

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062725\
 Data File : VY022868.D
 Acq On : 27 Jun 2025 17:40
 Operator : SY/MD
 Sample : Q2452-07
 Misc : 5.63g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 EP-2-VOC

Quant Time: Jun 27 23:21:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

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

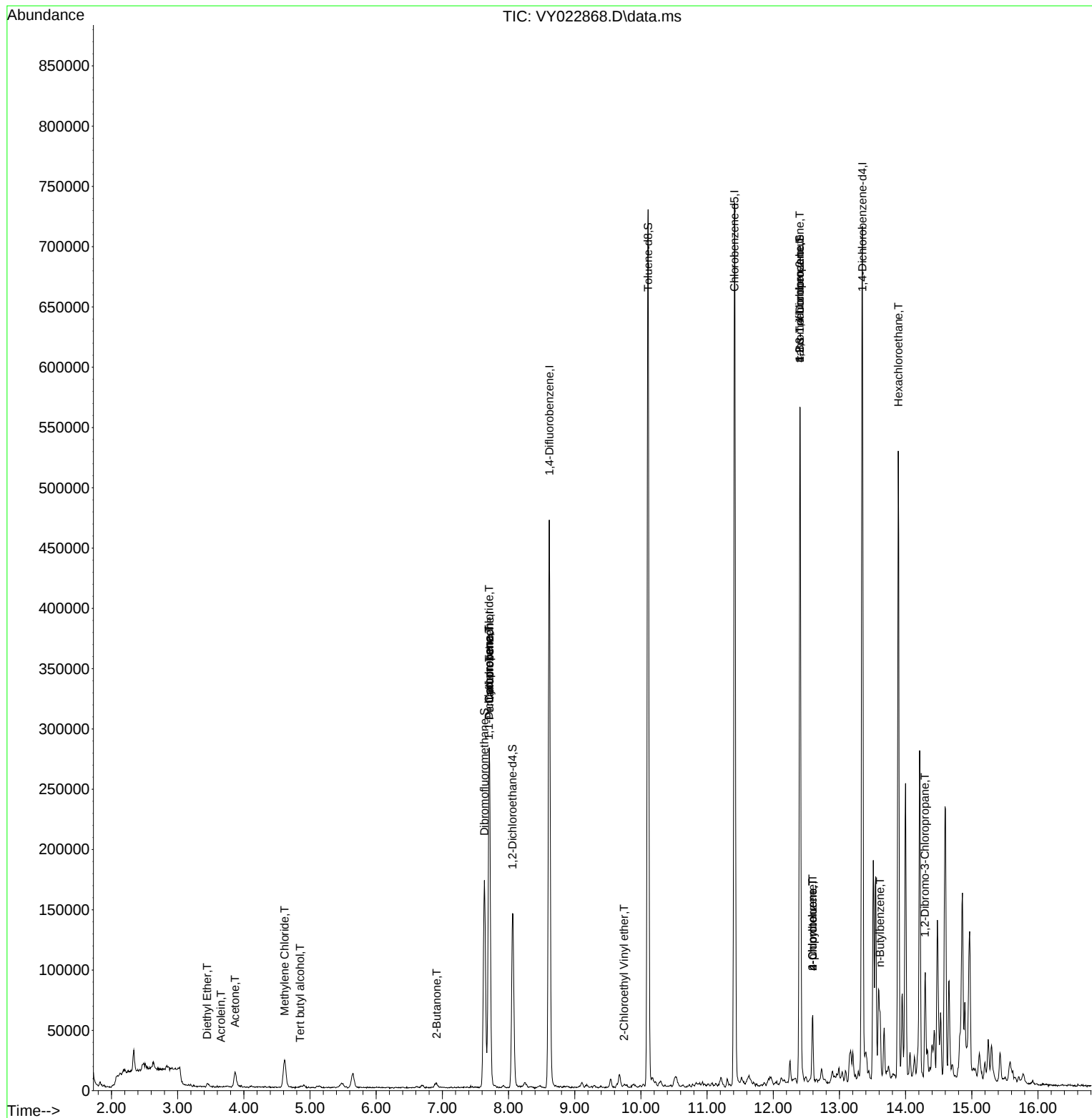
Internal Standards						
1) Pentafluorobenzene	7.713	168	210769	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	387449	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	377554	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	171179	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	114757	48.783	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	97.560%
35) Dibromofluoromethane	7.634	113	121953	51.757	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	103.520%
50) Toluene-d8	10.109	98	468295	50.085	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	100.160%
62) 4-Bromofluorobenzene	12.401	95	167915	55.865	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	111.720%
Target Compounds	Qvalue					
8) Diethyl Ether	3.446	74	1530	1.301	ug/l	74
11) Tert butyl alcohol	4.848	59	1108	7.084	ug/l #	73
13) Acrolein	3.653	56	400	1.886	ug/l	93
16) Acetone	3.866	43	22037	49.564	ug/l	97
20) Methylene Chloride	4.616	84	15892	5.660	ug/l	92
25) 2-Butanone	6.915	43	6649	10.275	ug/l	99
31) Cyclohexane	7.707	56	6135	1.518	ug/l #	43
36) 1,1-Dichloropropene	7.701	75	18592	5.206	ug/l #	51
38) Carbon Tetrachloride	7.707	117	21550	5.719	ug/l #	18
58) 2-Chloroethyl Vinyl ether	9.743	63	79	15.711	ug/l #	48
76) 1,2,3-Trichloropropane	12.401	75	96614	55.284	ug/l #	100
78) n-propylbenzene	12.597	91	40074	2.622	ug/l	99
79) 2-Chlorotoluene	12.597	91	40074	4.640	ug/l #	41
81) trans-1,4-Dichloro-2-b...	12.401	75	96614	139.669	ug/l #	11
82) 4-Chlorotoluene	12.597	91	40074	4.418	ug/l #	41
89) n-Butylbenzene	13.615	91	30945	2.915	ug/l #	79
90) Hexachloroethane	13.889	117	24658	10.971	ug/l #	16
92) 1,2-Dibromo-3-Chloropr...	14.291	75	435	1.257	ug/l #	5

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

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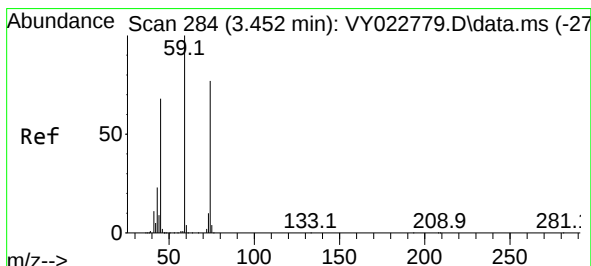
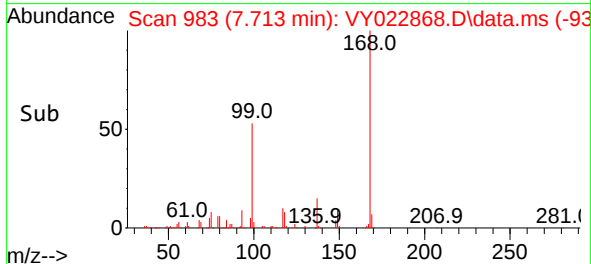
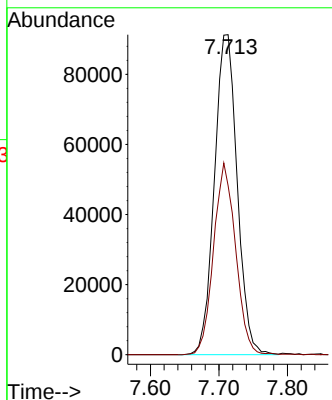
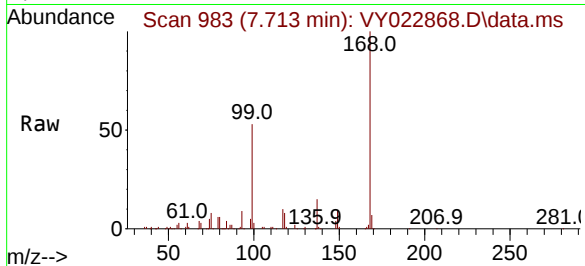




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY022868.D
Acq: 27 Jun 2025 17:40

