

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD121021\
 Data File : VD071247.D
 Acq On : 10 Dec 2021 13:08
 Operator : VA/SY
 Sample : M4967-01RE
 Misc : 5.00G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 10 15:25:12 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D112921S.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 29 17:54:09 2021
 Response via : Initial Calibration

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

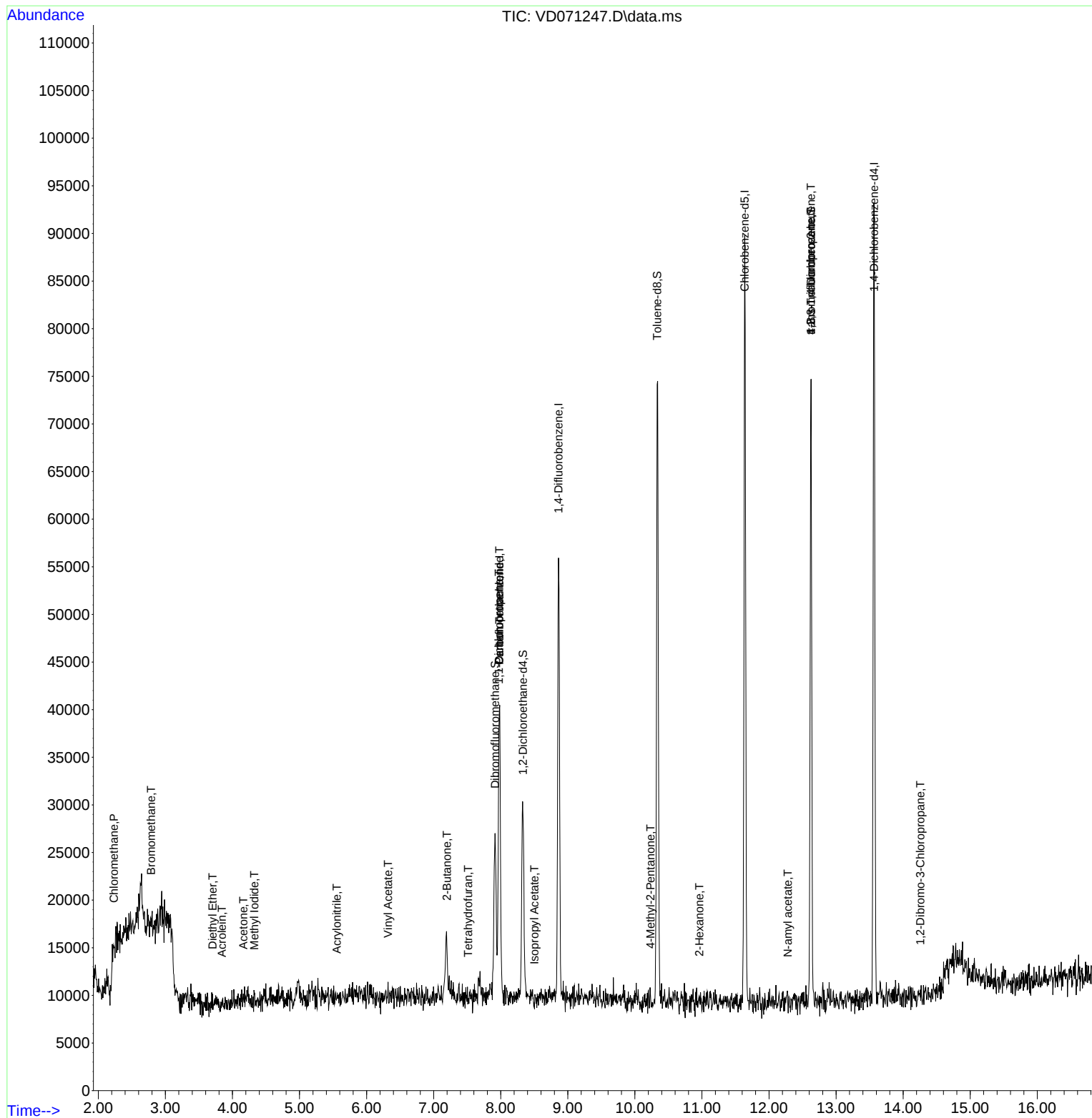
Internal Standards						
1) Pentafluorobenzene	7.979	168	21051	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	34514	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	40005	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	20015	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.332	65	16116	65.245	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 130.480%	
35) Dibromofluoromethane	7.914	113	12058	54.864	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 109.720%	
50) Toluene-d8	10.332	98	43996	52.603	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 105.200%	
62) 4-Bromofluorobenzene	12.626	95	20560	70.916	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 141.840%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.232	50	476	2.004	ug/l #	81
5) Bromomethane	2.785	94	699	3.660	ug/l #	63
8) Diethyl Ether	3.703	74	104	1.069	ug/l #	1
10) Methyl Iodide	4.326	142	68	4.812	ug/l #	40
11) Tert butyl alcohol	5.203	59	150	Below Cal	#	71
13) Acrolein	3.844	56	63	3.732	ug/l #	13
15) Acrylonitrile	5.556	53	55	1.162	ug/l #	19
16) Acetone	4.162	43	324	35.127	ug/l #	40
20) Methylene Chloride	4.967	84	932	Below Cal	#	51
23) Vinyl Acetate	6.320	43	163	27.579	ug/l #	72
25) 2-Butanone	7.197	43	393	32.958	ug/l #	45
29) Tetrahydrofuran	7.514	42	80	2.040	ug/l #	34
36) 1,1-Dichloropropene	7.973	75	2267	7.028	ug/l #	43
38) Carbon Tetrachloride	7.979	117	2635	8.287	ug/l #	12
41) Methacrylonitrile	7.497	41	66	Below Cal	#	10
43) Isopropyl Acetate	8.503	43	58	5.392	ug/l #	47
51) 4-Methyl-2-Pentanone	10.232	43	116	31.300	ug/l #	34
59) 2-Hexanone	10.961	43	62	35.025	ug/l #	22
74) N-amyl acetate	12.279	43	54	5.822	ug/l #	40
76) 1,2,3-Trichloropropane	12.626	75	11572	60.684	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.626	75	11572	131.319	ug/l #	18
92) 1,2-Dibromo-3-Chloropr...	14.255	75	64	1.647	ug/l #	4

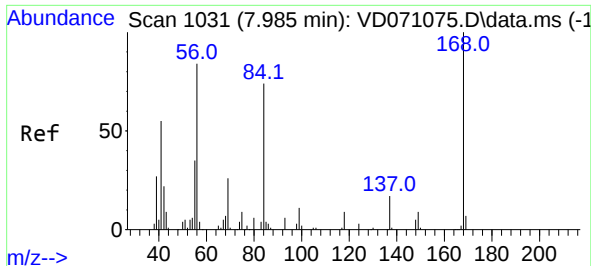
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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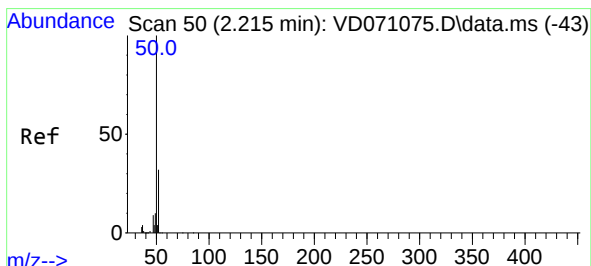
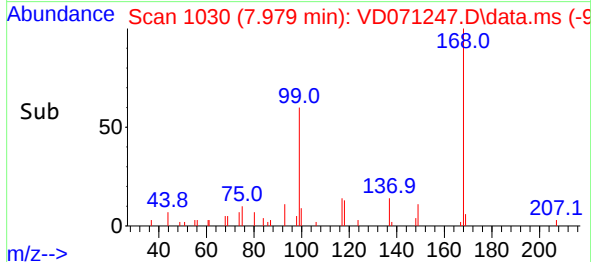
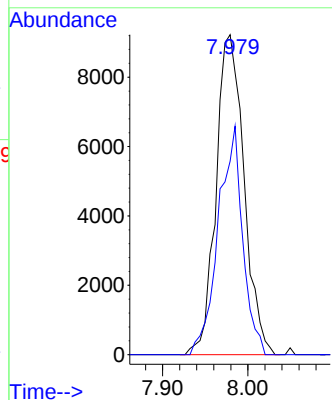
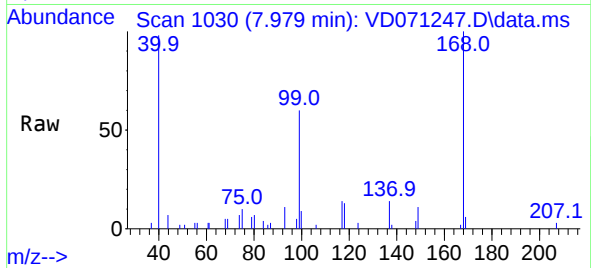




