

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD092921\
 Data File : VD070524.D
 Acq On : 29 Sep 2021 15:47
 Operator : VA/SY
 Sample : M3975-02
 Misc : 6.89G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 S-837-R-SO-4-4.5-092821

Quant Time: Sep 30 00:45:58 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D090821S.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 09 03:07:09 2021
 Response via : Initial Calibration

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

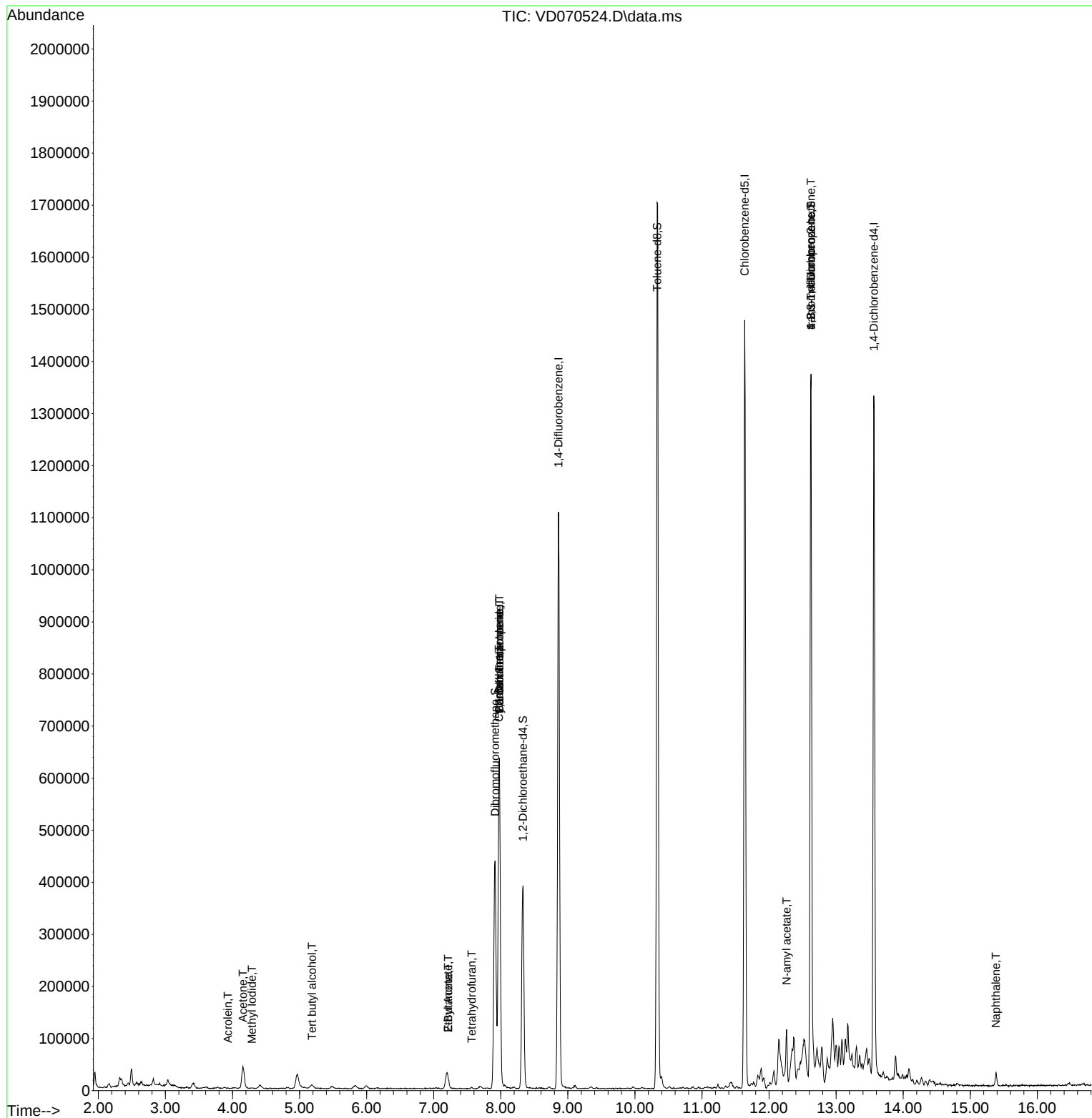
Internal Standards						
1) Pentafluorobenzene	7.979	168	456464	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	953219	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	876208	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	358604	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.332	65	317364	54.148	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 108.300%			
35) Dibromofluoromethane	7.914	113	334310	49.271	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 98.540%			
50) Toluene-d8	10.332	98	1214350	49.293	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 98.580%			
62) 4-Bromofluorobenzene	12.626	95	419691	48.746	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 97.500%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.985	85	153	Below Cal	#	43
3) Chloromethane	2.209	50	719	Below Cal		99
5) Bromomethane	2.773	94	410	Below Cal		95
6) Chloroethane	2.932	64	58	Below Cal	#	43
10) Methyl Iodide	4.291	142	110	1.048	ug/l #	39
11) Tert butyl alcohol	5.185	59	5089	7.679	ug/l #	100
13) Acrolein	3.932	56	380	1.304	ug/l #	66
16) Acetone	4.156	43	70721	67.584	ug/l	97
18) Methyl Acetate	4.726	43	1639	Below Cal	#	62
20) Methylene Chloride	4.973	84	21478	Below Cal	#	84
25) 2-Butanone	7.214	43	18532	13.304	ug/l	95
29) Tetrahydrofuran	7.567	42	1022	1.143	ug/l #	74
31) Cyclohexane	7.973	56	10491	1.039	ug/l #	1
36) 1,1-Dichloropropene	7.979	75	39355	3.863	ug/l #	48
37) Ethyl Acetate	7.214	43	18532	4.864	ug/l #	80
38) Carbon Tetrachloride	7.979	117	48644	4.827	ug/l #	17
74) N-amyl acetate	12.261	43	18091	3.302	ug/l #	62
76) 1,2,3-Trichloropropane	12.626	75	202818	55.914	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.626	75	202818	140.097	ug/l #	18
95) Naphthalene	15.385	128	20592	1.969	ug/l	98