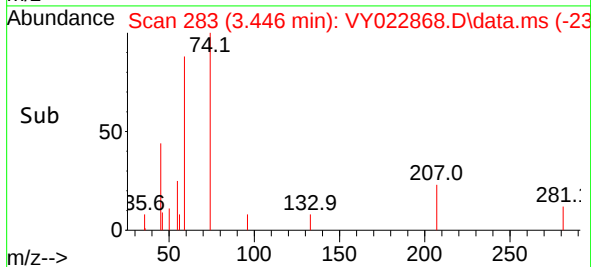
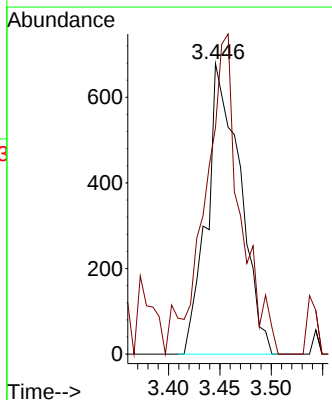
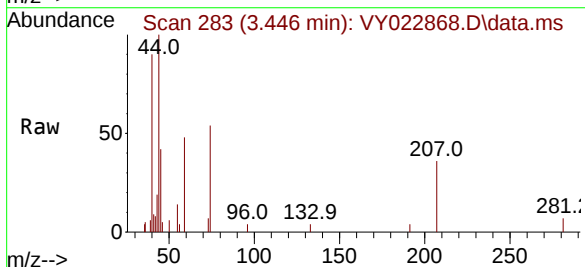
Instrument :
MSVOA_Y
ClientSampleId :
EP-2-VOC

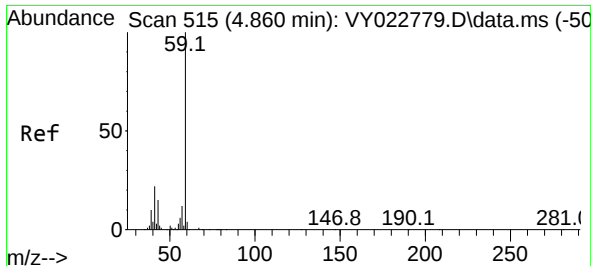
Tgt Ion:168 Resp: 210769
Ion Ratio Lower Upper
168 100
99 52.8 44.3 66.5



#8
Diethyl Ether
Concen: 1.301 ug/l
RT: 3.446 min Scan# 283
Delta R.T. -0.018 min
Lab File: VY022868.D
Acq: 27 Jun 2025 17:40

Tgt Ion: 74 Resp: 1530
Ion Ratio Lower Upper
74 100
45 116.2 45.9 137.6





#11

Tert butyl alcohol

Concen: 7.084 ug/l

RT: 4.848 min Scan# 51

Delta R.T. -0.037 min

Lab File: VY022868.D

Acq: 27 Jun 2025 17:40

Instrument :

MSVOA_Y

ClientSampleId :

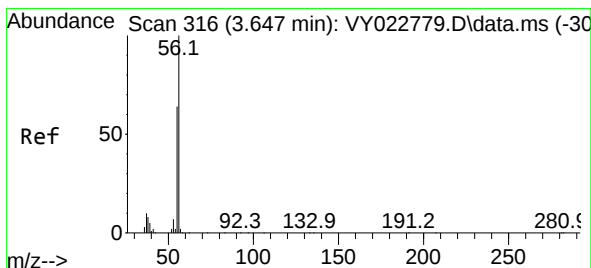
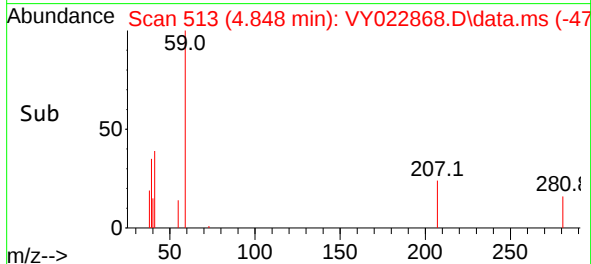
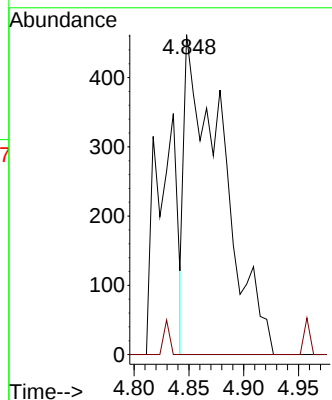
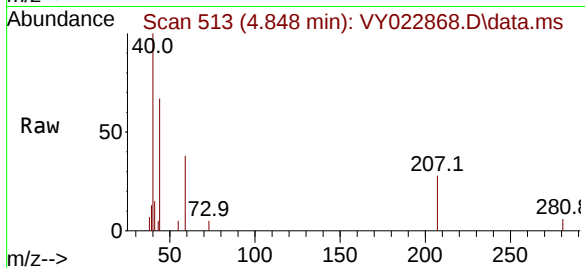
EP-2-VOC

Tgt Ion: 59 Resp: 1108

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#



#13

Acrolein

Concen: 1.886 ug/l

RT: 3.653 min Scan# 317

Delta R.T. -0.006 min

Lab File: VY022868.D

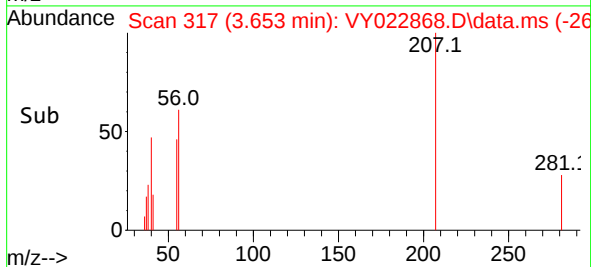
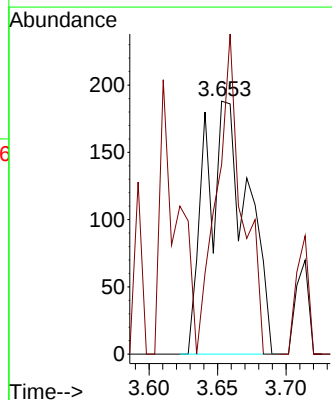
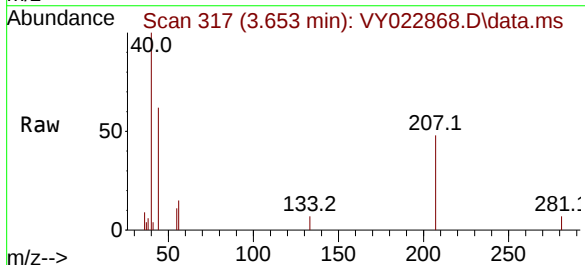
Acq: 27 Jun 2025 17:40

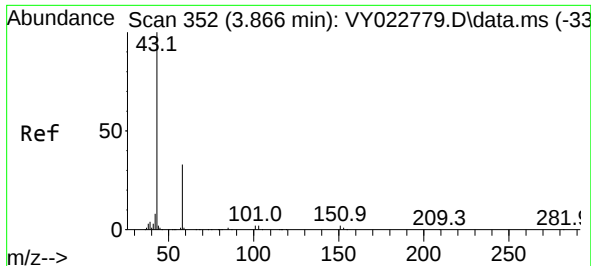
Tgt Ion: 56 Resp: 400

Ion Ratio Lower Upper

56 100

55 77.0 57.0 85.6





#16

Acetone

Concen: 49.564 ug/l

RT: 3.866 min Scan# 3

Delta R.T. -0.012 min

Lab File: VY022868.D

Acq: 27 Jun 2025 17:40

Instrument :

MSVOA_Y

ClientSampleId :

