

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD052622\
 Data File : VD073394.D
 Acq On : 26 May 2022 18:01
 Operator : VA/SY
 Sample : N3051-01
 Misc : 5.07G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 72-11944

Quant Time: May 27 01:33:08 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	330579	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	584682	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.632	117	592943	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	230020	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	166281	45.514	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	91.020%
35) Dibromofluoromethane	7.908	113	189259	49.055	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	98.100%
50) Toluene-d8	10.332	98	726865	51.109	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	=	102.220%
62) 4-Bromofluorobenzene	12.620	95	257323	51.557	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	=	103.120%

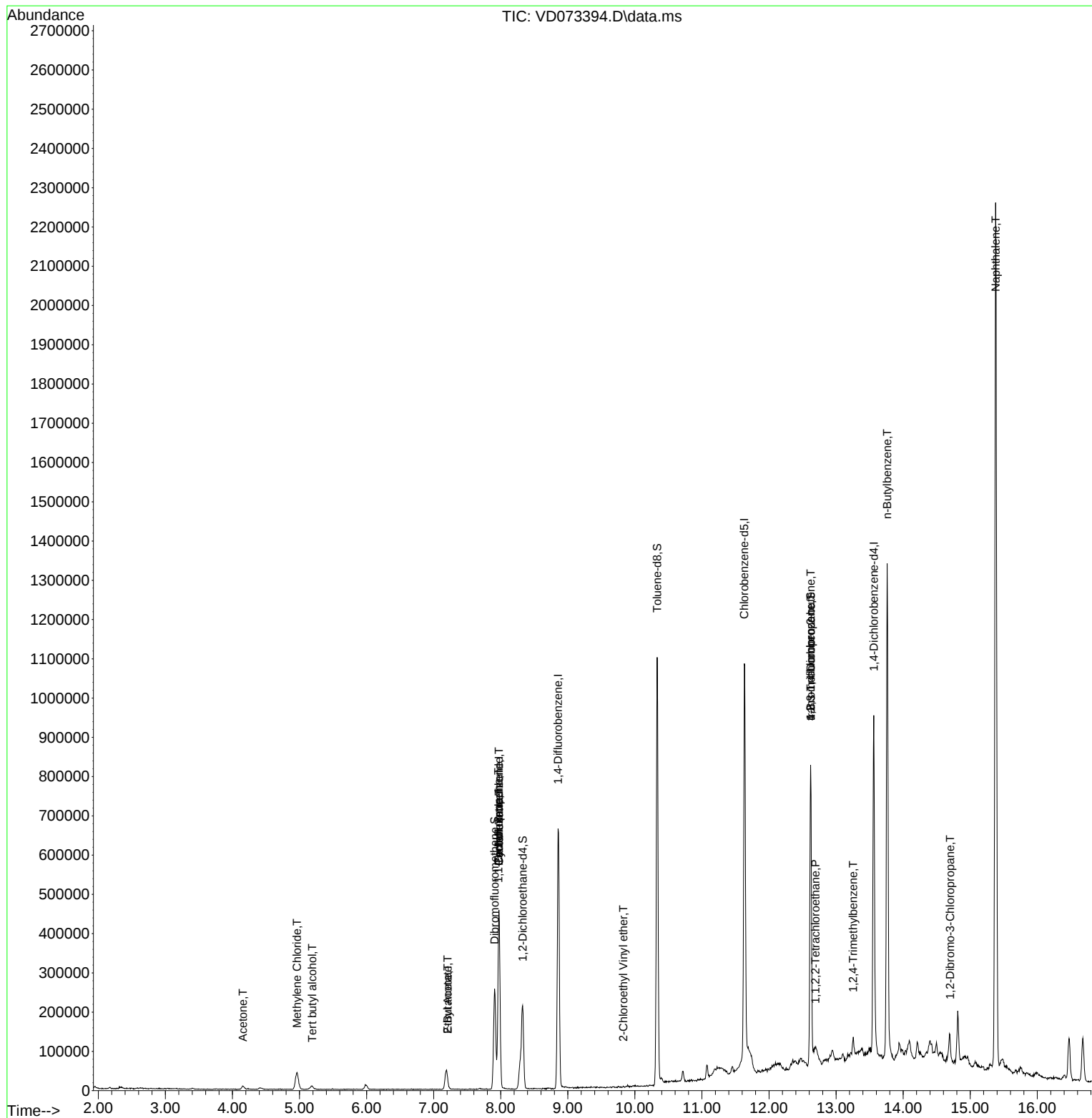
Target Compounds			Qvalue			
5) Bromomethane	2.762	94	156	Below Cal	#	1
11) Tert butyl alcohol	5.191	59	7862	13.870	ug/l #	74
16) Acetone	4.156	43	14242	22.506	ug/l #	88
20) Methylene Chloride	4.962	84	35320	5.224	ug/l #	83
25) 2-Butanone	7.209	43	4910	5.303	ug/l	95
31) Cyclohexane	7.973	56	7742	1.213	ug/l #	1
36) 1,1-Dichloropropene	7.967	75	26339	4.539	ug/l #	52
37) Ethyl Acetate	7.209	43	4910	2.142	ug/l #	72
38) Carbon Tetrachloride	7.973	117	33311	5.663	ug/l #	18
58) 2-Chloroethyl Vinyl ether	9.826	63	69	21.659	ug/l #	48
75) 1,1,2,2-Tetrachloroethane	12.691	83	7942	2.626	ug/l #	39
76) 1,2,3-Trichloropropane	12.620	75	128689	57.020	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.620	75	128689	136.888	ug/l #	8
84) 1,2,4-Trimethylbenzene	13.255	105	27218	1.983	ug/l	96
89) n-Butylbenzene	13.761	91	104868	7.553	ug/l #	45
92) 1,2-Dibromo-3-Chloropr...	14.702	75	730	1.576	ug/l	83
95) Naphthalene	15.379	128	1929333	241.700	ug/l	99

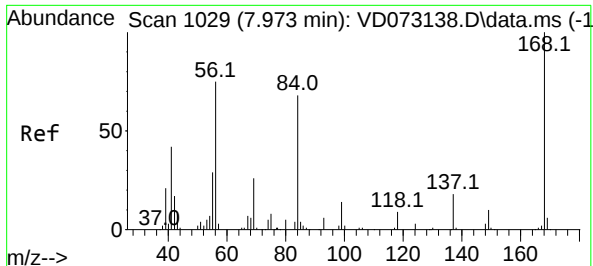
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

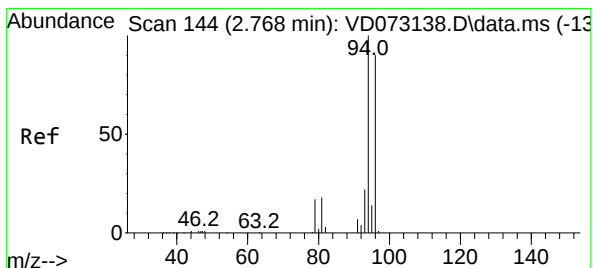
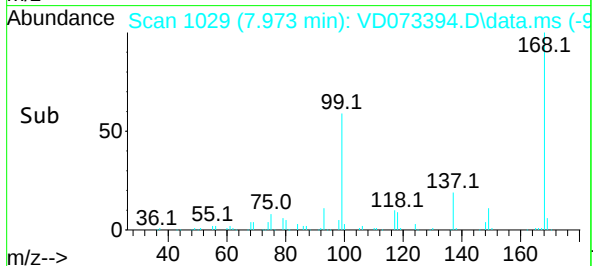
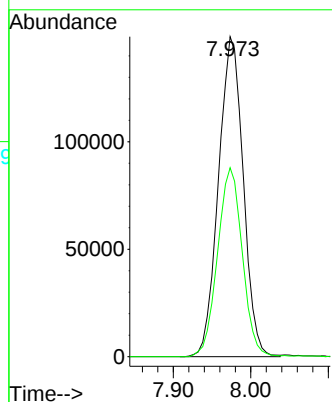
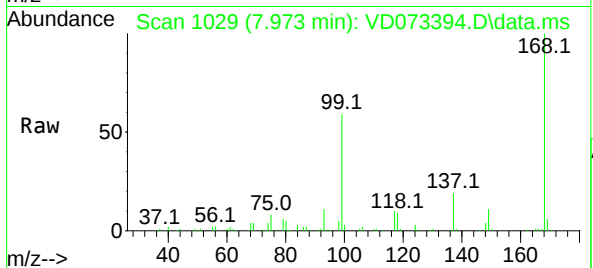