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.979 min Scan# 10
Delta R.T. -0.006 min
Lab File: VD071247.D
Acq: 10 Dec 2021 13:08

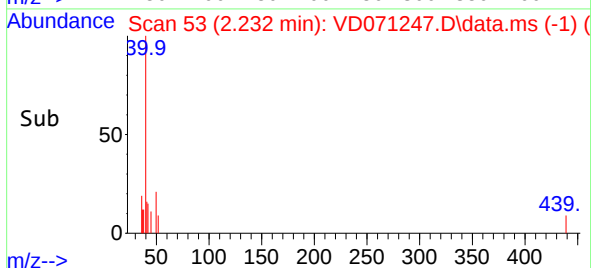
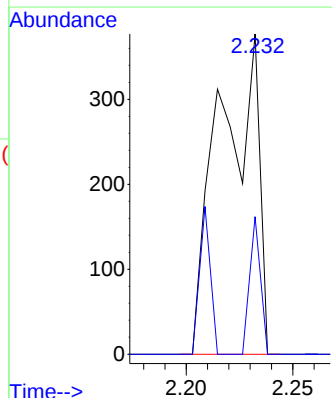
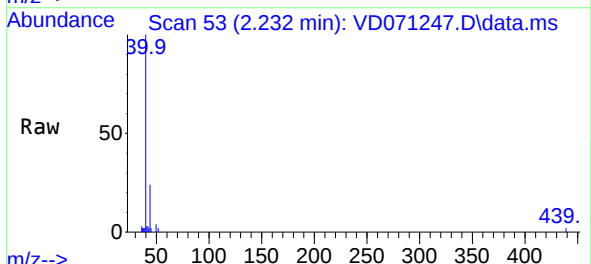
Instrument :
MSVOA_D
ClientSampleId :

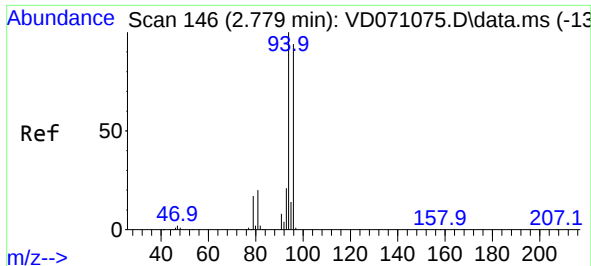
Tgt Ion:168 Resp: 21051
Ion Ratio Lower Upper
168 100
99 60.4 46.6 69.8



#3
Chloromethane
Concen: 2.004 ug/l
RT: 2.232 min Scan# 53
Delta R.T. 0.017 min
Lab File: VD071247.D
Acq: 10 Dec 2021 13:08

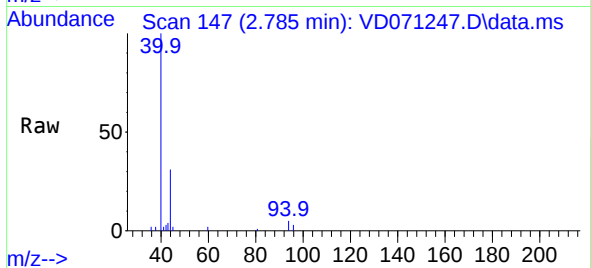
Tgt Ion: 50 Resp: 476
Ion Ratio Lower Upper
50 100
52 43.0 25.8 38.8#



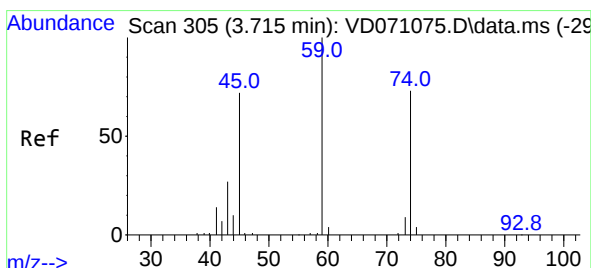
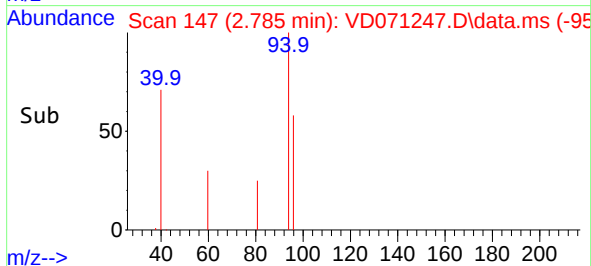
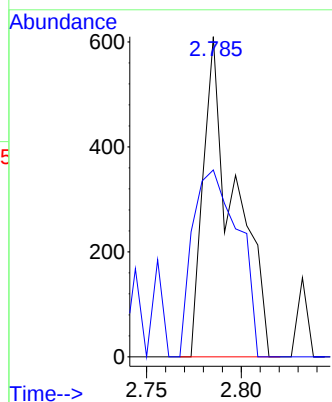


#5
Bromomethane
Concen: 3.660 ug/l
RT: 2.785 min Scan# 146
Delta R.T. 0.006 min
Lab File: VD071247.D
Acq: 10 Dec 2021 13:08

Instrument :
MSVOA_D
ClientSampleId :

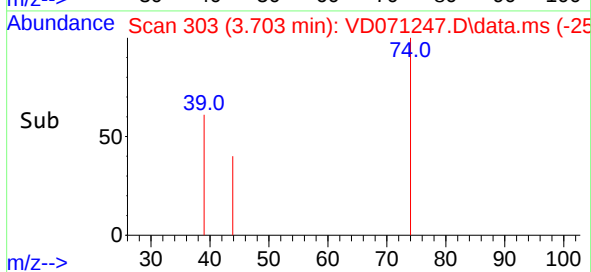
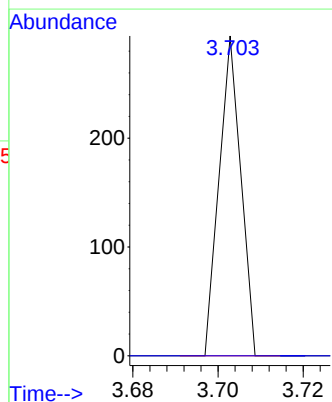
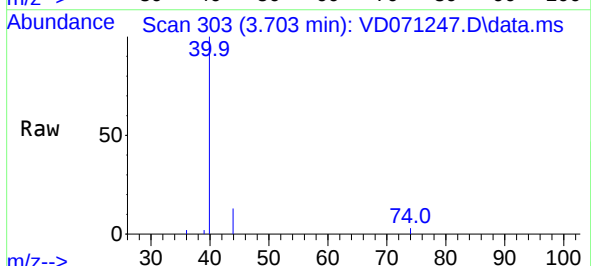


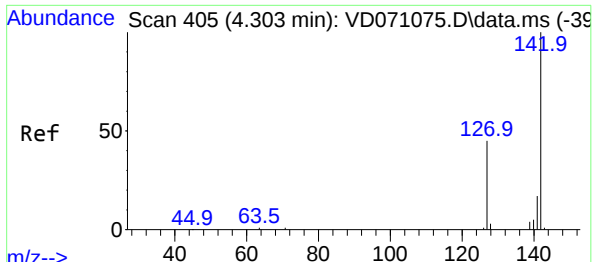
Tgt Ion: 94 Resp: 699
Ion Ratio Lower Upper
94 100
96 58.4 74.8 112.2#



#8
Diethyl Ether
Concen: 1.069 ug/l
RT: 3.703 min Scan# 303
Delta R.T. -0.012 min
Lab File: VD071247.D
Acq: 10 Dec 2021 13:08

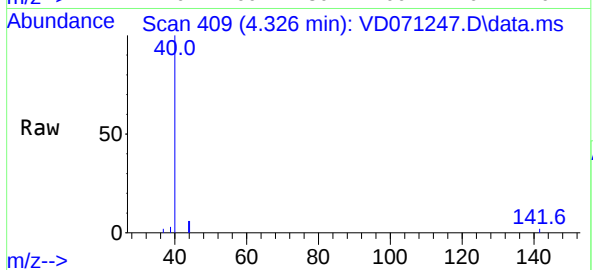
Tgt Ion: 74 Resp: 104
Ion Ratio Lower Upper
74 100
45 0.0 49.6 149.0#



