

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD060922\Not reviewed data\
 Data File : VD073507.D
 Acq On : 09 Jun 2022 13:55
 Operator : VA/SY
 Sample : VD0609SBL01
 Misc : 5.00G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

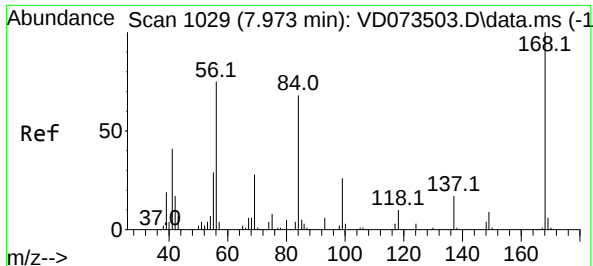
Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 10 17:16:43 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D060922S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 09 12:33:32 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.973	168	275058	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.856	114	508036	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.632	117	571003	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	289633	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.320	65	143733	48.694	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	97.380%
35) Dibromofluoromethane	7.909	113	165082	50.532	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	101.060%
50) Toluene-d8	10.332	98	623766	50.501	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	=	101.000%
62) 4-Bromofluorobenzene	12.620	95	274064	61.121	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	=	122.240%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.991	85	4416	1.684	ug/l	85
3) Chloromethane	2.209	50	4004	1.488	ug/l	97
4) Vinyl Chloride	2.350	62	3704	1.469	ug/l	100
5) Bromomethane	2.773	94	3399	1.880	ug/l #	77
6) Chloroethane	2.926	64	1840	1.145	ug/l #	53
7) Trichlorofluoromethane	3.262	101	8076	1.634	ug/l #	75
9) 1,1,2-Trichlorotrifluo...	4.091	101	4816	1.704	ug/l	86
10) Methyl Iodide	4.303	142	4362	5.351	ug/l #	85
11) Tert butyl alcohol	5.179	59	35573	Below Cal	#	77
12) 1,1-Dichloroethene	4.068	96	3317	1.236	ug/l	94
16) Acetone	4.156	43	6230	11.987	ug/l	97
17) Carbon Disulfide	4.403	76	12862	1.512	ug/l	95
18) Methyl Acetate	4.726	43	389	1.627	ug/l #	55
20) Methylene Chloride	4.950	84	20441	3.220	ug/l #	80
25) 2-Butanone	7.197	43	5326	6.965	ug/l	97
26) 2,2-Dichloropropane	7.197	77	10786	2.177	ug/l #	75
29) Tetrahydrofuran	7.556	42	735	1.507	ug/l #	64
31) Cyclohexane	7.973	56	12468	2.507	ug/l #	33
32) 1,1,1-Trichloroethane	7.897	97	5715	1.098	ug/l #	51
36) 1,1-Dichloropropene	8.108	75	5797	1.181	ug/l	98
38) Carbon Tetrachloride	8.079	117	6288	1.225	ug/l #	66
39) Methylcyclohexane	9.344	83	7873	1.377	ug/l	89
49) 1,4-Dioxane	9.455	88	71	3.099	ug/l #	21
51) 4-Methyl-2-Pentanone	10.220	43	3381	1.752	ug/l	96
59) 2-Hexanone	10.967	43	1709	1.293	ug/l	85
68) m/p-Xylenes	11.838	106	8720	1.082	ug/l	95
76) 1,2,3-Trichloropropane	12.620	75	135955	48.319	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.620	75	135955	113.414	ug/l #	7
95) Naphthalene	15.385	128	4540	4.601	ug/l	96

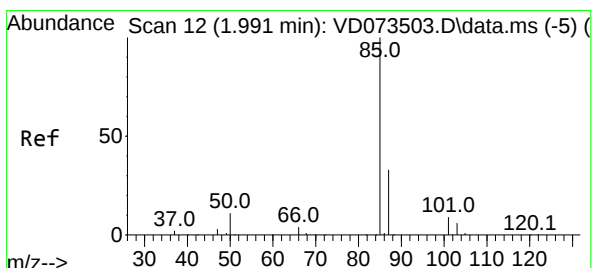
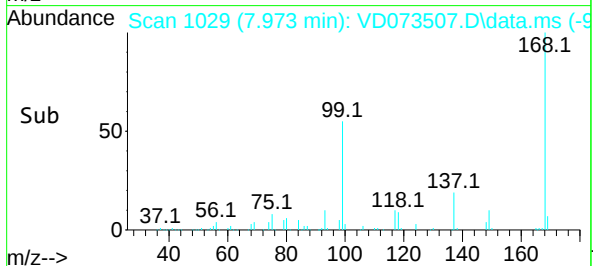
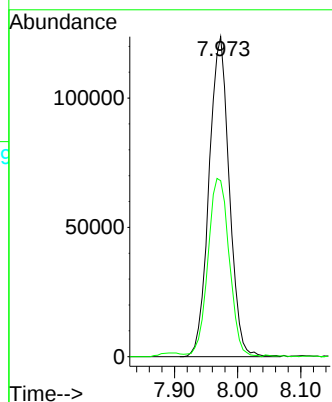
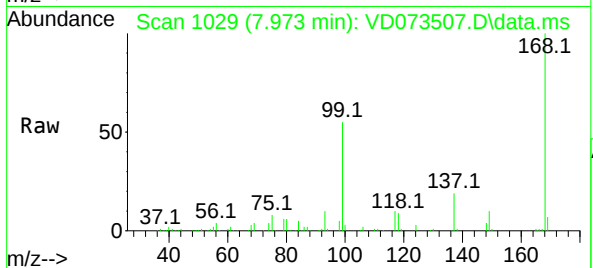
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. 0.000 min
Lab File: VD073507.D
Acq: 09 Jun 2022 13:55

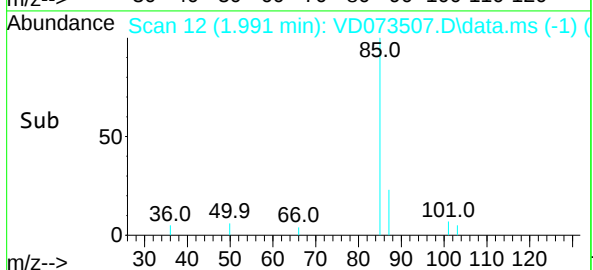
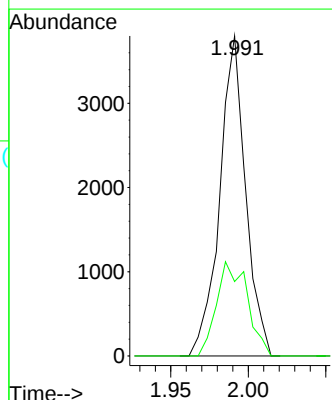
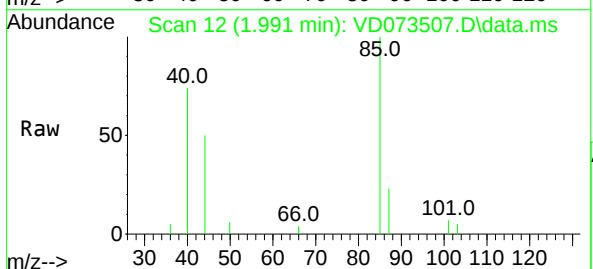
Instrument :
MSVOA_D
ClientSampleId :

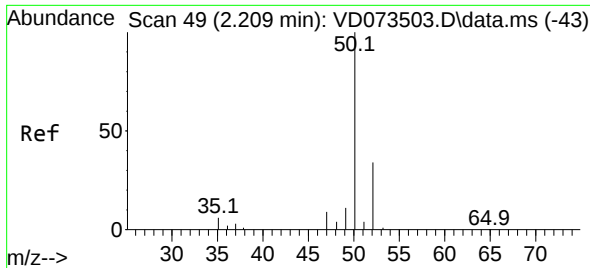
Tgt Ion:168 Resp: 275058
Ion Ratio Lower Upper
168 100
99 54.7 49.8 74.6



#2
Dichlorodifluoromethane
Concen: 1.684 ug/l
RT: 1.991 min Scan# 12
Delta R.T. 0.000 min
Lab File: VD073507.D
Acq: 09 Jun 2022 13:55

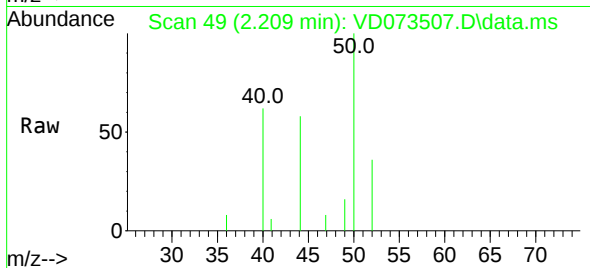
Tgt Ion: 85 Resp: 4416
Ion Ratio Lower Upper
85 100
87 23.2 15.7 47.0



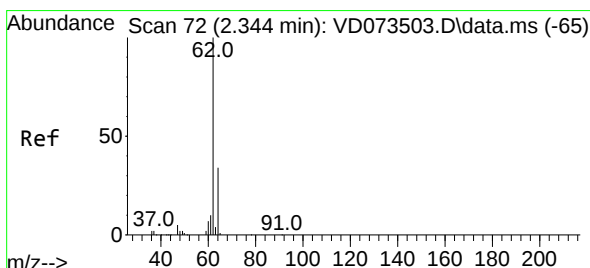
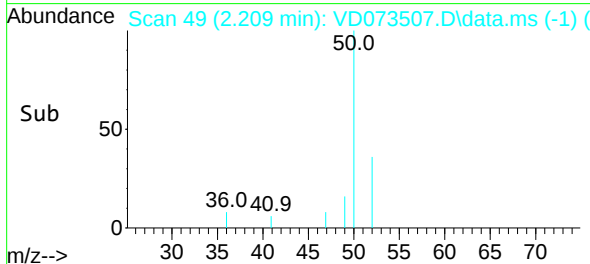
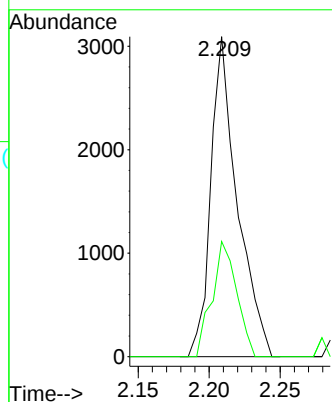


#3
Chloromethane
Concen: 1.488 ug/l
RT: 2.209 min Scan# 49
Delta R.T. -0.000 min
Lab File: VD073507.D
Acq: 09 Jun 2022 13:55

Instrument :
MSVOA_D
ClientSampleId :

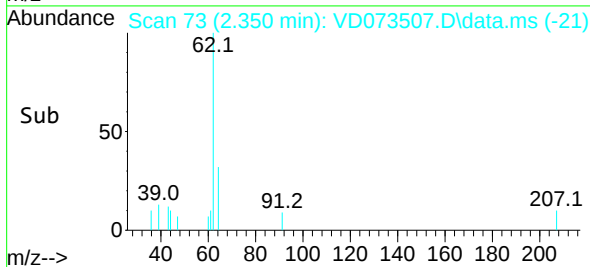
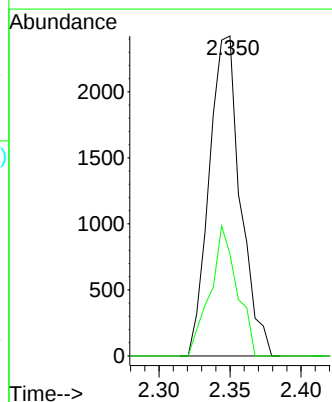
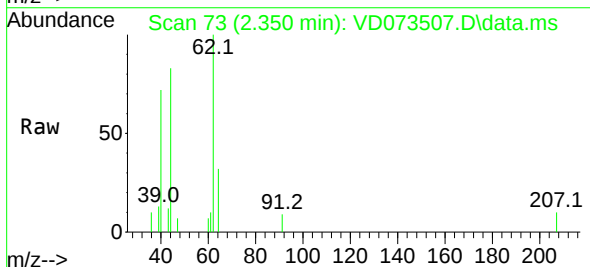


