

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD052322\
 Data File : VD073280.D
 Acq On : 23 May 2022 13:50
 Operator : VA/SY
 Sample : N2816-24
 Misc : 6.11G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 P007-SS016-0006-01

Quant Time: May 24 03:26:24 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)

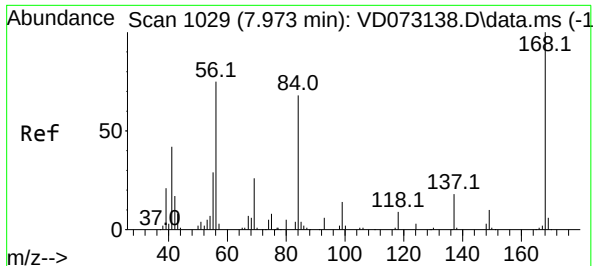
Internal Standards						
1) Pentafluorobenzene	7.973	168	355014	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	645063	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.632	117	621944	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	224665	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	197958	50.456	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 100.920%	
35) Dibromofluoromethane	7.909	113	210633	49.484	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 98.960%	
50) Toluene-d8	10.332	98	756890	48.238	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 96.480%	
62) 4-Bromofluorobenzene	12.620	95	272203	49.433	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 98.860%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.779	94	824	Below Cal	#	35
11) Tert butyl alcohol	5.191	59	17885	29.381	ug/l #	75
16) Acetone	4.168	43	5746	8.455	ug/l	100
20) Methylene Chloride	4.950	84	2204	Below Cal	#	79
25) 2-Butanone	7.185	43	2977	2.994	ug/l #	52
31) Cyclohexane	7.973	56	7742	1.129	ug/l #	1
36) 1,1-Dichloropropene	7.973	75	30929	4.831	ug/l #	52
37) Ethyl Acetate	7.185	43	2977	1.177	ug/l #	1
38) Carbon Tetrachloride	7.973	117	37507	5.780	ug/l #	18
76) 1,2,3-Trichloropropane	12.620	75	138430	62.798	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.620	75	138430	150.760	ug/l #	7
95) Naphthalene	15.390	128	829	3.646	ug/l #	70

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

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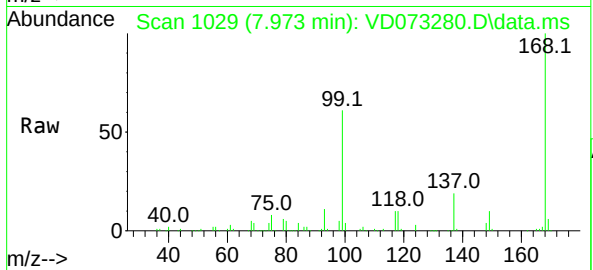
The chromatogram displays the abundance of various compounds over time. The x-axis represents time in minutes, ranging from 2.00 to 16.00. The y-axis represents abundance, ranging from 0 to 1,350,000. The following table summarizes the labeled peaks:

Compound	Approximate Retention Time (min)	Approximate Abundance
Acetone, T	4.00	100,000
Tert butyl alcohol, T	5.00	20,000
Ethyl acetate, T	7.00	50,000
1,2-Dichloroethane-d4, S	8.00	250,000
1,4-Difluorobenzene, I	8.50	700,000
Toluene-d9, S	10.50	1,100,000
Chlorobenzene-d5, I	11.50	1,050,000
1,4-Dichlorobenzene-d4, I	13.50	850,000

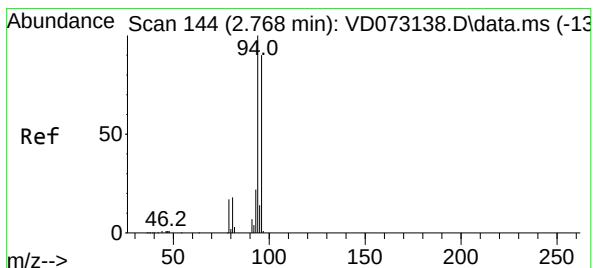
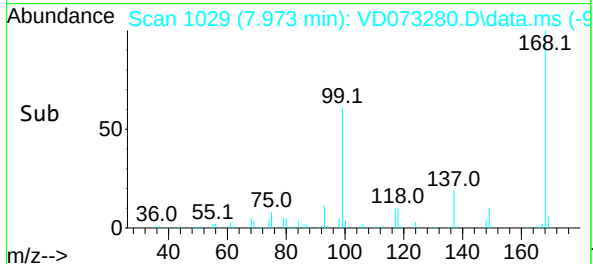
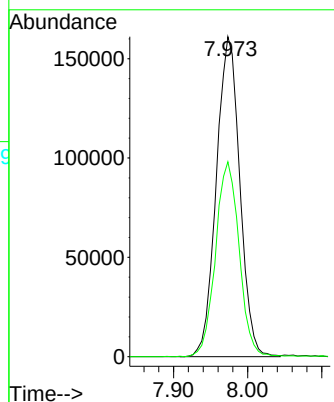


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. 0.000 min
Lab File: VD073280.D
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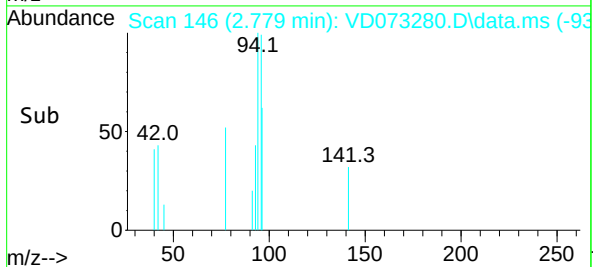
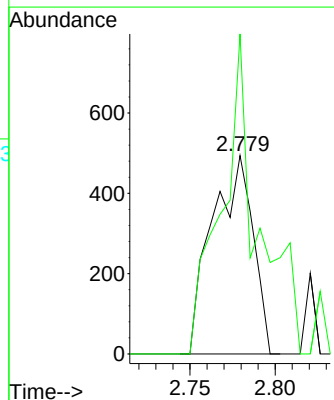
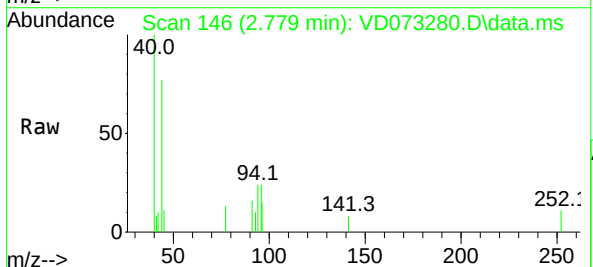