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. 0.000 min
Lab File: VD073394.D
Acq: 26 May 2022 18:01

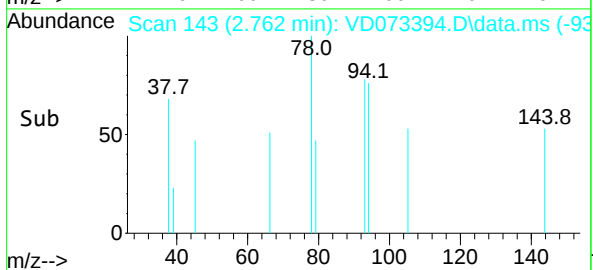
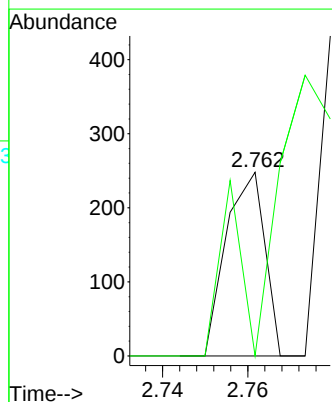
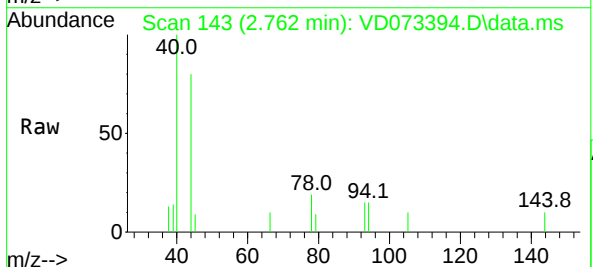
Instrument :
MSVOA_D
ClientSampleId :
72-11944

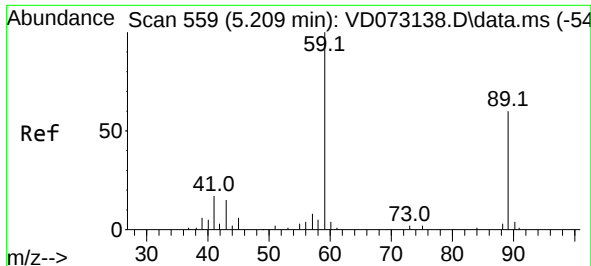
Tgt Ion:168 Resp: 330579
Ion Ratio Lower Upper
168 100
99 59.1 49.8 74.6



#5
Bromomethane
Concen: Below Cal
RT: 2.762 min Scan# 143
Delta R.T. -0.006 min
Lab File: VD073394.D
Acq: 26 May 2022 18:01

Tgt Ion: 94 Resp: 156
Ion Ratio Lower Upper
94 100
96 0.0 77.6 116.4#





#11

Tert butyl alcohol

Concen: 13.870 ug/l

RT: 5.191 min Scan# 51

Delta R.T. -0.018 min

Lab File: VD073394.D

Acq: 26 May 2022 18:01

Instrument :

MSVOA_D

ClientSampleId :

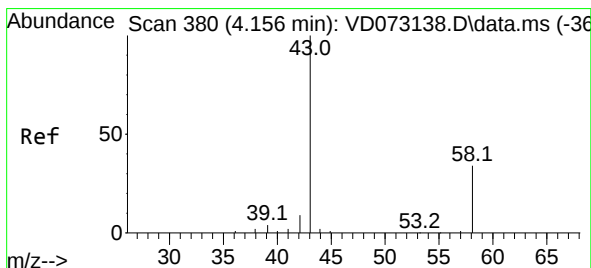
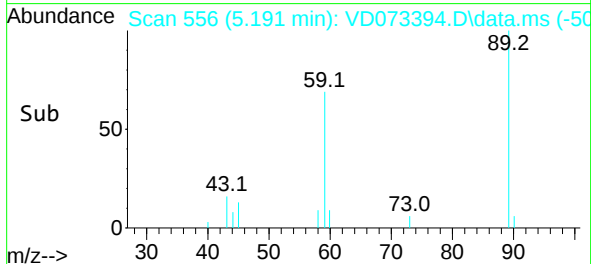
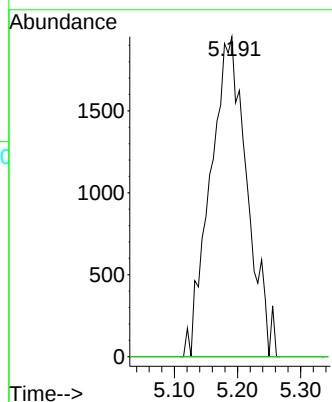
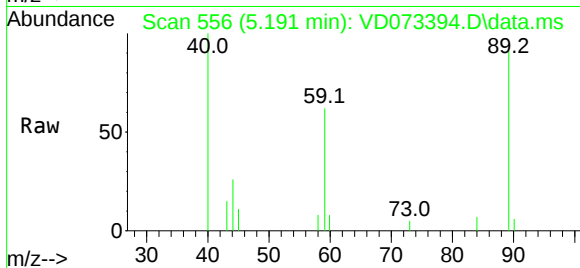
72-11944

Tgt Ion: 59 Resp: 7862

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



#16

Acetone

Concen: 22.506 ug/l

RT: 4.156 min Scan# 380

Delta R.T. -0.000 min

Lab File: VD073394.D

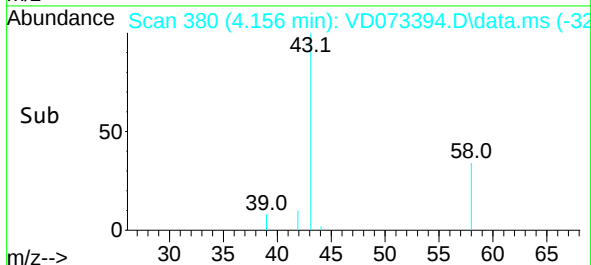
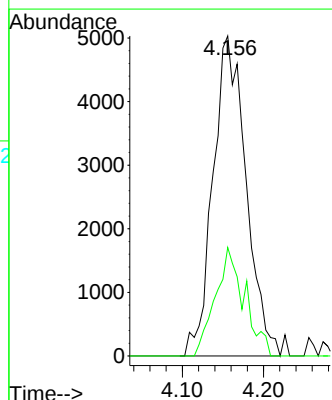
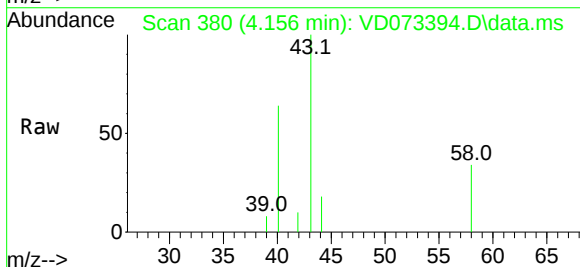
Acq: 26 May 2022 18:01

