8 52.8 79.2



#62
4-Bromofluorobenzene
Concen: 15.968 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. 0.006 min
Lab File: VY023968.D
Acq: 15 Dec 2025 11:52

Tgt Ion: 95 Resp: 3135
Ion Ratio Lower Upper
95 100
174 116.9 0.0 187.4
176 105.2 0.0 179.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.426 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY023968.D

Acq: 15 Dec 2025 11:52

Instrument :

MSVOA_Y

ClientSampleId :

TP02-MH09-VOC

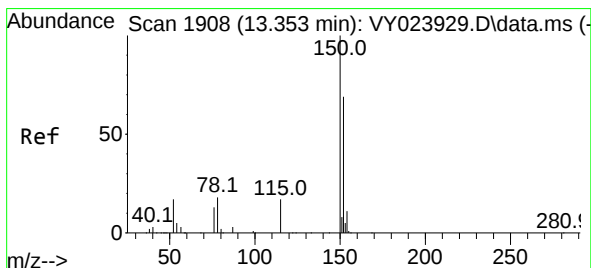
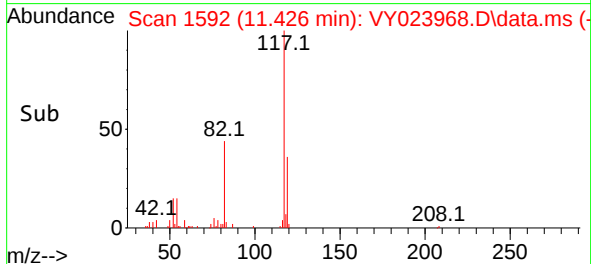
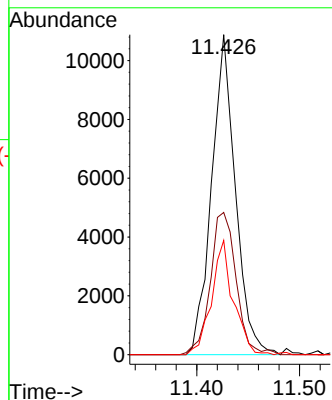
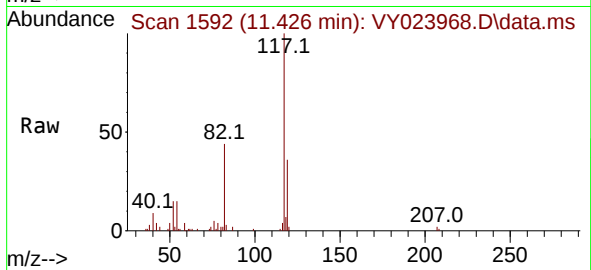
Tgt Ion:117 Resp: 17510

Ion Ratio Lower Upper

117 100

82 44.4 41.4 62.2

119 35.7 25.5 38.3



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.353 min Scan# 1908

Delta R.T. 0.000 min

Lab File: VY023968.D

Acq: 15 Dec 2025 11:52

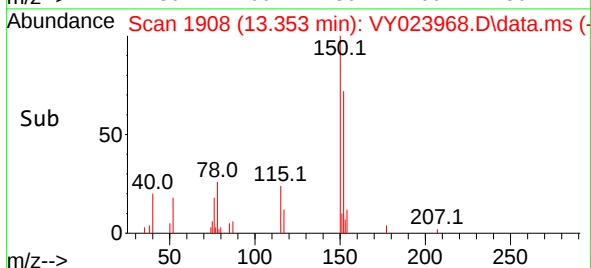
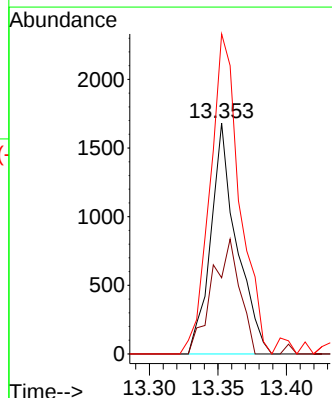
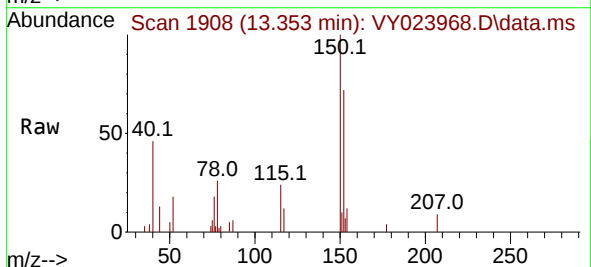
Tgt Ion:152 Resp: 2202

