

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062025\
 Data File : VY022764.D
 Acq On : 20 Jun 2025 14:58
 Operator : SY/MD
 Sample : Q2388-03
 Misc : 5.14g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-12-VOC

Quant Time: Jun 21 02:40:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 10 15:26:14 2025
 Response via : Initial Calibration

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

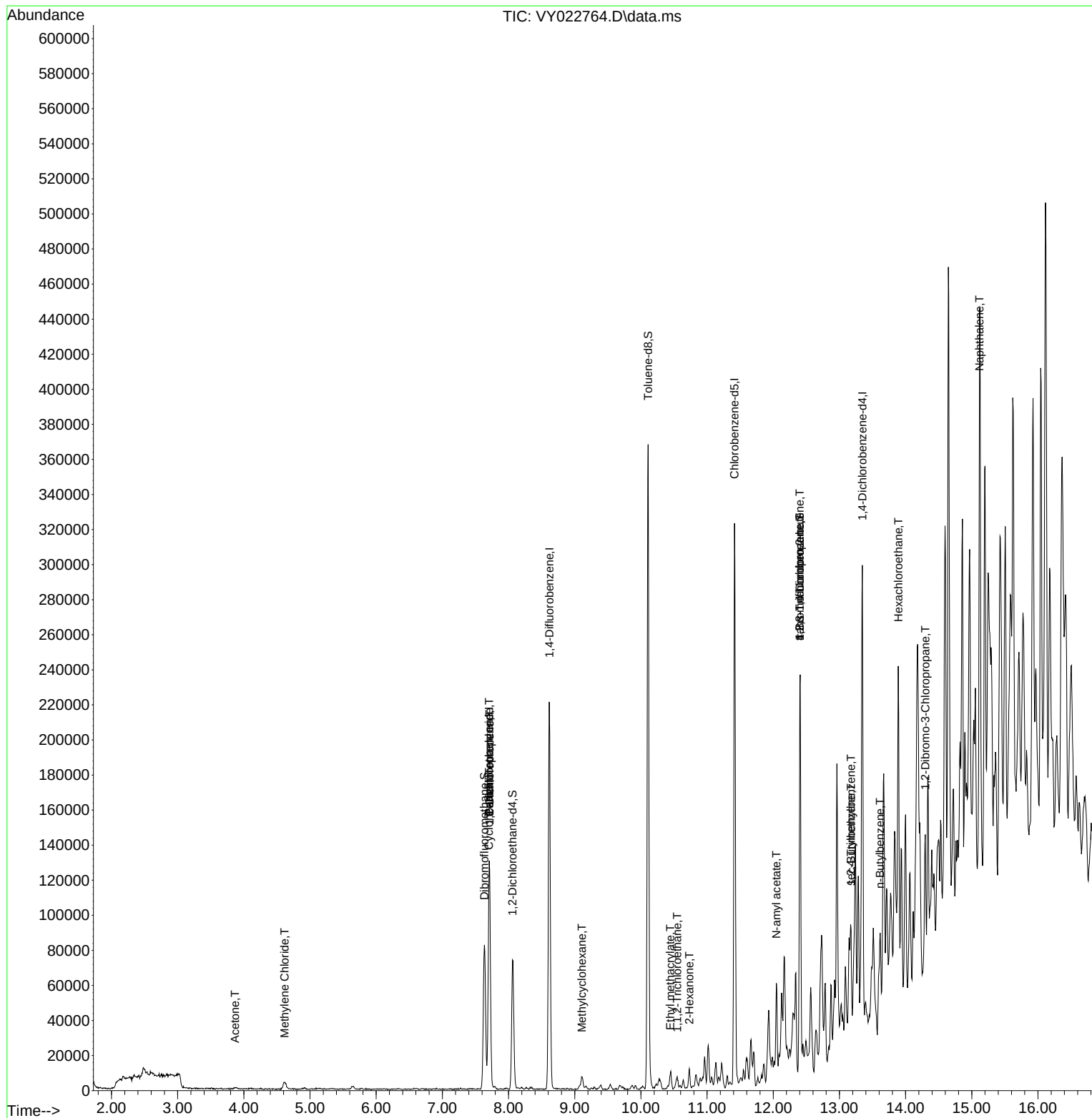
Internal Standards						
1) Pentafluorobenzene	7.707	168	94781	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	181687	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	155033	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	61286	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	56029	52.854	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 105.700%	
35) Dibromofluoromethane	7.634	113	57014	52.574	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 105.140%	
50) Toluene-d8	10.109	98	222752	50.835	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 101.660%	
62) 4-Bromofluorobenzene	12.401	95	61282	46.939	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 93.880%	
Target Compounds						Qvalue
16) Acetone	3.866	43	1461	6.786	ug/l #	75
20) Methylene Chloride	4.616	84	2915	2.384	ug/l #	75
31) Cyclohexane	7.701	56	3355	1.647	ug/l #	62
36) 1,1-Dichloropropene	7.713	75	8737	4.964	ug/l #	52
38) Carbon Tetrachloride	7.707	117	10002	5.540	ug/l #	19
39) Methylcyclohexane	9.109	83	2886	1.220	ug/l #	84
55) 1,1,2-Trichloroethane	10.548	97	2108	2.392	ug/l #	22
56) Ethyl methacrylate	10.444	69	1569	1.232	ug/l #	5
59) 2-Hexanone	10.731	43	3874	6.854	ug/l #	27
74) N-amyl acetate	12.048	43	10987	8.654	ug/l #	63
76) 1,2,3-Trichloropropane	12.401	75	35854	51.137	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.401	75	35854	123.493	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.176	105	26602	6.733	ug/l #	31
85) sec-Butylbenzene	13.176	105	26602	4.899	ug/l	87
89) n-Butylbenzene	13.615	91	26148	6.158	ug/l	90
90) Hexachloroethane	13.889	117	6186	7.099	ug/l #	16
92) 1,2-Dibromo-3-Chloropr...	14.297	75	410	3.410	ug/l #	2
95) Naphthalene	15.114	128	3789	1.982	ug/l #	1

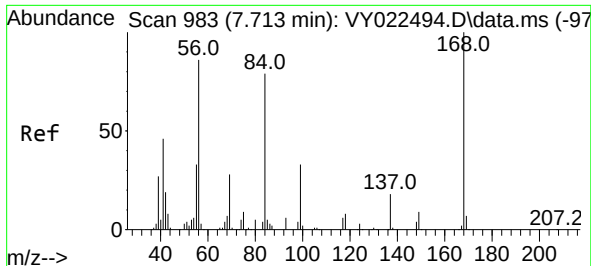
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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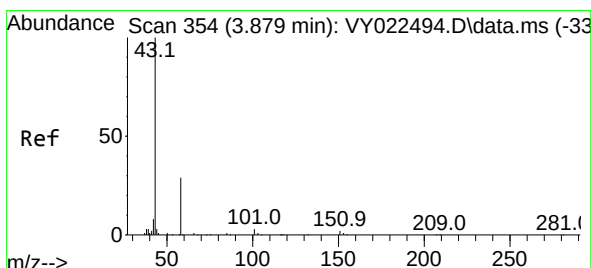
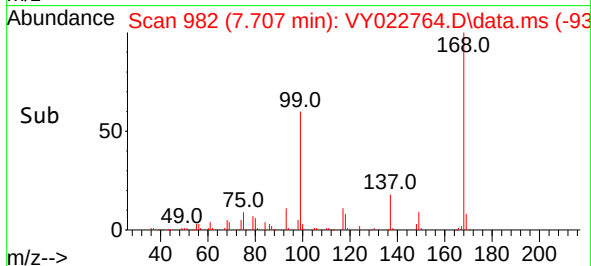
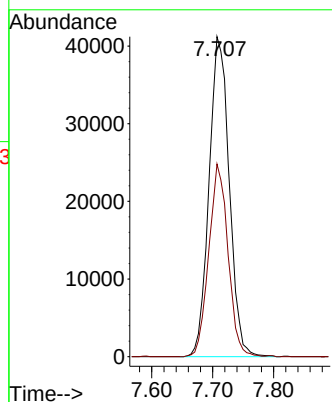
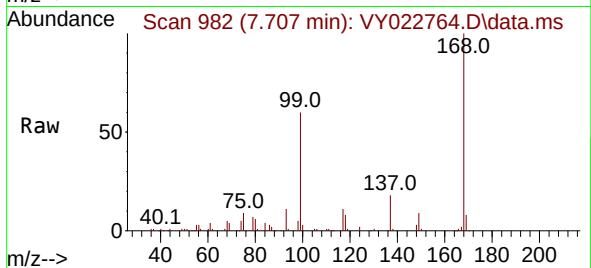




