

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD060722\
 Data File : VD073496.D
 Acq On : 07 Jun 2022 13:09
 Operator : VA/SY
 Sample : VIBLK
 Misc : 5.00G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VIBLK

Quant Time: Jun 07 18:16:28 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D051922S.M
 Quant Title : SW846 8260
 QLast Update : Thu May 19 15:13:42 2022
 Response via : Initial Calibration

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

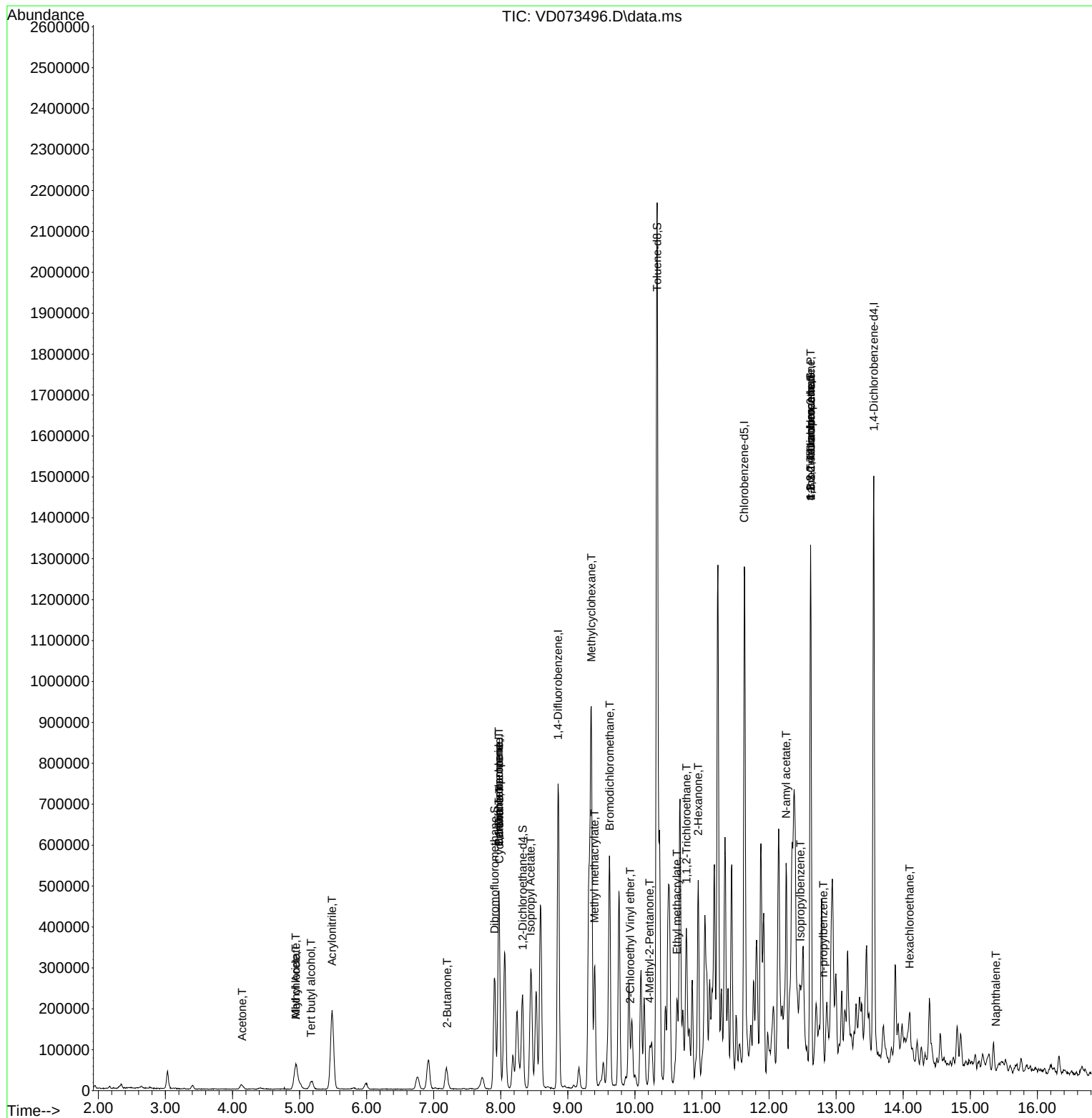
Internal Standards						
1) Pentafluorobenzene	7.973	168	350487	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	669106	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.632	117	750805	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	389749	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	175772	45.380	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	90.760%
35) Dibromofluoromethane	7.908	113	202289	45.816	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	91.640%
50) Toluene-d8	10.332	98	916528	56.313	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	=	112.620%
62) 4-Bromofluorobenzene	12.620	95	379479	66.438	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	=	132.880%
Target Compounds						
					Qvalue	
5) Bromomethane	2.779	94	1161	Below Cal	#	72
11) Tert butyl alcohol	5.173	59	9967	16.585	ug/l #	74
13) Acrolein	4.144	56	2254	Below Cal	#	61
14) Allyl chloride	4.944	41	24598	4.326	ug/l #	59
15) Acrylonitrile	5.485	53	7962	9.896	ug/l #	47
16) Acetone	4.144	43	8486	12.649	ug/l #	63
18) Methyl Acetate	4.944	43	51901	27.820	ug/l #	55
20) Methylene Chloride	4.956	84	16008	Below Cal	#	80
25) 2-Butanone	7.203	43	7278	7.415	ug/l #	52
31) Cyclohexane	7.979	56	13683	2.021	ug/l #	31
36) 1,1-Dichloropropene	7.973	75	28471	4.288	ug/l #	45
38) Carbon Tetrachloride	7.973	117	37430	5.561	ug/l #	17
39) Methylcyclohexane	9.350	83	405984	54.860	ug/l	100
43) Isopropyl Acetate	8.444	43	89349	18.430	ug/l #	54
47) Bromodichloromethane	9.626	83	15301	2.259	ug/l #	39
48) Methyl methacrylate	9.397	41	57522	23.583	ug/l #	49
51) 4-Methyl-2-Pentanone	10.220	43	4411	1.752	ug/l #	87
55) 1,1,2-Trichloroethane	10.767	97	138835	38.787	ug/l #	22
56) Ethyl methacrylate	10.626	69	63771	16.024	ug/l #	65
58) 2-Chloroethyl Vinyl ether	9.932	63	101	21.670	ug/l #	48
59) 2-Hexanone	10.944	43	185731	111.880	ug/l #	33
73) Isopropylbenzene	12.467	105	38165	1.374	ug/l	96
74) N-amyl acetate	12.255	43	103046	17.001	ug/l #	65
75) 1,1,2,2-Tetrachloroethane	12.620	83	7905	1.543	ug/l	64
76) 1,2,3-Trichloropropane	12.620	75	188140	49.198	ug/l #	100
78) n-propylbenzene	12.808	91	46676	1.338	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.620	75	188140	118.110	ug/l #	8
90) Hexachloroethane	14.096	117	5298	1.037	ug/l #	17
95) Naphthalene	15.384	128	1392	3.643	ug/l #	60

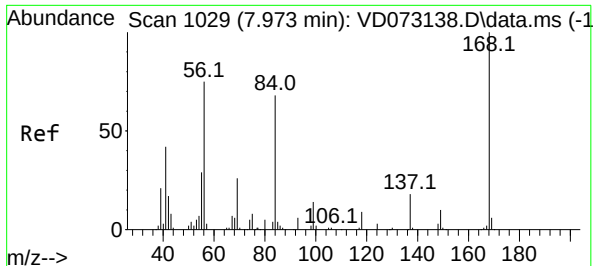
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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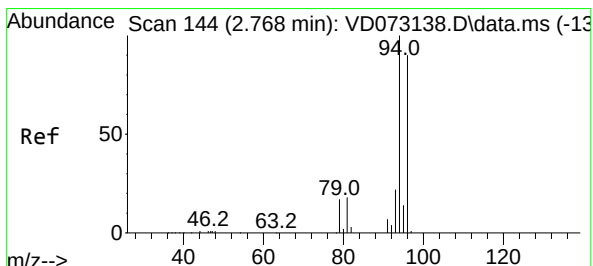
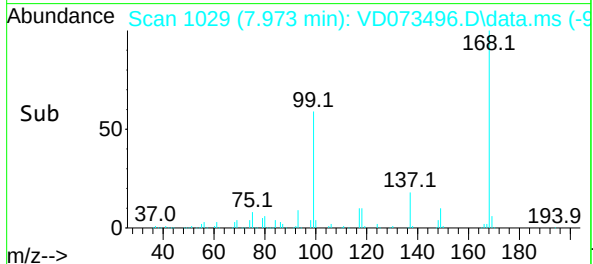
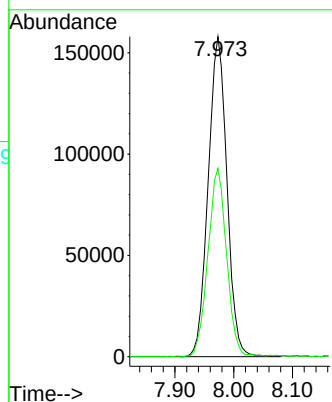
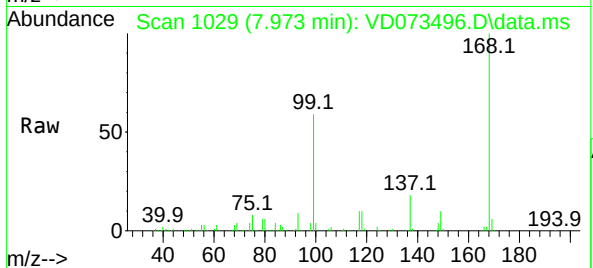




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. 0.000 min
Lab File: VD073496.D
Acq: 07 Jun 2022 13:09

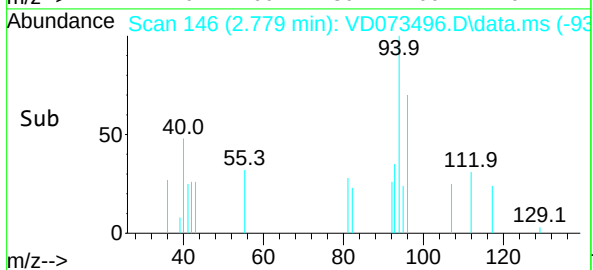
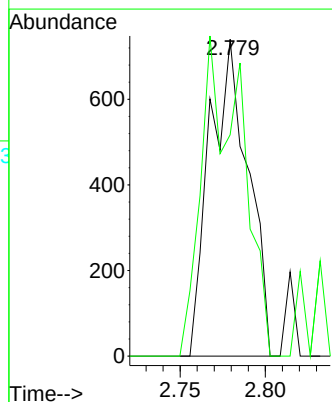
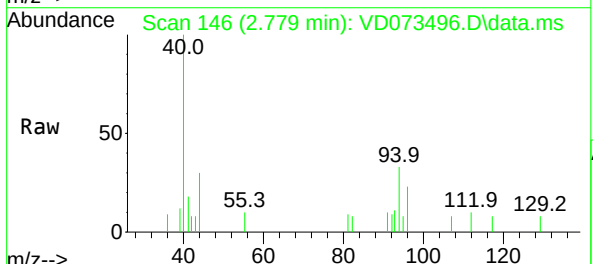
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

