

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD121121\
 Data File : VD071278.D
 Acq On : 11 Dec 2021 19:09
 Operator : VA/SY
 Sample : M5051-04
 Misc : 5.07G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 12 18:51:57 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D112921S.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 29 17:54:09 2021
 Response via : Initial Calibration

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

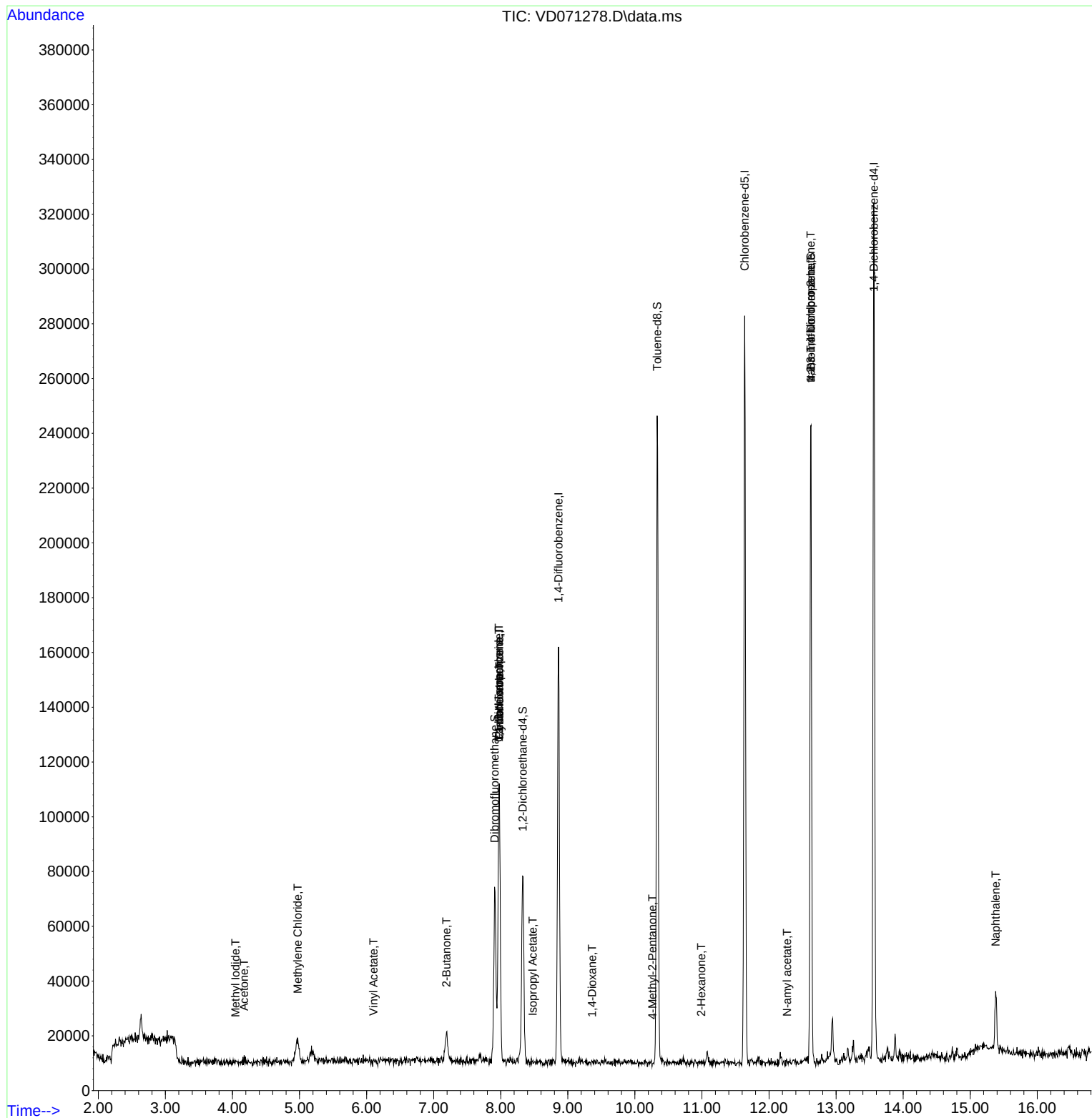
Internal Standards						
1) Pentafluorobenzene	7.979	168	71227	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	123400	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	144269	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	77099	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	55092	65.918	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	131.840%
35) Dibromofluoromethane	7.909	113	42895	54.588	ug/l	-0.01
Spiked Amount	50.000	Range	54 - 147	Recovery	=	109.180%
50) Toluene-d8	10.332	98	155813	52.105	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	=	104.200%
62) 4-Bromofluorobenzene	12.626	95	73969	71.359	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	=	142.720%
Target Compounds						
					Qvalue	
10) Methyl Iodide	4.044	142	59	4.625	ug/l #	40
11) Tert butyl alcohol	5.179	59	4209	Below Cal	#	71
16) Acetone	4.173	43	770	33.838	ug/l #	40
20) Methylene Chloride	4.973	84	5862	3.027	ug/l	87
23) Vinyl Acetate	6.103	43	194	27.345	ug/l #	72
25) 2-Butanone	7.191	43	374	29.653	ug/l #	45
31) Cyclohexane	7.979	56	1972	1.387	ug/l #	35
36) 1,1-Dichloropropene	7.973	75	7002	6.071	ug/l #	49
38) Carbon Tetrachloride	7.973	117	7654	6.732	ug/l #	16
41) Methacrylonitrile	7.556	41	58	Below Cal	#	8
43) Isopropyl Acetate	8.479	43	63	5.274	ug/l #	47
49) 1,4-Dioxane	9.361	88	62	15.026	ug/l #	23
51) 4-Methyl-2-Pentanone	10.261	43	77	30.772	ug/l #	34
59) 2-Hexanone	10.991	43	55	34.686	ug/l #	22
74) N-amyl acetate	12.267	43	135	5.779	ug/l #	40
76) 1,2,3-Trichloropropane	12.620	75	41879	57.012	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.620	75	41879	123.723	ug/l #	18
95) Naphthalene	15.379	128	18749	8.330	ug/l	99

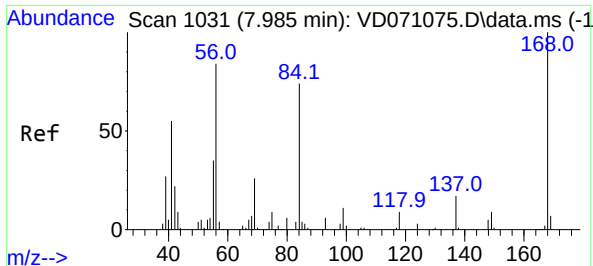
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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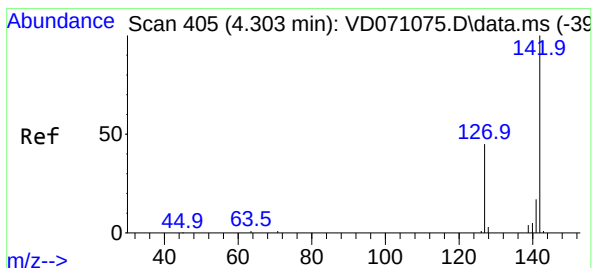
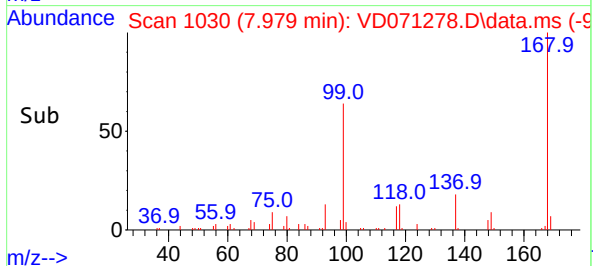
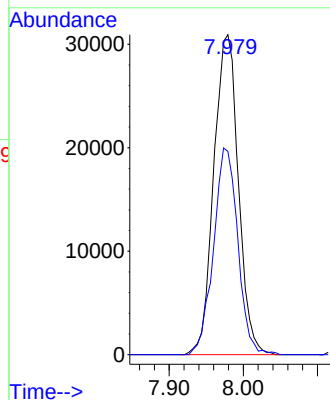
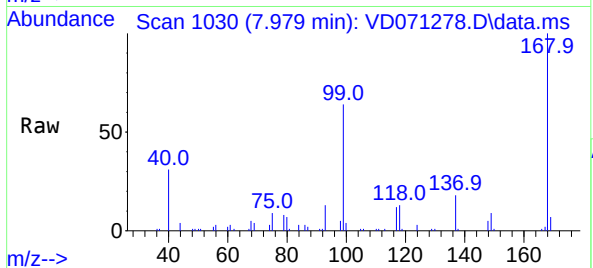