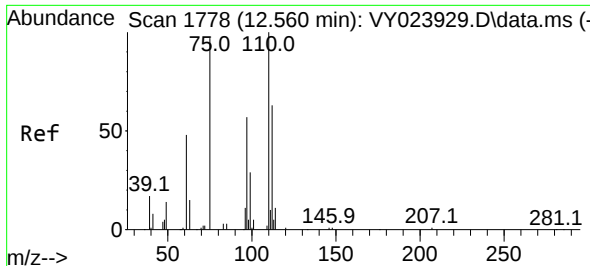
Ion Ratio Lower Upper

152 100

115 53.7 27.3 81.9

150 160.0 0.0 347.6

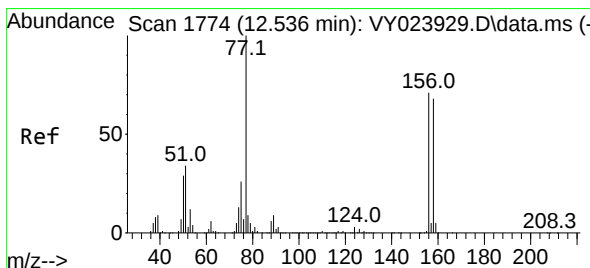
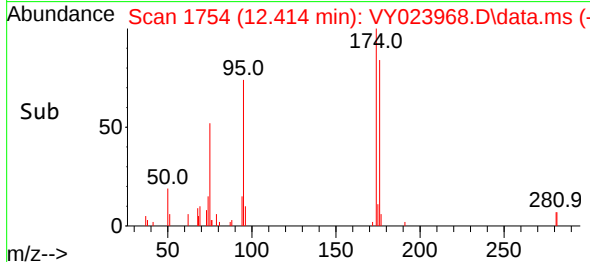
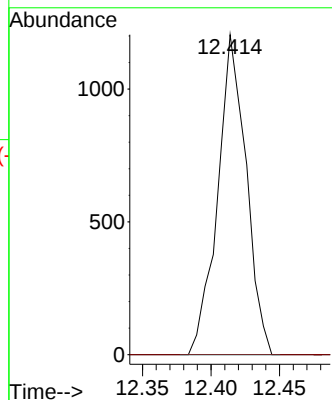
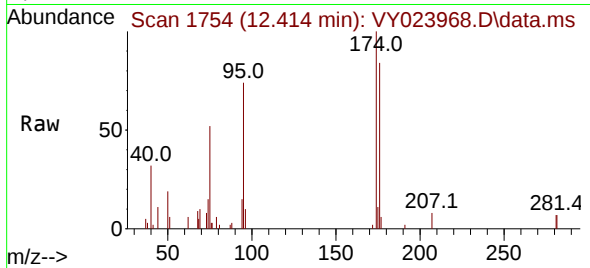




#76
1,2,3-Trichloropropane
Concen: 93.844 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. -0.146 min
Lab File: VY023968.D
Acq: 15 Dec 2025 11:52

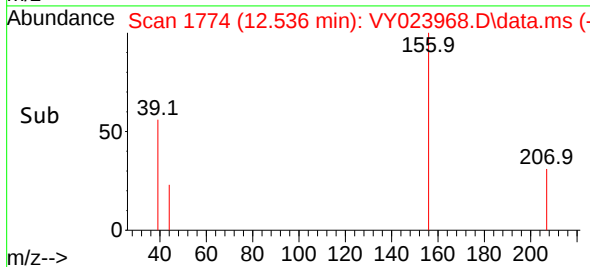
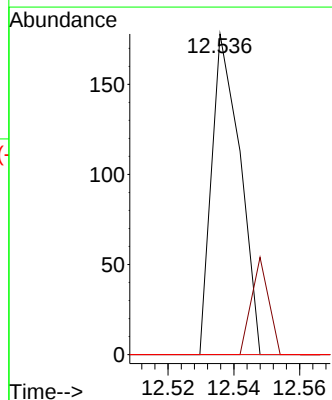
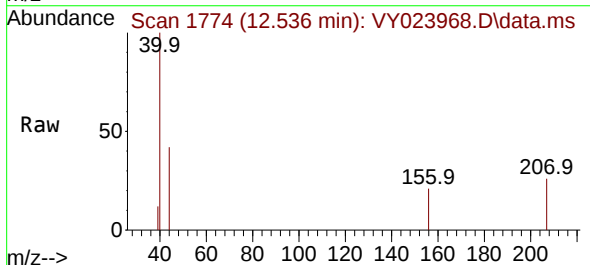
Instrument :
MSVOA_Y
ClientSampleId :
TP02-MH09-VOC