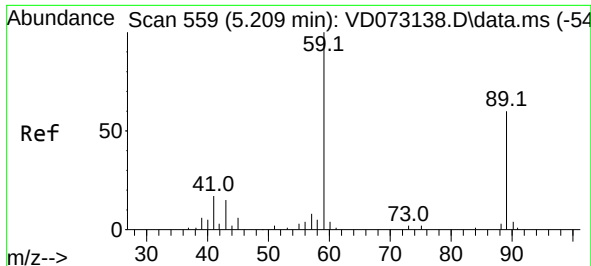
Tgt Ion:168 Resp: 350487
Ion Ratio Lower Upper
168 100
99 58.7 49.8 74.6



#5
Bromomethane
Concen: Below Cal
RT: 2.779 min Scan# 146
Delta R.T. 0.011 min
Lab File: VD073496.D
Acq: 07 Jun 2022 13:09

Tgt Ion: 94 Resp: 1161
Ion Ratio Lower Upper
94 100
96 69.9 77.6 116.4#





#11

Tert butyl alcohol

Concen: 16.585 ug/l

RT: 5.173 min Scan# 51

Delta R.T. -0.036 min

Lab File: VD073496.D

Acq: 07 Jun 2022 13:09

Instrument :

MSVOA_D

ClientSampleId :

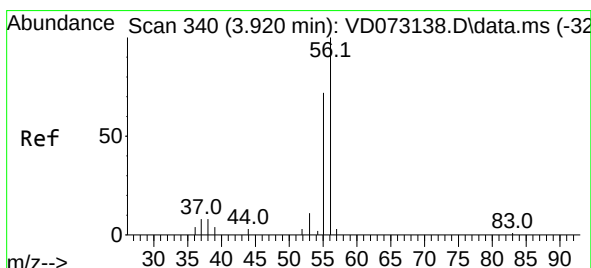
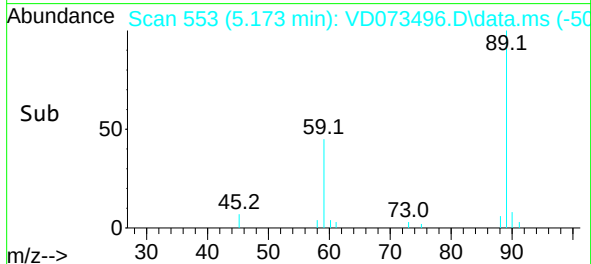
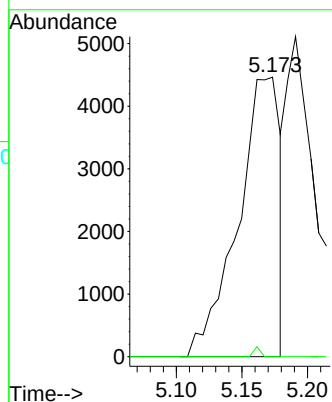
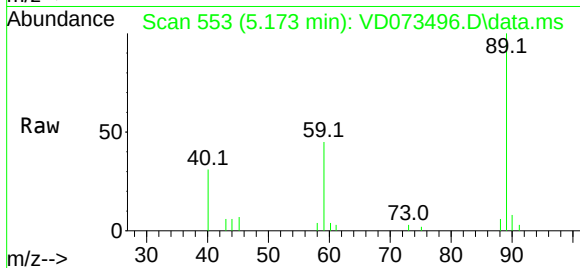
VIBLK

Tgt Ion: 59 Resp: 9967

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



#13

Acrolein

Concen: Below Cal

RT: 4.144 min Scan# 378

Delta R.T. 0.224 min

Lab File: VD073496.D

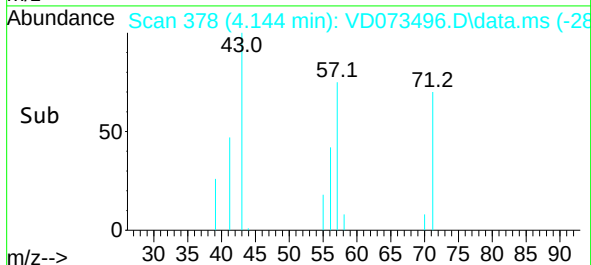
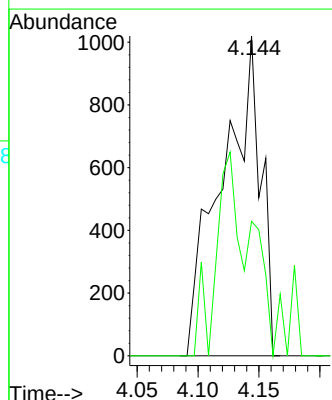
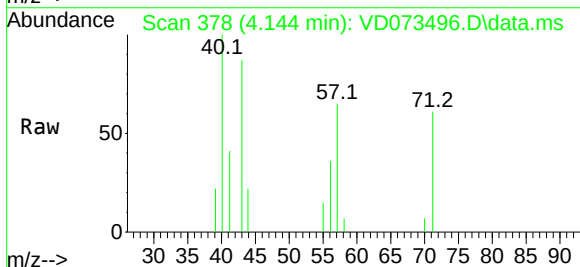
Acq: 07 Jun 2022 13:09

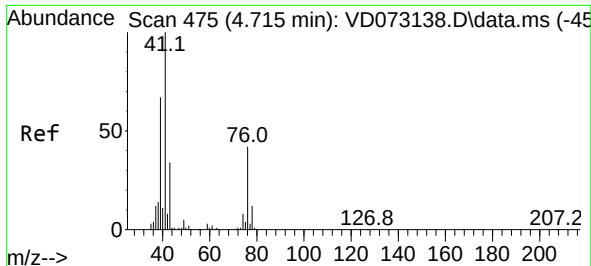
Tgt Ion: 56 Resp: 2254

Ion Ratio Lower Upper

56 100

55 38.6 57.1 85.7#

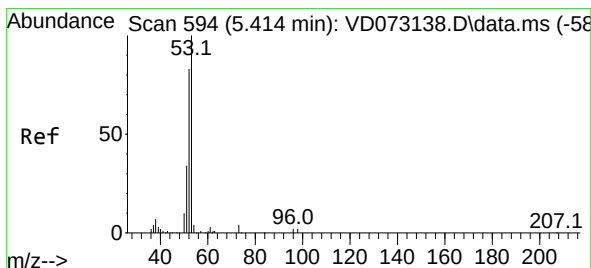
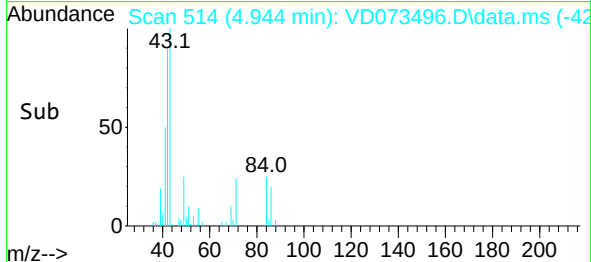
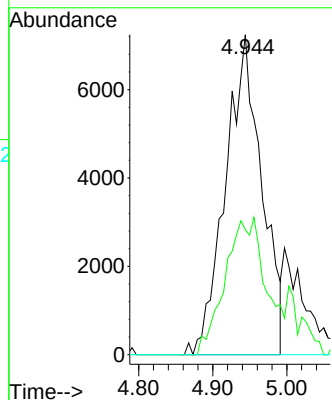
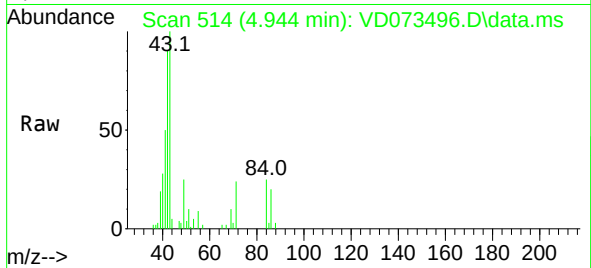




#14
 Allyl chloride
 Concen: 4.326 ug/l
 RT: 4.944 min Scan# 51
 Delta R.T. 0.229 min
 Lab File: VD073496.D
 Acq: 07 Jun 2022 13:09

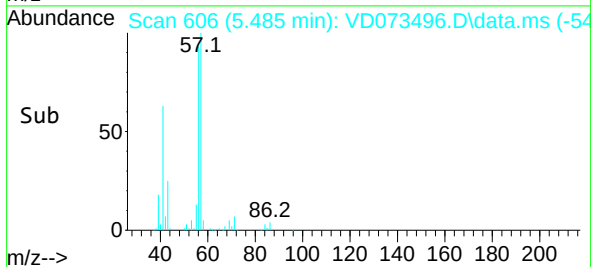
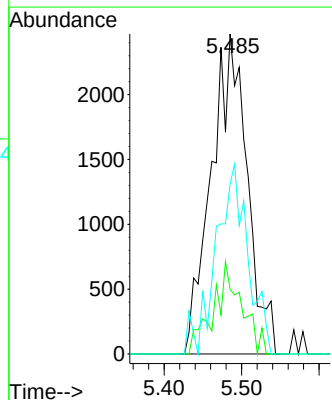
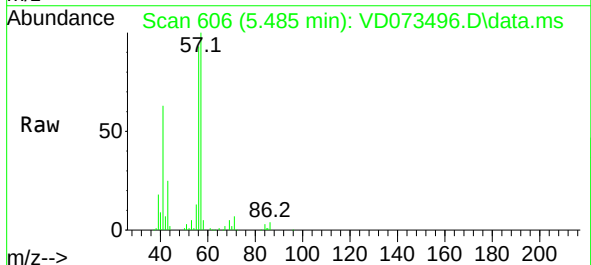
Instrument :
 MSVOA_D
 ClientSampleId :
 VIBLK

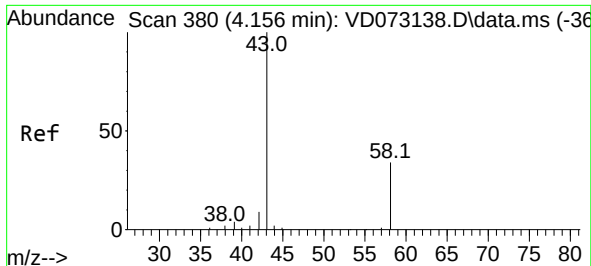
Tgt Ion: 41 Resp: 24598
 Ion Ratio Lower Upper
 41 100
 39 45.7 59.3 88.9#
 76 0.0 25.7 38.5#



#15
 Acrylonitrile
 Concen: 9.896 ug/l
 RT: 5.485 min Scan# 606
 Delta R.T. 0.071 min
 Lab File: VD073496.D
 Acq: 07 Jun 2022 13:09

Tgt Ion: 53 Resp: 7962
 Ion Ratio Lower Upper
 53 100
 52 22.7 67.2 100.8#
 51 50.5 30.3 45.5#

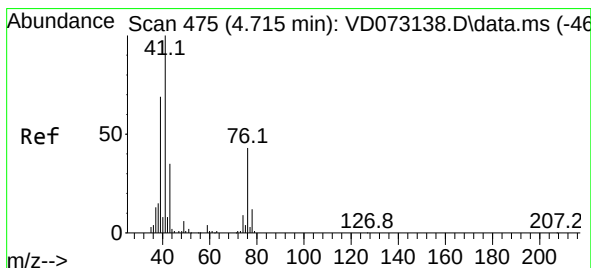
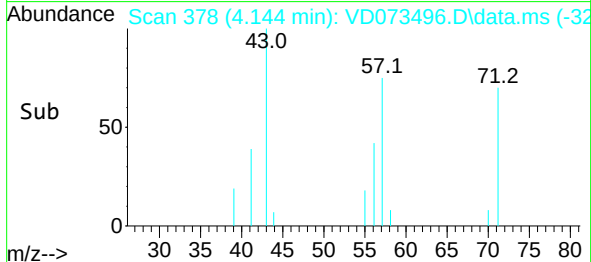
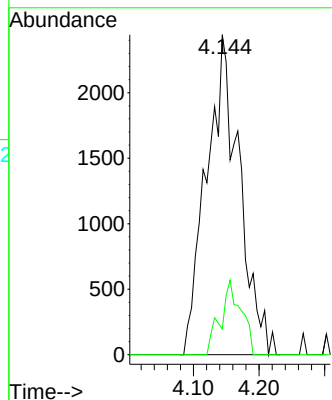
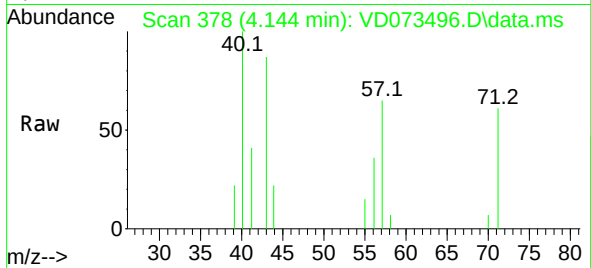