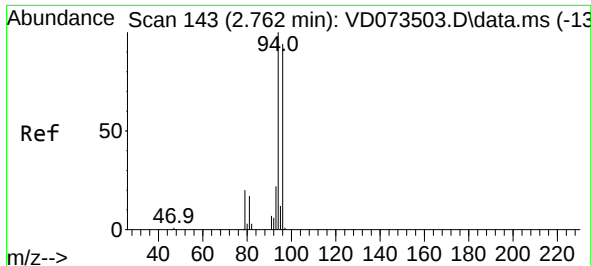
Tgt Ion: 50 Resp: 4004
Ion Ratio Lower Upper
50 100
52 36.0 27.4 41.0



#4
Vinyl Chloride
Concen: 1.469 ug/l
RT: 2.350 min Scan# 73
Delta R.T. 0.006 min
Lab File: VD073507.D
Acq: 09 Jun 2022 13:55

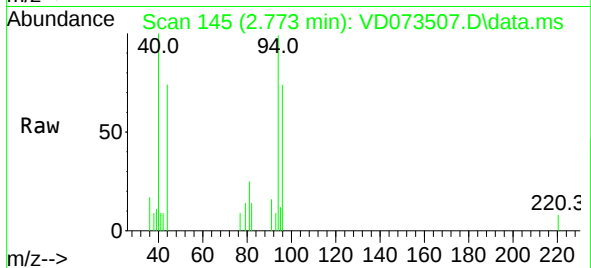
Tgt Ion: 62 Resp: 3704
Ion Ratio Lower Upper
62 100
64 31.8 25.4 38.0



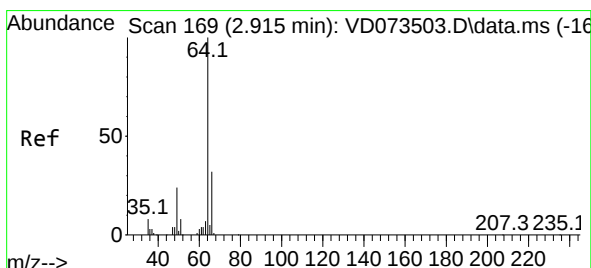
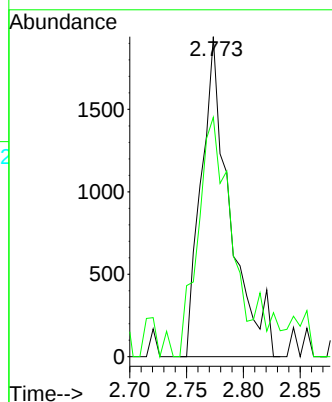
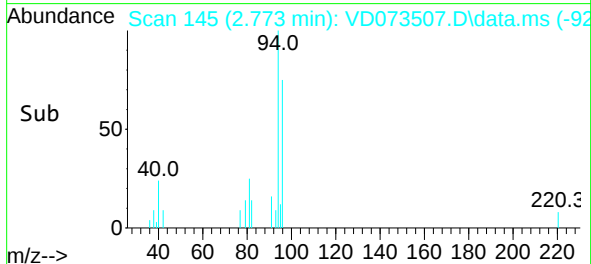


#5
Bromomethane
Concen: 1.880 ug/l
RT: 2.773 min Scan# 143
Delta R.T. 0.011 min
Lab File: VD073507.D
Acq: 09 Jun 2022 13:55

Instrument :
MSVOA_D
ClientSampleId :

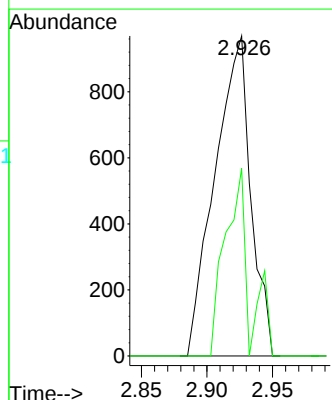
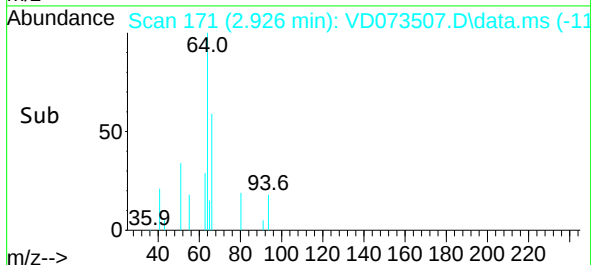
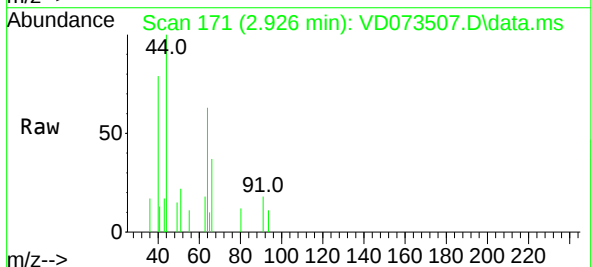


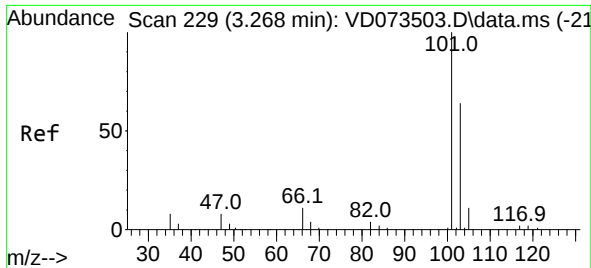
Tgt Ion: 94 Resp: 3399
Ion Ratio Lower Upper
94 100
96 74.8 77.6 116.4#



#6
Chloroethane
Concen: 1.145 ug/l
RT: 2.926 min Scan# 171
Delta R.T. 0.011 min
Lab File: VD073507.D
Acq: 09 Jun 2022 13:55

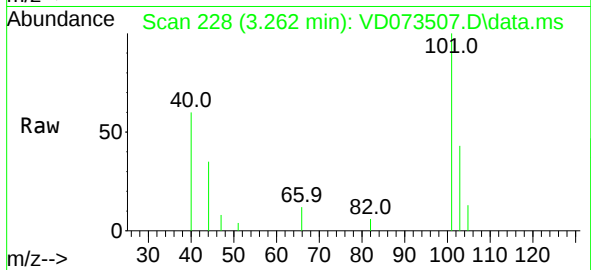
Tgt Ion: 64 Resp: 1840
Ion Ratio Lower Upper
64 100
66 58.6 25.9 38.9#



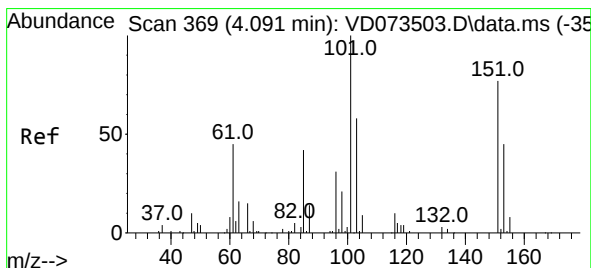
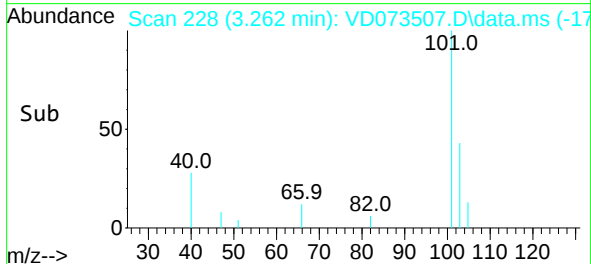
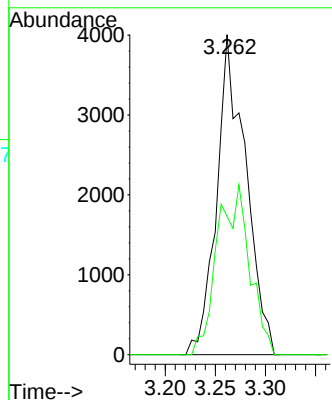


#7
Trichlorofluoromethane
Concen: 1.634 ug/l
RT: 3.262 min Scan# 21
Delta R.T. -0.006 min
Lab File: VD073507.D
Acq: 09 Jun 2022 13:55

Instrument :
MSVOA_D
ClientSampleId :

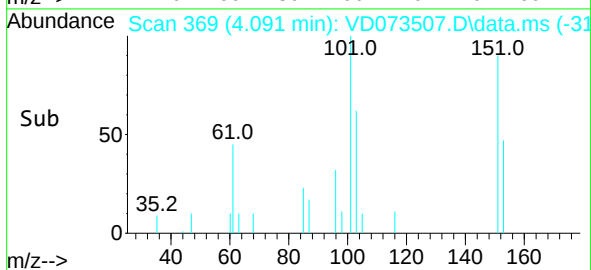
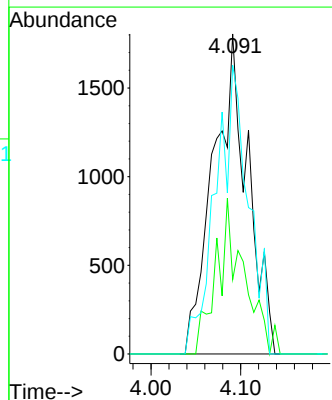
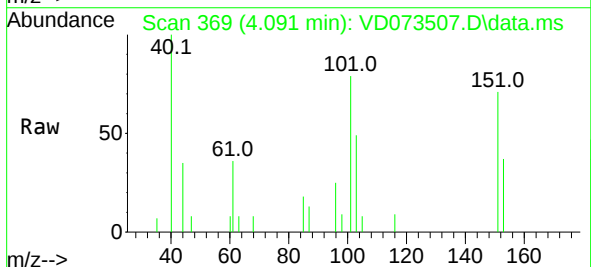


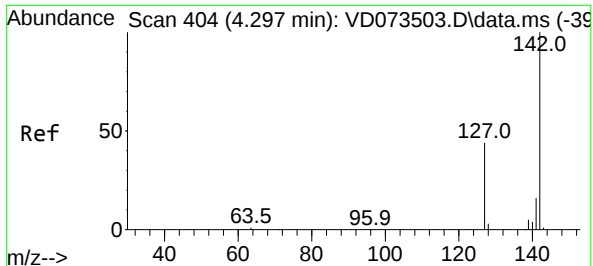
Tgt Ion:101 Resp: 8076
Ion Ratio Lower Upper
101 100
103 43.2 50.1 75.1#



#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.704 ug/l
RT: 4.091 min Scan# 369
Delta R.T. 0.000 min
Lab File: VD073507.D
Acq: 09 Jun 2022 13:55

