

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD121421\
 Data File : VD071326.D
 Acq On : 14 Dec 2021 17:49
 Operator : VA/SY
 Sample : M5073-01
 Misc : 5.05G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 15 08:32:18 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

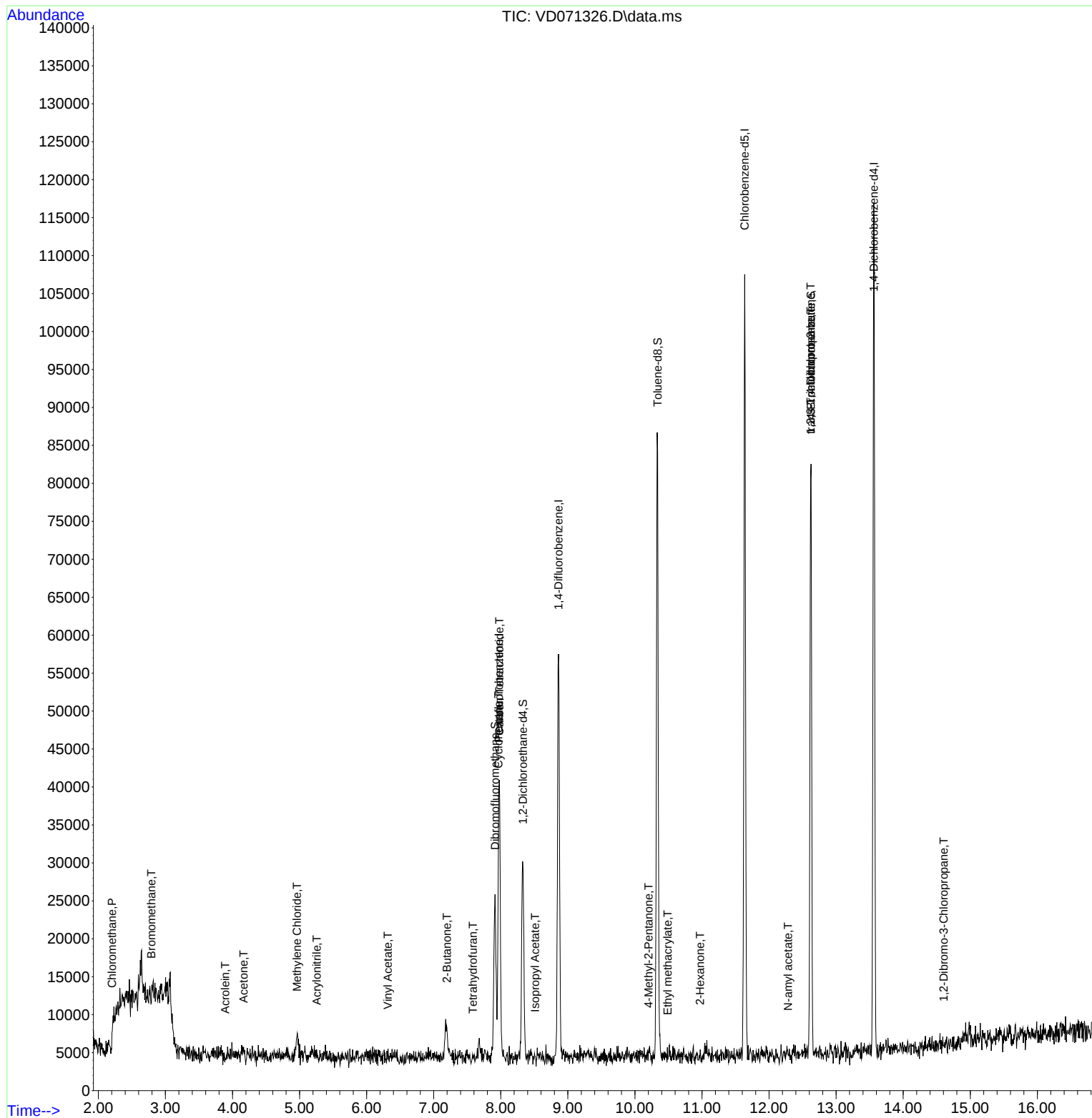
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.973	168	24905	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	8.861	114	42168	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	53390	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	25851	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.332	65	21235	72.665	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 145.340%	
35) Dibromofluoromethane	7.914	113	13735	51.150	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 102.300%	
50) Toluene-d8	10.338	98	54136	52.978	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 105.960%	
62) 4-Bromofluorobenzene	12.626	95	26287	74.212	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 148.420%#	
Target Compounds						Qvalue
3) Chloromethane	2.203	50	282	1.004	ug/l #	26
5) Bromomethane	2.791	94	591	2.615	ug/l #	3
11) Tert butyl alcohol	5.197	59	414	Below Cal	#	91
13) Acrolein	3.891	56	77	3.856	ug/l #	13
15) Acrylonitrile	5.256	53	119	2.125	ug/l #	19
16) Acetone	4.167	43	930	41.305	ug/l #	40
20) Methylene Chloride	4.961	84	1850	2.288	ug/l #	69
23) Vinyl Acetate	6.314	43	56	27.323	ug/l #	72
25) 2-Butanone	7.197	43	234	30.674	ug/l #	45
29) Tetrahydrofuran	7.585	42	85	1.832	ug/l #	34
31) Cyclohexane	7.967	56	1019	2.050	ug/l #	1
38) Carbon Tetrachloride	7.979	117	2842	7.315	ug/l #	12
41) Methacrylonitrile	7.544	41	193	Below Cal	#	22
43) Isopropyl Acetate	8.514	43	87	5.431	ug/l #	47
51) 4-Methyl-2-Pentanone	10.202	43	192	31.529	ug/l #	81
56) Ethyl methacrylate	10.491	69	66	6.181	ug/l #	1
59) 2-Hexanone	10.973	43	70	34.991	ug/l #	22
74) N-amyl acetate	12.285	43	179	6.011	ug/l #	54
76) 1,2,3-Trichloropropane	12.620	75	13993	56.813	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.620	75	13993	123.312	ug/l #	19
92) 1,2-Dibromo-3-Chloropr...	14.602	75	73	1.454	ug/l #	4

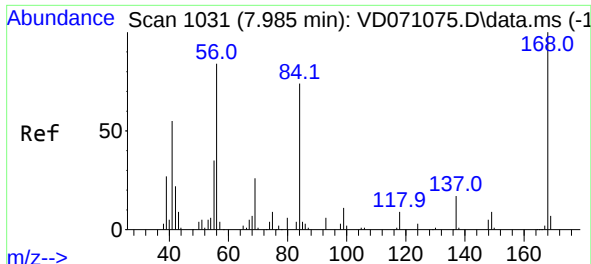
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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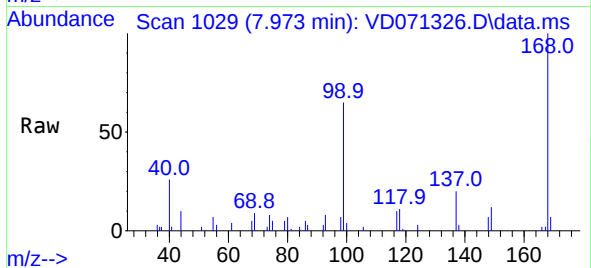
Quant Time: Dec 15 08:32:18 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D112921S.M
Quant Title : SW846 8260
QLast Update : Mon Nov 29 17:54:09 2021
Response via : Initial Calibration



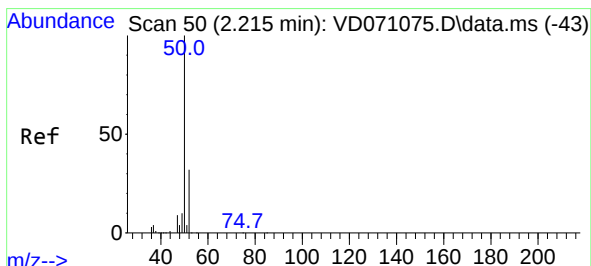
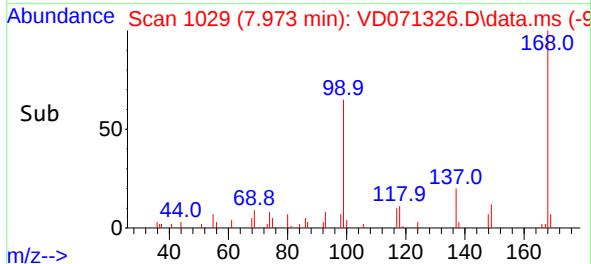
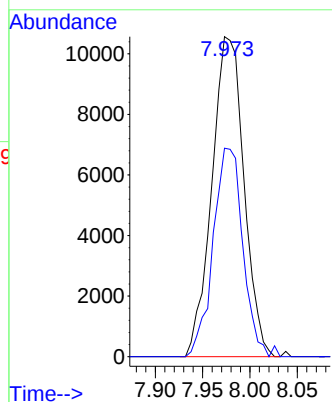