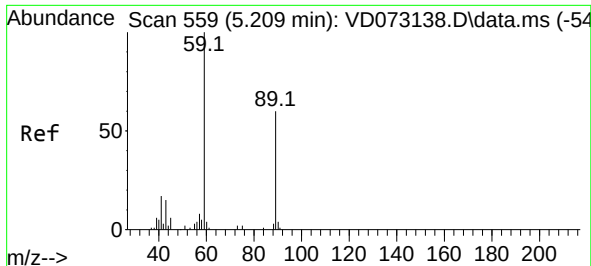
Tgt Ion:168 Resp: 355014
Ion Ratio Lower Upper
168 100
99 60.7 49.8 74.6



#5
Bromomethane
Concen: Below Cal
RT: 2.779 min Scan# 146
Delta R.T. 0.011 min
Lab File: VD073280.D
Acq: 23 May 2022 13:50

Tgt Ion: 94 Resp: 824
Ion Ratio Lower Upper
94 100
96 161.3 77.6 116.4#

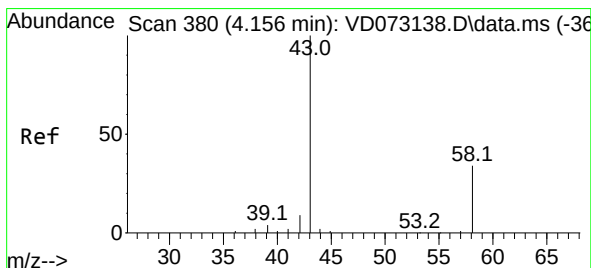
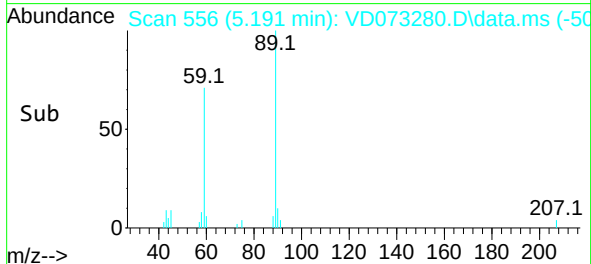
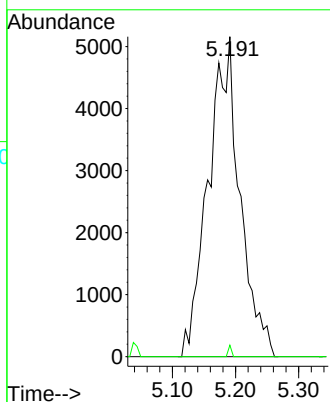
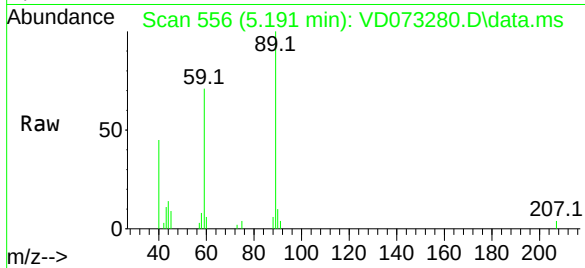




#11
Tert butyl alcohol
Concen: 29.381 ug/l
RT: 5.191 min Scan# 511
Delta R.T. -0.018 min
Lab File: VD073280.D
Acq: 23 May 2022 13:50

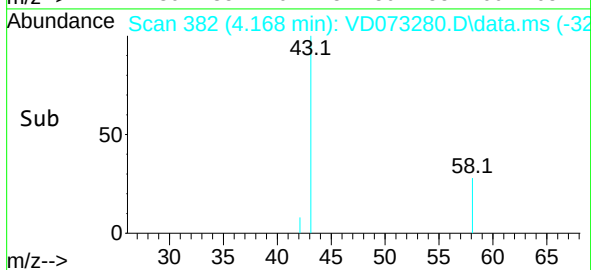
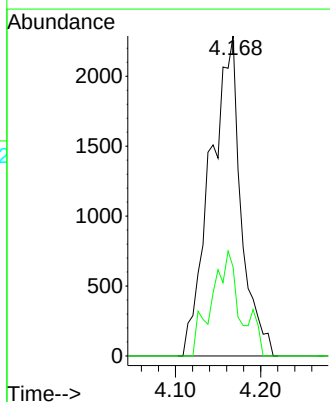
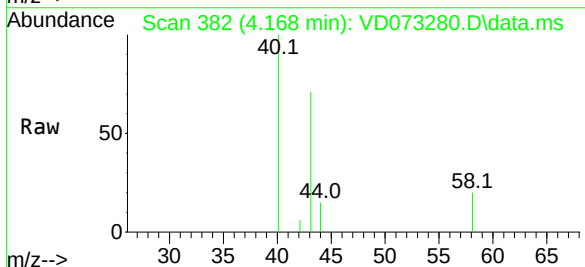
Instrument :
MSVOA_D
ClientSampleId :
P007-SS016-0006-01

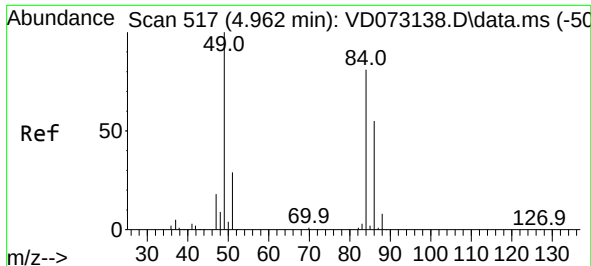
Tgt Ion: 59 Resp: 17885
Ion Ratio Lower Upper
59 100
57 0.4 7.8 11.6#



#16
Acetone
Concen: 8.455 ug/l
RT: 4.168 min Scan# 382
Delta R.T. 0.012 min
Lab File: VD073280.D
Acq: 23 May 2022 13:50