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.979 min Scan# 10
Delta R.T. -0.006 min
Lab File: VD071278.D
Acq: 11 Dec 2021 19:09

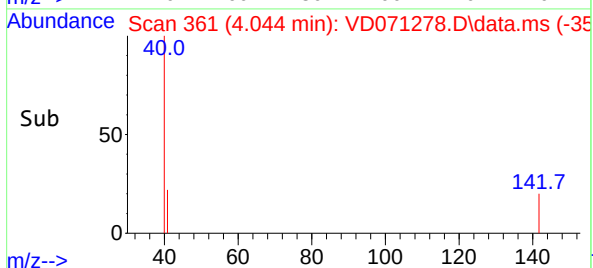
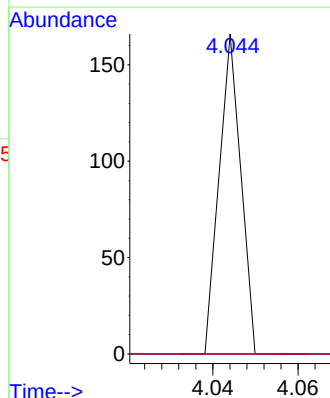
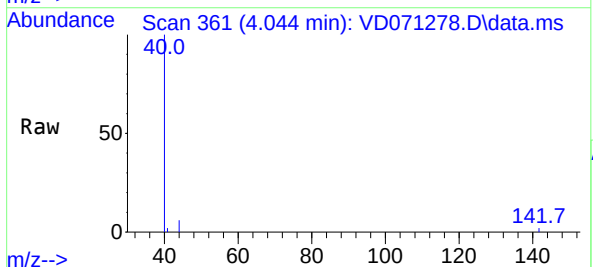
Instrument :
MSVOA_D
ClientSampleId :

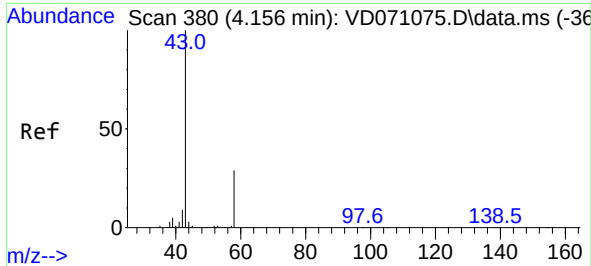
Tgt Ion:168 Resp: 71227
Ion Ratio Lower Upper
168 100
99 63.6 46.6 69.8



#10
Methyl Iodide
Concen: 4.625 ug/l
RT: 4.044 min Scan# 361
Delta R.T. -0.259 min
Lab File: VD071278.D
Acq: 11 Dec 2021 19:09

Tgt Ion:142 Resp: 59
Ion Ratio Lower Upper
142 100
127 0.0 35.0 52.4#
141 0.0 12.0 18.0#





#16

Acetone

Concen: 33.838 ug/l

RT: 4.173 min Scan# 31

Delta R.T. 0.017 min

Lab File: VD071278.D

Acq: 11 Dec 2021 19:09

Instrument :

MSVOA_D

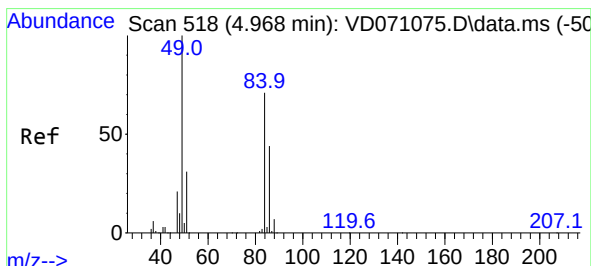
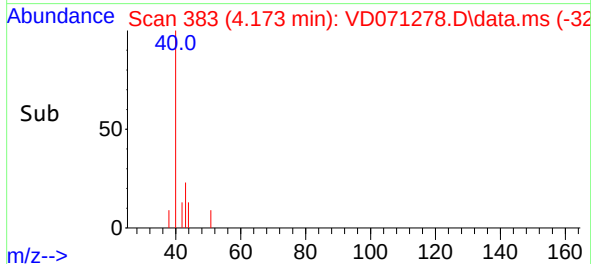
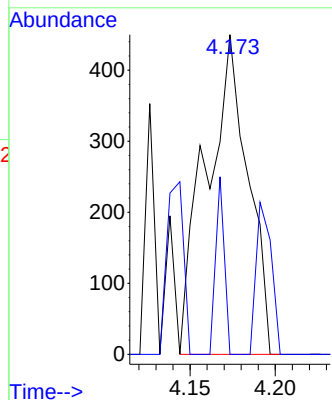
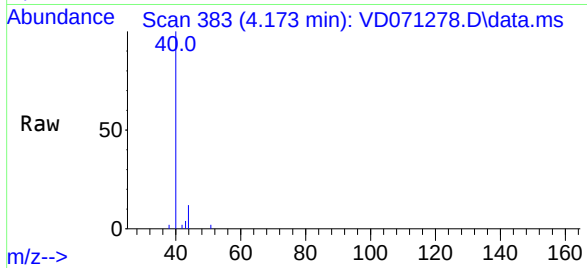
ClientSampleId :

Tgt Ion: 43 Resp: 770

Ion Ratio Lower Upper

43 100

58 0.0 27.8 41.8#



#20

Methylene Chloride

Concen: 3.027 ug/l

RT: 4.973 min Scan# 519

Delta R.T. 0.005 min

Lab File: VD071278.D

Acq: 11 Dec 2021 19:09

Tgt Ion: 84 Resp: 5862

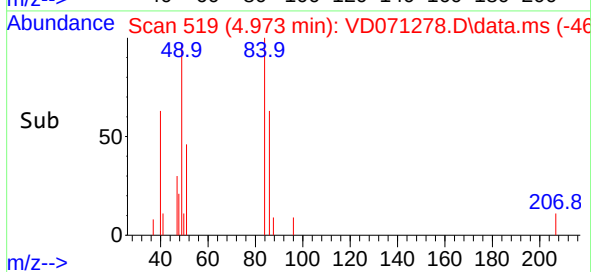
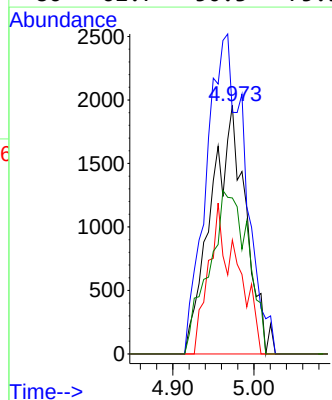
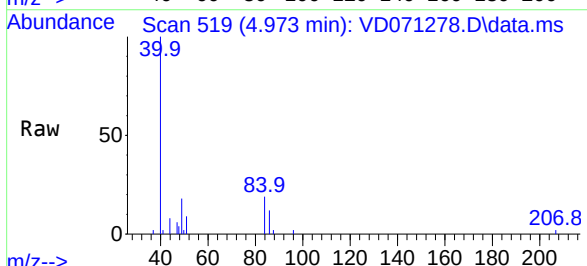
Ion Ratio Lower Upper