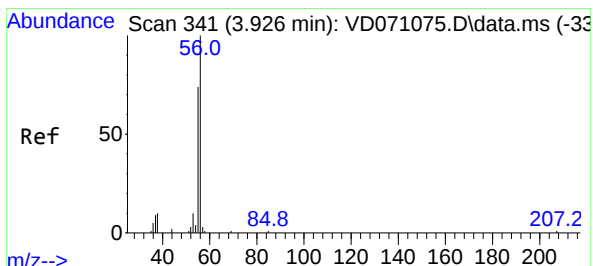
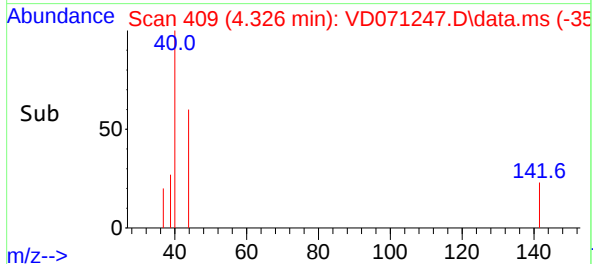
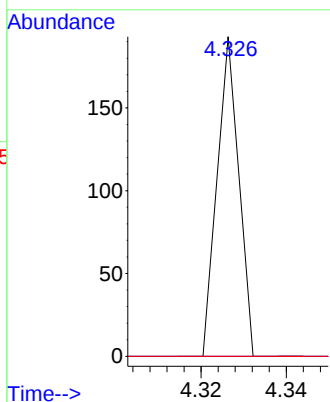


#10
Methyl Iodide
Concen: 4.812 ug/l
RT: 4.326 min Scan# 409
Delta R.T. 0.023 min
Lab File: VD071247.D
Acq: 10 Dec 2021 13:08

Instrument :
MSVOA_D
ClientSampleId :

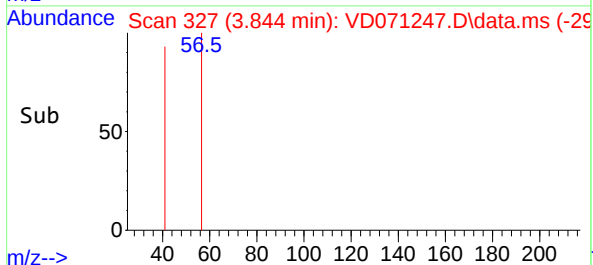
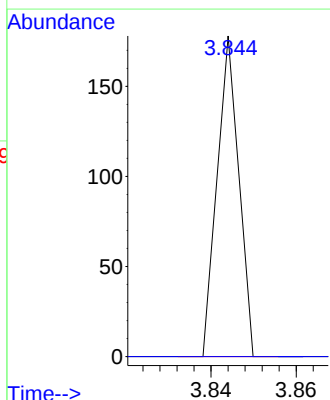
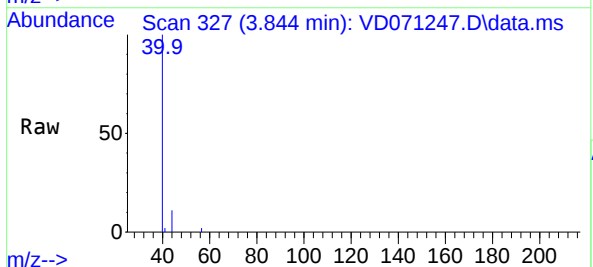


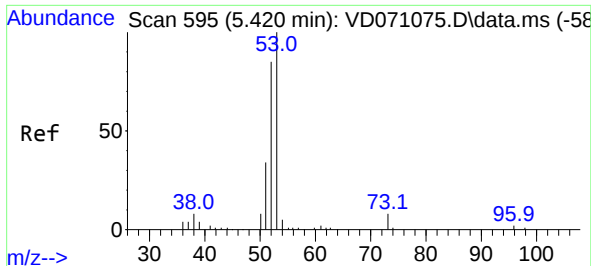
Tgt Ion:142 Resp: 68
Ion Ratio Lower Upper
142 100
127 0.0 35.0 52.4#
141 0.0 12.0 18.0#



#13
Acrolein
Concen: 3.732 ug/l
RT: 3.844 min Scan# 327
Delta R.T. -0.082 min
Lab File: VD071247.D
Acq: 10 Dec 2021 13:08

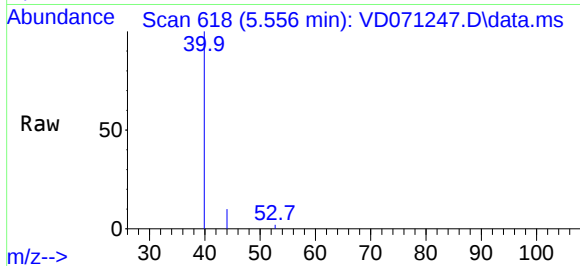
Tgt Ion: 56 Resp: 63
Ion Ratio Lower Upper
56 100
55 0.0 58.6 87.8#



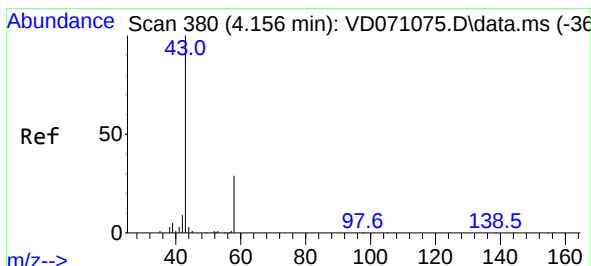
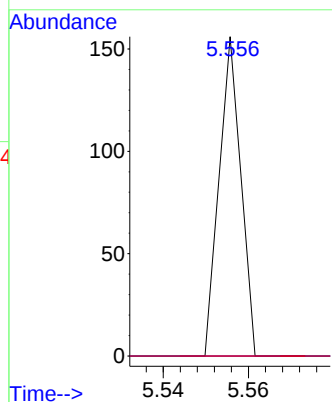


#15
Acrylonitrile
Concen: 1.162 ug/l
RT: 5.556 min Scan# 61
Delta R.T. 0.136 min
Lab File: VD071247.D
Acq: 10 Dec 2021 13:08

Instrument :
MSVOA_D
ClientSampleId :

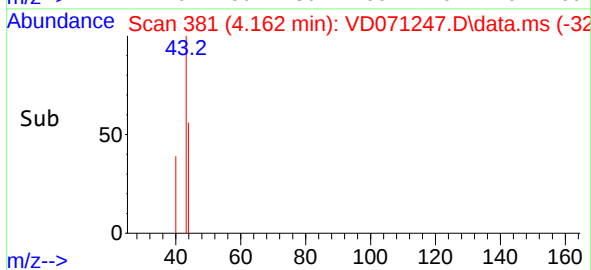
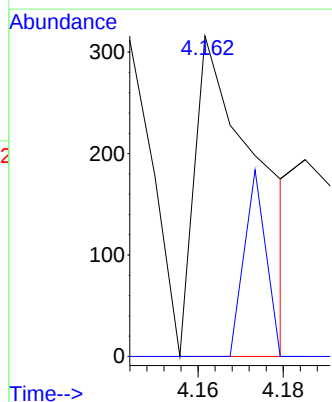
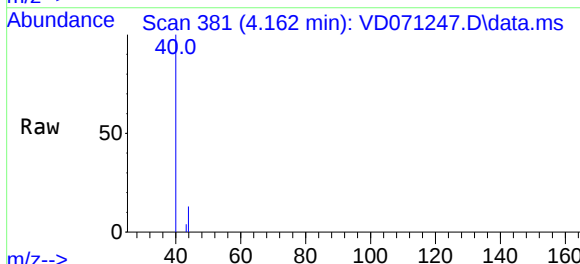


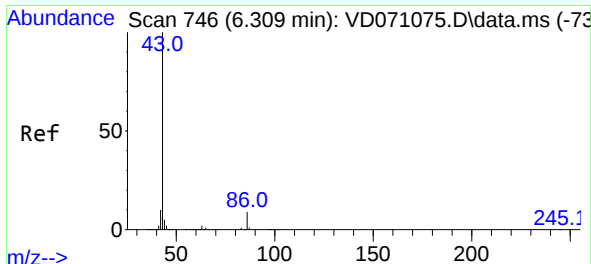
Tgt Ion: 53 Resp: 55
Ion Ratio Lower Upper
53 100
52 0.0 63.8 95.8#
51 0.0 28.5 42.7#



#16
Acetone
Concen: 35.127 ug/l
RT: 4.162 min Scan# 381
Delta R.T. 0.006 min
Lab File: VD071247.D
Acq: 10 Dec 2021 13:08

Tgt Ion: 43 Resp: 324
Ion Ratio Lower Upper
43 100
58 0.0 27.8 41.8#





#23

Vinyl Acetate

Concen: 27.579 ug/l

RT: 6.320 min Scan# 746

Delta R.T. 0.011 min

Lab File: VD071247.D

Acq: 10 Dec 2021 13:08

Instrument :