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.973 min Scan# 10
Delta R.T. -0.012 min
Lab File: VD071326.D
Acq: 14 Dec 2021 17:49

Instrument :
MSVOA_D
ClientSampleId :

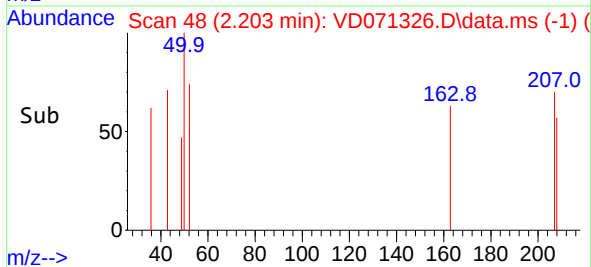
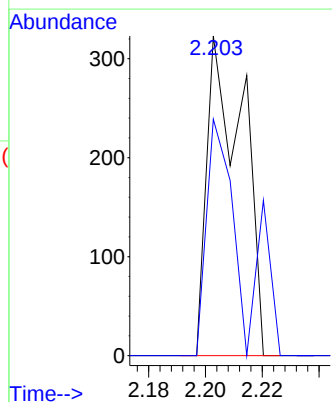
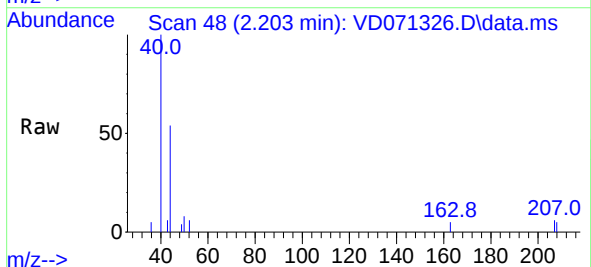


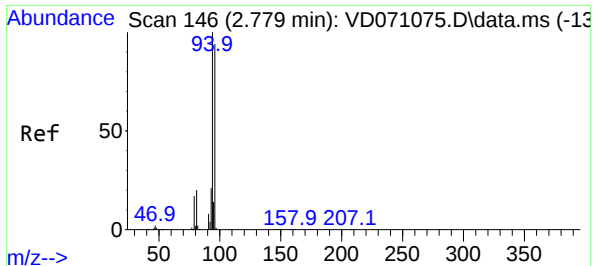
Tgt Ion:168 Resp: 24905
Ion Ratio Lower Upper
168 100
99 65.1 46.6 69.8



#3
Chloromethane
Concen: 1.004 ug/l
RT: 2.203 min Scan# 48
Delta R.T. -0.012 min
Lab File: VD071326.D
Acq: 14 Dec 2021 17:49

Tgt Ion: 50 Resp: 282
Ion Ratio Lower Upper
50 100
52 74.0 25.8 38.8#

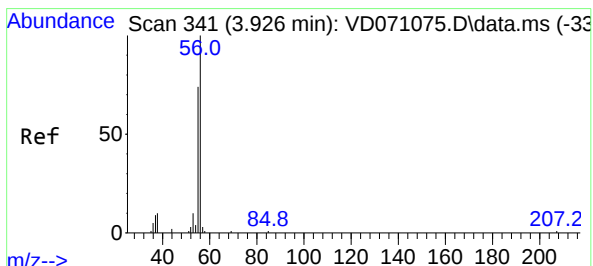
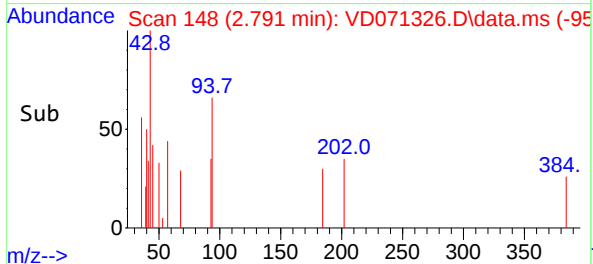
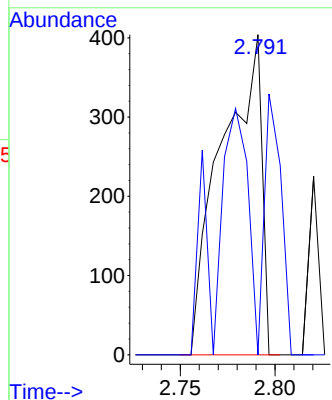
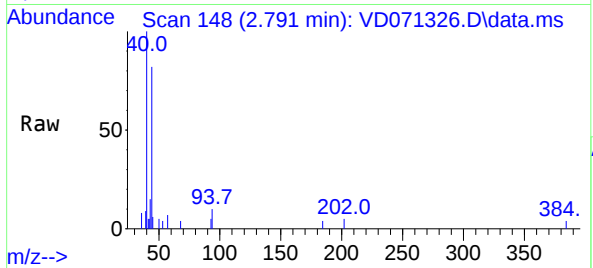




#5
Bromomethane
Concen: 2.615 ug/l
RT: 2.791 min Scan# 146
Delta R.T. 0.012 min
Lab File: VD071326.D
Acq: 14 Dec 2021 17:49

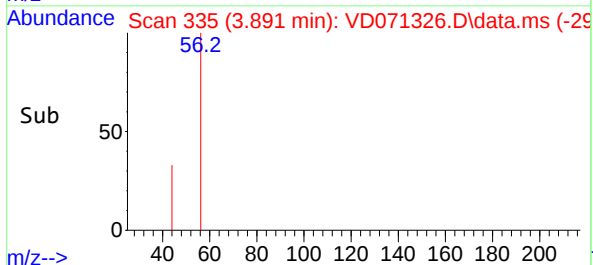
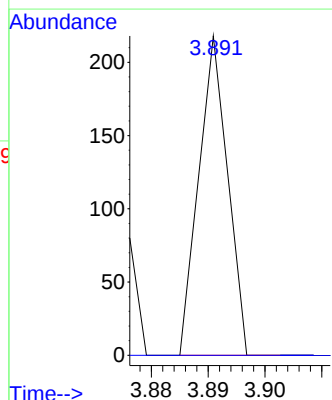
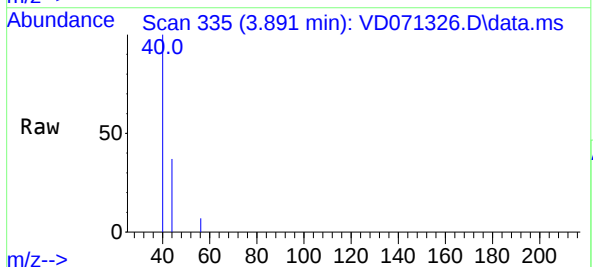
Instrument :
MSVOA_D
ClientSampleId :

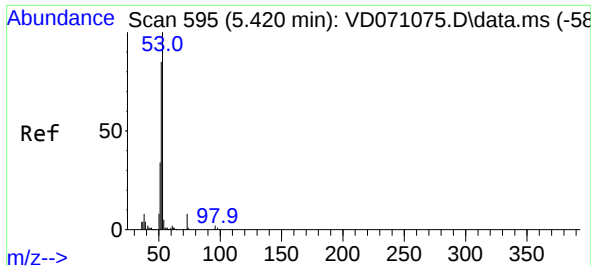
Tgt Ion: 94 Resp: 591
Ion Ratio Lower Upper
94 100
96 0.0 74.8 112.2#



#13
Acrolein
Concen: 3.856 ug/l
RT: 3.891 min Scan# 335
Delta R.T. -0.035 min
Lab File: VD071326.D
Acq: 14 Dec 2021 17:49

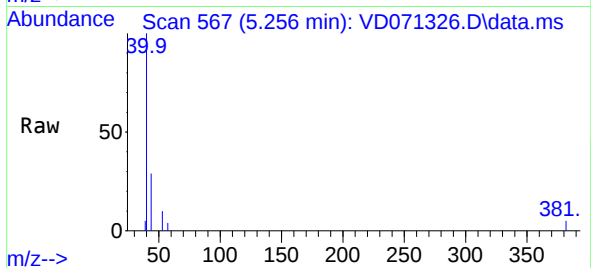
Tgt Ion: 56 Resp: 77
Ion Ratio Lower Upper
56 100
55 0.0 58.6 87.8#



