

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD092222\
 Data File : VD074402.D
 Acq On : 22 Sep 2022 13:36
 Operator : VA/SY
 Sample : VIBLK
 Misc : 5.00G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VIBLK

Quant Time: Sep 23 08:09:43 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D092222S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 23 08:08:51 2022
 Response via : Initial Calibration

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

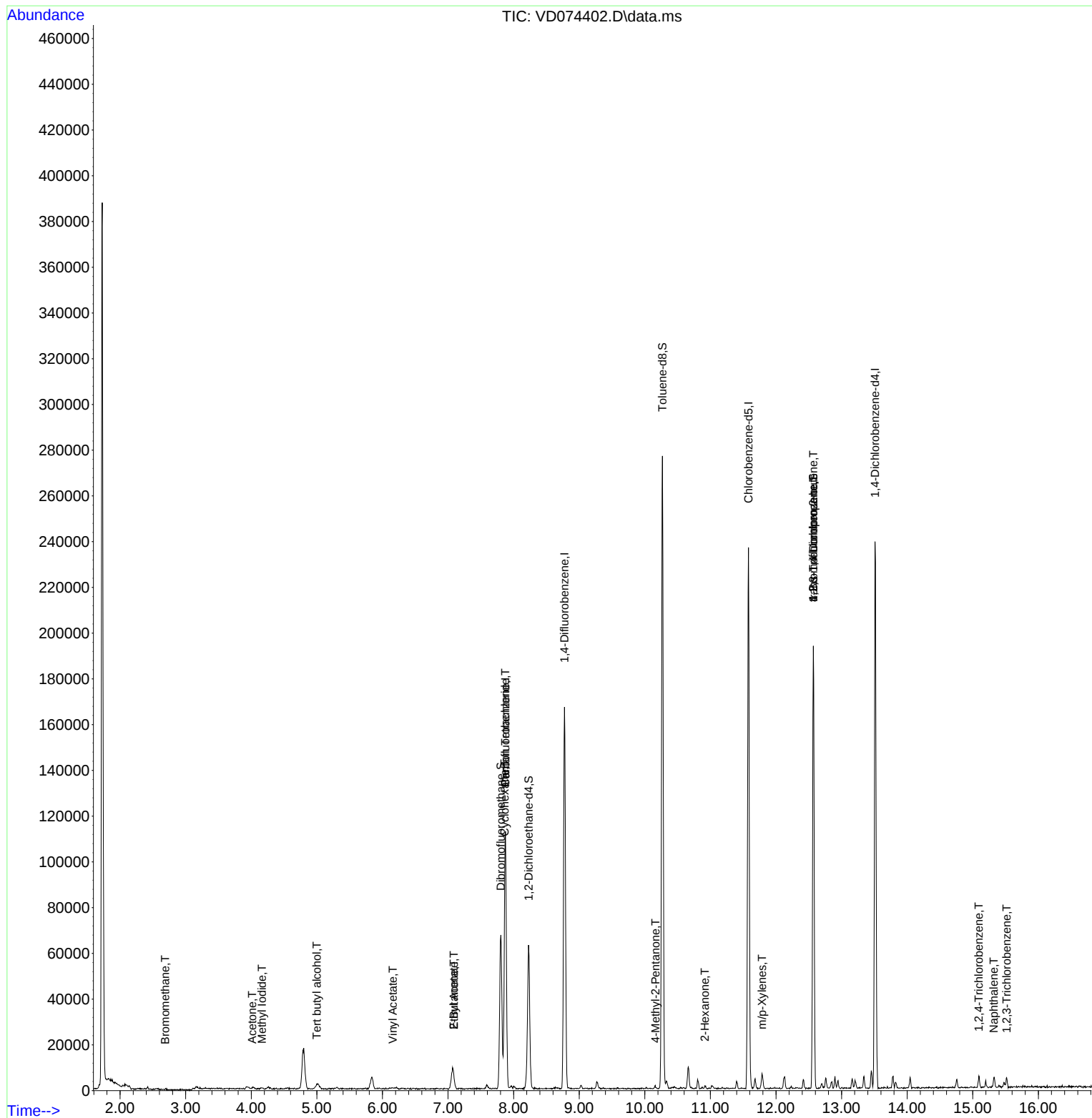
Internal Standards						
1) Pentafluorobenzene	7.875	168	84738	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.775	114	152751	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	135689	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.510	152	65012	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.228	65	47427	52.827	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 105.660%	
35) Dibromofluoromethane	7.805	113	48893	46.198	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 92.400%	
50) Toluene-d8	10.269	98	192113	51.748	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 103.500%	
62) 4-Bromofluorobenzene	12.569	95	59160	45.721	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 91.440%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.140	50	1091	Below Cal	#	83
5) Bromomethane	2.687	94	330	6.097	ug/l #	3
10) Methyl Iodide	4.164	142	354	8.126	ug/l #	59
11) Tert butyl alcohol	4.999	59	1054	4.786	ug/l #	74
16) Acetone	4.017	43	601	3.266	ug/l #	85
18) Methyl Acetate	4.552	43	68	Below Cal	#	51
20) Methylene Chloride	4.787	84	6900	Below Cal		98
23) Vinyl Acetate	6.158	43	681	6.418	ug/l #	71
25) 2-Butanone	7.087	43	1836	6.170	ug/l #	48
31) Cyclohexane	7.863	56	2882	1.689	ug/l #	49
37) Ethyl Acetate	7.087	43	1836	2.818	ug/l #	28
38) Carbon Tetrachloride	7.875	117	8426	6.556	ug/l #	14
51) 4-Methyl-2-Pentanone	10.163	43	1105	1.656	ug/l #	75
59) 2-Hexanone	10.916	43	1141	2.524	ug/l	78
68) m/p-Xylenes	11.787	106	2471	1.229	ug/l	95
76) 1,2,3-Trichloropropane	12.569	75	31680	49.044	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.569	75	31680	120.946	ug/l #	100
93) 1,2,4-Trichlorobenzene	15.093	180	1652	1.281	ug/l	89
95) Naphthalene	15.322	128	4811	1.958	ug/l #	93
96) 1,2,3-Trichlorobenzene	15.516	180	1709	1.523	ug/l	95

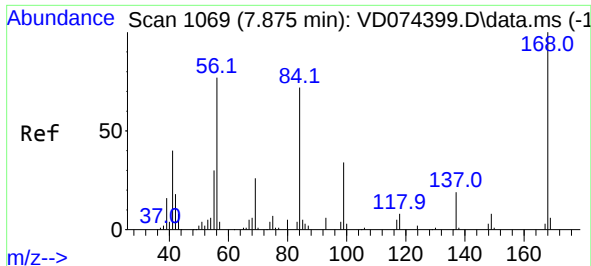
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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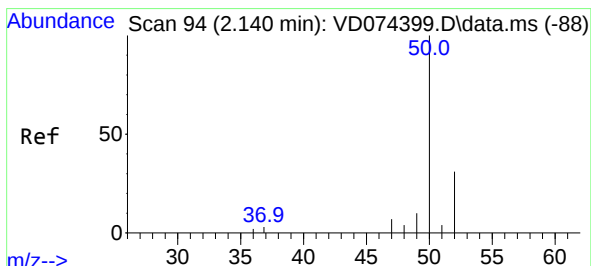
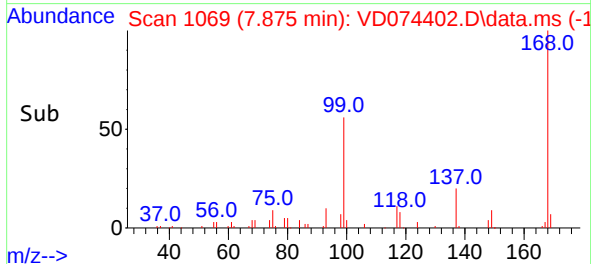
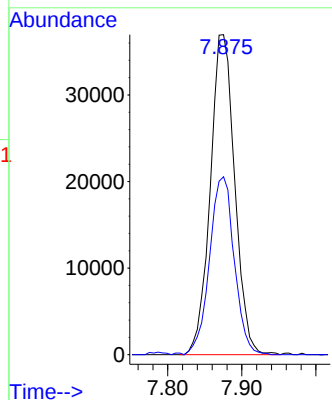
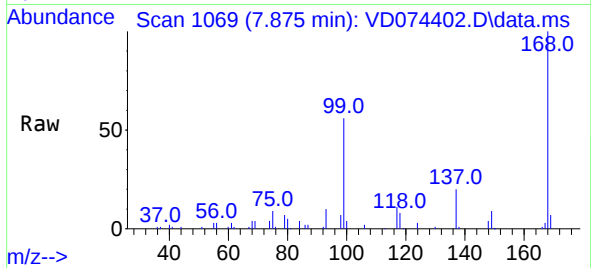




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. 0.000 min
Lab File: VD074402.D
Acq: 22 Sep 2022 13:36