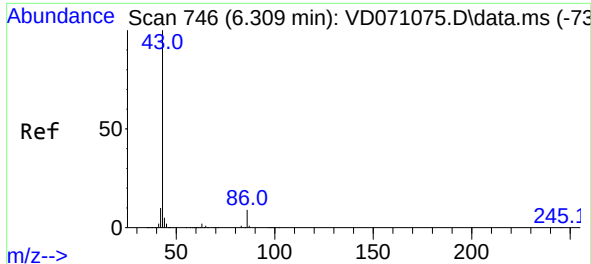
84 100

49 97.2 95.8 143.6

51 45.8 30.9 46.3

86 62.7 50.3 75.5





#23

Vinyl Acetate

Concen: 27.345 ug/l

RT: 6.103 min Scan# 711

Delta R.T. -0.206 min

Lab File: VD071278.D

Acq: 11 Dec 2021 19:09

Instrument :

MSVOA_D

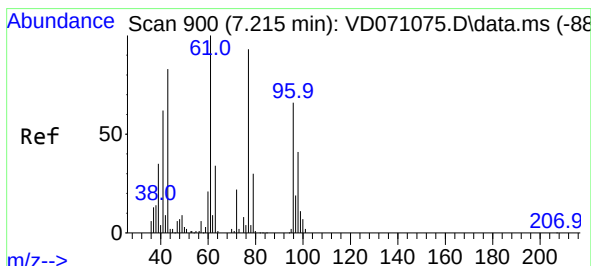
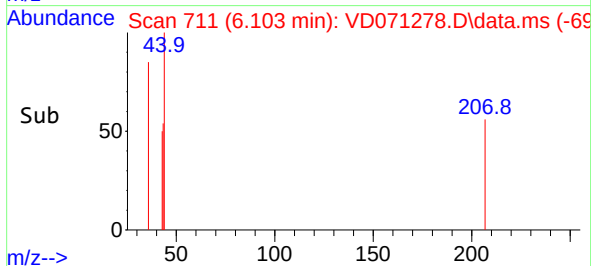
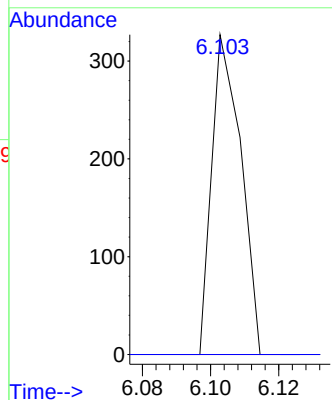
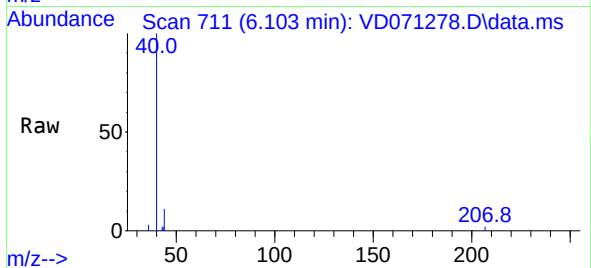
ClientSampleId :

Tgt Ion: 43 Resp: 194

Ion Ratio Lower Upper

43 100

86 0.0 8.2 12.4#



#25

2-Butanone

Concen: 29.653 ug/l

RT: 7.191 min Scan# 896

Delta R.T. -0.024 min

Lab File: VD071278.D

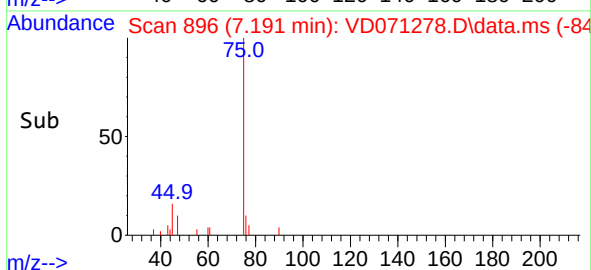
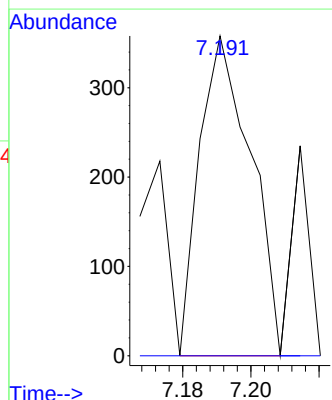
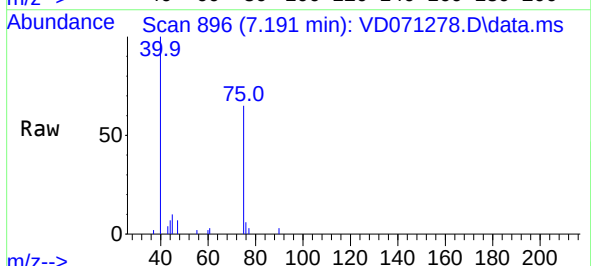
Acq: 11 Dec 2021 19:09

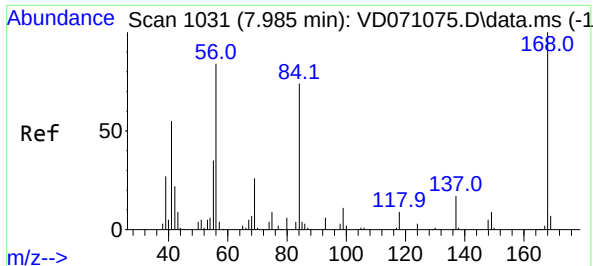
Tgt Ion: 43 Resp: 374

Ion Ratio Lower Upper

43 100

72 0.0 23.8 35.6#





#31

Cyclohexane

Concen: 1.387 ug/l

RT: 7.979 min Scan# 1030

Delta R.T. -0.006 min

Lab File: VD071278.D

Acq: 11 Dec 2021 19:09

Instrument :

MSVOA_D

ClientSampleId :

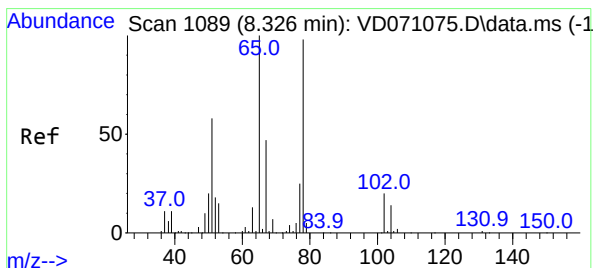
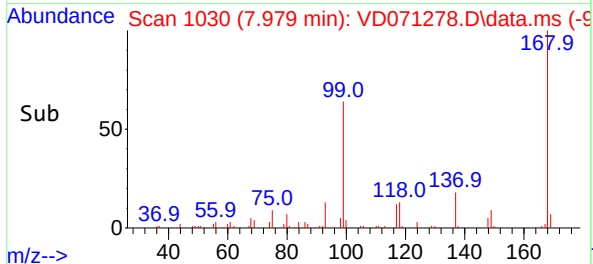
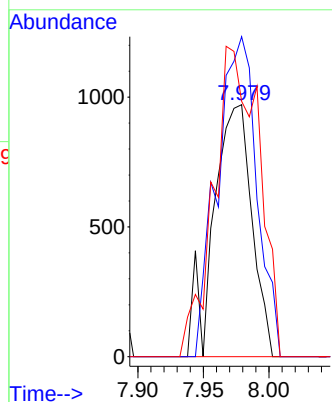
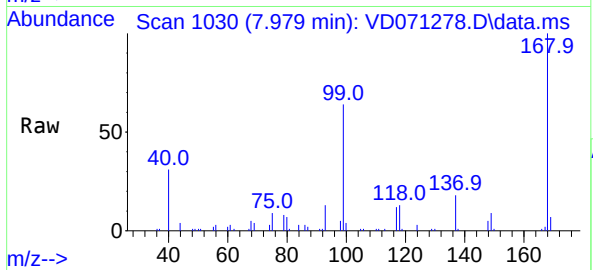
Tgt Ion: 56 Resp: 1972