Tgt Ion: 43 Resp: 14242

Ion Ratio Lower Upper

43 100

58 33.9 22.1 33.1#

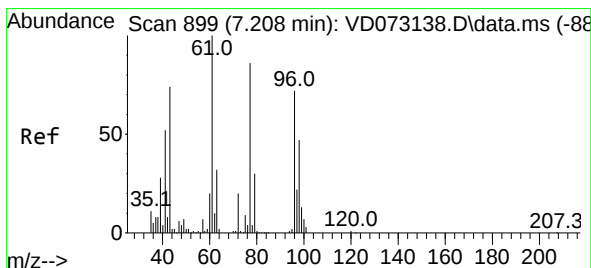
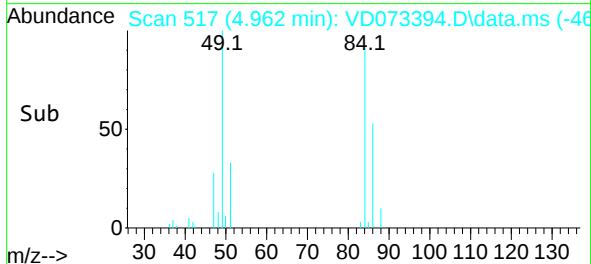
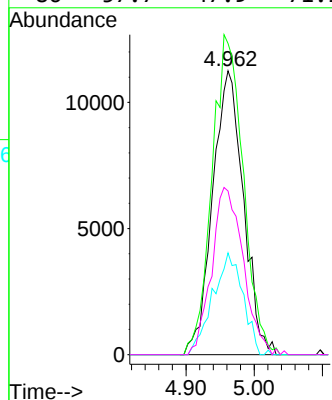
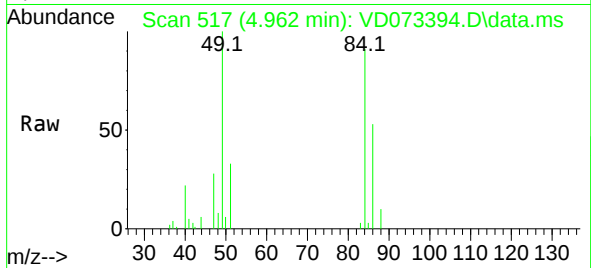




#20
Methylene Chloride
Concen: 5.224 ug/l
RT: 4.962 min Scan# 517
Delta R.T. -0.000 min
Lab File: VD073394.D
Acq: 26 May 2022 18:01

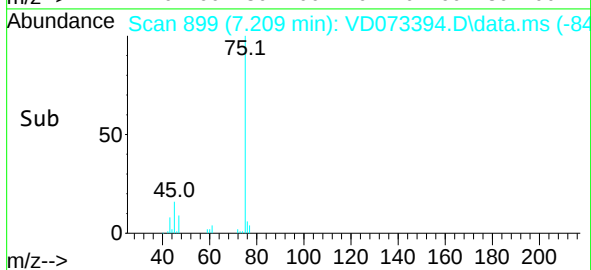
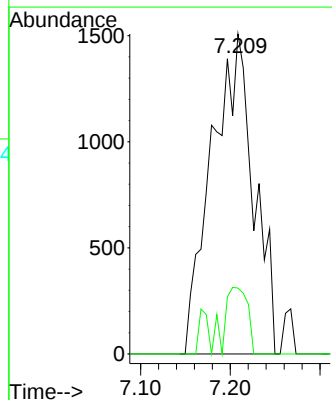
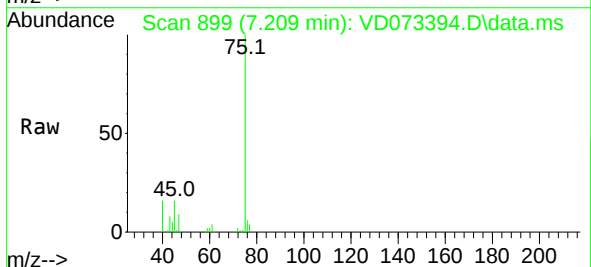
Instrument :
MSVOA_D
ClientSampleId :
72-11944

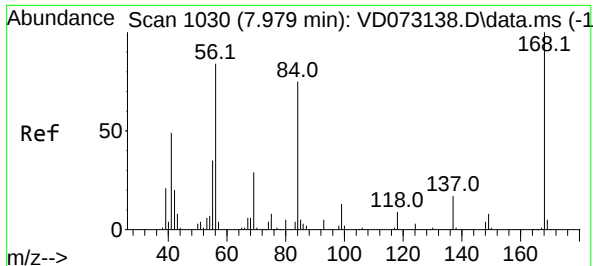
Tgt Ion: 84 Resp: 35320
Ion Ratio Lower Upper
84 100
49 109.7 112.8 169.2#
51 35.8 32.6 48.8
86 57.7 47.9 71.9



#25
2-Butanone
Concen: 5.303 ug/l
RT: 7.209 min Scan# 899
Delta R.T. 0.001 min
Lab File: VD073394.D
Acq: 26 May 2022 18:01

Tgt Ion: 43 Resp: 4910
Ion Ratio Lower Upper
43 100
72 20.6 18.6 27.8





#31

Cyclohexane

Concen: 1.213 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.006 min

Lab File: VD073394.D

Acq: 26 May 2022 18:01

Instrument :

MSVOA_D

ClientSampleId :

72-11944

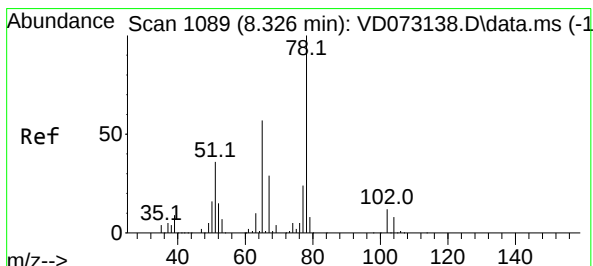
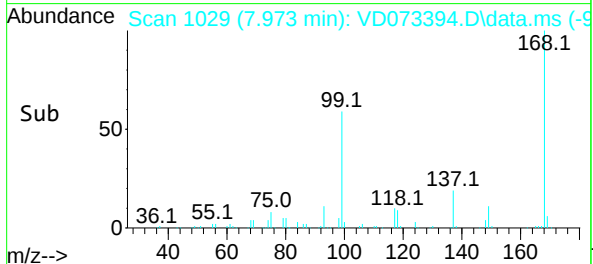
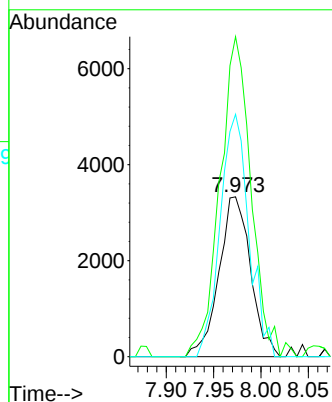
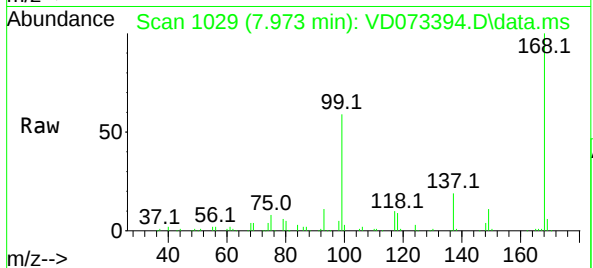
Tgt Ion: 56 Resp: 7742

Ion Ratio Lower Upper

56 100

69 200.3 25.4 38.2#

84 151.7 63.0 94.4#



#33

1,2-Dichloroethane-d4

Concen: 45.514 ug/l

RT: 8.326 min Scan# 1089

Delta R.T. 0.000 min

Lab File: VD073394.D

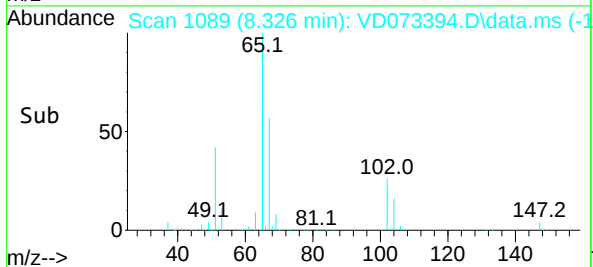
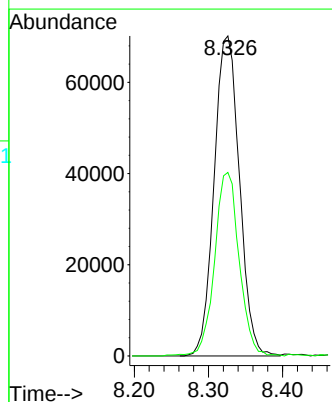
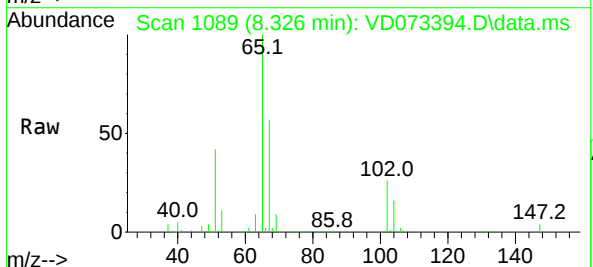
Acq: 26 May 2022 18:01