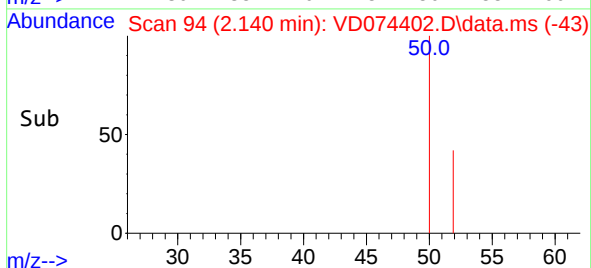
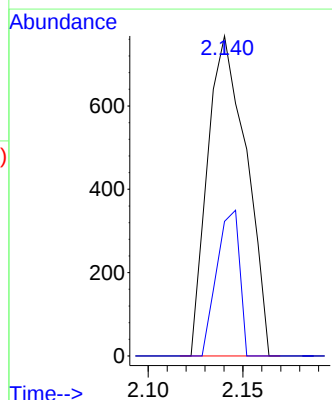
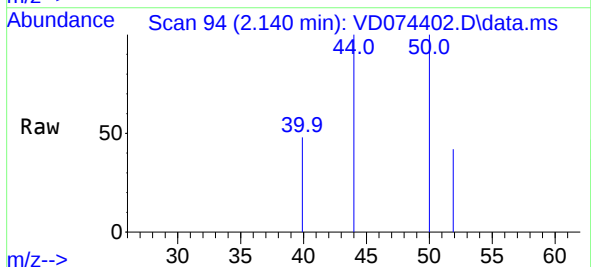
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

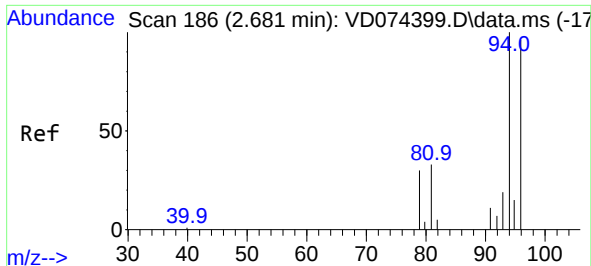
Tgt Ion:168 Resp: 84738
Ion Ratio Lower Upper
168 100
99 55.6 43.0 64.6



#3
Chloromethane
Concen: Below Cal
RT: 2.140 min Scan# 94
Delta R.T. 0.000 min
Lab File: VD074402.D
Acq: 22 Sep 2022 13:36

Tgt Ion: 50 Resp: 1091
Ion Ratio Lower Upper
50 100
52 42.1 25.8 38.8#





#5

Bromomethane

Concen: 6.097 ug/l

RT: 2.687 min Scan# 11

Delta R.T. 0.006 min

Lab File: VD074402.D

Acq: 22 Sep 2022 13:36

Instrument :

MSVOA_D

ClientSampleId :

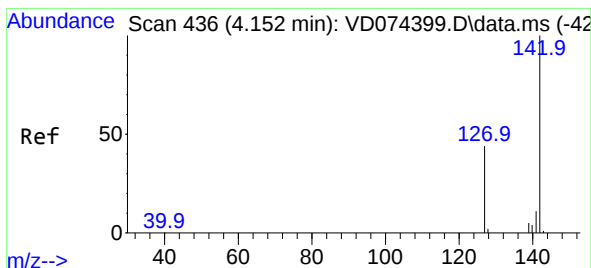
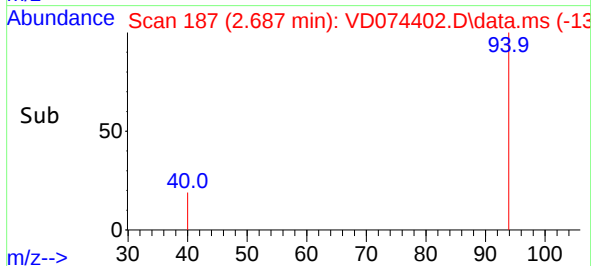
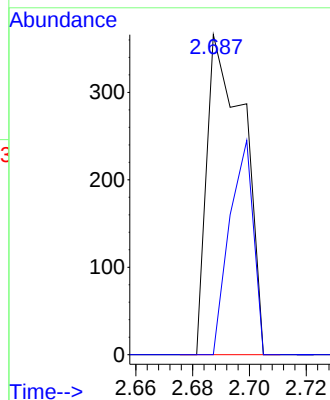
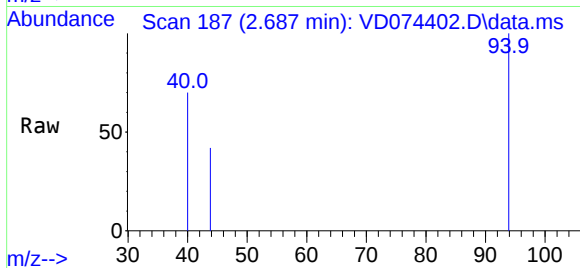
VIBLK

Tgt Ion: 94 Resp: 330

Ion Ratio Lower Upper

94 100

96 0.0 74.6 112.0#



#10

Methyl Iodide

Concen: 8.126 ug/l

RT: 4.164 min Scan# 438

Delta R.T. 0.012 min

Lab File: VD074402.D

Acq: 22 Sep 2022 13:36

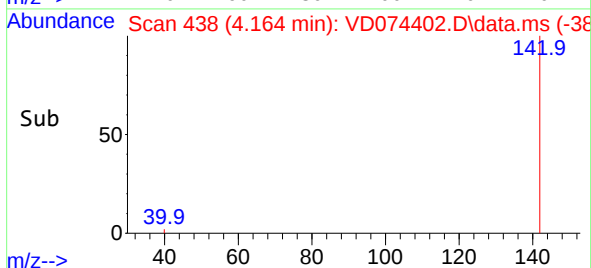
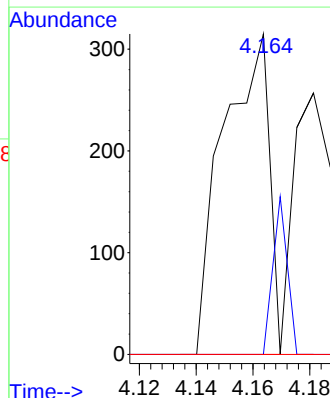
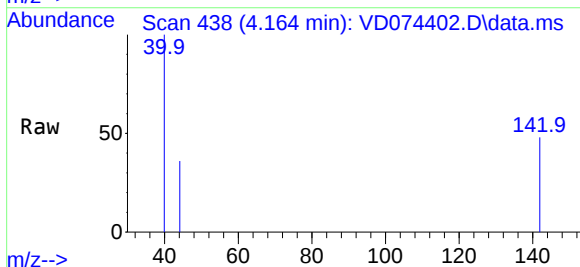
Tgt Ion: 142 Resp: 354

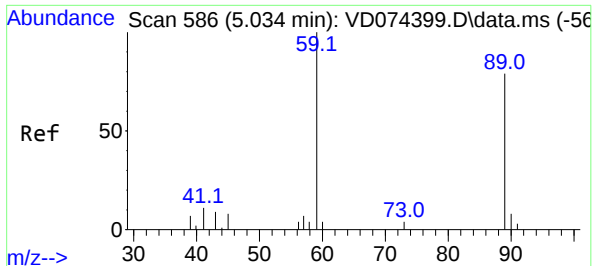
Ion Ratio Lower Upper

142 100

127 15.5 34.6 51.8#

141 0.0 11.7 17.5#

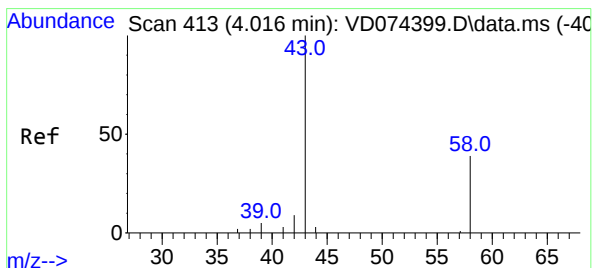
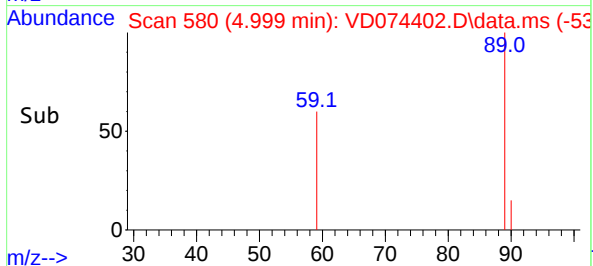
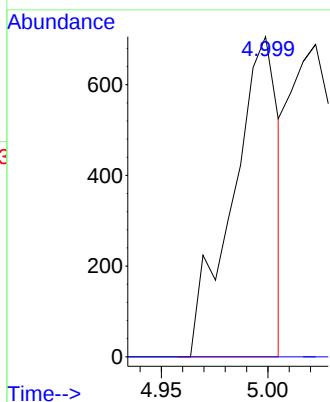
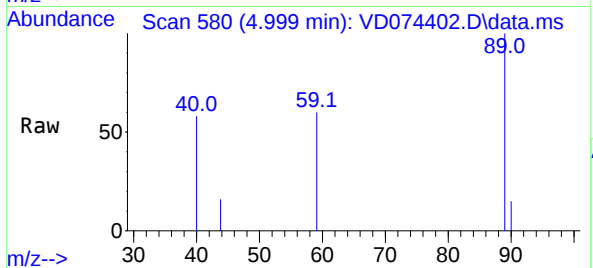