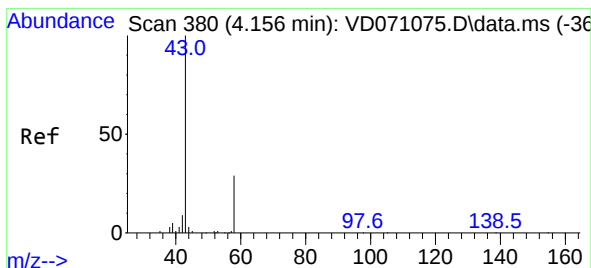
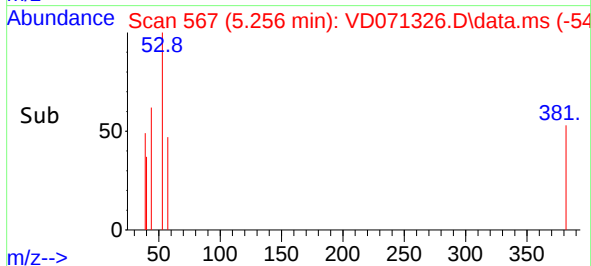
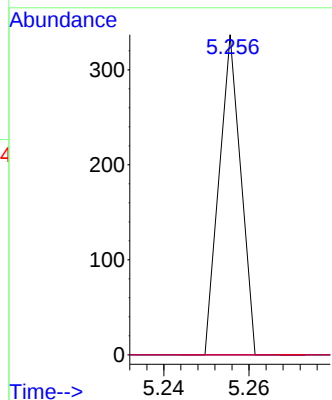


#15
Acrylonitrile
Concen: 2.125 ug/l
RT: 5.256 min Scan# 50
Delta R.T. -0.164 min
Lab File: VD071326.D
Acq: 14 Dec 2021 17:49

Instrument :
MSVOA_D
ClientSampleId :

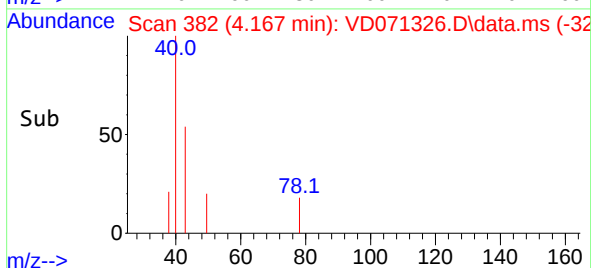
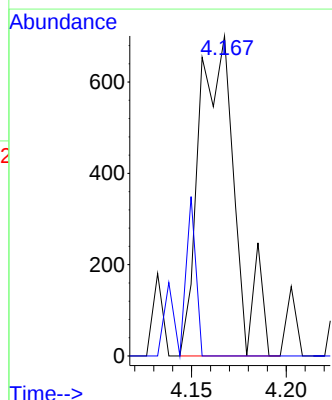
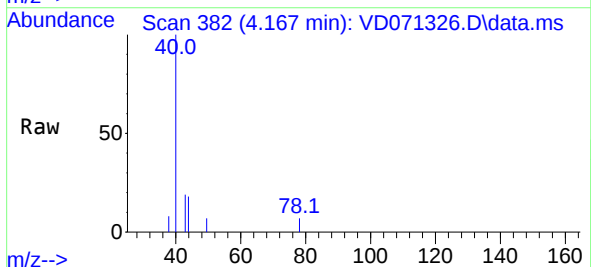


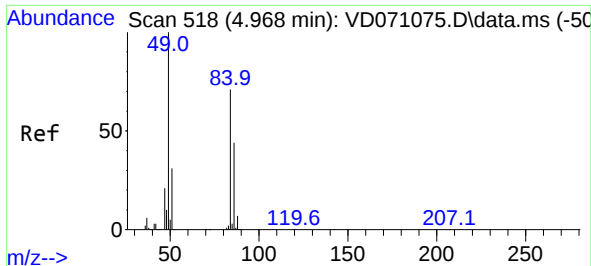
Tgt Ion: 53 Resp: 119
Ion Ratio Lower Upper
53 100
52 0.0 63.8 95.8#
51 0.0 28.5 42.7#



#16
Acetone
Concen: 41.305 ug/l
RT: 4.167 min Scan# 382
Delta R.T. 0.011 min
Lab File: VD071326.D
Acq: 14 Dec 2021 17:49

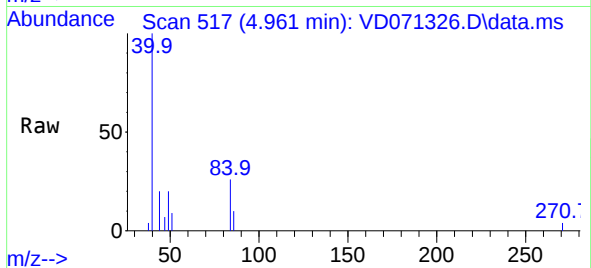
Tgt Ion: 43 Resp: 930
Ion Ratio Lower Upper
43 100
58 0.0 27.8 41.8#



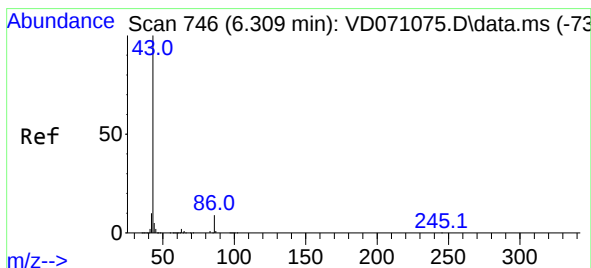
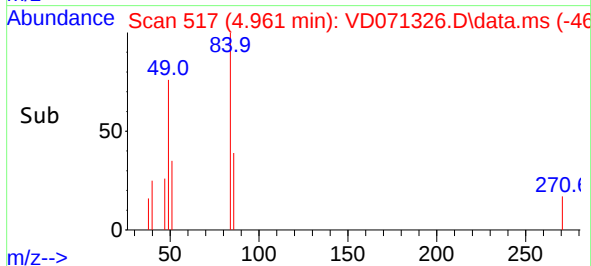
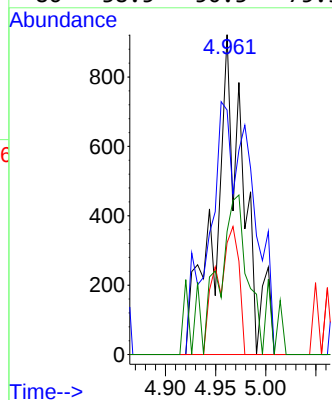


#20
Methylene Chloride
Concen: 2.288 ug/l
RT: 4.961 min Scan# 518
Delta R.T. -0.007 min
Lab File: VD071326.D
Acq: 14 Dec 2021 17:49

Instrument :
MSVOA_D
ClientSampleId :

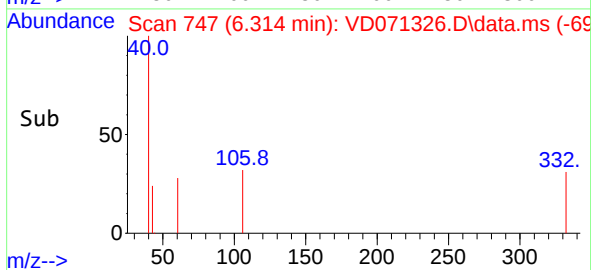
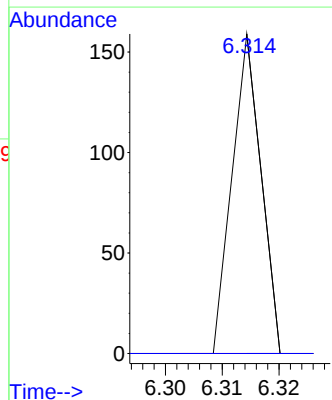
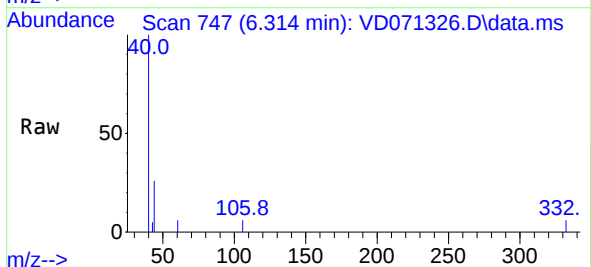


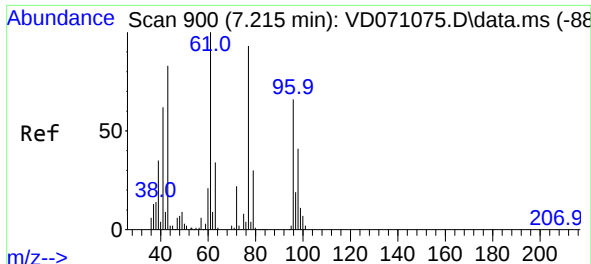
Tgt Ion:	84	Resp:	1850
Ion	Ratio	Lower	Upper
84	100		
49	76.5	95.8	143.6#
51	34.9	30.9	46.3
86	38.5	50.3	75.5#



#23
Vinyl Acetate
Concen: 27.323 ug/l
RT: 6.314 min Scan# 747
Delta R.T. 0.005 min
Lab File: VD071326.D
Acq: 14 Dec 2021 17:49