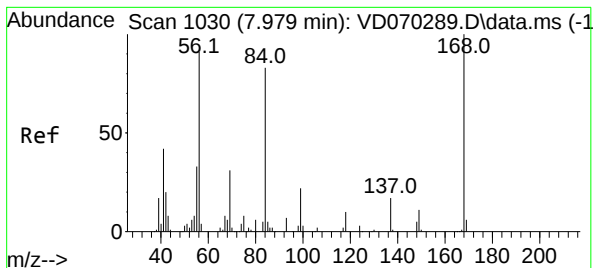
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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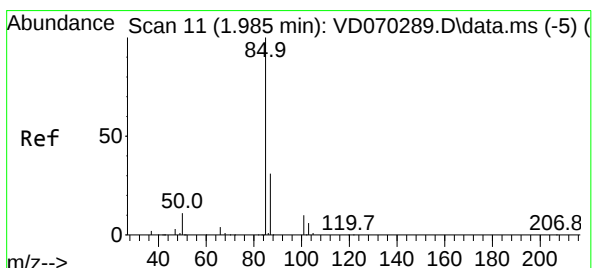
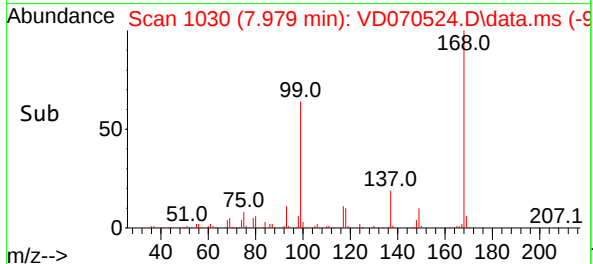
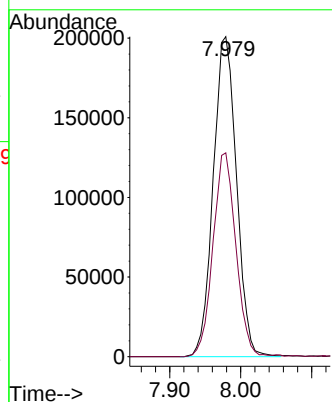
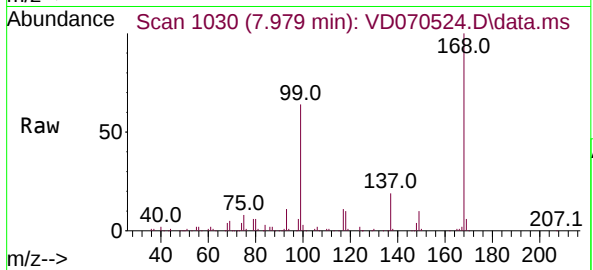




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. 0.000 min
Lab File: VD070524.D
Acq: 29 Sep 2021 15:47

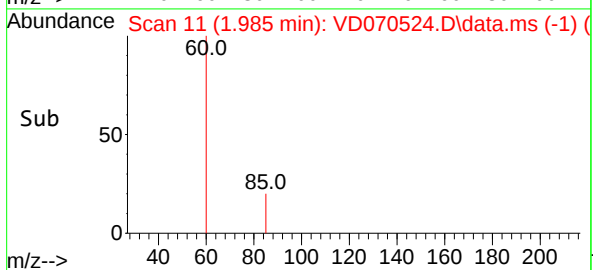
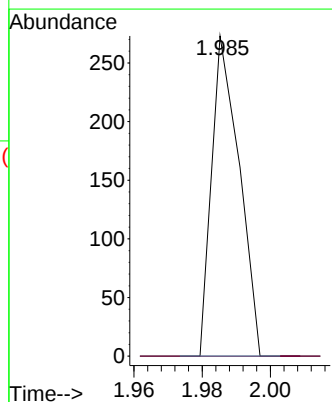
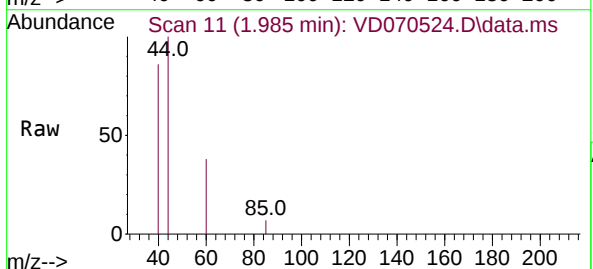
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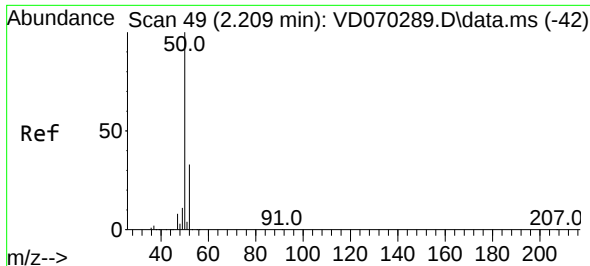
Tgt Ion:168 Resp: 456464
Ion Ratio Lower Upper
168 100
99 63.7 50.8 76.2



#2
Dichlorodifluoromethane
Concen: Below Cal
RT: 1.985 min Scan# 11
Delta R.T. 0.000 min
Lab File: VD070524.D
Acq: 29 Sep 2021 15:47

Tgt Ion: 85 Resp: 153
Ion Ratio Lower Upper
85 100
87 0.0 15.6 46.8#

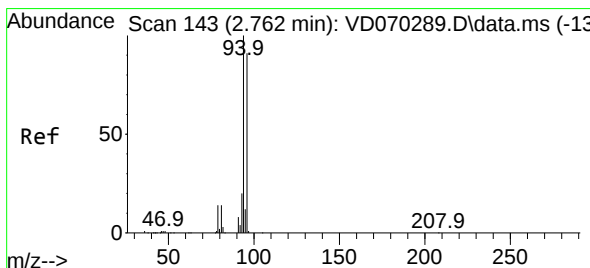
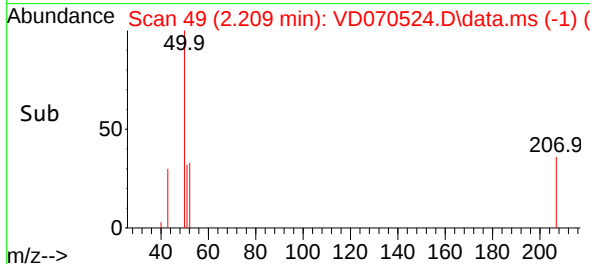
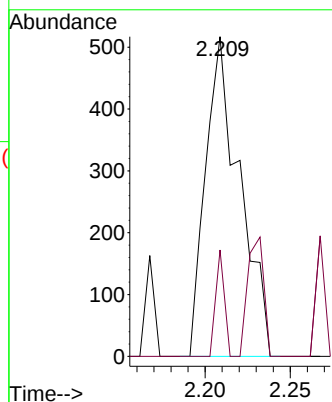
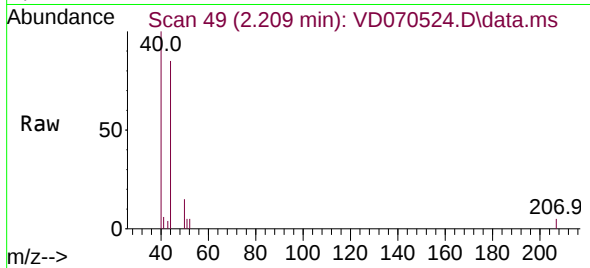