#11
Tert butyl alcohol
Concen: 4.786 ug/l
RT: 4.999 min Scan# 580
Delta R.T. -0.035 min
Lab File: VD074402.D
Acq: 22 Sep 2022 13:36

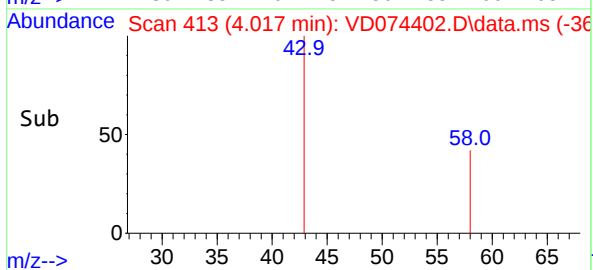
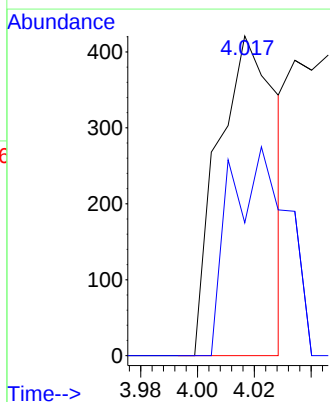
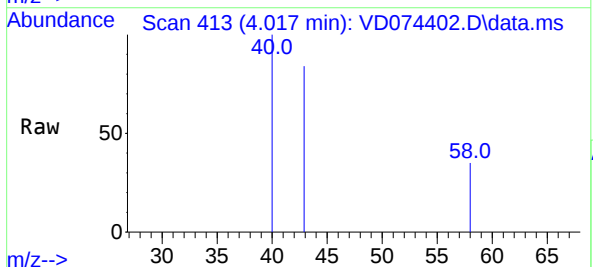
Instrument :
MSVOA_D
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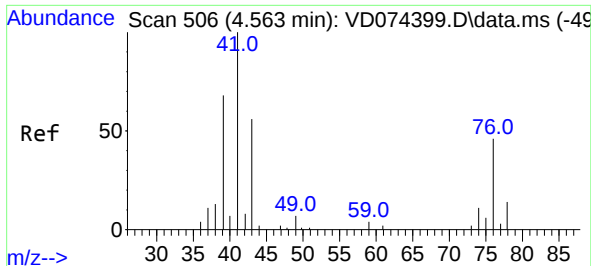
Tgt Ion: 59 Resp: 1054
Ion Ratio Lower Upper
59 100
57 0.0 7.7 11.5#



#16
Acetone
Concen: 3.266 ug/l
RT: 4.017 min Scan# 413
Delta R.T. 0.001 min
Lab File: VD074402.D
Acq: 22 Sep 2022 13:36

Tgt Ion: 43 Resp: 601
Ion Ratio Lower Upper
43 100
58 41.6 26.4 39.6#

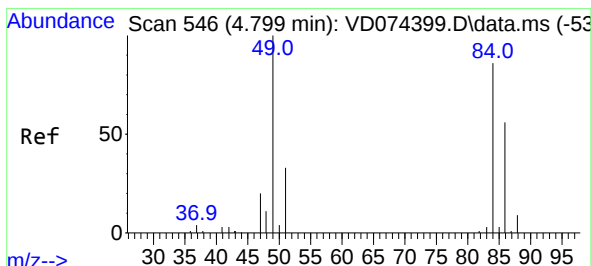
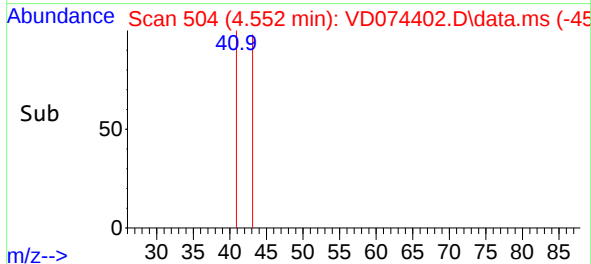
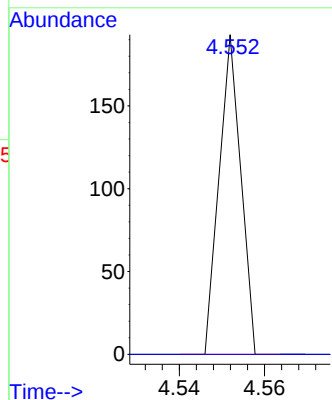
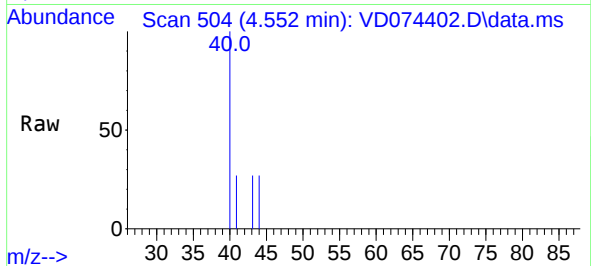




#18
Methyl Acetate
Concen: Below Cal
RT: 4.552 min Scan# 50
Delta R.T. -0.011 min
Lab File: VD074402.D
Acq: 22 Sep 2022 13:36

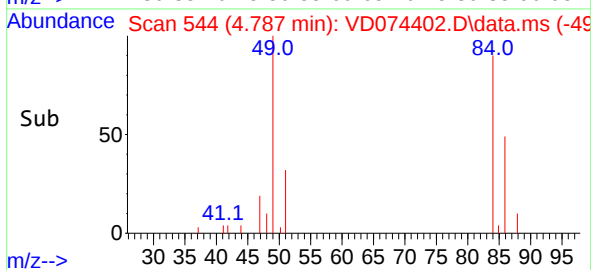
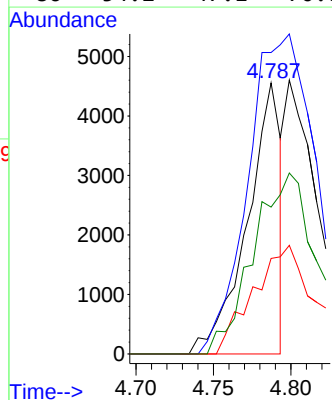
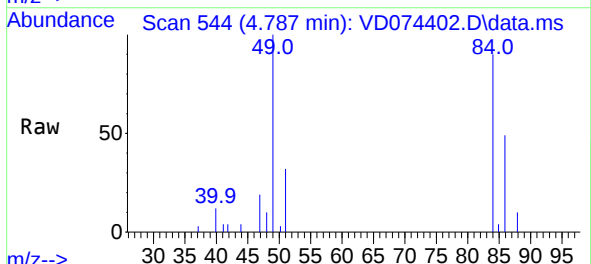
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

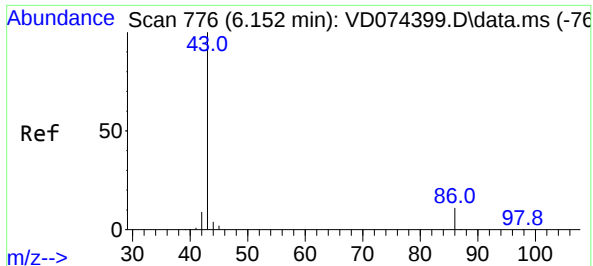
Tgt Ion: 43 Resp: 68
Ion Ratio Lower Upper
43 100
74 0.0 19.3 28.9#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.787 min Scan# 544
Delta R.T. -0.012 min
Lab File: VD074402.D
Acq: 22 Sep 2022 13:36

Tgt Ion: 84 Resp: 6900
Ion Ratio Lower Upper
84 100
49 111.2 88.4 132.6
51 35.2 28.0 42.0
86 54.2 47.1 70.7

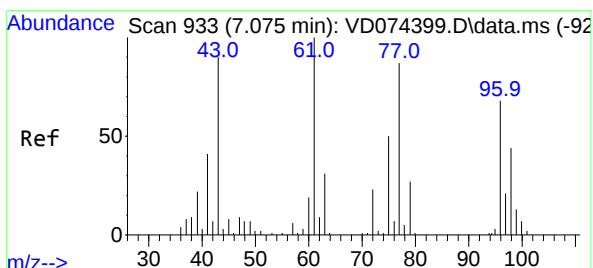
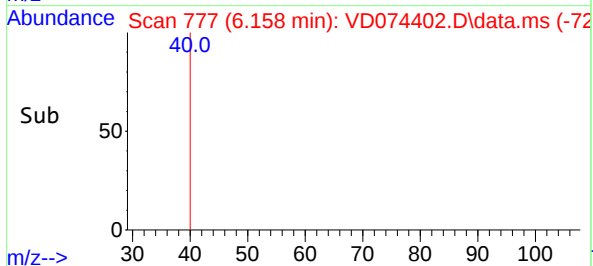
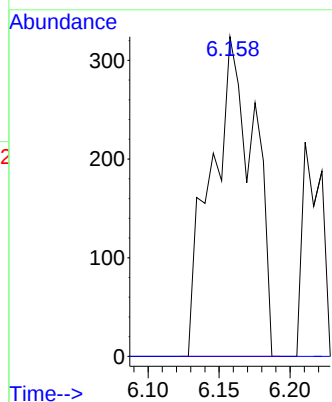
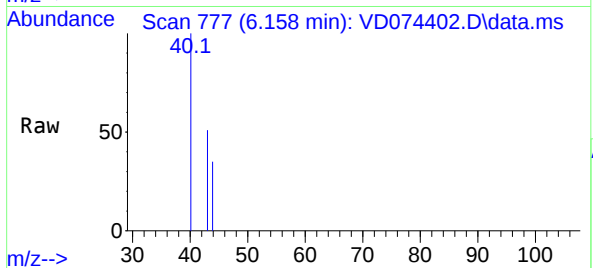