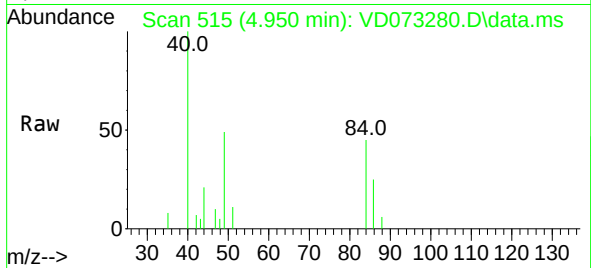
Tgt Ion: 43 Resp: 5746
Ion Ratio Lower Upper
43 100
58 27.8 22.1 33.1





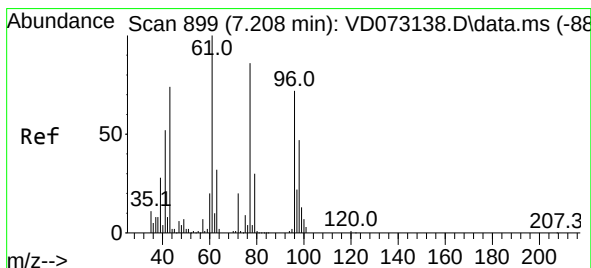
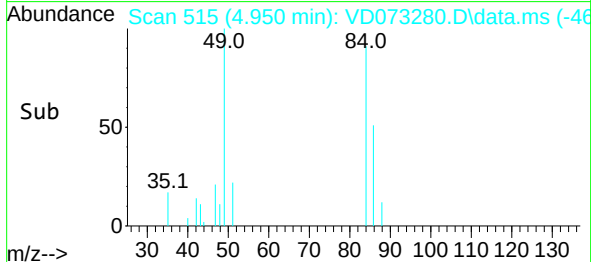
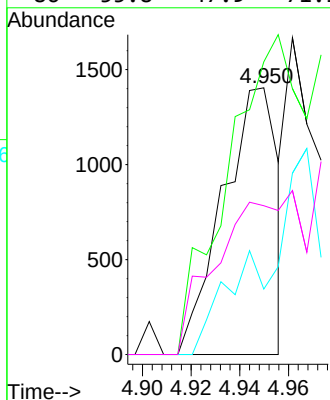
#20
Methylene Chloride
Concen: Below Cal
RT: 4.950 min Scan# 517
Delta R.T. -0.012 min
Lab File: VD073280.D
Acq: 23 May 2022 13:50

Instrument :
MSVOA_D
ClientSampleId :
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Tgt Ion: 84 Resp: 2204

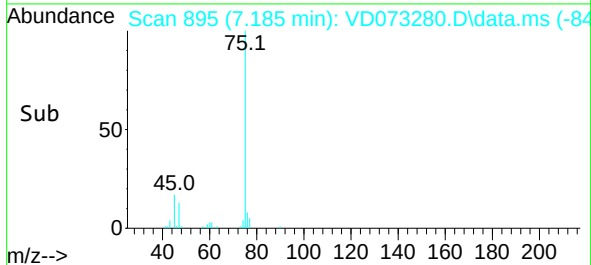
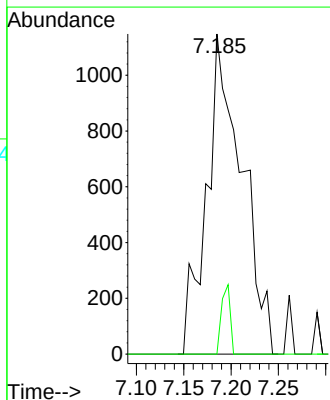
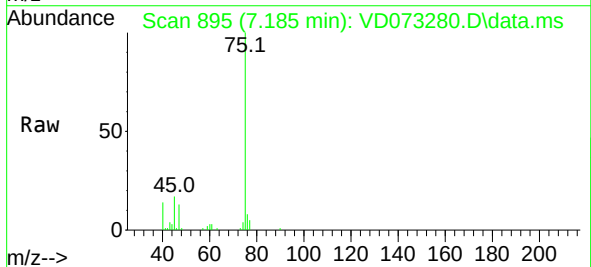
Ion	Ratio	Lower	Upper
84	100		
49	109.8	112.8	169.2#
51	24.6	32.6	48.8#
86	55.8	47.9	71.9

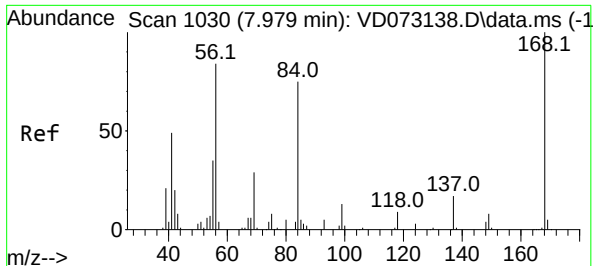


#25
2-Butanone
Concen: 2.994 ug/l
RT: 7.185 min Scan# 895
Delta R.T. -0.023 min
Lab File: VD073280.D
Acq: 23 May 2022 13:50

Tgt Ion: 43 Resp: 2977

Ion	Ratio	Lower	Upper
43	100		
72	0.0	18.6	27.8#

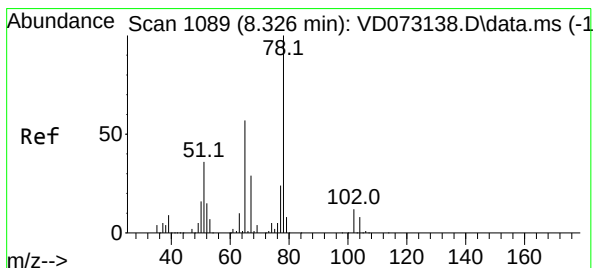
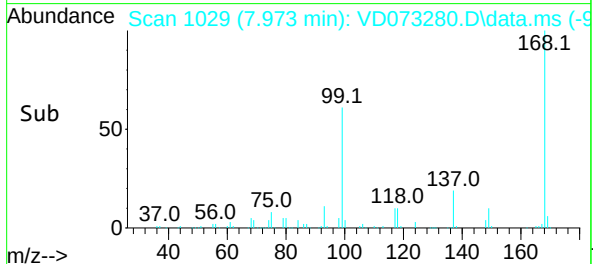
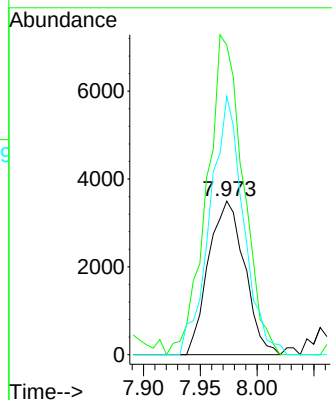
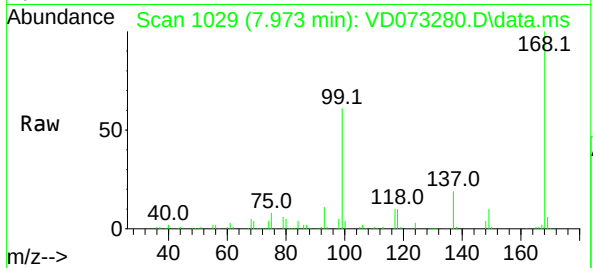