#3
Chloromethane
Concen: Below Cal
RT: 2.209 min Scan# 49
Delta R.T. -0.000 min
Lab File: VD070524.D
Acq: 29 Sep 2021 15:47

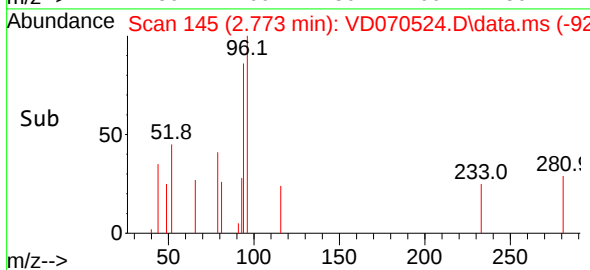
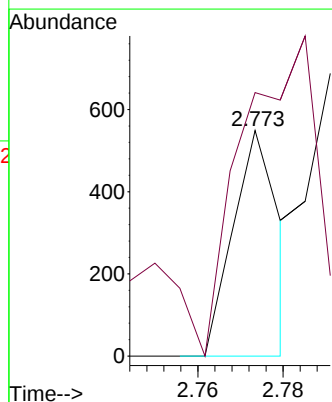
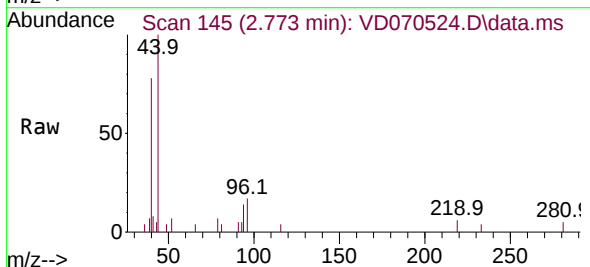
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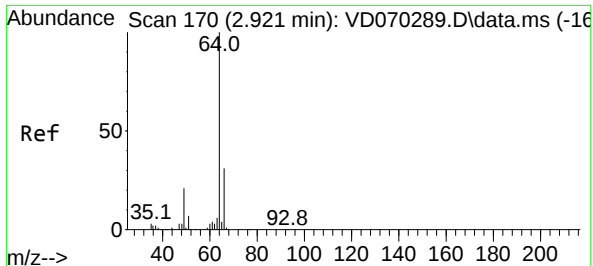
Tgt Ion: 50 Resp: 719
Ion Ratio Lower Upper
50 100
52 33.3 26.2 39.2



#5
Bromomethane
Concen: Below Cal
RT: 2.773 min Scan# 145
Delta R.T. 0.011 min
Lab File: VD070524.D
Acq: 29 Sep 2021 15:47

Tgt Ion: 94 Resp: 410
Ion Ratio Lower Upper
94 100
96 86.7 73.0 109.6

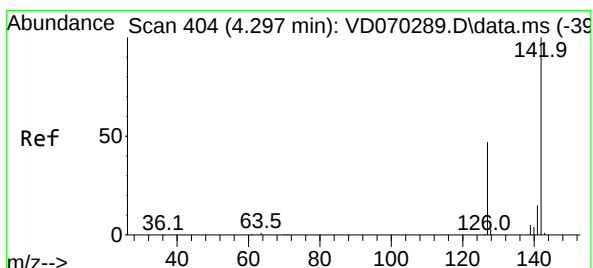
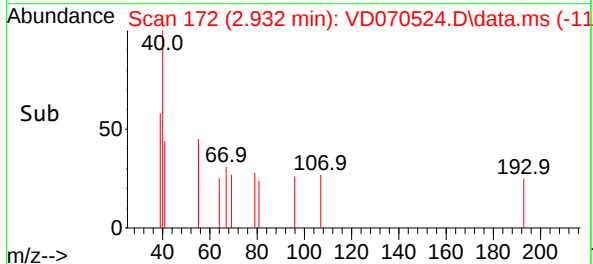
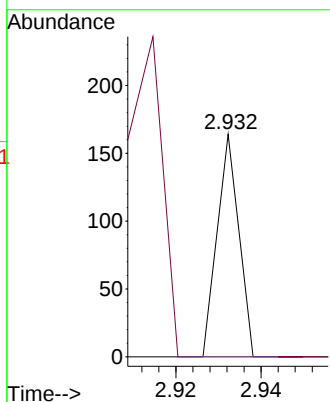
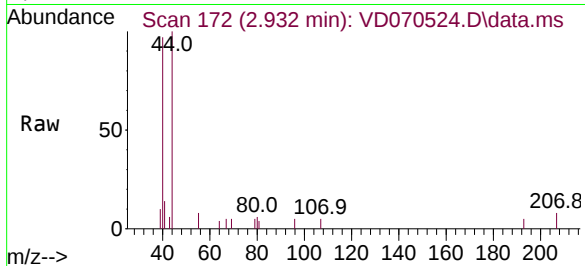




#6
Chloroethane
Concen: Below Cal
RT: 2.932 min Scan# 172
Delta R.T. 0.011 min
Lab File: VD070524.D
Acq: 29 Sep 2021 15:47

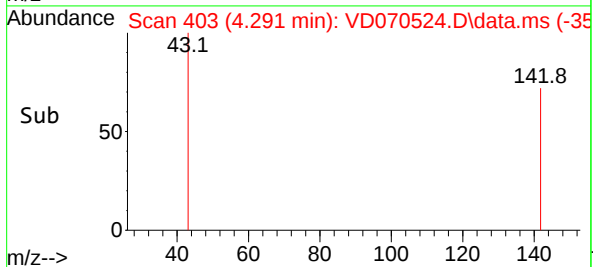
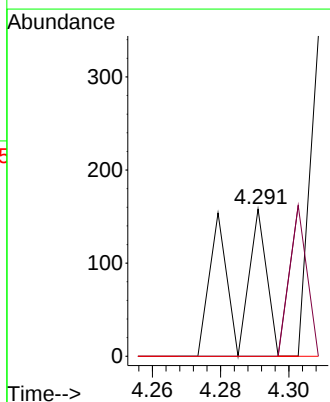
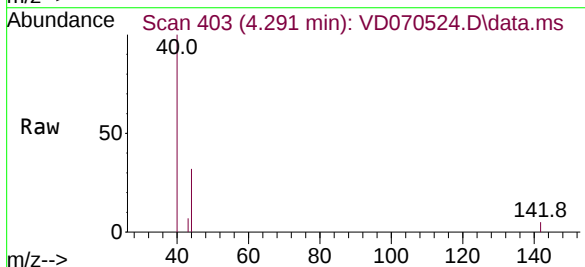
Instrument :
MSVOA_D
ClientSampleId :
S-837-R-SO-4-4.5-092821