Ion Ratio Lower Upper

56 100

69 127.0 25.9 38.9#

84 101.3 64.3 96.5#



#33

1,2-Dichloroethane-d4

Concen: 65.918 ug/l

RT: 8.326 min Scan# 1089

Delta R.T. 0.000 min

Lab File: VD071278.D

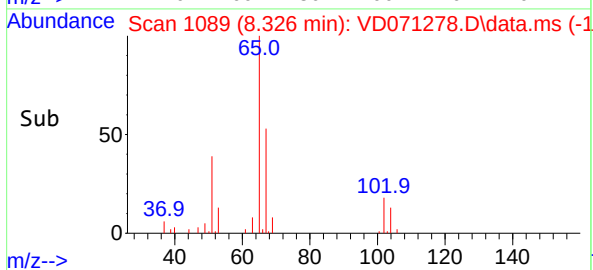
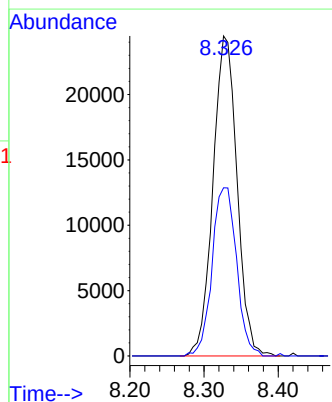
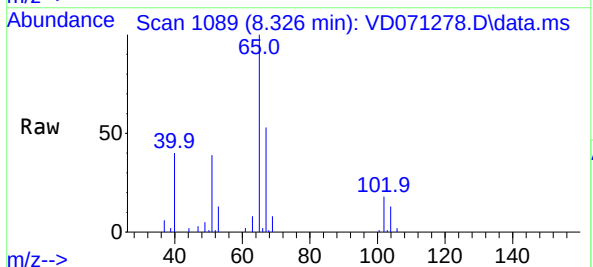
Acq: 11 Dec 2021 19:09

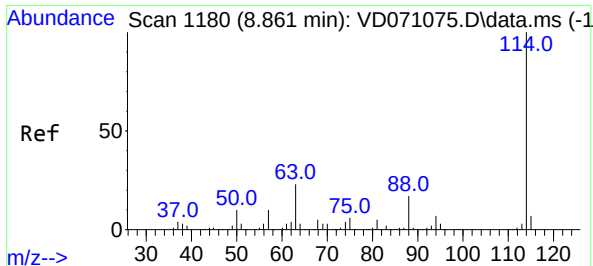
Tgt Ion: 65 Resp: 55092

Ion Ratio Lower Upper

65 100

67 53.6 0.0 112.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1180

Delta R.T. 0.000 min

Lab File: VD071278.D

Acq: 11 Dec 2021 19:09

Instrument :

MSVOA_D

ClientSampleId :

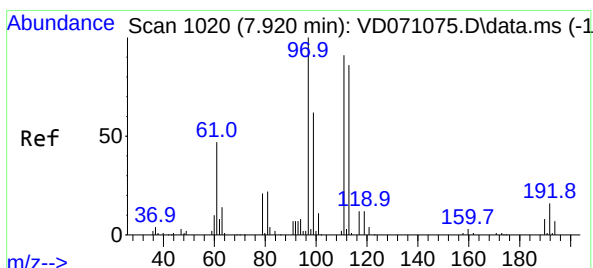
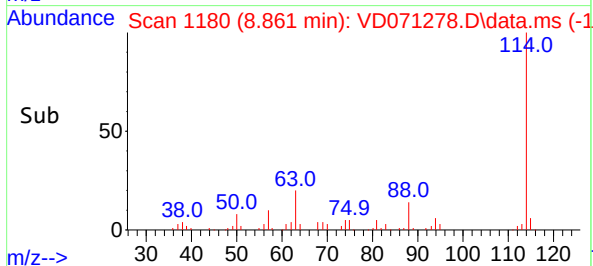
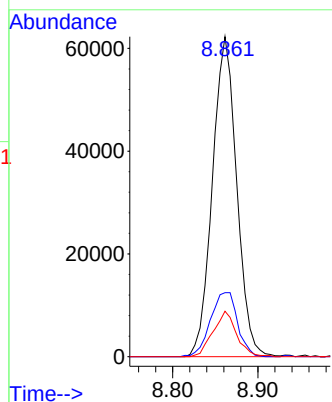
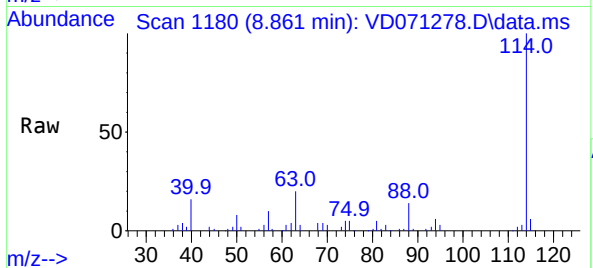
Tgt Ion:114 Resp: 123400

Ion Ratio Lower Upper

114 100

63 20.0 0.0 41.8

88 14.2 0.0 32.8



#35

Dibromofluoromethane

Concen: 54.588 ug/l

RT: 7.909 min Scan# 1018

Delta R.T. -0.011 min

Lab File: VD071278.D

Acq: 11 Dec 2021 19:09

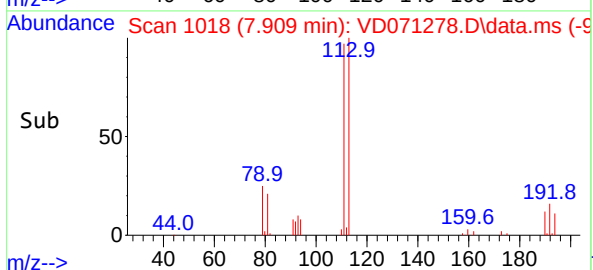
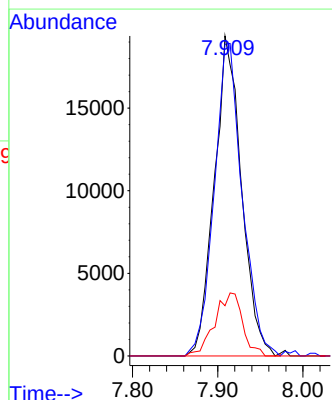
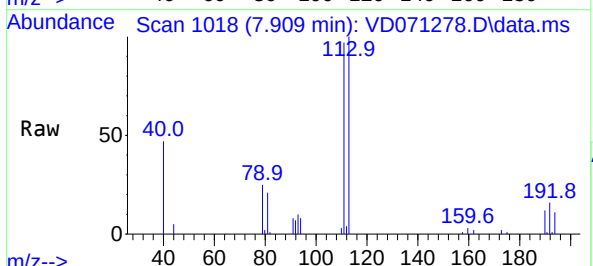
Tgt Ion:113 Resp: 42895