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY022764.D
Acq: 20 Jun 2025 14:58

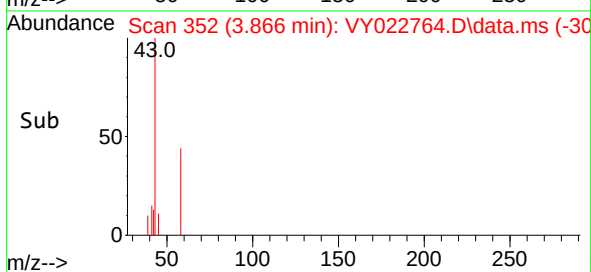
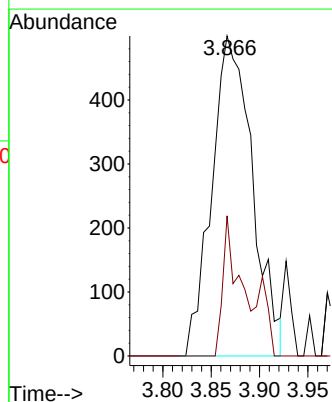
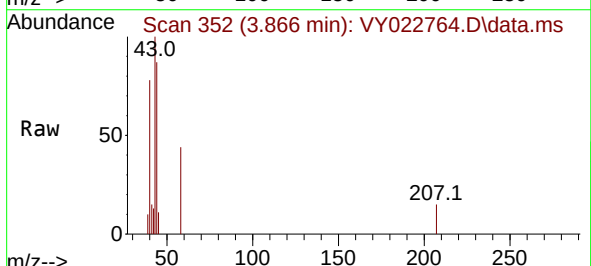
Instrument :
MSVOA_Y
ClientSampleId :
TP-12-VOC

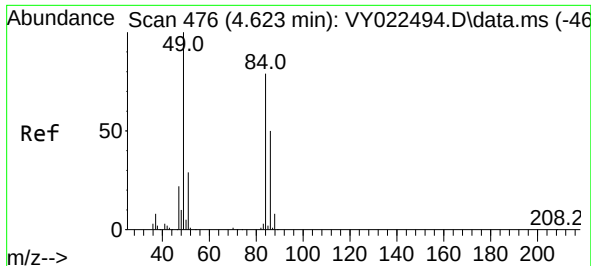
Tgt Ion:168 Resp: 94781
Ion Ratio Lower Upper
168 100
99 60.2 44.3 66.5



#16
Acetone
Concen: 6.786 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.012 min
Lab File: VY022764.D
Acq: 20 Jun 2025 14:58

Tgt Ion: 43 Resp: 1461
Ion Ratio Lower Upper
43 100
58 43.8 24.0 36.0#

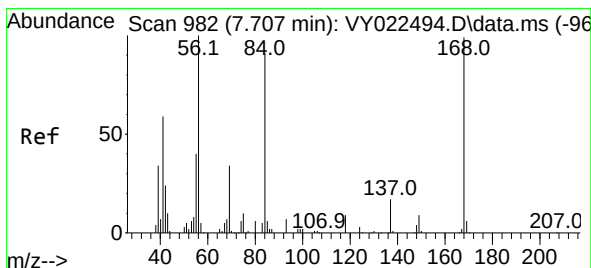
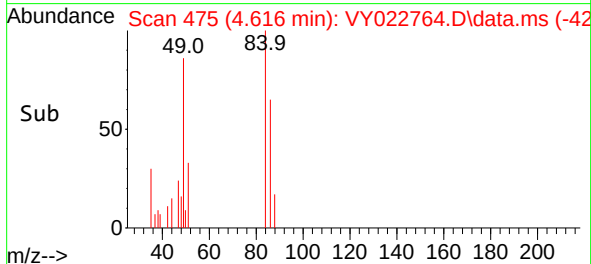
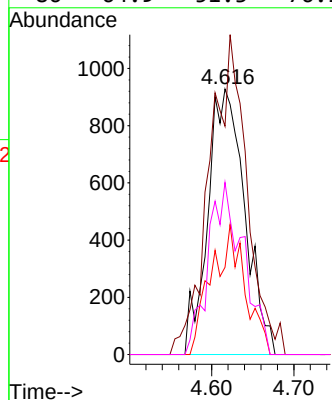
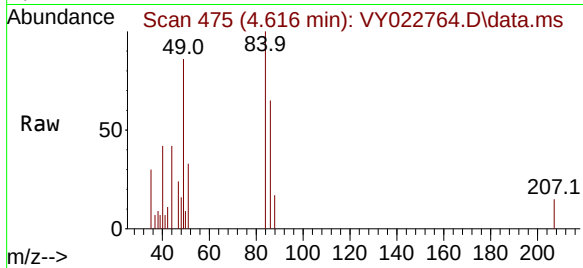




#20
Methylene Chloride
Concen: 2.384 ug/l
RT: 4.616 min Scan# 41
Delta R.T. -0.006 min
Lab File: VY022764.D
Acq: 20 Jun 2025 14:58

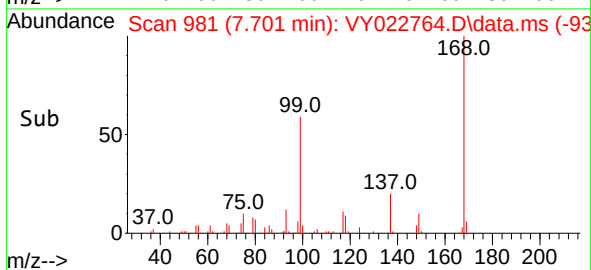
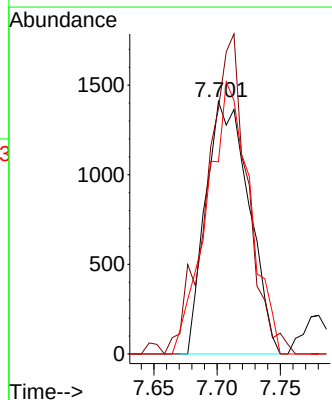
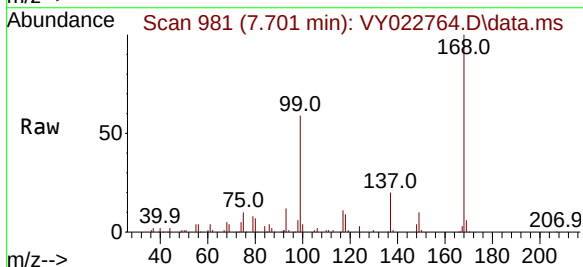
Instrument :
MSVOA_Y
ClientSampleId :
TP-12-VOC

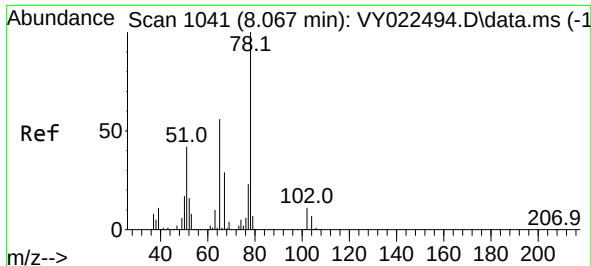
Tgt Ion: 84	Resp: 2915
Ion Ratio	Lower Upper
84 100	
49 79.2	101.9 152.9#
51 32.9	29.8 44.8
86 64.9	51.3 76.9



#31
Cyclohexane
Concen: 1.647 ug/l
RT: 7.701 min Scan# 981
Delta R.T. -0.006 min
Lab File: VY022764.D
Acq: 20 Jun 2025 14:58

Tgt Ion: 56	Resp:	3355	
Ion	Ratio	Lower	Upper
56	100		
69	89.2	27.0	40.6#
84	76.1	72.6	109.0





#33

1,2-Dichloroethane-d4

Concen: 52.854 ug/l

RT: 8.061 min Scan# 1104

Delta R.T. -0.006 min

Lab File: VY022764.D

Acq: 20 Jun 2025 14:58

Instrument :

MSVOA_Y

ClientSampleId :