#23
 Vinyl Acetate
 Concen: 6.418 ug/l
 RT: 6.158 min Scan# 776
 Delta R.T. 0.006 min
 Lab File: VD074402.D
 Acq: 22 Sep 2022 13:36

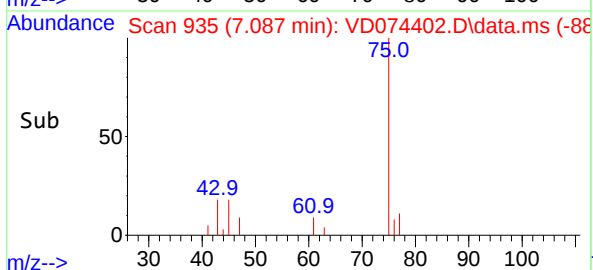
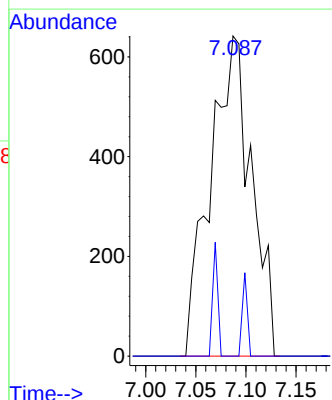
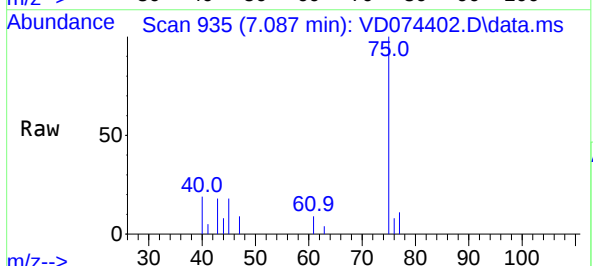
Instrument :
 MSVOA_D
 ClientSampleId :
 VIBLK

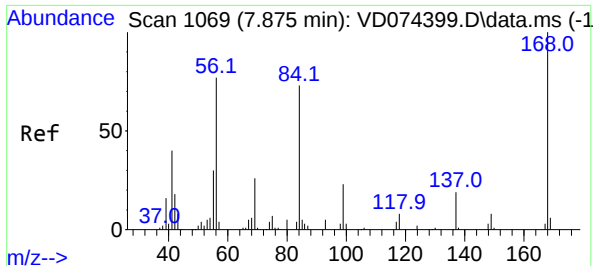
Tgt Ion: 43 Resp: 681
 Ion Ratio Lower Upper
 43 100
 86 0.0 8.6 13.0#



#25
 2-Butanone
 Concen: 6.170 ug/l
 RT: 7.087 min Scan# 935
 Delta R.T. 0.012 min
 Lab File: VD074402.D
 Acq: 22 Sep 2022 13:36

Tgt Ion: 43 Resp: 1836
 Ion Ratio Lower Upper
 43 100
 72 0.0 21.8 32.6#

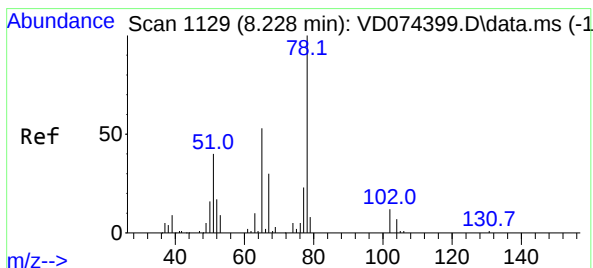
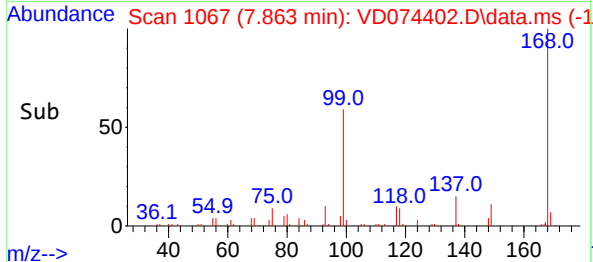
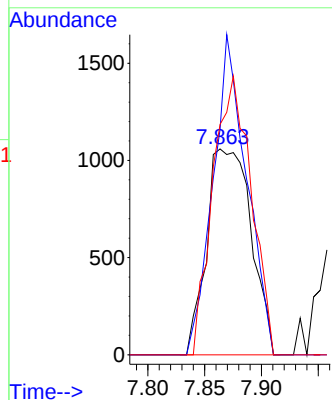
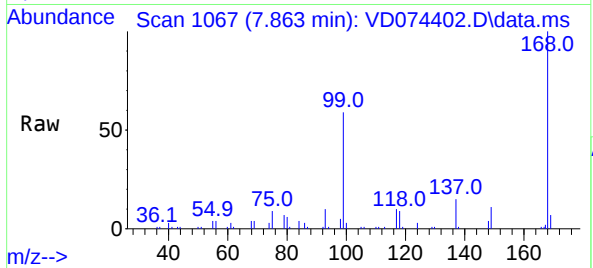




#31
Cyclohexane
Concen: 1.689 ug/l
RT: 7.863 min Scan# 1069
Delta R.T. -0.012 min
Lab File: VD074402.D
Acq: 22 Sep 2022 13:36

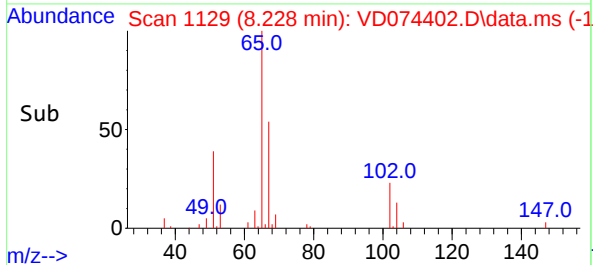
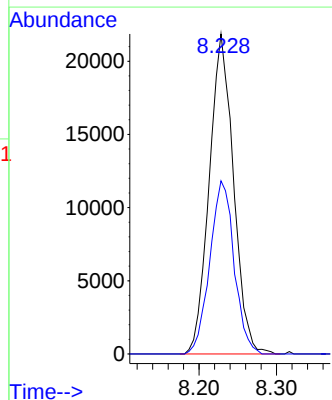
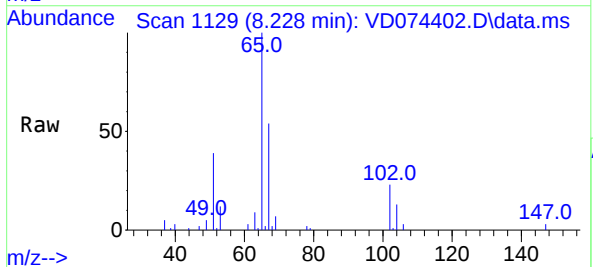
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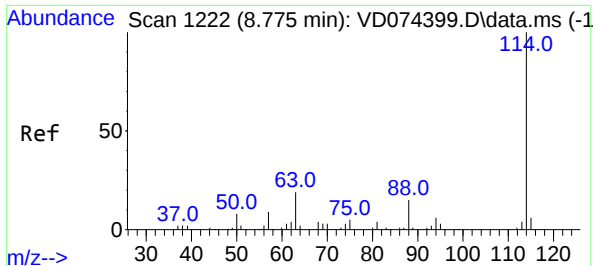
Tgt Ion: 56 Resp: 2882
Ion Ratio Lower Upper
56 100
69 109.4 25.7 38.5#
84 111.9 73.9 110.9#



#33
1,2-Dichloroethane-d4
Concen: 52.827 ug/l
RT: 8.228 min Scan# 1129
Delta R.T. 0.000 min
Lab File: VD074402.D
Acq: 22 Sep 2022 13:36

Tgt Ion: 65 Resp: 47427
Ion Ratio Lower Upper
65 100
67 54.2 0.0 110.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.775 min Scan# 1

Delta R.T. 0.000 min

Lab File: VD074402.D

Acq: 22 Sep 2022 13:36

Instrument :

MSVOA_D

ClientSampleId :