#16
Acetone
Concen: 12.649 ug/l
RT: 4.144 min Scan# 31
Delta R.T. -0.012 min
Lab File: VD073496.D
Acq: 07 Jun 2022 13:09

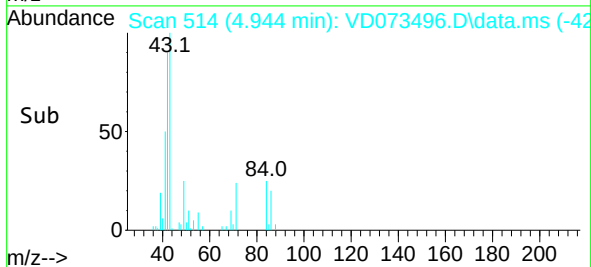
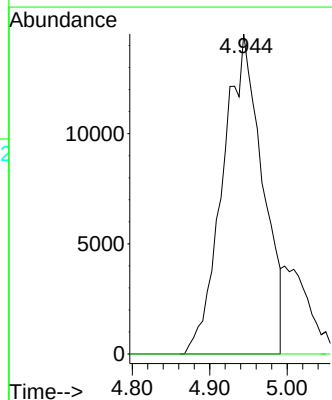
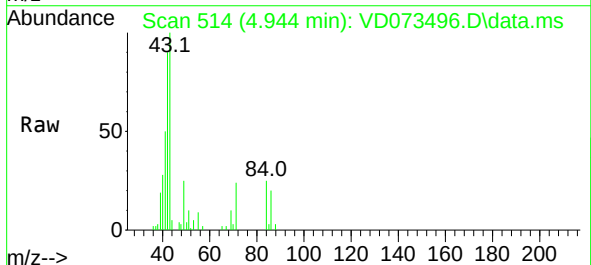
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

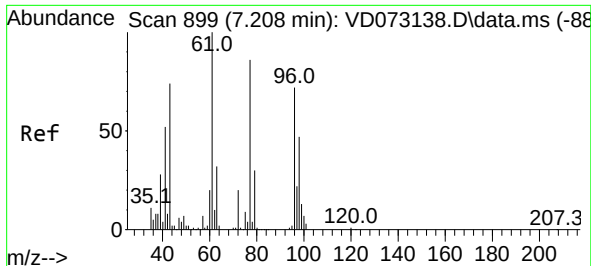
Tgt Ion: 43 Resp: 8486
Ion Ratio Lower Upper
43 100
58 8.1 22.1 33.1#



#18
Methyl Acetate
Concen: 27.820 ug/l
RT: 4.944 min Scan# 514
Delta R.T. 0.229 min
Lab File: VD073496.D
Acq: 07 Jun 2022 13:09

Tgt Ion: 43 Resp: 51901
Ion Ratio Lower Upper
43 100
74 0.0 16.7 25.1#

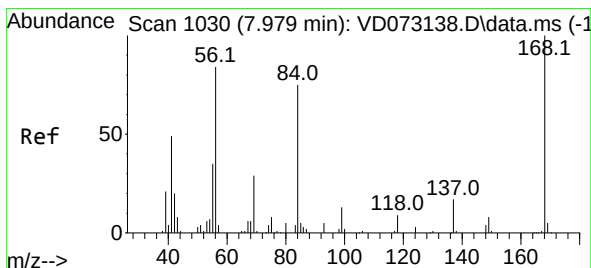
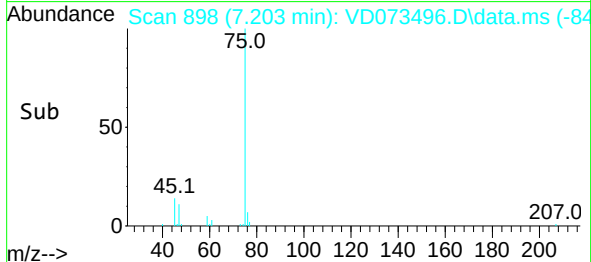
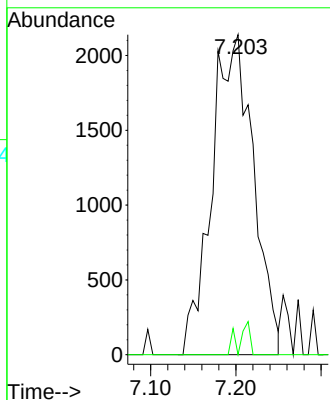
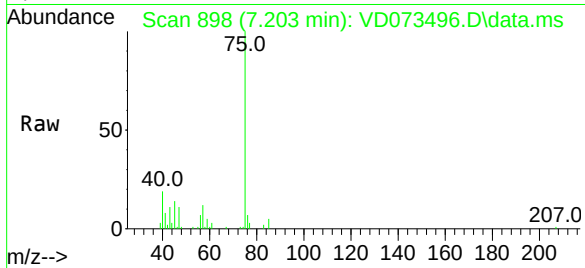




#25
2-Butanone
Concen: 7.415 ug/l
RT: 7.203 min Scan# 899
Delta R.T. -0.005 min
Lab File: VD073496.D
Acq: 07 Jun 2022 13:09

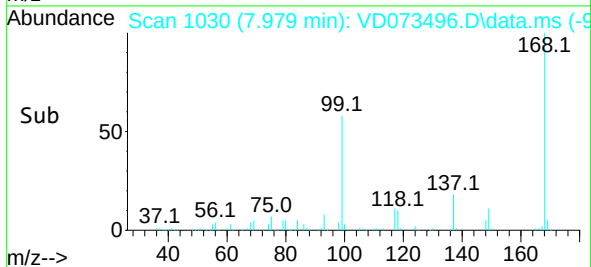
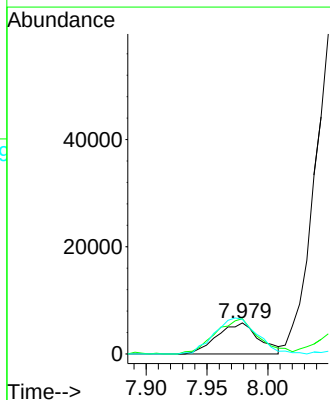
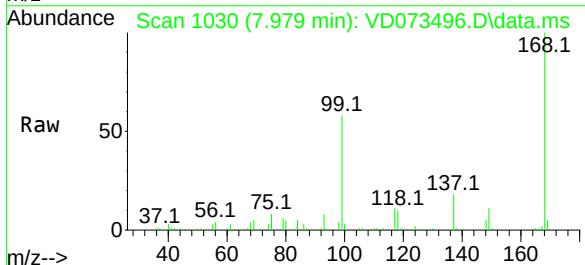
Instrument :
MSVOA_D
ClientSampleId :
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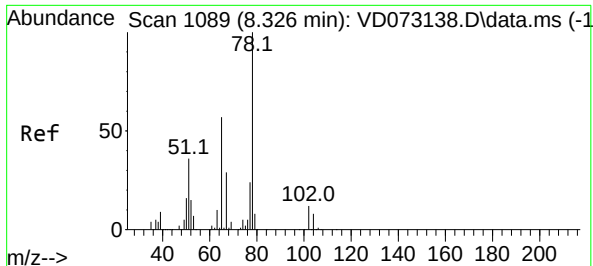
Tgt Ion: 43 Resp: 7278
Ion Ratio Lower Upper
43 100
72 0.0 18.6 27.8#



#31
Cyclohexane
Concen: 2.021 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.000 min
Lab File: VD073496.D
Acq: 07 Jun 2022 13:09

Tgt Ion: 56 Resp: 13683
Ion Ratio Lower Upper
56 100
69 113.0 25.4 38.2#
84 111.8 63.0 94.4#





#33

1,2-Dichloroethane-d4

Concen: 45.380 ug/l

RT: 8.326 min Scan# 1089

Delta R.T. 0.000 min

Lab File: VD073496.D

Acq: 07 Jun 2022 13:09

Instrument :

MSVOA_D

ClientSampleId :

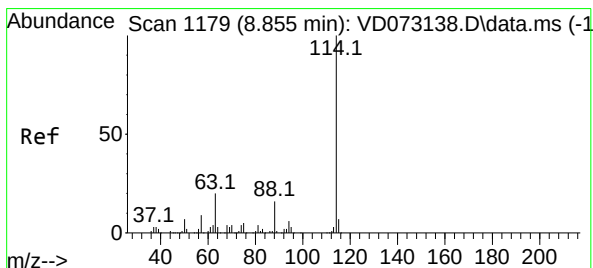
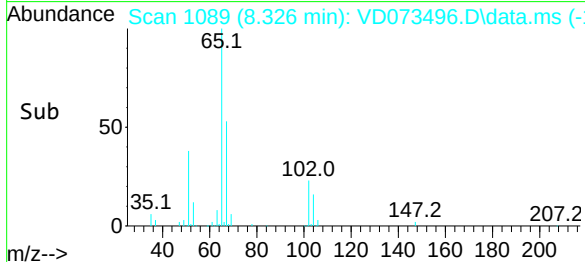
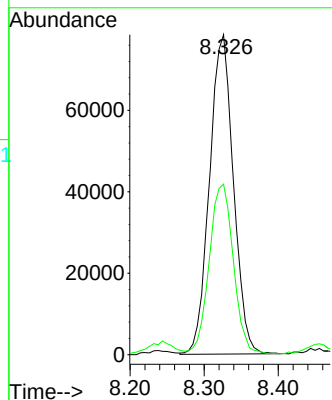
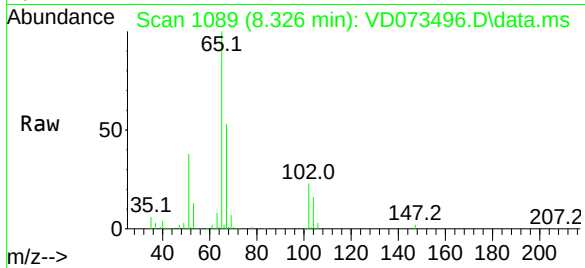
VIBLK

Tgt Ion: 65 Resp: 175772

Ion Ratio Lower Upper

65 100

67 53.2 0.0 101.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.855 min Scan# 1179