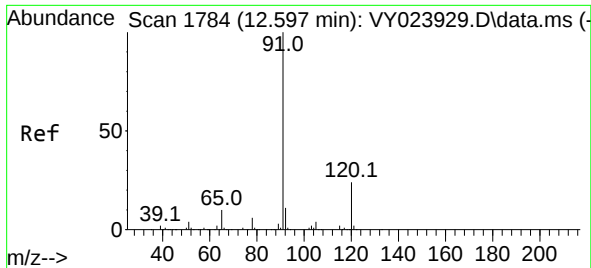
Tgt Ion: 75 Resp: 1748
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0



#77
Bromobenzene
Concen: 2.655 ug/l
RT: 12.536 min Scan# 1774
Delta R.T. 0.000 min
Lab File: VY023968.D
Acq: 15 Dec 2025 11:52

Tgt Ion:156 Resp: 106
Ion Ratio Lower Upper
156 100
77 18.9 79.8 239.4#
158 0.0 48.0 144.2#

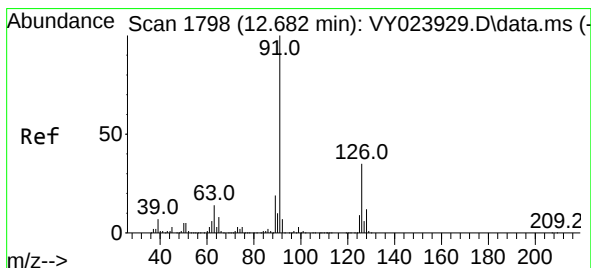
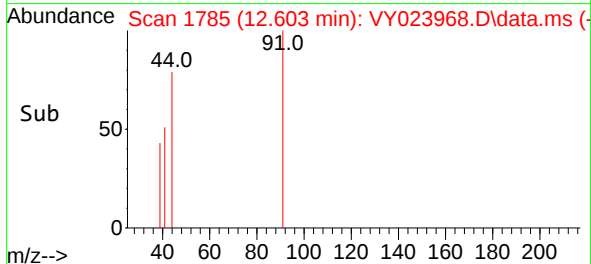
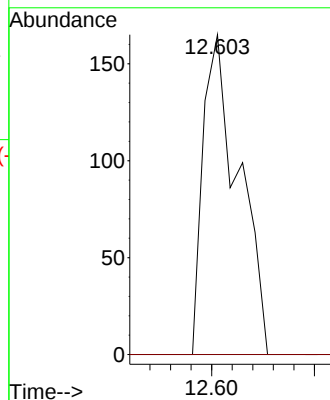
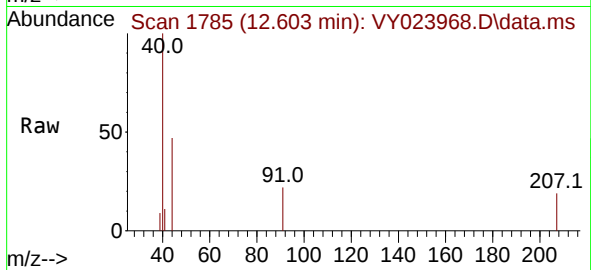




#78
n-propylbenzene
Concen: 1.063 ug/l
RT: 12.603 min Scan# 1785
Delta R.T. 0.006 min
Lab File: VY023968.D
Acq: 15 Dec 2025 11:52