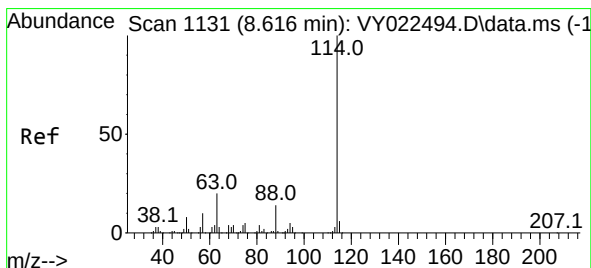
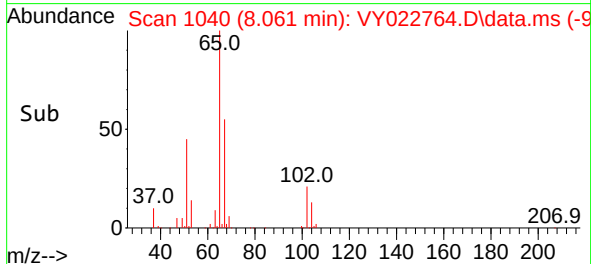
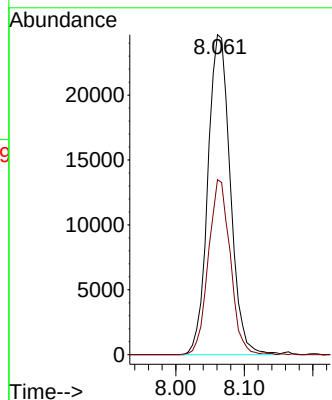
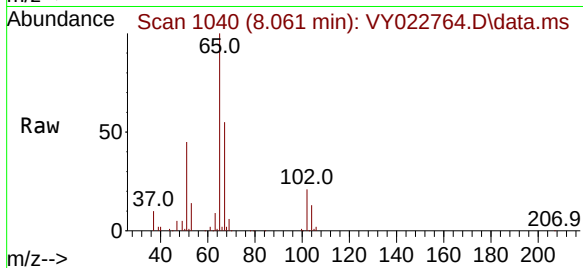
TP-12-VOC

Tgt Ion: 65 Resp: 56029

Ion Ratio Lower Upper

65 100

67 53.3 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: VY022764.D

Acq: 20 Jun 2025 14:58

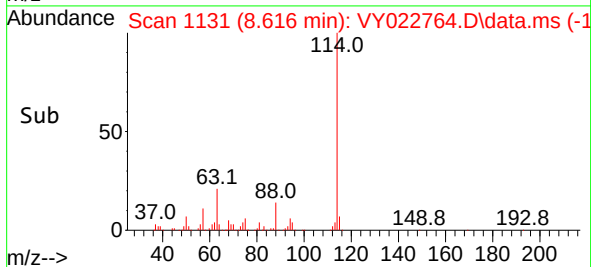
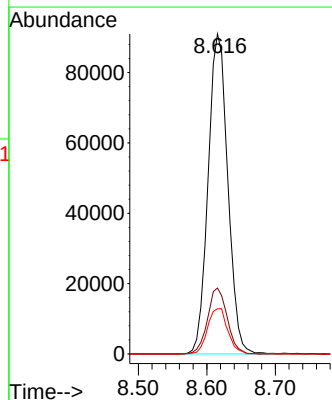
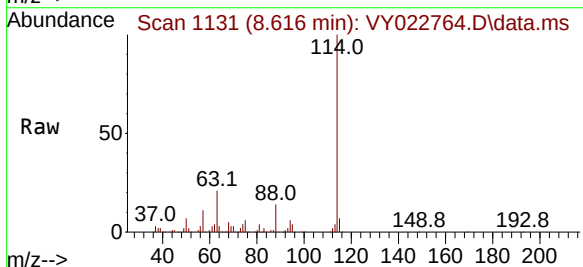
Tgt Ion: 114 Resp: 181687

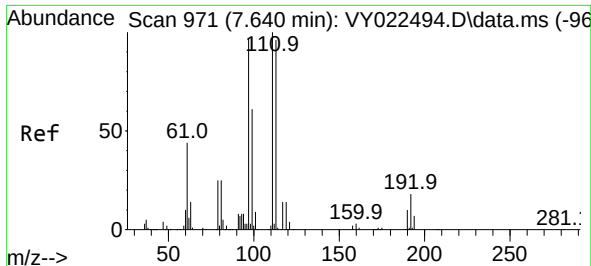
Ion Ratio Lower Upper

114 100

63 20.6 0.0 40.8

88 14.1 0.0 27.8





#35

Dibromofluoromethane

Concen: 52.574 ug/l

RT: 7.634 min Scan# 91

Delta R.T. -0.006 min

Lab File: VY022764.D

Acq: 20 Jun 2025 14:58

Instrument :

MSVOA_Y

ClientSampleId :

TP-12-VOC

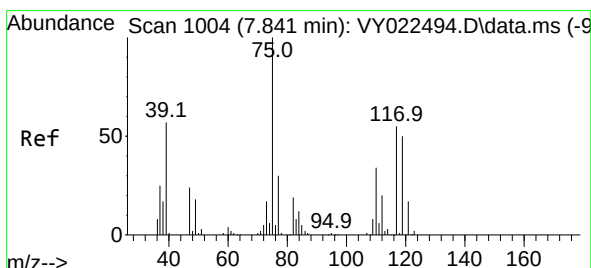
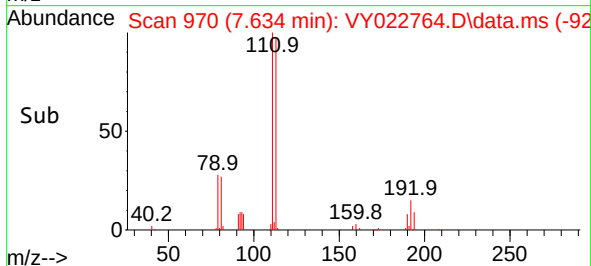
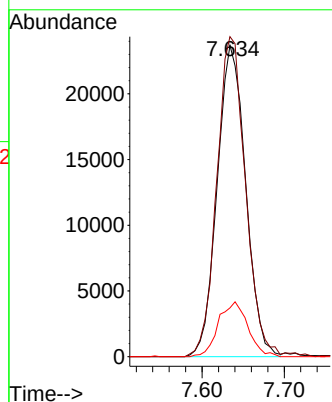
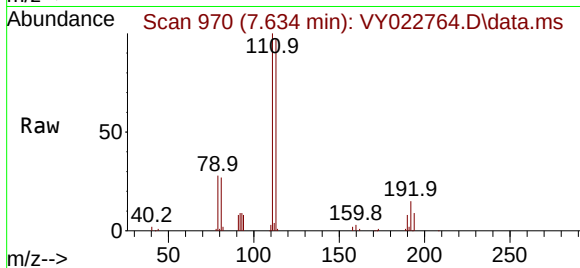
Tgt Ion:113 Resp: 57014

Ion Ratio Lower Upper

113 100

111 103.4 81.1 121.7

192 18.2 14.2 21.2



#36

1,1-Dichloropropene

Concen: 4.964 ug/l

RT: 7.713 min Scan# 983

Delta R.T. -0.128 min

Lab File: VY022764.D

Acq: 20 Jun 2025 14:58

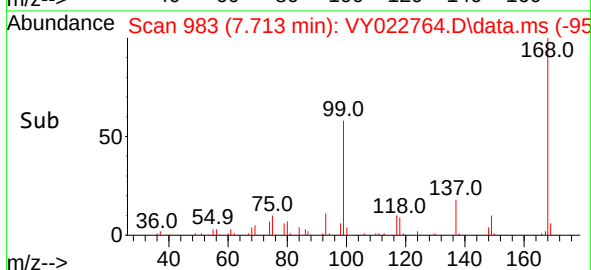
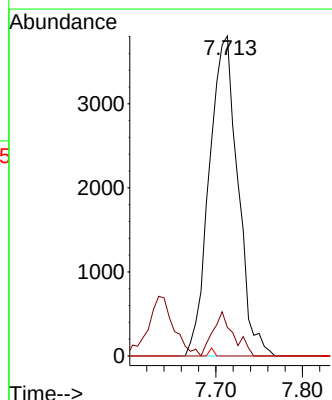
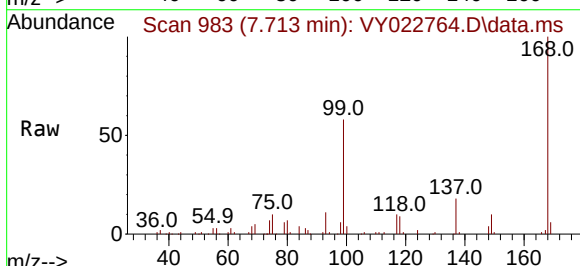
Tgt Ion: 75 Resp: 8737