Delta R.T. 0.000 min

Lab File: VD073496.D

Acq: 07 Jun 2022 13:09

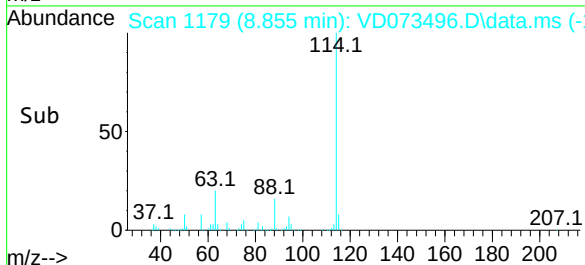
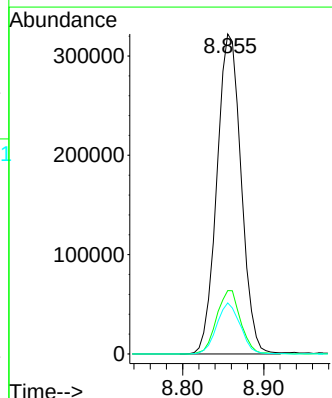
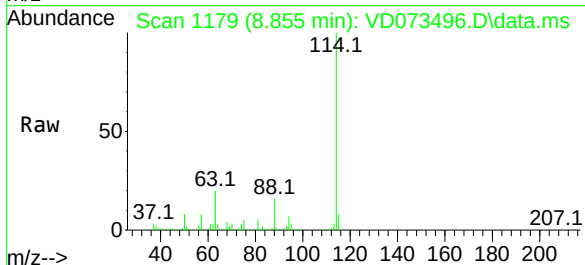
Tgt Ion: 114 Resp: 669106

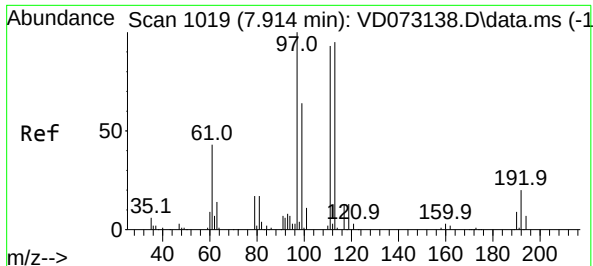
Ion Ratio Lower Upper

114 100

63 19.8 0.0 46.6

88 16.0 0.0 33.2





#35

Dibromofluoromethane

Concen: 45.816 ug/l

RT: 7.908 min Scan# 1018

Delta R.T. -0.006 min

Lab File: VD073496.D

Acq: 07 Jun 2022 13:09

Instrument :

MSVOA_D

ClientSampleId :

VIBLK

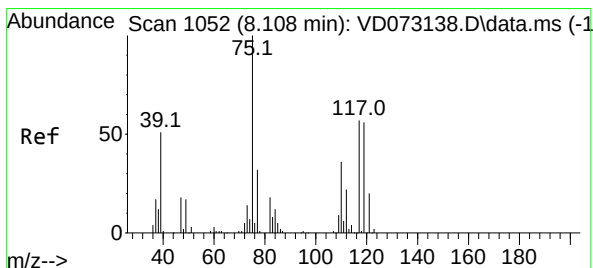
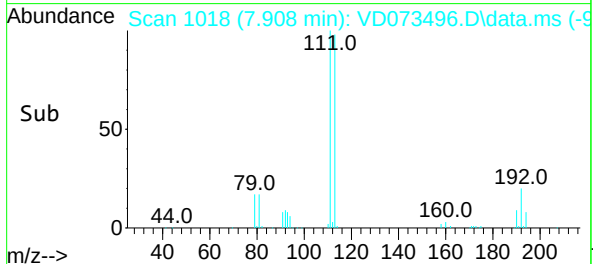
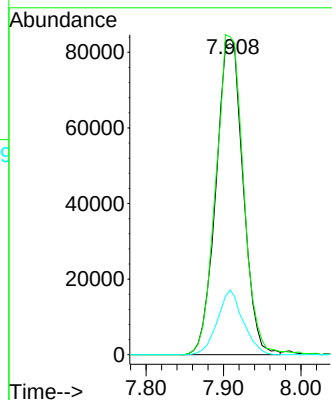
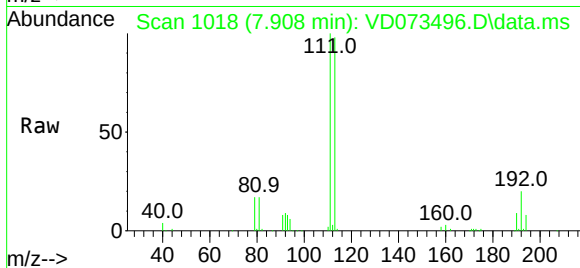
Tgt Ion:113 Resp: 202289

Ion Ratio Lower Upper

113 100

111 103.7 83.8 125.6

192 19.5 14.6 21.8



#36

1,1-Dichloropropene

Concen: 4.288 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.135 min

Lab File: VD073496.D

Acq: 07 Jun 2022 13:09

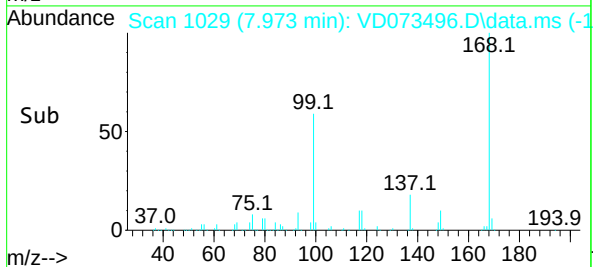
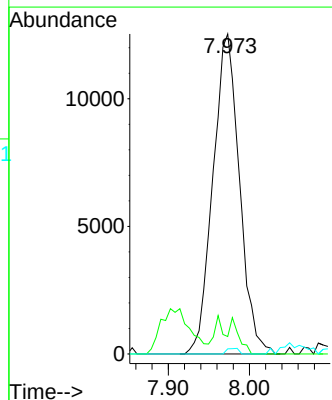
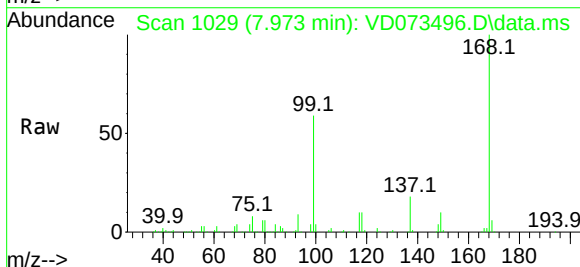
Tgt Ion: 75 Resp: 28471

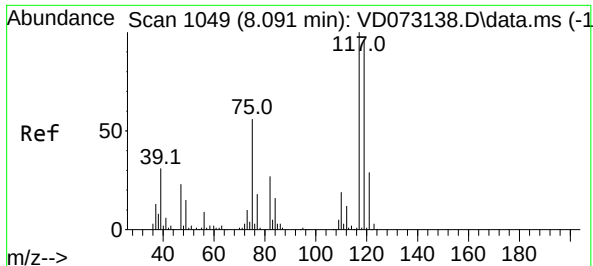
Ion Ratio Lower Upper

75 100

110 2.6 16.4 49.1#

77 0.0 24.2 36.2#

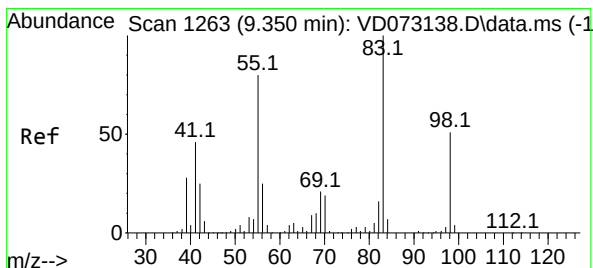
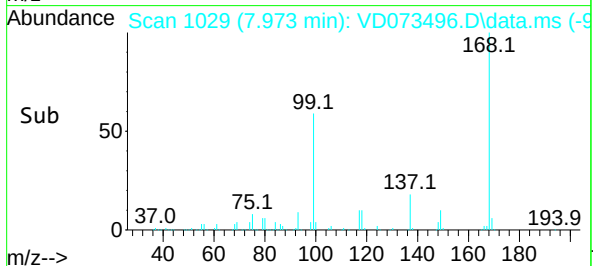
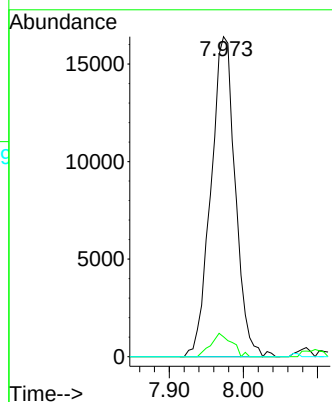
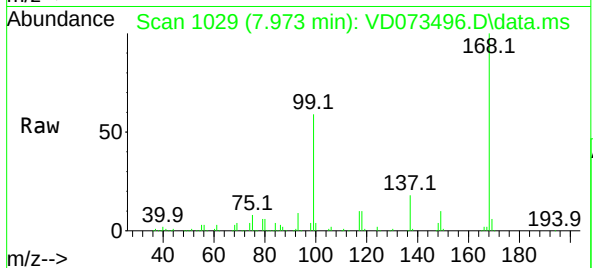




#38
Carbon Tetrachloride
Concen: 5.561 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.118 min
Lab File: VD073496.D
Acq: 07 Jun 2022 13:09

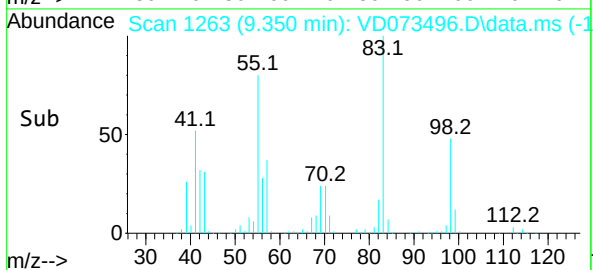
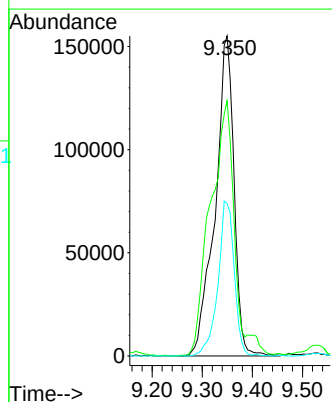
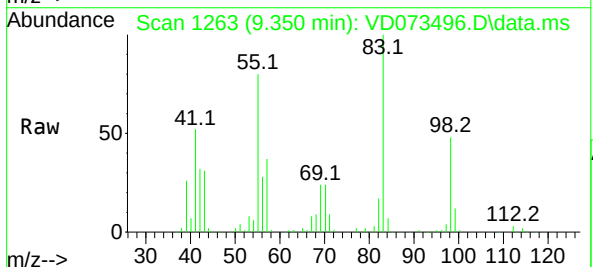
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

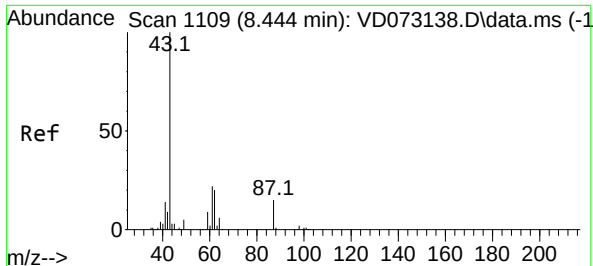
Tgt Ion:117 Resp: 37430
Ion Ratio Lower Upper
117 100
119 6.2 75.8 113.6#
121 0.0 24.5 36.7#



#39
Methylcyclohexane
Concen: 54.860 ug/l
RT: 9.350 min Scan# 1263
Delta R.T. -0.000 min
Lab File: VD073496.D
Acq: 07 Jun 2022 13:09

Tgt Ion: 83 Resp: 405984
Ion Ratio Lower Upper
83 100
55 79.5 63.2 94.8
98 47.6 38.2 57.4