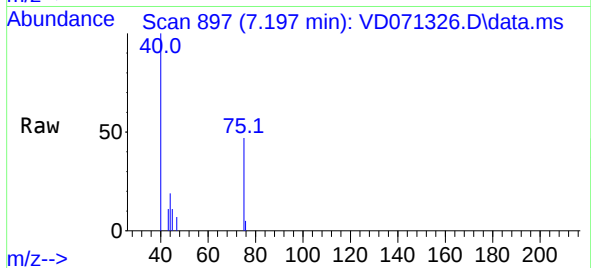
Tgt Ion:	43	Resp:	56
Ion	Ratio	Lower	Upper
43	100		
86	0.0	8.2	12.4#



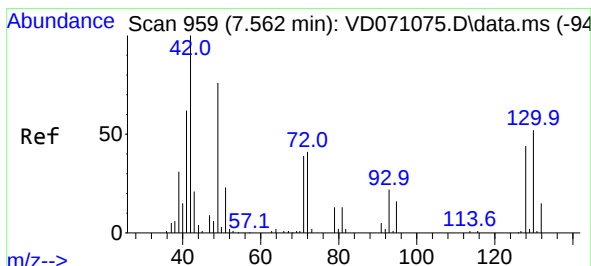
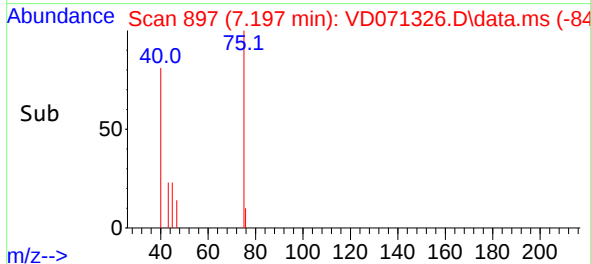
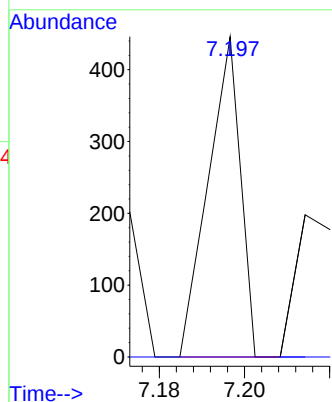


#25
2-Butanone
Concen: 30.674 ug/l
RT: 7.197 min Scan# 897
Delta R.T. -0.018 min
Lab File: VD071326.D
Acq: 14 Dec 2021 17:49

Instrument :
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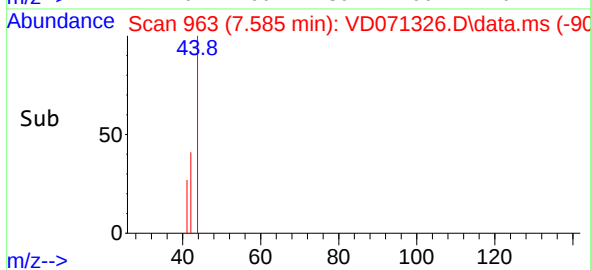
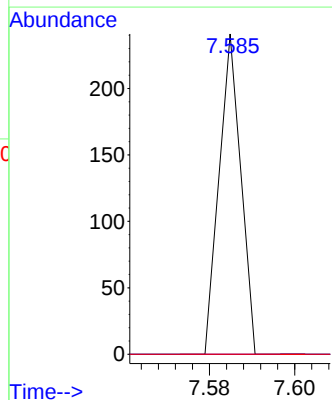
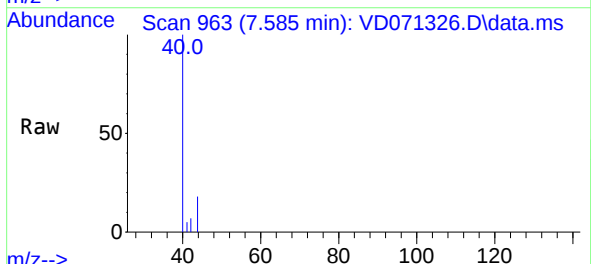


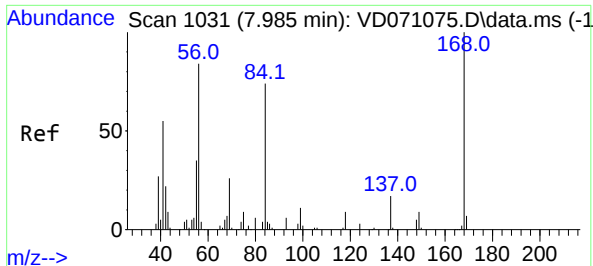
Tgt Ion: 43 Resp: 234
Ion Ratio Lower Upper
43 100
72 0.0 23.8 35.6#



#29
Tetrahydrofuran
Concen: 1.832 ug/l
RT: 7.585 min Scan# 963
Delta R.T. 0.023 min
Lab File: VD071326.D
Acq: 14 Dec 2021 17:49

Tgt Ion: 42 Resp: 85
Ion Ratio Lower Upper
42 100
72 0.0 33.7 50.5#
71 0.0 32.7 49.1#

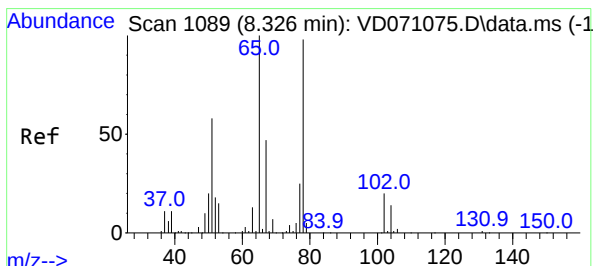
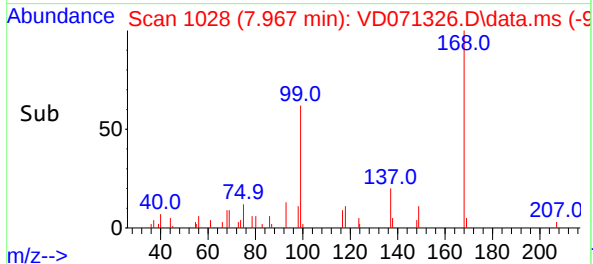
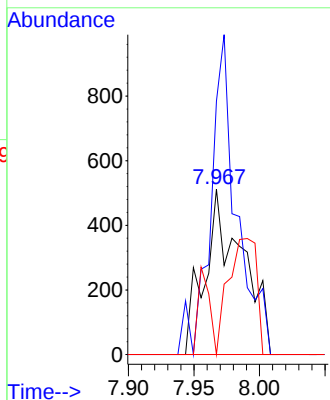
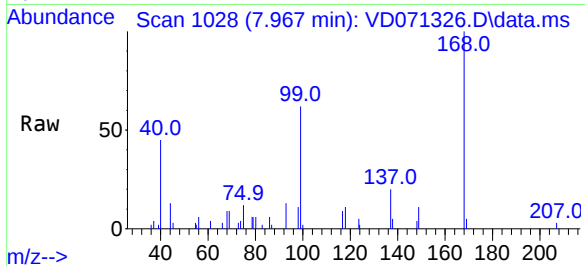




#31
Cyclohexane
Concen: 2.050 ug/l
RT: 7.967 min Scan# 1019
Delta R.T. -0.018 min
Lab File: VD071326.D
Acq: 14 Dec 2021 17:49

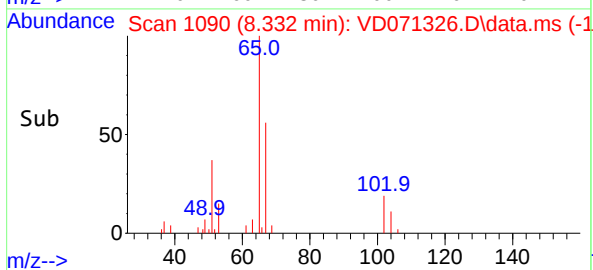
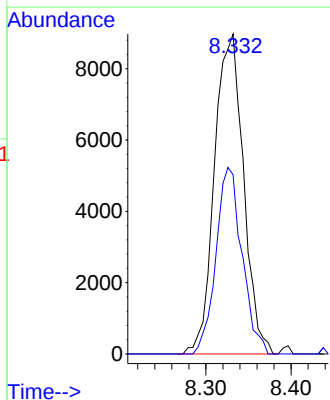
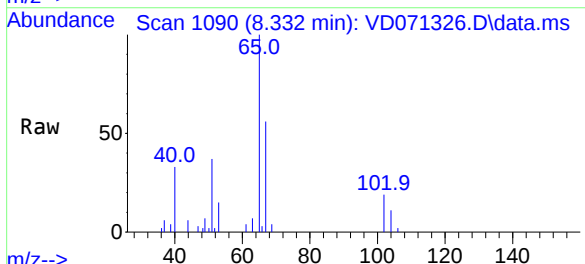
Instrument :
MSVOA_D
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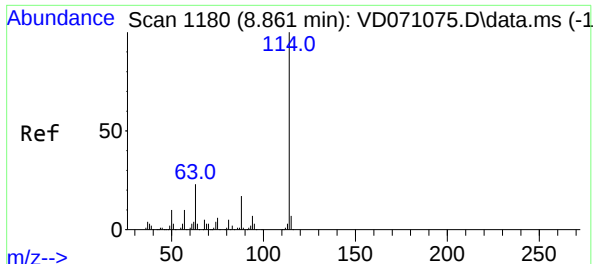
Tgt Ion: 56 Resp: 1019
Ion Ratio Lower Upper
56 100
69 153.1 25.9 38.9#
84 0.0 64.3 96.5#