MSVOA_D

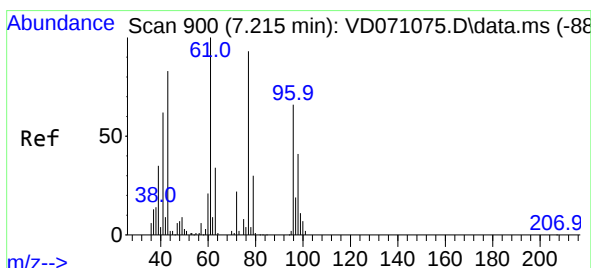
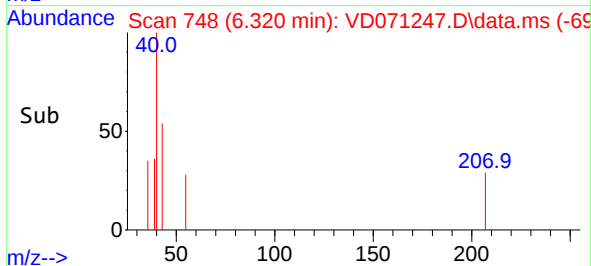
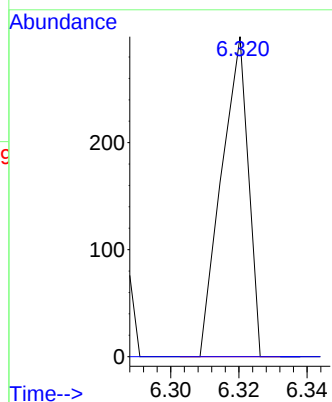
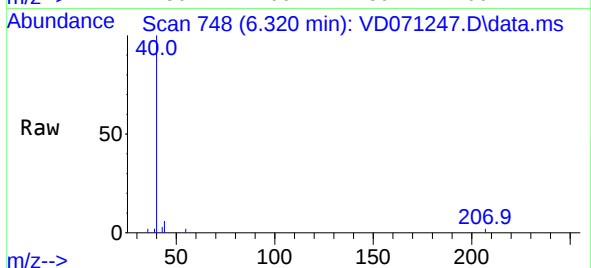
ClientSampleId :

Tgt Ion: 43 Resp: 163

Ion Ratio Lower Upper

43 100

86 0.0 8.2 12.4#



#25

2-Butanone

Concen: 32.958 ug/l

RT: 7.197 min Scan# 897

Delta R.T. -0.018 min

Lab File: VD071247.D

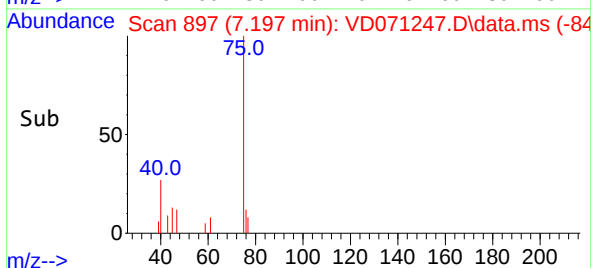
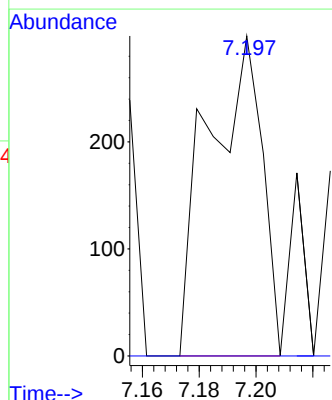
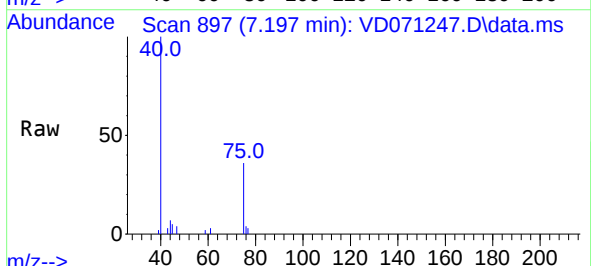
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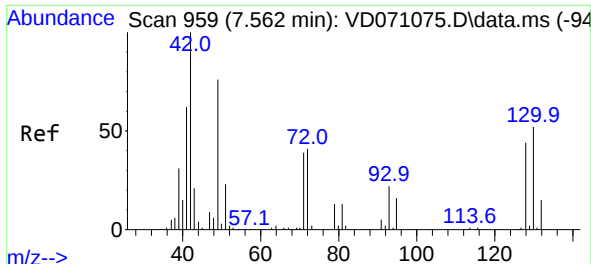
Tgt Ion: 43 Resp: 393

Ion Ratio Lower Upper

43 100

72 0.0 23.8 35.6#





#29

Tetrahydrofuran

Concen: 2.040 ug/l

RT: 7.514 min Scan# 91

Delta R.T. -0.048 min

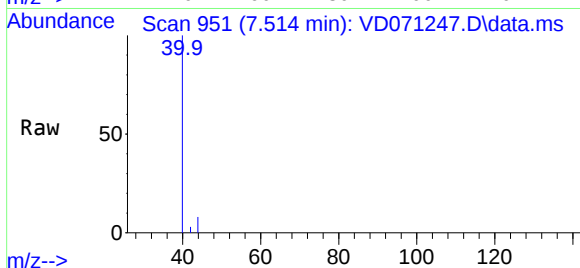
Lab File: VD071247.D

Acq: 10 Dec 2021 13:08

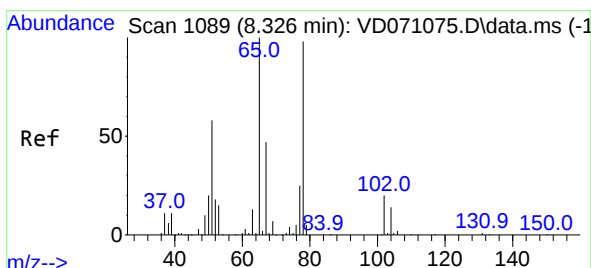
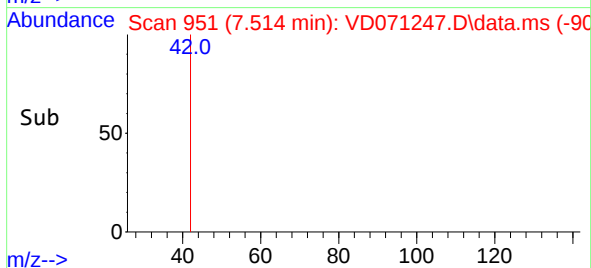
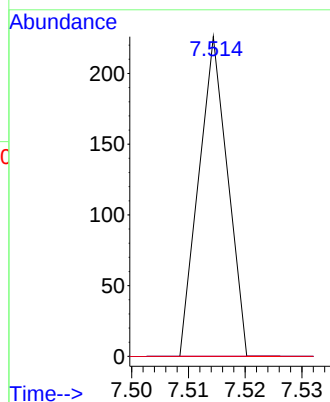
Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion:	42	Resp:	80
Ion	Ratio	Lower	Upper
42	100		
72	0.0	33.7	50.5#
71	0.0	32.7	49.1#



#33

1,2-Dichloroethane-d4

Concen: 65.245 ug/l

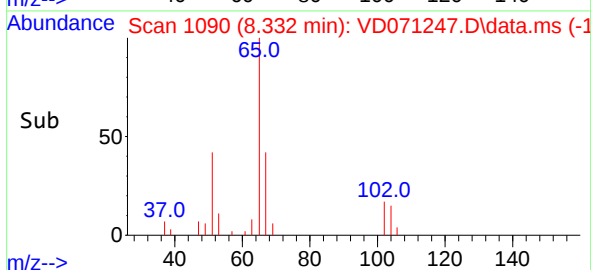
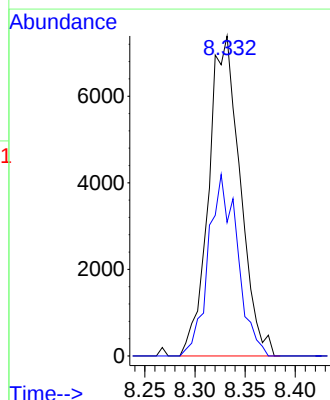
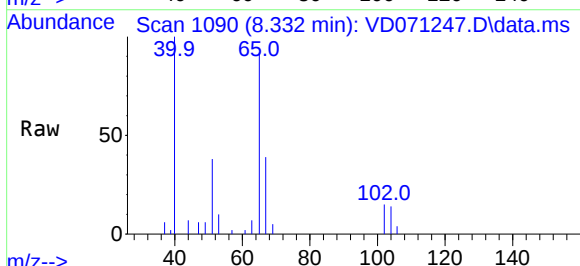
RT: 8.332 min Scan# 1090