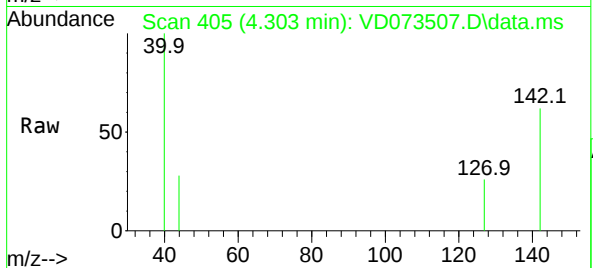
Tgt Ion:101 Resp: 4816
Ion Ratio Lower Upper
101 100
85 38.9 36.4 54.6
151 85.9 57.3 85.9



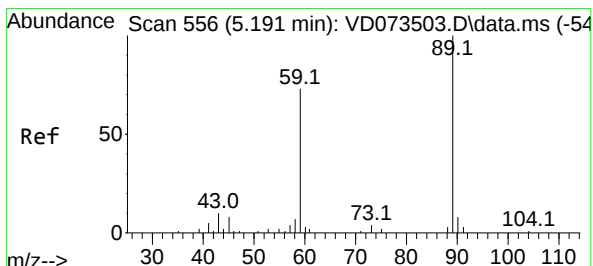
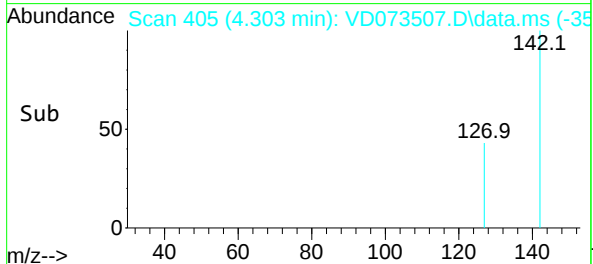
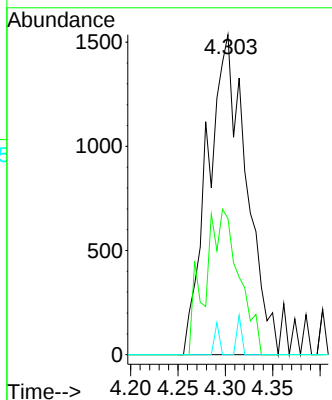


#10
Methyl Iodide
Concen: 5.351 ug/l
RT: 4.303 min Scan# 404
Delta R.T. 0.006 min
Lab File: VD073507.D
Acq: 09 Jun 2022 13:55

Instrument :
MSVOA_D
ClientSampleId :

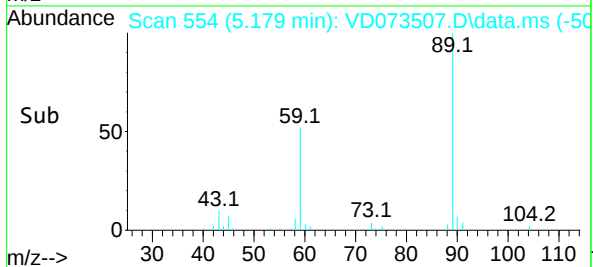
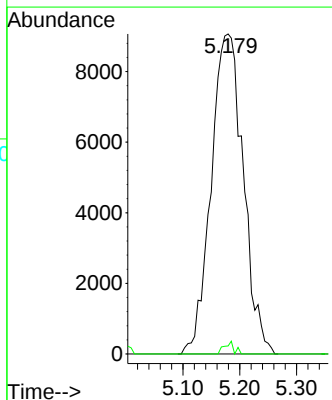
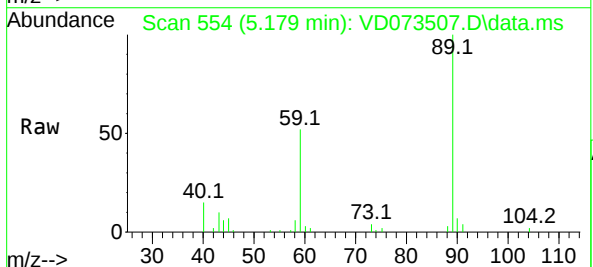


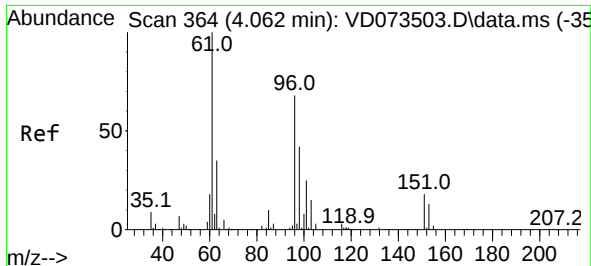
Tgt Ion:142 Resp: 4362
Ion Ratio Lower Upper
142 100
127 40.0 37.3 55.9
141 1.2 11.7 17.5#



#11
Tert butyl alcohol
Concen: Below Cal
RT: 5.179 min Scan# 554
Delta R.T. -0.012 min
Lab File: VD073507.D
Acq: 09 Jun 2022 13:55

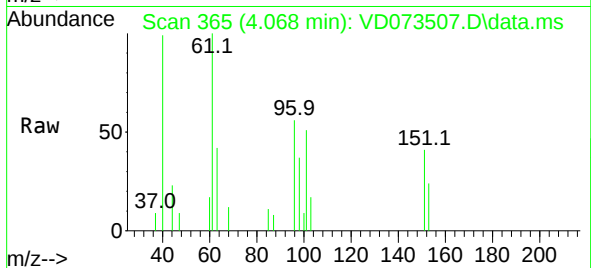
Tgt Ion: 59 Resp: 35573
Ion Ratio Lower Upper
59 100
57 1.2 7.8 11.6#



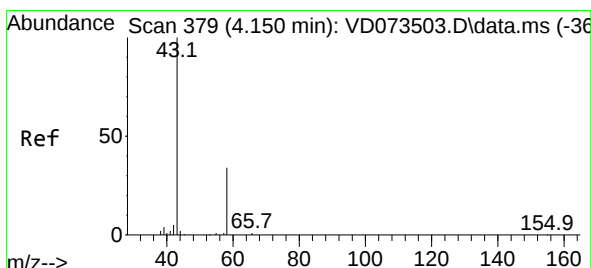
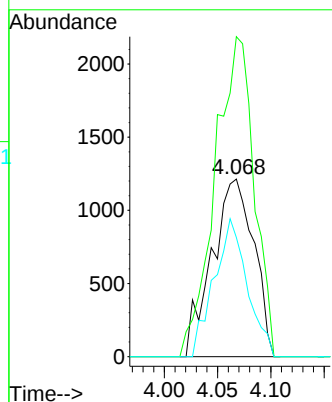
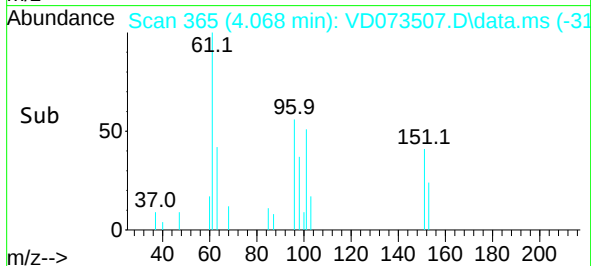


#12
1,1-Dichloroethene
Concen: 1.236 ug/l
RT: 4.068 min Scan# 301
Delta R.T. 0.006 min
Lab File: VD073507.D
Acq: 09 Jun 2022 13:55

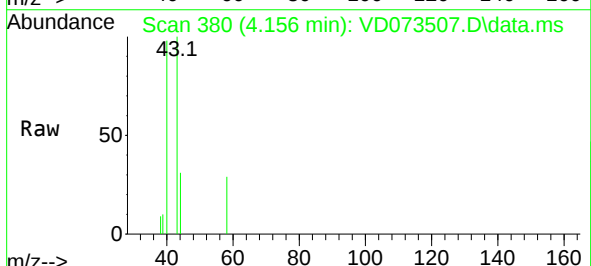
Instrument :
MSVOA_D
ClientSampleId :



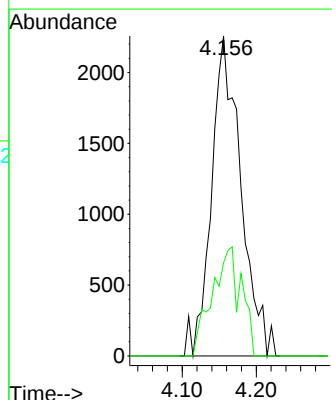
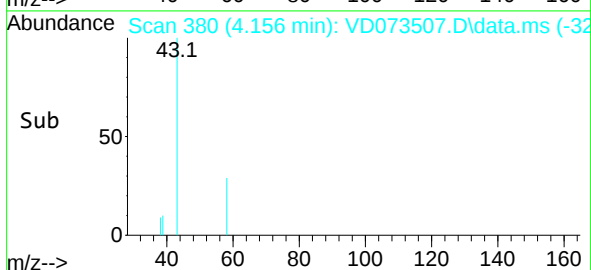
Tgt Ion: 96 Resp: 3317
Ion Ratio Lower Upper
96 100
61 180.1 138.5 207.7
98 67.1 48.6 73.0

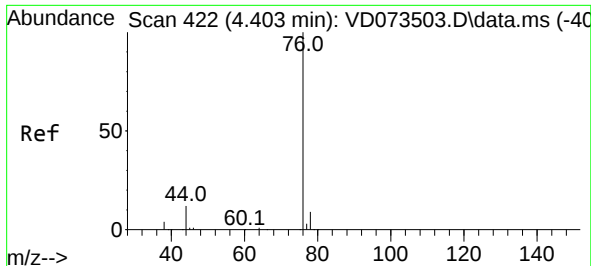


#16
Acetone
Concen: 11.987 ug/l
RT: 4.156 min Scan# 380
Delta R.T. 0.006 min
Lab File: VD073507.D
Acq: 09 Jun 2022 13:55



Tgt Ion: 43 Resp: 6230
Ion Ratio Lower Upper
43 100
58 29.1 22.1 33.1

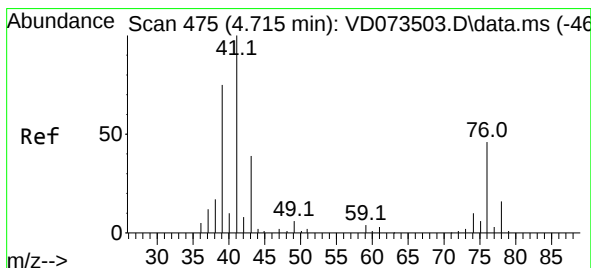
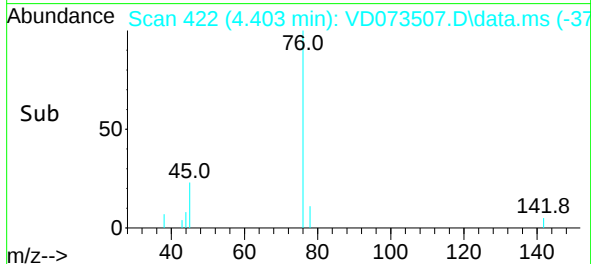
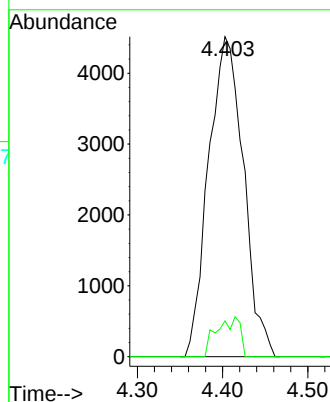
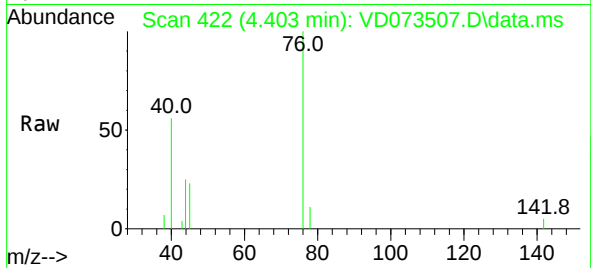