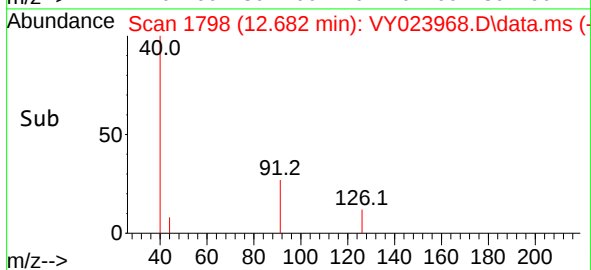
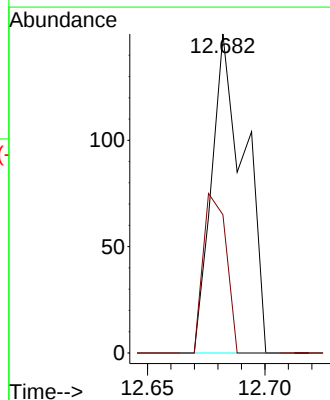
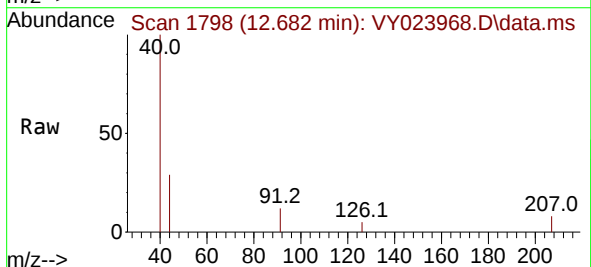
Instrument :
MSVOA_Y
ClientSampleId :
TP02-MH09-VOC

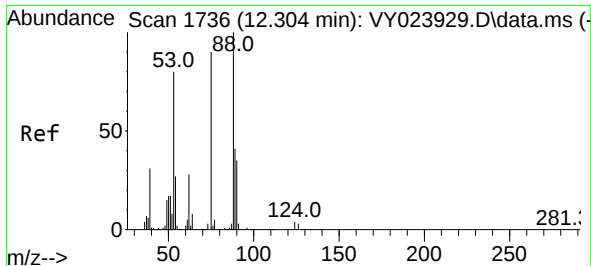
Tgt Ion: 91 Resp: 199
Ion Ratio Lower Upper
91 100
120 0.0 12.0 36.0#



#79
2-Chlorotoluene
Concen: 1.382 ug/l
RT: 12.682 min Scan# 1798
Delta R.T. 0.000 min
Lab File: VY023968.D
Acq: 15 Dec 2025 11:52

Tgt Ion: 91 Resp: 147
Ion Ratio Lower Upper
91 100
126 34.7 17.9 53.7

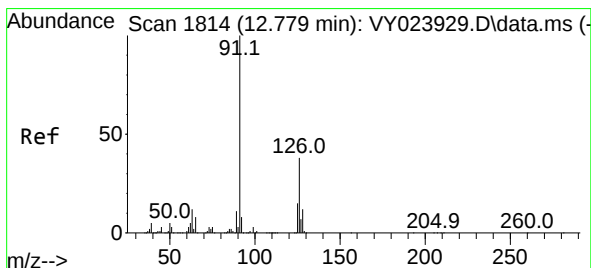
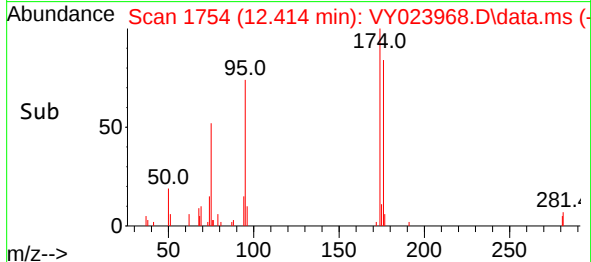
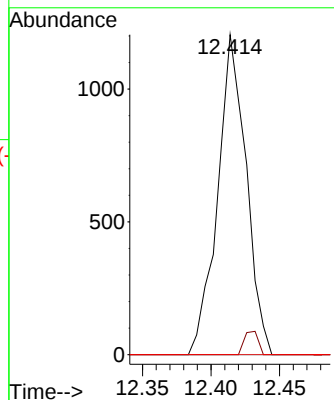
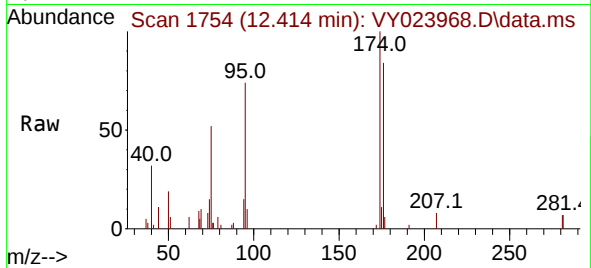