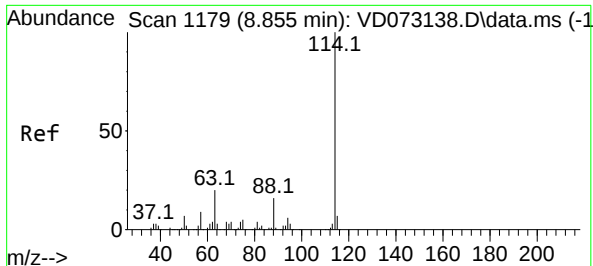
Tgt Ion: 65 Resp: 166281

Ion Ratio Lower Upper

65 100

67 55.8 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: VD073394.D

Acq: 26 May 2022 18:01

Instrument :

MSVOA_D

ClientSampleId :

72-11944

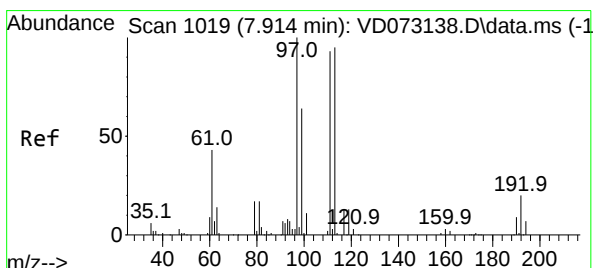
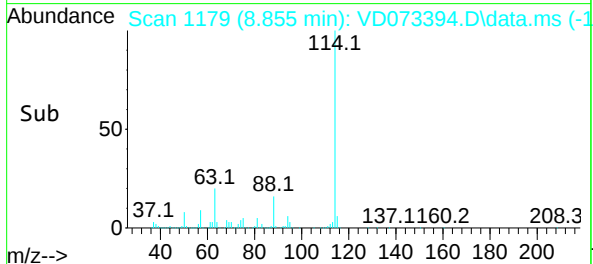
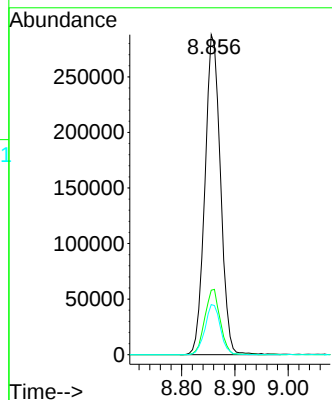
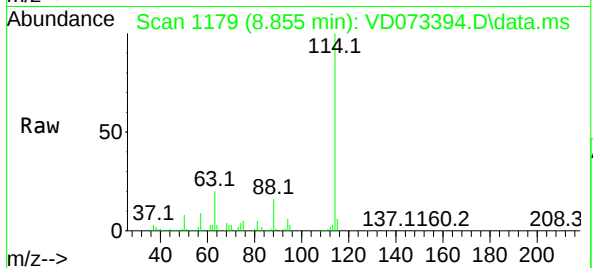
Tgt Ion:114 Resp: 584682

Ion Ratio Lower Upper

114 100

63 20.2 0.0 46.6

88 15.7 0.0 33.2



#35

Dibromofluoromethane

Concen: 49.055 ug/l

RT: 7.908 min Scan# 1018

Delta R.T. -0.006 min

Lab File: VD073394.D

Acq: 26 May 2022 18:01

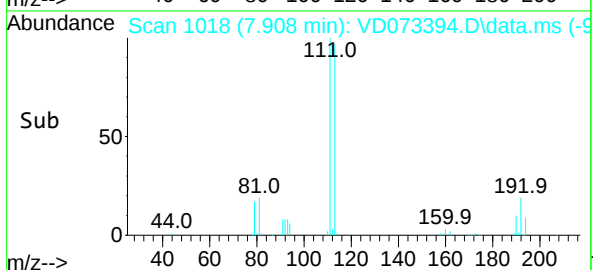
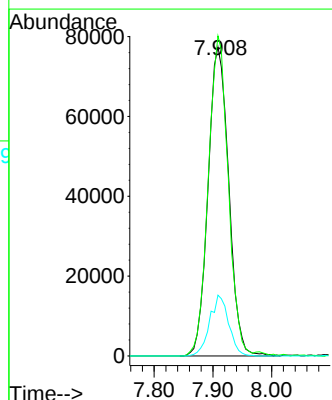
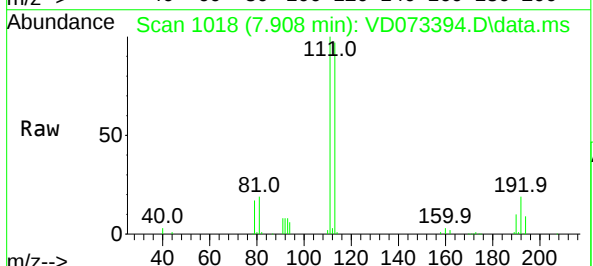
Tgt Ion:113 Resp: 189259

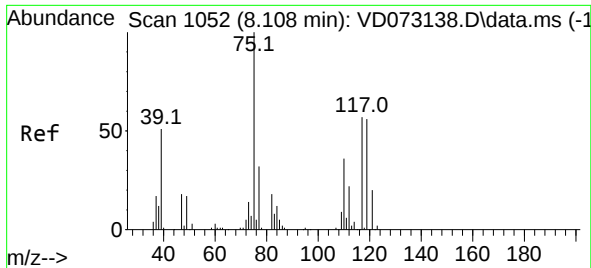
Ion Ratio Lower Upper

113 100

111 99.8 83.8 125.6

192 18.1 14.6 21.8





#36

1,1-Dichloropropene

Concen: 4.539 ug/l

RT: 7.967 min Scan# 1

Delta R.T. -0.141 min

Lab File: VD073394.D

Acq: 26 May 2022 18:01

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ClientSampleId :

72-11944

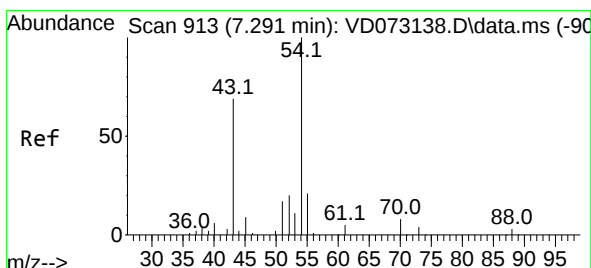
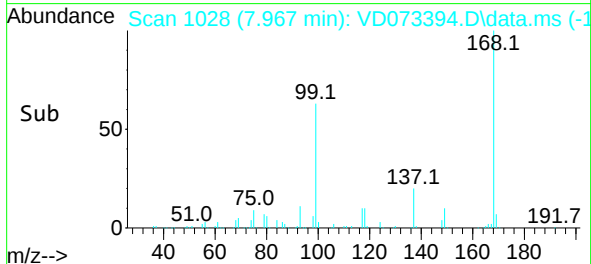
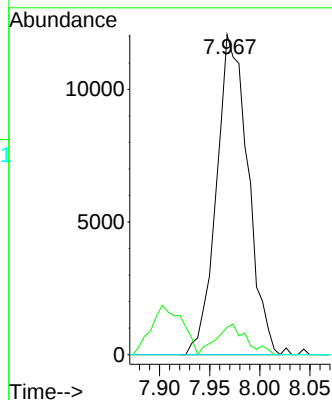
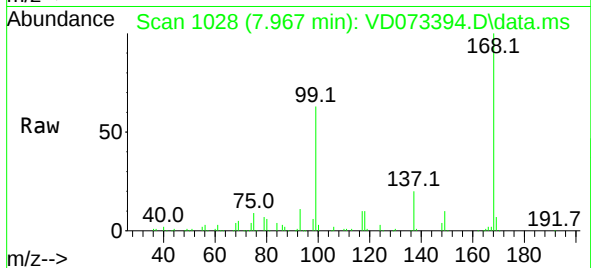
Tgt Ion: 75 Resp: 26339