#31
Cyclohexane
Concen: 1.129 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.006 min
Lab File: VD073280.D
Acq: 23 May 2022 13:50

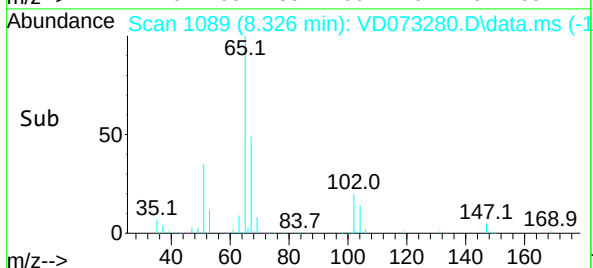
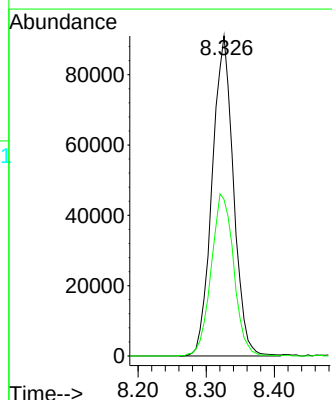
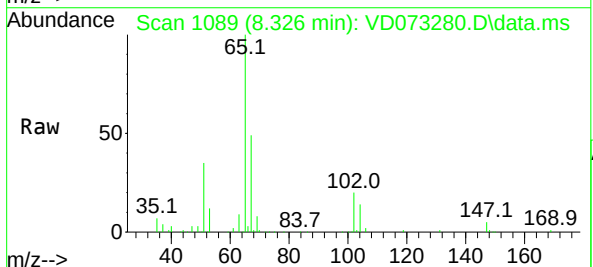
Instrument :
MSVOA_D
ClientSampleId :
P007-SS016-0006-01

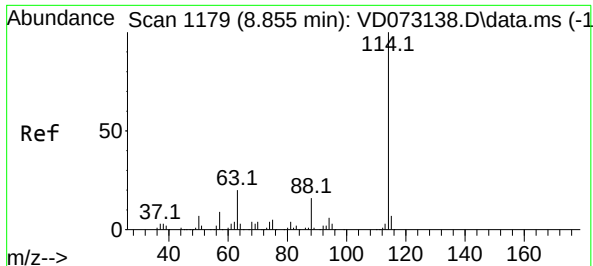
Tgt Ion: 56 Resp: 7742
Ion Ratio Lower Upper
56 100
69 201.6 25.4 38.2#
84 168.3 63.0 94.4#



#33
1,2-Dichloroethane-d4
Concen: 50.456 ug/l
RT: 8.326 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VD073280.D
Acq: 23 May 2022 13:50

Tgt Ion: 65 Resp: 197958
Ion Ratio Lower Upper
65 100
67 53.7 0.0 101.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1179

Delta R.T. 0.006 min

Lab File: VD073280.D

Acq: 23 May 2022 13:50

Instrument :

MSVOA_D

ClientSampleId :

P007-SS016-0006-01

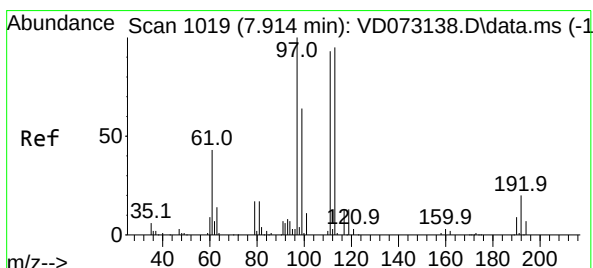
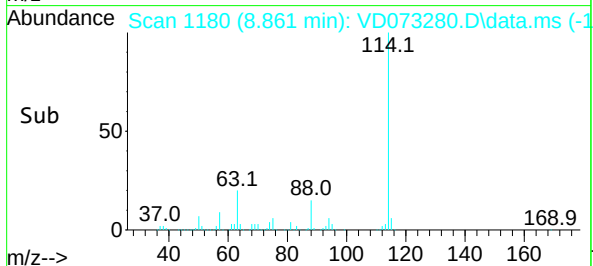
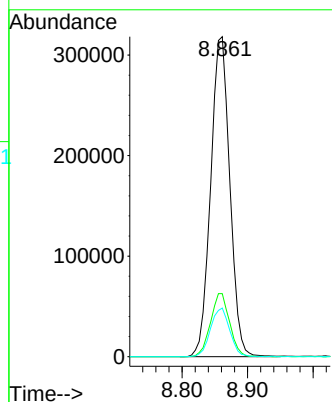
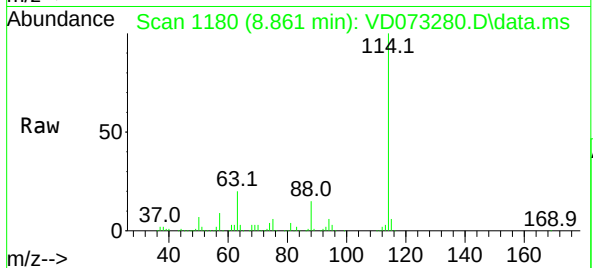
Tgt Ion:114 Resp: 645063