#81
trans-1,4-Dichloro-2-butene
Concen: 213.612 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. 0.110 min
Lab File: VY023968.D
Acq: 15 Dec 2025 11:52

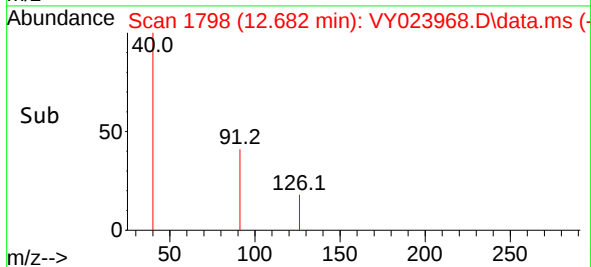
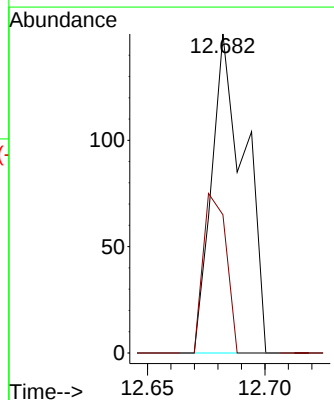
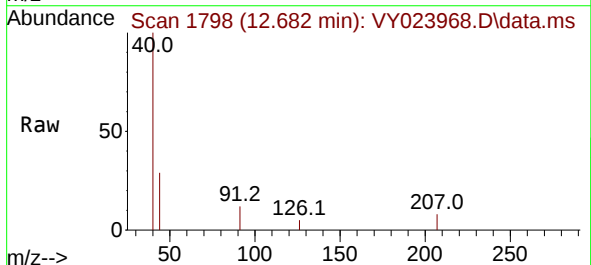
Instrument :
MSVOA_Y
ClientSampleId :
TP02-MH09-VOC

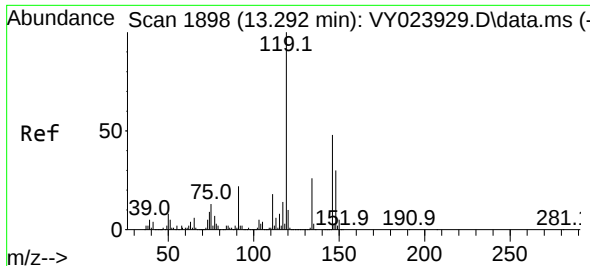
Tgt Ion: 75 Resp: 1748
Ion Ratio Lower Upper
75 100
53 3.6 73.4 110.0#
89 0.0 38.9 58.3#



#82
4-Chlorotoluene
Concen: 1.343 ug/l
RT: 12.682 min Scan# 1798
Delta R.T. -0.097 min
Lab File: VY023968.D
Acq: 15 Dec 2025 11:52