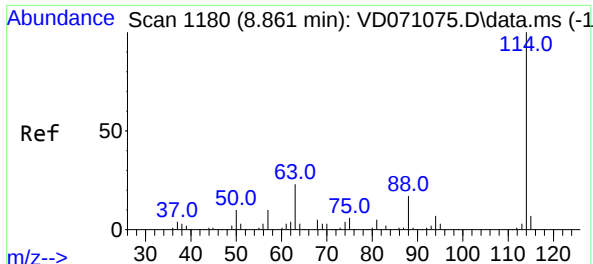
Delta R.T. 0.006 min

Lab File: VD071247.D

Acq: 10 Dec 2021 13:08

Tgt Ion:	65	Resp:	16116
Ion	Ratio	Lower	Upper
65	100		
67	52.5	0.0	112.2

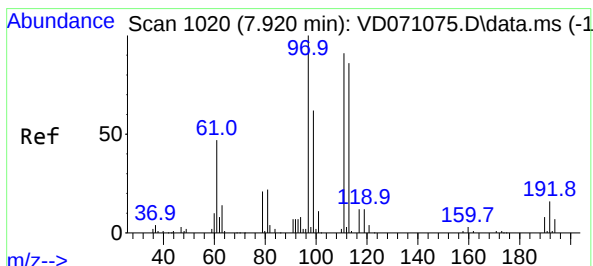
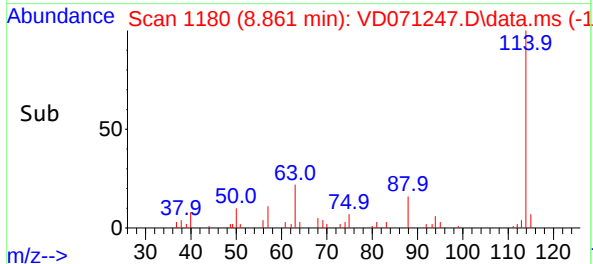
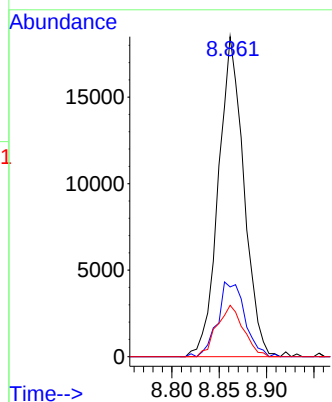
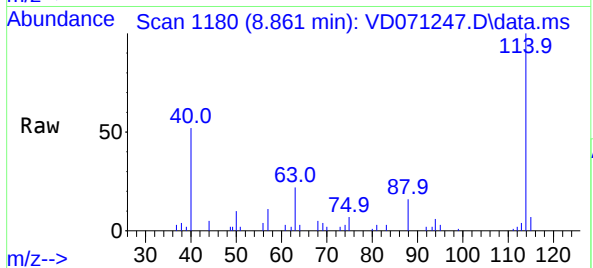




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.861 min Scan# 1180
Delta R.T. 0.000 min
Lab File: VD071247.D
Acq: 10 Dec 2021 13:08

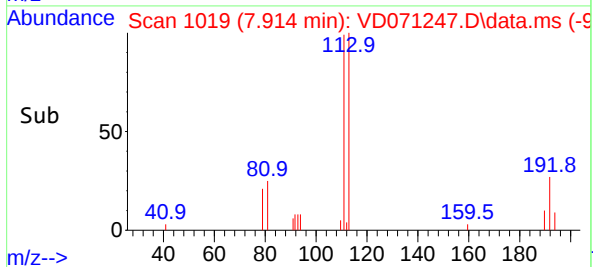
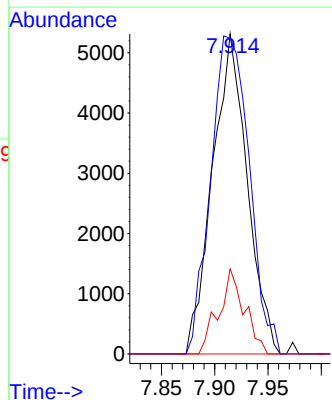
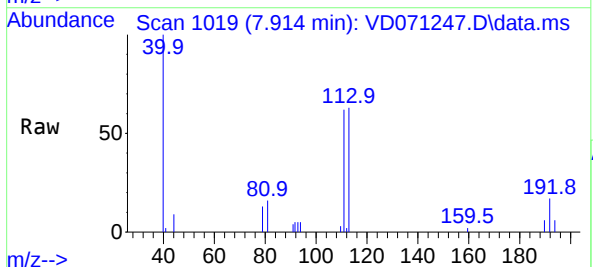
Instrument :
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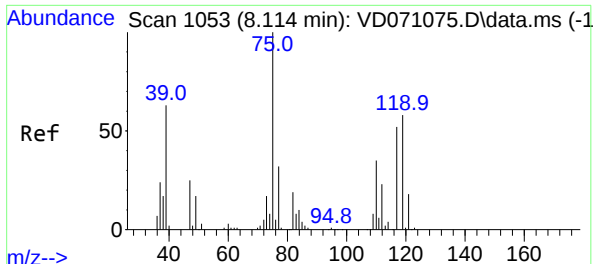
Tgt Ion:114	Resp:	34514
Ion Ratio	Lower	Upper
114	100	
63	21.8	0.0 41.8
88	16.1	0.0 32.8



#35
Dibromofluoromethane
Concen: 54.864 ug/l
RT: 7.914 min Scan# 1019
Delta R.T. -0.006 min
Lab File: VD071247.D
Acq: 10 Dec 2021 13:08

Tgt Ion:113	Resp:	12058
Ion Ratio	Lower	Upper
113	100	
111	110.2	82.0 123.0
192	19.6	15.2 22.8





#36

1,1-Dichloropropene

Concen: 7.028 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.141 min

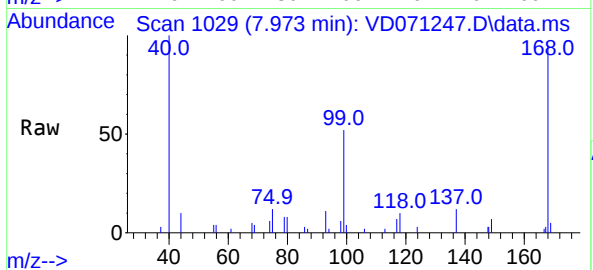
Lab File: VD071247.D

Acq: 10 Dec 2021 13:08

Instrument :

MSVOA_D

ClientSampleId :



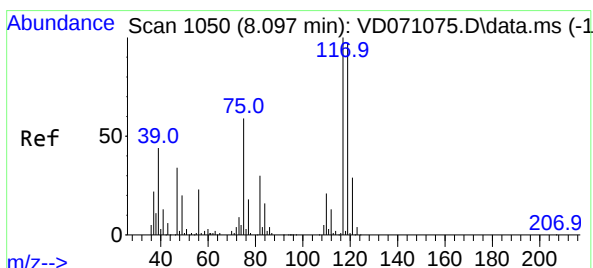
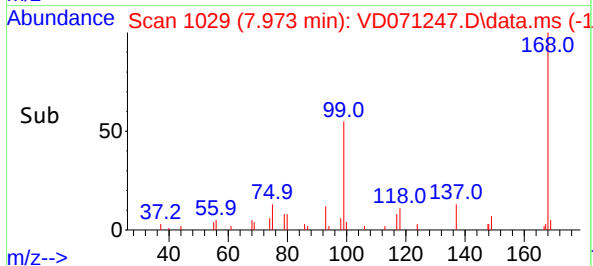
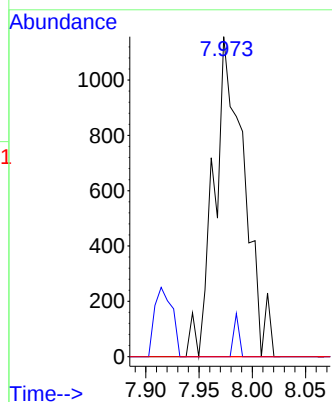
Tgt Ion: 75 Resp: 2267

Ion Ratio Lower Upper

75 100

110 2.4 17.8 53.4#

77 0.0 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 8.287 ug/l

RT: 7.979 min Scan# 1030

Delta R.T. -0.118 min

Lab File: VD071247.D

Acq: 10 Dec 2021 13:08

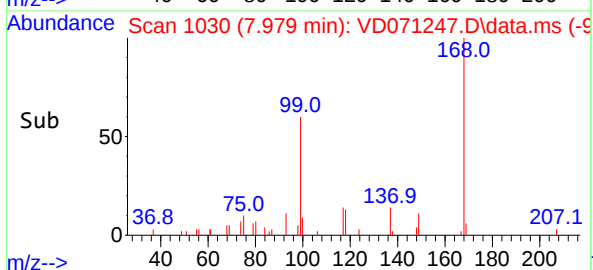
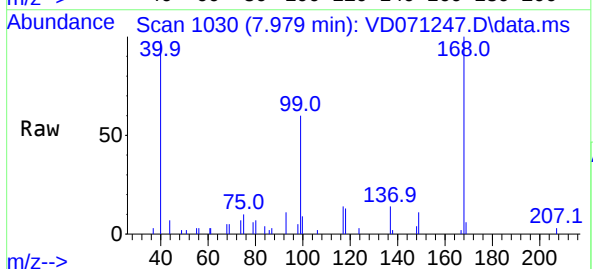
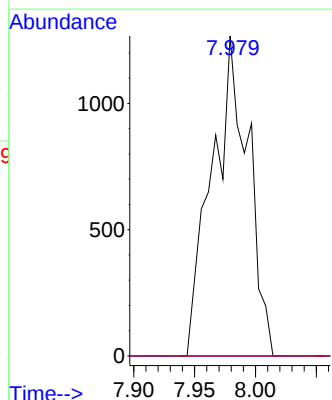
Tgt Ion: 117 Resp: 2635