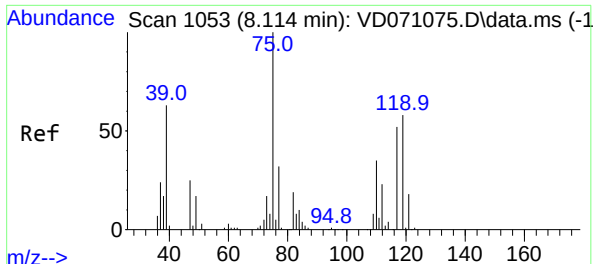
Ion Ratio Lower Upper

113 100

111 100.8 82.0 123.0

192 20.2 15.2 22.8





#36

1,1-Dichloropropene

Concen: 6.071 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.141 min

Lab File: VD071278.D

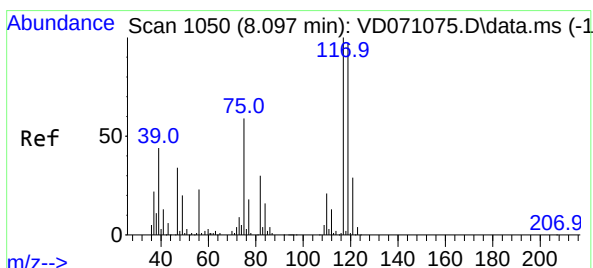
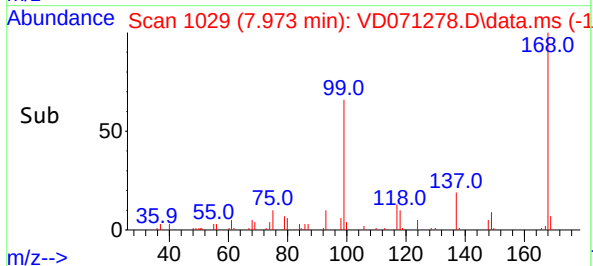
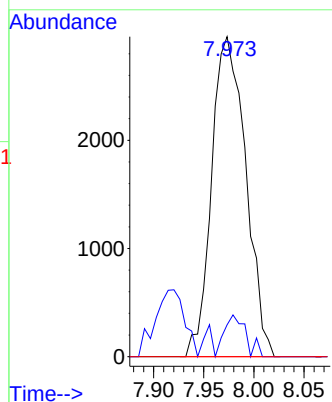
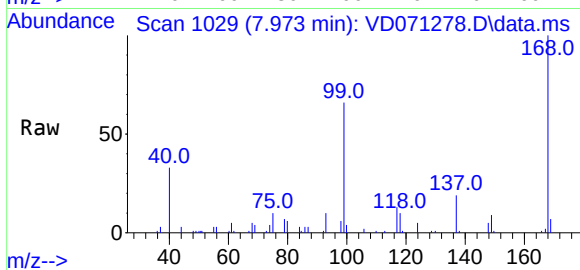
Acq: 11 Dec 2021 19:09

Instrument :

MSVOA_D

ClientSampleId :

Tgt Ion: 75	Resp:	7002
Ion Ratio	Lower	Upper
75	100	
110	8.2	17.8 53.4#
77	0.0	24.8 37.2#



#38

Carbon Tetrachloride

Concen: 6.732 ug/l

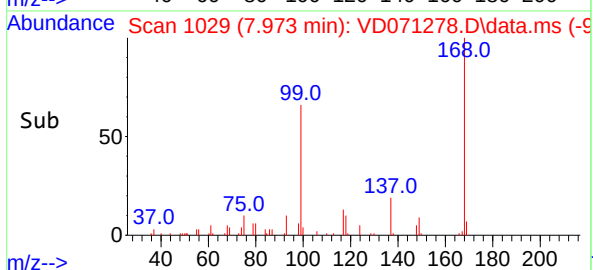
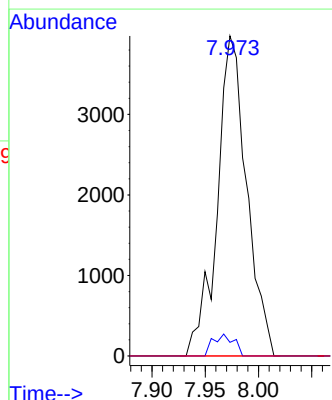
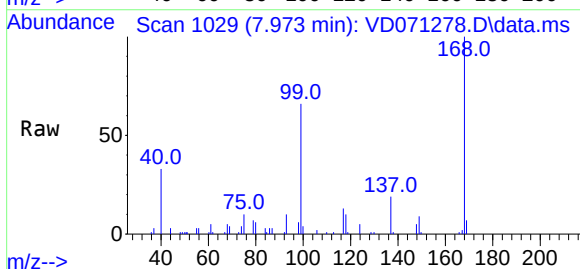
RT: 7.973 min Scan# 1029

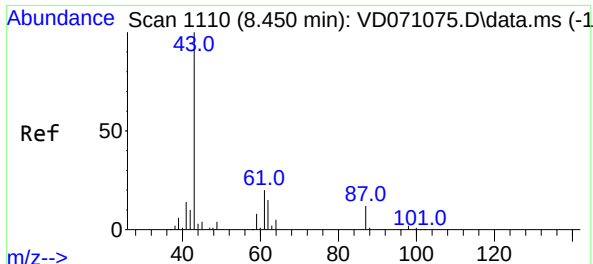
Delta R.T. -0.124 min

Lab File: VD071278.D

Acq: 11 Dec 2021 19:09

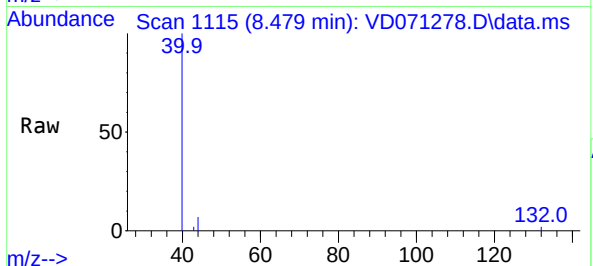
Tgt Ion: 117	Resp:	7654
Ion Ratio	Lower	Upper
117	100	
119	4.3	75.8 113.6#
121	0.0	23.6 35.4#



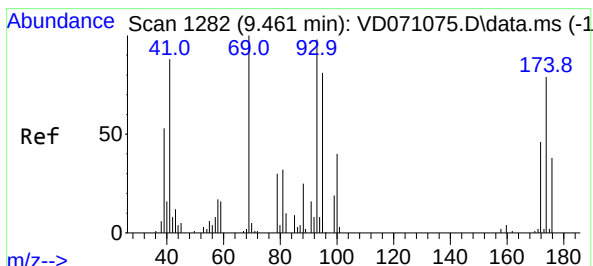
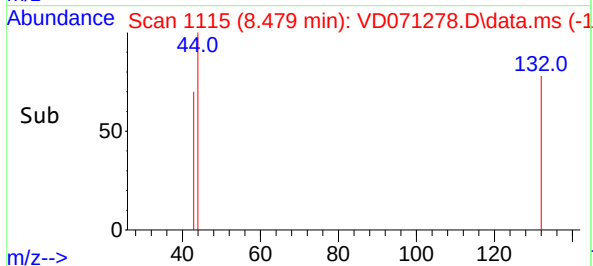
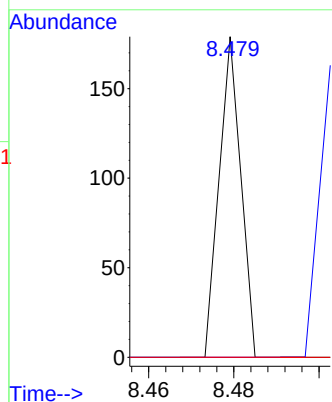


#43
Isopropyl Acetate
Concen: 5.274 ug/l
RT: 8.479 min Scan# 1110
Delta R.T. 0.029 min
Lab File: VD071278.D
Acq: 11 Dec 2021 19:09

Instrument :
MSVOA_D
ClientSampleId :

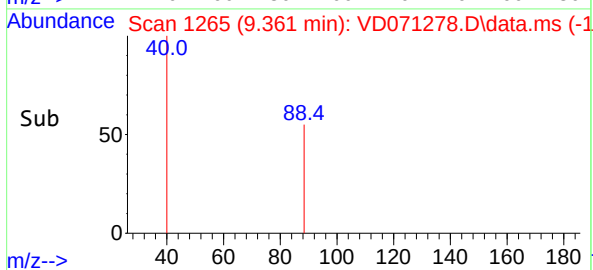
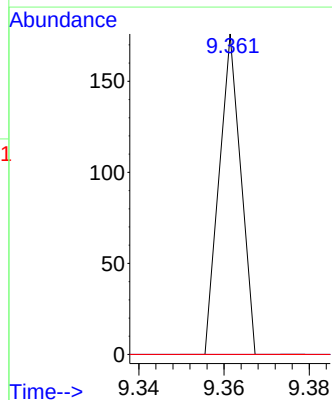
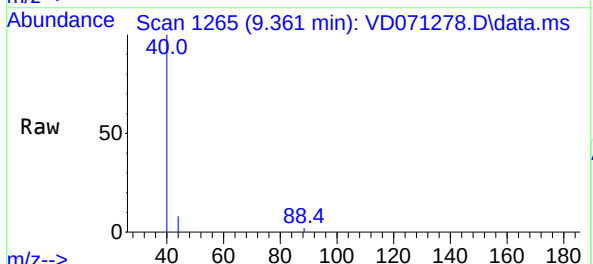