Ion Ratio Lower Upper

114 100

63 19.7 0.0 46.6

88 15.2 0.0 33.2



#35

Dibromofluoromethane

Concen: 49.484 ug/l

RT: 7.909 min Scan# 1018

Delta R.T. -0.005 min

Lab File: VD073280.D

Acq: 23 May 2022 13:50

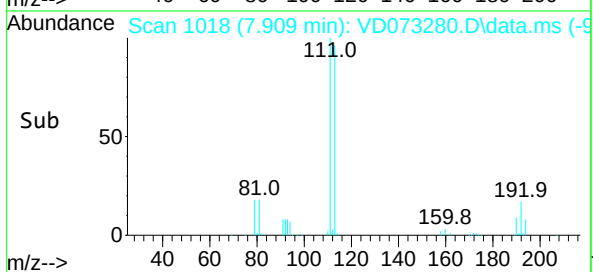
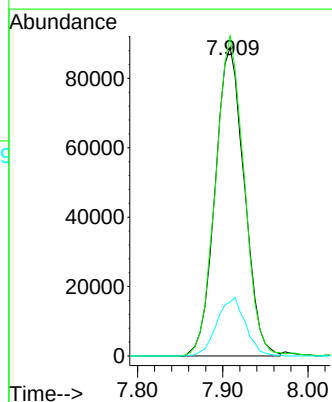
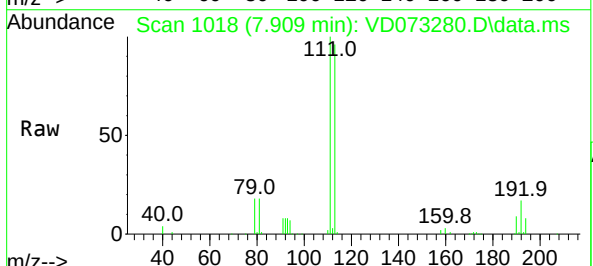
Tgt Ion:113 Resp: 210633

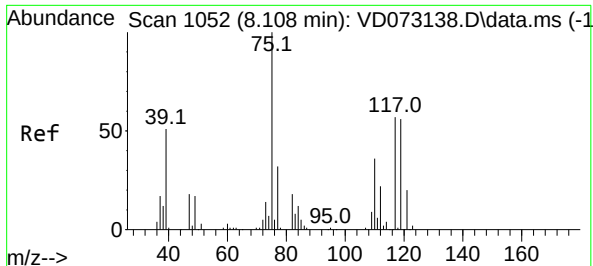
Ion Ratio Lower Upper

113 100

111 102.1 83.8 125.6

192 18.6 14.6 21.8





#36

1,1-Dichloropropene

Concen: 4.831 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.135 min

Lab File: VD073280.D

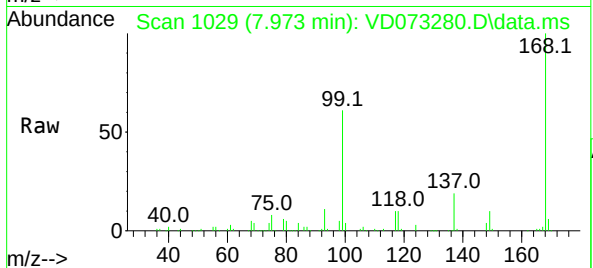
Acq: 23 May 2022 13:50

Instrument :

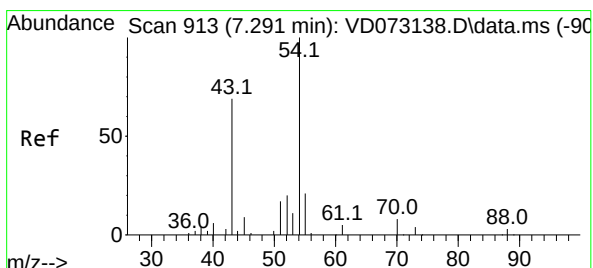
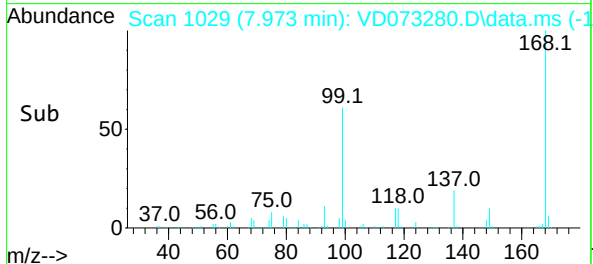
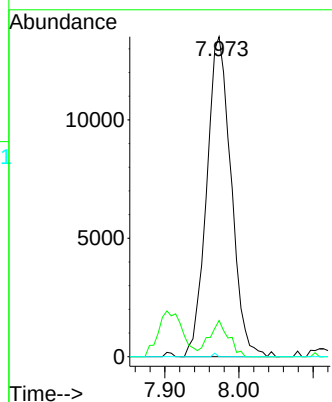
MSVOA_D

ClientSampleId :

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Tgt Ion:	75	Resp:	30929
Ion	Ratio	Lower	Upper
75	100		
110	9.0	16.4	49.1#
77	0.2	24.2	36.2#



#37

Ethyl Acetate

Concen: 1.177 ug/l

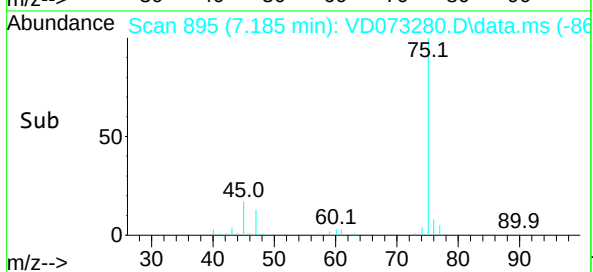
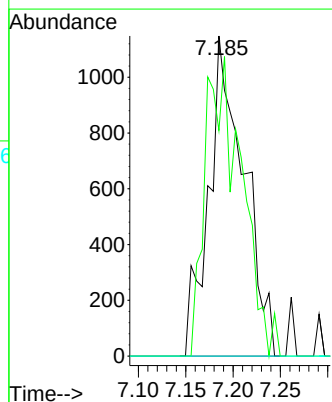
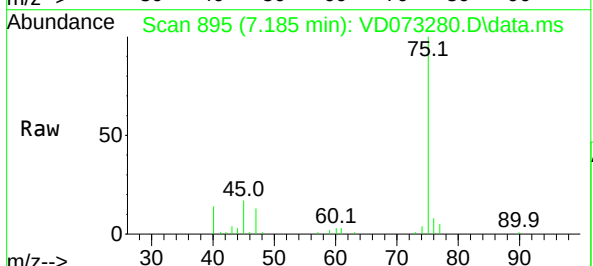
RT: 7.185 min Scan# 895