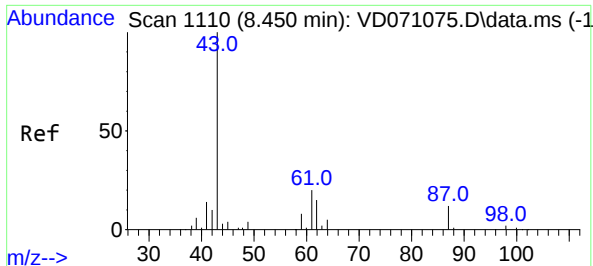
Ion Ratio Lower Upper

117 100

119 0.0 75.8 113.6#

121 0.0 23.6 35.4#

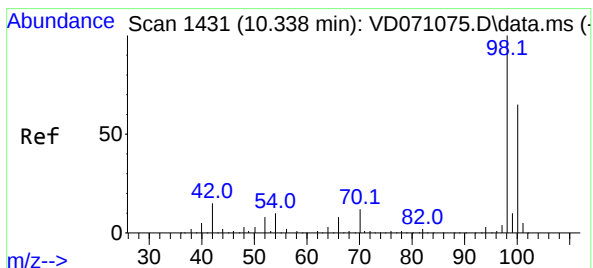
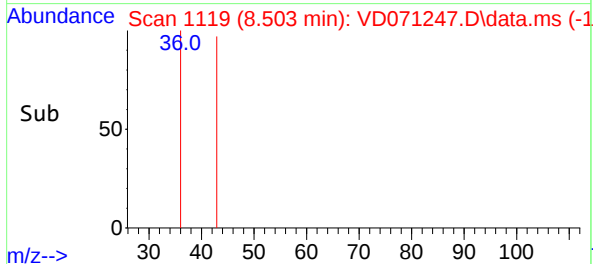
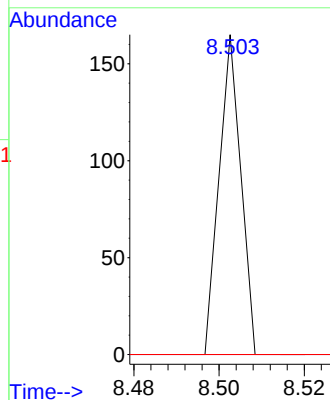
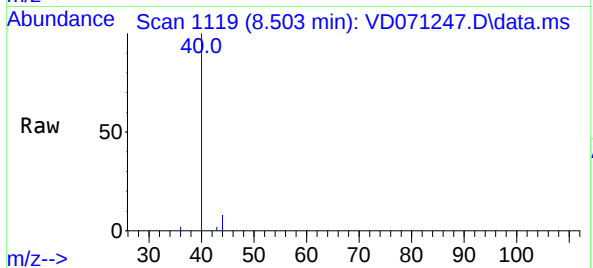




#43
Isopropyl Acetate
Concen: 5.392 ug/l
RT: 8.503 min Scan# 1110
Delta R.T. 0.053 min
Lab File: VD071247.D
Acq: 10 Dec 2021 13:08

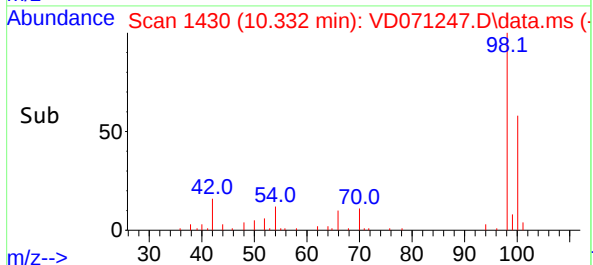
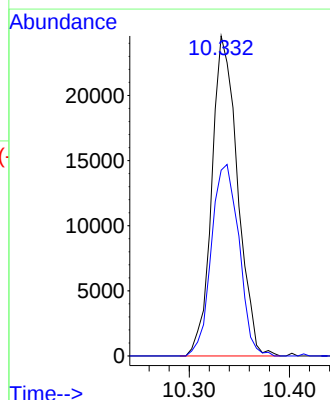
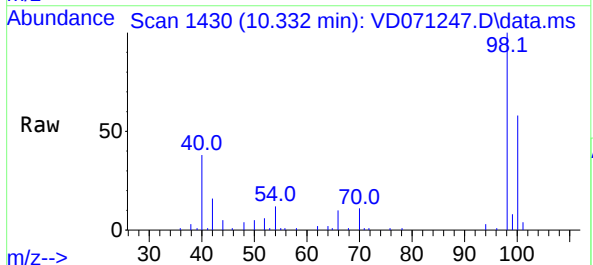
Instrument :
MSVOA_D
ClientSampleId :

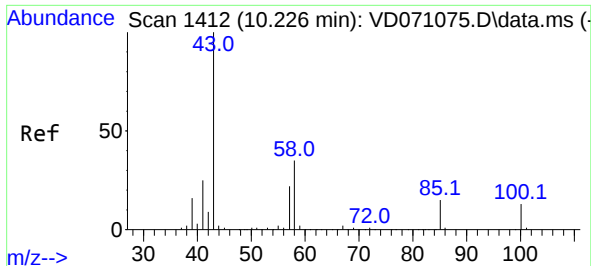
Tgt Ion: 43 Resp: 58
Ion Ratio Lower Upper
43 100
61 0.0 28.2 42.4#
87 0.0 10.7 16.1#



#50
Toluene-d8
Concen: 52.603 ug/l
RT: 10.332 min Scan# 1430
Delta R.T. -0.006 min
Lab File: VD071247.D
Acq: 10 Dec 2021 13:08

Tgt Ion: 98 Resp: 43996
Ion Ratio Lower Upper
98 100
100 64.0 51.8 77.6

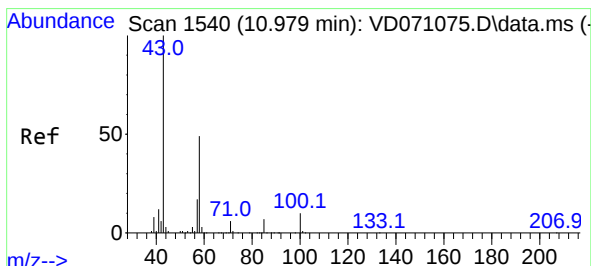
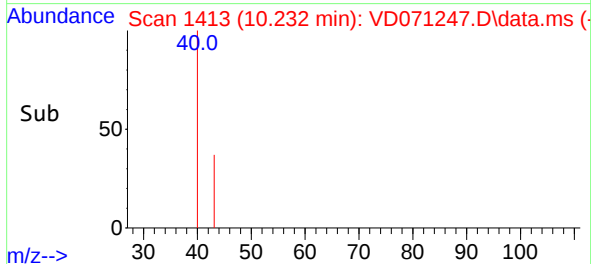
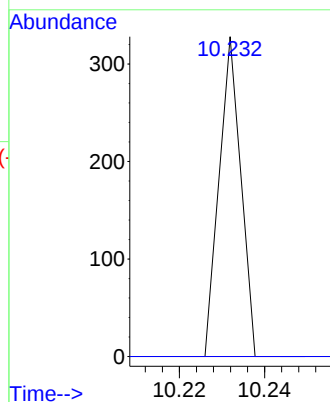
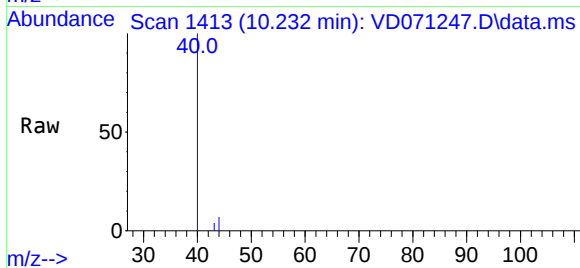




#51
4-Methyl-2-Pentanone
Concen: 31.300 ug/l
RT: 10.232 min Scan# 1412
Delta R.T. 0.006 min
Lab File: VD071247.D
Acq: 10 Dec 2021 13:08