VIBLK

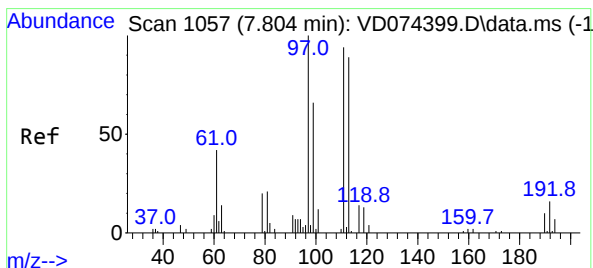
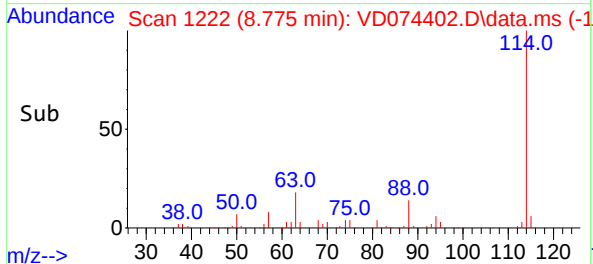
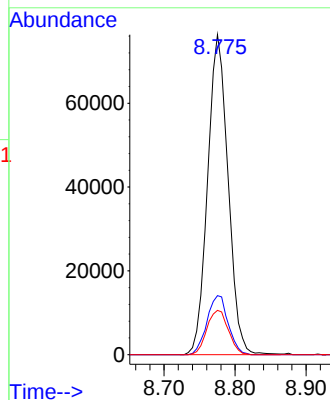
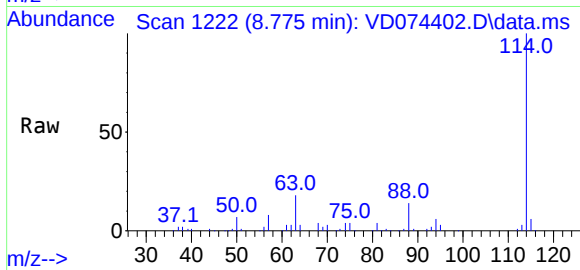
Tgt Ion:114 Resp: 152751

Ion Ratio Lower Upper

114 100

63 18.4 0.0 37.6

88 13.9 0.0 28.4



#35

Dibromofluoromethane

Concen: 46.198 ug/l

RT: 7.805 min Scan# 1057

Delta R.T. 0.001 min

Lab File: VD074402.D

Acq: 22 Sep 2022 13:36

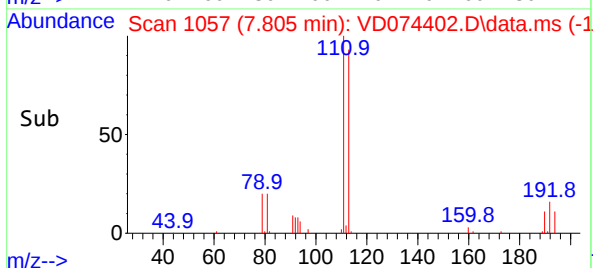
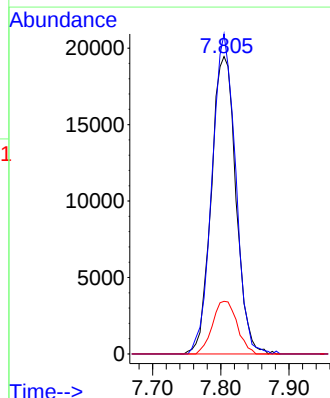
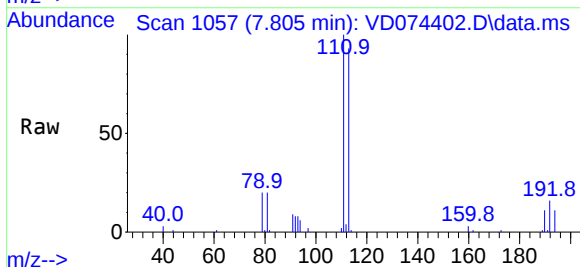
Tgt Ion:113 Resp: 48893

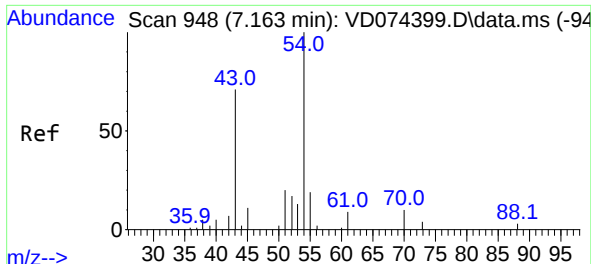
Ion Ratio Lower Upper

113 100

111 102.9 83.0 124.6

192 17.7 16.2 24.2





#37

Ethyl Acetate

Concen: 2.818 ug/l

RT: 7.087 min Scan# 91

Delta R.T. -0.076 min

Lab File: VD074402.D

Acq: 22 Sep 2022 13:36

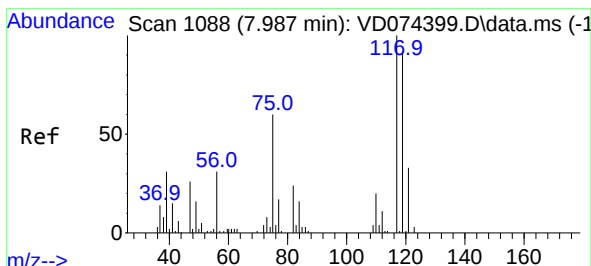
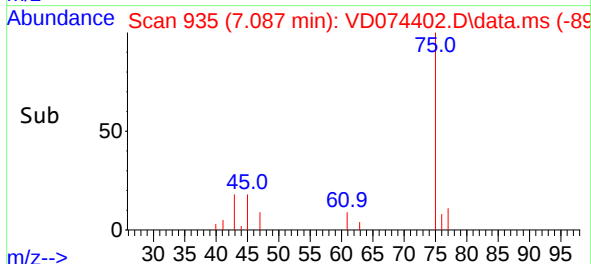
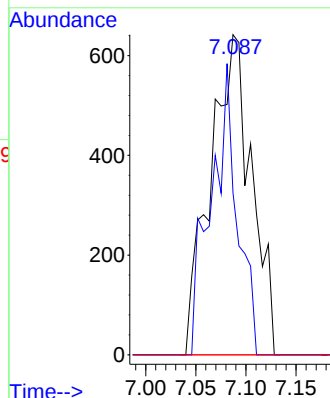
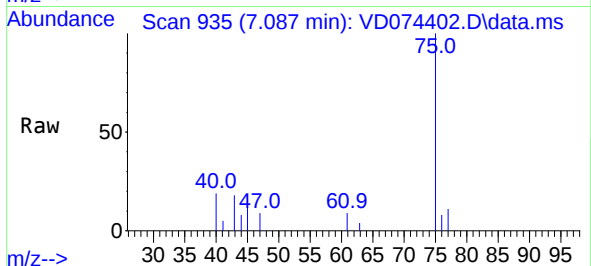
Instrument :

MSVOA_D

ClientSampleId :

VIBLK

Tgt Ion: 43	Resp:	1836
Ion	Ratio	Lower Upper
43	100	
61	57.9	12.1 18.1#
70	0.0	8.5 12.7#



#38

Carbon Tetrachloride

Concen: 6.556 ug/l

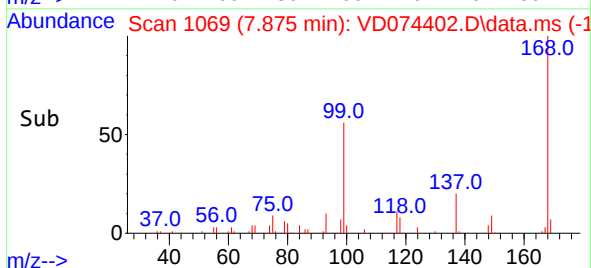
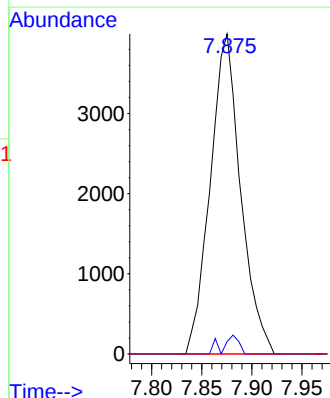
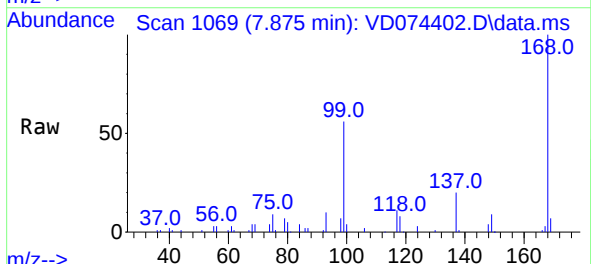
RT: 7.875 min Scan# 1069

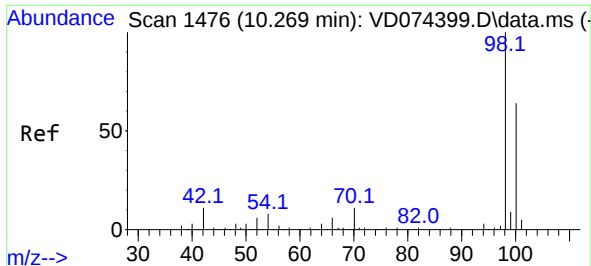
Delta R.T. -0.112 min

Lab File: VD074402.D

Acq: 22 Sep 2022 13:36

Tgt Ion: 117	Resp:	8426
Ion	Ratio	Lower Upper
117	100	
119	3.9	78.8 118.2#
121	0.0	23.9 35.9#