#17
Carbon Disulfide
Concen: 1.512 ug/l
RT: 4.403 min Scan# 411
Delta R.T. -0.000 min
Lab File: VD073507.D
Acq: 09 Jun 2022 13:55

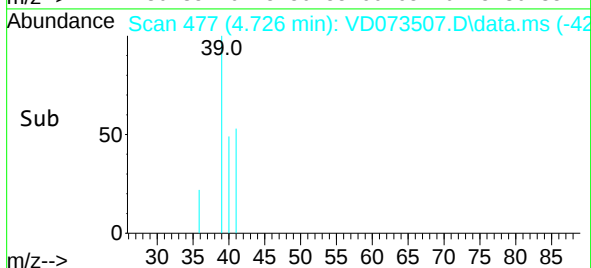
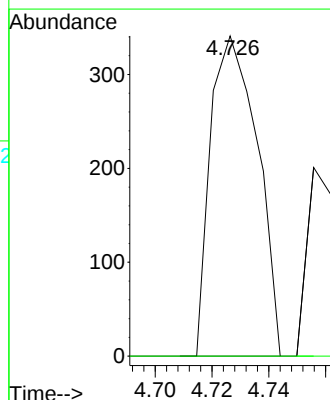
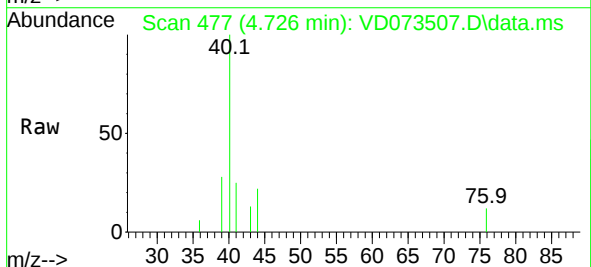
Instrument :
MSVOA_D
ClientSampleId :

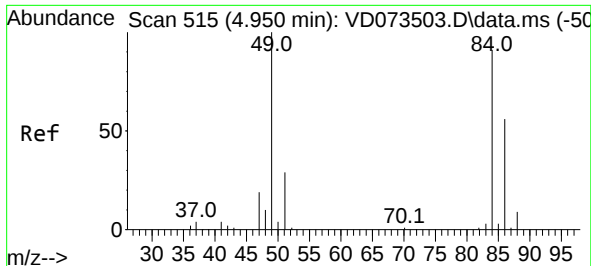
Tgt Ion: 76 Resp: 12862
Ion Ratio Lower Upper
76 100
78 11.2 7.5 11.3



#18
Methyl Acetate
Concen: 1.627 ug/l
RT: 4.726 min Scan# 477
Delta R.T. 0.011 min
Lab File: VD073507.D
Acq: 09 Jun 2022 13:55

Tgt Ion: 43 Resp: 389
Ion Ratio Lower Upper
43 100
74 0.0 16.7 25.1#





#20

Methylene Chloride

Concen: 3.220 ug/l

RT: 4.950 min Scan# 515

Delta R.T. -0.000 min

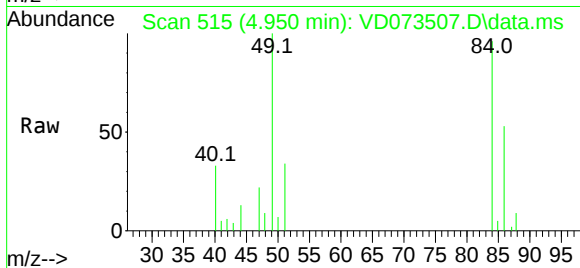
Lab File: VD073507.D

Acq: 09 Jun 2022 13:55

Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion: 84 Resp: 20441

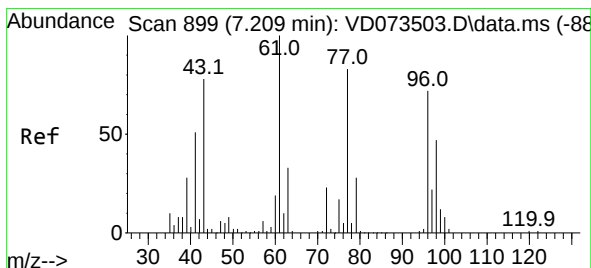
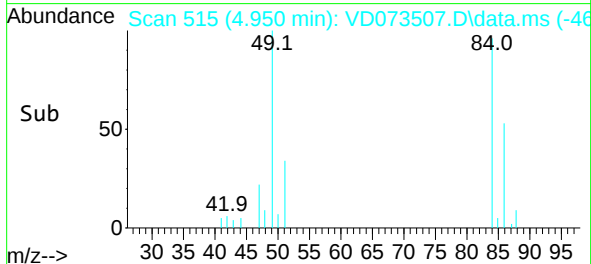
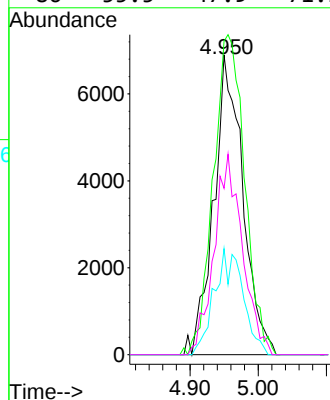
Ion Ratio Lower Upper

84 100

49 104.5 112.8 169.2#

51 35.4 32.6 48.8

86 55.5 47.9 71.9



#25

2-Butanone

Concen: 6.965 ug/l

RT: 7.197 min Scan# 897

Delta R.T. -0.012 min

Lab File: VD073507.D

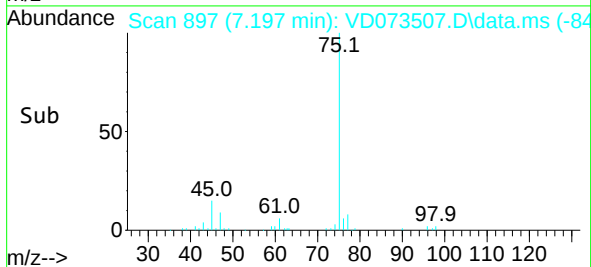
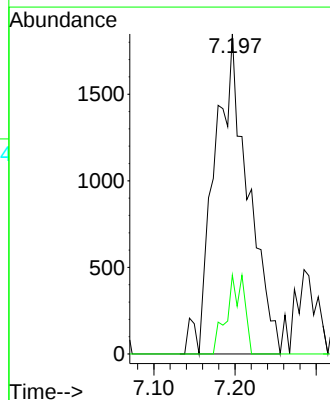
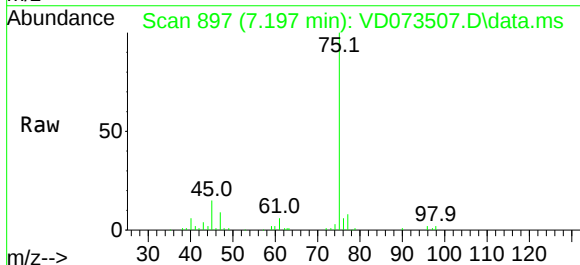
Acq: 09 Jun 2022 13:55

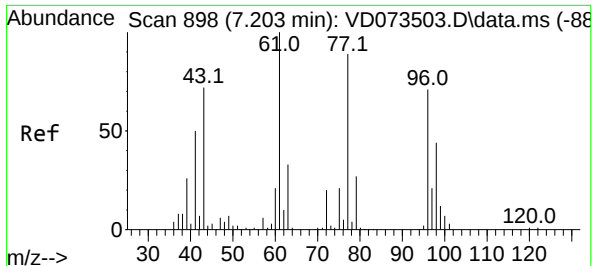
Tgt Ion: 43 Resp: 5326

Ion Ratio Lower Upper

43 100

72 24.7 18.6 27.8





#26

2,2-Dichloropropane

Concen: 2.177 ug/l

RT: 7.197 min Scan# 898

Delta R.T. -0.006 min

Lab File: VD073507.D

Acq: 09 Jun 2022 13:55

Instrument :

MSVOA_D

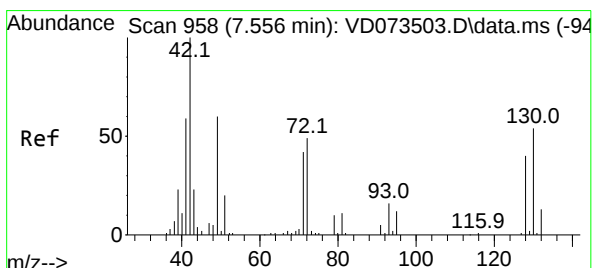
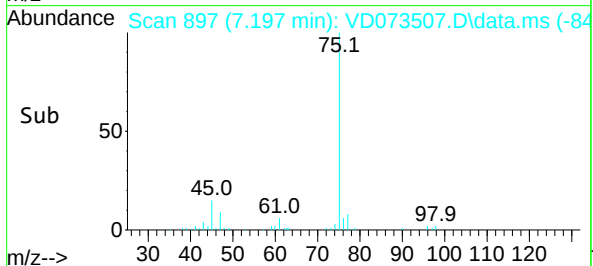
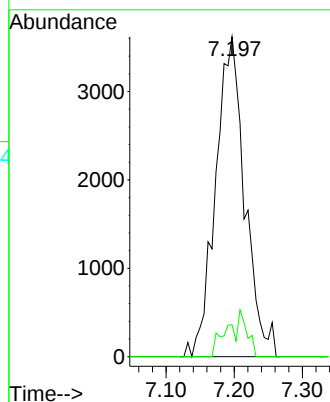
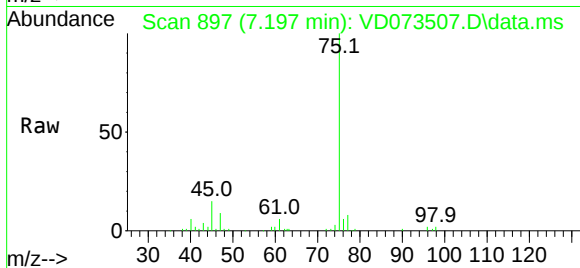
ClientSampleId :

Tgt Ion: 77 Resp: 10786

Ion Ratio Lower Upper

77 100

97 9.8 10.8 32.4#



#29

Tetrahydrofuran

Concen: 1.507 ug/l

RT: 7.556 min Scan# 958

Delta R.T. -0.000 min

Lab File: VD073507.D

Acq: 09 Jun 2022 13:55

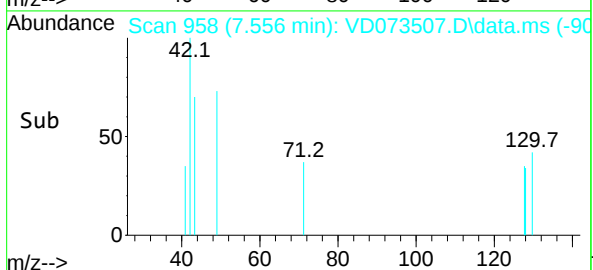
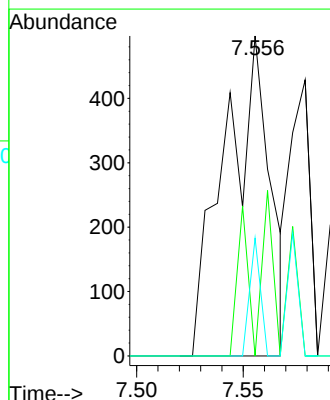
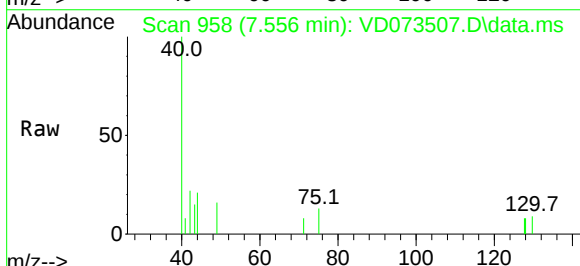
Tgt Ion: 42 Resp: 735