Ion Ratio Lower Upper

75 100

110 9.1 16.4 49.1#

77 0.0 24.2 36.2#



#37

Ethyl Acetate

Concen: 2.142 ug/l

RT: 7.209 min Scan# 899

Delta R.T. -0.082 min

Lab File: VD073394.D

Acq: 26 May 2022 18:01

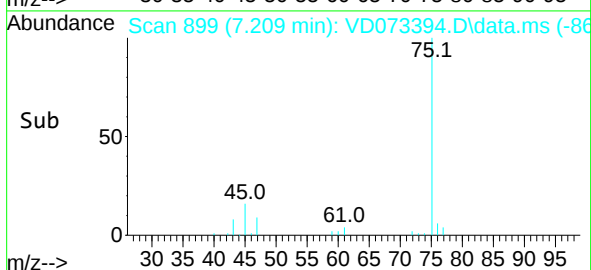
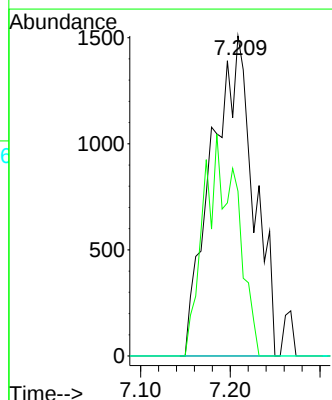
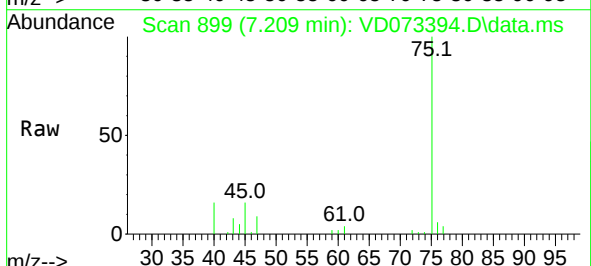
Tgt Ion: 43 Resp: 4910

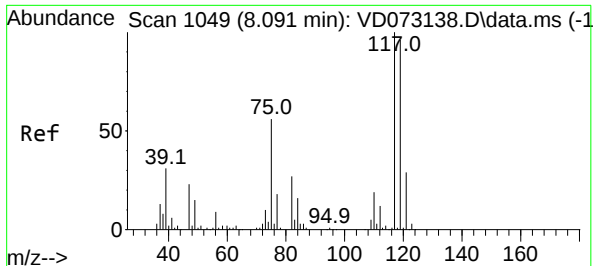
Ion Ratio Lower Upper

43 100

61 0.0 9.8 14.8#

70 0.0 6.9 10.3#

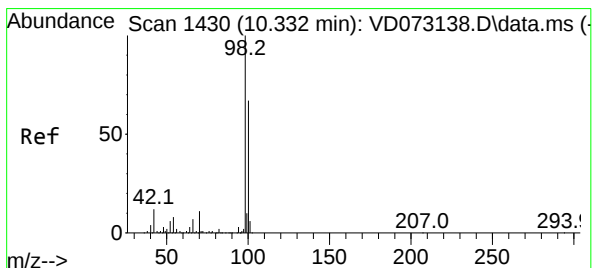
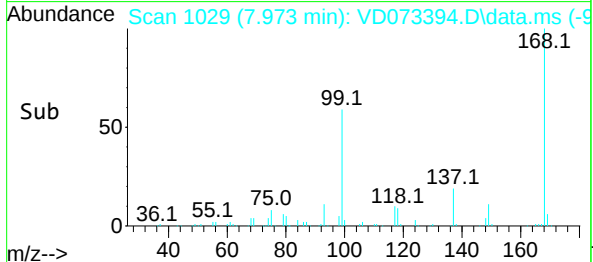
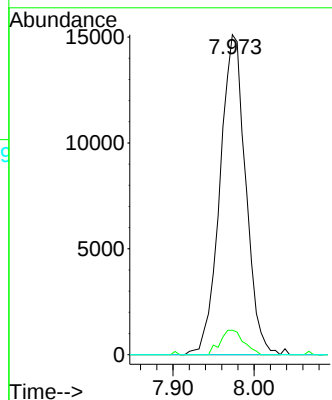
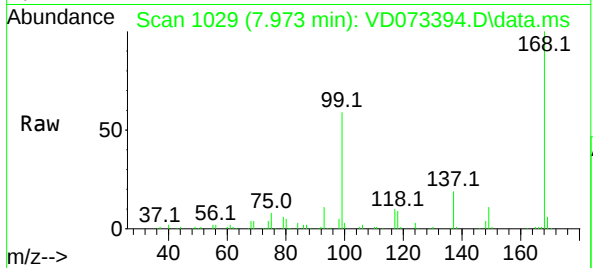




#38
Carbon Tetrachloride
Concen: 5.663 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.118 min
Lab File: VD073394.D
Acq: 26 May 2022 18:01

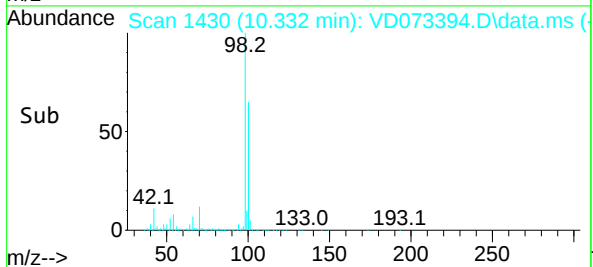
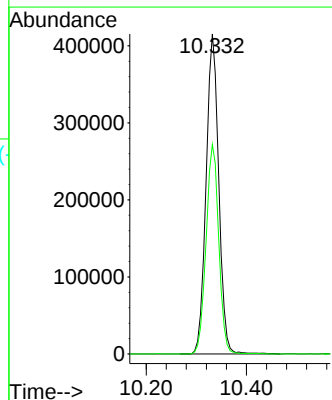
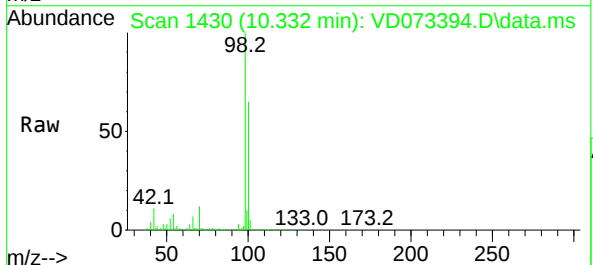
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72-11944

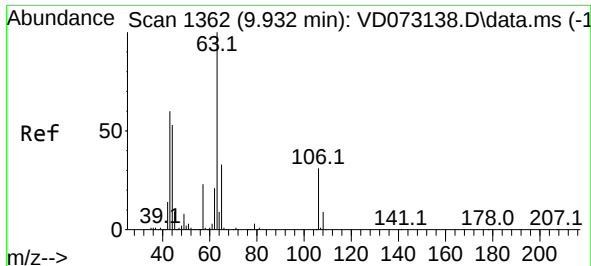
Tgt Ion:117 Resp: 33311
Ion Ratio Lower Upper
117 100
119 7.6 75.8 113.6#
121 0.0 24.5 36.7#



#50
Toluene-d8
Concen: 51.109 ug/l
RT: 10.332 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VD073394.D
Acq: 26 May 2022 18:01

Tgt Ion: 98 Resp: 726865
Ion Ratio Lower Upper
98 100
100 65.6 52.4 78.6

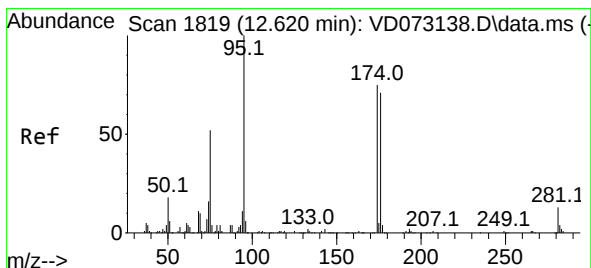
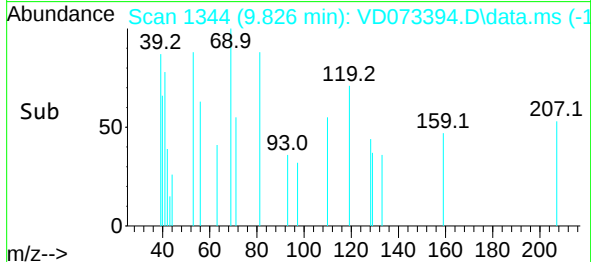
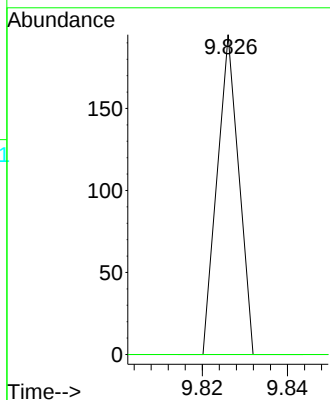
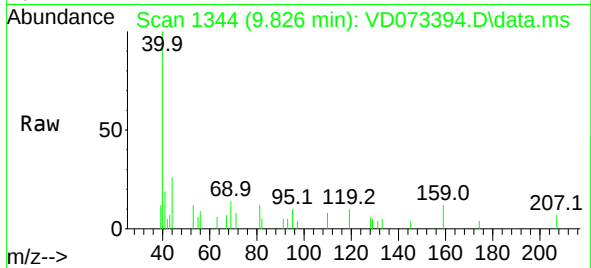