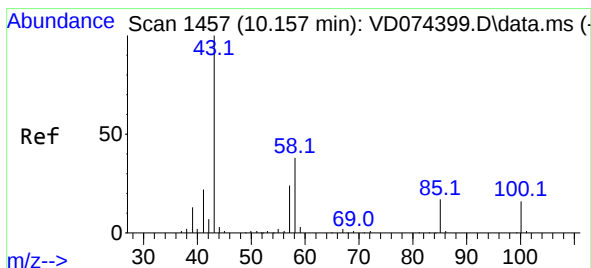
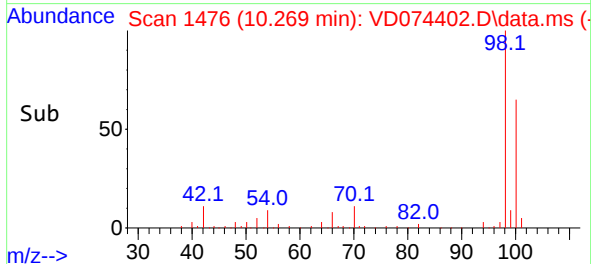
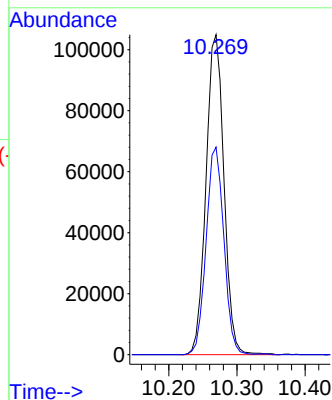
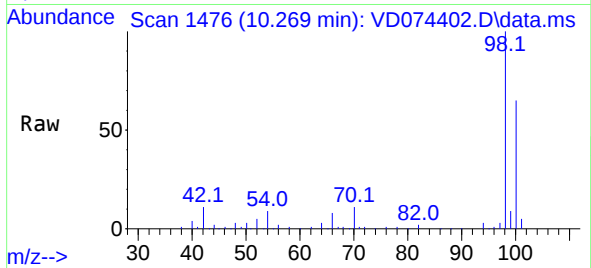




#50
Toluene-d8
Concen: 51.748 ug/l
RT: 10.269 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VD074402.D
Acq: 22 Sep 2022 13:36

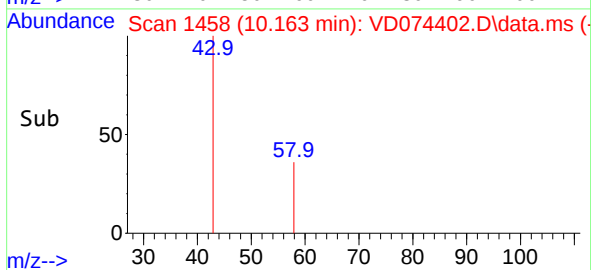
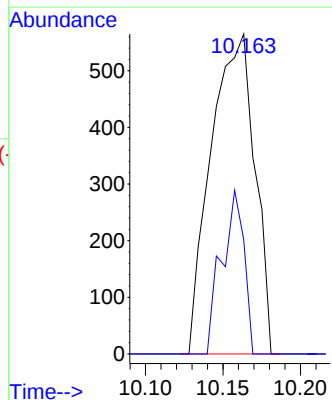
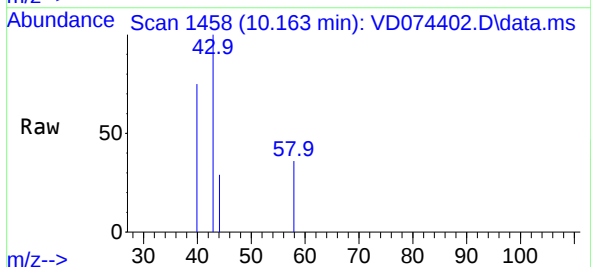
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

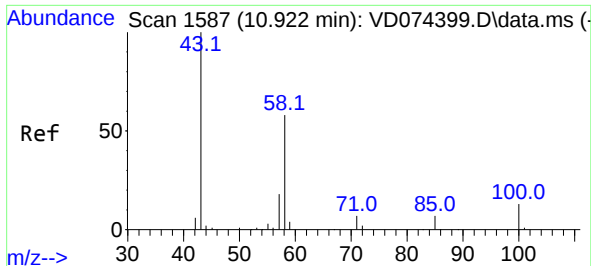
Tgt Ion: 98 Resp: 192113
Ion Ratio Lower Upper
98 100
100 64.3 51.8 77.8



#51
4-Methyl-2-Pentanone
Concen: 1.656 ug/l
RT: 10.163 min Scan# 1458
Delta R.T. 0.006 min
Lab File: VD074402.D
Acq: 22 Sep 2022 13:36

Tgt Ion: 43 Resp: 1105
Ion Ratio Lower Upper
43 100
58 26.2 33.3 49.9#

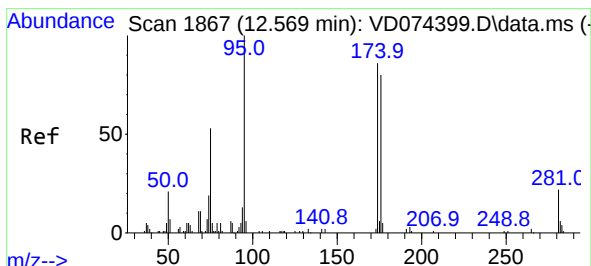
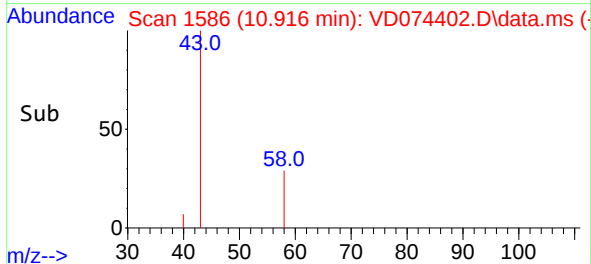
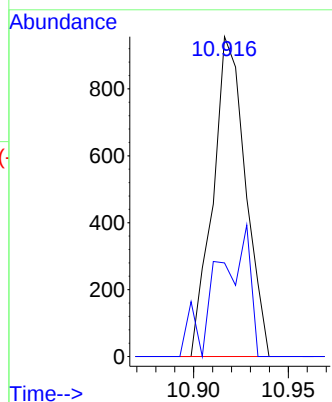
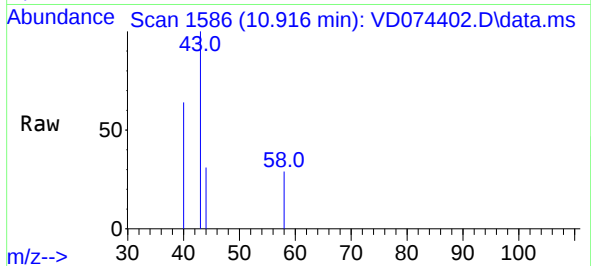




#59
2-Hexanone
Concen: 2.524 ug/l
RT: 10.916 min Scan# 1141
Delta R.T. -0.006 min
Lab File: VD074402.D
Acq: 22 Sep 2022 13:36

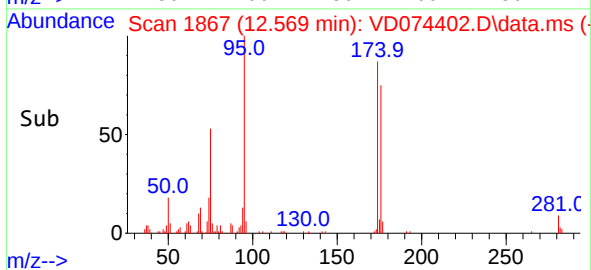
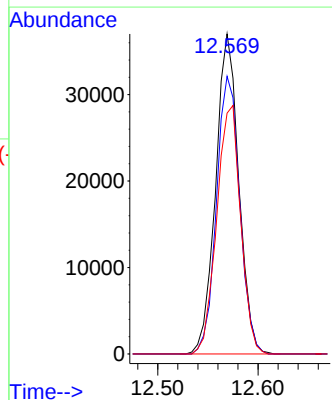
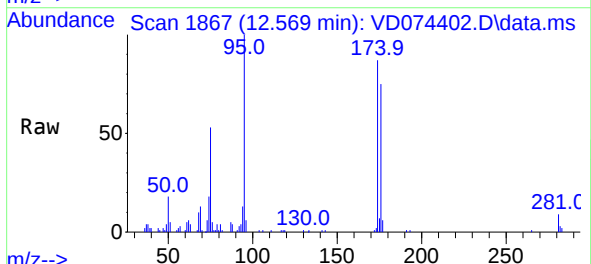
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