#33
1,2-Dichloroethane-d4
Concen: 72.665 ug/l
RT: 8.332 min Scan# 1090
Delta R.T. 0.006 min
Lab File: VD071326.D
Acq: 14 Dec 2021 17:49

Tgt Ion: 65 Resp: 21235
Ion Ratio Lower Upper
65 100
67 52.4 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: VD071326.D

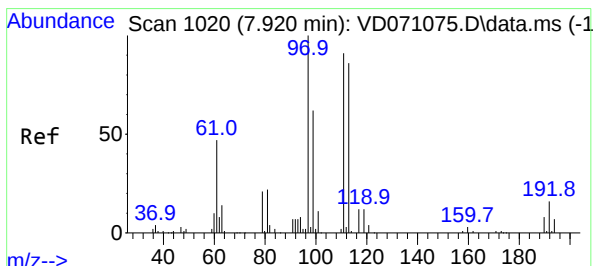
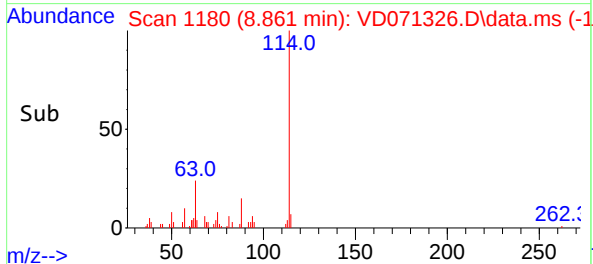
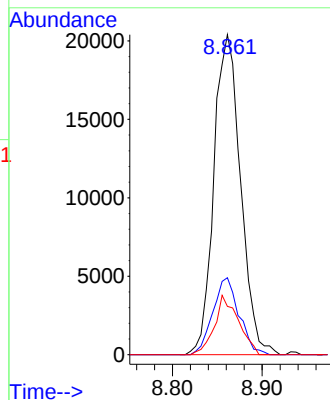
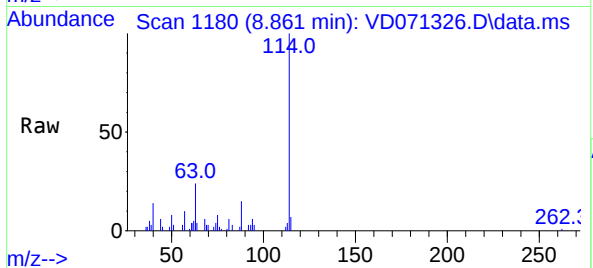
Acq: 14 Dec 2021 17:49

Instrument :

MSVOA_D

ClientSampleId :

Tgt Ion:	114	Resp:	42168
Ion	Ratio	Lower	Upper
114	100		
63	24.0	0.0	41.8
88	15.1	0.0	32.8



#35

Dibromofluoromethane

Concen: 51.150 ug/l

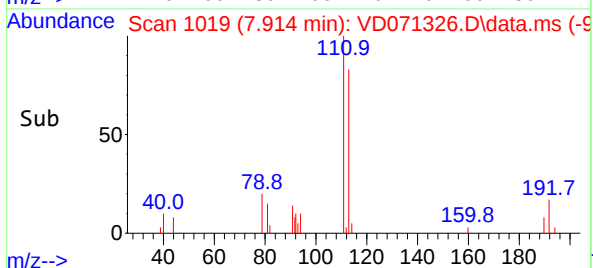
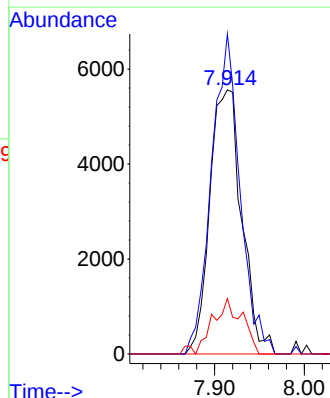
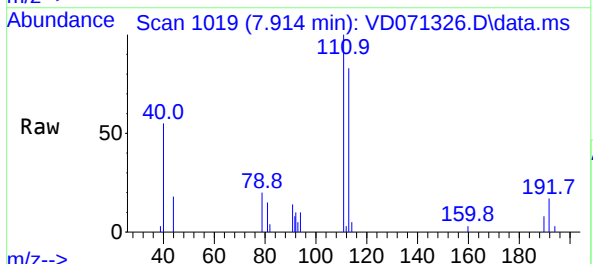
RT: 7.914 min Scan# 1019

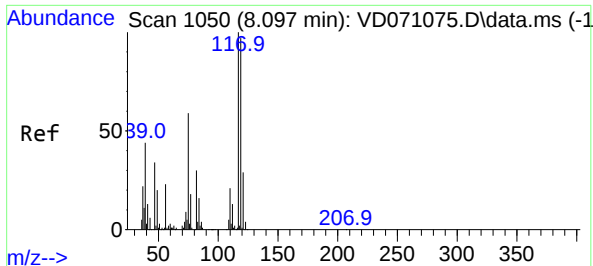
Delta R.T. -0.006 min

Lab File: VD071326.D

Acq: 14 Dec 2021 17:49

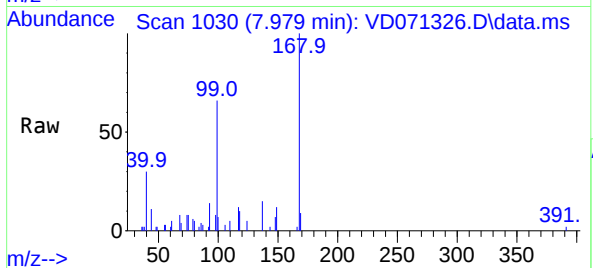
Tgt Ion:	113	Resp:	13735
Ion	Ratio	Lower	Upper
113	100		
111	108.5	82.0	123.0
192	19.8	15.2	22.8



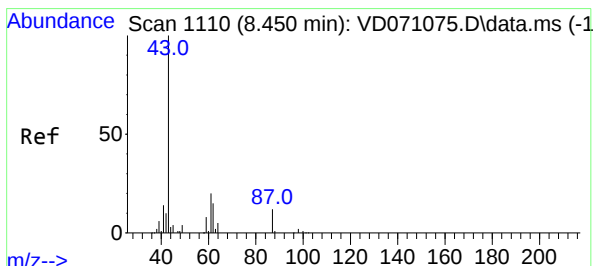
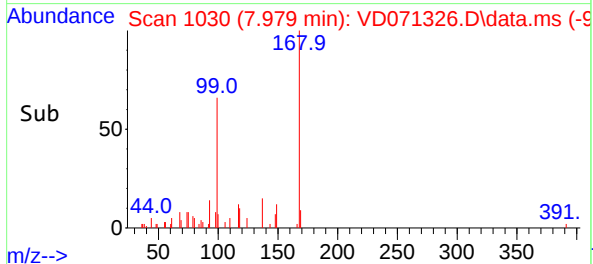
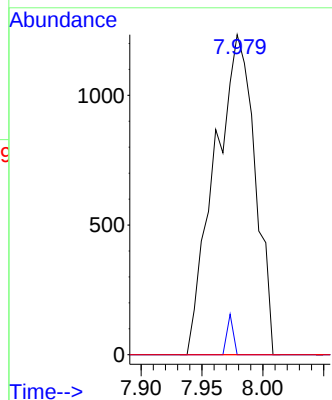


#38
Carbon Tetrachloride
Concen: 7.315 ug/l
RT: 7.979 min Scan# 1107
Delta R.T. -0.118 min
Lab File: VD071326.D
Acq: 14 Dec 2021 17:49

Instrument :
MSVOA_D
ClientSampleId :

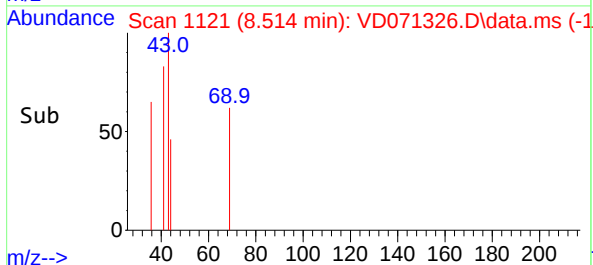
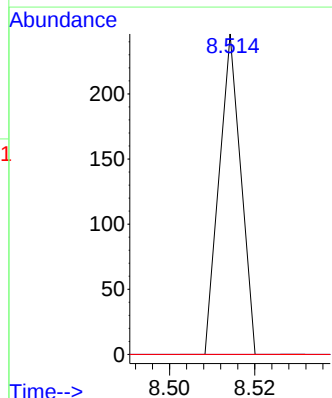
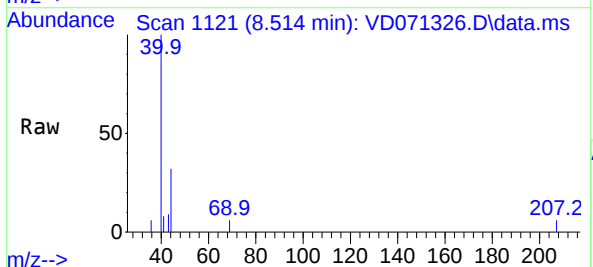