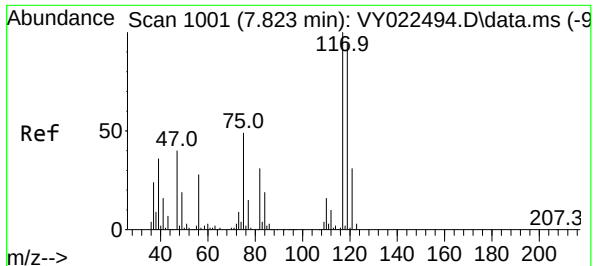
Ion Ratio Lower Upper

75 100

110 10.0 16.9 50.7#

77 0.4 24.8 37.2#

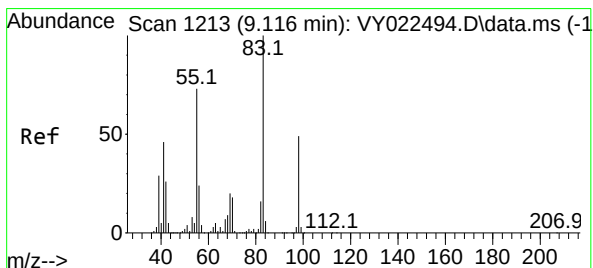
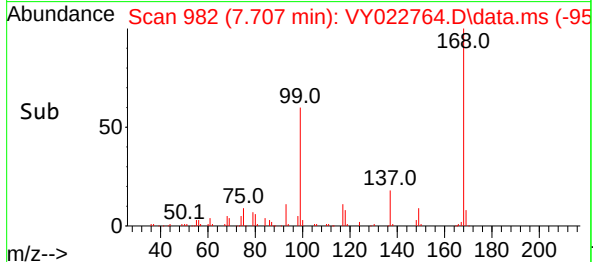
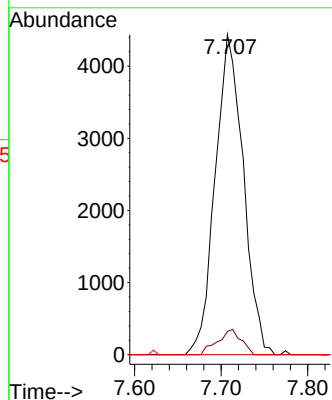
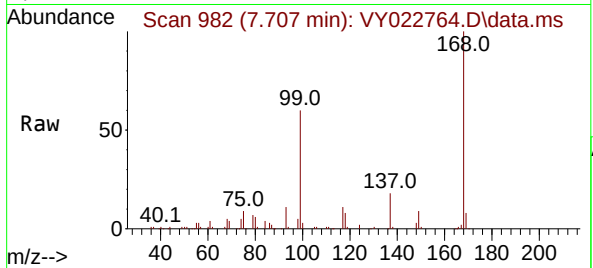




#38
Carbon Tetrachloride
Concen: 5.540 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.116 min
Lab File: VY022764.D
Acq: 20 Jun 2025 14:58

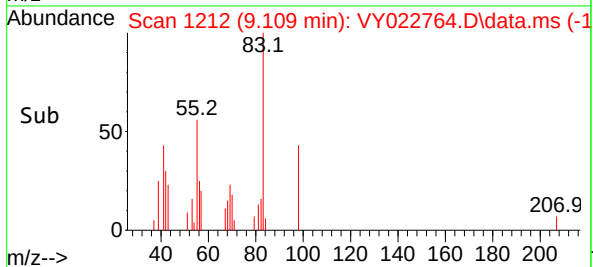
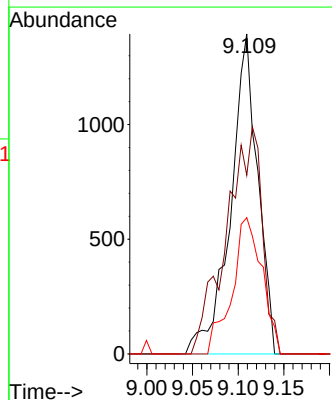
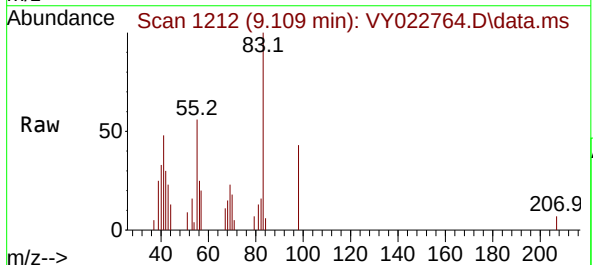
Instrument :
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TP-12-VOC

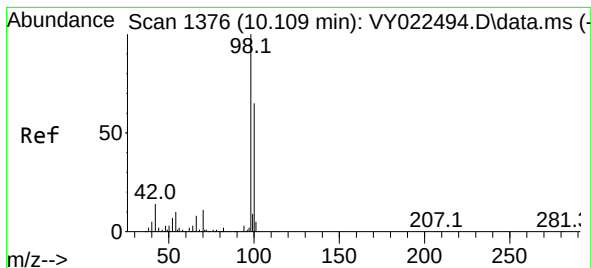
Tgt Ion:117 Resp: 10002
Ion Ratio Lower Upper
117 100
119 7.3 75.0 112.6#
121 0.0 25.0 37.4#



#39
Methylcyclohexane
Concen: 1.220 ug/l
RT: 9.109 min Scan# 1212
Delta R.T. -0.006 min
Lab File: VY022764.D
Acq: 20 Jun 2025 14:58

Tgt Ion: 83 Resp: 2886
Ion Ratio Lower Upper
83 100
55 55.8 58.1 87.1#
98 42.6 39.0 58.6





#50

Toluene-d8

Concen: 50.835 ug/l

RT: 10.109 min Scan# 1

Delta R.T. -0.000 min

Lab File: VY022764.D

Acq: 20 Jun 2025 14:58

Instrument :

MSVOA_Y

ClientSampleId :

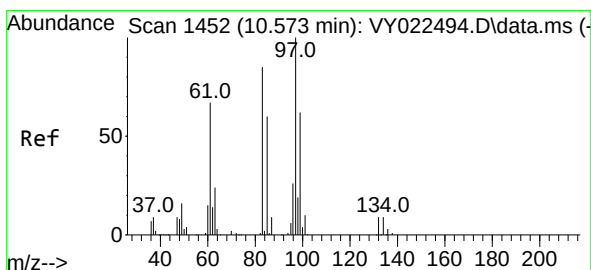
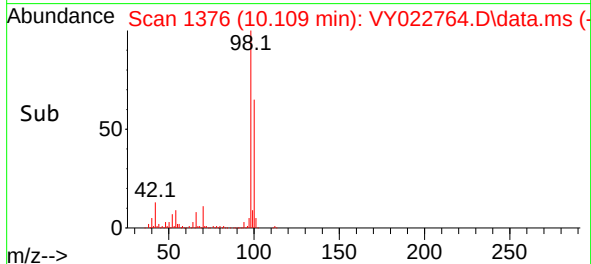
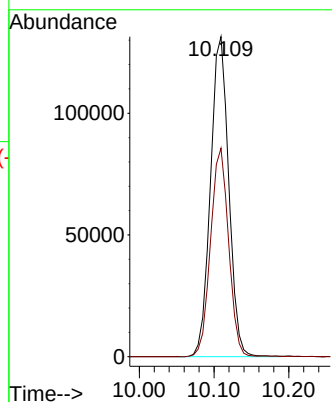
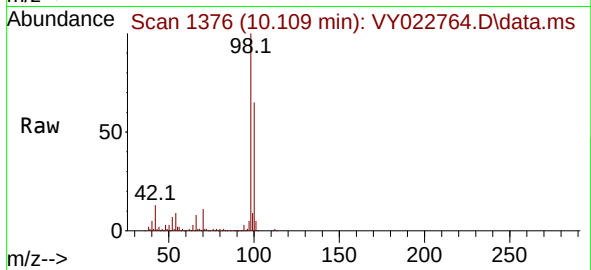
TP-12-VOC