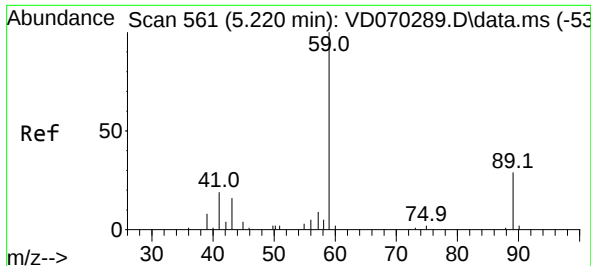
Tgt Ion: 64 Resp: 58
Ion Ratio Lower Upper
64 100
66 0.0 25.0 37.4#



#10
Methyl Iodide
Concen: 1.048 ug/l
RT: 4.291 min Scan# 403
Delta R.T. -0.006 min
Lab File: VD070524.D
Acq: 29 Sep 2021 15:47

Tgt Ion: 142 Resp: 110
Ion Ratio Lower Upper
142 100
127 0.0 36.9 55.3#
141 0.0 11.8 17.6#

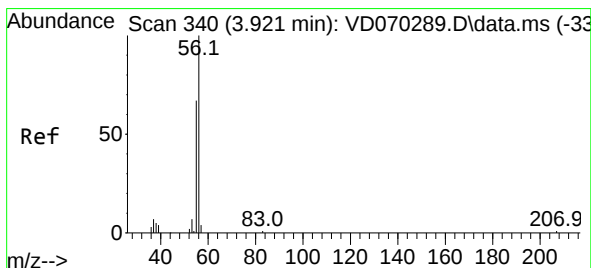
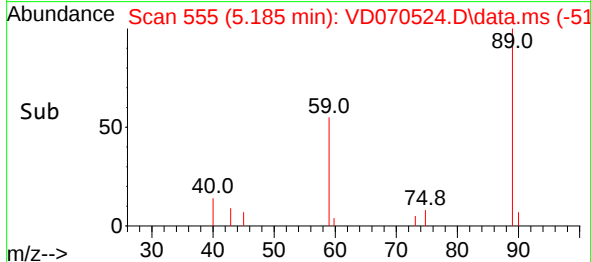
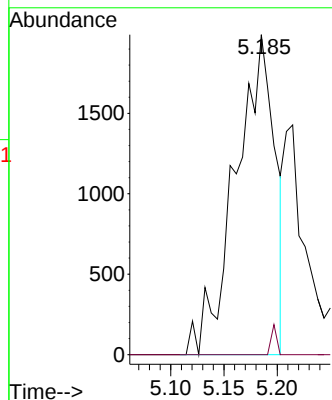
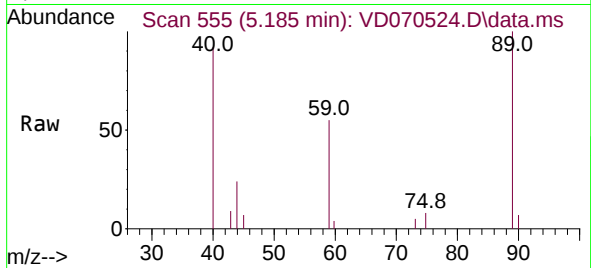




#11
Tert butyl alcohol
Concen: 7.679 ug/l
RT: 5.185 min Scan# 555
Delta R.T. -0.035 min
Lab File: VD070524.D
Acq: 29 Sep 2021 15:47

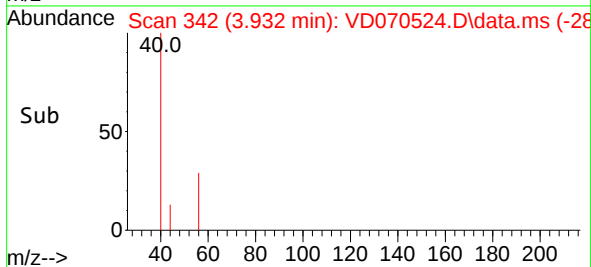
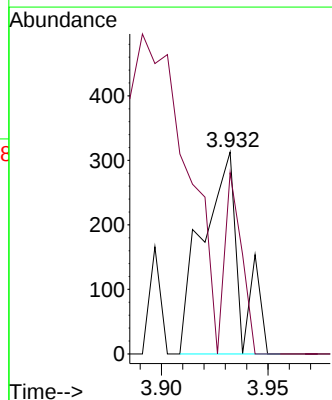
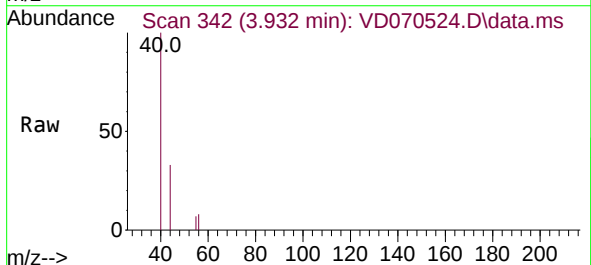
Instrument :
MSVOA_D
ClientSampleId :
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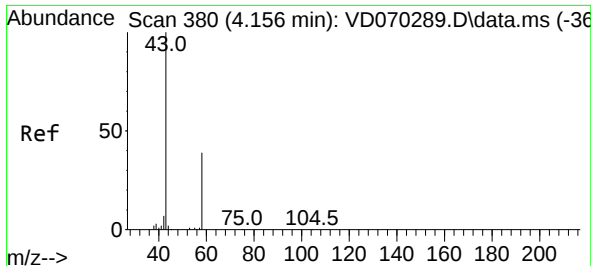
Tgt Ion: 59 Resp: 5089
Ion Ratio Lower Upper
59 100
57 1.3 0.0 0.0#



#13
Acrolein
Concen: 1.304 ug/l
RT: 3.932 min Scan# 342
Delta R.T. 0.012 min
Lab File: VD070524.D
Acq: 29 Sep 2021 15:47

