

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD041922\
 Data File : VD072628.D
 Acq On : 19 Apr 2022 16:47
 Operator : VA/SY
 Sample : N2445-01
 Misc : 5.05G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 282

Quant Time: Apr 20 05:04:03 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D032922S.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 30 02:44:36 2022
 Response via : Initial Calibration

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

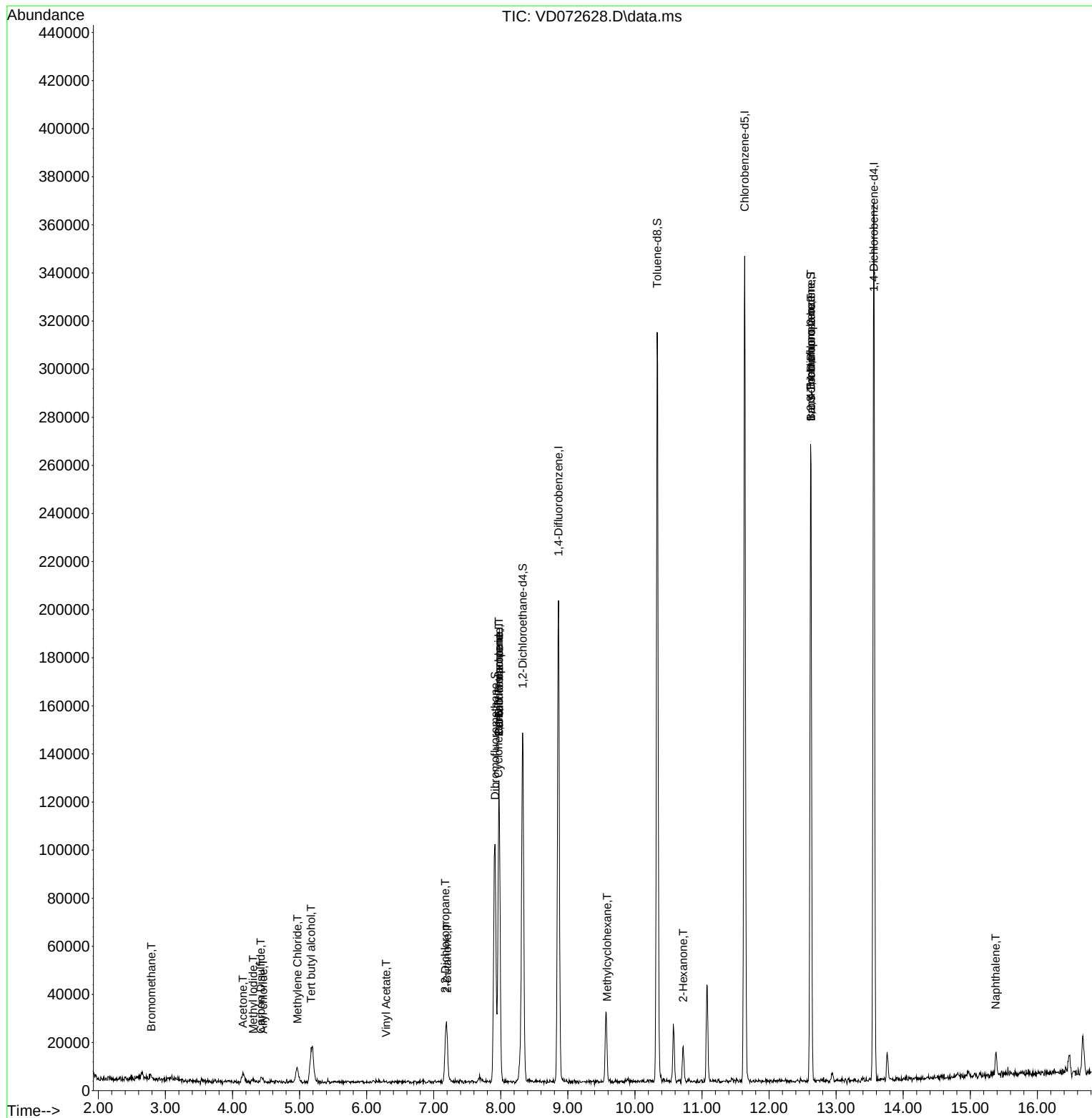
Internal Standards						
1) Pentafluorobenzene	7.973	168	85729	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	169635	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	202036	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	99534	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	114200	110.119	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 220.240%#	
35) Dibromofluoromethane	7.914	113	77575	58.845	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 117.680%	
50) Toluene-d8	10.332	98	213587	46.609	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 93.220%	
62) 4-Bromofluorobenzene	12.620	95	89839	50.199	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 100.400%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.791	94	953	1.965	ug/l #	21
10) Methyl Iodide	4.309	142	366	4.100	ug/l #	35
11) Tert butyl alcohol	5.173	59	6765	123.525	ug/l #	76
14) Allyl chloride	4.456	41	245	1.304	ug/l #	22
16) Acetone	4.156	43	6209	32.108	ug/l	98
17) Carbon Disulfide	4.420	76	239	3.759	ug/l #	74
20) Methylene Chloride	4.967	84	4712	4.093	ug/l #	74
23) Vinyl Acetate	6.291	43	63	6.326	ug/l #	75
25) 2-Butanone	7.203	43	1203	4.498	ug/l #	52
26) 2,2-Dichloropropane	7.173	77	1723	1.041	ug/l #	54
31) Cyclohexane	7.967	56	1897	1.399	ug/l #	1
36) 1,1-Dichloropropene	7.973	75	7655	5.566	ug/l #	49
38) Carbon Tetrachloride	7.973	117	9340	5.143	ug/l #	16
39) Methylcyclohexane	9.585	83	63	2.907	ug/l #	17
59) 2-Hexanone	10.720	43	1141	2.334	ug/l	81
71) Bromoform	12.626	173	1276	1.333	ug/l #	1
76) 1,2,3-Trichloropropane	12.626	75	44860	41.324	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.626	75	44860	101.400	ug/l #	7
95) Naphthalene	15.379	128	8196	2.067	ug/l #	93

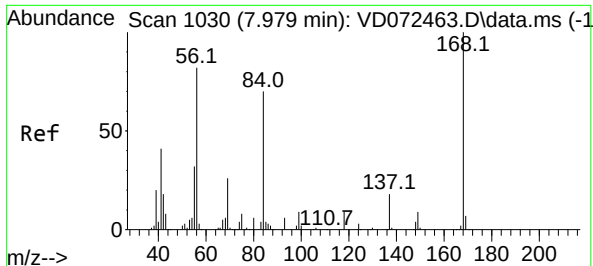
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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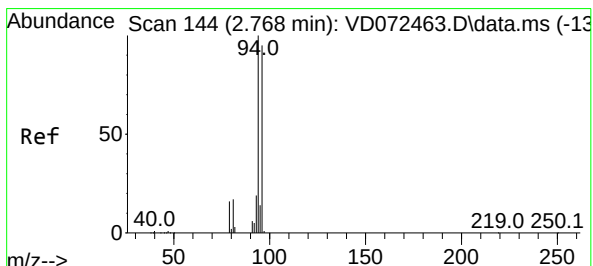
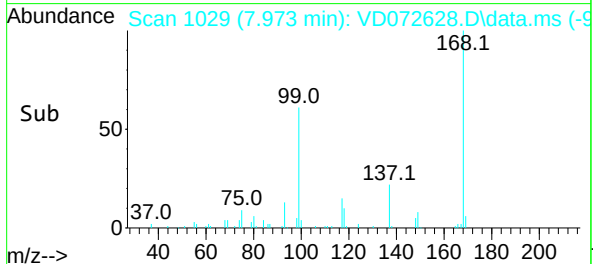
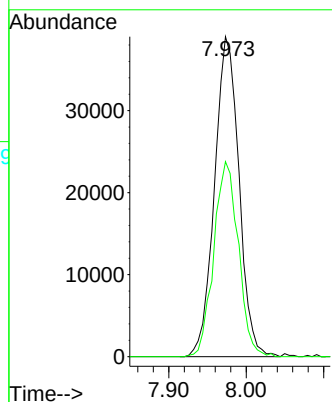
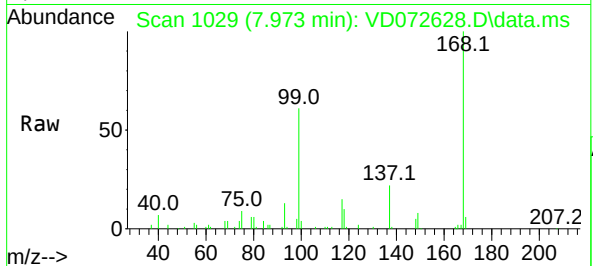




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.973 min Scan# 1030
Delta R.T. -0.006 min
Lab File: VD072628.D
Acq: 19 Apr 2022 16:47