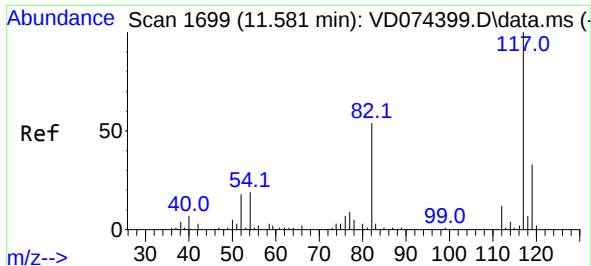
Tgt Ion: 43 Resp: 1141
Ion Ratio Lower Upper
43 100
58 41.3 28.6 85.8



#62
4-Bromofluorobenzene
Concen: 45.721 ug/l
RT: 12.569 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VD074402.D
Acq: 22 Sep 2022 13:36

Tgt Ion: 95 Resp: 59160
Ion Ratio Lower Upper
95 100
174 86.9 0.0 179.2
176 80.2 0.0 171.4

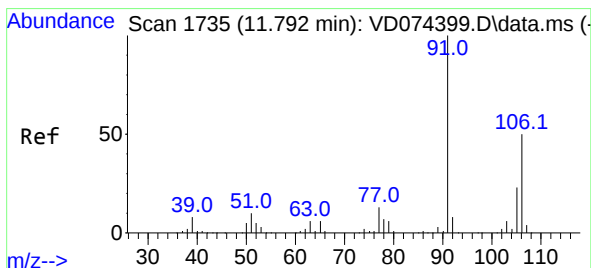
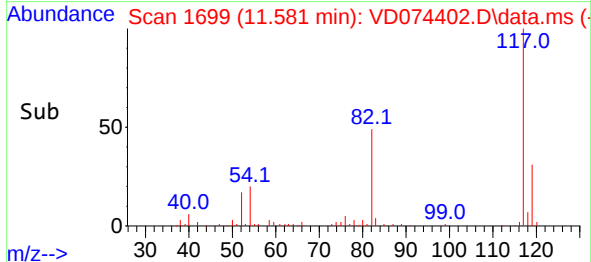
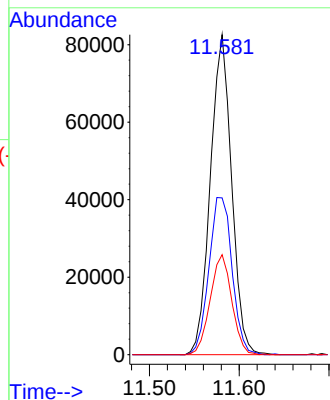
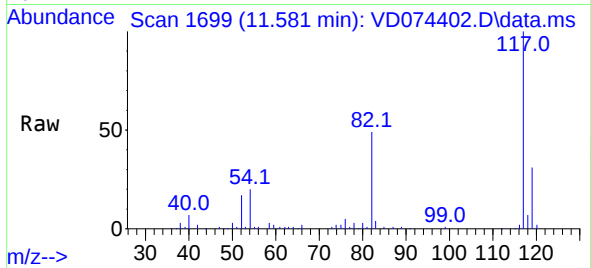




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 1177
Delta R.T. -0.000 min
Lab File: VD074402.D
Acq: 22 Sep 2022 13:36

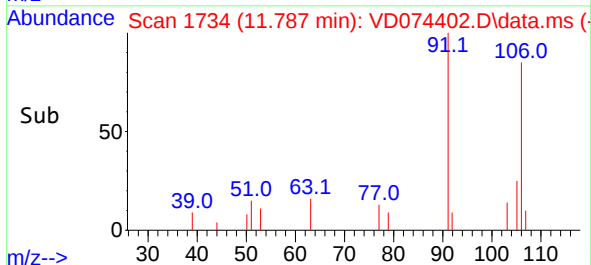
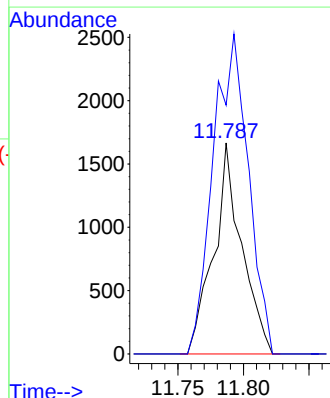
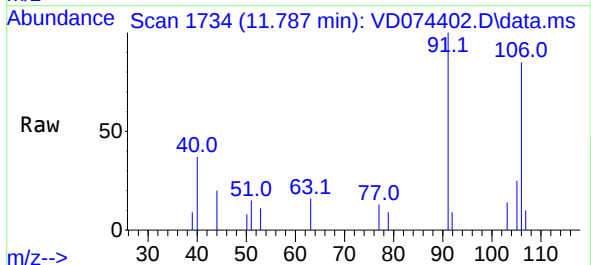
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

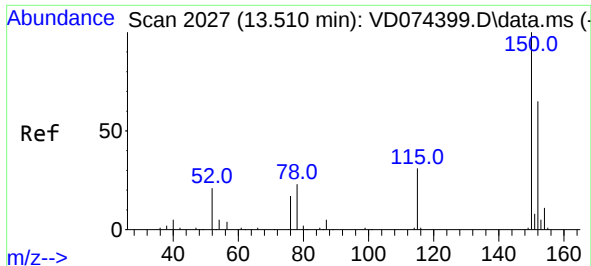
Tgt Ion:117 Resp: 135689
Ion Ratio Lower Upper
117 100
82 49.0 44.2 66.2
119 31.3 25.4 38.0



#68
m/p-Xylenes
Concen: 1.229 ug/l
RT: 11.787 min Scan# 1734
Delta R.T. -0.005 min
Lab File: VD074402.D
Acq: 22 Sep 2022 13:36

Tgt Ion:106 Resp: 2471
Ion Ratio Lower Upper
106 100
91 190.6 158.6 237.8

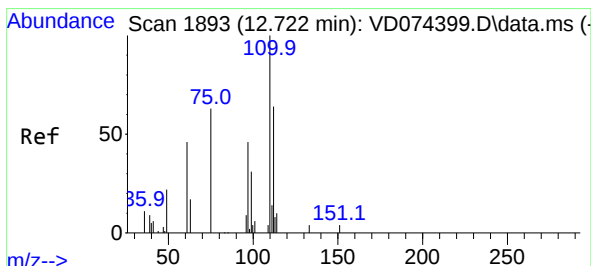
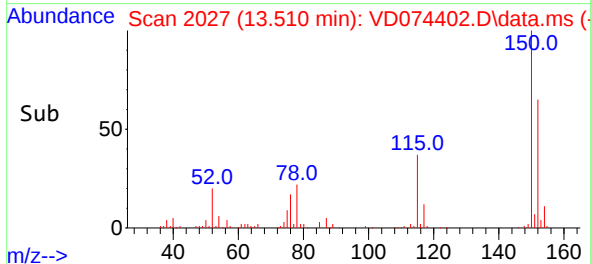
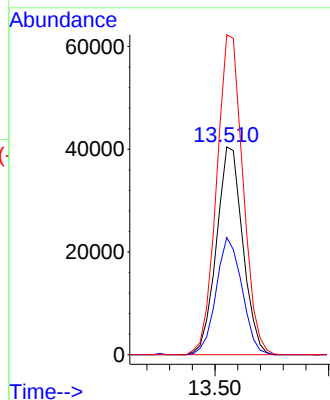
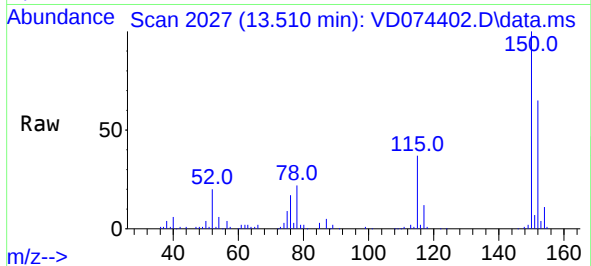




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.510 min Scan# 20
Delta R.T. 0.000 min
Lab File: VD074402.D
Acq: 22 Sep 2022 13:36

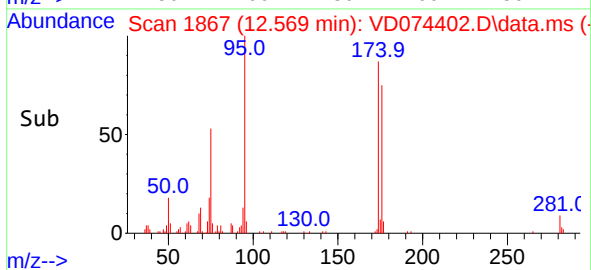
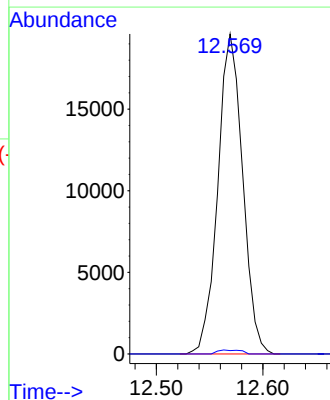
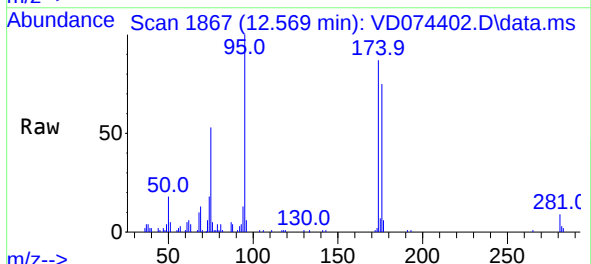
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