Tgt Ion: 91 Resp: 147
Ion Ratio Lower Upper
91 100
126 34.7 18.1 54.1

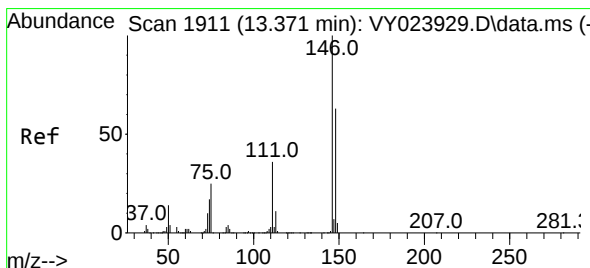
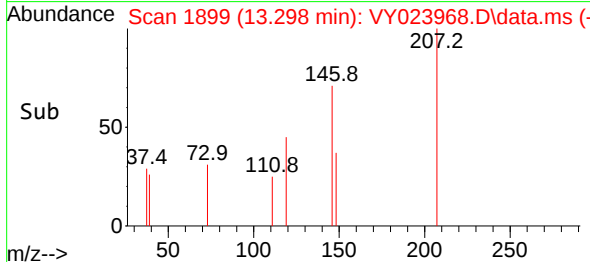
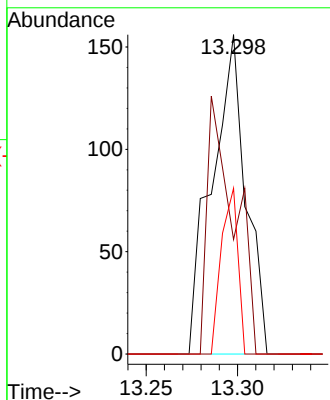
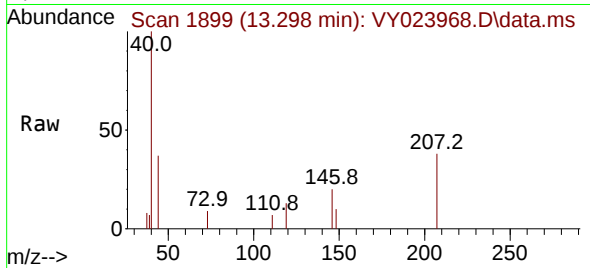




#87
 1,3-Dichlorobenzene
 Concen: 2.618 ug/l
 RT: 13.298 min Scan# 1899
 Delta R.T. 0.006 min
 Lab File: VY023968.D
 Acq: 15 Dec 2025 11:52

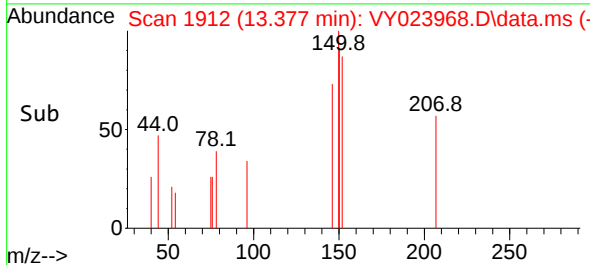
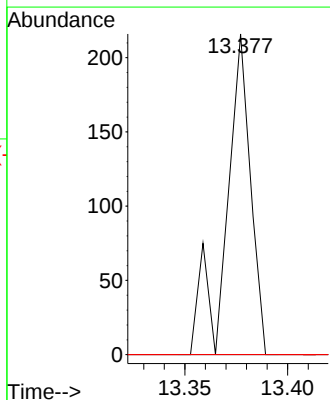
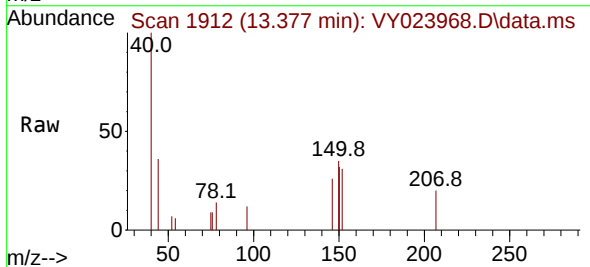
Instrument :
 MSVOA_Y
 ClientSampleId :
 TP02-MH09-VOC

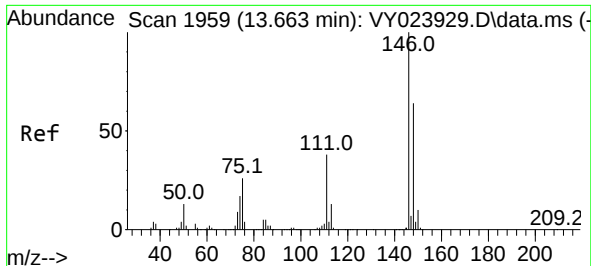
Tgt Ion:146 Resp: 203
 Ion Ratio Lower Upper
 146 100
 111 63.5 18.9 56.9#
 148 25.1 32.0 96.0#