Tgt Ion: 56 Resp: 380
Ion Ratio Lower Upper
56 100
55 40.5 54.2 81.2#

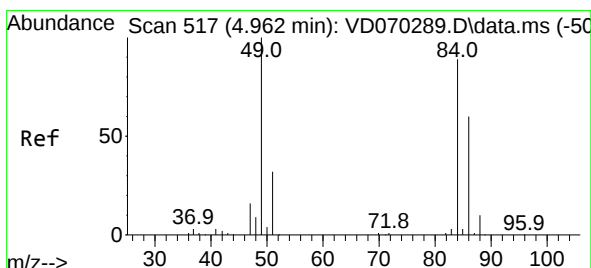
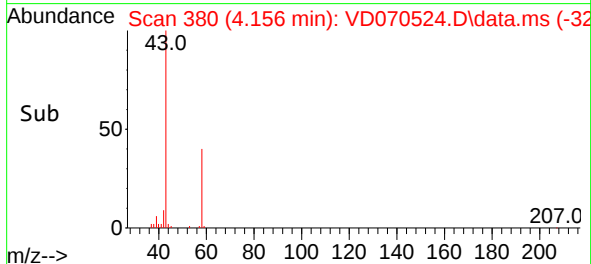
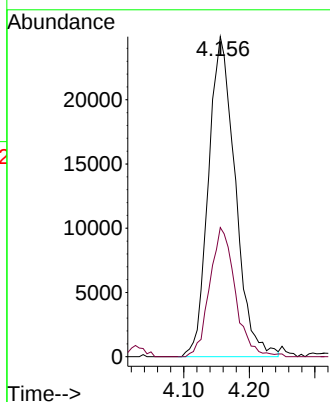
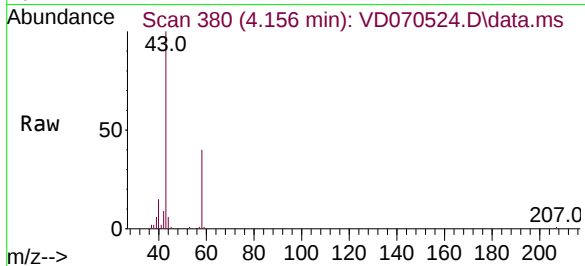




#16
Acetone
Concen: 67.584 ug/l
RT: 4.156 min Scan# 380
Delta R.T. -0.000 min
Lab File: VD070524.D
Acq: 29 Sep 2021 15:47

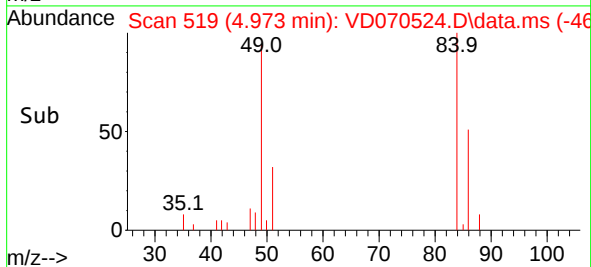
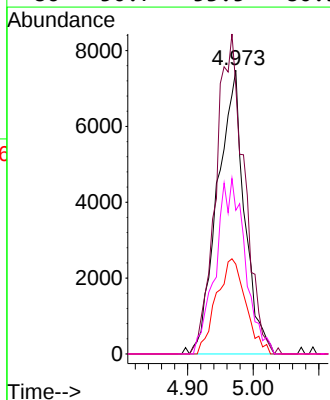
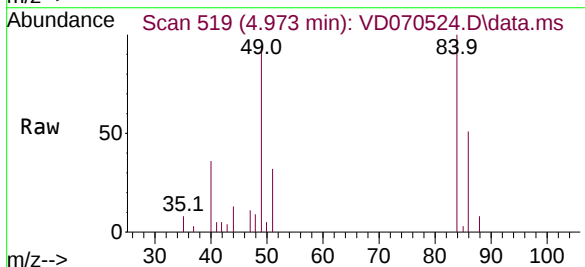
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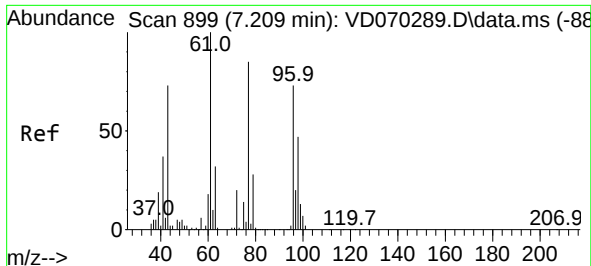
Tgt Ion: 43 Resp: 70721
Ion Ratio Lower Upper
43 100
58 40.3 30.9 46.3



#20
Methylene Chloride
Concen: Below Cal
RT: 4.973 min Scan# 519
Delta R.T. 0.011 min
Lab File: VD070524.D
Acq: 29 Sep 2021 15:47

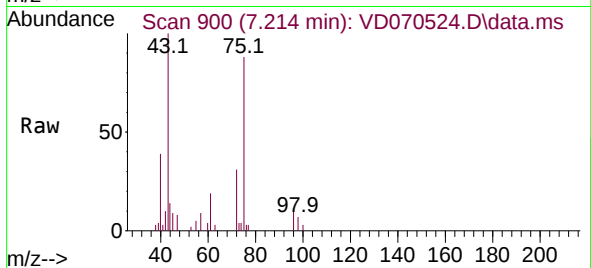
Tgt Ion: 84 Resp: 21478
Ion Ratio Lower Upper
84 100
49 94.4 89.6 134.4
51 31.6 28.6 43.0
86 50.7 53.5 80.3#



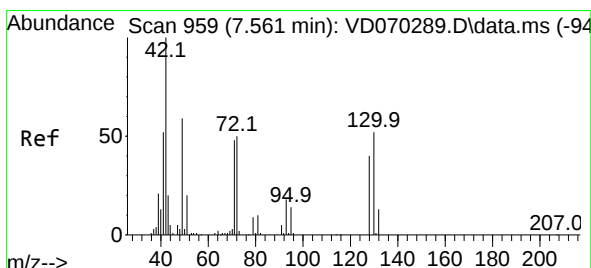
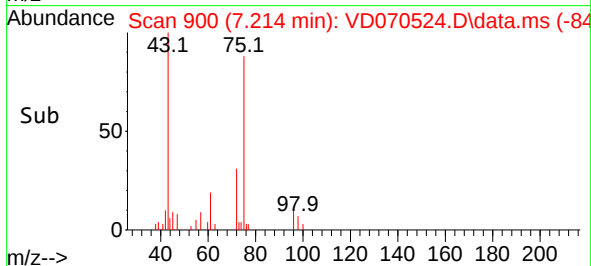
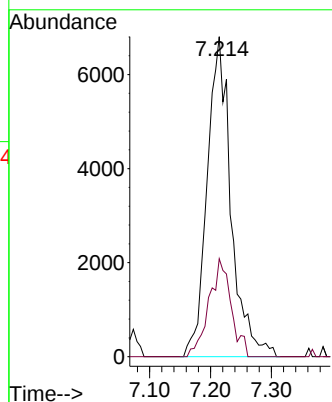


#25
2-Butanone
Concen: 13.304 ug/l
RT: 7.214 min Scan# 900
Delta R.T. 0.006 min
Lab File: VD070524.D
Acq: 29 Sep 2021 15:47