Tgt Ion: 98 Resp: 222752

Ion Ratio Lower Upper

98 100

100 64.3 51.4 77.0



#55

1,1,2-Trichloroethane

Concen: 2.392 ug/l

RT: 10.548 min Scan# 1448

Delta R.T. -0.025 min

Lab File: VY022764.D

Acq: 20 Jun 2025 14:58

Tgt Ion: 97 Resp: 2108

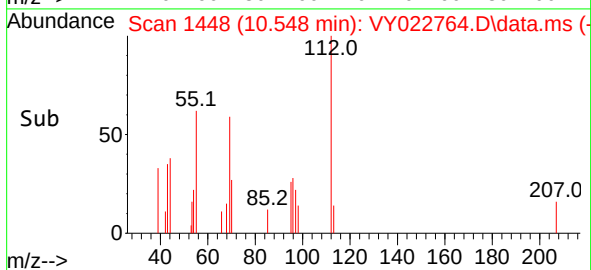
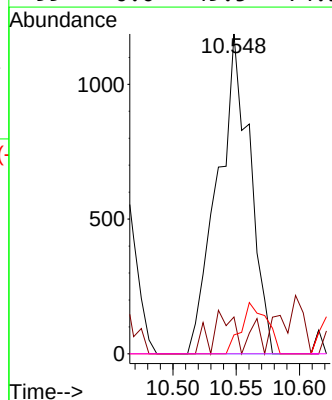
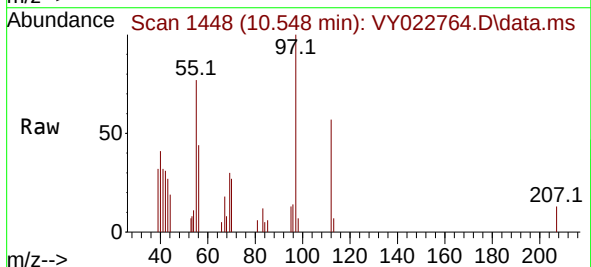
Ion Ratio Lower Upper

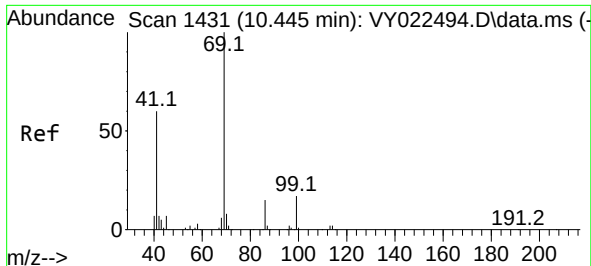
97 100

83 11.5 68.1 102.1#

85 5.9 48.2 72.2#

99 0.0 49.5 74.3#

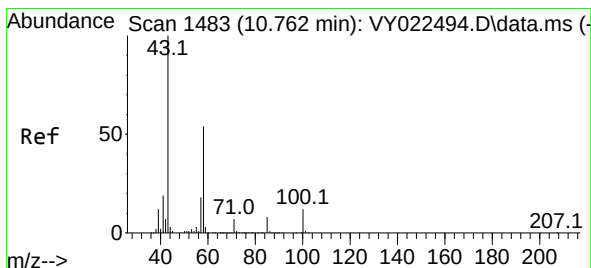
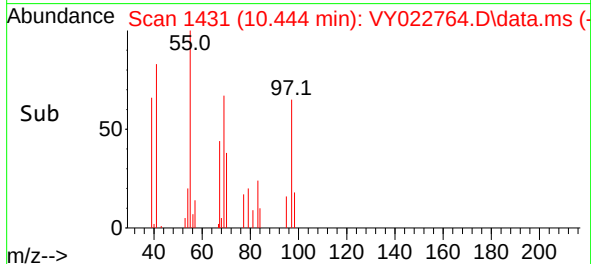
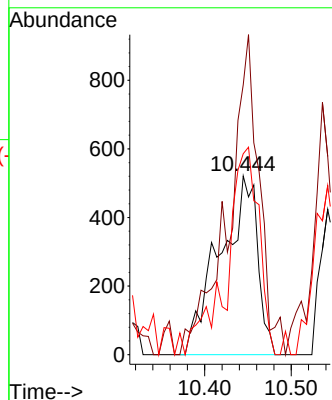
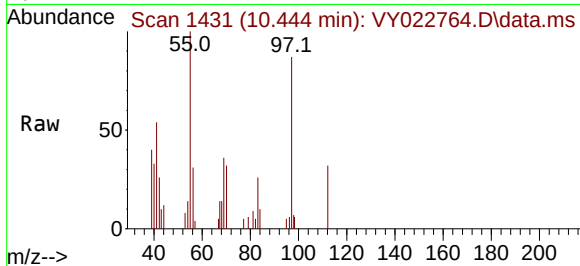




#56
Ethyl methacrylate
Concen: 1.232 ug/l
RT: 10.444 min Scan# 1431
Delta R.T. -0.000 min
Lab File: VY022764.D
Acq: 20 Jun 2025 14:58

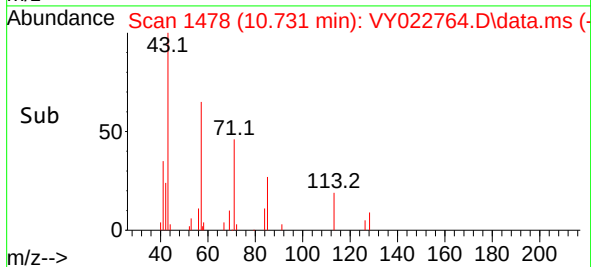
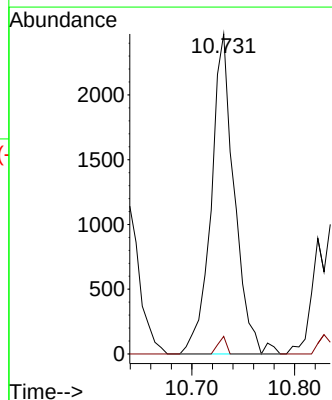
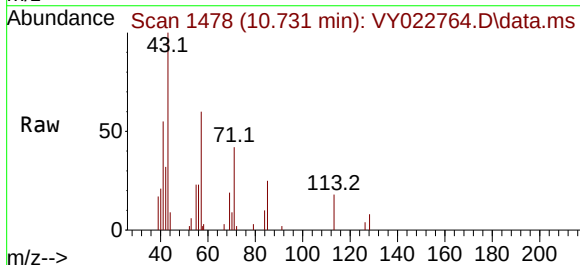
Instrument :
MSVOA_Y
ClientSampleId :
TP-12-VOC

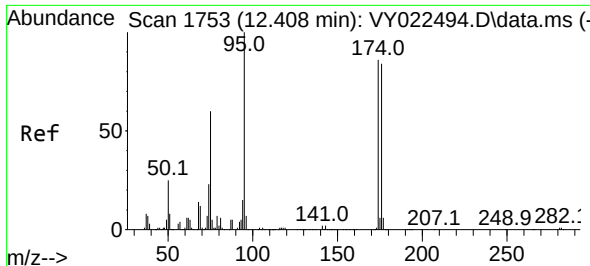
Tgt Ion: 69 Resp: 1569
Ion Ratio Lower Upper
69 100
41 147.5 52.2 78.2#
39 99.2 36.7 55.1#



#59
2-Hexanone
Concen: 6.854 ug/l
RT: 10.731 min Scan# 1478
Delta R.T. -0.031 min
Lab File: VY022764.D
Acq: 20 Jun 2025 14:58

Tgt Ion: 43 Resp: 3874
Ion Ratio Lower Upper
43 100
58 2.0 27.3 81.8#

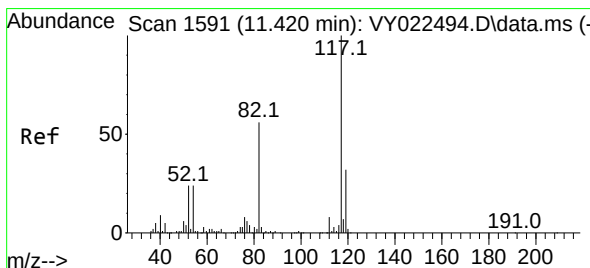
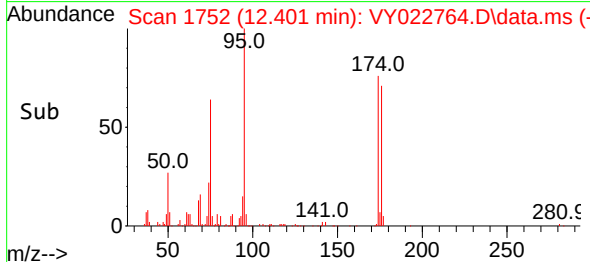
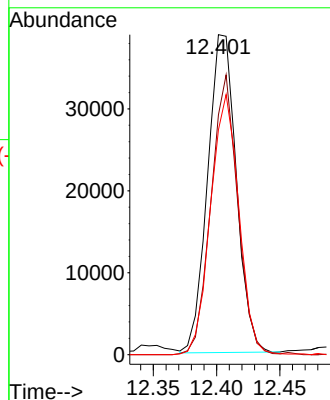
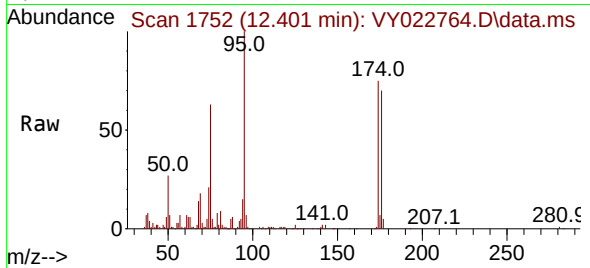