#88
 1,4-Dichlorobenzene
 Concen: 2.342 ug/l
 RT: 13.377 min Scan# 1912
 Delta R.T. 0.006 min
 Lab File: VY023968.D
 Acq: 15 Dec 2025 11:52

Tgt Ion:146 Resp: 179
 Ion Ratio Lower Upper
 146 100
 111 0.0 18.4 55.0#
 148 0.0 31.9 95.9#

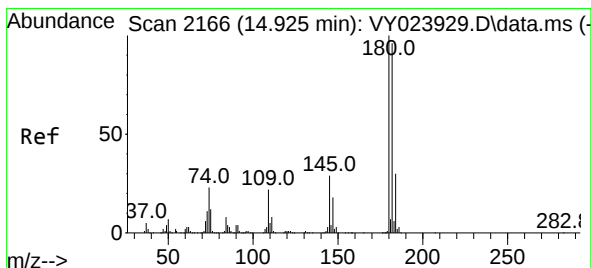
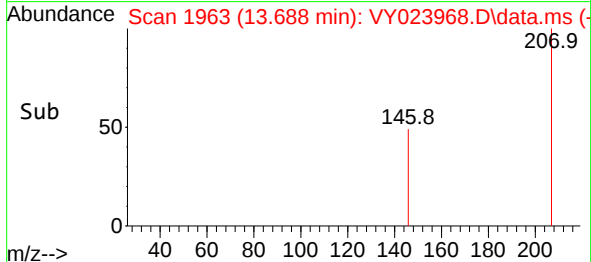
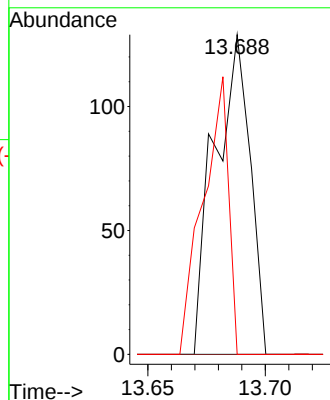
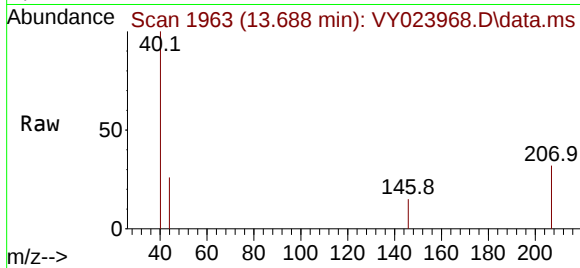




#91
1,2-Dichlorobenzene
Concen: 2.024 ug/l
RT: 13.688 min Scan# 1963
Delta R.T. 0.025 min
Lab File: VY023968.D
Acq: 15 Dec 2025 11:52

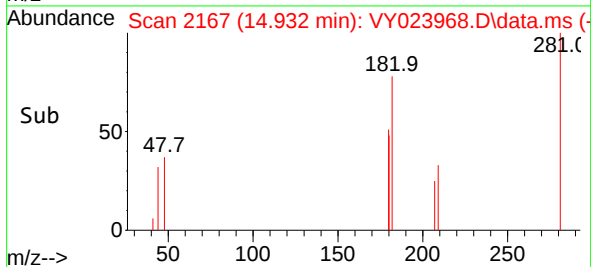
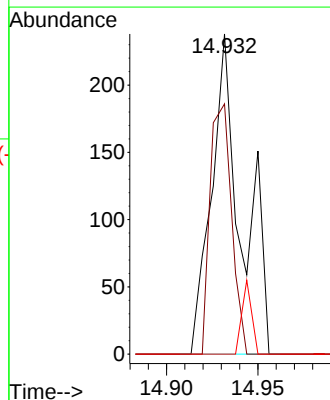
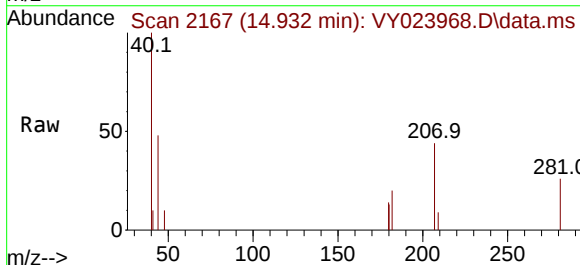
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MSVOA_Y
ClientSampleId :
TP02-MH09-VOC