#58
2-Chloroethyl Vinyl ether
Concen: 21.659 ug/l
RT: 9.826 min Scan# 111
Delta R.T. -0.106 min
Lab File: VD073394.D
Acq: 26 May 2022 18:01

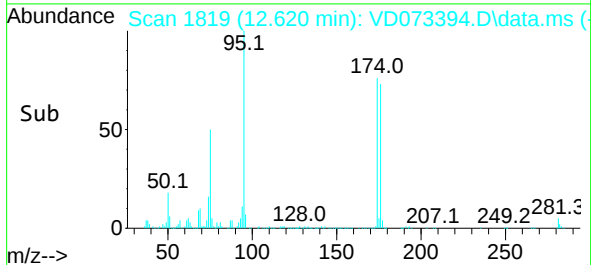
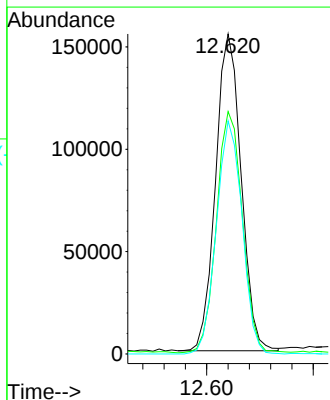
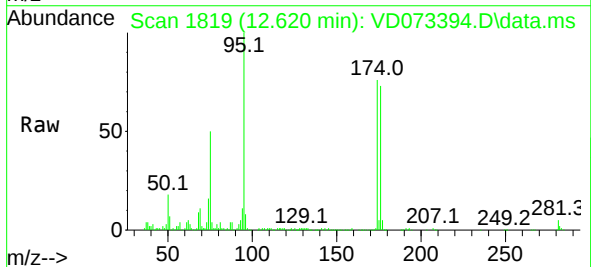
Instrument :
MSVOA_D
ClientSampleId :
72-11944

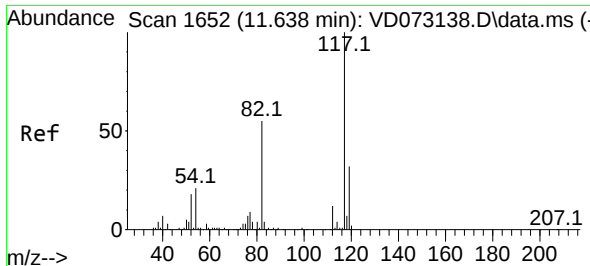
Tgt Ion: 63 Resp: 69
Ion Ratio Lower Upper
63 100
106 0.0 21.4 32.0#



#62
4-Bromofluorobenzene
Concen: 51.557 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.000 min
Lab File: VD073394.D
Acq: 26 May 2022 18:01

Tgt Ion: 95 Resp: 257323
Ion Ratio Lower Upper
95 100
174 77.3 0.0 152.8
176 73.8 0.0 145.4

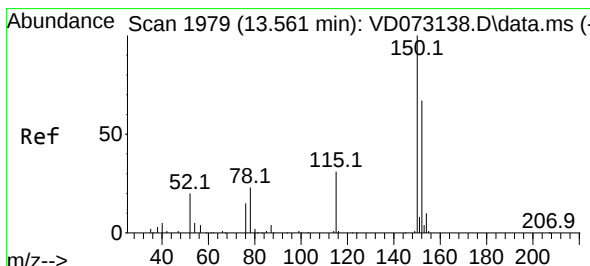
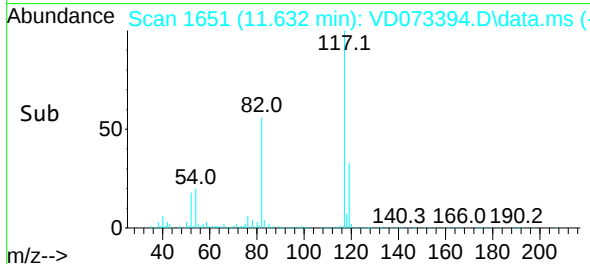
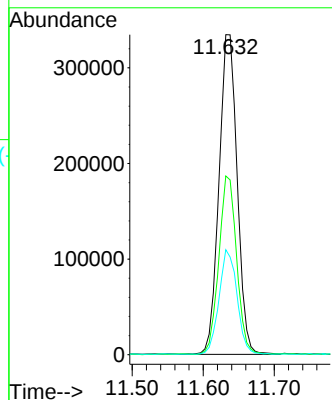
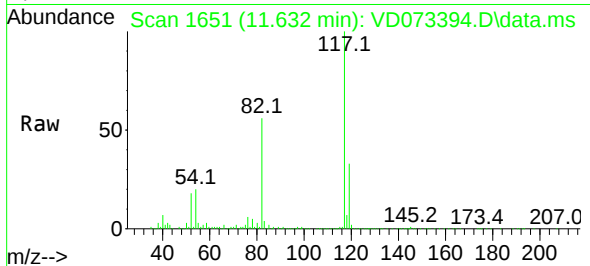




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.632 min Scan# 11
Delta R.T. -0.006 min
Lab File: VD073394.D
Acq: 26 May 2022 18:01

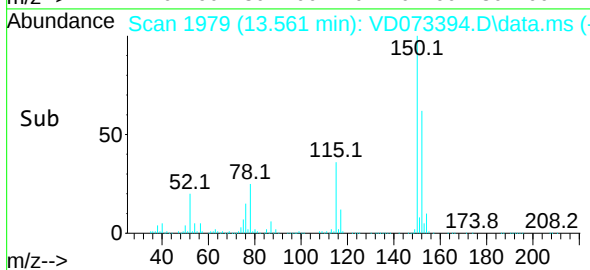
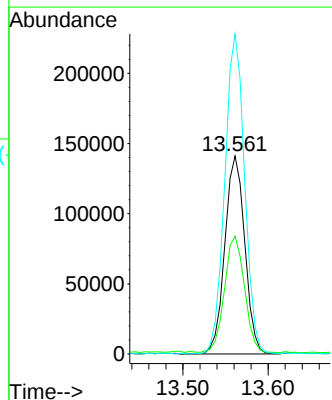
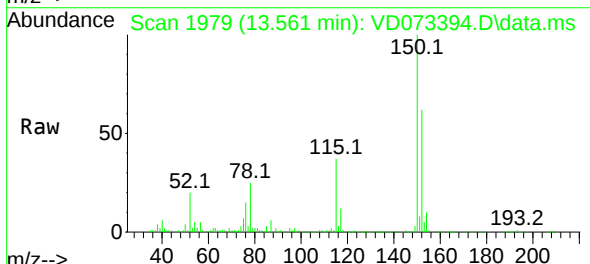
Instrument :
MSVOA_D
ClientSampleId :
72-11944

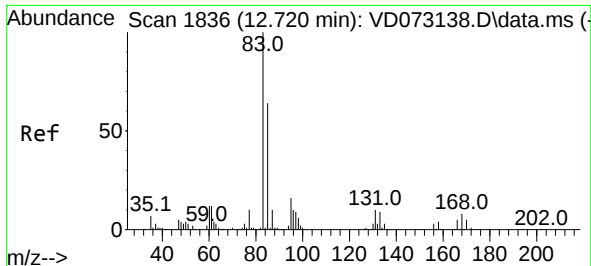
Tgt Ion:117 Resp: 592943
Ion Ratio Lower Upper
117 100
82 55.7 45.3 67.9
119 32.7 26.6 40.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.561 min Scan# 1979
Delta R.T. 0.000 min
Lab File: VD073394.D
Acq: 26 May 2022 18:01