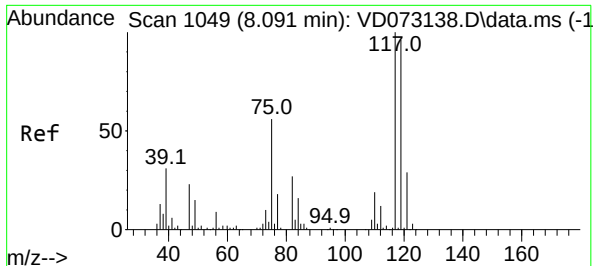
Delta R.T. -0.106 min

Lab File: VD073280.D

Acq: 23 May 2022 13:50

Tgt Ion:	43	Resp:	2977
Ion	Ratio	Lower	Upper
43	100		
61	97.1	9.8	14.8#
70	0.0	6.9	10.3#





#38

Carbon Tetrachloride

Concen: 5.780 ug/l

RT: 7.973 min Scan# 1049

Delta R.T. -0.118 min

Lab File: VD073280.D

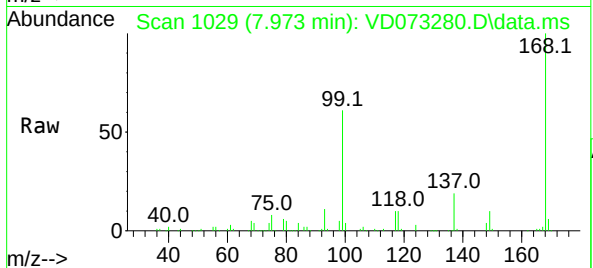
Acq: 23 May 2022 13:50

Instrument :

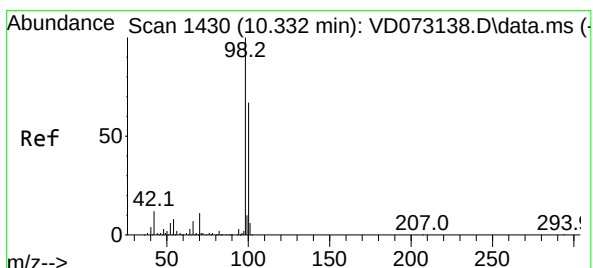
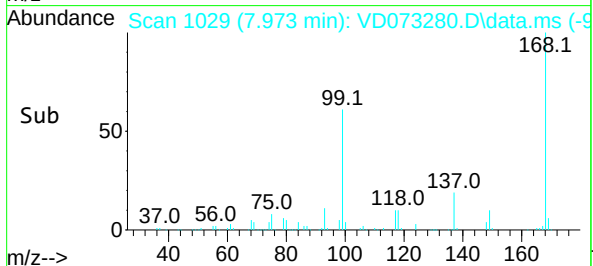
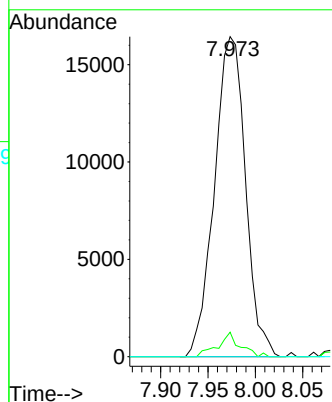
MSVOA_D

ClientSampleId :

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Tgt Ion:	117	Resp:	37507
Ion Ratio	Lower	Upper	
117	100		
119	7.7	75.8	113.6#
121	0.0	24.5	36.7#



#50

Toluene-d8

Concen: 48.238 ug/l

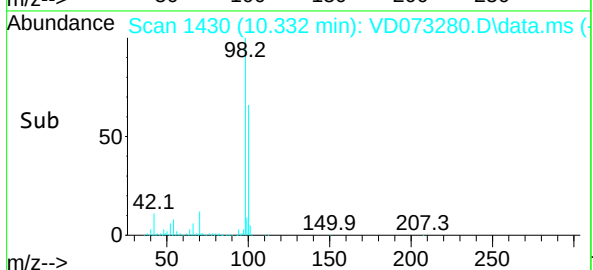
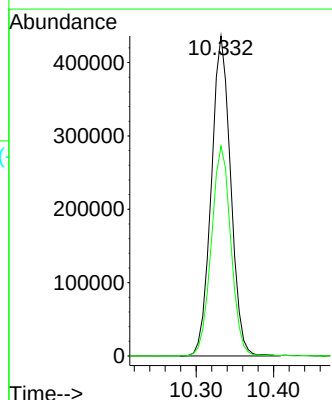
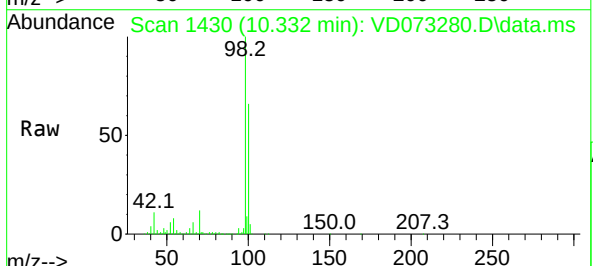
RT: 10.332 min Scan# 1430