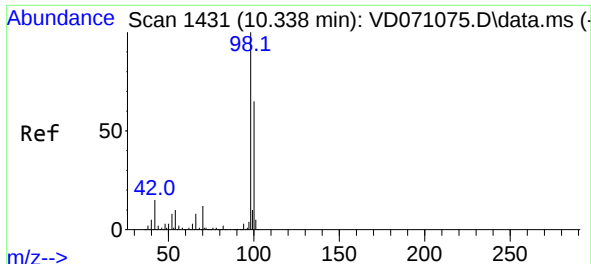
Tgt Ion:117 Resp: 2842
Ion Ratio Lower Upper
117 100
119 0.0 75.8 113.6#
121 0.0 23.6 35.4#



#43
Isopropyl Acetate
Concen: 5.431 ug/l
RT: 8.514 min Scan# 1121
Delta R.T. 0.064 min
Lab File: VD071326.D
Acq: 14 Dec 2021 17:49

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

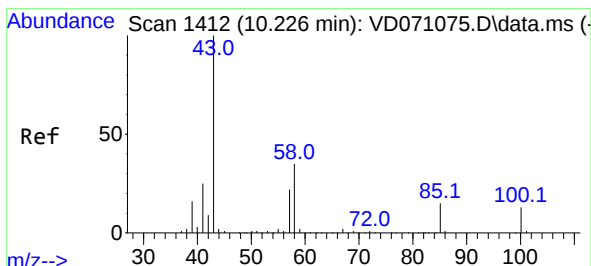
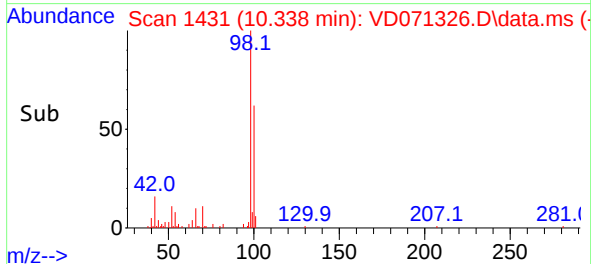
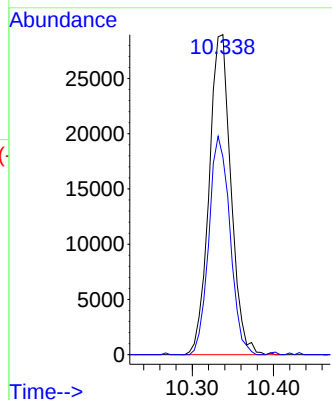
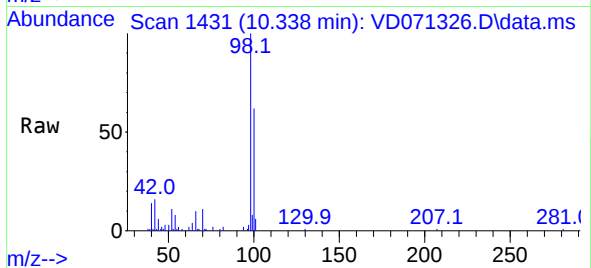




#50
Toluene-d8
Concen: 52.978 ug/l
RT: 10.338 min Scan# 1431
Delta R.T. -0.000 min
Lab File: VD071326.D
Acq: 14 Dec 2021 17:49

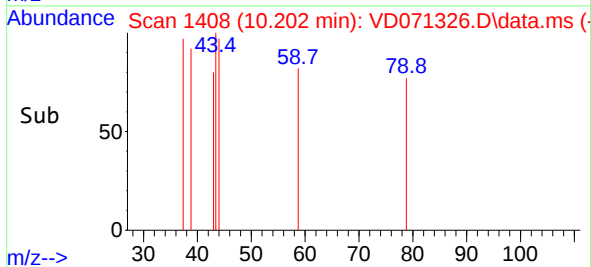
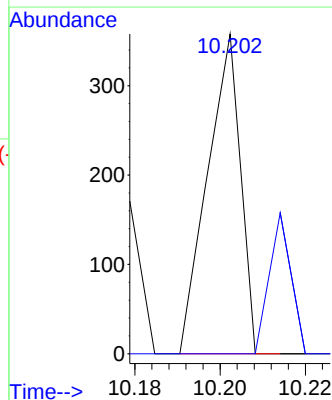
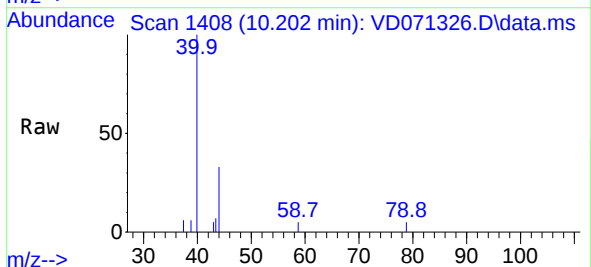
Instrument :
MSVOA_D
ClientSampleId :

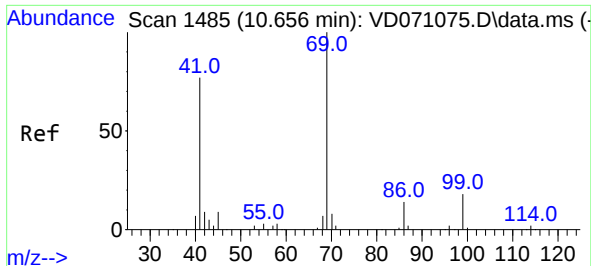
Tgt Ion: 98 Resp: 54136
Ion Ratio Lower Upper
98 100
100 65.9 51.8 77.6



#51
4-Methyl-2-Pentanone
Concen: 31.529 ug/l
RT: 10.202 min Scan# 1408
Delta R.T. -0.024 min
Lab File: VD071326.D
Acq: 14 Dec 2021 17:49

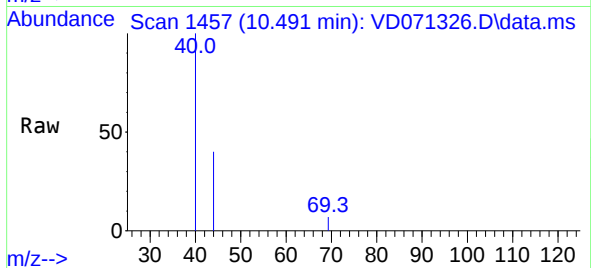
Tgt Ion: 43 Resp: 192
Ion Ratio Lower Upper
43 100
58 29.2 33.1 49.7#



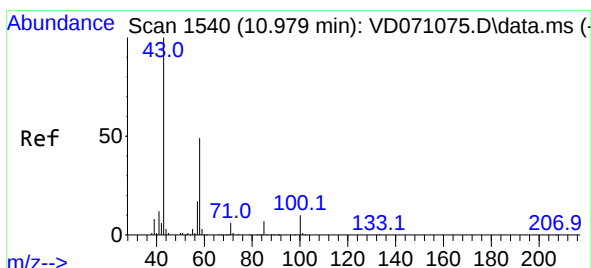
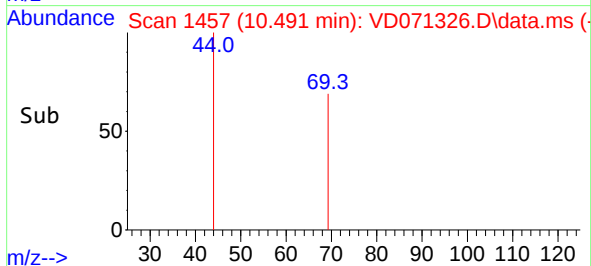
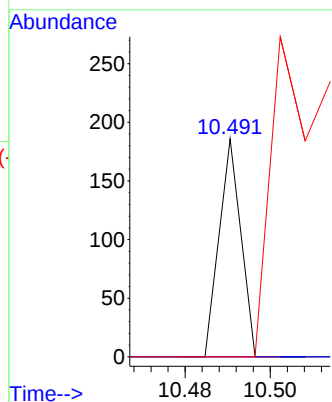


#56
Ethyl methacrylate
Concen: 6.181 ug/l
RT: 10.491 min Scan# 1485
Delta R.T. -0.165 min
Lab File: VD071326.D
Acq: 14 Dec 2021 17:49

Instrument :
MSVOA_D
ClientSampleId :