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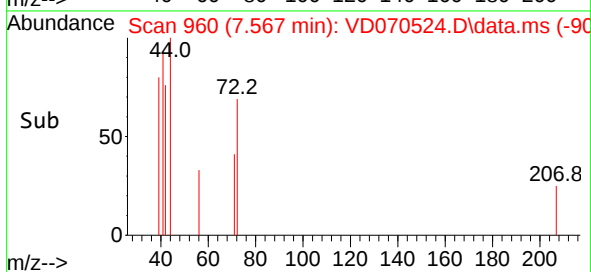
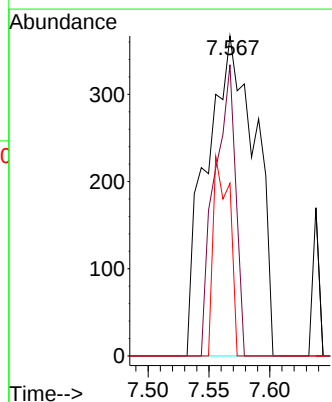
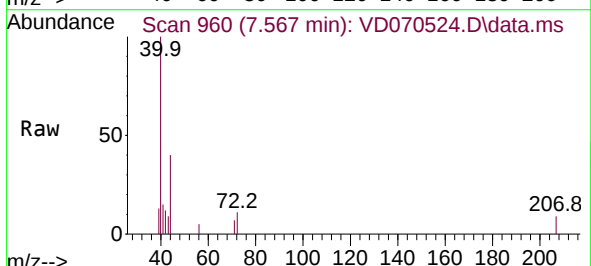


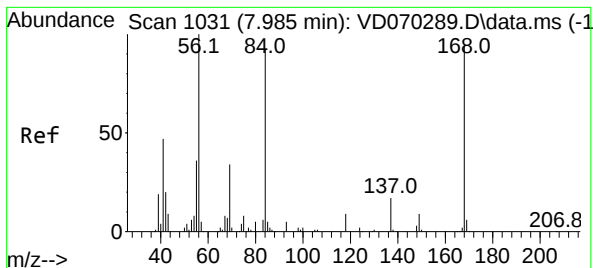
Tgt Ion: 43 Resp: 18532
Ion Ratio Lower Upper
43 100
72 30.6 22.2 33.4



#29
Tetrahydrofuran
Concen: 1.143 ug/l
RT: 7.567 min Scan# 960
Delta R.T. 0.006 min
Lab File: VD070524.D
Acq: 29 Sep 2021 15:47

Tgt Ion: 42 Resp: 1022
Ion Ratio Lower Upper
42 100
72 39.1 38.8 58.2
71 20.9 37.8 56.6#





#31

Cyclohexane

Concen: 1.039 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.012 min

Lab File: VD070524.D

Acq: 29 Sep 2021 15:47

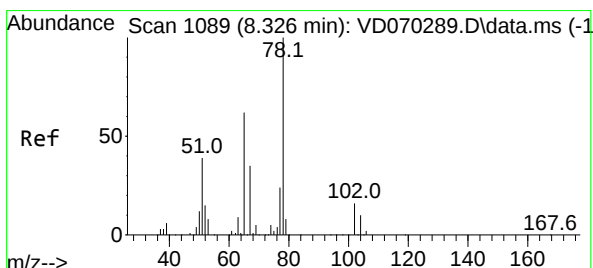
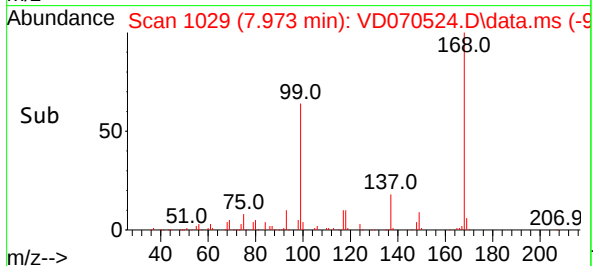
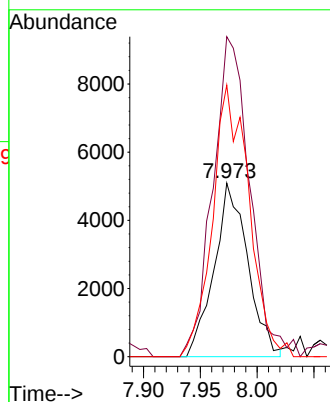
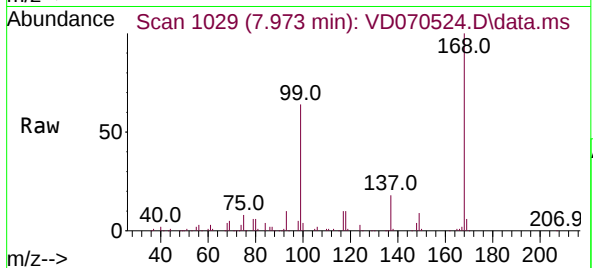
Instrument :

MSVOA_D

ClientSampleId :

S-837-R-SO-4-4.5-092821

Tgt Ion:	56	Resp:	10491
Ion	Ratio	Lower	Upper
56	100		
69	184.4	26.9	40.3#
84	156.5	73.6	110.4#



#33

1,2-Dichloroethane-d4

Concen: 54.148 ug/l

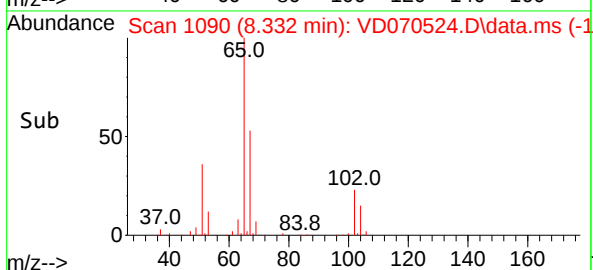
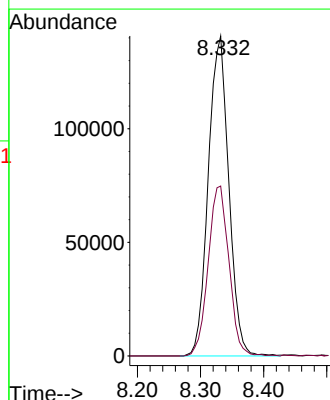
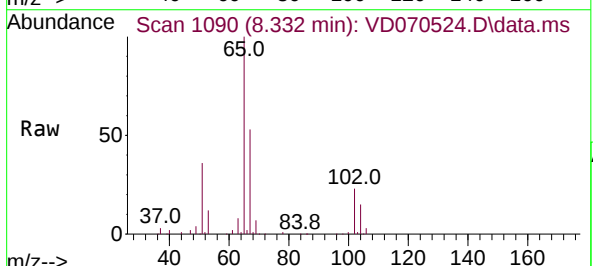
RT: 8.332 min Scan# 1090