Tgt Ion:152 Resp: 230020
Ion Ratio Lower Upper
152 100
115 58.8 31.3 93.8
150 160.3 0.0 348.6

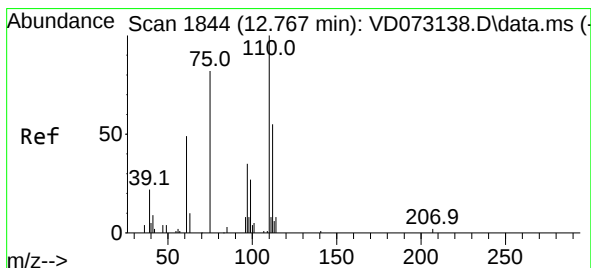
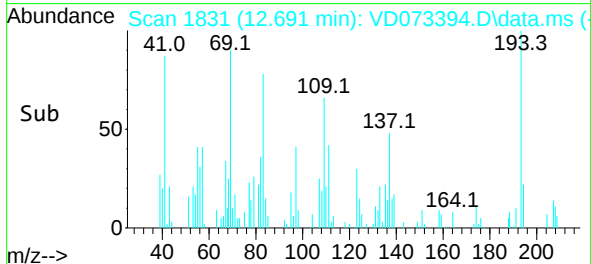
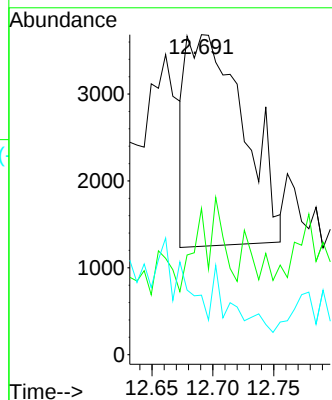
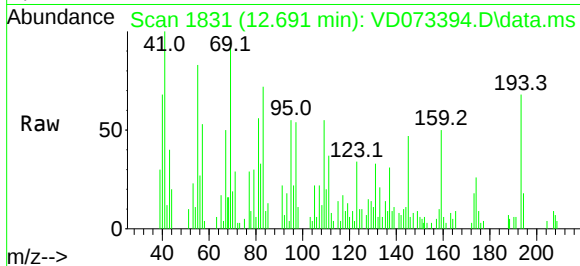




#75
 1,1,2,2-Tetrachloroethane
 Concen: 2.626 ug/l
 RT: 12.691 min Scan# 1819
 Delta R.T. -0.029 min
 Lab File: VD073394.D
 Acq: 26 May 2022 18:01

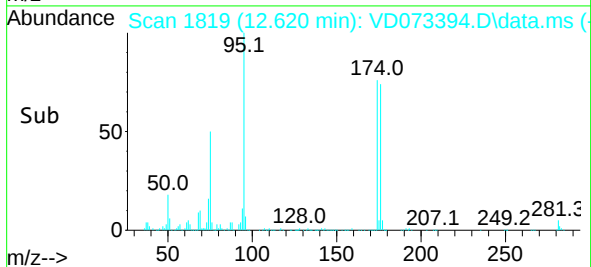
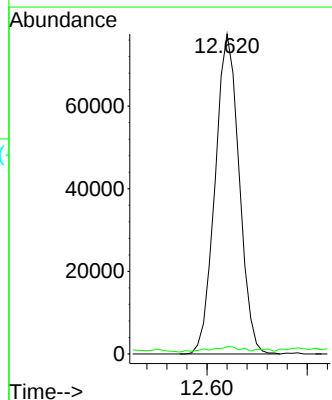
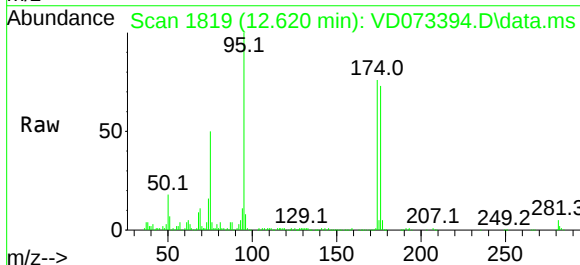
Instrument :
 MSVOA_D
 ClientSampleId :
 72-11944

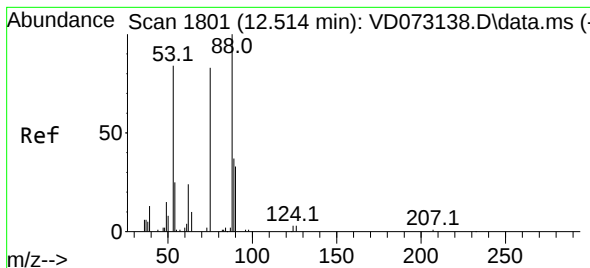
Tgt Ion: 83 Resp: 7942
 Ion Ratio Lower Upper
 83 100
 131 9.3 5.0 14.9
 85 9.8 32.6 98.0#



#76
 1,2,3-Trichloropropane
 Concen: 57.020 ug/l
 RT: 12.620 min Scan# 1819
 Delta R.T. -0.147 min
 Lab File: VD073394.D
 Acq: 26 May 2022 18:01

Tgt Ion: 75 Resp: 128689
 Ion Ratio Lower Upper
 75 100
 77 2.2 0.0 0.0#

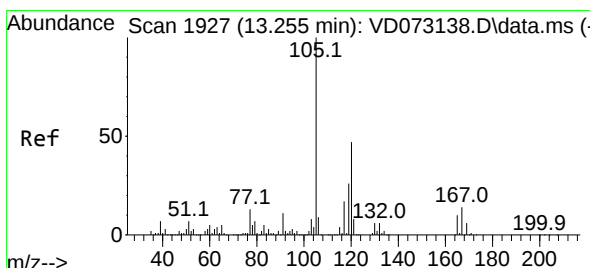
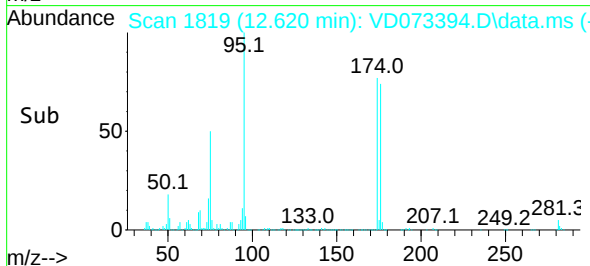
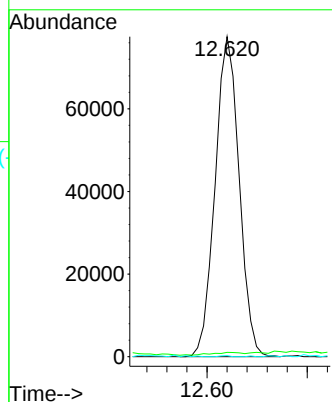
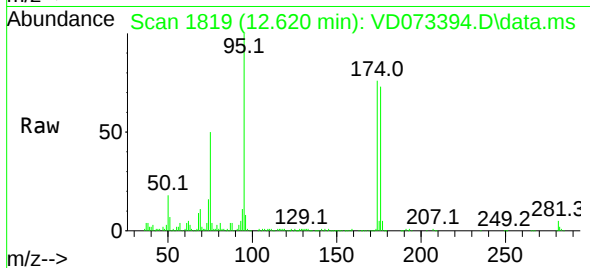




#81
 trans-1,4-Dichloro-2-butene
 Concen: 136.888 ug/l
 RT: 12.620 min Scan# 1819
 Delta R.T. 0.106 min
 Lab File: VD073394.D
 Acq: 26 May 2022 18:01