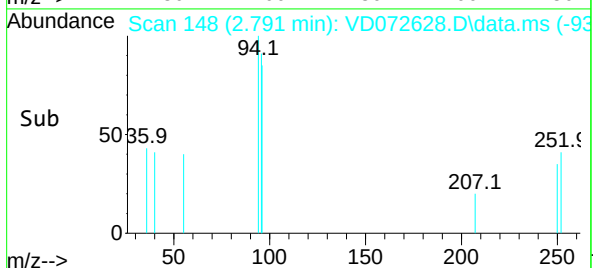
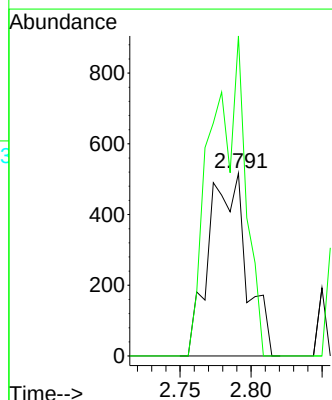
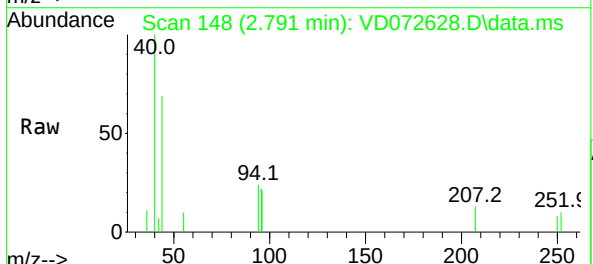
Instrument :
MSVOA_D
ClientSampleId :
282

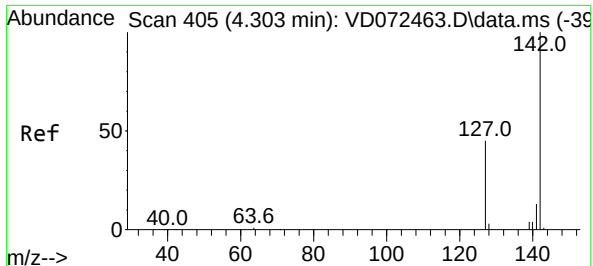
Tgt Ion:168 Resp: 85729
Ion Ratio Lower Upper
168 100
99 60.9 49.8 74.6



#5
Bromomethane
Concen: 1.965 ug/l
RT: 2.791 min Scan# 148
Delta R.T. 0.024 min
Lab File: VD072628.D
Acq: 19 Apr 2022 16:47

Tgt Ion: 94 Resp: 953
Ion Ratio Lower Upper
94 100
96 175.0 77.6 116.4#

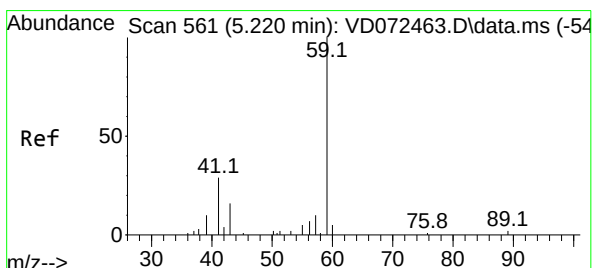
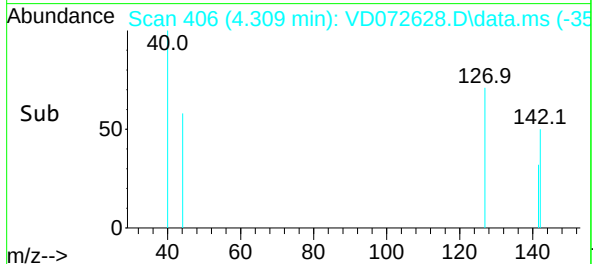
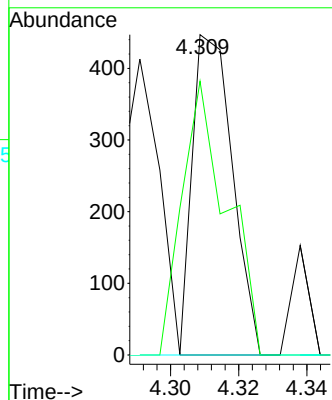
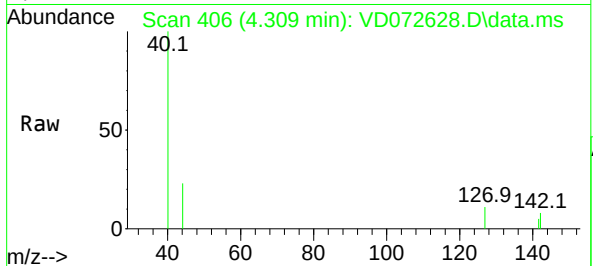




#10
Methyl Iodide
Concen: 4.100 ug/l
RT: 4.309 min Scan# 405
Delta R.T. 0.006 min
Lab File: VD072628.D
Acq: 19 Apr 2022 16:47

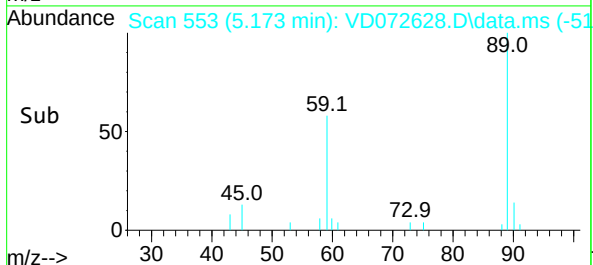
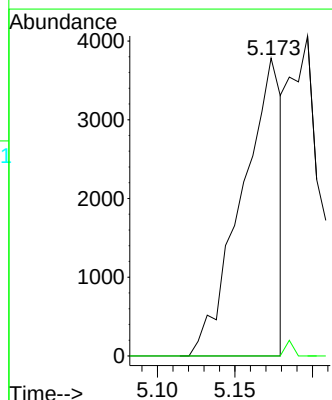
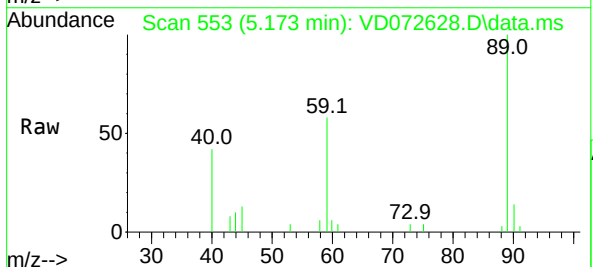
Instrument :
MSVOA_D
ClientSampleId :
282

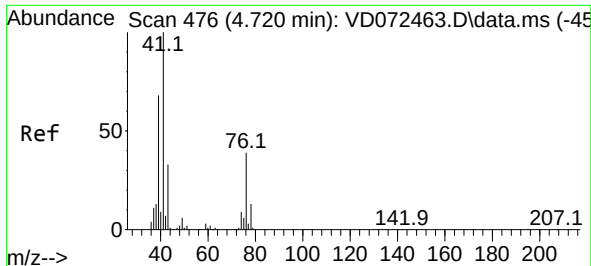
Tgt Ion:142 Resp: 366
Ion Ratio Lower Upper
142 100
127 95.9 37.3 55.9#
141 0.0 11.7 17.5#



#11
Tert butyl alcohol
Concen: 123.525 ug/l
RT: 5.173 min Scan# 553
Delta R.T. -0.047 min
Lab File: VD072628.D
Acq: 19 Apr 2022 16:47

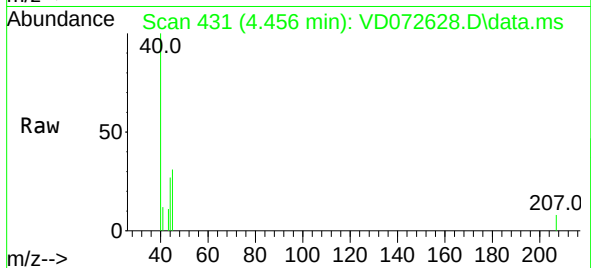
Tgt Ion: 59 Resp: 6765
Ion Ratio Lower Upper
59 100
57 1.0 7.8 11.6#



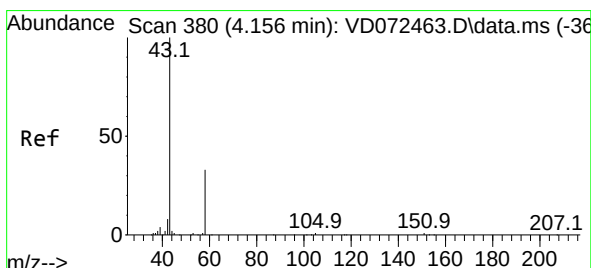
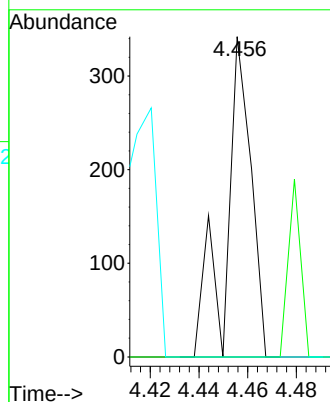
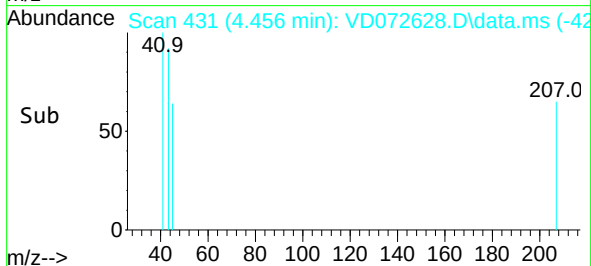