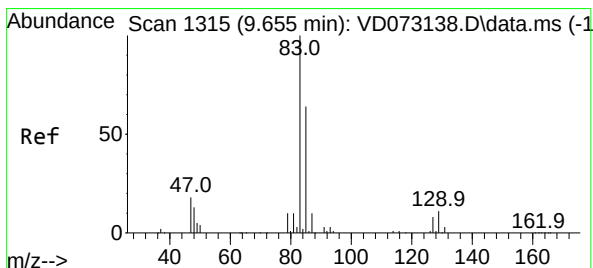
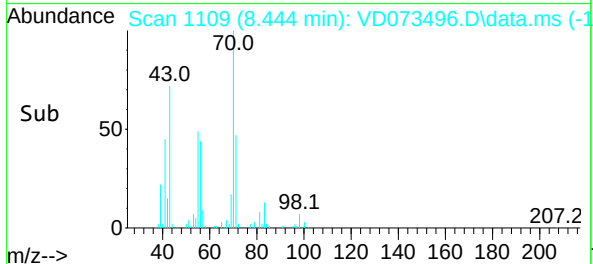
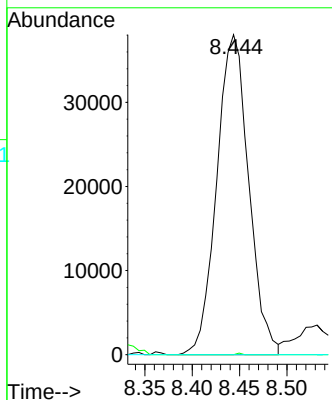
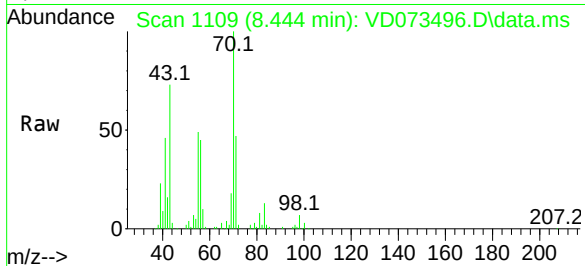




#43
Isopropyl Acetate
Concen: 18.430 ug/l
RT: 8.444 min Scan# 1109
Delta R.T. -0.000 min
Lab File: VD073496.D
Acq: 07 Jun 2022 13:09

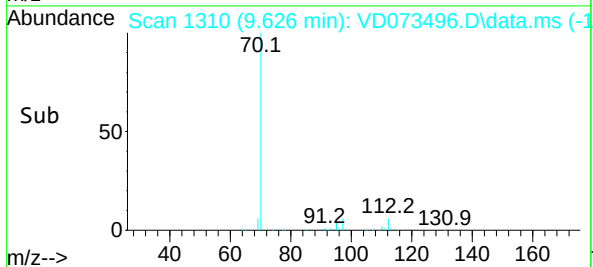
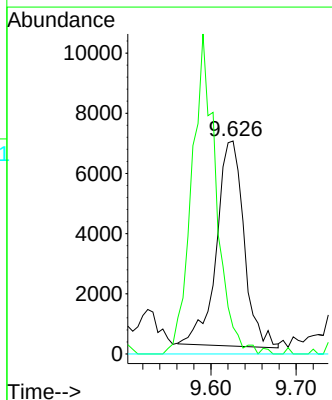
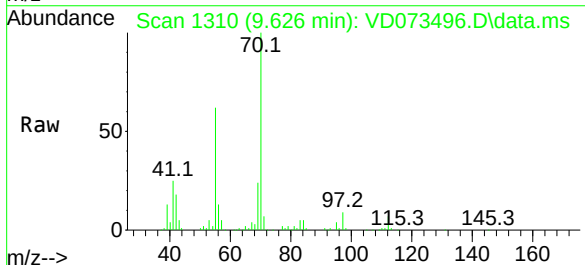
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

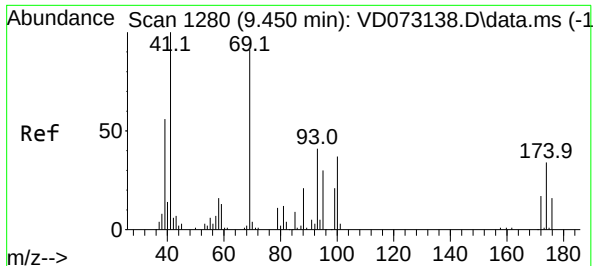
Tgt Ion: 43 Resp: 89349
Ion Ratio Lower Upper
43 100
61 0.0 22.4 33.6#
87 0.0 8.7 13.1#



#47
Bromodichloromethane
Concen: 2.259 ug/l
RT: 9.626 min Scan# 1310
Delta R.T. -0.029 min
Lab File: VD073496.D
Acq: 07 Jun 2022 13:09

Tgt Ion: 83 Resp: 15301
Ion Ratio Lower Upper
83 100
85 13.2 51.4 77.0#
127 0.0 6.1 9.1#





#48

Methyl methacrylate

Concen: 23.583 ug/l

RT: 9.397 min Scan# 1271

Delta R.T. -0.053 min

Lab File: VD073496.D

Acq: 07 Jun 2022 13:09

Instrument :

MSVOA_D

ClientSampleId :

VIBLK

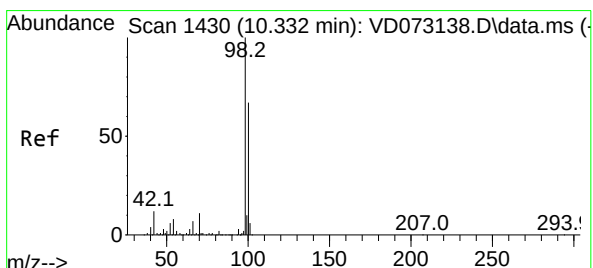
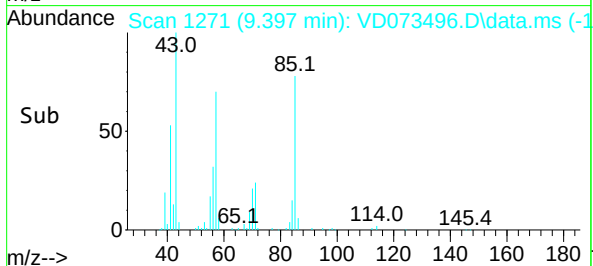
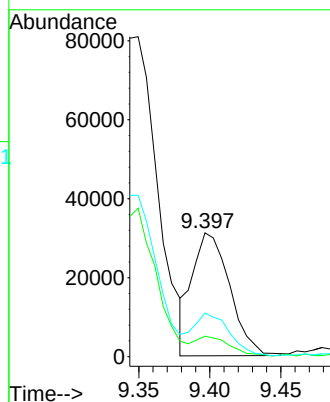
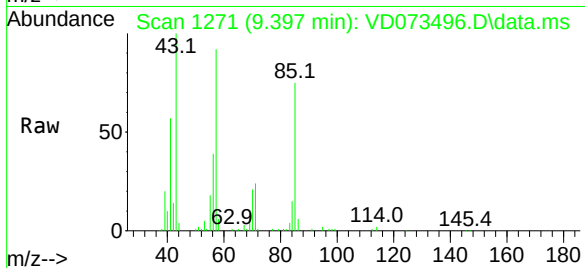
Tgt Ion: 41 Resp: 57522

Ion Ratio Lower Upper

41 100

69 14.4 56.7 85.1#

39 34.1 42.7 64.1#



#50

Toluene-d8

Concen: 56.313 ug/l

RT: 10.332 min Scan# 1430

Delta R.T. -0.000 min

Lab File: VD073496.D

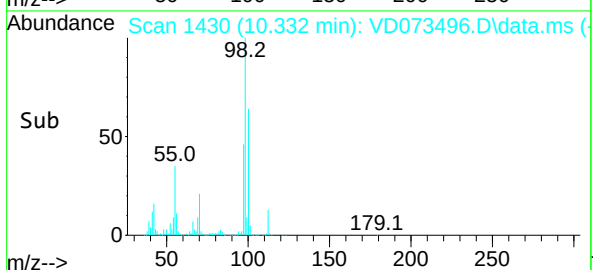
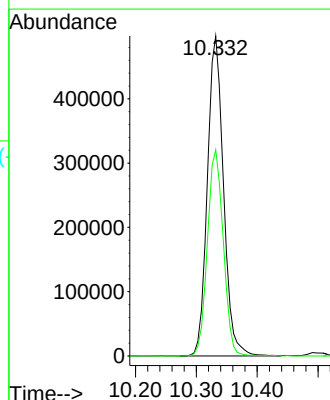
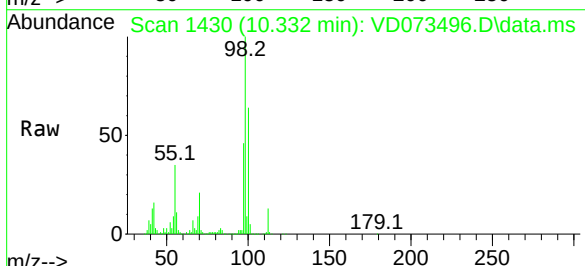
Acq: 07 Jun 2022 13:09

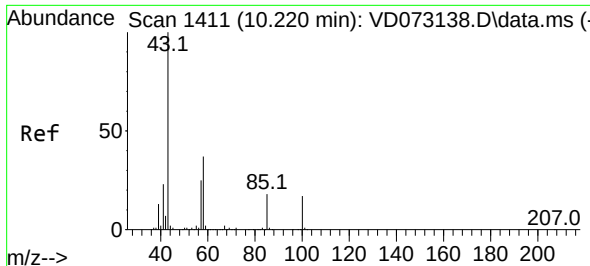
Tgt Ion: 98 Resp: 916528

Ion Ratio Lower Upper

98 100

100 63.3 52.4 78.6

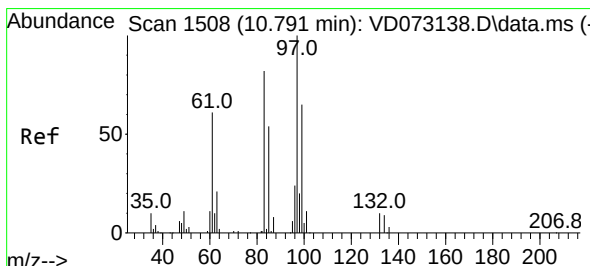
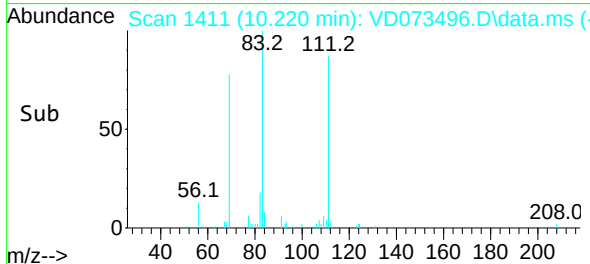
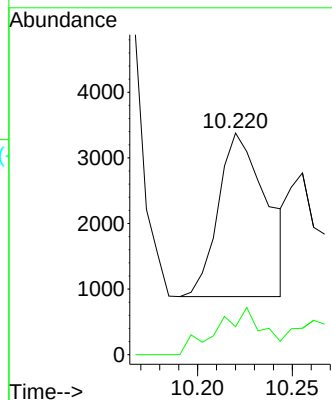
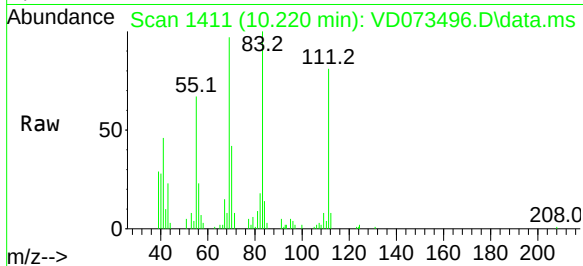