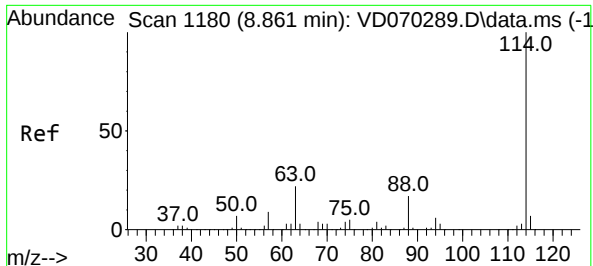
Delta R.T. 0.006 min

Lab File: VD070524.D

Acq: 29 Sep 2021 15:47

Tgt Ion:	65	Resp:	317364
Ion	Ratio	Lower	Upper
65	100		
67	53.9	0.0	111.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1180

Delta R.T. -0.000 min

Lab File: VD070524.D

Acq: 29 Sep 2021 15:47

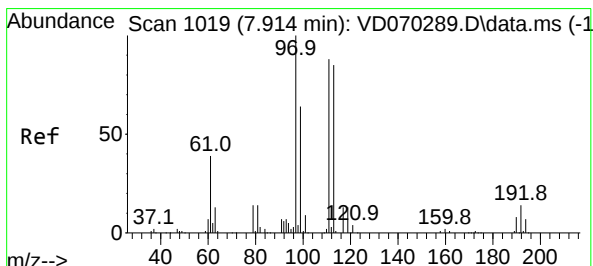
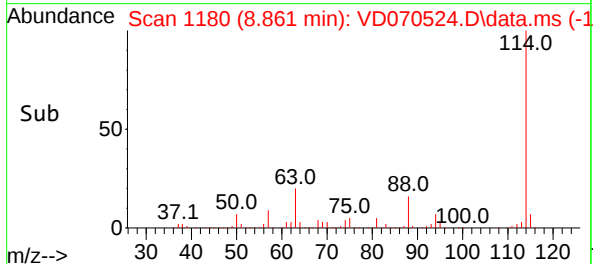
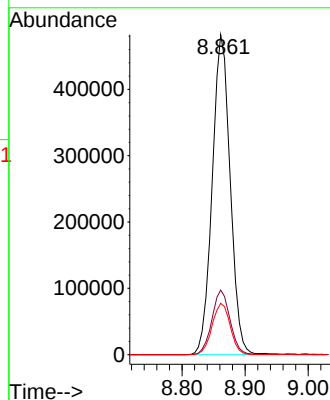
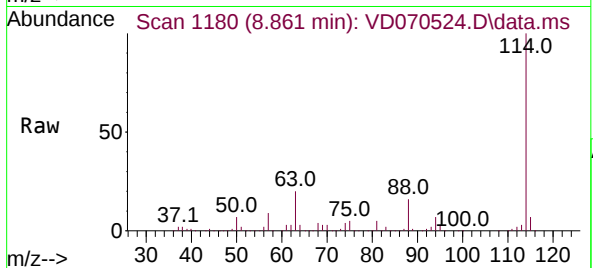
Tgt Ion:114 Resp: 953219

Ion Ratio Lower Upper

114 100

63 20.2 0.0 43.4

88 16.0 0.0 33.4



#35

Dibromofluoromethane

Concen: 49.271 ug/l

RT: 7.914 min Scan# 1019

Delta R.T. -0.000 min

Lab File: VD070524.D

Acq: 29 Sep 2021 15:47

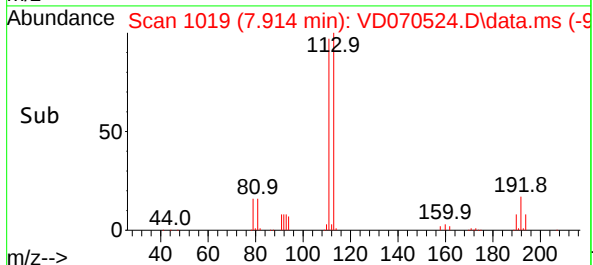
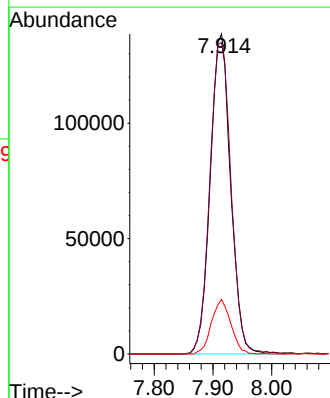
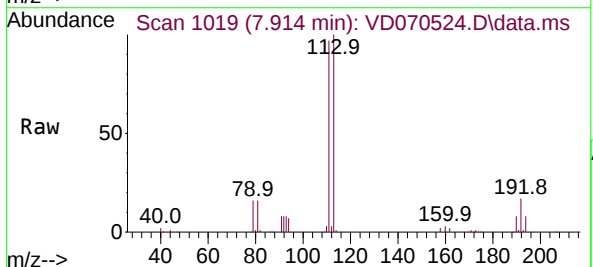
Tgt Ion:113 Resp: 334310

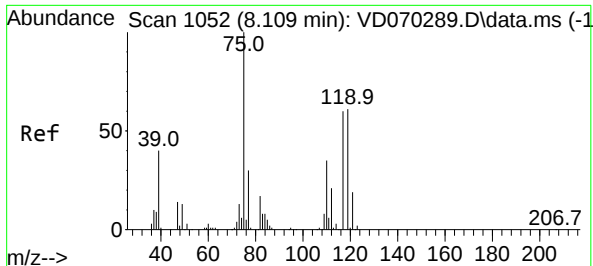
Ion Ratio Lower Upper

113 100

111 101.2 81.4 122.2

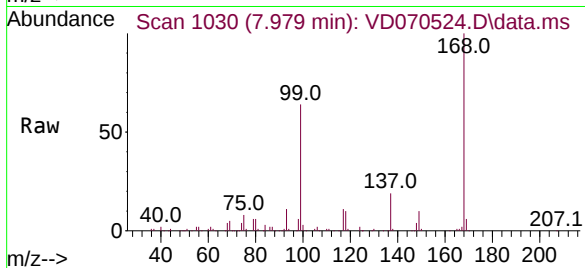
192 16.2 13.0 19.6



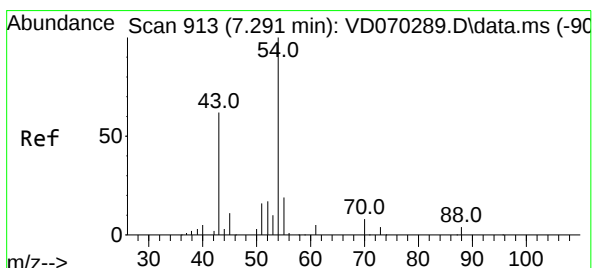
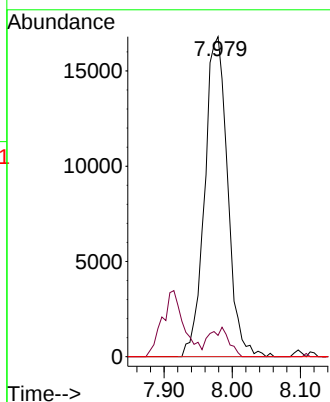
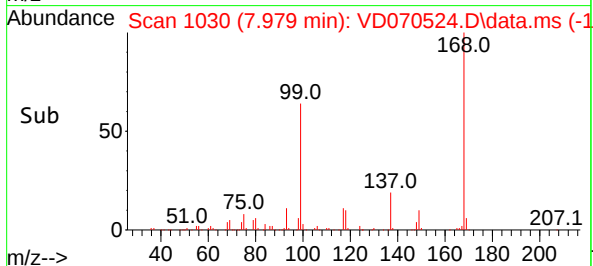