#14
 Allyl chloride
 Concen: 1.304 ug/l
 RT: 4.456 min Scan# 41
 Delta R.T. -0.264 min
 Lab File: VD072628.D
 Acq: 19 Apr 2022 16:47

Instrument :
 MSVOA_D
 ClientSampleId :
 282

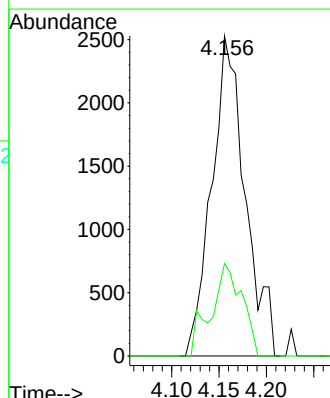
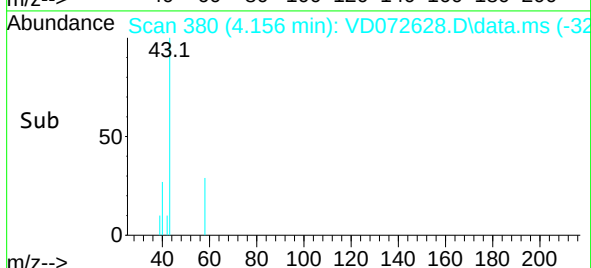
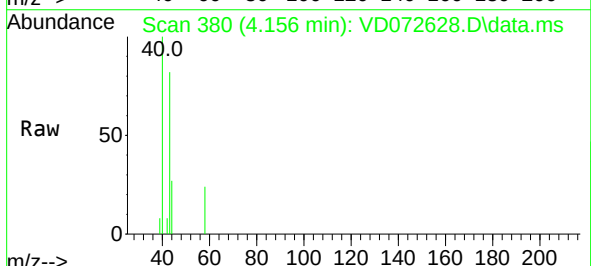


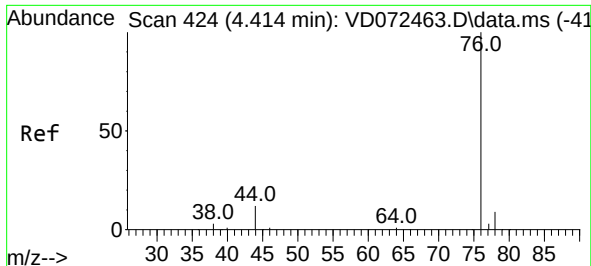
Tgt Ion: 41 Resp: 245
 Ion Ratio Lower Upper
 41 100
 39 0.0 59.3 88.9#
 76 0.0 25.7 38.5#



#16
 Acetone
 Concen: 32.108 ug/l
 RT: 4.156 min Scan# 380
 Delta R.T. 0.000 min
 Lab File: VD072628.D
 Acq: 19 Apr 2022 16:47

Tgt Ion: 43 Resp: 6209
 Ion Ratio Lower Upper
 43 100
 58 28.9 22.1 33.1

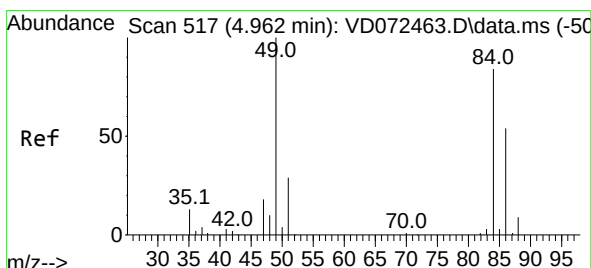
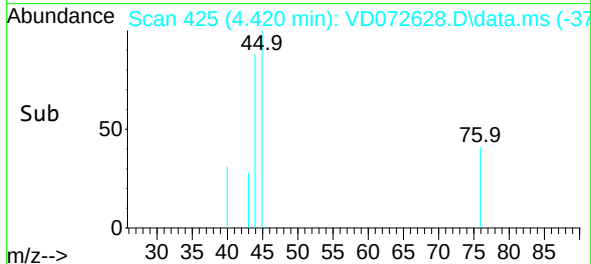
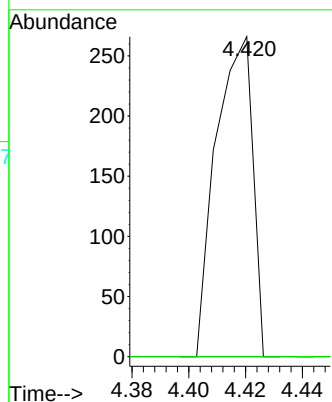
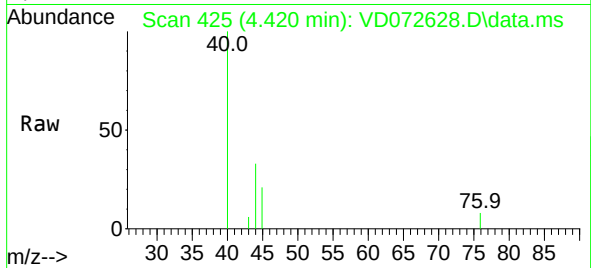




#17
Carbon Disulfide
Concen: 3.759 ug/l
RT: 4.420 min Scan# 41
Delta R.T. 0.006 min
Lab File: VD072628.D
Acq: 19 Apr 2022 16:47

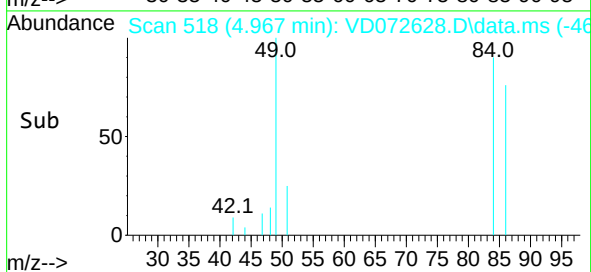
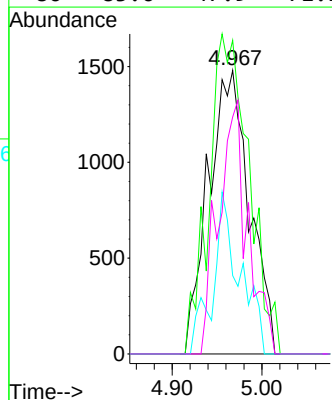
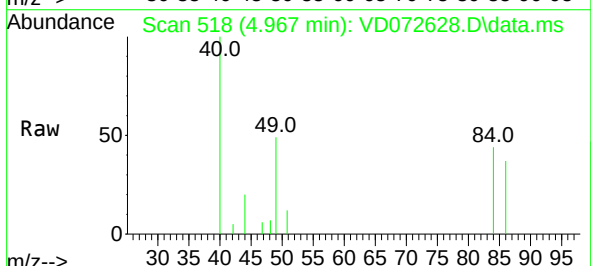
Instrument :
MSVOA_D
ClientSampleId :
282

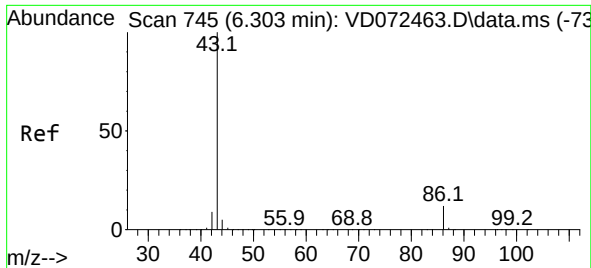
Tgt Ion: 76 Resp: 239
Ion Ratio Lower Upper
76 100
78 0.0 7.5 11.3#



#20
Methylene Chloride
Concen: 4.093 ug/l
RT: 4.967 min Scan# 518
Delta R.T. 0.006 min
Lab File: VD072628.D
Acq: 19 Apr 2022 16:47

Tgt Ion: 84 Resp: 4712
Ion Ratio Lower Upper
84 100
49 110.6 112.8 169.2#
51 27.6 32.6 48.8#
86 83.6 47.9 71.9#