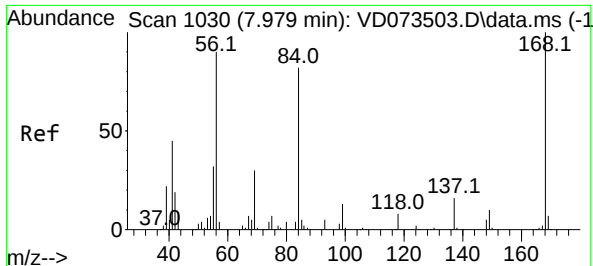
Ion Ratio Lower Upper

42 100

72 22.0 30.7 46.1#

71 8.8 28.6 43.0#





#31

Cyclohexane

Concen: 2.507 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.006 min

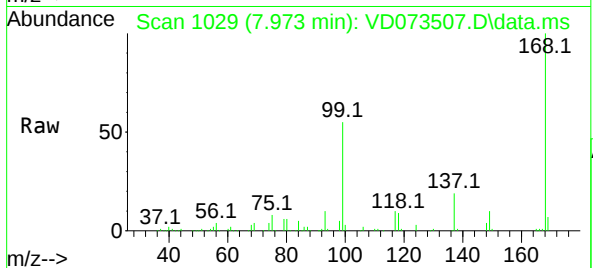
Lab File: VD073507.D

Acq: 09 Jun 2022 13:55

Instrument :

MSVOA_D

ClientSampleId :



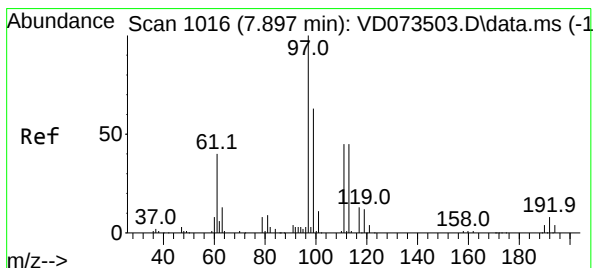
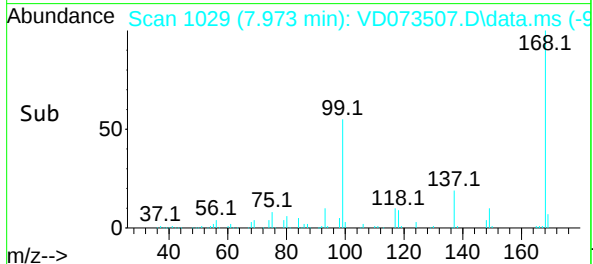
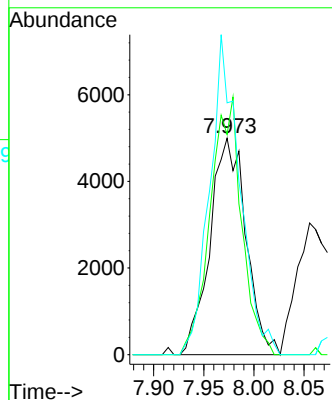
Tgt Ion: 56 Resp: 12468

Ion Ratio Lower Upper

56 100

69 101.7 25.4 38.2#

84 116.3 63.0 94.4#



#32

1,1,1-Trichloroethane

Concen: 1.098 ug/l

RT: 7.897 min Scan# 1016

Delta R.T. -0.000 min

Lab File: VD073507.D

Acq: 09 Jun 2022 13:55

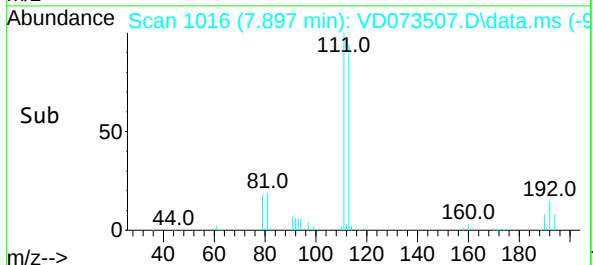
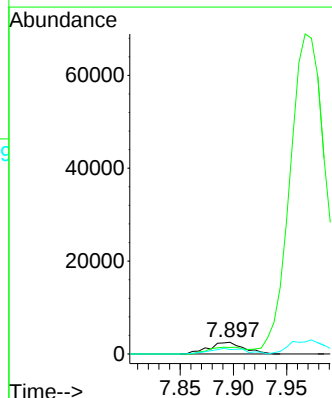
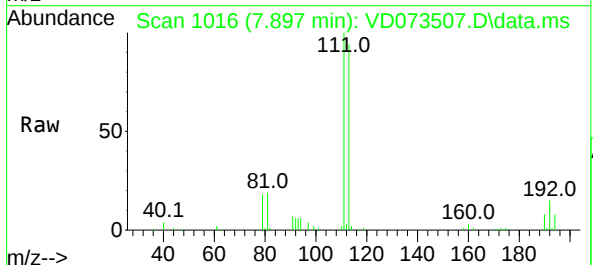
Tgt Ion: 97 Resp: 5715

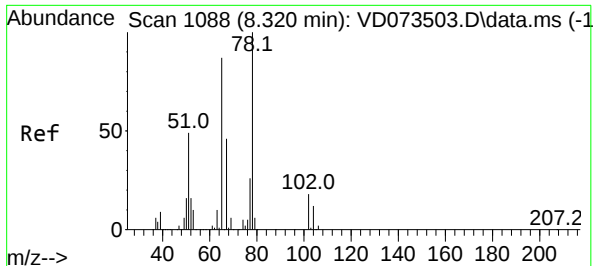
Ion Ratio Lower Upper

97 100

99 0.0 52.4 78.6#

61 49.7 38.0 57.0





#33

1,2-Dichloroethane-d4

Concen: 48.694 ug/l

RT: 8.320 min Scan# 1088

Delta R.T. 0.000 min

Lab File: VD073507.D

Acq: 09 Jun 2022 13:55

Instrument :

MSVOA_D

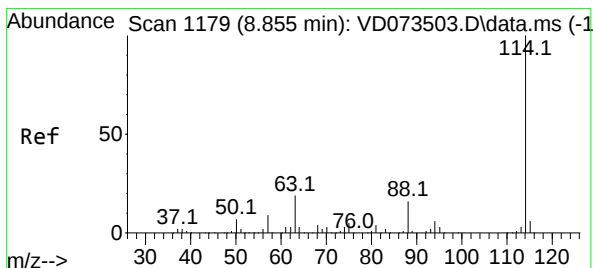
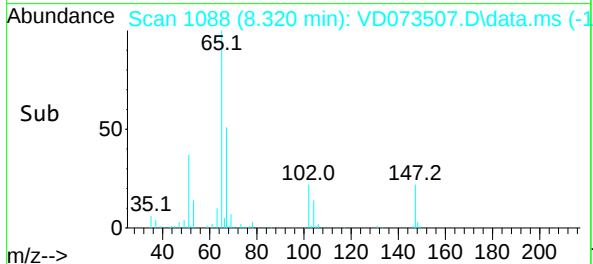
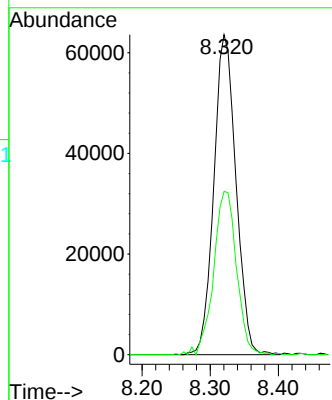
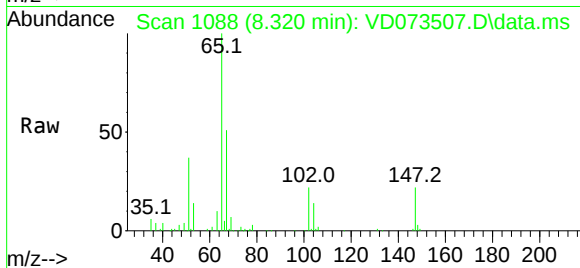
ClientSampleId :

Tgt Ion: 65 Resp: 143733

Ion Ratio Lower Upper

65 100

67 52.8 0.0 101.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.856 min Scan# 1179

Delta R.T. 0.001 min

Lab File: VD073507.D

Acq: 09 Jun 2022 13:55

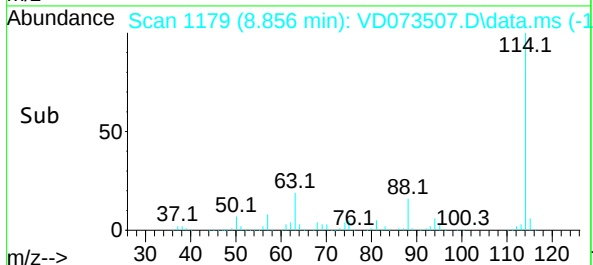
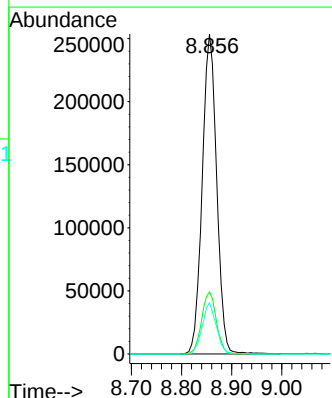
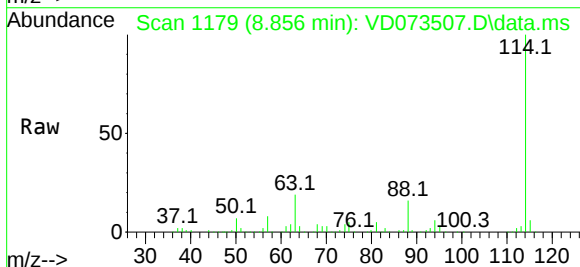
Tgt Ion: 114 Resp: 508036

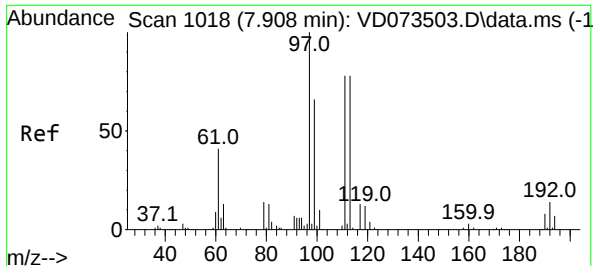
Ion Ratio Lower Upper

114 100

63 19.4 0.0 46.6

88 16.0 0.0 33.2





#35

Dibromofluoromethane

Concen: 50.532 ug/l

RT: 7.909 min Scan# 1018

Delta R.T. 0.000 min

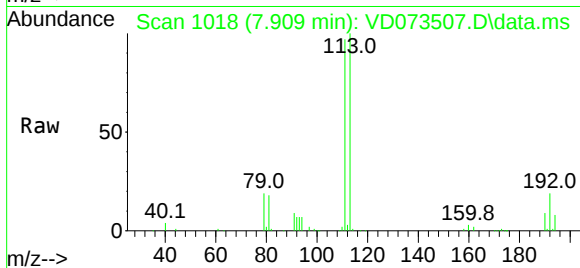
Lab File: VD073507.D

Acq: 09 Jun 2022 13:55

Instrument :