#51
4-Methyl-2-Pentanone
Concen: 1.752 ug/l
RT: 10.220 min Scan# 1411
Delta R.T. 0.000 min
Lab File: VD073496.D
Acq: 07 Jun 2022 13:09

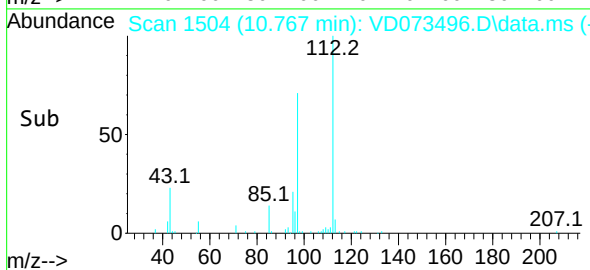
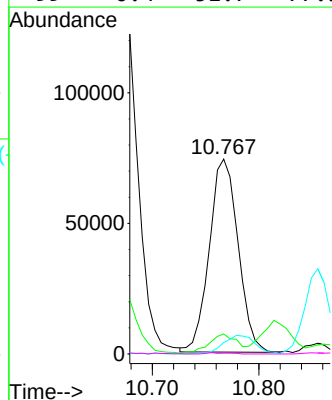
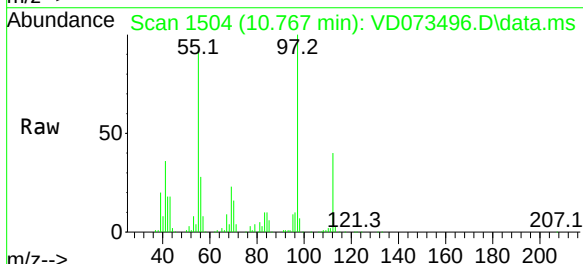
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

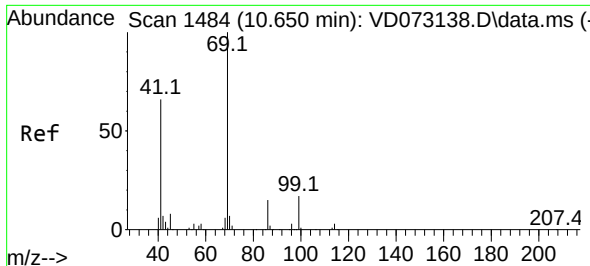
Tgt Ion: 43 Resp: 4411
Ion Ratio Lower Upper
43 100
58 27.9 28.6 43.0#



#55
1,1,2-Trichloroethane
Concen: 38.787 ug/l
RT: 10.767 min Scan# 1504
Delta R.T. -0.024 min
Lab File: VD073496.D
Acq: 07 Jun 2022 13:09

Tgt Ion: 97 Resp: 138835
Ion Ratio Lower Upper
97 100
83 9.9 69.0 103.4#
85 5.9 42.6 63.8#
99 0.4 51.7 77.5#

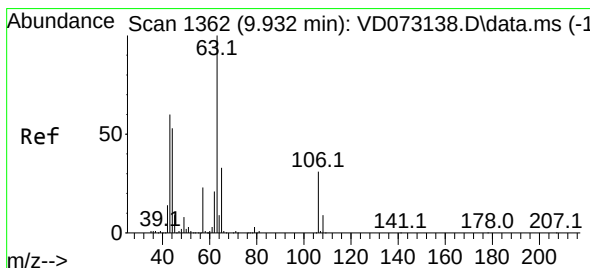
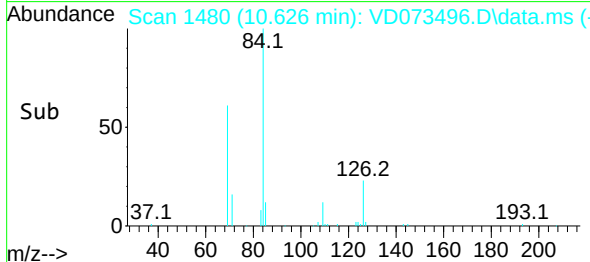
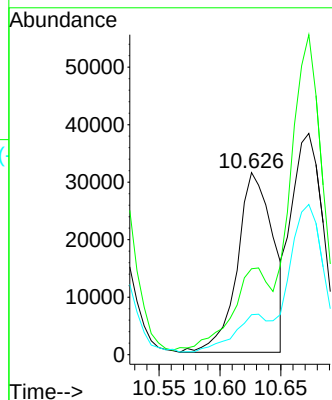
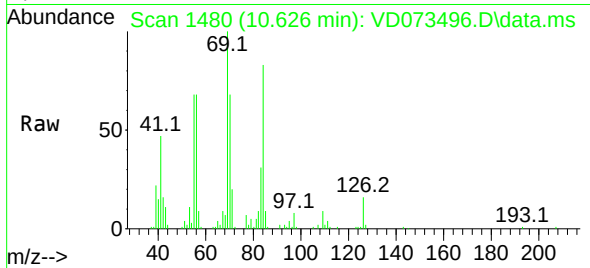




#56
Ethyl methacrylate
Concen: 16.024 ug/l
RT: 10.626 min Scan# 1480
Delta R.T. -0.024 min
Lab File: VD073496.D
Acq: 07 Jun 2022 13:09

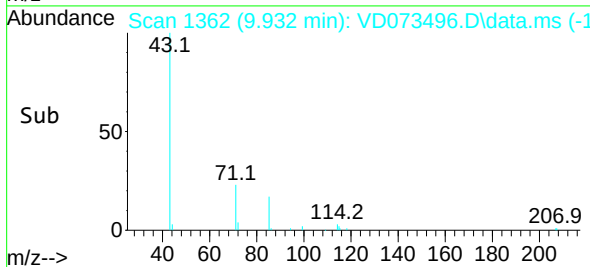
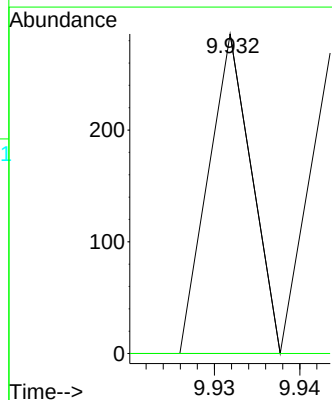
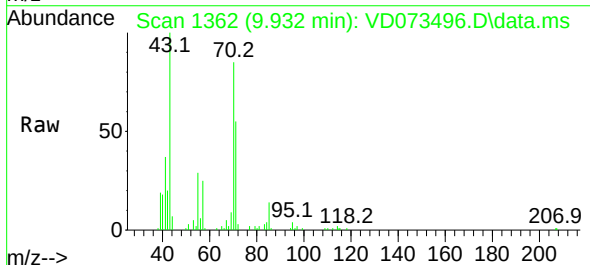
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

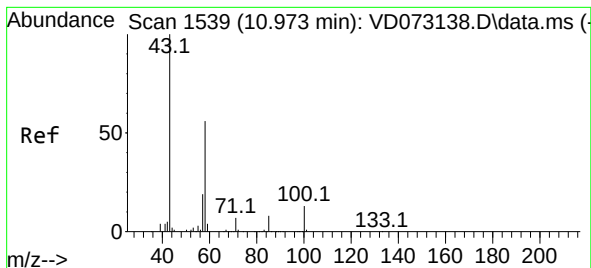
Tgt Ion: 69 Resp: 63771
Ion Ratio Lower Upper
69 100
41 49.1 63.0 94.6#
39 18.9 33.8 50.8#



#58
2-Chloroethyl Vinyl ether
Concen: 21.670 ug/l
RT: 9.932 min Scan# 1362
Delta R.T. -0.000 min
Lab File: VD073496.D
Acq: 07 Jun 2022 13:09

Tgt Ion: 63 Resp: 101
Ion Ratio Lower Upper
63 100
106 0.0 21.4 32.0#

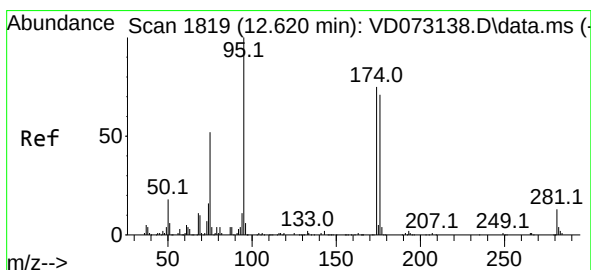
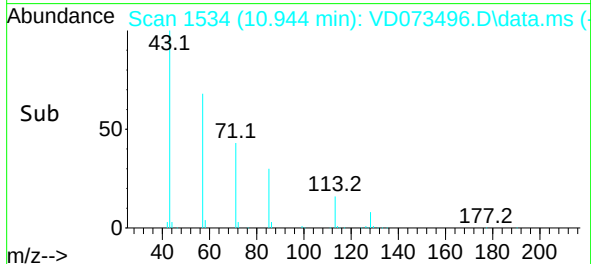
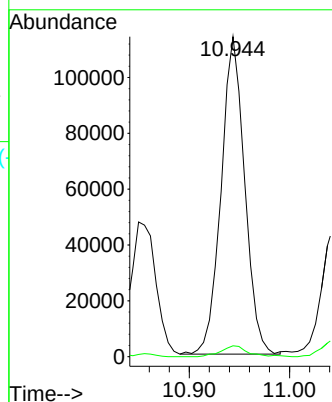
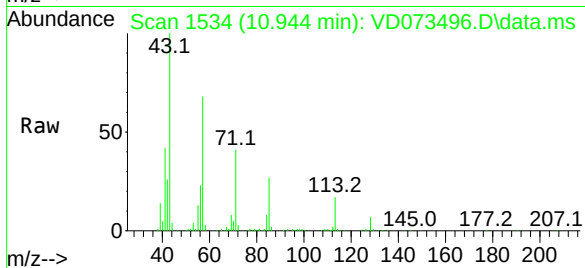




#59
2-Hexanone
Concen: 111.880 ug/l
RT: 10.944 min Scan# 11
Delta R.T. -0.029 min
Lab File: VD073496.D
Acq: 07 Jun 2022 13:09

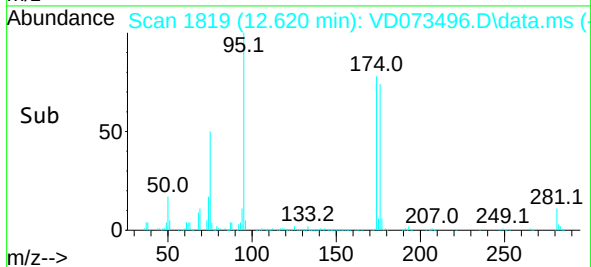
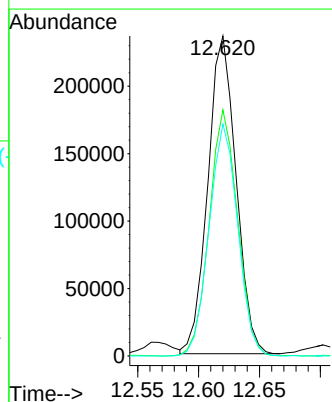
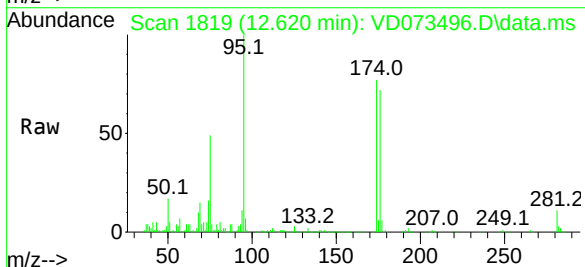
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