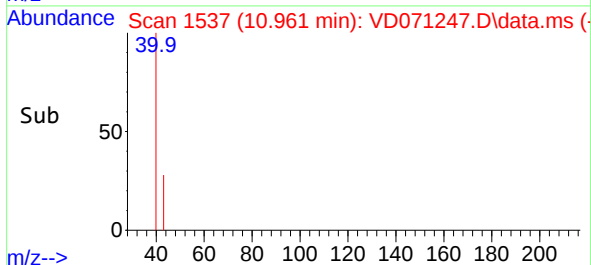
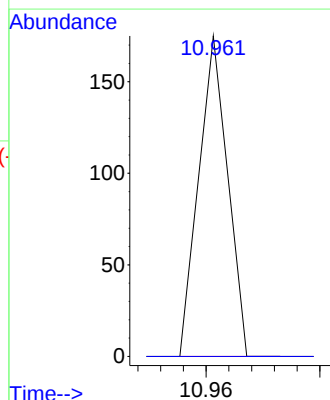
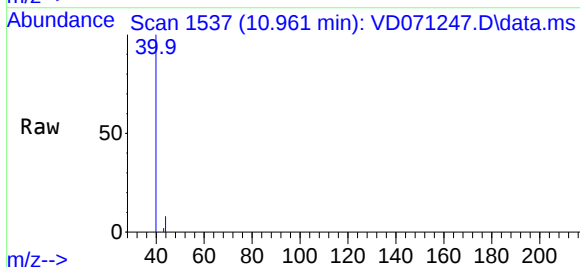
Instrument :
MSVOA_D
ClientSampleId :

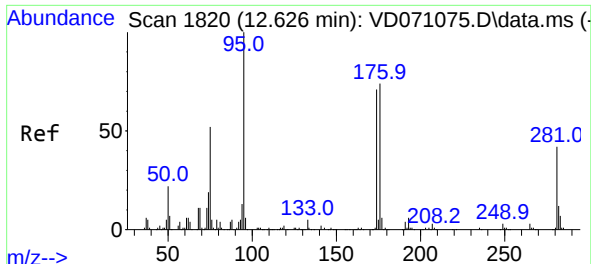
Tgt Ion: 43 Resp: 116
Ion Ratio Lower Upper
43 100
58 0.0 33.1 49.7#



#59
2-Hexanone
Concen: 35.025 ug/l
RT: 10.961 min Scan# 1537
Delta R.T. -0.018 min
Lab File: VD071247.D
Acq: 10 Dec 2021 13:08

Tgt Ion: 43 Resp: 62
Ion Ratio Lower Upper
43 100
58 0.0 28.7 86.1#

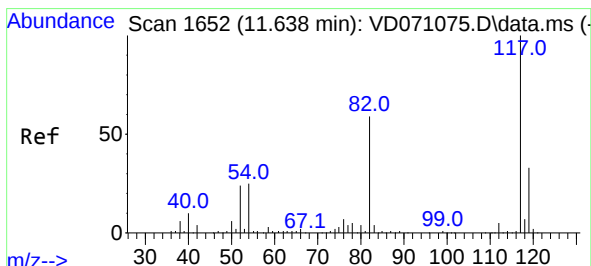
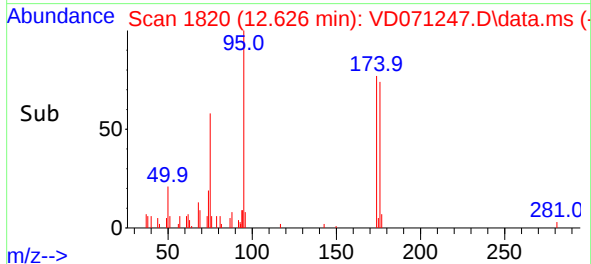
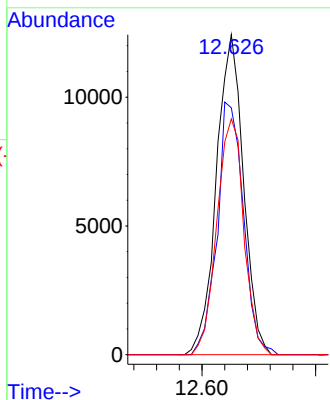
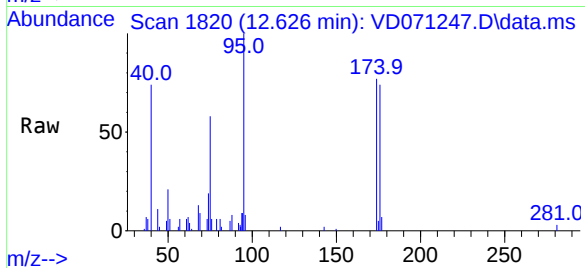




#62
4-Bromofluorobenzene
Concen: 70.916 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VD071247.D
Acq: 10 Dec 2021 13:08

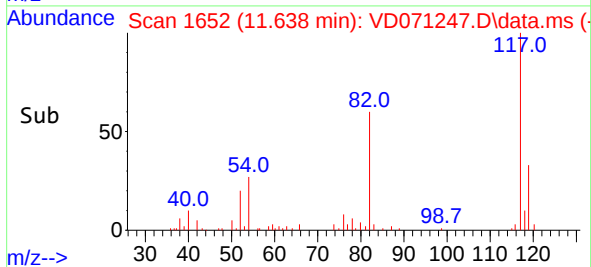
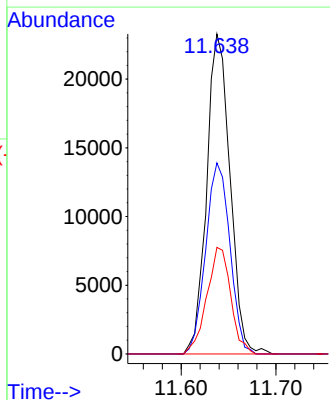
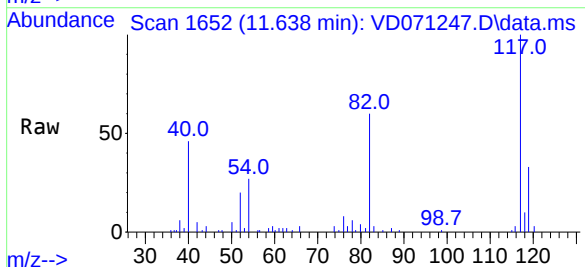
Instrument :
MSVOA_D
ClientSampleId :

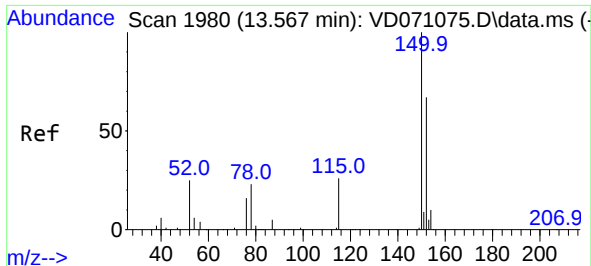
Tgt Ion: 95 Resp: 20560
Ion Ratio Lower Upper
95 100
174 76.6 0.0 159.4
176 73.4 0.0 154.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. -0.000 min
Lab File: VD071247.D
Acq: 10 Dec 2021 13:08

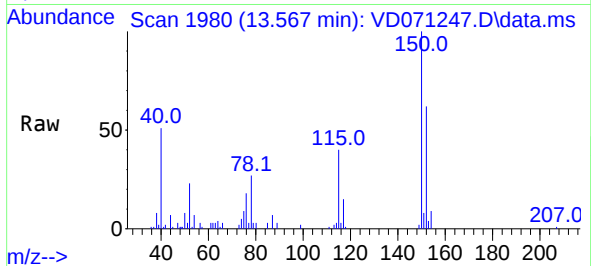
Tgt Ion: 117 Resp: 40005
Ion Ratio Lower Upper
117 100
82 59.7 44.7 67.1
119 33.3 26.2 39.4



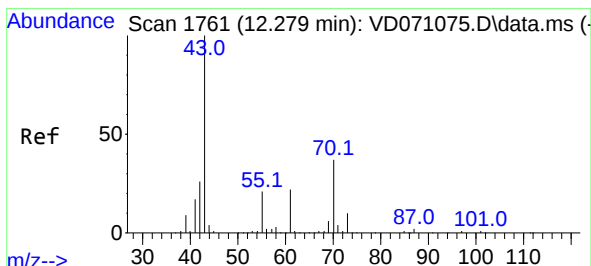
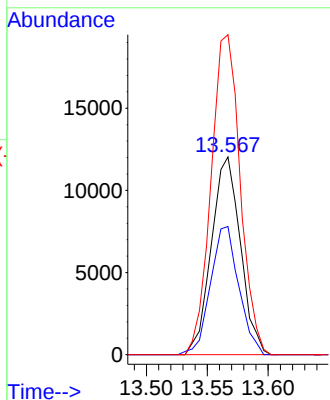
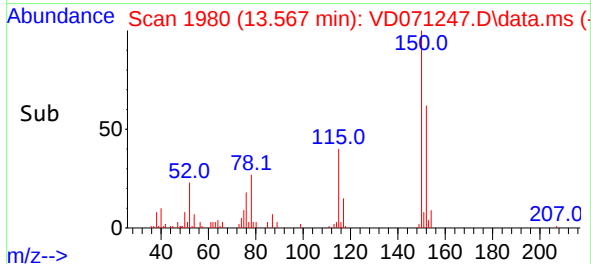