#62
4-Bromofluorobenzene
Concen: 46.939 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022764.D
Acq: 20 Jun 2025 14:58

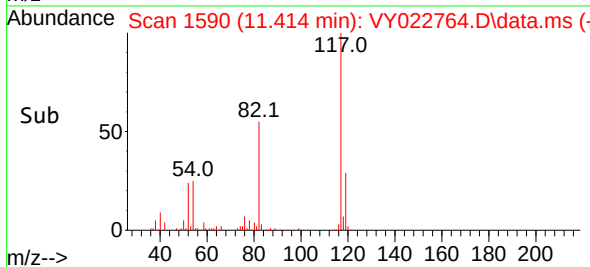
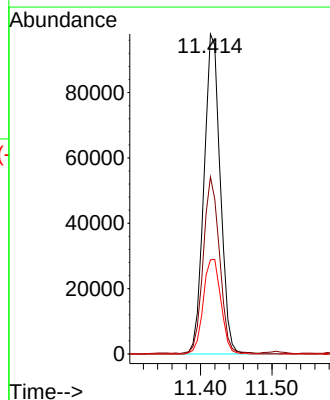
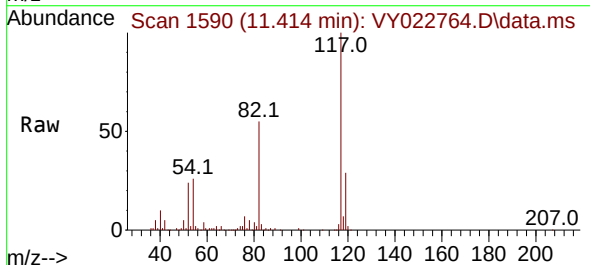
Instrument :
MSVOA_Y
ClientSampleId :
TP-12-VOC

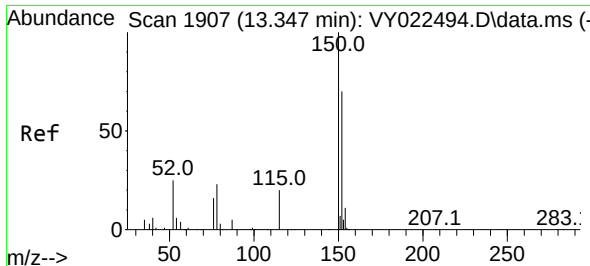
Tgt Ion: 95 Resp: 61282
Ion Ratio Lower Upper
95 100
174 81.9 0.0 170.0
176 80.6 0.0 166.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY022764.D
Acq: 20 Jun 2025 14:58

Tgt Ion: 117 Resp: 155033
Ion Ratio Lower Upper
117 100
82 55.2 44.6 66.8
119 29.4 25.4 38.0

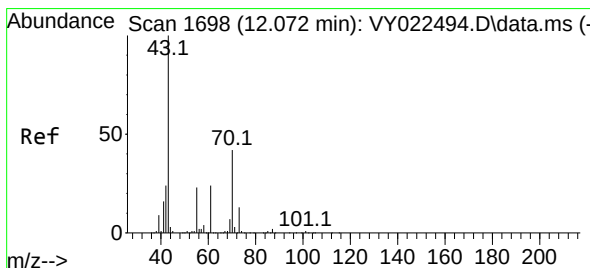
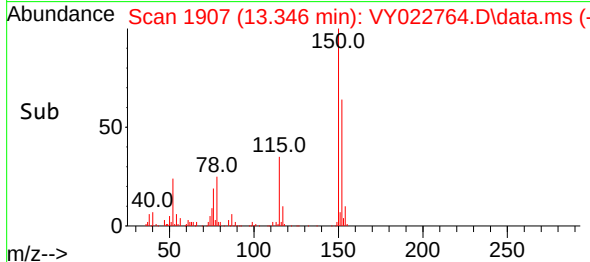
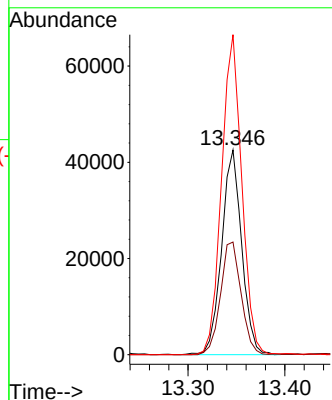
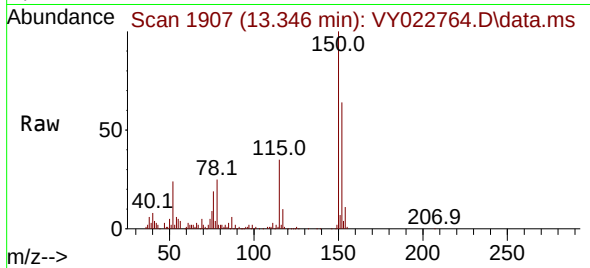




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.346 min Scan# 1907
 Delta R.T. -0.000 min
 Lab File: VY022764.D
 Acq: 20 Jun 2025 14:58

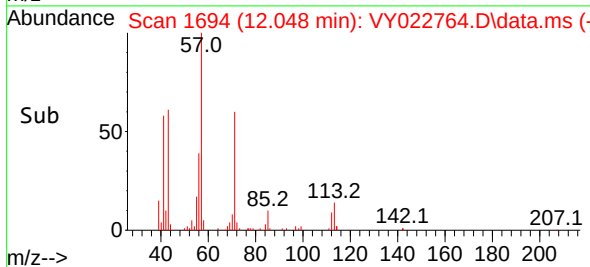
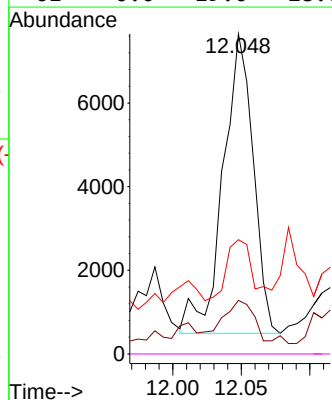
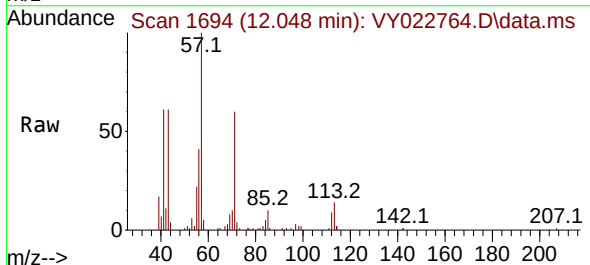
Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-12-VOC

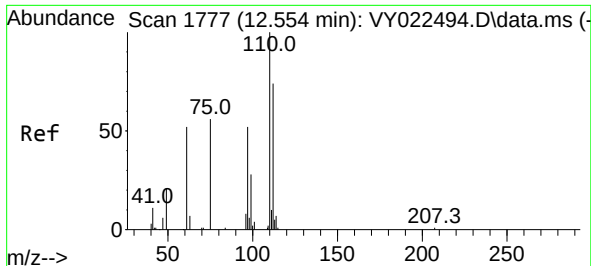
Tgt Ion:152 Resp: 61286
 Ion Ratio Lower Upper
 152 100
 115 56.8 28.9 86.7
 150 158.0 0.0 349.6



#74
 N-ethyl acetate
 Concen: 8.654 ug/l
 RT: 12.048 min Scan# 1694
 Delta R.T. -0.025 min
 Lab File: VY022764.D
 Acq: 20 Jun 2025 14:58

Tgt Ion: 43 Resp: 10987
 Ion Ratio Lower Upper
 43 100
 70 13.0 34.2 51.2#
 55 18.8 18.2 27.4
 61 0.0 19.0 28.6#