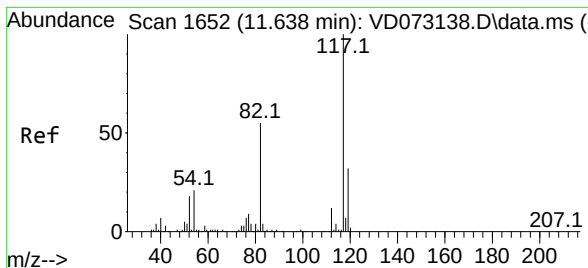
Tgt Ion: 43 Resp: 185731
Ion Ratio Lower Upper
43 100
58 3.9 25.3 75.9#



#62
4-Bromofluorobenzene
Concen: 66.438 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.000 min
Lab File: VD073496.D
Acq: 07 Jun 2022 13:09

Tgt Ion: 95 Resp: 379479
Ion Ratio Lower Upper
95 100
174 78.0 0.0 152.8
176 74.0 0.0 145.4

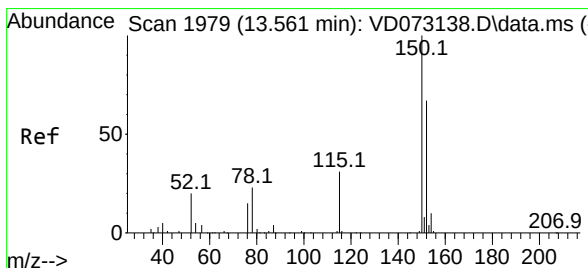
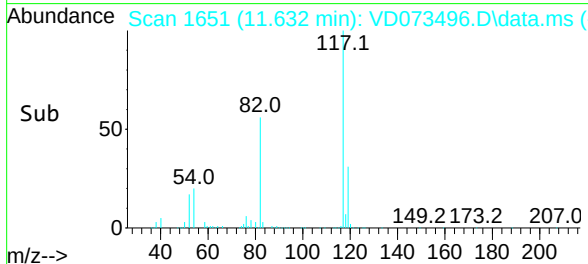
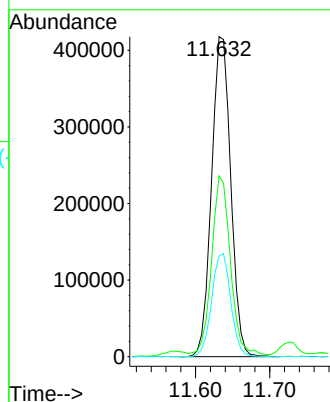
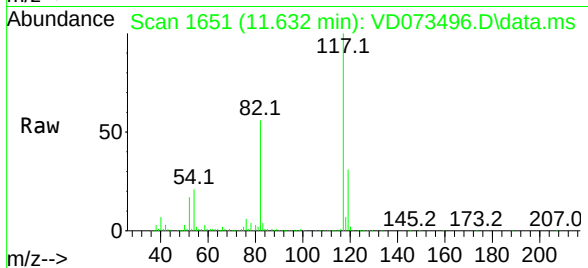




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.632 min Scan# 1651
Delta R.T. -0.006 min
Lab File: VD073496.D
Acq: 07 Jun 2022 13:09

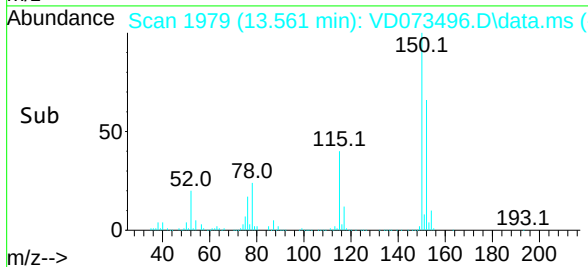
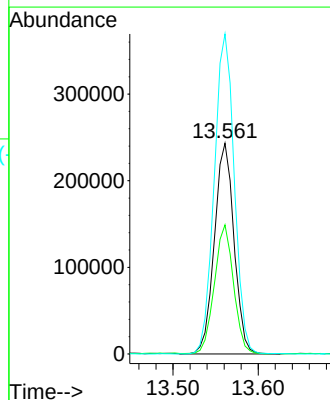
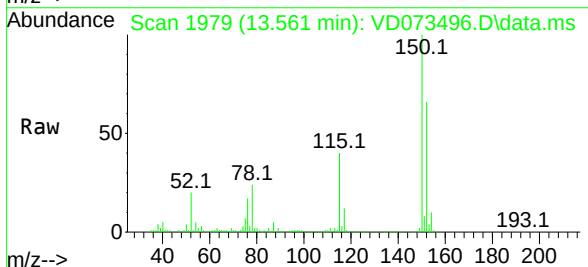
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

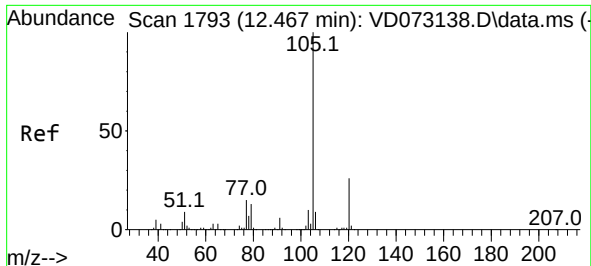
Tgt Ion:117 Resp: 750805
Ion Ratio Lower Upper
117 100
82 54.9 45.3 67.9
119 31.4 26.6 40.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.561 min Scan# 1979
Delta R.T. 0.000 min
Lab File: VD073496.D
Acq: 07 Jun 2022 13:09

Tgt Ion:152 Resp: 389749
Ion Ratio Lower Upper
152 100
115 59.4 31.3 93.8
150 155.1 0.0 348.6

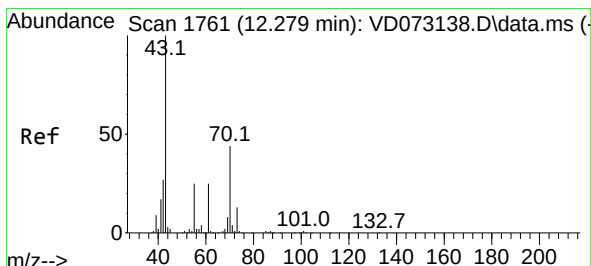
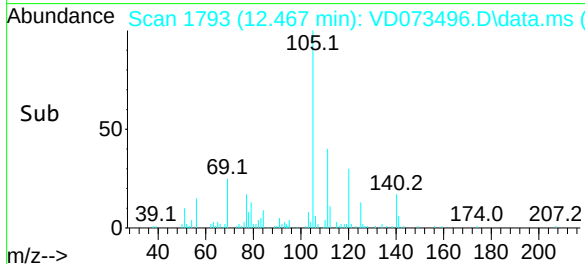
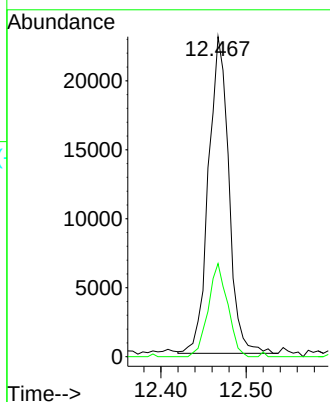
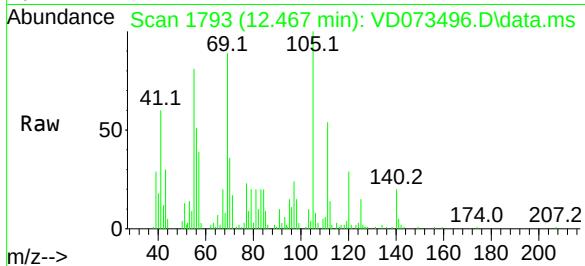




#73
Isopropylbenzene
Concen: 1.374 ug/l
RT: 12.467 min Scan# 11
Delta R.T. -0.000 min
Lab File: VD073496.D
Acq: 07 Jun 2022 13:09

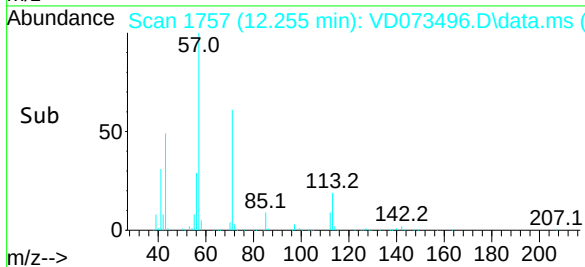
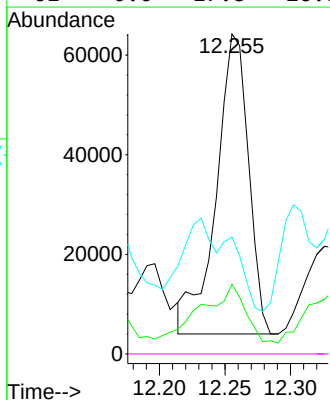
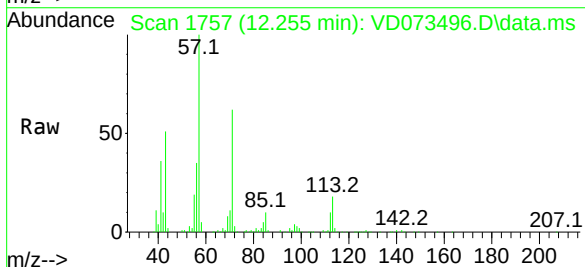
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

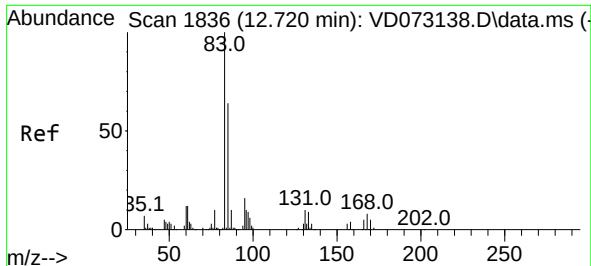
Tgt Ion:105 Resp: 38165
Ion Ratio Lower Upper
105 100
120 28.0 13.0 38.9



#74
N-ethyl acetate
Concen: 17.001 ug/l
RT: 12.255 min Scan# 1757
Delta R.T. -0.024 min
Lab File: VD073496.D
Acq: 07 Jun 2022 13:09

Tgt Ion: 43 Resp: 103046
Ion Ratio Lower Upper
43 100
70 27.0 31.3 46.9#
55 0.0 20.0 30.0#
61 0.0 17.8 26.8#