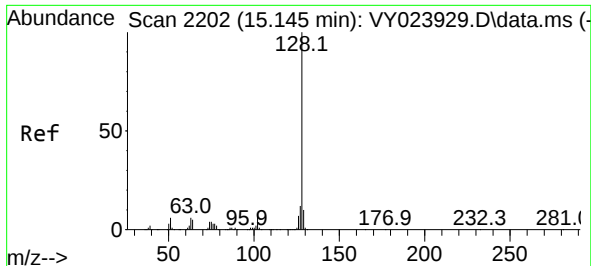
Tgt Ion:146 Resp: 136
Ion Ratio Lower Upper
146 100
111 0.0 19.6 58.7#
148 61.8 31.6 95.0



#93
1,2,4-Trichlorobenzene
Concen: 6.888 ug/l
RT: 14.932 min Scan# 2167
Delta R.T. 0.006 min
Lab File: VY023968.D
Acq: 15 Dec 2025 11:52

Tgt Ion:180 Resp: 272
Ion Ratio Lower Upper
180 100
182 56.3 47.6 142.9
145 7.4 14.8 44.4#

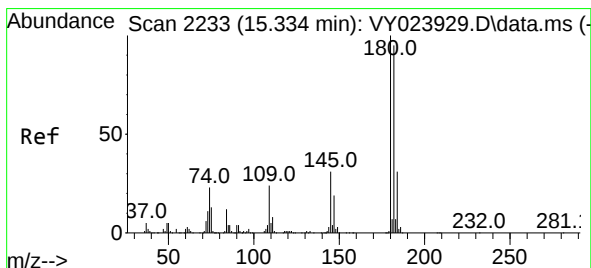
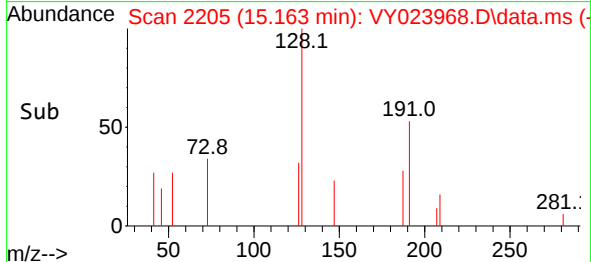
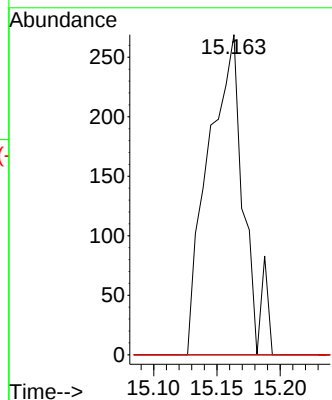
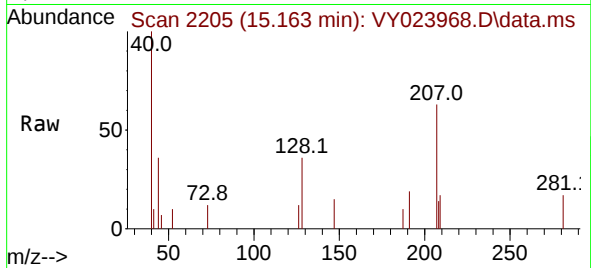




#95
Naphthalene
Concen: 8.631 ug/l
RT: 15.163 min Scan# 2205
Delta R.T. 0.018 min
Lab File: VY023968.D
Acq: 15 Dec 2025 11:52

Instrument :
MSVOA_Y
ClientSampleId :
TP02-MH09-VOC

Tgt Ion:128 Resp: 527
Ion Ratio Lower Upper
128 100
127 0.0 10.2 15.2#
129 0.0 8.6 12.8#



#96
1,2,3-Trichlorobenzene
Concen: 7.262 ug/l
RT: 15.340 min Scan# 2234
Delta R.T. 0.006 min
Lab File: VY023968.D
Acq: 15 Dec 2025 11:52

Tgt Ion:180 Resp: 244
Ion Ratio Lower Upper
180 100
182 23.0 47.8 143.4#
145 7.8 15.6 46.8#