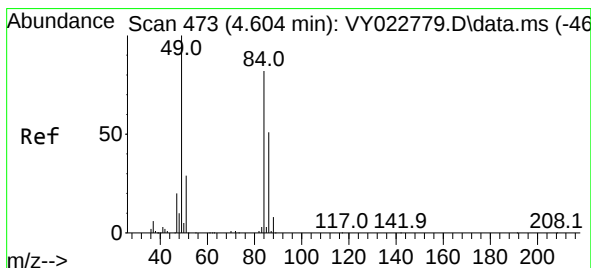
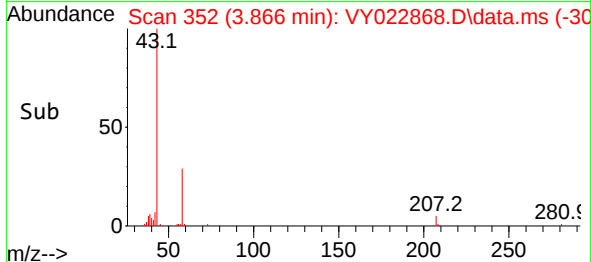
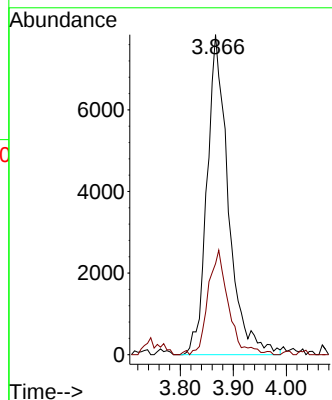
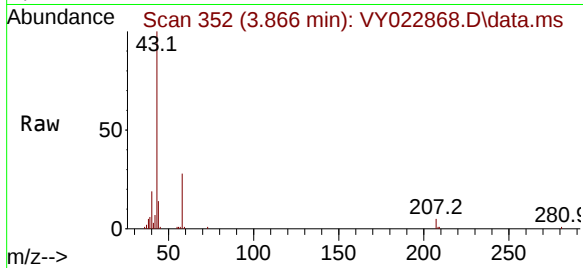
EP-2-VOC

Tgt Ion: 43 Resp: 22037

Ion Ratio Lower Upper

43 100

58 28.4 24.0 36.0



#20

Methylene Chloride

Concen: 5.660 ug/l

RT: 4.616 min Scan# 475

Delta R.T. -0.006 min

Lab File: VY022868.D

Acq: 27 Jun 2025 17:40

Tgt Ion: 84 Resp: 15892

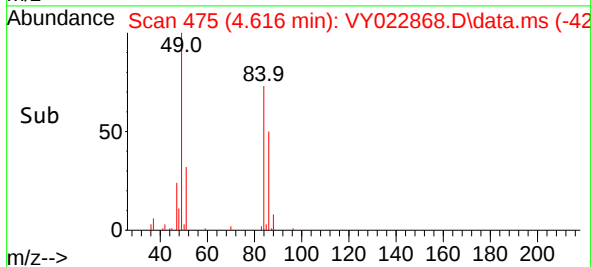
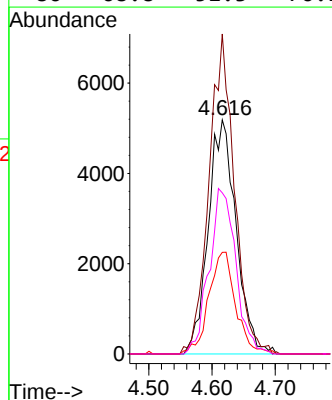
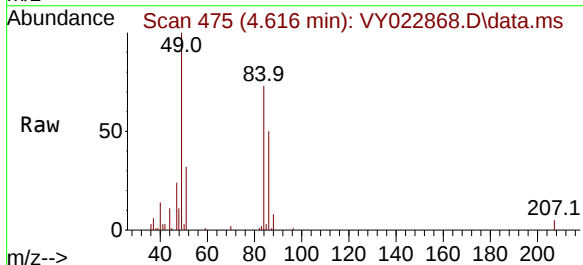
Ion Ratio Lower Upper

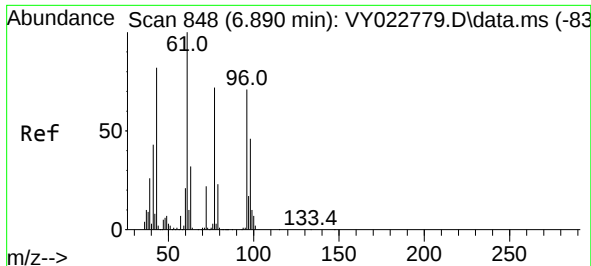
84 100

49 136.7 101.9 152.9

51 43.4 29.8 44.8

86 68.8 51.3 76.9

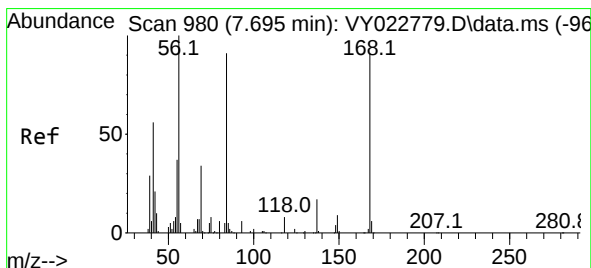
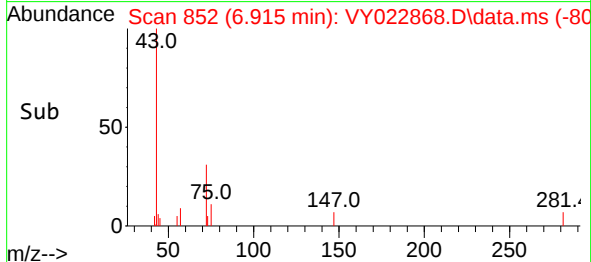
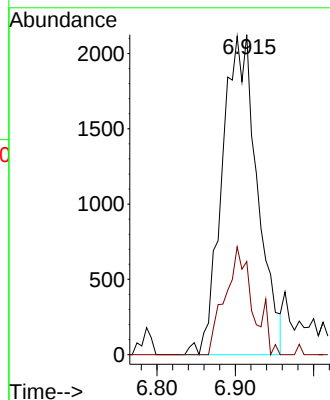
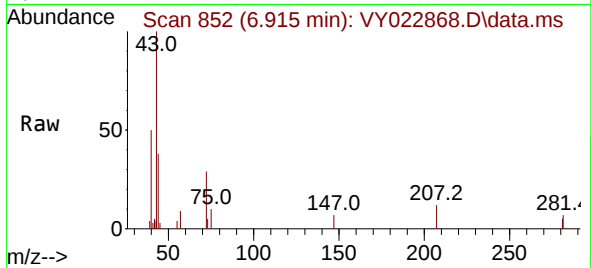




#25
2-Butanone
Concen: 10.275 ug/l
RT: 6.915 min Scan# 852
Delta R.T. 0.012 min
Lab File: VY022868.D
Acq: 27 Jun 2025 17:40

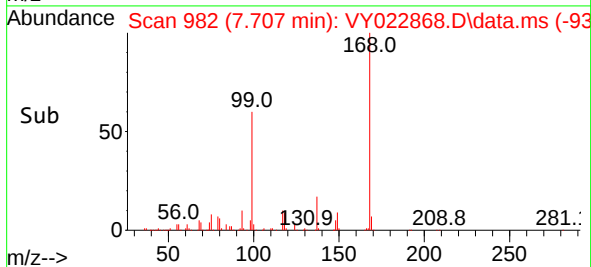
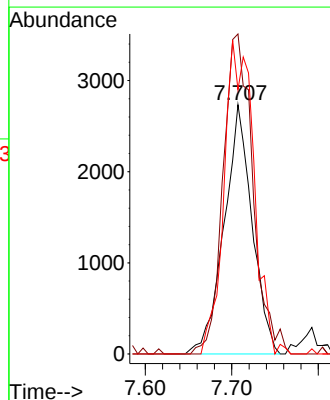
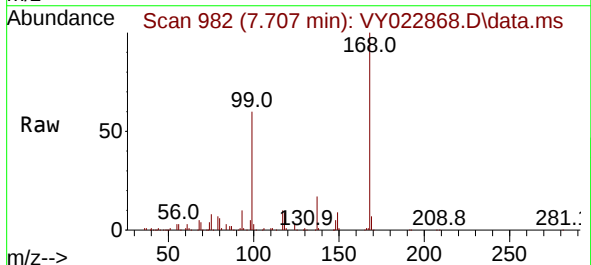
Instrument :
MSVOA_Y
ClientSampleId :
EP-2-VOC

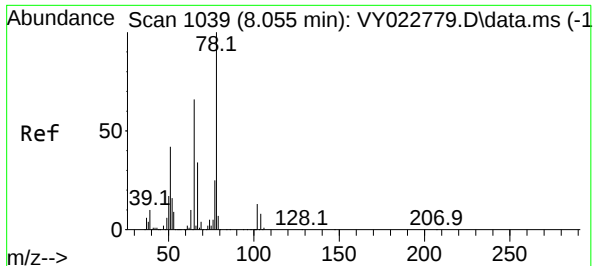
Tgt Ion: 43 Resp: 6649
Ion Ratio Lower Upper
43 100
72 29.1 22.9 34.3