MSVOA_D

ClientSampleId :



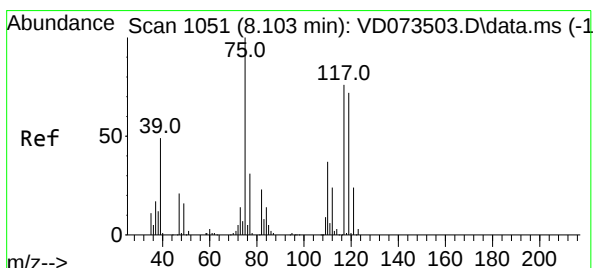
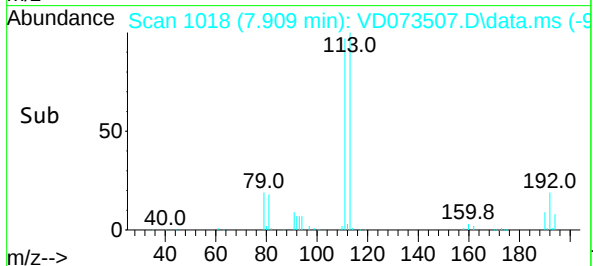
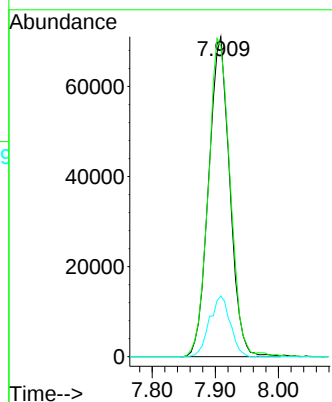
Tgt Ion:113 Resp: 165082

Ion Ratio Lower Upper

113 100

111 103.3 83.8 125.6

192 18.6 14.6 21.8



#36

1,1-Dichloropropene

Concen: 1.181 ug/l

RT: 8.108 min Scan# 1052

Delta R.T. 0.005 min

Lab File: VD073507.D

Acq: 09 Jun 2022 13:55

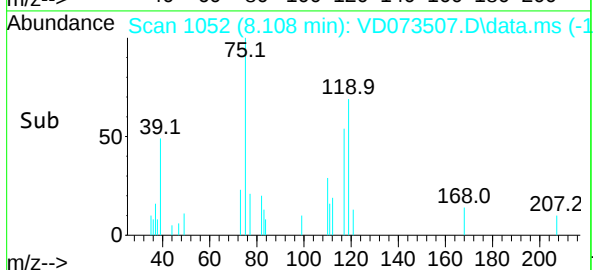
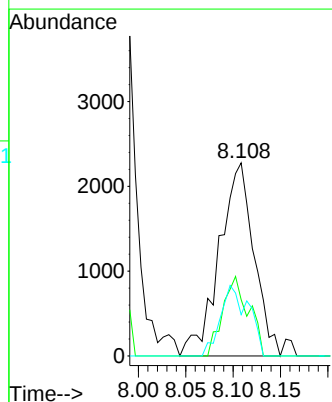
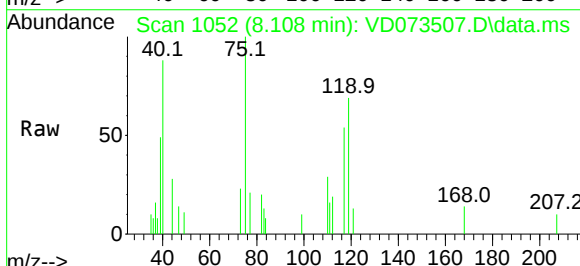
Tgt Ion: 75 Resp: 5797

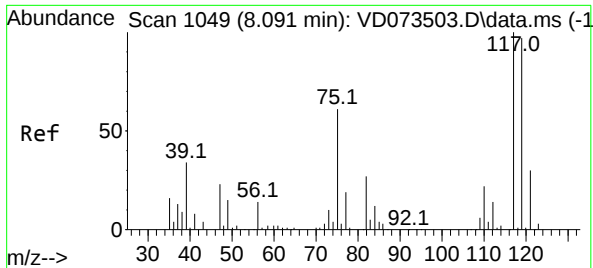
Ion Ratio Lower Upper

75 100

110 30.8 16.4 49.1

77 29.8 24.2 36.2

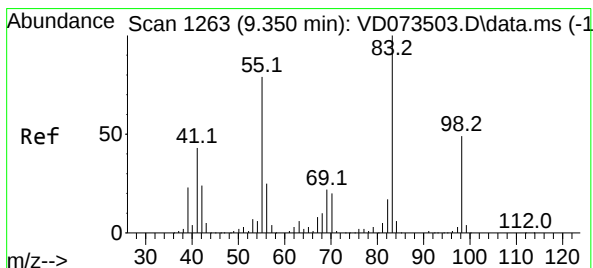
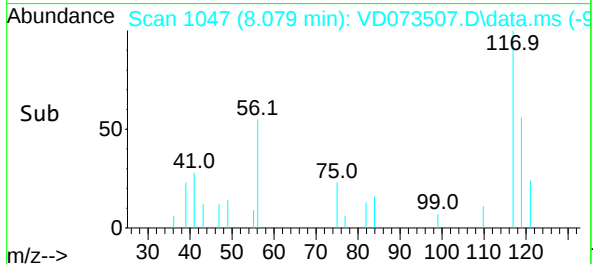
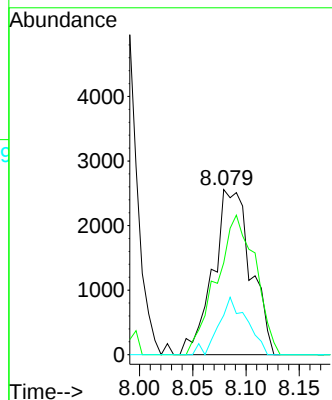
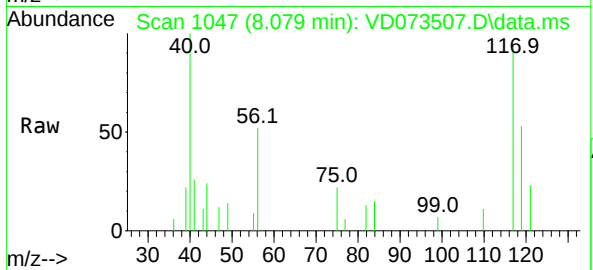




#38
Carbon Tetrachloride
Concen: 1.225 ug/l
RT: 8.079 min Scan# 1049
Delta R.T. -0.012 min
Lab File: VD073507.D
Acq: 09 Jun 2022 13:55

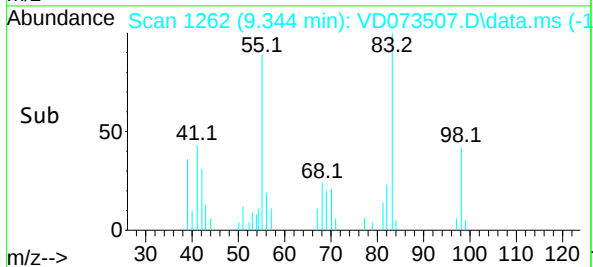
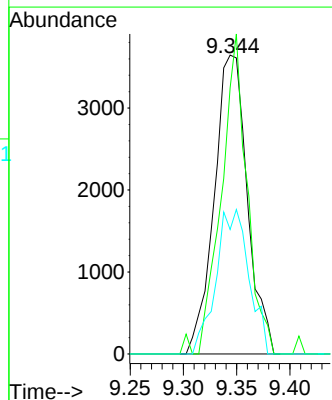
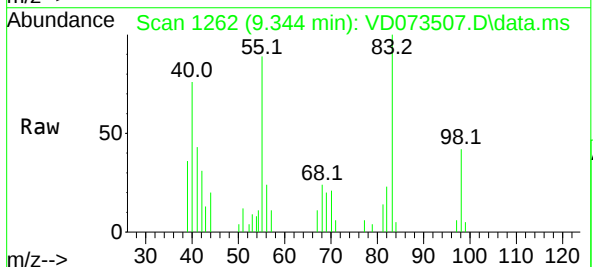
Instrument :
MSVOA_D
ClientSampleId :

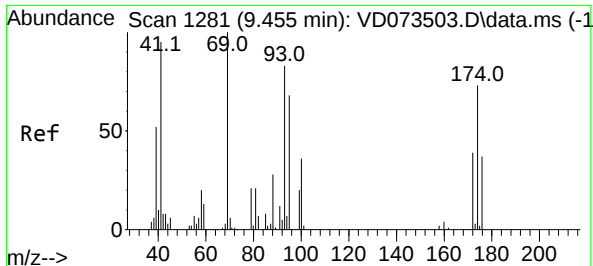
Tgt Ion:117 Resp: 6288
Ion Ratio Lower Upper
117 100
119 55.6 75.8 113.6#
121 23.8 24.5 36.7#



#39
Methylcyclohexane
Concen: 1.377 ug/l
RT: 9.344 min Scan# 1262
Delta R.T. -0.006 min
Lab File: VD073507.D
Acq: 09 Jun 2022 13:55

Tgt Ion: 83 Resp: 7873
Ion Ratio Lower Upper
83 100
55 89.0 63.2 94.8
98 41.7 38.2 57.4





#49

1,4-Dioxane

Concen: 3.099 ug/l

RT: 9.455 min Scan# 1281

Delta R.T. 0.000 min

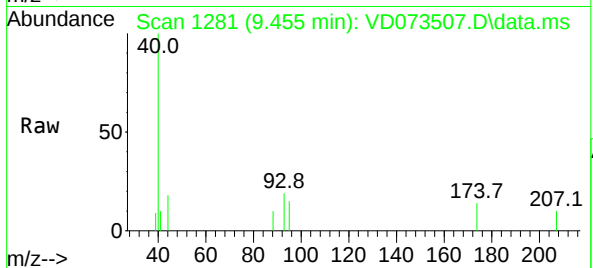
Lab File: VD073507.D

Acq: 09 Jun 2022 13:55

Instrument :

MSVOA_D

ClientSampleId :



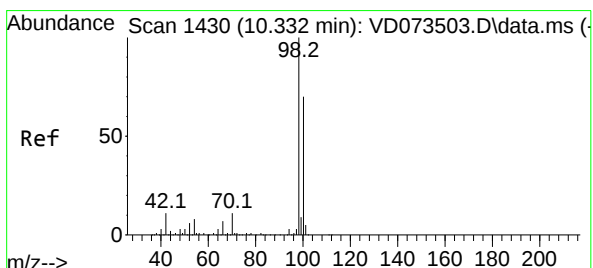
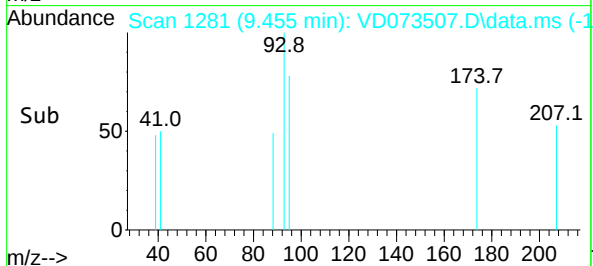
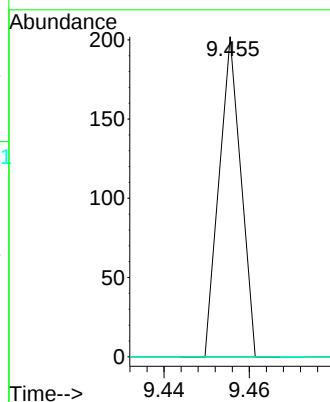
Tgt Ion: 88 Resp: 71