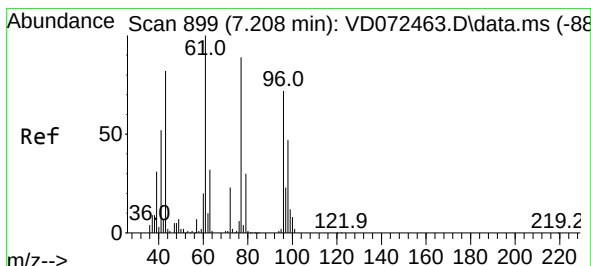
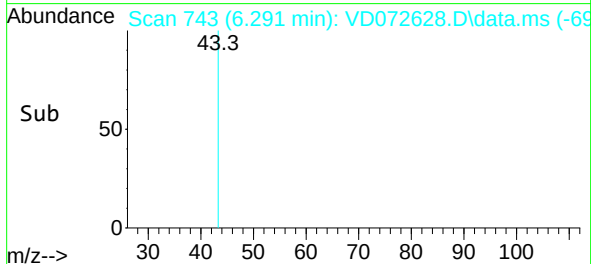
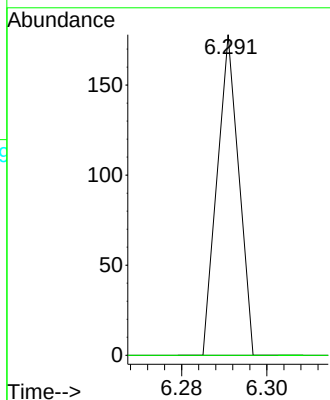
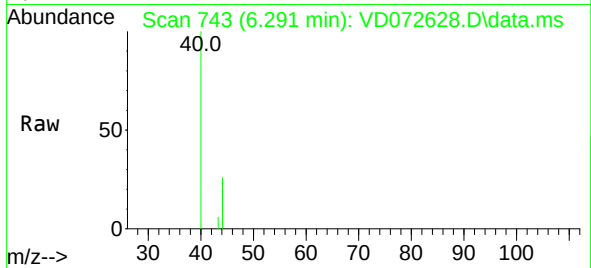




#23
 Vinyl Acetate
 Concen: 6.326 ug/l
 RT: 6.291 min Scan# 745
 Delta R.T. -0.012 min
 Lab File: VD072628.D
 Acq: 19 Apr 2022 16:47

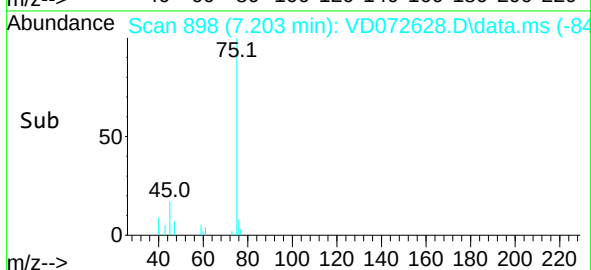
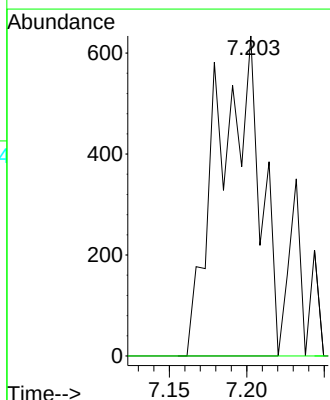
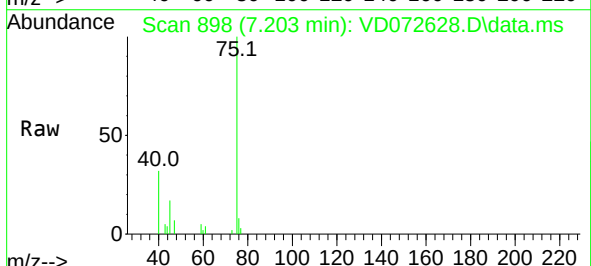
Instrument :
 MSVOA_D
 ClientSampleId :
 282

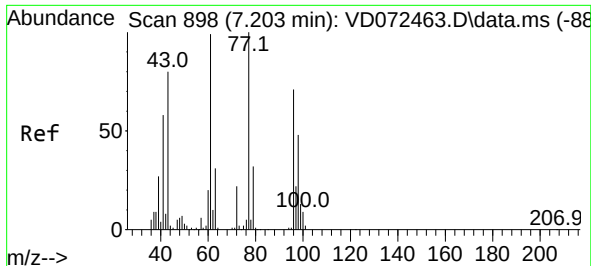
Tgt Ion: 43 Resp: 63
 Ion Ratio Lower Upper
 43 100
 86 0.0 7.1 10.7#



#25
 2-Butanone
 Concen: 4.498 ug/l
 RT: 7.203 min Scan# 898
 Delta R.T. -0.006 min
 Lab File: VD072628.D
 Acq: 19 Apr 2022 16:47

Tgt Ion: 43 Resp: 1203
 Ion Ratio Lower Upper
 43 100
 72 0.0 18.6 27.8#





#26

2,2-Dichloropropane

Concen: 1.041 ug/l

RT: 7.173 min Scan# 89

Delta R.T. -0.029 min

Lab File: VD072628.D

Acq: 19 Apr 2022 16:47

Instrument :

MSVOA_D

ClientSampleId :

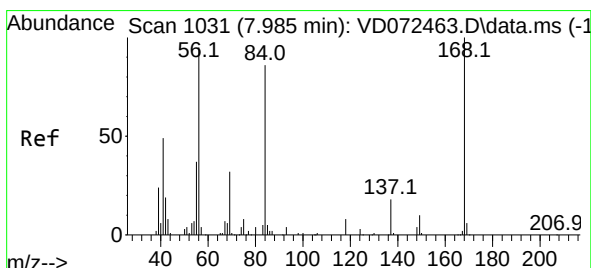
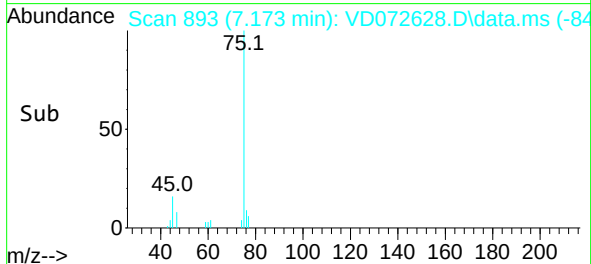
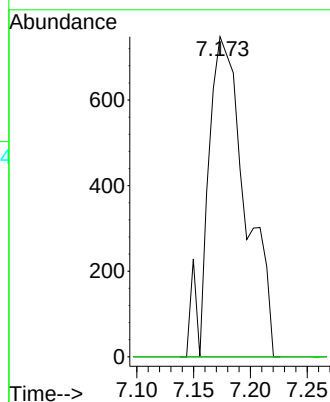
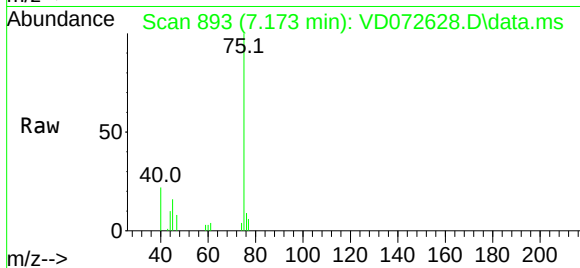
282

Tgt Ion: 77 Resp: 1723

Ion Ratio Lower Upper

77 100

97 0.0 10.8 32.4#



#31

Cyclohexane

Concen: 1.399 ug/l

RT: 7.967 min Scan# 1028

Delta R.T. -0.018 min

Lab File: VD072628.D

Acq: 19 Apr 2022 16:47

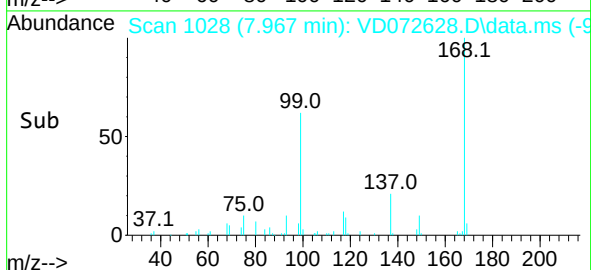
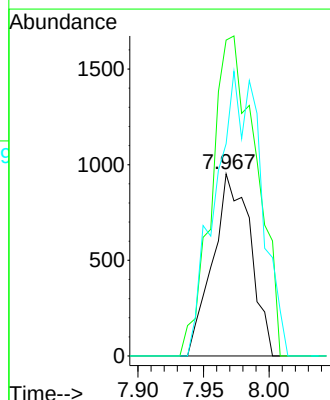
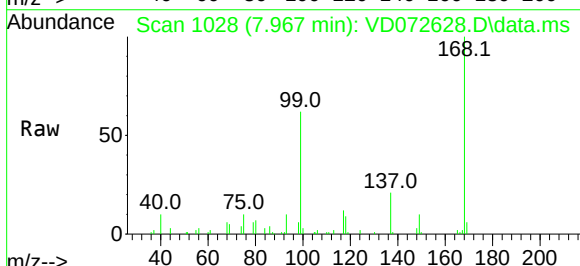
Tgt Ion: 56 Resp: 1897