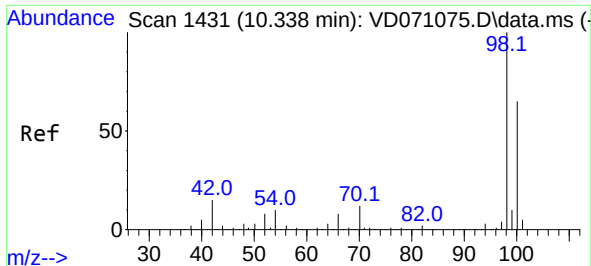
Tgt Ion: 43 Resp: 63
Ion Ratio Lower Upper
43 100
61 0.0 28.2 42.4#
87 0.0 10.7 16.1#



#49
1,4-Dioxane
Concen: 15.026 ug/l
RT: 9.361 min Scan# 1265
Delta R.T. -0.100 min
Lab File: VD071278.D
Acq: 11 Dec 2021 19:09

Tgt Ion: 88 Resp: 62
Ion Ratio Lower Upper
88 100
43 0.0 28.9 43.3#
58 0.0 56.3 84.5#

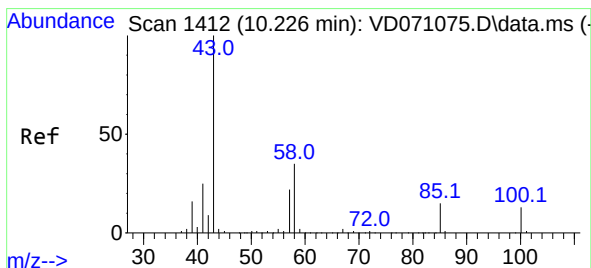
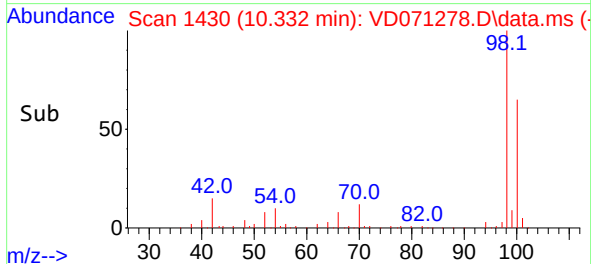
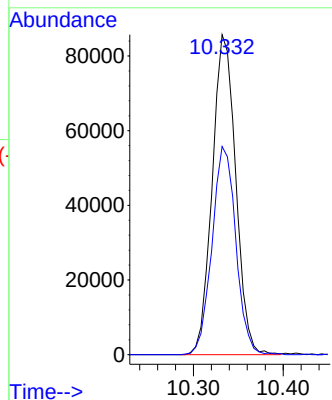
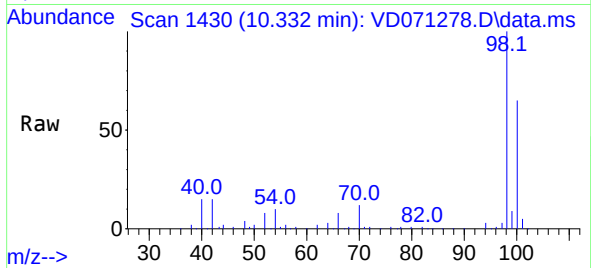




#50
Toluene-d8
Concen: 52.105 ug/l
RT: 10.332 min Scan# 1431
Delta R.T. -0.006 min
Lab File: VD071278.D
Acq: 11 Dec 2021 19:09

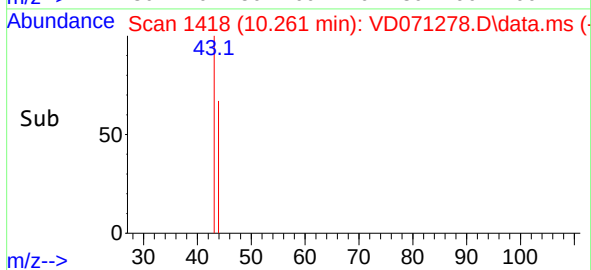
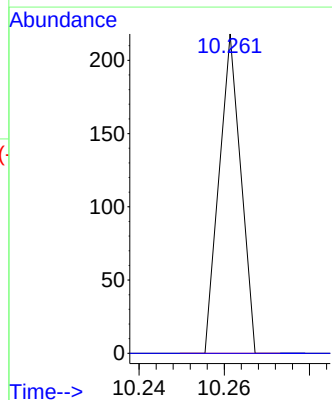
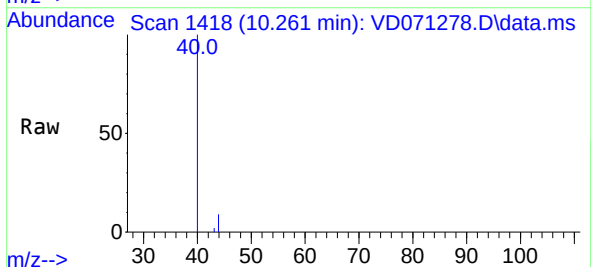
Instrument :
MSVOA_D
ClientSampleId :

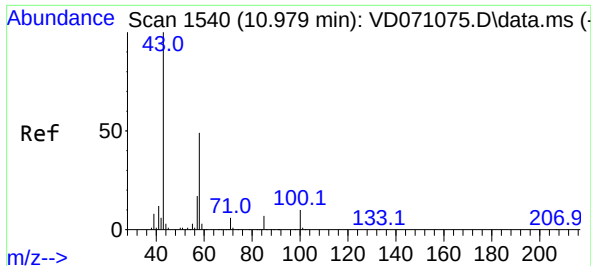
Tgt Ion: 98 Resp: 155813
Ion Ratio Lower Upper
98 100
100 66.0 51.8 77.6



#51
4-Methyl-2-Pentanone
Concen: 30.772 ug/l
RT: 10.261 min Scan# 1418
Delta R.T. 0.035 min
Lab File: VD071278.D
Acq: 11 Dec 2021 19:09

Tgt Ion: 43 Resp: 77
Ion Ratio Lower Upper
43 100
58 0.0 33.1 49.7#





#59

2-Hexanone

Concen: 34.686 ug/l

RT: 10.991 min Scan# 11

Delta R.T. 0.012 min

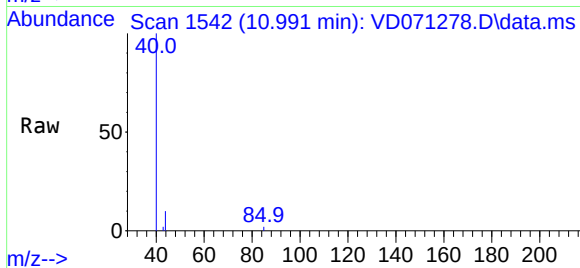
Lab File: VD071278.D

Acq: 11 Dec 2021 19:09

Instrument :

MSVOA_D

ClientSampleId :

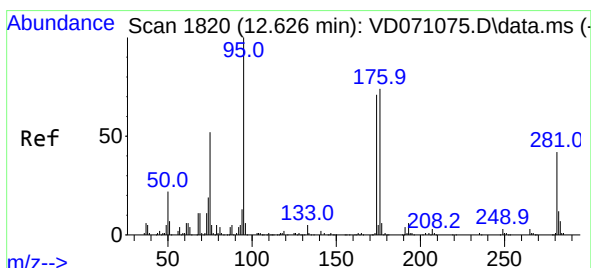
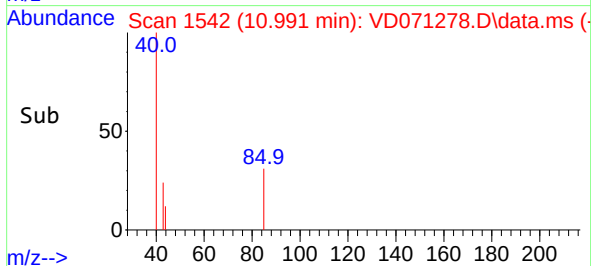
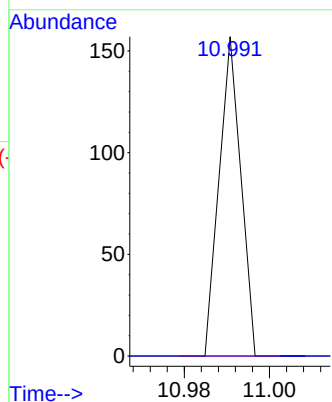