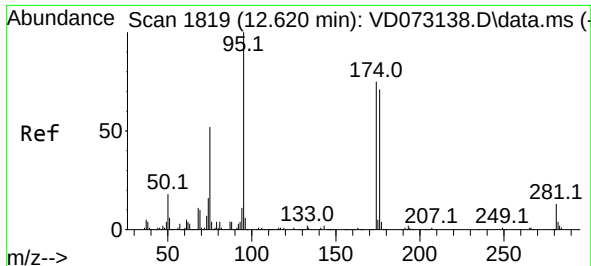
Delta R.T. -0.000 min

Lab File: VD073280.D

Acq: 23 May 2022 13:50

Tgt Ion:	98	Resp:	756890
Ion Ratio	Lower	Upper	
98	100		
100	66.1	52.4	78.6

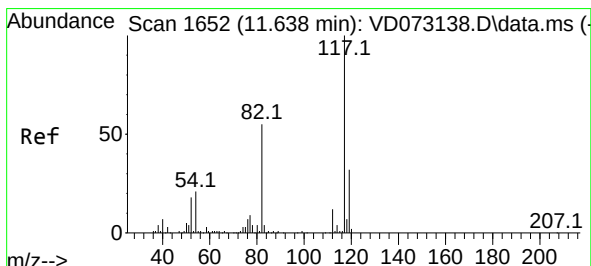
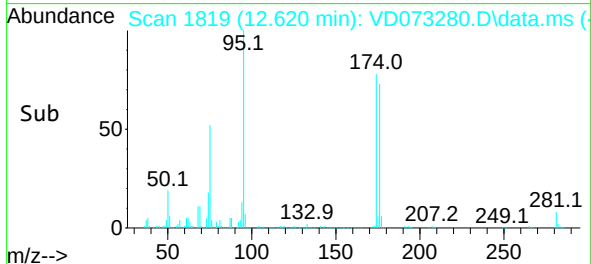
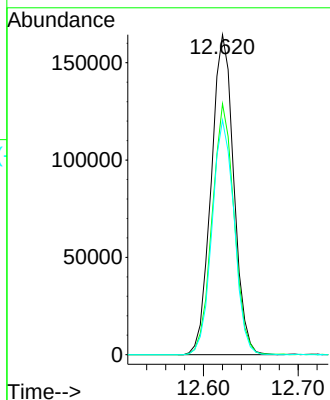
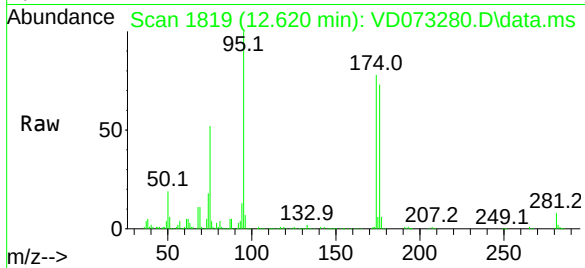




#62
4-Bromofluorobenzene
Concen: 49.433 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.000 min
Lab File: VD073280.D
Acq: 23 May 2022 13:50

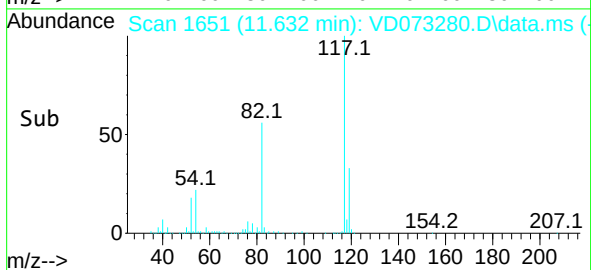
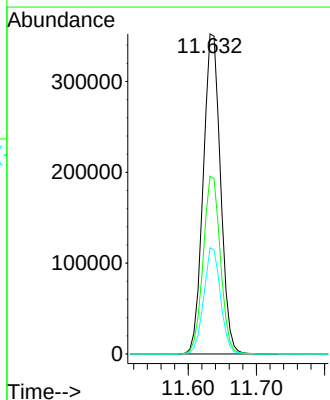
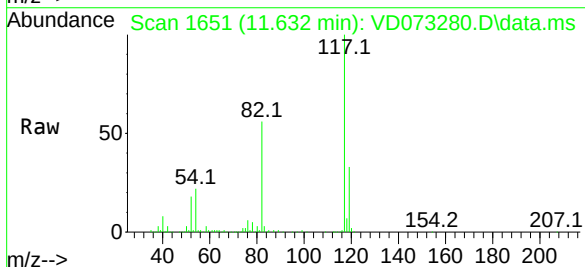
Instrument :
MSVOA_D
ClientSampleId :
P007-SS016-0006-01

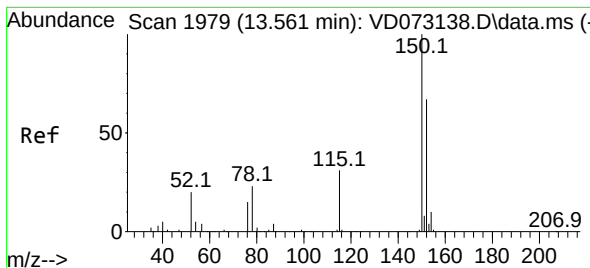
Tgt Ion: 95 Resp: 272203
Ion Ratio Lower Upper
95 100
174 76.3 0.0 152.8
176 71.7 0.0 145.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.632 min Scan# 1651
Delta R.T. -0.006 min
Lab File: VD073280.D
Acq: 23 May 2022 13:50

Tgt Ion: 117 Resp: 621944
Ion Ratio Lower Upper
117 100
82 55.5 45.3 67.9
119 33.2 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: VD073280.D

Acq: 23 May 2022 13:50

Instrument :

MSVOA_D

ClientSampleId :

P007-SS016-0006-01

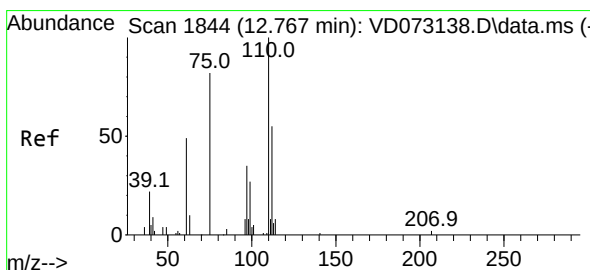
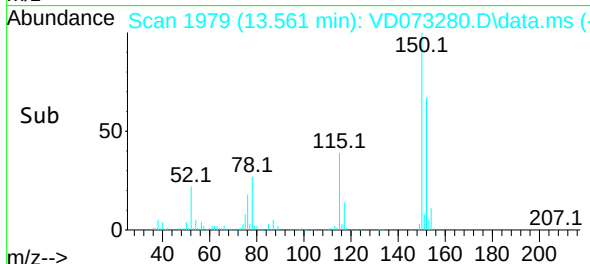
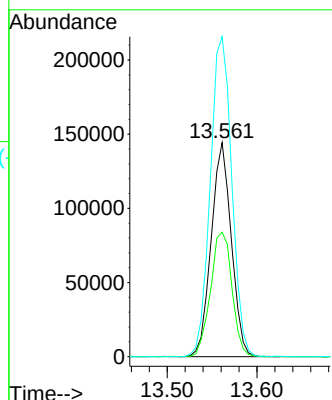
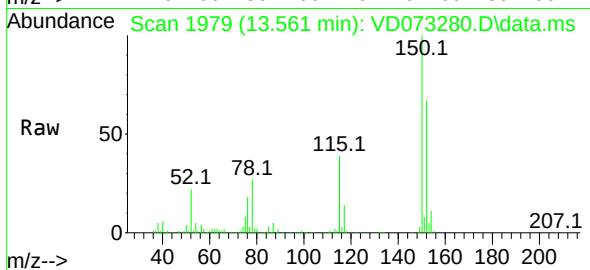
Tgt Ion:152 Resp: 224665