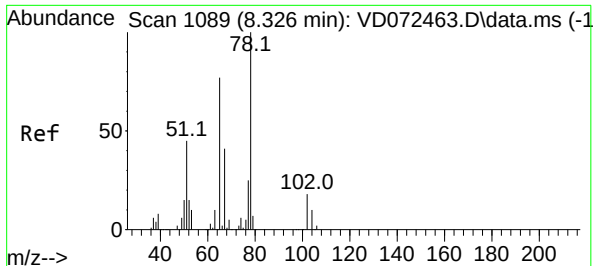
Ion Ratio Lower Upper

56 100

69 173.4 25.4 38.2#

84 116.5 63.0 94.4#





#33

1,2-Dichloroethane-d4

Concen: 110.119 ug/l

RT: 8.326 min Scan# 1108

Delta R.T. 0.000 min

Lab File: VD072628.D

Acq: 19 Apr 2022 16:47

Instrument :

MSVOA_D

ClientSampleId :

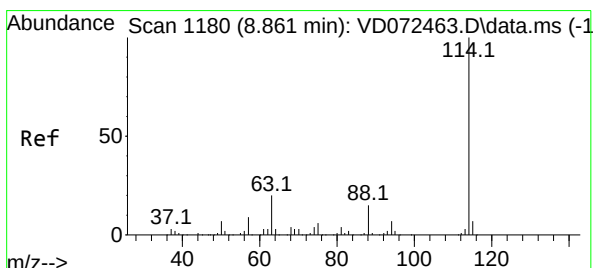
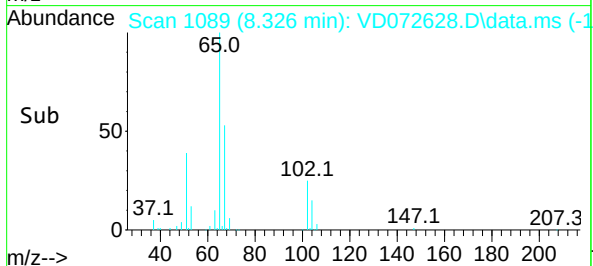
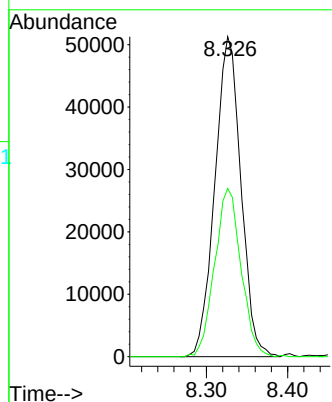
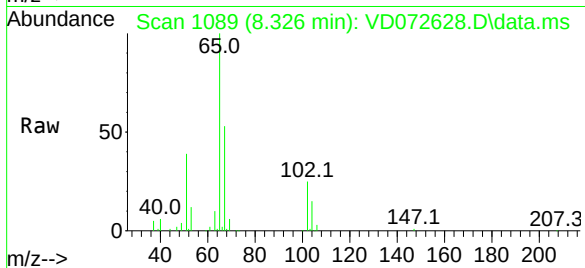
282

Tgt Ion: 65 Resp: 114200

Ion Ratio Lower Upper

65 100

67 53.2 0.0 101.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1180

Delta R.T. 0.000 min

Lab File: VD072628.D

Acq: 19 Apr 2022 16:47

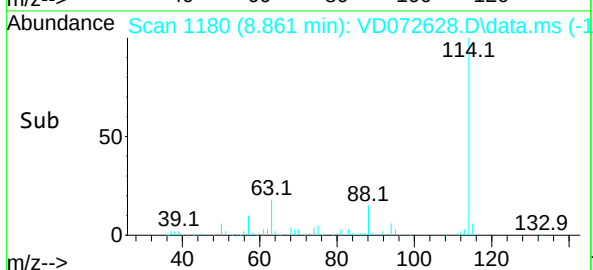
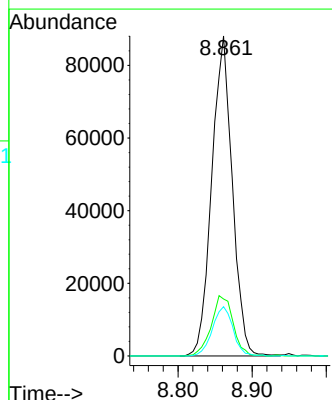
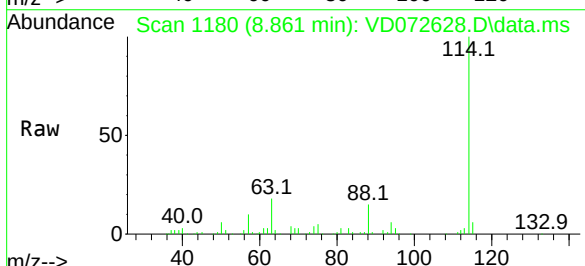
Tgt Ion: 114 Resp: 169635

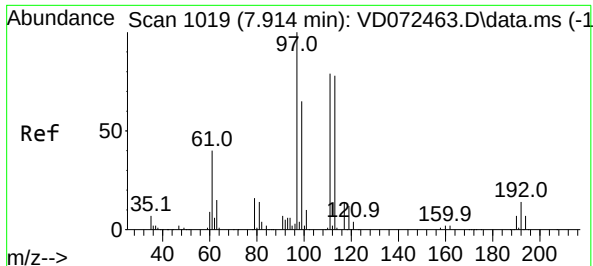
Ion Ratio Lower Upper

114 100

63 17.8 0.0 46.6

88 15.4 0.0 33.2





#35

Dibromofluoromethane

Concen: 58.845 ug/l

RT: 7.914 min Scan# 1019

Delta R.T. 0.000 min

Lab File: VD072628.D

Acq: 19 Apr 2022 16:47

Instrument :

MSVOA_D

ClientSampleId :

282

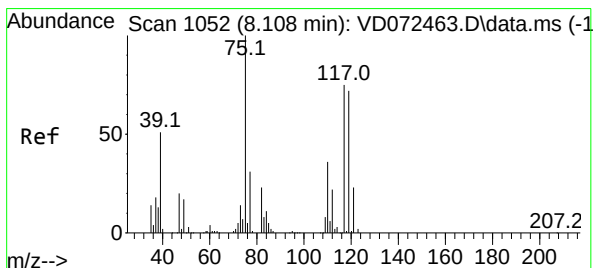
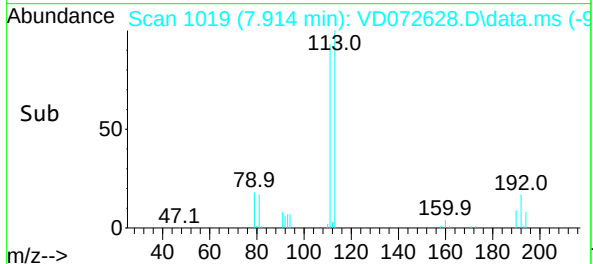
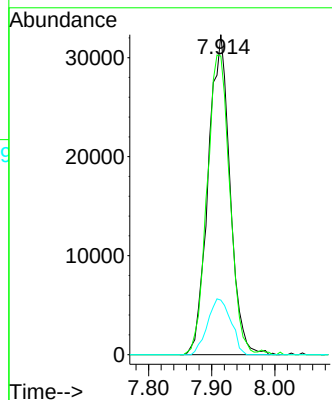
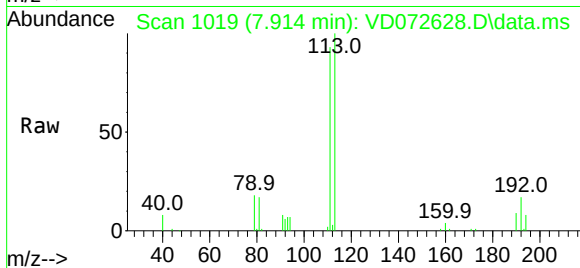
Tgt Ion:113 Resp: 77575

Ion Ratio Lower Upper

113 100

111 97.4 83.8 125.6

192 18.6 14.6 21.8



#36

1,1-Dichloropropene

Concen: 5.566 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.135 min

Lab File: VD072628.D

Acq: 19 Apr 2022 16:47

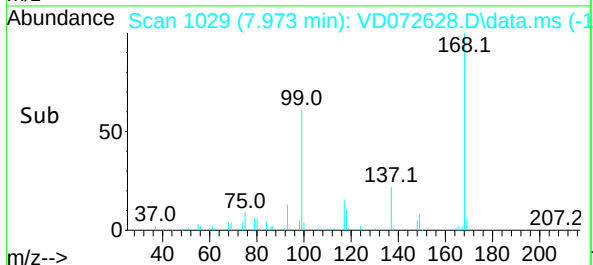
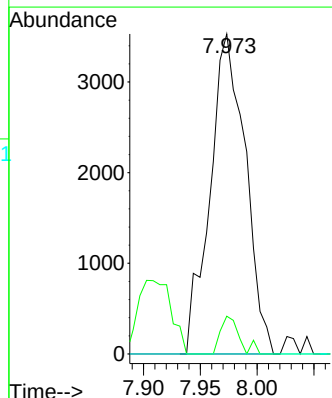
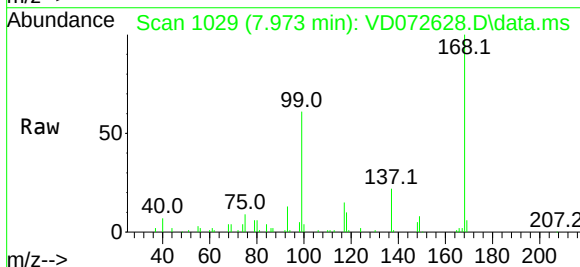
Tgt Ion: 75 Resp: 7655