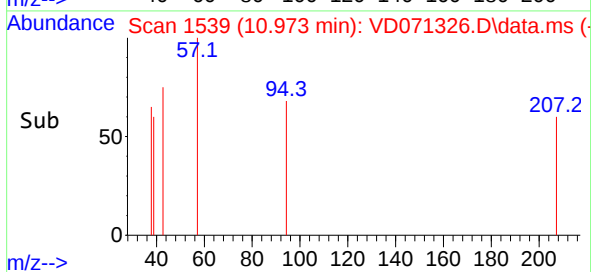
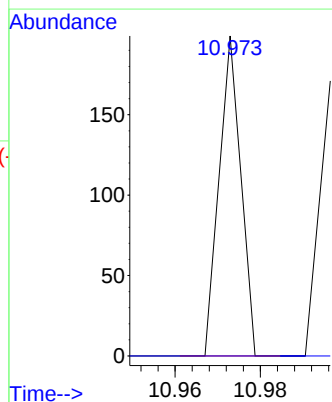
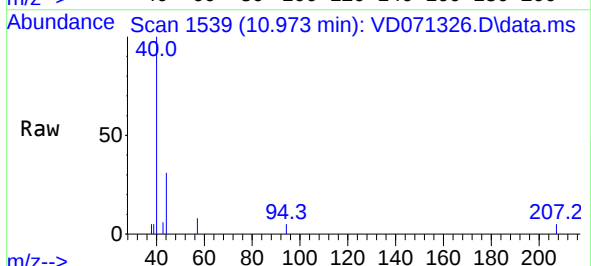


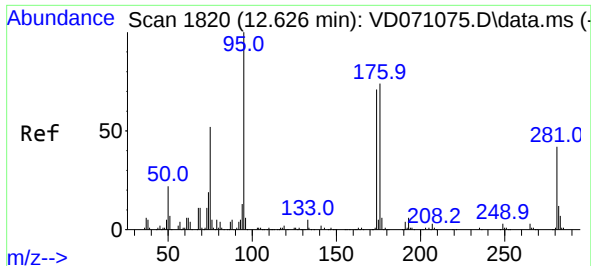
Tgt Ion: 69 Resp: 66
Ion Ratio Lower Upper
69 100
41 0.0 50.2 75.2#
39 369.7 19.8 29.8#



#59
2-Hexanone
Concen: 34.991 ug/l
RT: 10.973 min Scan# 1539
Delta R.T. -0.006 min
Lab File: VD071326.D
Acq: 14 Dec 2021 17:49

Tgt Ion: 43 Resp: 70
Ion Ratio Lower Upper
43 100
58 0.0 28.7 86.1#

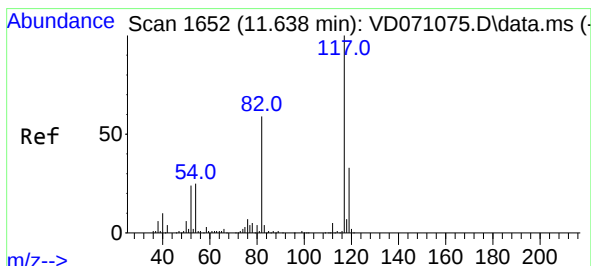
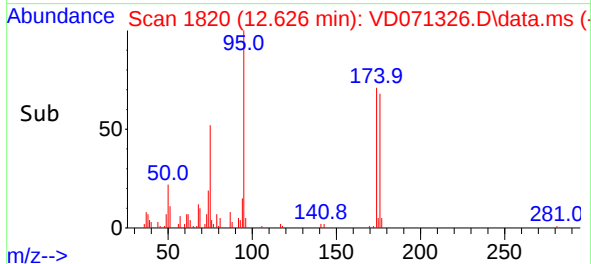
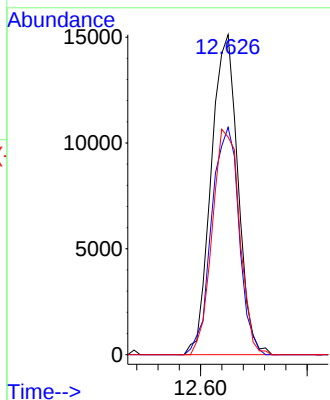
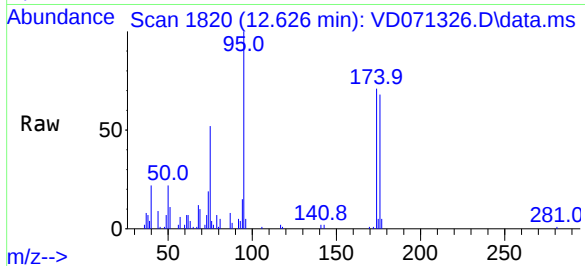




#62
4-Bromofluorobenzene
Concen: 74.212 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VD071326.D
Acq: 14 Dec 2021 17:49

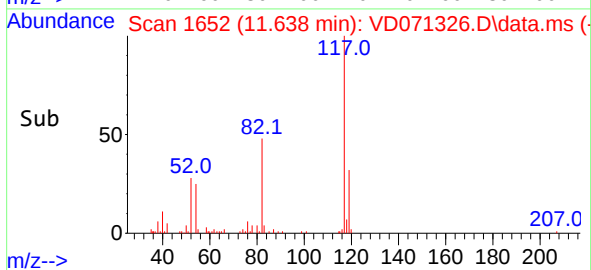
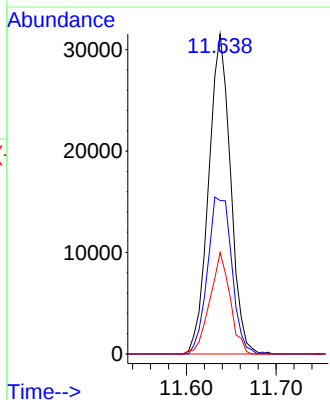
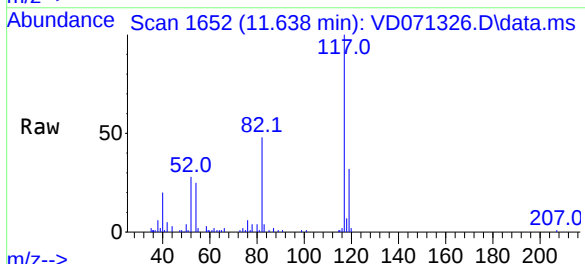
Instrument :
MSVOA_D
ClientSampleId :

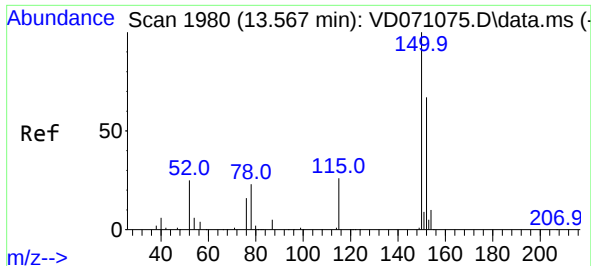
Tgt Ion: 95 Resp: 26287
Ion Ratio Lower Upper
95 100
174 73.0 0.0 159.4
176 72.0 0.0 154.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. -0.000 min
Lab File: VD071326.D
Acq: 14 Dec 2021 17:49

Tgt Ion: 117 Resp: 53390
Ion Ratio Lower Upper
117 100
82 47.9 44.7 67.1
119 31.7 26.2 39.4

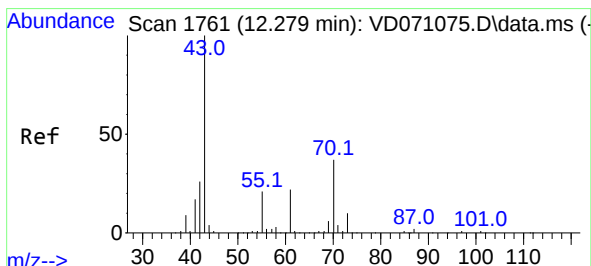
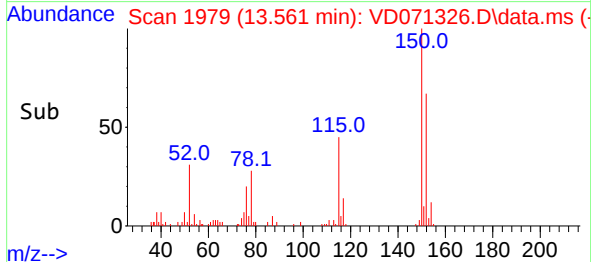
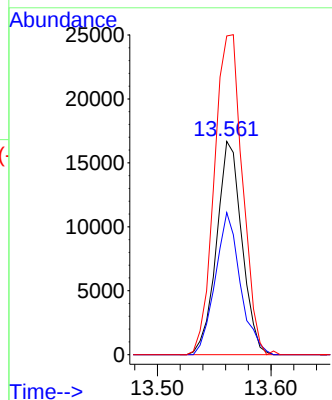
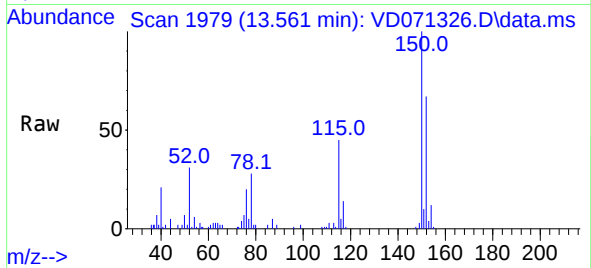