#31
Cyclohexane
Concen: 1.518 ug/l
RT: 7.707 min Scan# 982
Delta R.T. -0.000 min
Lab File: VY022868.D
Acq: 27 Jun 2025 17:40

Tgt Ion: 56 Resp: 6135
Ion Ratio Lower Upper
56 100
69 128.3 27.0 40.6#
84 106.0 72.6 109.0





#33

1,2-Dichloroethane-d4

Concen: 48.783 ug/l

RT: 8.061 min Scan# 110

Delta R.T. -0.006 min

Lab File: VY022868.D

Acq: 27 Jun 2025 17:40

Instrument :

MSVOA_Y

ClientSampleId :

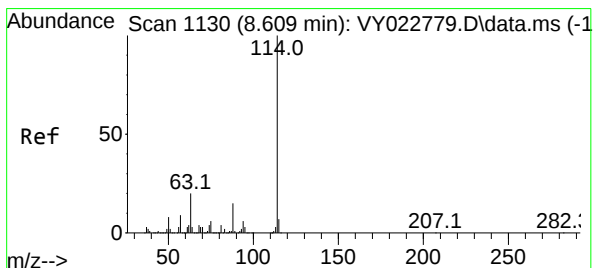
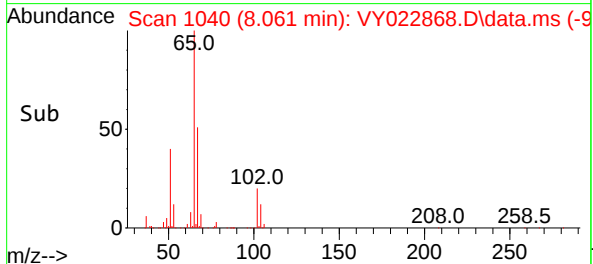
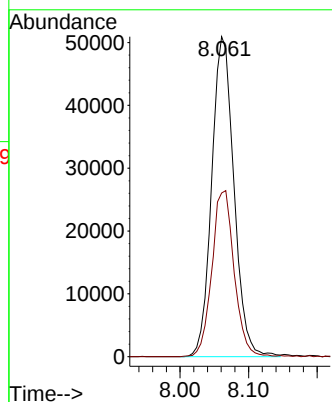
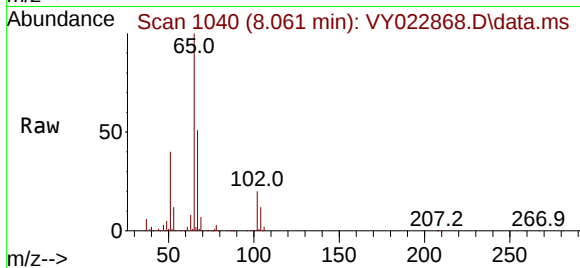
EP-2-VOC

Tgt Ion: 65 Resp: 114757

Ion Ratio Lower Upper

65 100

67 51.9 0.0 103.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY022868.D

Acq: 27 Jun 2025 17:40

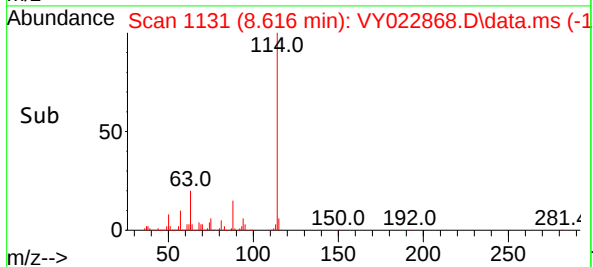
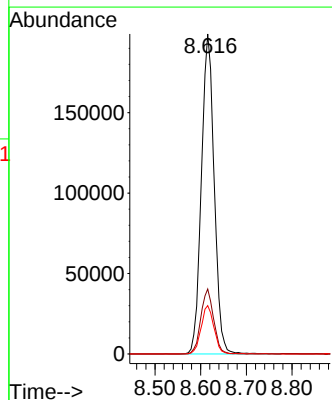
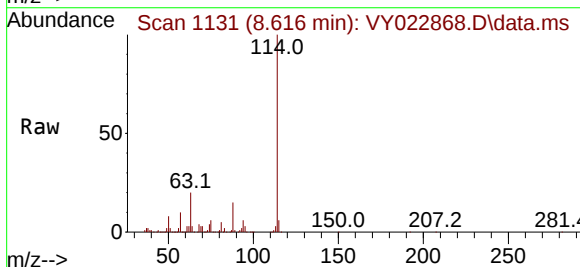
Tgt Ion:114 Resp: 387449

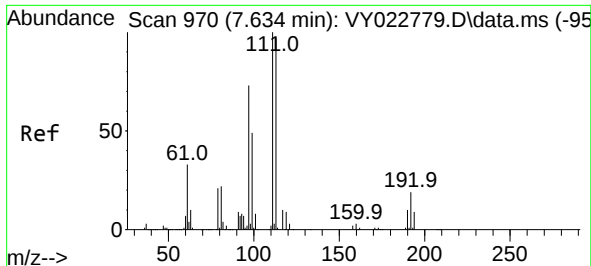
Ion Ratio Lower Upper

114 100

63 20.3 0.0 40.8

88 15.1 0.0 27.8

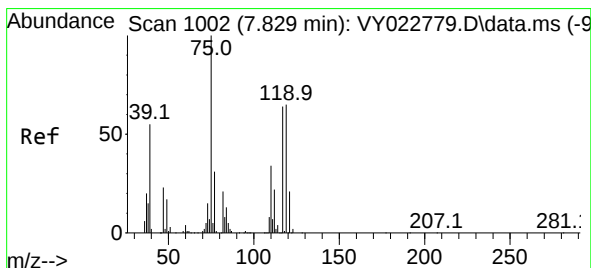
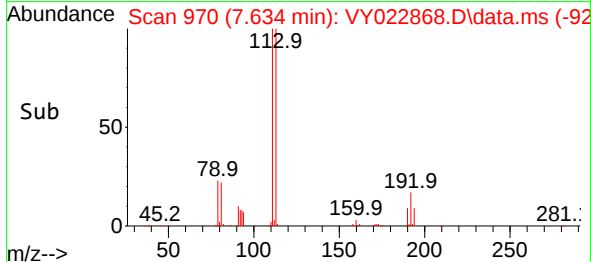
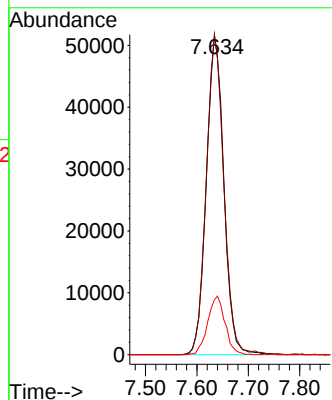
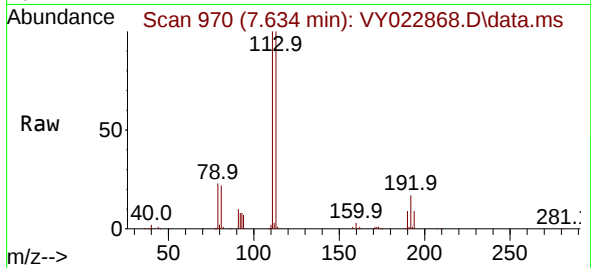




#35
Dibromofluoromethane
Concen: 51.757 ug/l
RT: 7.634 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY022868.D
Acq: 27 Jun 2025 17:40