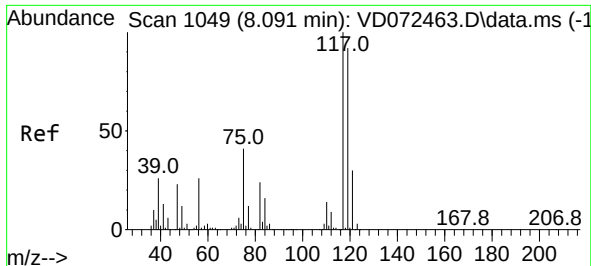
Ion Ratio Lower Upper

75 100

110 6.3 16.4 49.1#

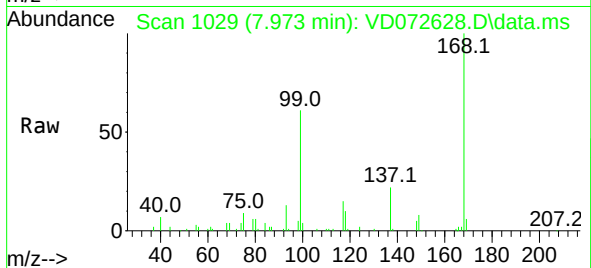
77 0.0 24.2 36.2#



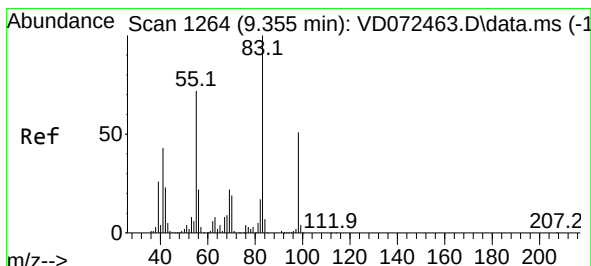
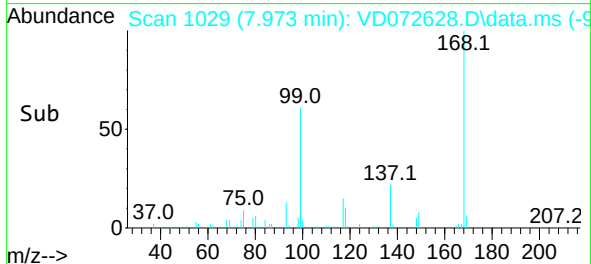
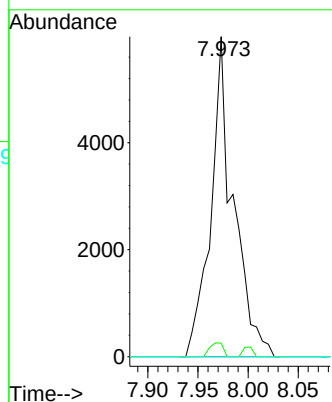


#38
Carbon Tetrachloride
Concen: 5.143 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.118 min
Lab File: VD072628.D
Acq: 19 Apr 2022 16:47

Instrument :
MSVOA_D
ClientSampleId :
282

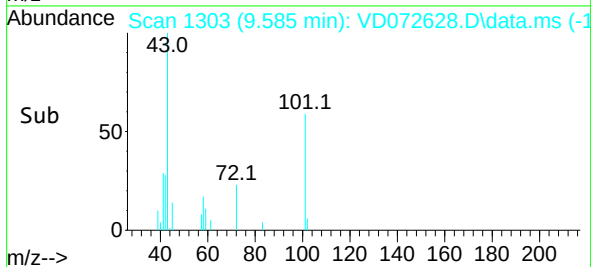
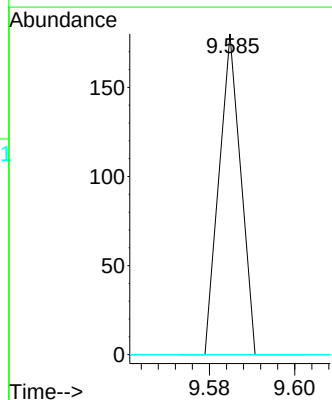
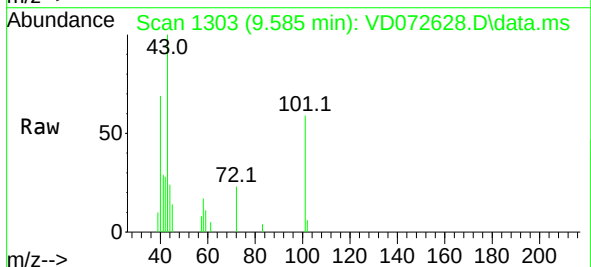


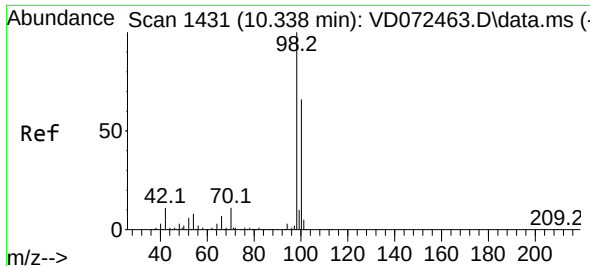
Tgt Ion:117 Resp: 9340
Ion Ratio Lower Upper
117 100
119 4.2 75.8 113.6#
121 0.0 24.5 36.7#



#39
Methylcyclohexane
Concen: 2.907 ug/l
RT: 9.585 min Scan# 1303
Delta R.T. 0.230 min
Lab File: VD072628.D
Acq: 19 Apr 2022 16:47

Tgt Ion: 83 Resp: 63
Ion Ratio Lower Upper
83 100
55 0.0 63.2 94.8#
98 0.0 38.2 57.4#

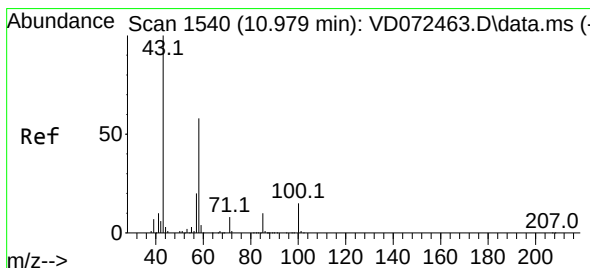
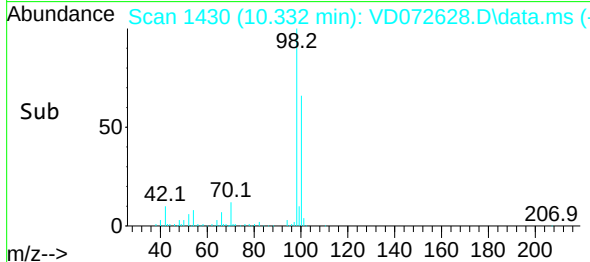
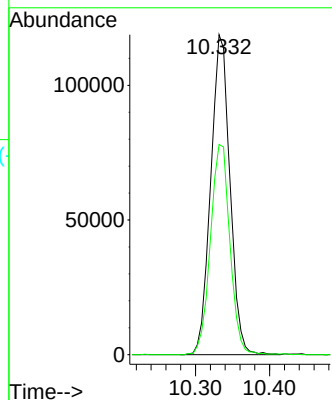
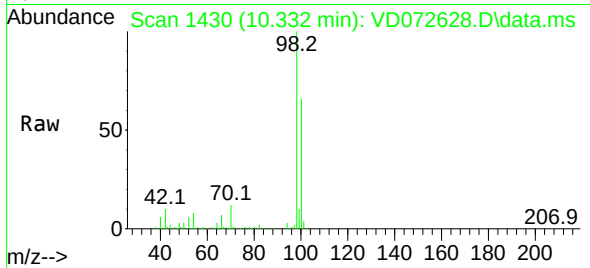




#50
Toluene-d8
Concen: 46.609 ug/l
RT: 10.332 min Scan# 1431
Delta R.T. -0.006 min
Lab File: VD072628.D
Acq: 19 Apr 2022 16:47