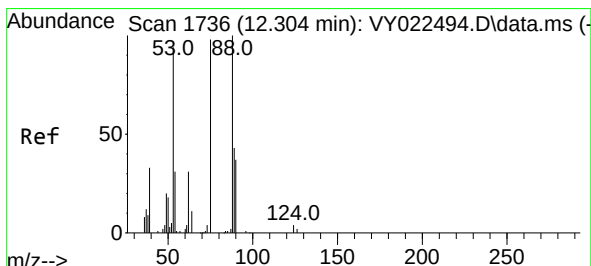
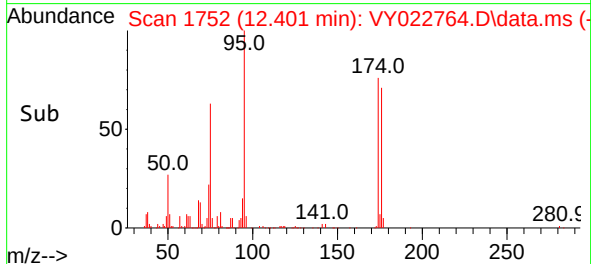
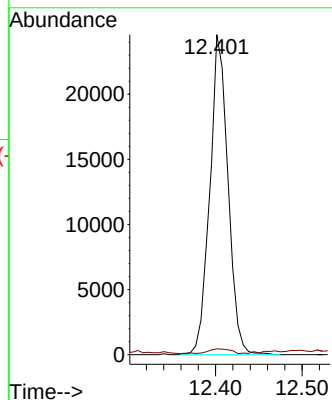
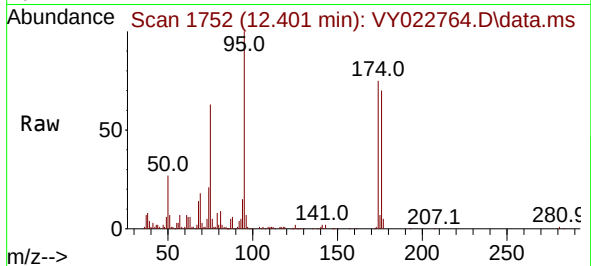




#76
1,2,3-Trichloropropane
Concen: 51.137 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.153 min
Lab File: VY022764.D
Acq: 20 Jun 2025 14:58

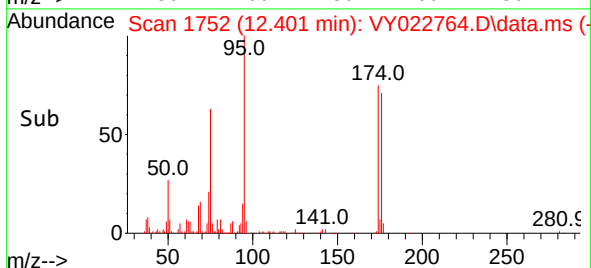
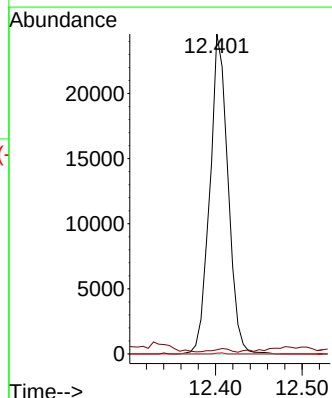
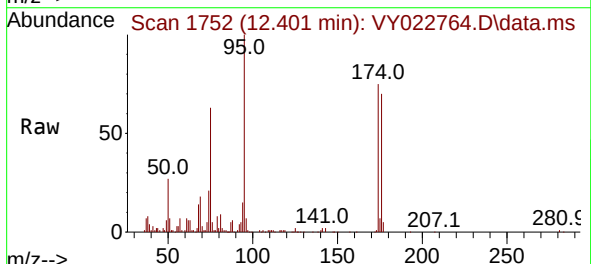
Instrument :
MSVOA_Y
ClientSampleId :
TP-12-VOC

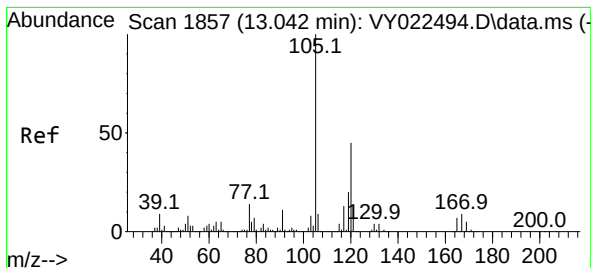
Tgt Ion: 75 Resp: 35854
Ion Ratio Lower Upper
75 100
77 1.8 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 123.493 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.097 min
Lab File: VY022764.D
Acq: 20 Jun 2025 14:58

Tgt Ion: 75 Resp: 35854
Ion Ratio Lower Upper
75 100
53 1.1 78.5 117.7#
89 0.2 35.7 53.5#





#84

1,2,4-Trimethylbenzene

Concen: 6.733 ug/l

RT: 13.176 min Scan# 1879

Delta R.T. 0.134 min

Lab File: VY022764.D

Acq: 20 Jun 2025 14:58

Instrument :

MSVOA_Y

ClientSampleId :

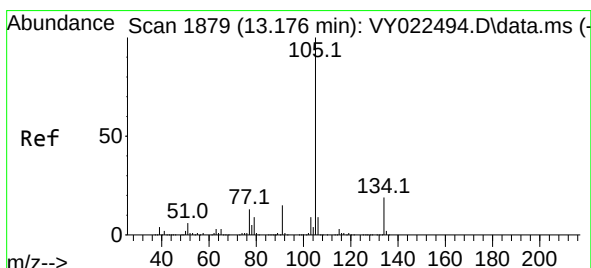
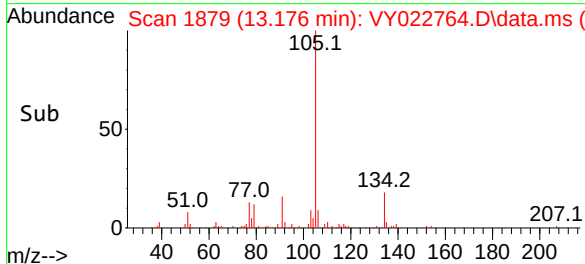
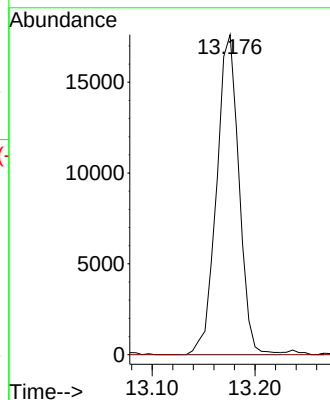
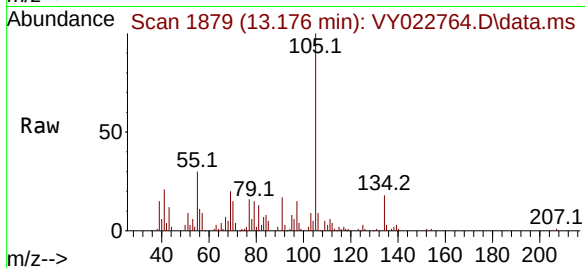
TP-12-VOC

Tgt Ion:105 Resp: 26602

Ion Ratio Lower Upper

105 100

120 0.0 22.7 68.1#



#85

sec-Butylbenzene

Concen: 4.899 ug/l

RT: 13.176 min Scan# 1879

Delta R.T. -0.000 min

Lab File: VY022764.D

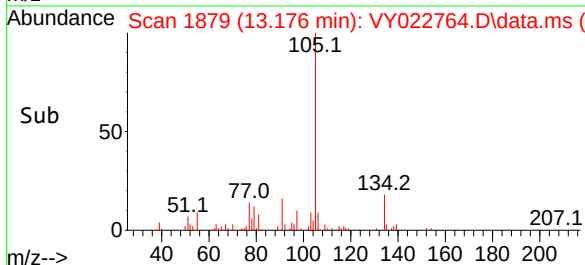
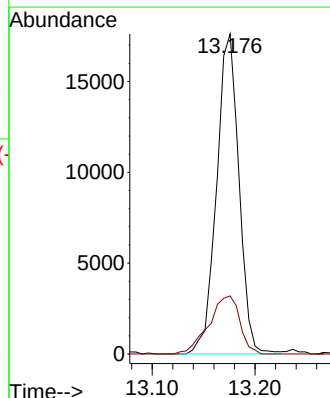
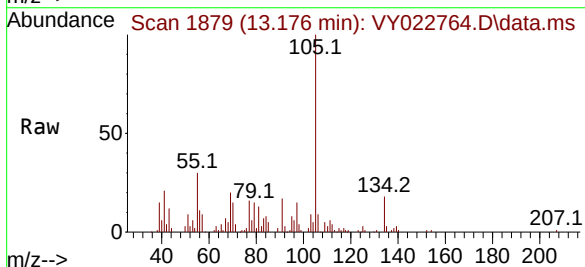
Acq: 20 Jun 2025 14:58