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.561 min Scan# 1980
Delta R.T. -0.006 min
Lab File: VD071326.D
Acq: 14 Dec 2021 17:49

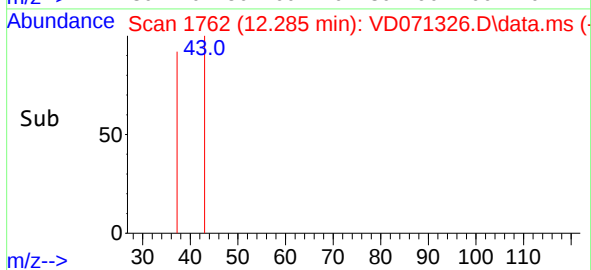
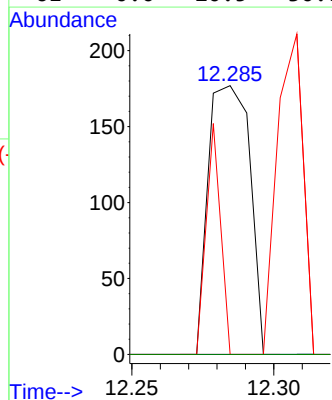
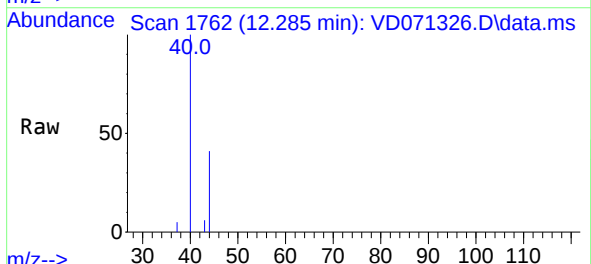
Instrument :
MSVOA_D
ClientSampleId :

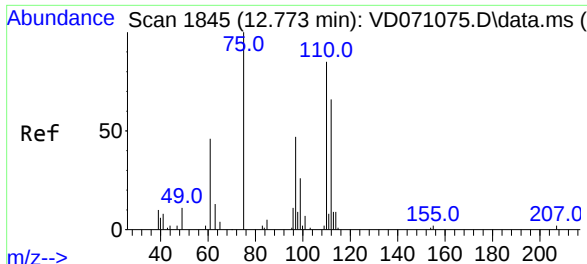
Tgt Ion:152 Resp: 25851
Ion Ratio Lower Upper
152 100
115 66.0 29.8 89.3
150 167.0 0.0 349.2



#74
N-ethyl acetate
Concen: 6.011 ug/l
RT: 12.285 min Scan# 1762
Delta R.T. 0.006 min
Lab File: VD071326.D
Acq: 14 Dec 2021 17:49

Tgt Ion: 43 Resp: 179
Ion Ratio Lower Upper
43 100
70 0.0 36.6 55.0#
55 30.2 22.5 33.7
61 0.0 20.5 30.7#

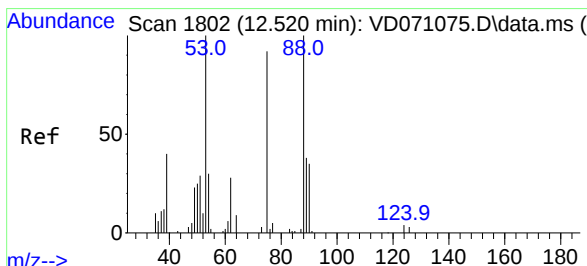
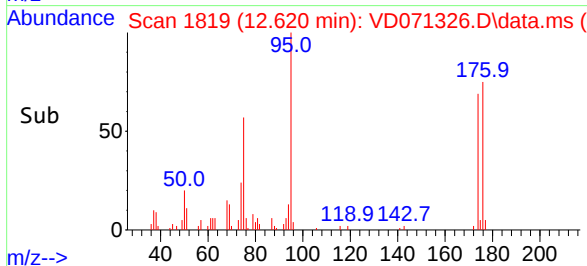
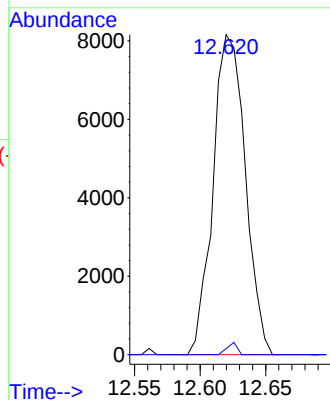
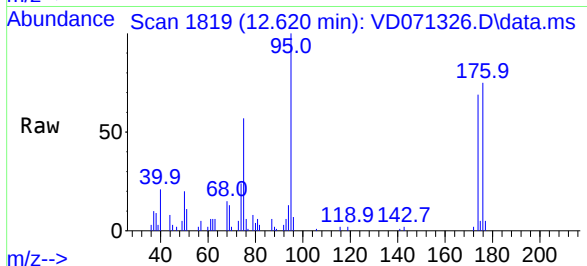




#76
1,2,3-Trichloropropane
Concen: 56.813 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.153 min
Lab File: VD071326.D
Acq: 14 Dec 2021 17:49

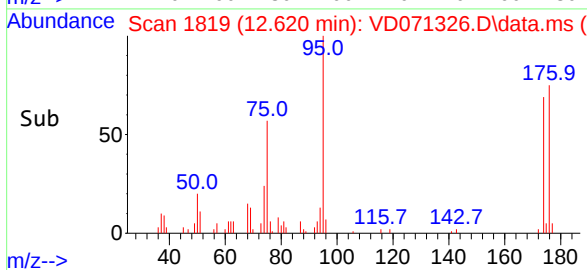
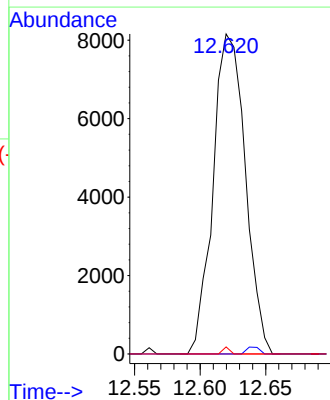
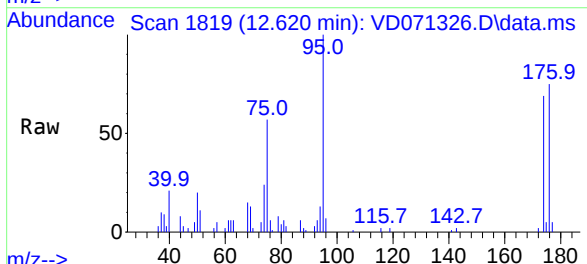
Instrument :
MSVOA_D
ClientSampleId :

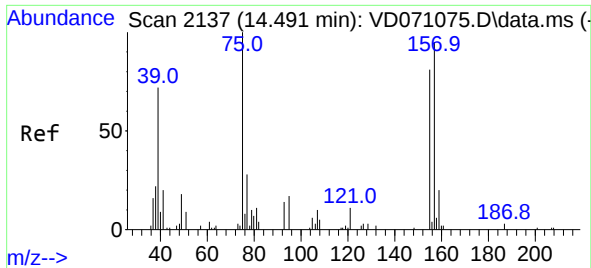
Tgt Ion: 75 Resp: 13993
Ion Ratio Lower Upper
75 100
77 1.2 158.4 475.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 123.312 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.100 min
Lab File: VD071326.D
Acq: 14 Dec 2021 17:49

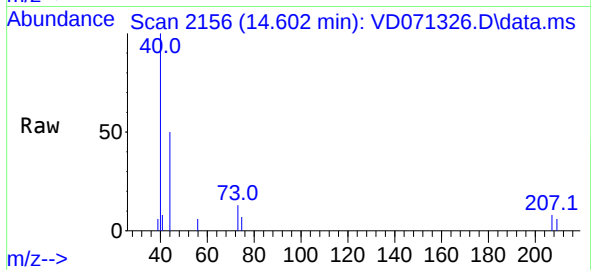
Tgt Ion: 75 Resp: 13993
Ion Ratio Lower Upper
75 100
53 0.9 62.6 94.0#
89 0.5 34.5 51.7#





#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.454 ug/l
 RT: 14.602 min Scan# 21
 Delta R.T. 0.111 min
 Lab File: VD071326.D
 Acq: 14 Dec 2021 17:49

Instrument :
 MSVOA_D
 ClientSampleId :



Tgt Ion:	75	Resp:	73
Ion	Ratio	Lower	Upper
75	100		
155	0.0	40.0	120.0#
157	0.0	49.8	149.3#