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.567 min Scan# 1980
Delta R.T. 0.000 min
Lab File: VD071247.D
Acq: 10 Dec 2021 13:08

Instrument :
MSVOA_D
ClientSampleId :

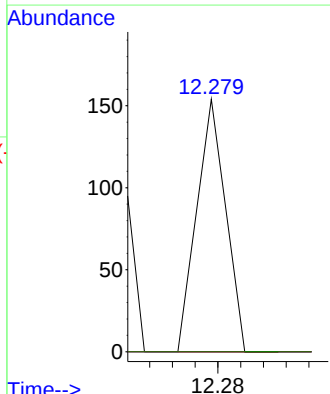
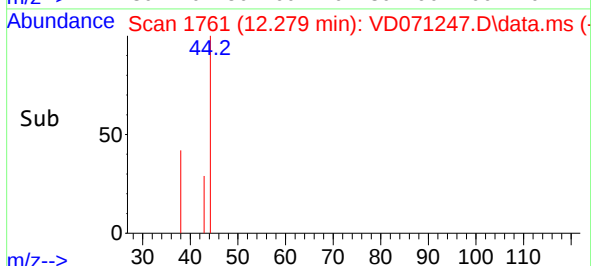
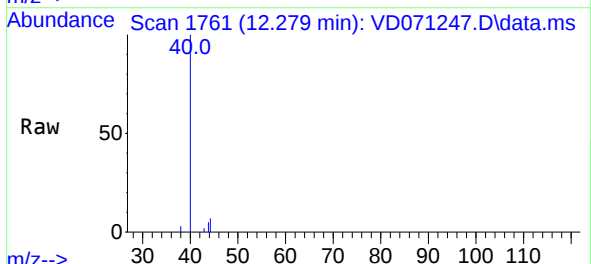


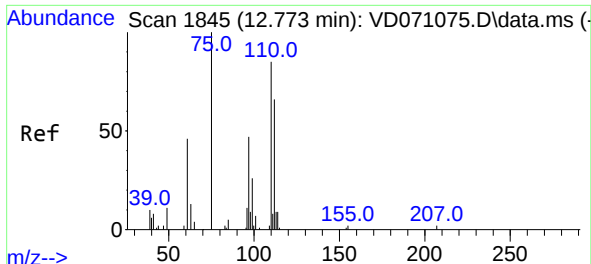
Tgt Ion:152 Resp: 20015
Ion Ratio Lower Upper
152 100
115 63.2 29.8 89.3
150 162.2 0.0 349.2



#74
N-ethyl acetate
Concen: 5.822 ug/l
RT: 12.279 min Scan# 1761
Delta R.T. -0.000 min
Lab File: VD071247.D
Acq: 10 Dec 2021 13:08

Tgt Ion: 43 Resp: 54
Ion Ratio Lower Upper
43 100
70 0.0 36.6 55.0#
55 0.0 22.5 33.7#
61 0.0 20.5 30.7#

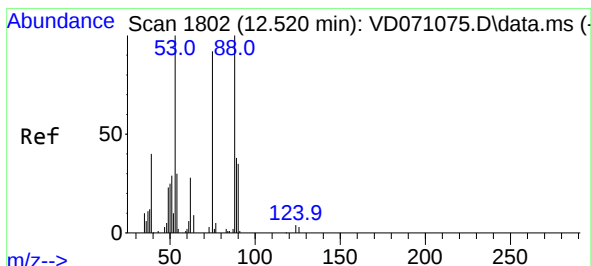
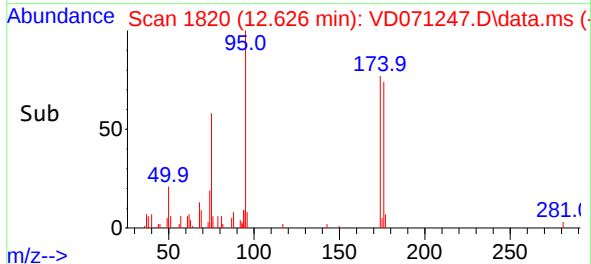
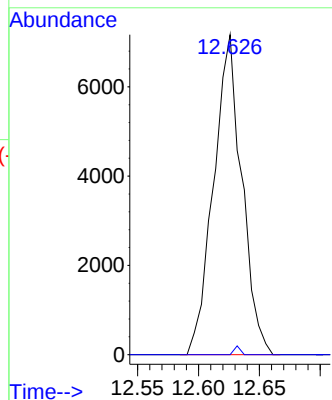
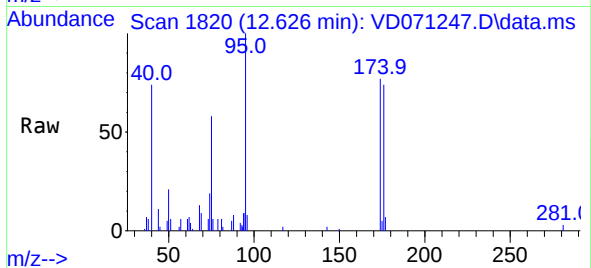




#76
1,2,3-Trichloropropane
Concen: 60.684 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.147 min
Lab File: VD071247.D
Acq: 10 Dec 2021 13:08

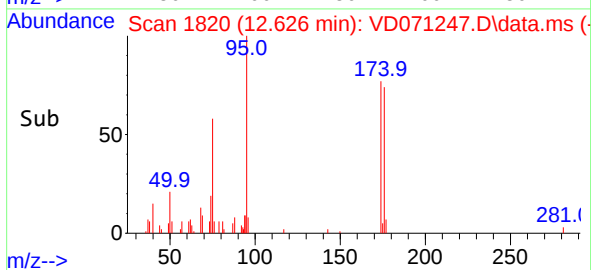
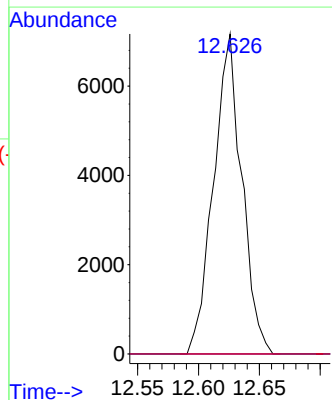
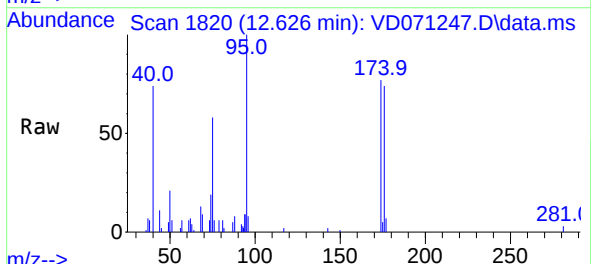
Instrument :
MSVOA_D
ClientSampleId :

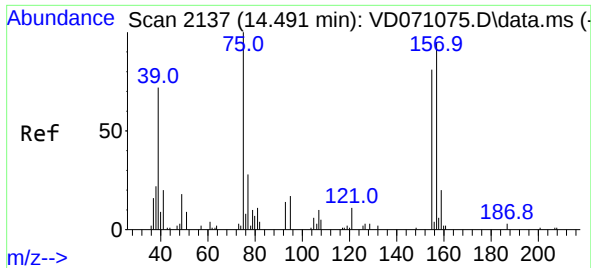
Tgt Ion: 75 Resp: 11572
Ion Ratio Lower Upper
75 100
77 0.6 158.4 475.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 131.319 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. 0.106 min
Lab File: VD071247.D
Acq: 10 Dec 2021 13:08

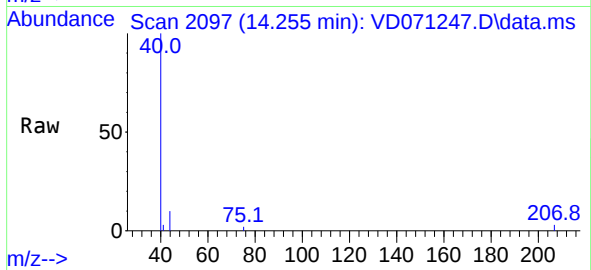
Tgt Ion: 75 Resp: 11572
Ion Ratio Lower Upper
75 100
53 0.0 62.6 94.0#
89 0.0 34.5 51.7#





#92
1,2-Dibromo-3-Chloropropane
Concen: 1.647 ug/l
RT: 14.255 min Scan# 20
Delta R.T. -0.236 min
Lab File: VD071247.D
Acq: 10 Dec 2021 13:08

Instrument :
MSVOA_D
ClientSampleId :



Tgt Ion: 75 Resp: 64
Ion Ratio Lower Upper
75 100
155 0.0 40.0 120.0#
157 0.0 49.8 149.3#