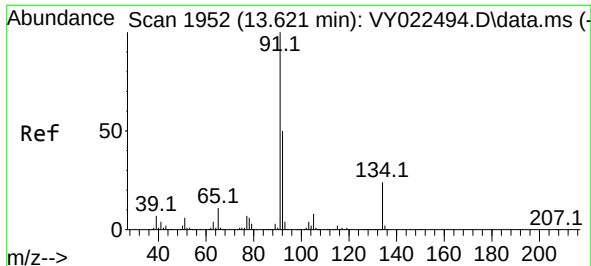
Tgt Ion:105 Resp: 26602

Ion Ratio Lower Upper

105 100

134 25.0 9.7 28.9

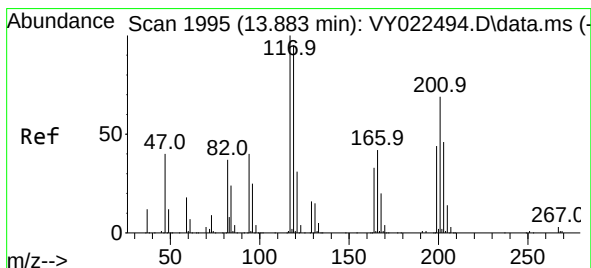
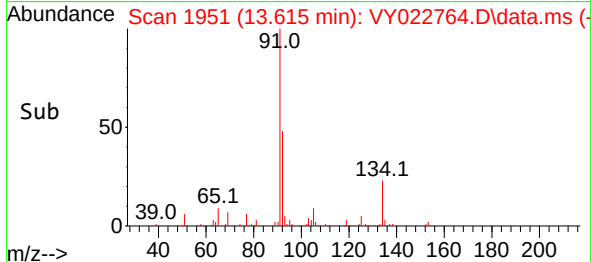
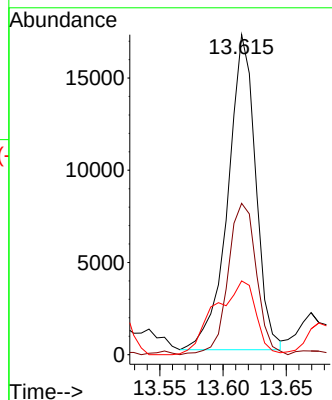
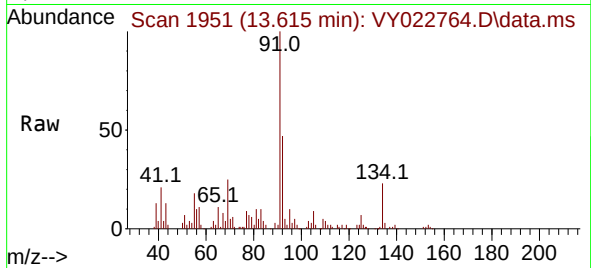




#89
n-Butylbenzene
Concen: 6.158 ug/l
RT: 13.615 min Scan# 1951
Delta R.T. -0.006 min
Lab File: VY022764.D
Acq: 20 Jun 2025 14:58

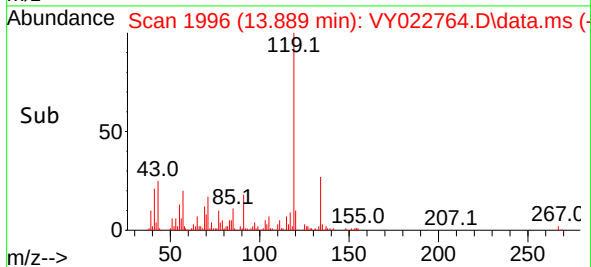
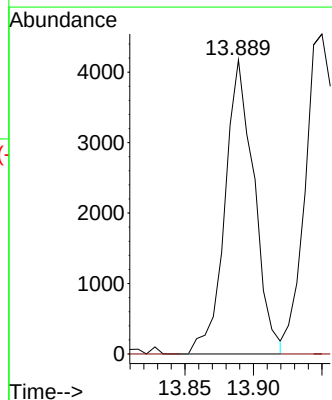
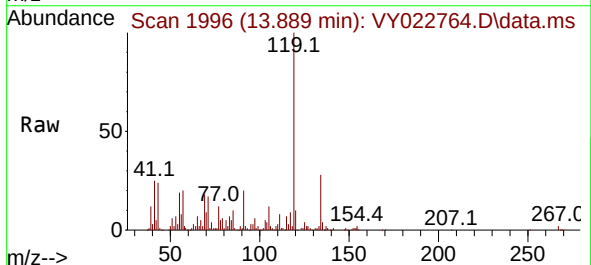
Instrument :
MSVOA_Y
ClientSampleId :
TP-12-VOC

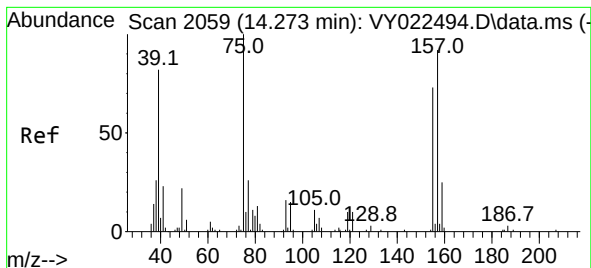
Tgt Ion: 91 Resp: 26148
Ion Ratio Lower Upper
91 100
92 48.9 25.9 77.8
134 34.5 12.0 36.1



#90
Hexachloroethane
Concen: 7.099 ug/l
RT: 13.889 min Scan# 1996
Delta R.T. 0.006 min
Lab File: VY022764.D
Acq: 20 Jun 2025 14:58

Tgt Ion: 117 Resp: 6186
Ion Ratio Lower Upper
117 100
201 0.0 34.0 102.0#

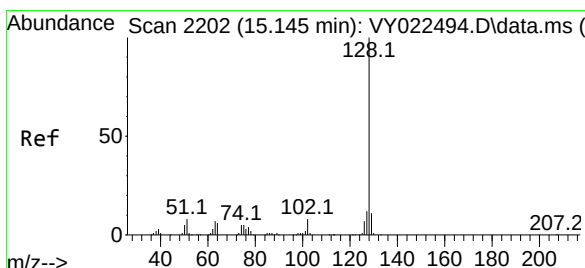
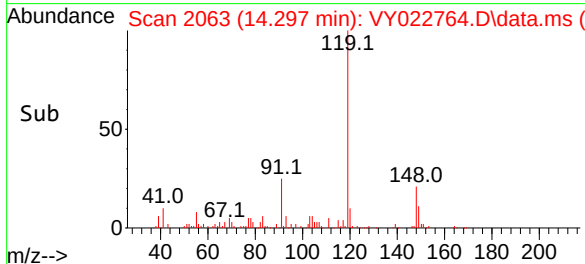
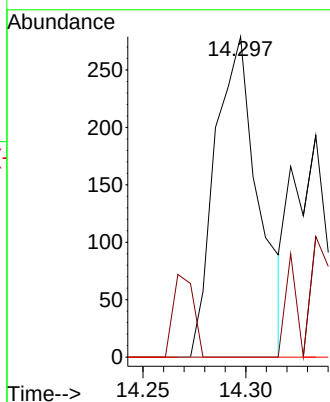
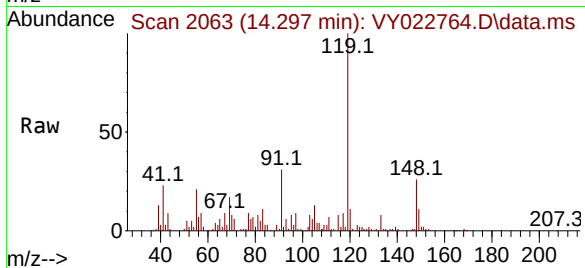




#92
1,2-Dibromo-3-Chloropropane
Concen: 3.410 ug/l
RT: 14.297 min Scan# 2059
Delta R.T. 0.024 min
Lab File: VY022764.D
Acq: 20 Jun 2025 14:58

Instrument :
MSVOA_Y
ClientSampleId :
TP-12-VOC

Tgt Ion: 75 Resp: 410
Ion Ratio Lower Upper
75 100
155 0.0 39.9 119.6#
157 0.0 54.0 162.0#



#95
Naphthalene
Concen: 1.982 ug/l
RT: 15.114 min Scan# 2197
Delta R.T. -0.031 min
Lab File: VY022764.D
Acq: 20 Jun 2025 14:58

Tgt Ion: 128 Resp: 3789
Ion Ratio Lower Upper
128 100
127 73.0 10.4 15.6#
129 73.4 8.9 13.3#