Tgt Ion: 43 Resp: 55

Ion Ratio Lower Upper

43 100

58 0.0 28.7 86.1#



#62

4-Bromofluorobenzene

Concen: 71.359 ug/l

RT: 12.626 min Scan# 1820

Delta R.T. -0.000 min

Lab File: VD071278.D

Acq: 11 Dec 2021 19:09

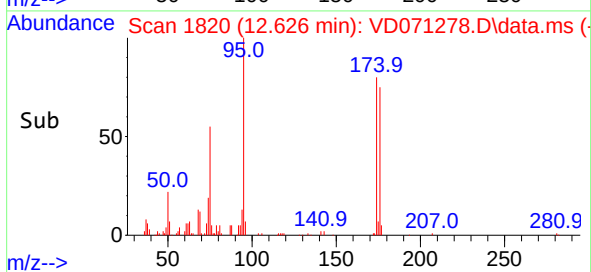
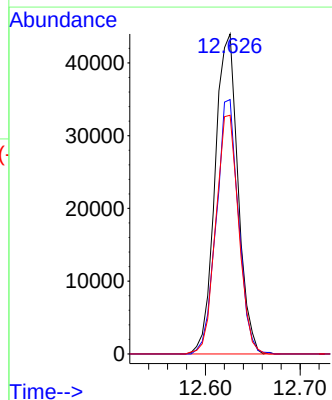
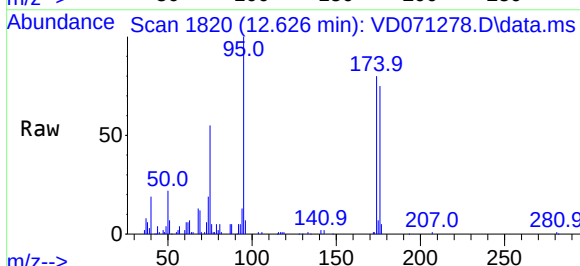
Tgt Ion: 95 Resp: 73969

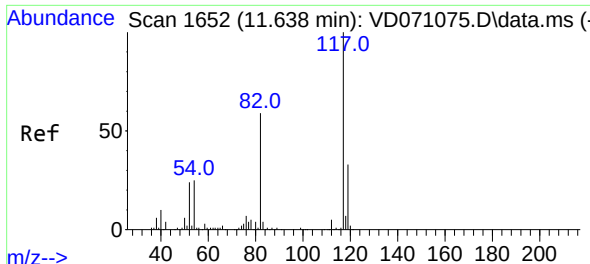
Ion Ratio Lower Upper

95 100

174 76.6 0.0 159.4

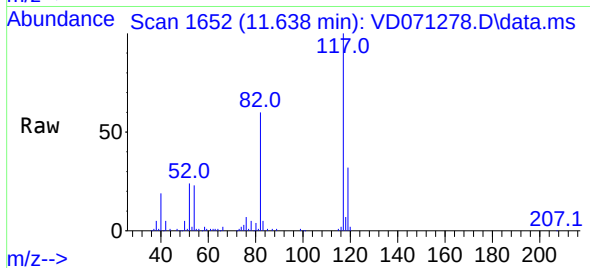
176 74.2 0.0 154.0



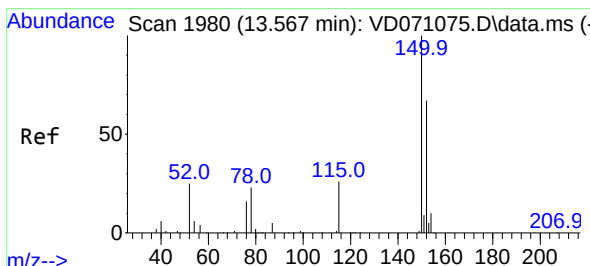
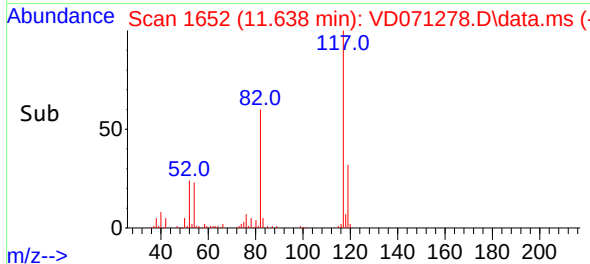
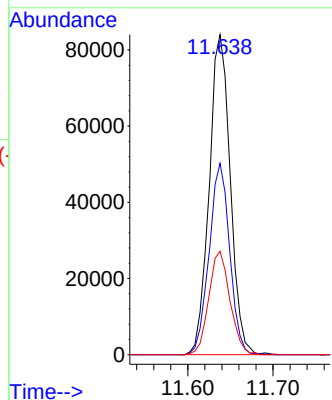


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1170
Delta R.T. -0.000 min
Lab File: VD071278.D
Acq: 11 Dec 2021 19:09

Instrument :
MSVOA_D
ClientSampleId :

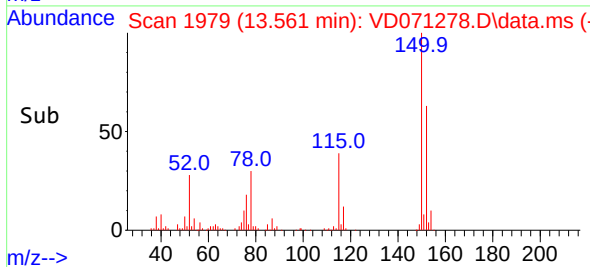
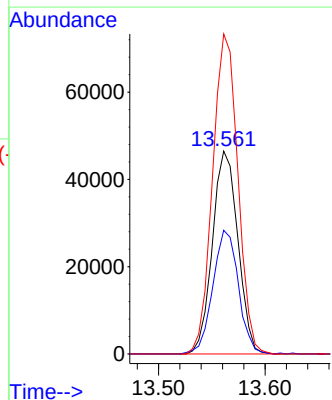
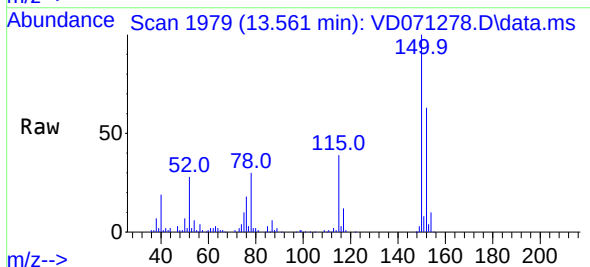


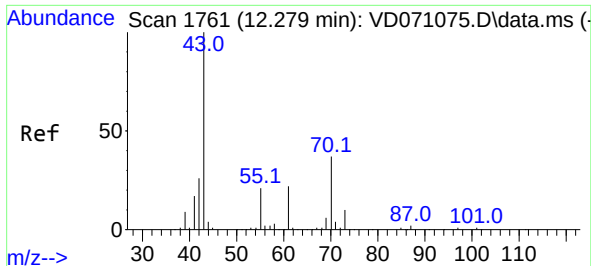
Tgt Ion:117 Resp: 144269
Ion Ratio Lower Upper
117 100
82 59.8 44.7 67.1
119 32.3 26.2 39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.561 min Scan# 1979
Delta R.T. -0.006 min
Lab File: VD071278.D
Acq: 11 Dec 2021 19:09

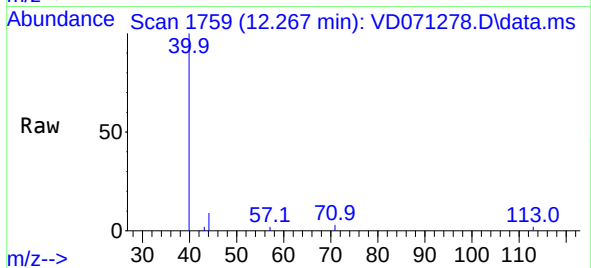
Tgt Ion:152 Resp: 77099
Ion Ratio Lower Upper
152 100
115 61.2 29.8 89.3
150 156.5 0.0 349.2