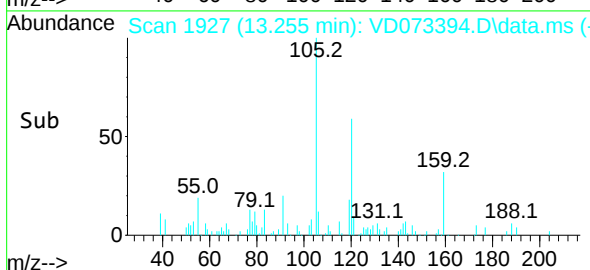
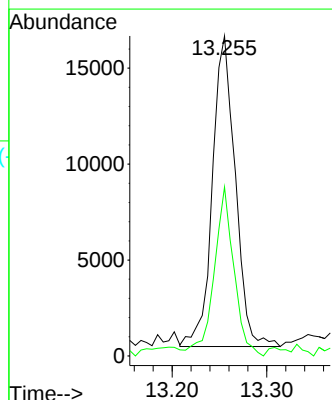
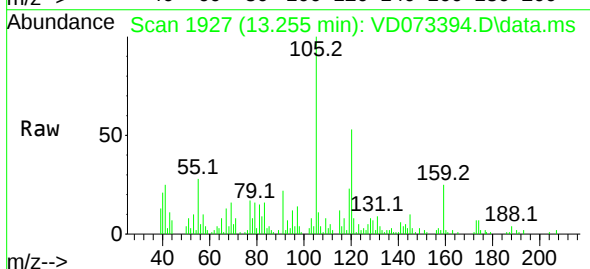
Instrument :
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 ClientSampleId :
 72-11944

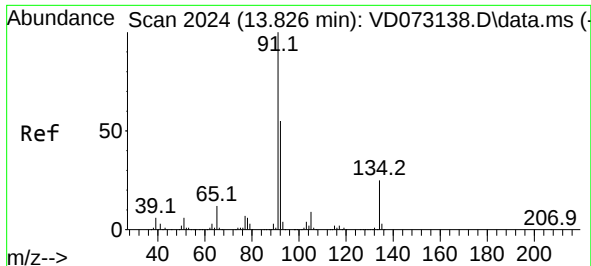
Tgt Ion: 75 Resp: 128689
 Ion Ratio Lower Upper
 75 100
 53 1.2 86.5 129.7#
 89 0.1 33.9 50.9#



#84
 1,2,4-Trimethylbenzene
 Concen: 1.983 ug/l
 RT: 13.255 min Scan# 1927
 Delta R.T. 0.000 min
 Lab File: VD073394.D
 Acq: 26 May 2022 18:01

Tgt Ion: 105 Resp: 27218
 Ion Ratio Lower Upper
 105 100
 120 47.2 22.3 66.8

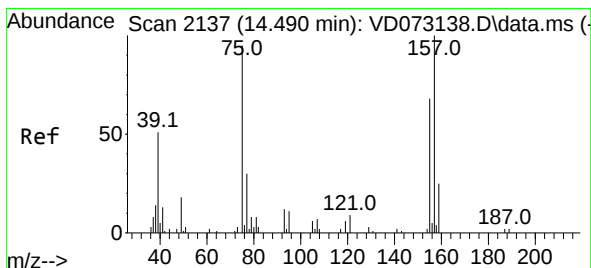
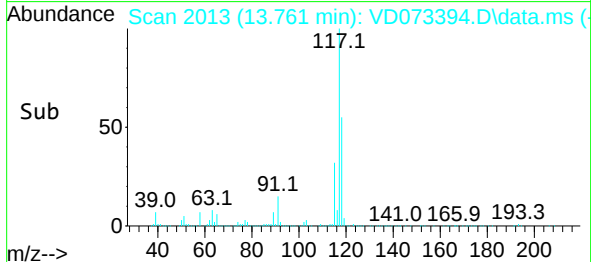
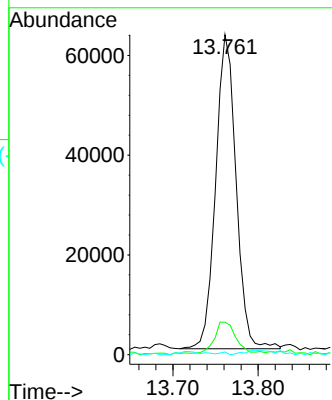
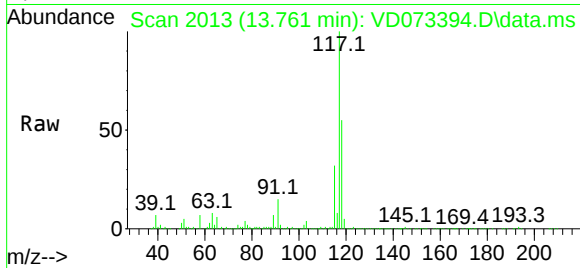




#89
n-Butylbenzene
Concen: 7.553 ug/l
RT: 13.761 min Scan# 20
Delta R.T. -0.065 min
Lab File: VD073394.D
Acq: 26 May 2022 18:01

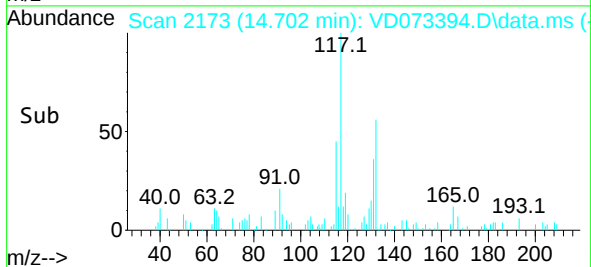
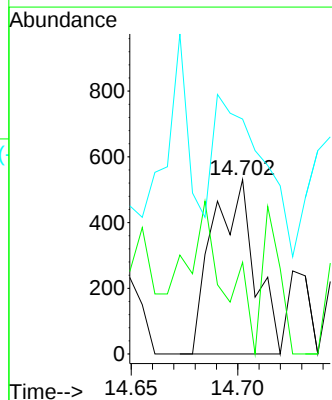
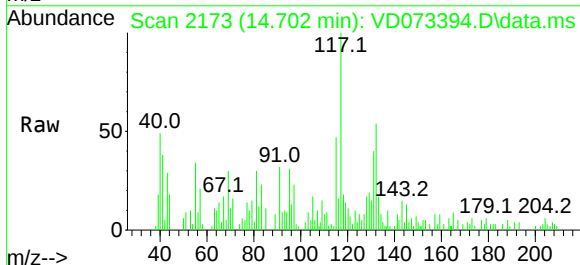
Instrument :
MSVOA_D
ClientSampleId :
72-11944

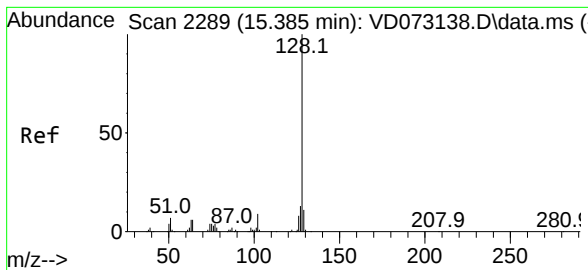
Tgt Ion: 91 Resp: 104868
Ion Ratio Lower Upper
91 100
92 11.8 26.6 79.8#
134 0.3 12.3 36.9#



#92
1,2-Dibromo-3-Chloropropane
Concen: 1.576 ug/l
RT: 14.702 min Scan# 2173
Delta R.T. 0.212 min
Lab File: VD073394.D
Acq: 26 May 2022 18:01

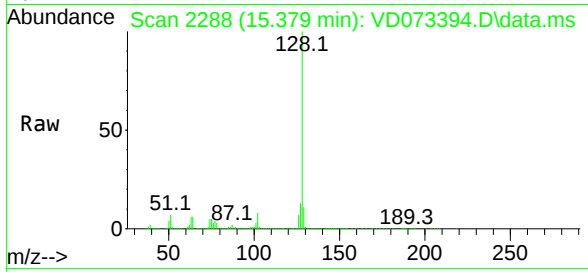
Tgt Ion: 75 Resp: 730
Ion Ratio Lower Upper
75 100
155 49.6 36.8 110.3
157 104.8 48.4 145.0





#95
Naphthalene
Concen: 241.700 ug/l
RT: 15.379 min Scan# 21
Delta R.T. -0.006 min
Lab File: VD073394.D
Acq: 26 May 2022 18:01

Instrument :
MSVOA_D
ClientSampleId :
72-11944



Tgt Ion:128 Resp: 1929333
Ion Ratio Lower Upper
128 100
127 12.9 10.3 15.5
129 11.0 8.4 12.6