Ion Ratio Lower Upper

152 100

115 62.1 31.3 93.8

150 159.4 0.0 348.6



#76

1,2,3-Trichloropropane

Concen: 62.798 ug/l

RT: 12.620 min Scan# 1819

Delta R.T. -0.147 min

Lab File: VD073280.D

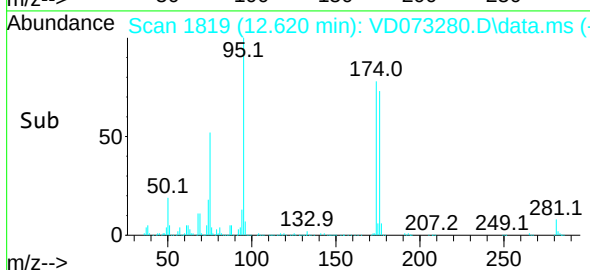
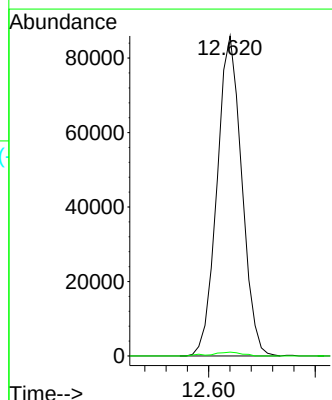
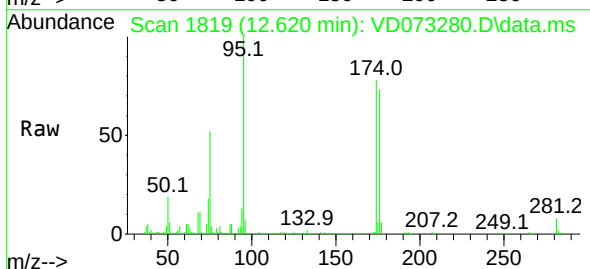
Acq: 23 May 2022 13:50

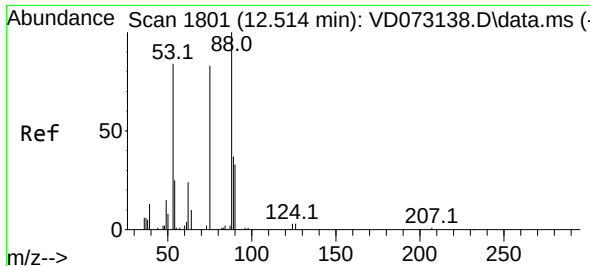
Tgt Ion: 75 Resp: 138430

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#

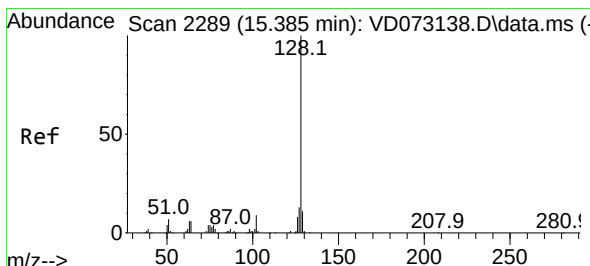
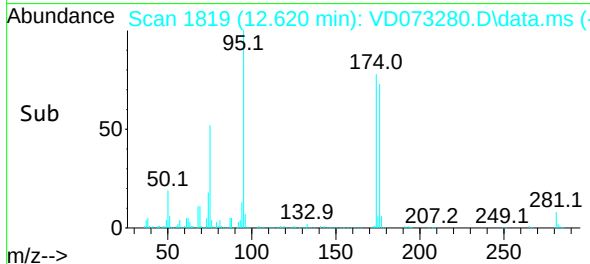
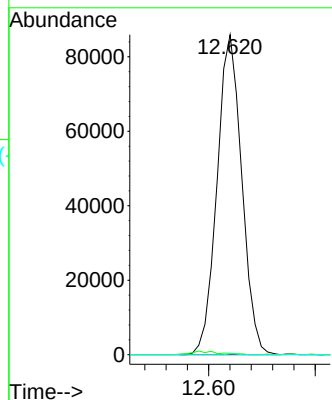
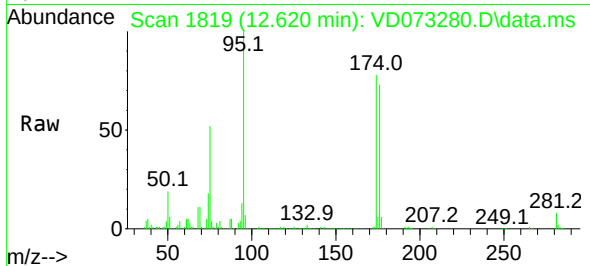




#81
trans-1,4-Dichloro-2-butene
Concen: 150.760 ug/l
RT: 12.620 min Scan# 1801
Delta R.T. 0.106 min
Lab File: VD073280.D
Acq: 23 May 2022 13:50

Instrument :
MSVOA_D
ClientSampleId :
P007-SS016-0006-01

Tgt Ion: 75 Resp: 138430
Ion Ratio Lower Upper
75 100
53 0.0 86.5 129.7#
89 0.1 33.9 50.9#



#95
Naphthalene
Concen: 3.646 ug/l
RT: 15.390 min Scan# 2290
Delta R.T. 0.005 min
Lab File: VD073280.D
Acq: 23 May 2022 13:50

Tgt Ion: 128 Resp: 829
Ion Ratio Lower Upper
128 100
127 0.0 10.3 15.5#
129 0.0 8.4 12.6#