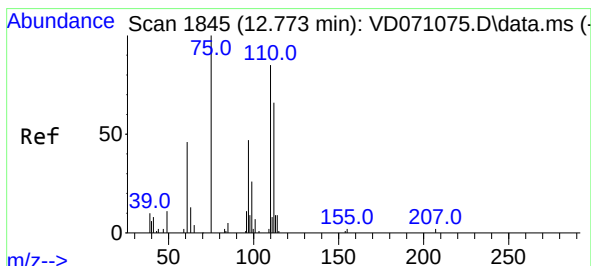
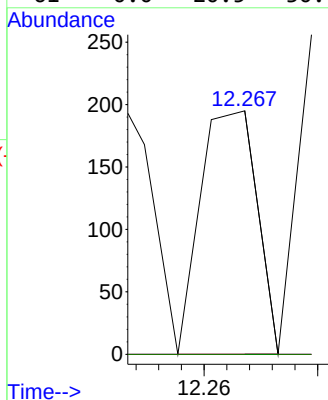
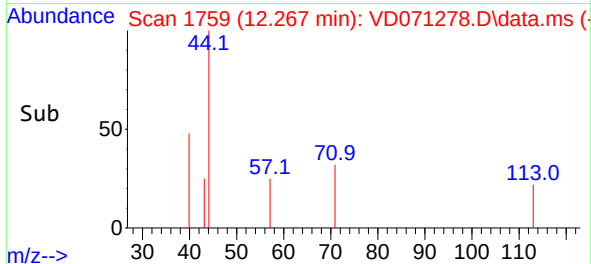


#74
N-amyl acetate
Concen: 5.779 ug/l
RT: 12.267 min Scan# 11
Delta R.T. -0.012 min
Lab File: VD071278.D
Acq: 11 Dec 2021 19:09

Instrument :
MSVOA_D
ClientSampleId :

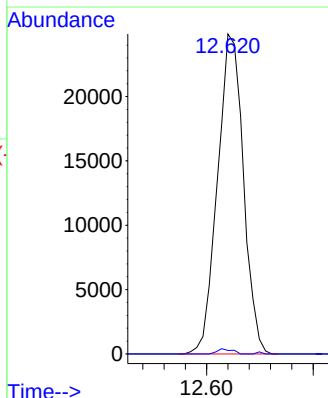
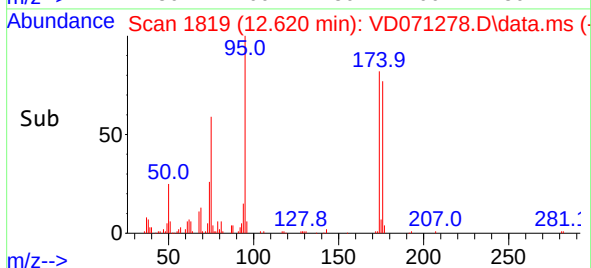
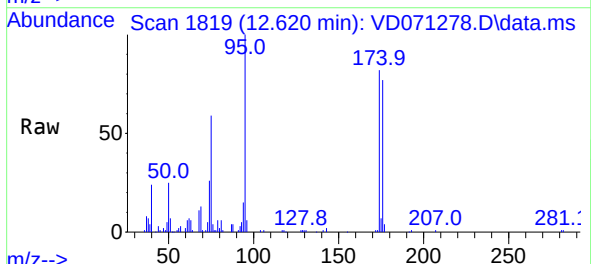


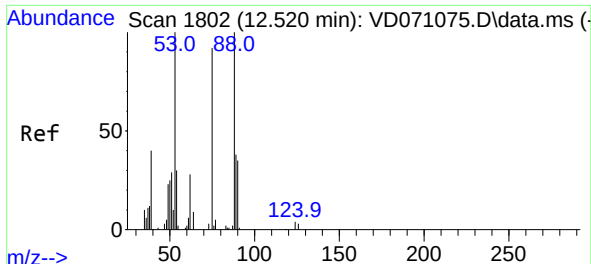
Tgt Ion:	43	Resp:	135
Ion	Ratio	Lower	Upper
43	100		
70	0.0	36.6	55.0#
55	0.0	22.5	33.7#
61	0.0	20.5	30.7#



#76
1,2,3-Trichloropropane
Concen: 57.012 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.153 min
Lab File: VD071278.D
Acq: 11 Dec 2021 19:09

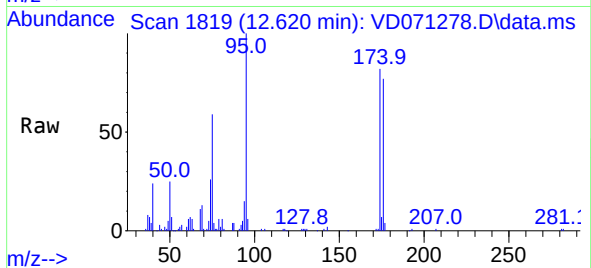
Tgt Ion:	75	Resp:	41879
Ion	Ratio	Lower	Upper
75	100		
77	1.0	158.4	475.3#



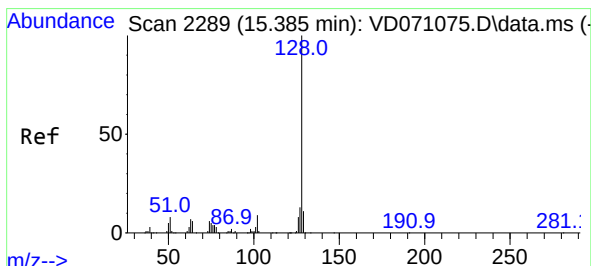
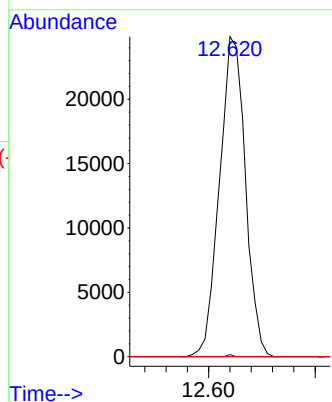
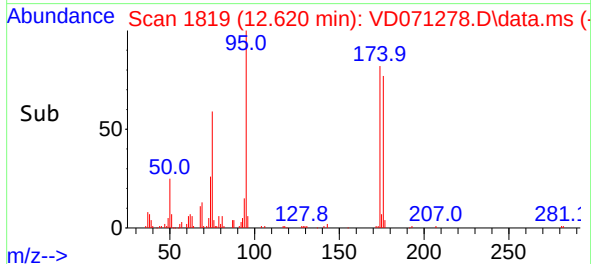


#81
trans-1,4-Dichloro-2-butene
Concen: 123.723 ug/l
RT: 12.620 min Scan# 1802
Delta R.T. 0.100 min
Lab File: VD071278.D
Acq: 11 Dec 2021 19:09

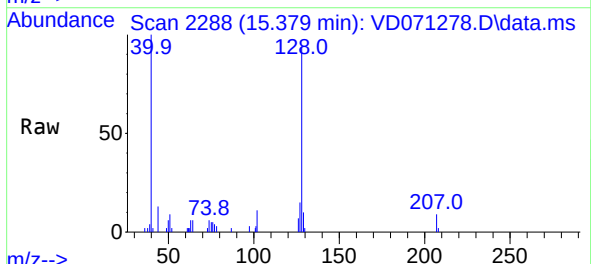
Instrument :
MSVOA_D
ClientSampleId :



Tgt Ion: 75 Resp: 41879
Ion Ratio Lower Upper
75 100
53 0.1 62.6 94.0#
89 0.0 34.5 51.7#



#95
Naphthalene
Concen: 8.330 ug/l
RT: 15.379 min Scan# 2288
Delta R.T. -0.006 min
Lab File: VD071278.D
Acq: 11 Dec 2021 19:09



Tgt Ion: 128 Resp: 18749
Ion Ratio Lower Upper
128 100
127 14.2 10.7 16.1
129 10.9 8.7 13.1