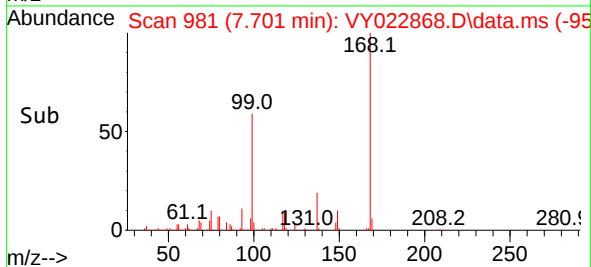
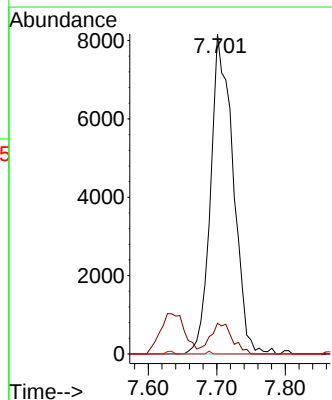
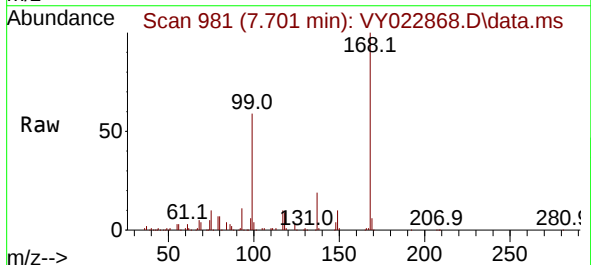
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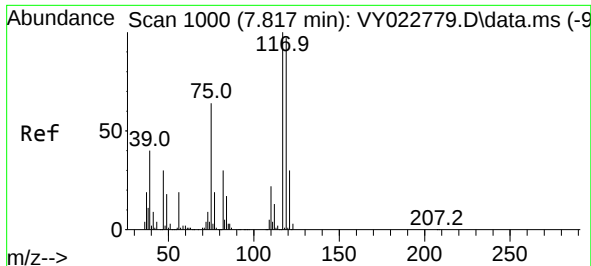
Tgt Ion:113 Resp: 121953
Ion Ratio Lower Upper
113 100
111 100.9 81.1 121.7
192 18.2 14.2 21.2



#36
1,1-Dichloropropene
Concen: 5.206 ug/l
RT: 7.701 min Scan# 981
Delta R.T. -0.140 min
Lab File: VY022868.D
Acq: 27 Jun 2025 17:40

Tgt Ion: 75 Resp: 18592
Ion Ratio Lower Upper
75 100
110 9.6 16.9 50.7#
77 0.0 24.8 37.2#

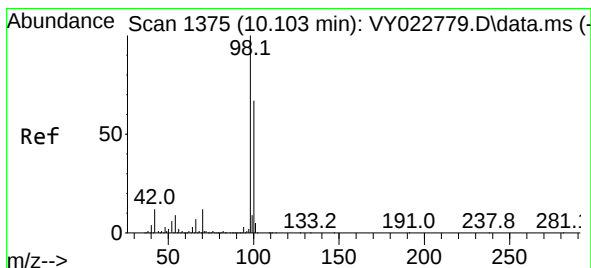
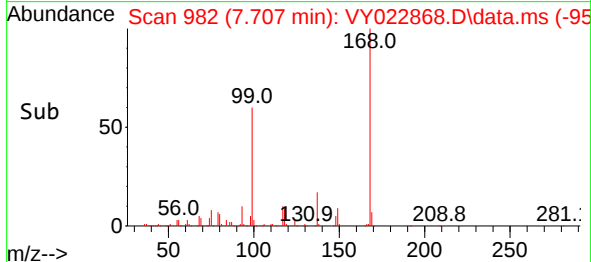
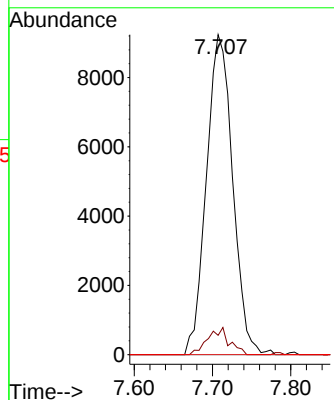
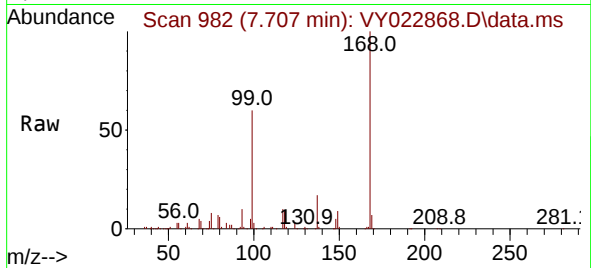




#38
Carbon Tetrachloride
Concen: 5.719 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.116 min
Lab File: VY022868.D
Acq: 27 Jun 2025 17:40

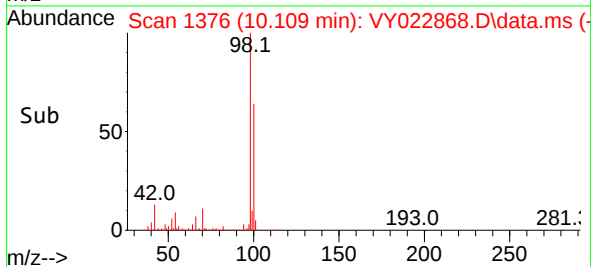
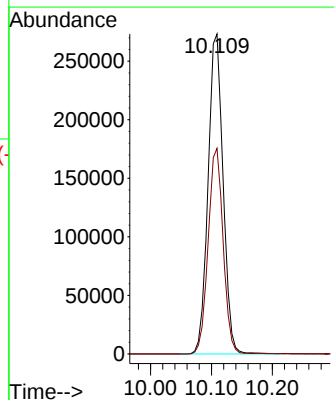
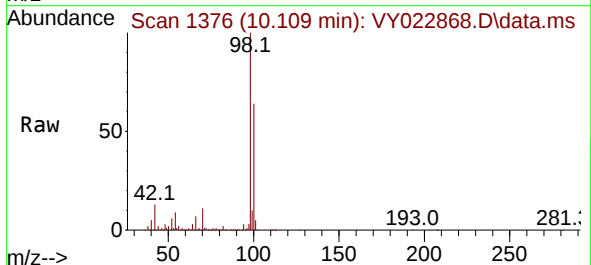
Instrument :
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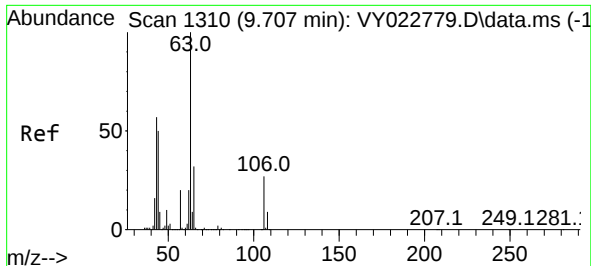
Tgt Ion:117 Resp: 21550
Ion Ratio Lower Upper
117 100
119 6.1 75.0 112.6#
121 0.0 25.0 37.4#



#50
Toluene-d8
Concen: 50.085 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. -0.000 min
Lab File: VY022868.D
Acq: 27 Jun 2025 17:40

Tgt Ion: 98 Resp: 468295
Ion Ratio Lower Upper
98 100
100 64.0 51.4 77.0

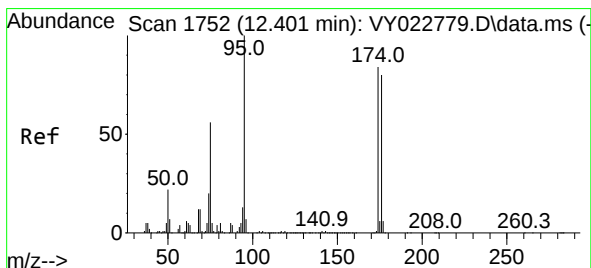
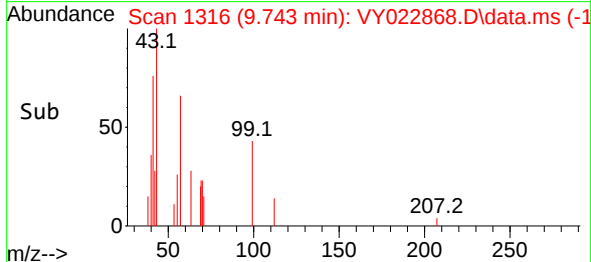
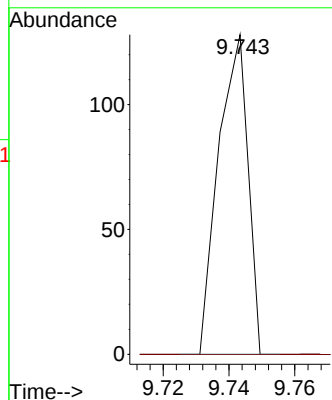
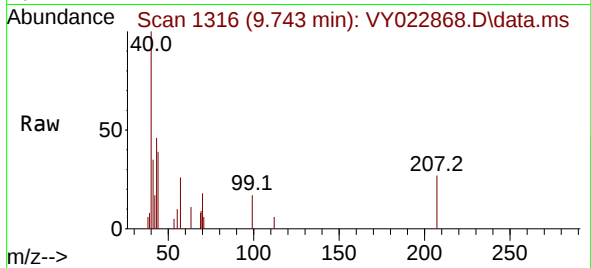