Ion Ratio Lower Upper

88 100

43 0.0 31.0 46.4#

58 0.0 58.1 87.1#



#50

Toluene-d8

Concen: 50.501 ug/l

RT: 10.332 min Scan# 1430

Delta R.T. -0.000 min

Lab File: VD073507.D

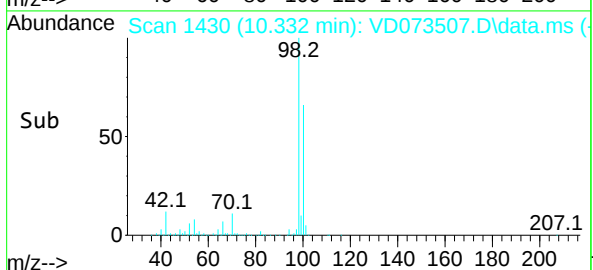
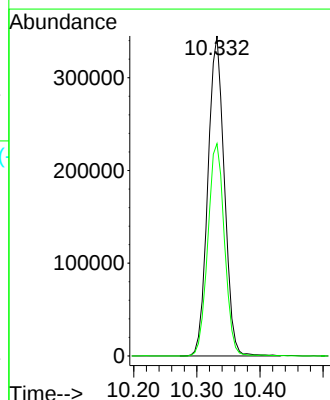
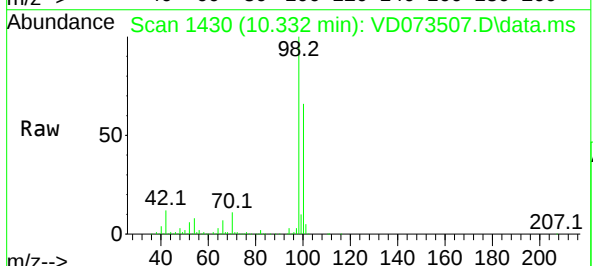
Acq: 09 Jun 2022 13:55

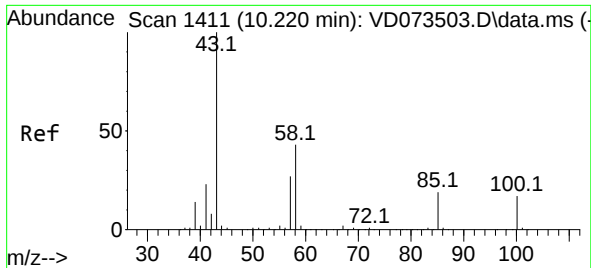
Tgt Ion: 98 Resp: 623766

Ion Ratio Lower Upper

98 100

100 66.9 52.4 78.6

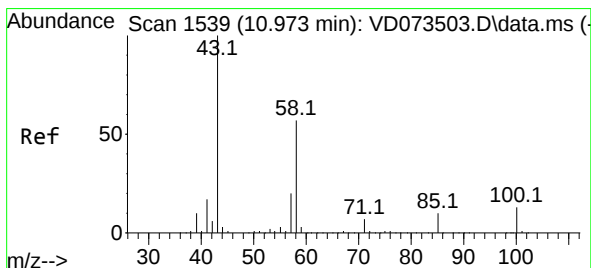
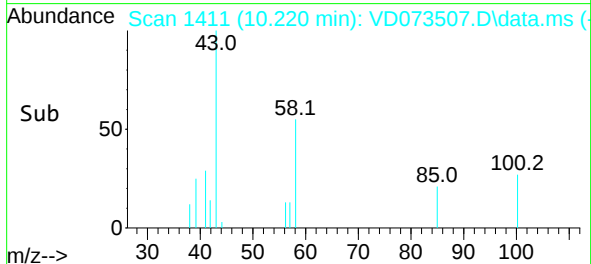
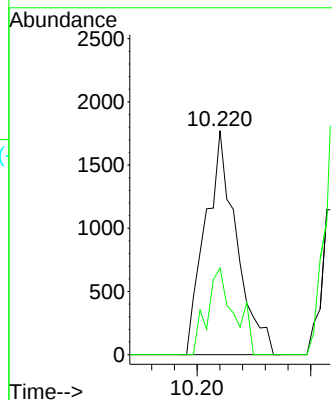
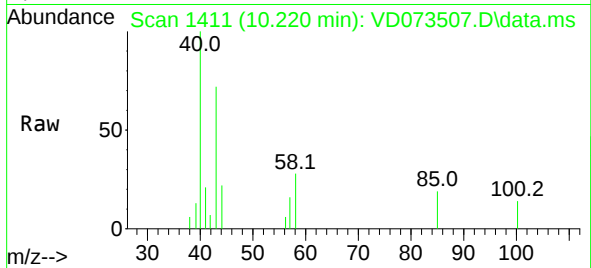




#51
4-Methyl-2-Pentanone
Concen: 1.752 ug/l
RT: 10.220 min Scan# 1411
Delta R.T. 0.000 min
Lab File: VD073507.D
Acq: 09 Jun 2022 13:55

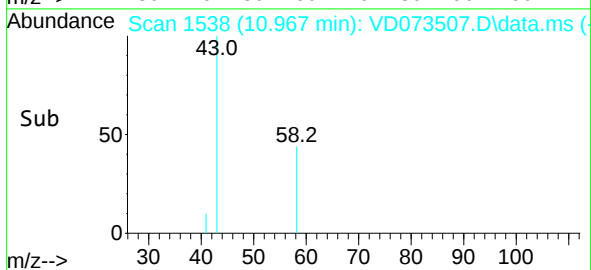
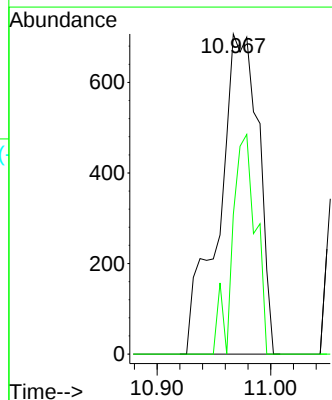
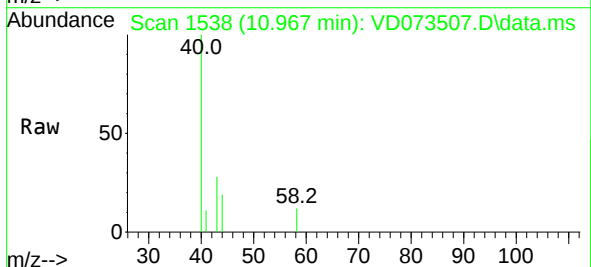
Instrument :
MSVOA_D
ClientSampleId :

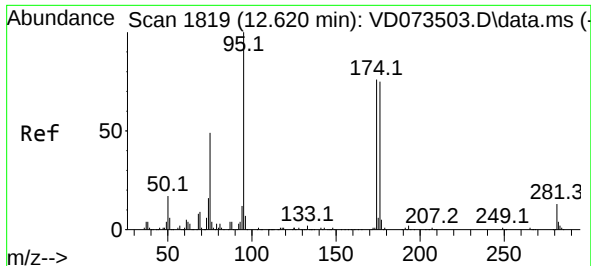
Tgt Ion: 43 Resp: 3381
Ion Ratio Lower Upper
43 100
58 33.3 28.6 43.0



#59
2-Hexanone
Concen: 1.293 ug/l
RT: 10.967 min Scan# 1538
Delta R.T. -0.006 min
Lab File: VD073507.D
Acq: 09 Jun 2022 13:55

Tgt Ion: 43 Resp: 1709
Ion Ratio Lower Upper
43 100
58 40.6 25.3 75.9

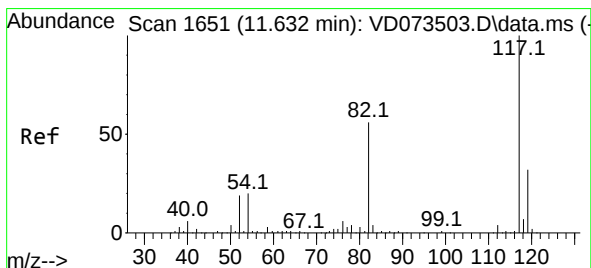
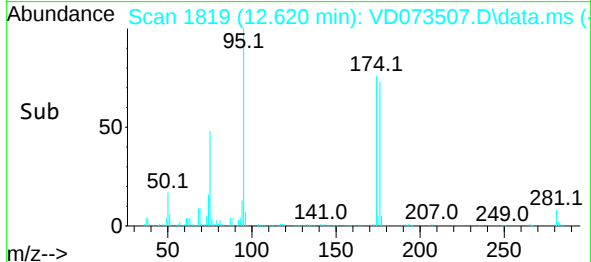
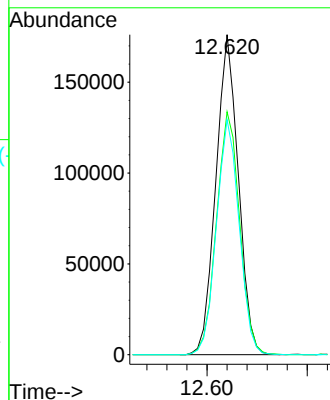
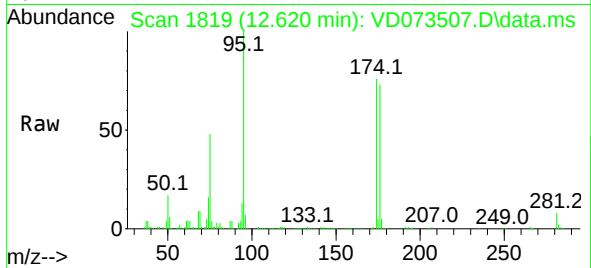




#62
4-Bromofluorobenzene
Concen: 61.121 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.000 min
Lab File: VD073507.D
Acq: 09 Jun 2022 13:55

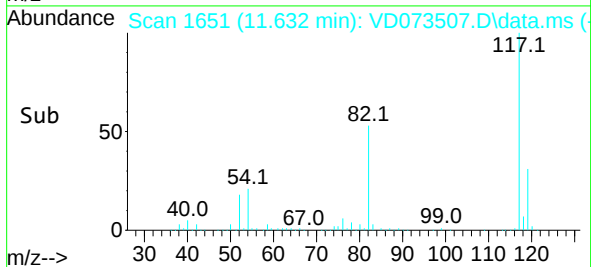
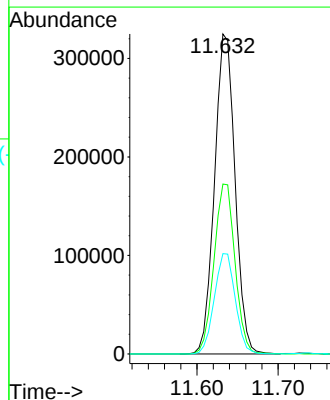
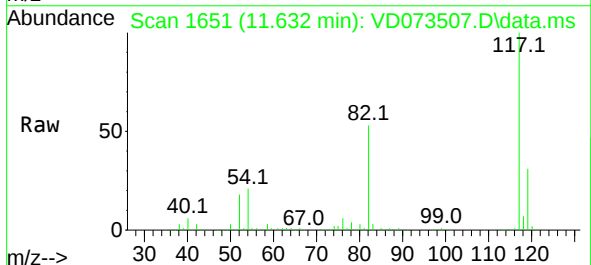
Instrument :
MSVOA_D
ClientSampleId :