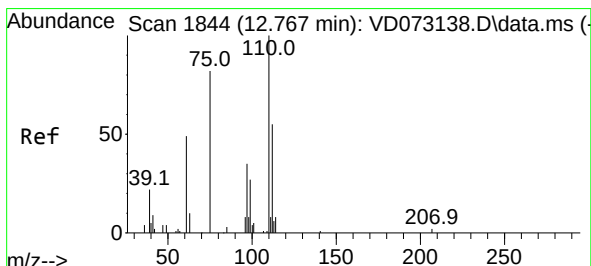
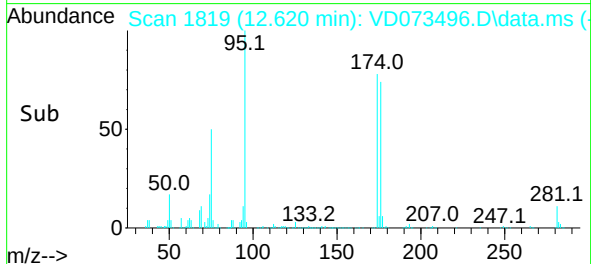
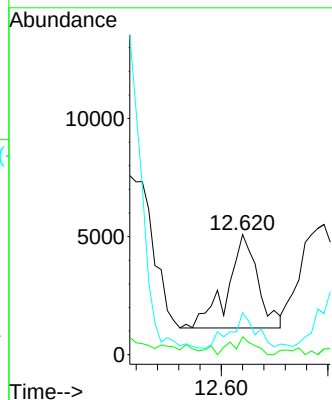
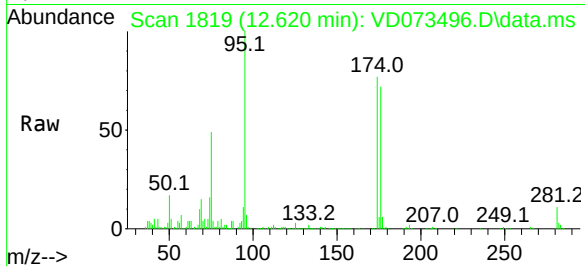




#75
1,1,2,2-Tetrachloroethane
Concen: 1.543 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.100 min
Lab File: VD073496.D
Acq: 07 Jun 2022 13:09

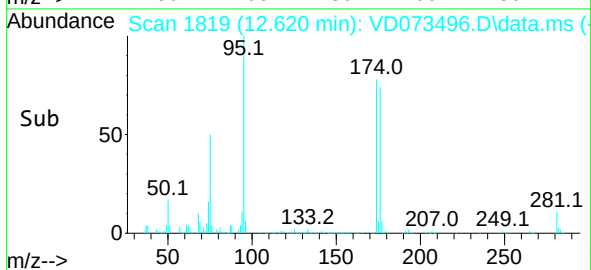
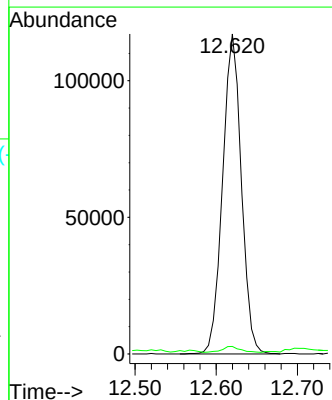
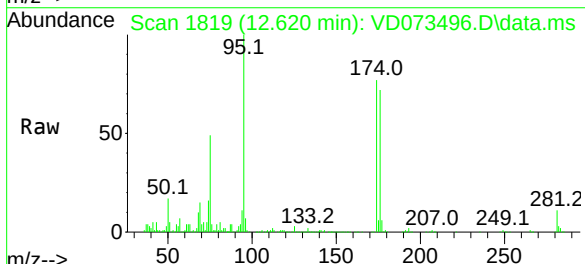
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

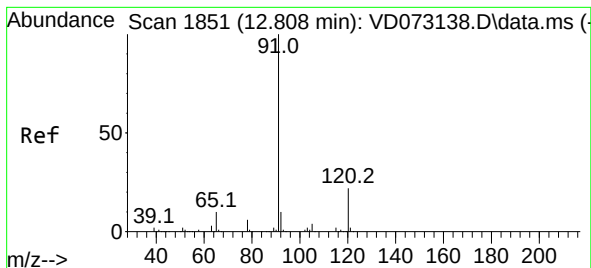
Tgt Ion: 83 Resp: 7905
Ion Ratio Lower Upper
83 100
131 13.4 5.0 14.9
85 33.5 32.6 98.0



#76
1,2,3-Trichloropropane
Concen: 49.198 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.147 min
Lab File: VD073496.D
Acq: 07 Jun 2022 13:09

Tgt Ion: 75 Resp: 188140
Ion Ratio Lower Upper
75 100
77 1.8 0.0 0.0#





#78

n-propylbenzene

Concen: 1.338 ug/l

RT: 12.808 min Scan# 1851

Delta R.T. 0.000 min

Lab File: VD073496.D

Acq: 07 Jun 2022 13:09

Instrument :

MSVOA_D

ClientSampleId :

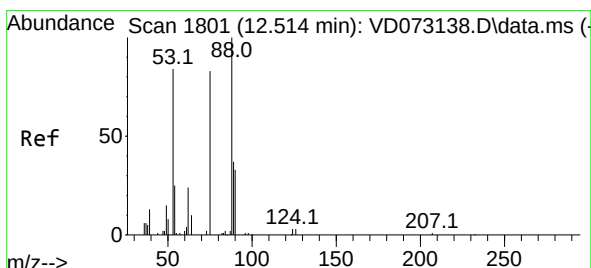
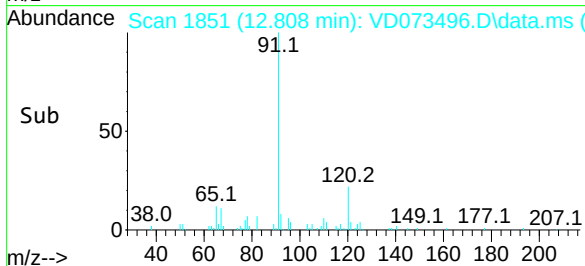
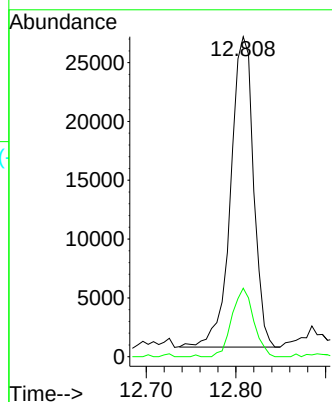
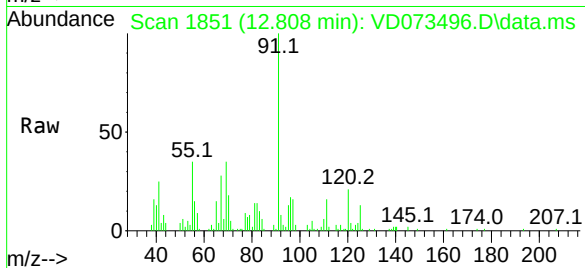
VIBLK

Tgt Ion: 91 Resp: 46676

Ion Ratio Lower Upper

91 100

120 21.0 10.9 32.9



#81

trans-1,4-Dichloro-2-butene

Concen: 118.110 ug/l

RT: 12.620 min Scan# 1819

Delta R.T. 0.106 min

Lab File: VD073496.D

Acq: 07 Jun 2022 13:09

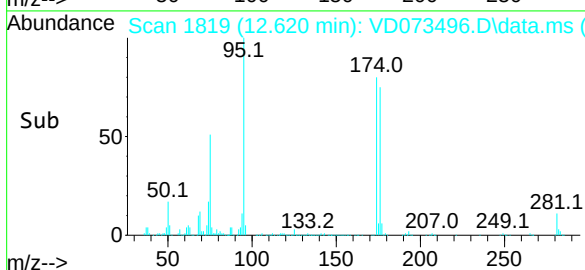
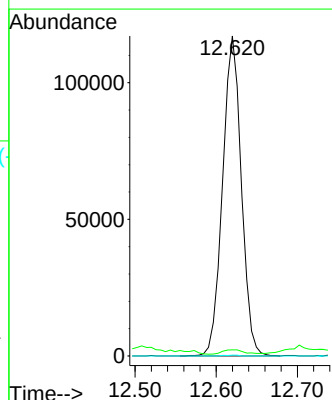
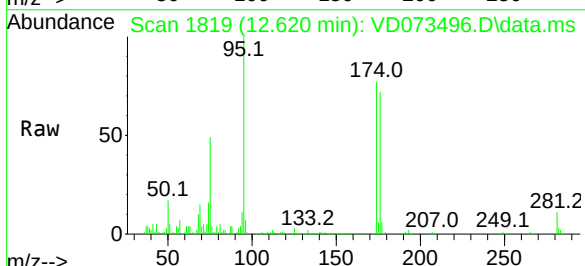
Tgt Ion: 75 Resp: 188140

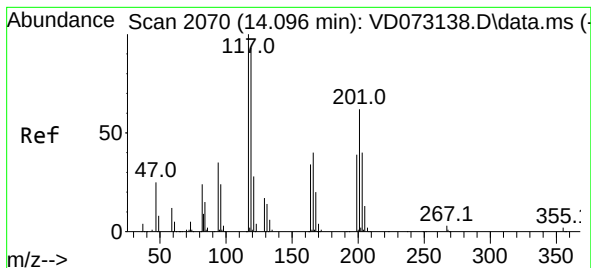
Ion Ratio Lower Upper

75 100

53 1.6 86.5 129.7#

89 0.2 33.9 50.9#





#90

Hexachloroethane

Concen: 1.037 ug/l

RT: 14.096 min Scan# 2070

Delta R.T. 0.000 min

Lab File: VD073496.D

Acq: 07 Jun 2022 13:09

Instrument :

MSVOA_D

ClientSampleId :

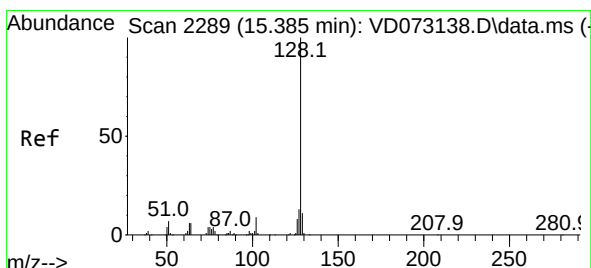
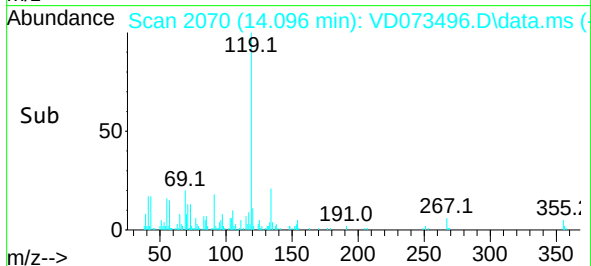
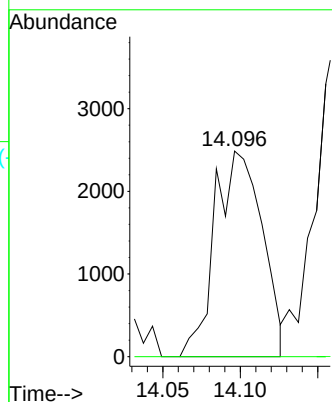
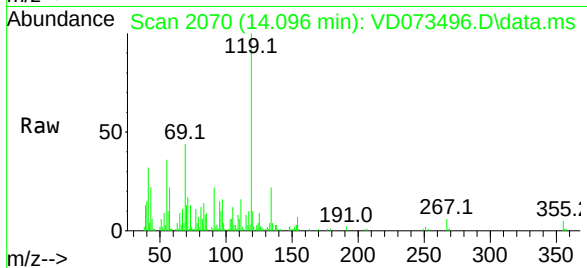
VIBLK

Tgt Ion:117 Resp: 5298

Ion Ratio Lower Upper

117 100

201 0.0 33.4 100.2#



#95

Naphthalene

Concen: 3.643 ug/l

RT: 15.384 min Scan# 2289

Delta R.T. -0.001 min

Lab File: VD073496.D

Acq: 07 Jun 2022 13:09

Tgt Ion:128 Resp: 1392

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 28.8 8.4 12.6#