#58
2-Chloroethyl Vinyl ether
Concen: 15.711 ug/l
RT: 9.743 min Scan# 11
Delta R.T. 0.030 min
Lab File: VY022868.D
Acq: 27 Jun 2025 17:40

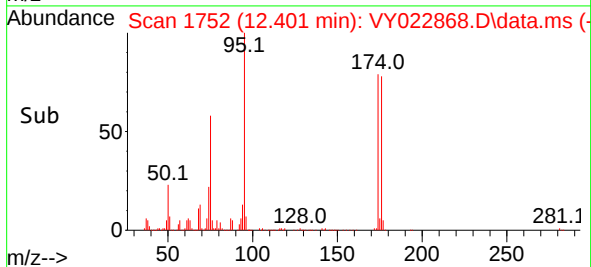
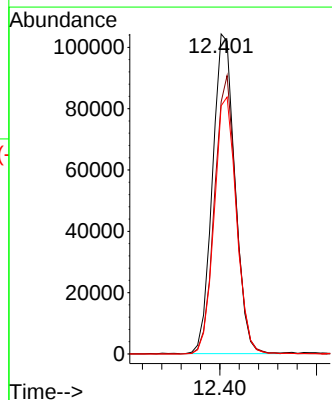
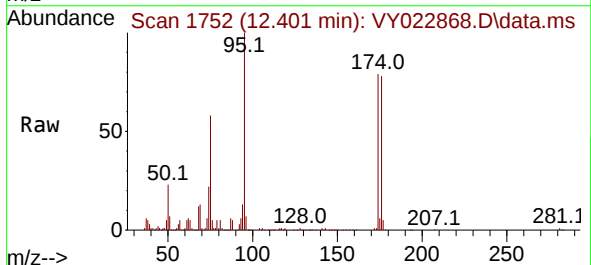
Instrument :
MSVOA_Y
ClientSampleId :
EP-2-VOC

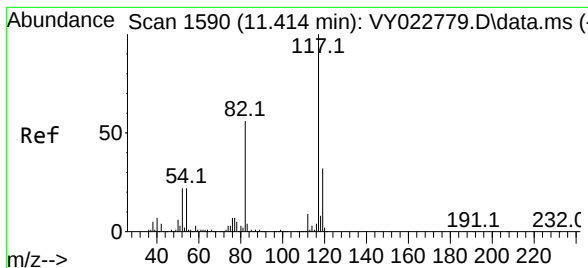
Tgt Ion: 63 Resp: 79
Ion Ratio Lower Upper
63 100
106 0.0 21.6 32.4#



#62
4-Bromofluorobenzene
Concen: 55.865 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022868.D
Acq: 27 Jun 2025 17:40

Tgt Ion: 95 Resp: 167915
Ion Ratio Lower Upper
95 100
174 83.9 0.0 170.0
176 79.8 0.0 166.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY022868.D

Acq: 27 Jun 2025 17:40

Instrument :

MSVOA_Y

ClientSampleId :

EP-2-VOC

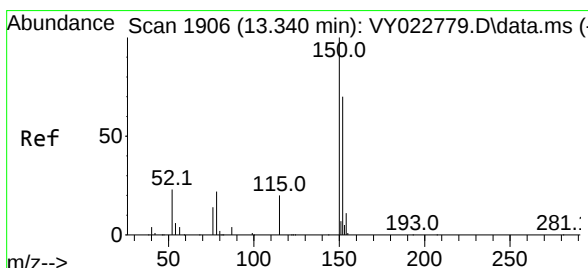
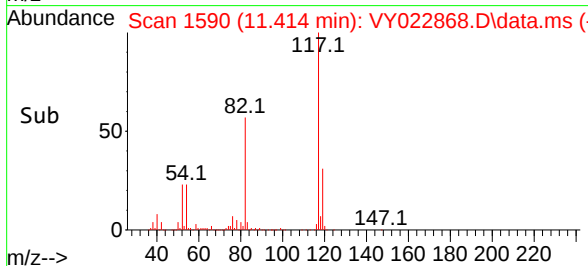
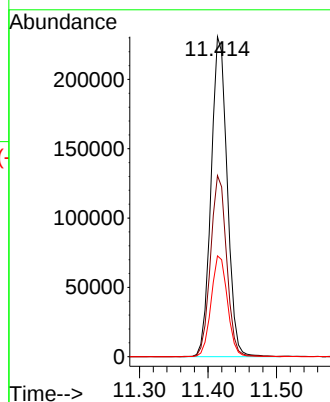
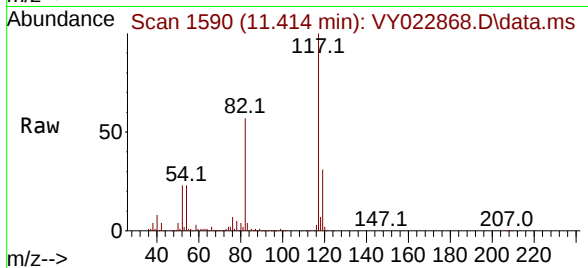
Tgt Ion:117 Resp: 377554

Ion Ratio Lower Upper

117 100

82 56.6 44.6 66.8

119 31.5 25.4 38.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY022868.D

Acq: 27 Jun 2025 17:40

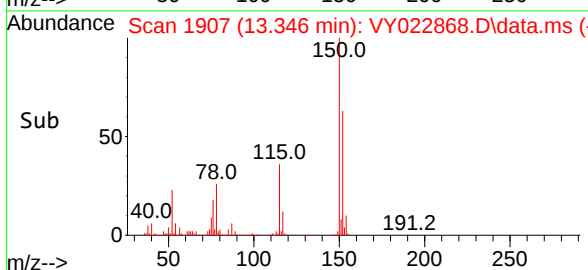
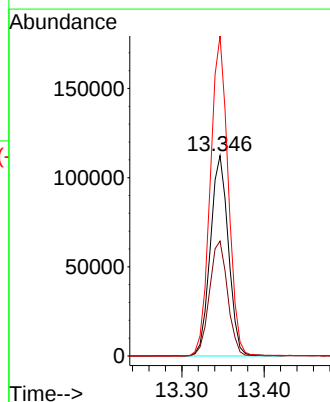
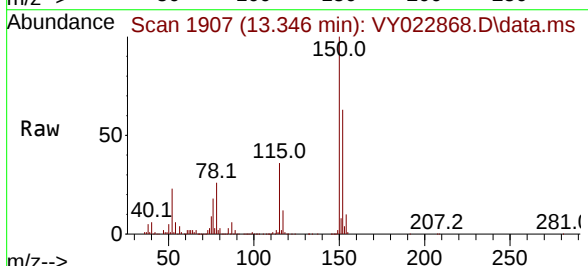
Tgt Ion:152 Resp: 171179

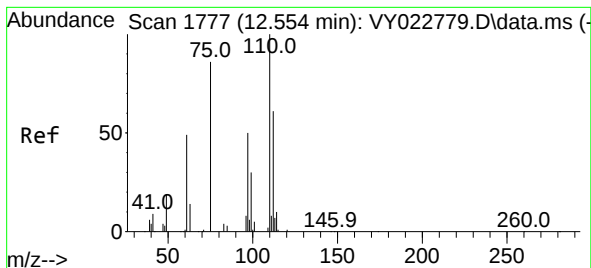
Ion Ratio Lower Upper

152 100

115 57.9 28.9 86.7

150 158.0 0.0 349.6





#76

1,2,3-Trichloropropane

Concen: 55.284 ug/l

RT: 12.401 min Scan# 1752

Delta R.T. -0.153 min

Lab File: VY022868.D

Acq: 27 Jun 2025 17:40

Instrument :

MSVOA_Y

ClientSampleId :