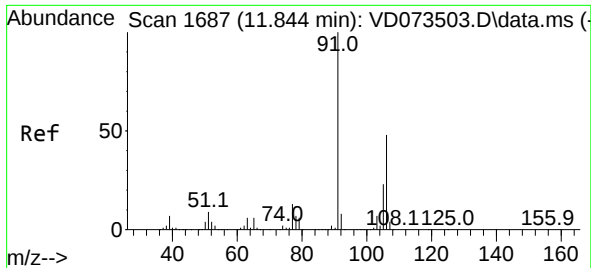
Tgt Ion: 95 Resp: 274064
Ion Ratio Lower Upper
95 100
174 78.1 0.0 152.8
176 74.1 0.0 145.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.632 min Scan# 1651
Delta R.T. -0.000 min
Lab File: VD073507.D
Acq: 09 Jun 2022 13:55

Tgt Ion: 117 Resp: 571003
Ion Ratio Lower Upper
117 100
82 53.1 45.3 67.9
119 31.4 26.6 40.0

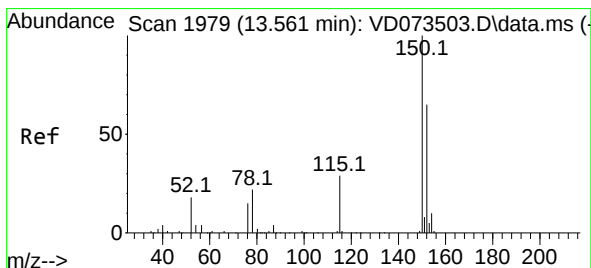
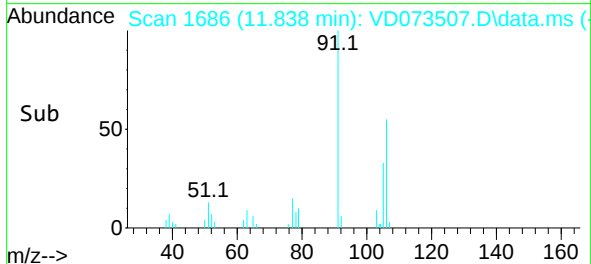
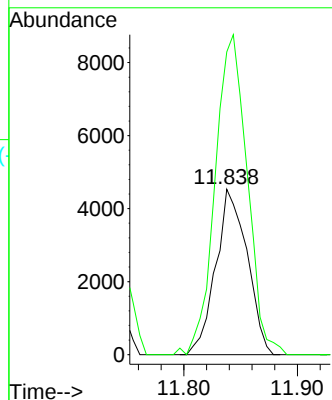
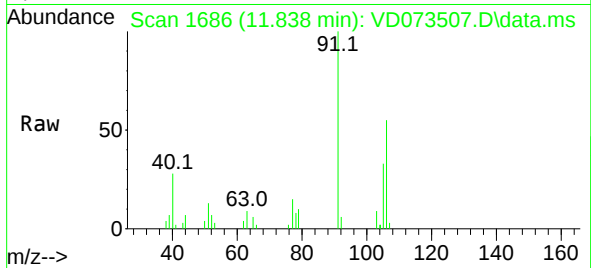




#68
m/p-Xylenes
Concen: 1.082 ug/l
RT: 11.838 min Scan# 1
Delta R.T. -0.006 min
Lab File: VD073507.D
Acq: 09 Jun 2022 13:55

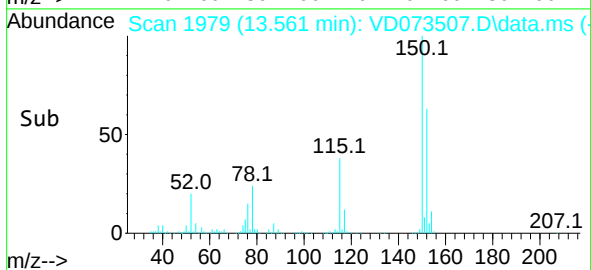
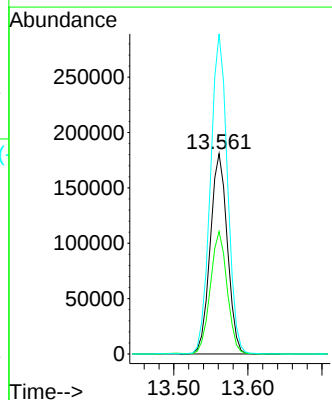
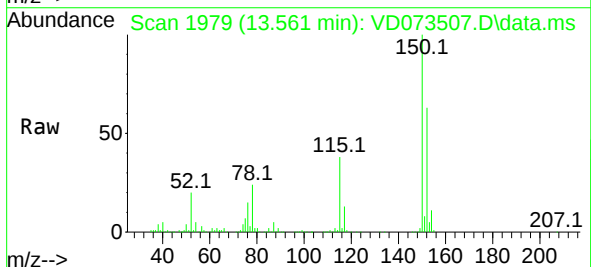
Instrument :
MSVOA_D
ClientSampleId :

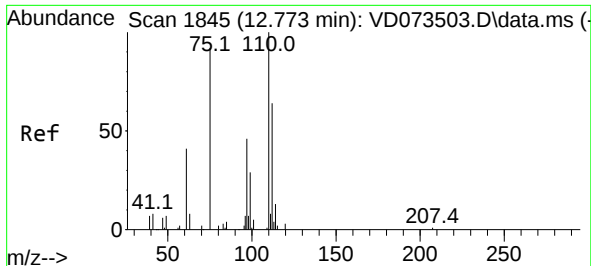
Tgt Ion:106 Resp: 8720
Ion Ratio Lower Upper
106 100
91 197.4 163.7 245.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.561 min Scan# 1979
Delta R.T. 0.000 min
Lab File: VD073507.D
Acq: 09 Jun 2022 13:55

Tgt Ion:152 Resp: 289633
Ion Ratio Lower Upper
152 100
115 60.2 31.3 93.8
150 159.5 0.0 348.6

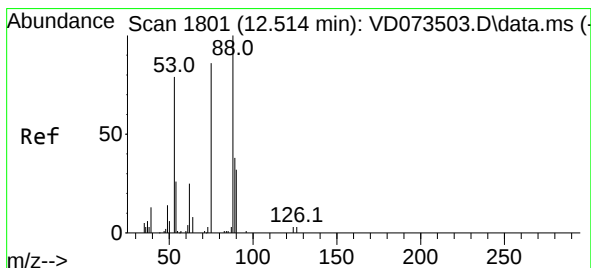
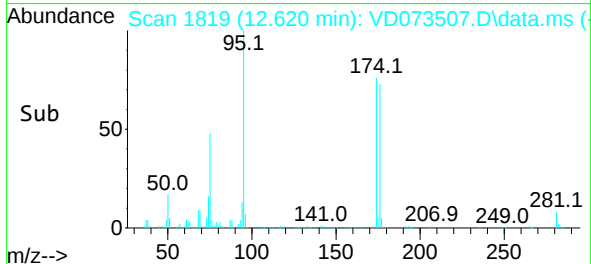
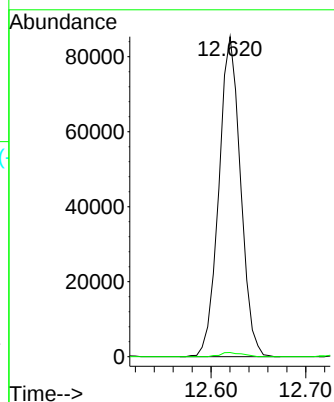
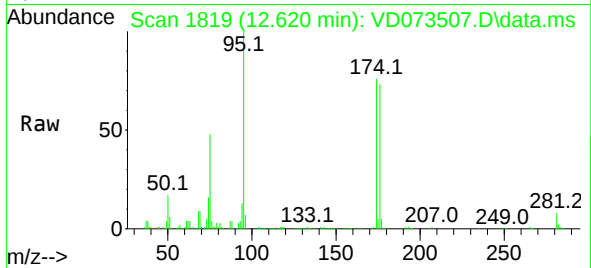




#76
1,2,3-Trichloropropane
Concen: 48.319 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.153 min
Lab File: VD073507.D
Acq: 09 Jun 2022 13:55

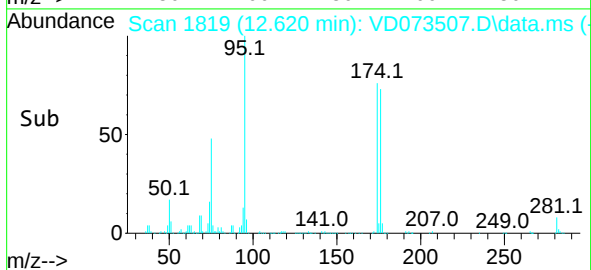
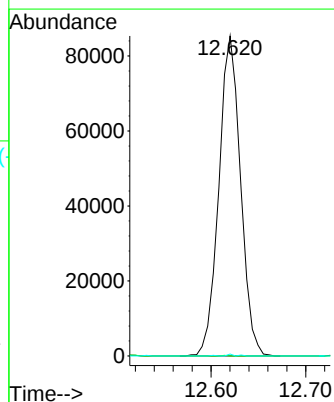
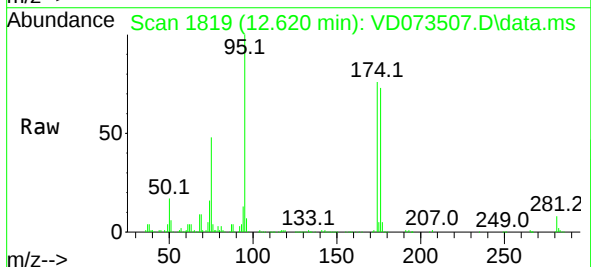
Instrument :
MSVOA_D
ClientSampleId :

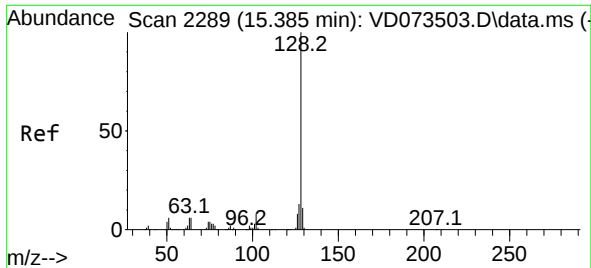
Tgt Ion: 75 Resp: 135955
Ion Ratio Lower Upper
75 100
77 1.3 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 113.414 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.106 min
Lab File: VD073507.D
Acq: 09 Jun 2022 13:55

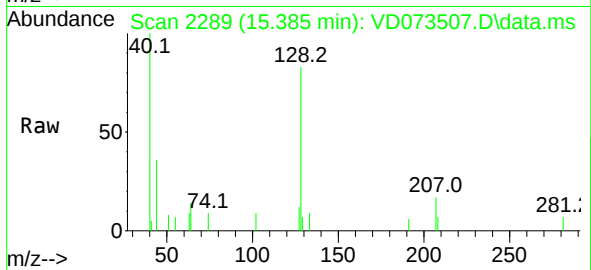
Tgt Ion: 75 Resp: 135955
Ion Ratio Lower Upper
75 100
53 0.0 86.5 129.7#
89 0.3 33.9 50.9#





#95
Naphthalene
Concen: 4.601 ug/l
RT: 15.385 min Scan# 21
Delta R.T. -0.000 min
Lab File: VD073507.D
Acq: 09 Jun 2022 13:55

Instrument :
MSVOA_D
ClientSampleId :



Tgt Ion:	128	Resp:	4540
Ion	Ratio	Lower	Upper
128	100		
127	14.4	10.3	15.5
129	9.0	8.4	12.6