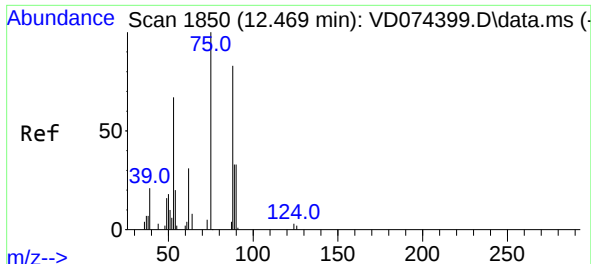
Tgt Ion:152 Resp: 65012
Ion Ratio Lower Upper
152 100
115 55.5 28.4 85.2
150 154.2 0.0 351.0



#76
1,2,3-Trichloropropane
Concen: 49.044 ug/l
RT: 12.569 min Scan# 1867
Delta R.T. -0.153 min
Lab File: VD074402.D
Acq: 22 Sep 2022 13:36

Tgt Ion: 75 Resp: 31680
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#

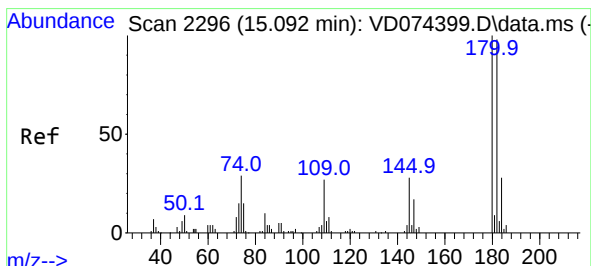
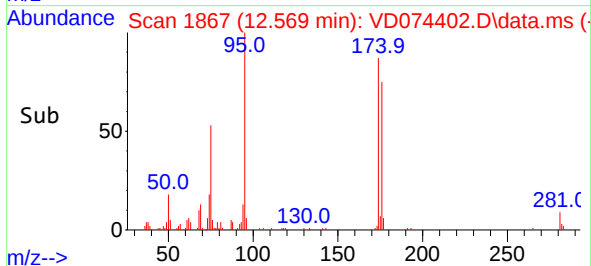
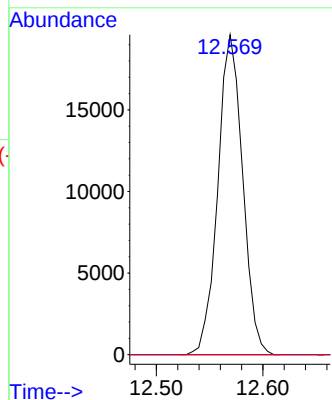
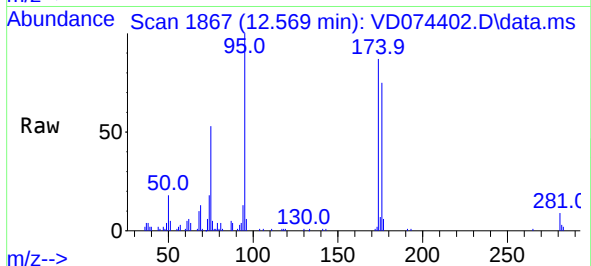




#81
trans-1,4-Dichloro-2-butene
Concen: 120.946 ug/l
RT: 12.569 min Scan# 1867
Delta R.T. 0.100 min
Lab File: VD074402.D
Acq: 22 Sep 2022 13:36

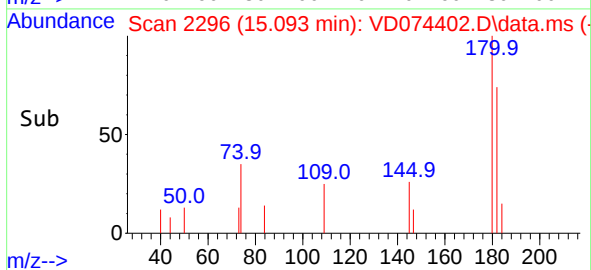
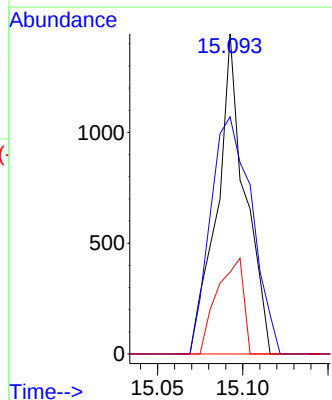
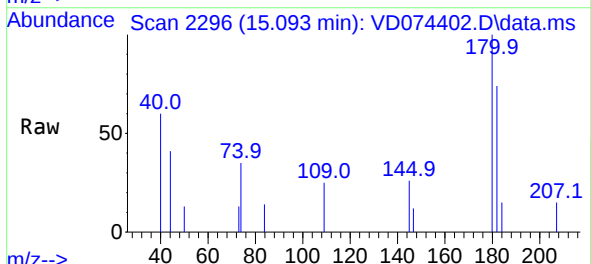
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

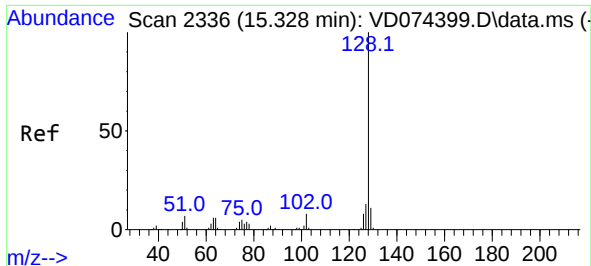
Tgt Ion:	75	Resp:	31680
Ion	Ratio	Lower	Upper
75	100		
53	0.0	0.0	0.0
89	0.0	0.0	0.0



#93
1,2,4-Trichlorobenzene
Concen: 1.281 ug/l
RT: 15.093 min Scan# 2296
Delta R.T. 0.001 min
Lab File: VD074402.D
Acq: 22 Sep 2022 13:36

Tgt Ion:	180	Resp:	1652
Ion	Ratio	Lower	Upper
180	100		
182	109.2	47.6	142.9
145	28.2	14.4	43.4

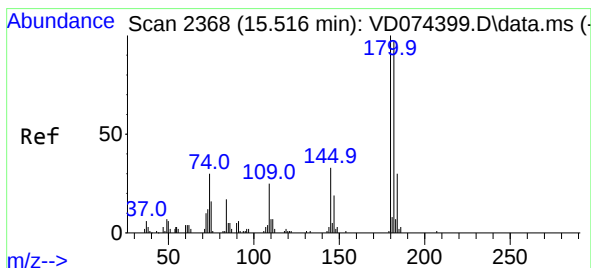
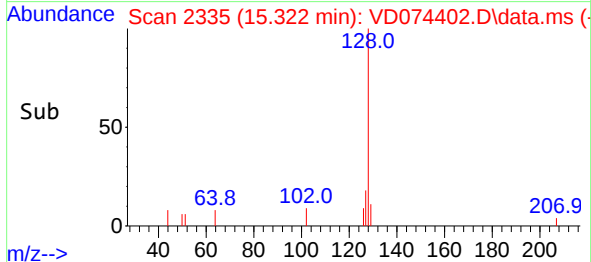
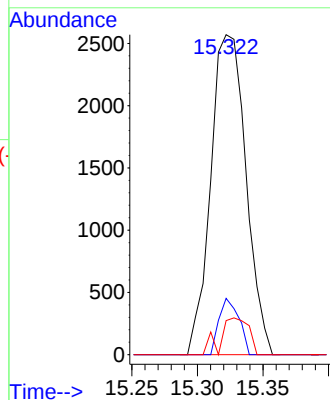
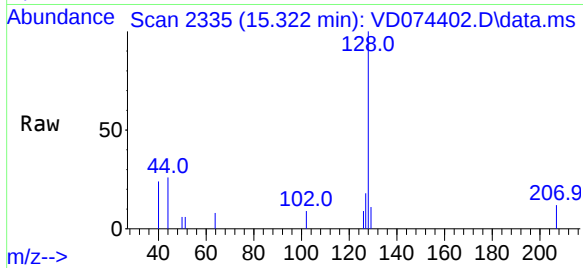




#95
Naphthalene
Concen: 1.958 ug/l
RT: 15.322 min Scan# 21
Delta R.T. -0.006 min
Lab File: VD074402.D
Acq: 22 Sep 2022 13:36

Instrument :
MSVOA_D
ClientSampleId :
VIBLK

Tgt Ion:128 Resp: 4811
Ion Ratio Lower Upper
128 100
127 9.9 10.9 16.3#
129 9.2 8.8 13.2



#96
1,2,3-Trichlorobenzene
Concen: 1.523 ug/l
RT: 15.516 min Scan# 2368
Delta R.T. 0.000 min
Lab File: VD074402.D
Acq: 22 Sep 2022 13:36

Tgt Ion:180 Resp: 1709
Ion Ratio Lower Upper
180 100
182 98.0 47.5 142.5
145 38.1 15.8 47.3