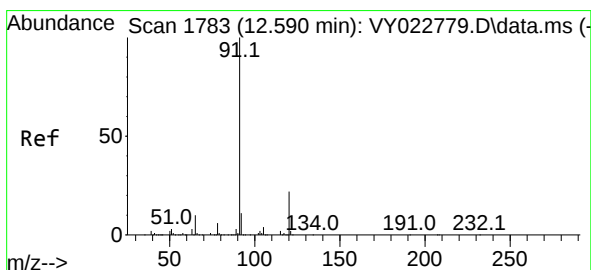
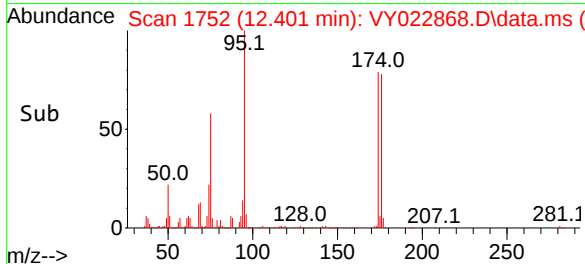
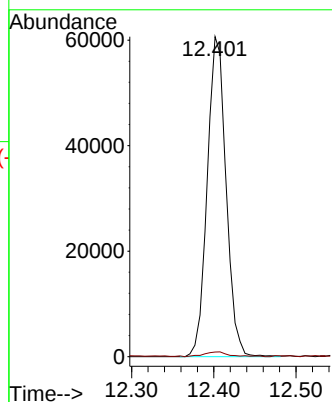
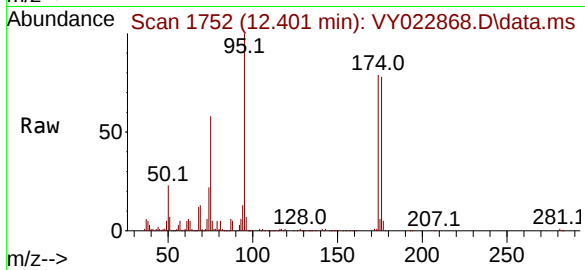
EP-2-VOC

Tgt Ion: 75 Resp: 96614

Ion Ratio Lower Upper

75 100

77 2.0 0.0 0.0#



#78

n-propylbenzene

Concen: 2.622 ug/l

RT: 12.597 min Scan# 1784

Delta R.T. -0.000 min

Lab File: VY022868.D

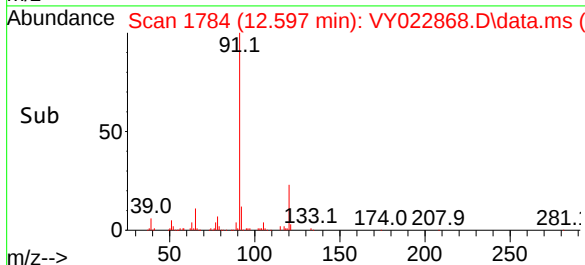
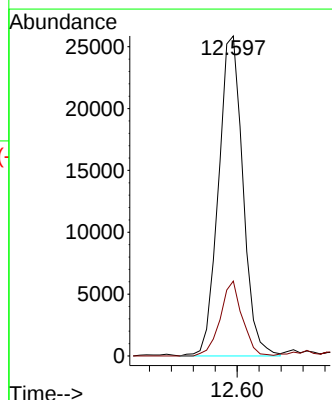
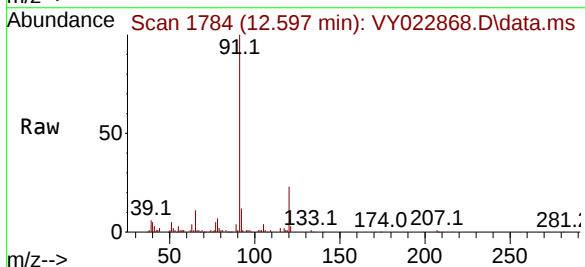
Acq: 27 Jun 2025 17:40

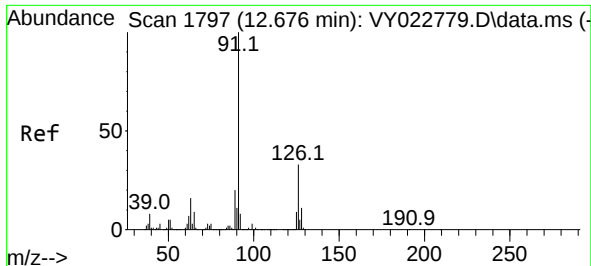
Tgt Ion: 91 Resp: 40074

Ion Ratio Lower Upper

91 100

120 21.1 10.8 32.4

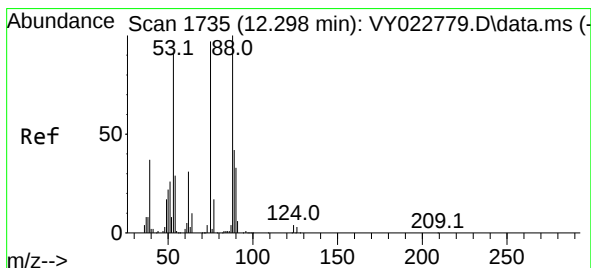
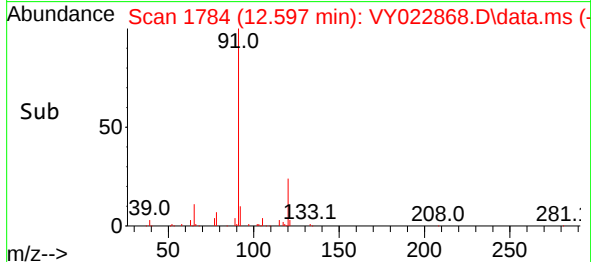
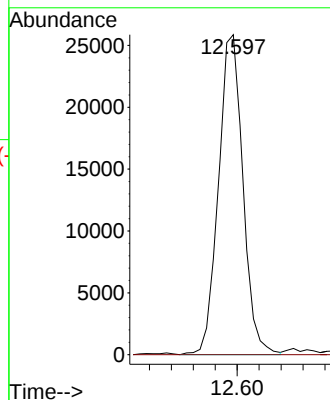
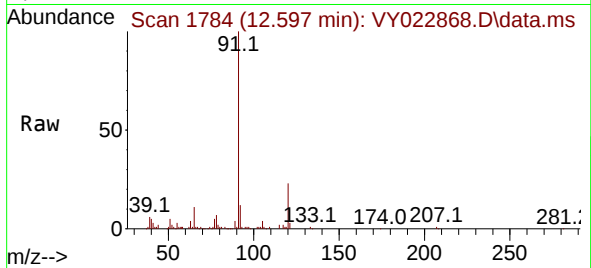




#79
2-Chlorotoluene
Concen: 4.640 ug/l
RT: 12.597 min Scan# 1752
Delta R.T. -0.086 min
Lab File: VY022868.D
Acq: 27 Jun 2025 17:40

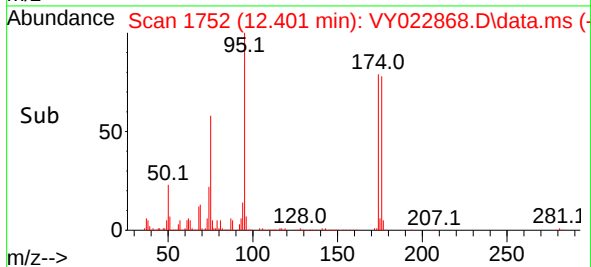
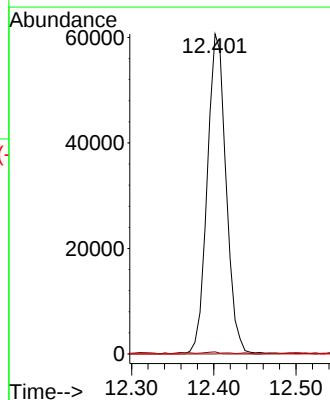
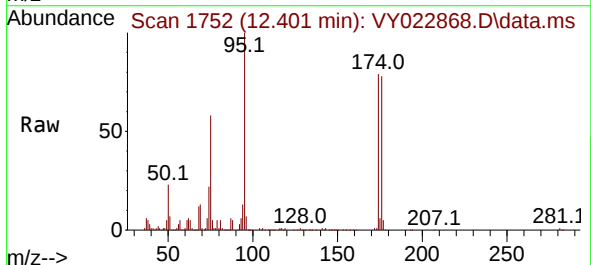
Instrument :
MSVOA_Y
ClientSampleId :
EP-2-VOC