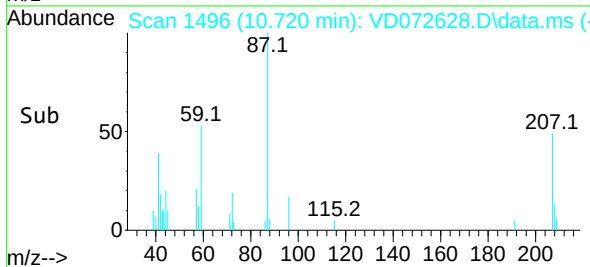
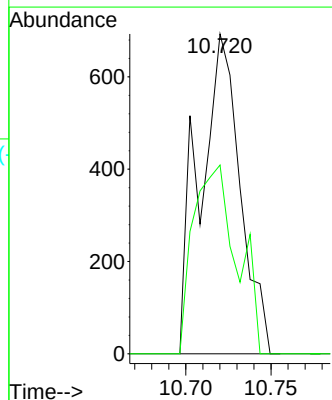
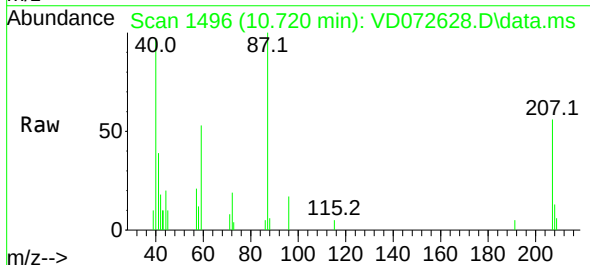
Instrument :
MSVOA_D
ClientSampleId :
282

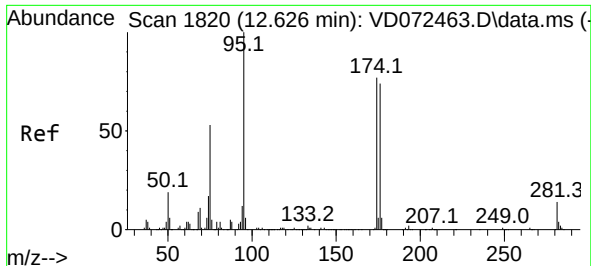
Tgt Ion: 98 Resp: 213587
Ion Ratio Lower Upper
98 100
100 66.8 52.4 78.6



#59
2-Hexanone
Concen: 2.334 ug/l
RT: 10.720 min Scan# 1496
Delta R.T. -0.259 min
Lab File: VD072628.D
Acq: 19 Apr 2022 16:47

Tgt Ion: 43 Resp: 1141
Ion Ratio Lower Upper
43 100
58 63.6 25.3 75.9

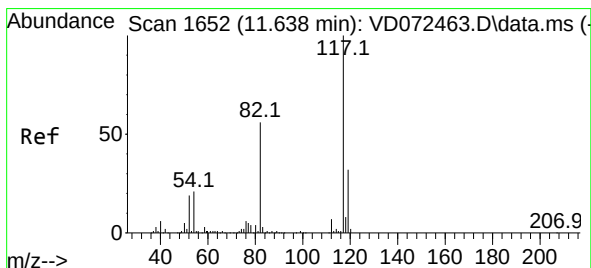
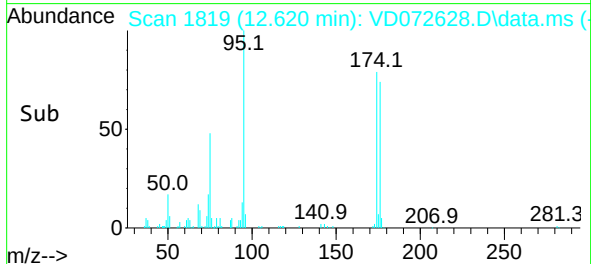
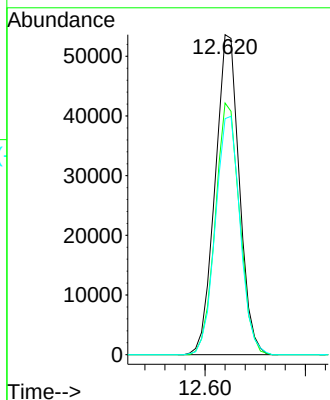
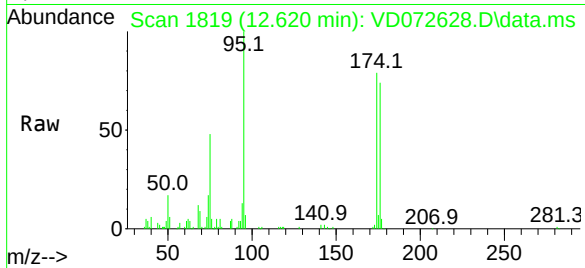




#62
4-Bromofluorobenzene
Concen: 50.199 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.006 min
Lab File: VD072628.D
Acq: 19 Apr 2022 16:47

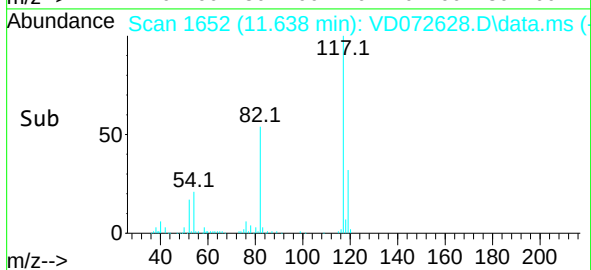
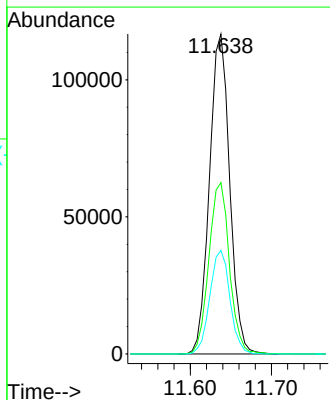
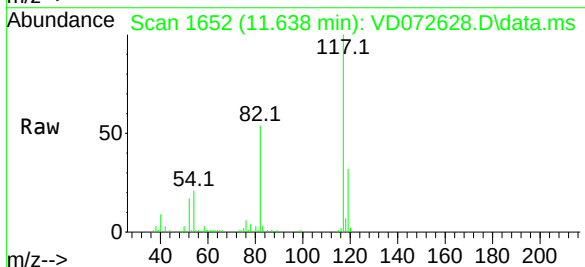
Instrument :
MSVOA_D
ClientSampleId :
282

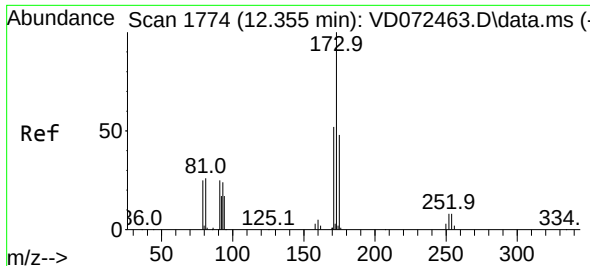
Tgt Ion: 95 Resp: 89839
Ion Ratio Lower Upper
95 100
174 78.9 0.0 152.8
176 76.1 0.0 145.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. 0.000 min
Lab File: VD072628.D
Acq: 19 Apr 2022 16:47

Tgt Ion: 117 Resp: 202036
Ion Ratio Lower Upper
117 100
82 53.5 45.3 67.9
119 32.4 26.6 40.0

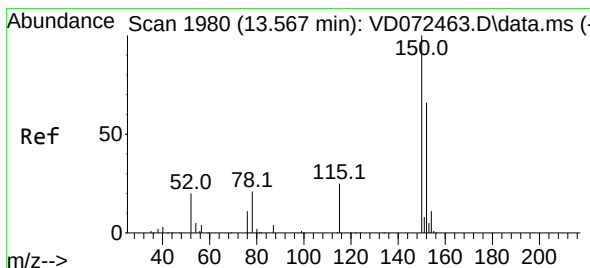
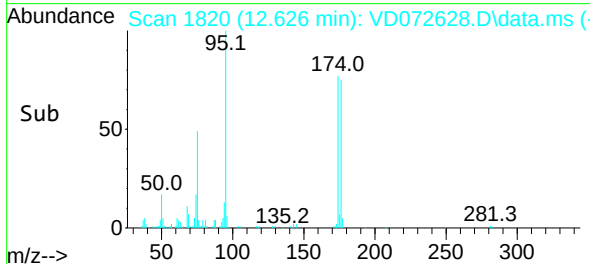
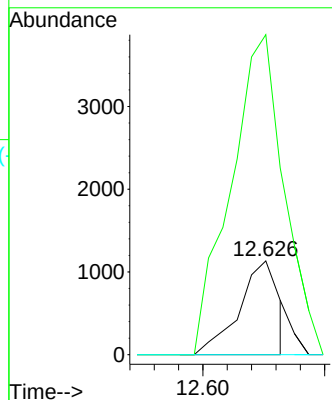
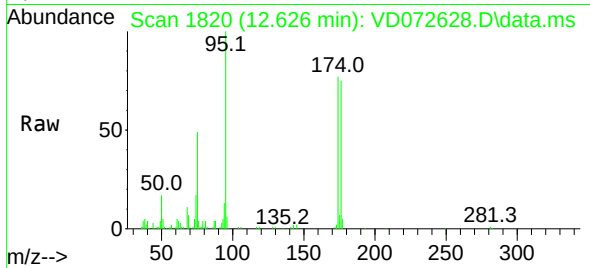




#71
Bromoform
Concen: 1.333 ug/l
RT: 12.626 min Scan# 11
Delta R.T. 0.271 min
Lab File: VD072628.D
Acq: 19 Apr 2022 16:47

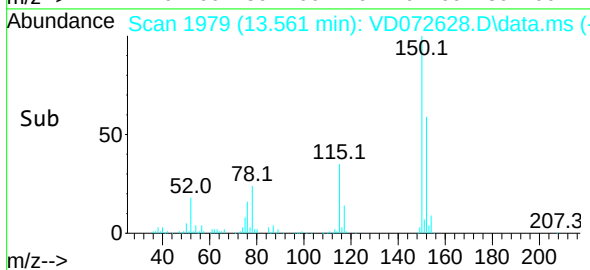
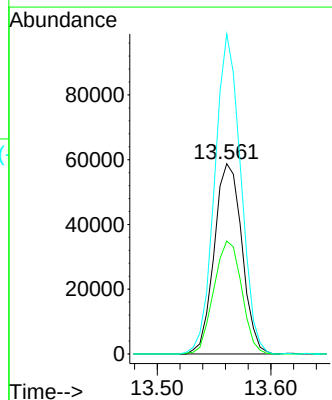
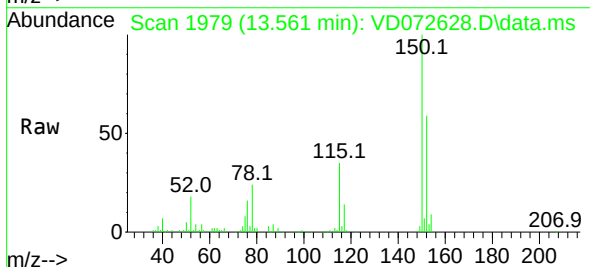
Instrument :
MSVOA_D
ClientSampleId :
282

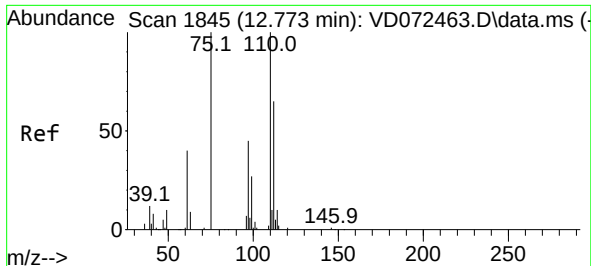
Tgt Ion:173 Resp: 1276
Ion Ratio Lower Upper
173 100
175 409.3 23.9 71.8#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.561 min Scan# 1979
Delta R.T. -0.006 min
Lab File: VD072628.D
Acq: 19 Apr 2022 16:47

Tgt Ion:152 Resp: 99534
Ion Ratio Lower Upper
152 100
115 59.6 31.3 93.8
150 158.3 0.0 348.6

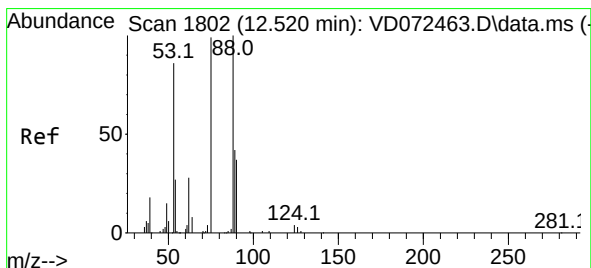
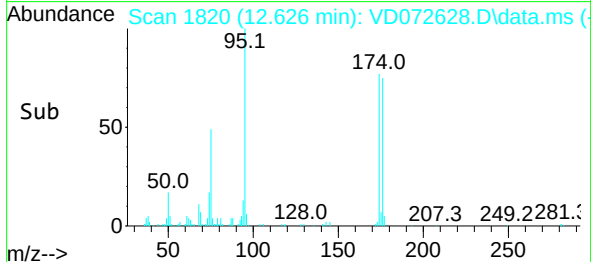
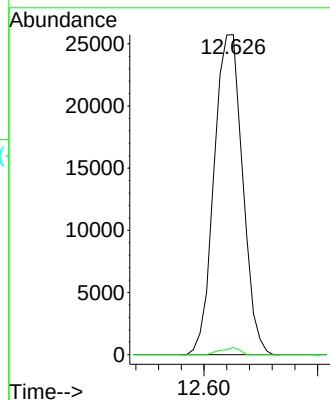
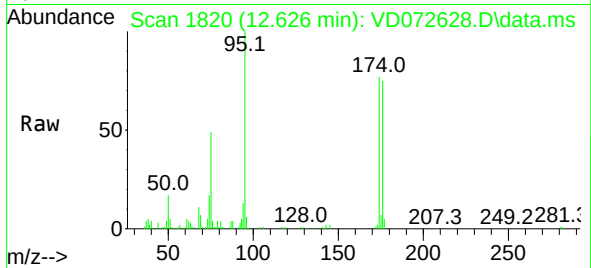




#76
1,2,3-Trichloropropane
Concen: 41.324 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.147 min
Lab File: VD072628.D
Acq: 19 Apr 2022 16:47

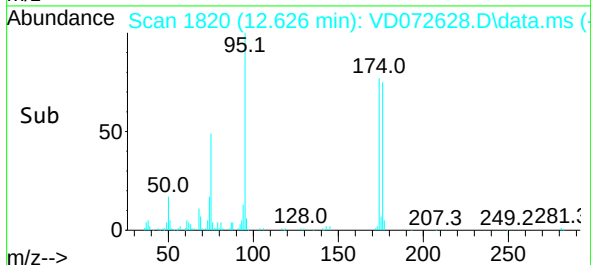
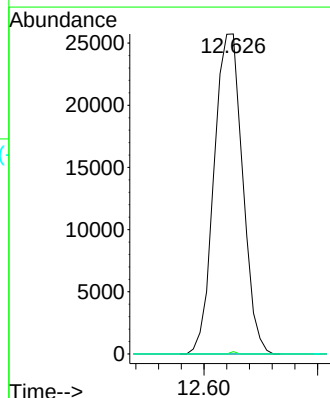
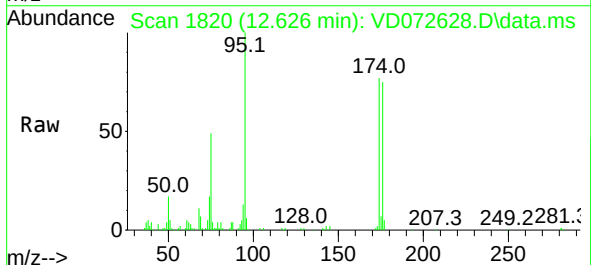
Instrument :
MSVOA_D
ClientSampleId :
282

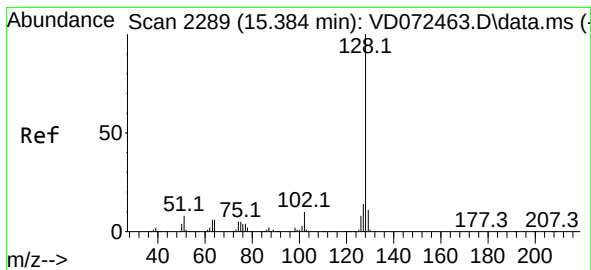
Tgt Ion: 75 Resp: 44860
Ion Ratio Lower Upper
75 100
77 1.5 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 101.400 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. 0.106 min
Lab File: VD072628.D
Acq: 19 Apr 2022 16:47

Tgt Ion: 75 Resp: 44860
Ion Ratio Lower Upper
75 100
53 0.2 86.5 129.7#
89 0.0 33.9 50.9#





#95

Naphthalene

Concen: 2.067 ug/l

RT: 15.379 min Scan# 21

Delta R.T. -0.006 min

Lab File: VD072628.D

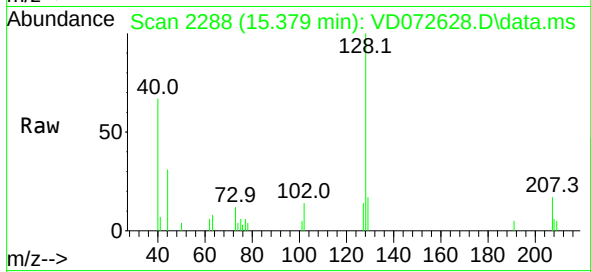
Acq: 19 Apr 2022 16:47

Instrument :

MSVOA_D

ClientSampleId :

282



Tgt Ion:128 Resp: 8196

Ion Ratio Lower Upper

128 100

127 14.9 10.3 15.5

129 7.0 8.4 12.6#