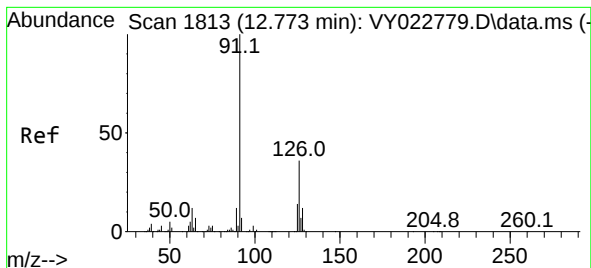
Tgt Ion: 91 Resp: 40074
Ion Ratio Lower Upper
91 100
126 0.0 17.0 51.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 139.669 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.097 min
Lab File: VY022868.D
Acq: 27 Jun 2025 17:40

Tgt Ion: 75 Resp: 96614
Ion Ratio Lower Upper
75 100
53 0.6 78.5 117.7#
89 0.0 35.7 53.5#

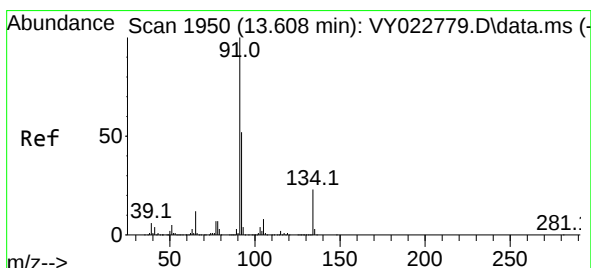
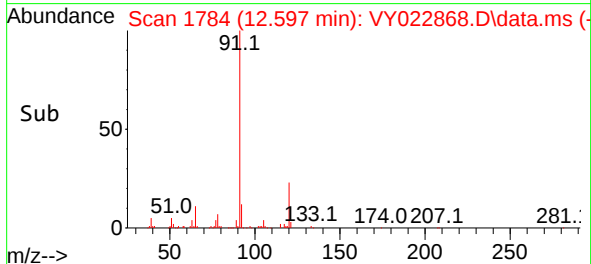
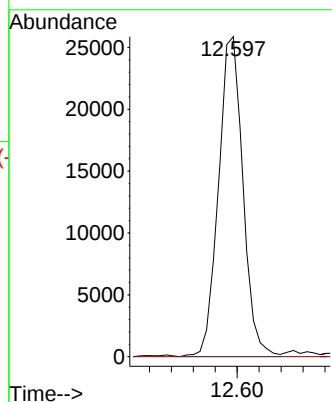
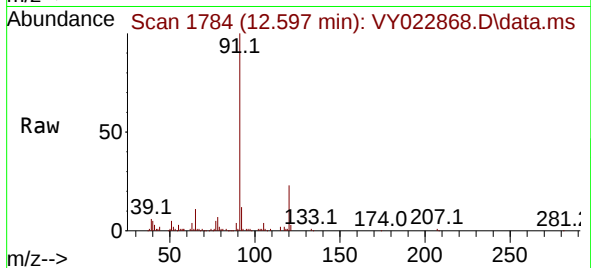




#82
4-Chlorotoluene
Concen: 4.418 ug/l
RT: 12.597 min Scan# 11
Delta R.T. -0.183 min
Lab File: VY022868.D
Acq: 27 Jun 2025 17:40

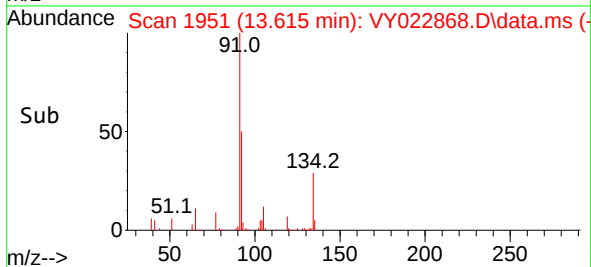
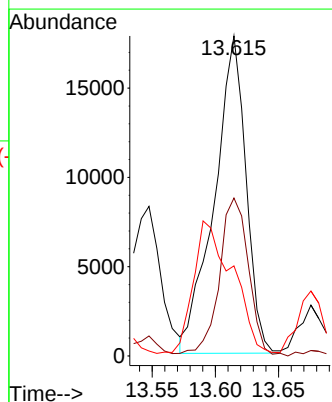
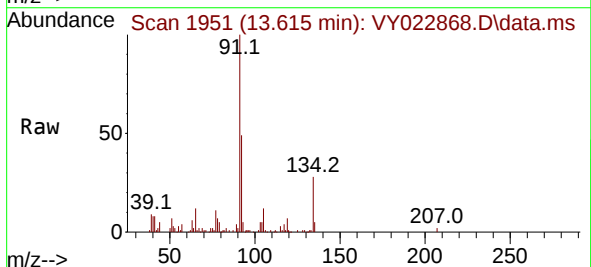
Instrument :
MSVOA_Y
ClientSampleId :
EP-2-VOC

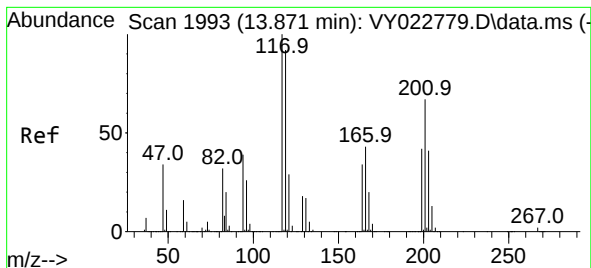
Tgt Ion: 91 Resp: 40074
Ion Ratio Lower Upper
91 100
126 0.0 17.0 50.9#



#89
n-Butylbenzene
Concen: 2.915 ug/l
RT: 13.615 min Scan# 1951
Delta R.T. -0.006 min
Lab File: VY022868.D
Acq: 27 Jun 2025 17:40

Tgt Ion: 91 Resp: 30945
Ion Ratio Lower Upper
91 100
92 46.1 25.9 77.8
134 0.0 12.0 36.1#





#90

Hexachloroethane

Concen: 10.971 ug/l

RT: 13.889 min Scan# 1996

Delta R.T. 0.006 min

Lab File: VY022868.D

Acq: 27 Jun 2025 17:40

Instrument :

MSVOA_Y

ClientSampleId :

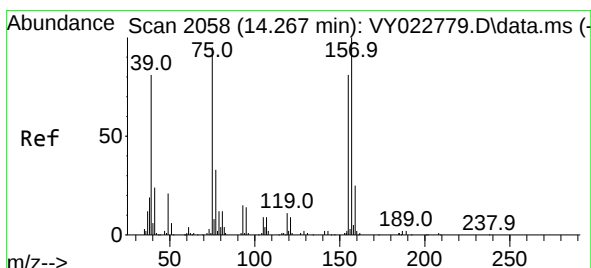
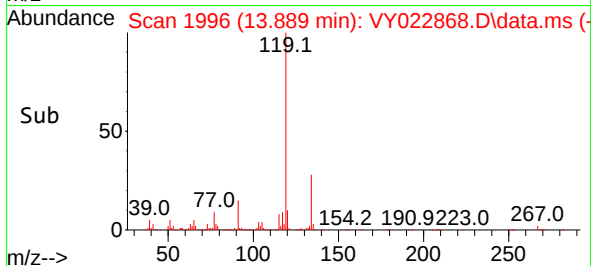
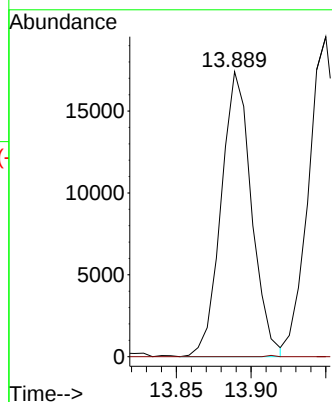
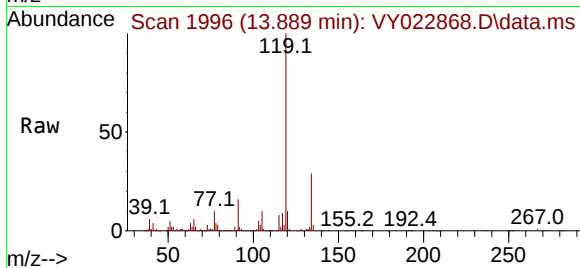
EP-2-VOC

Tgt Ion:117 Resp: 24658

Ion Ratio Lower Upper

117 100

201 0.0 34.0 102.0#



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.257 ug/l

RT: 14.291 min Scan# 2062

Delta R.T. 0.018 min

Lab File: VY022868.D

Acq: 27 Jun 2025 17:40

Tgt Ion: 75 Resp: 435

Ion Ratio Lower Upper

75 100

155 0.0 39.9 119.6#

157 5.5 54.0 162.0#