#36
1,1-Dichloropropene
Concen: 3.863 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.130 min
Lab File: VD070524.D
Acq: 29 Sep 2021 15:47

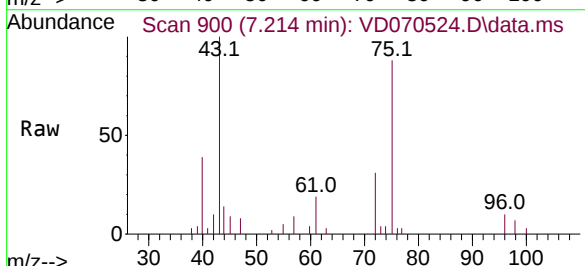
Instrument :
MSVOA_D
ClientSampleId :
S-837-R-SO-4-4.5-092821



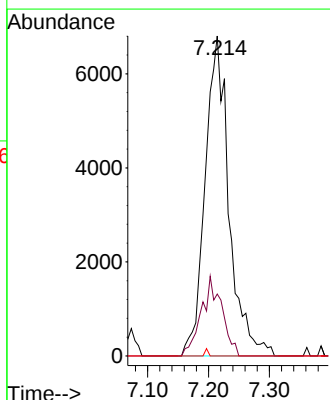
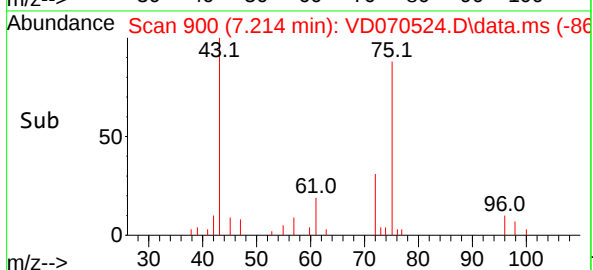
Tgt Ion: 75 Resp: 39355
Ion Ratio Lower Upper
75 100
110 7.8 17.9 53.7#
77 0.0 25.3 37.9#

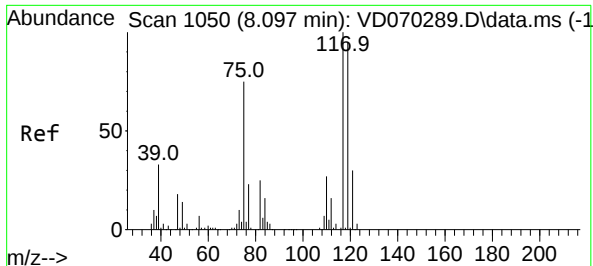


#37
Ethyl Acetate
Concen: 4.864 ug/l
RT: 7.214 min Scan# 900
Delta R.T. -0.077 min
Lab File: VD070524.D
Acq: 29 Sep 2021 15:47



Tgt Ion: 43 Resp: 18532
Ion Ratio Lower Upper
43 100
61 21.5 13.0 19.6#
70 0.3 9.8 14.6#

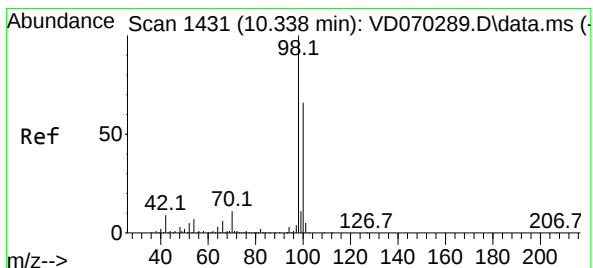
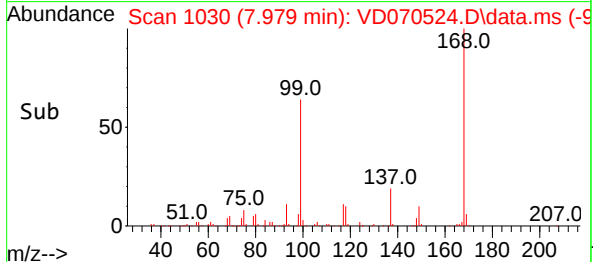
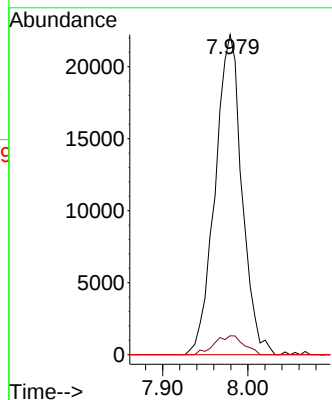
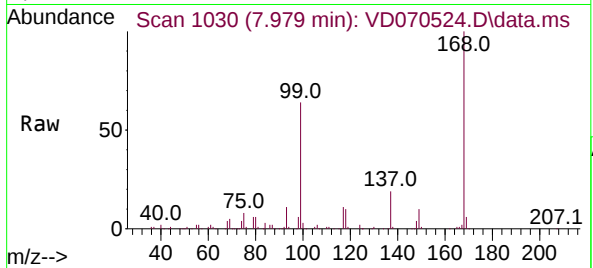




#38
Carbon Tetrachloride
Concen: 4.827 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.118 min
Lab File: VD070524.D
Acq: 29 Sep 2021 15:47

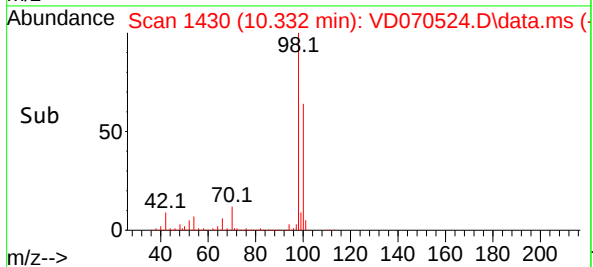
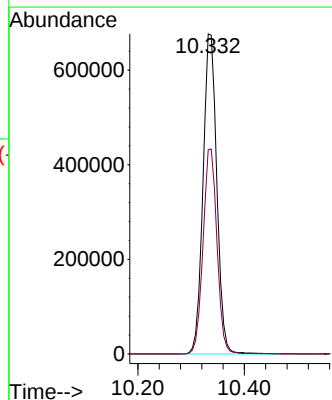
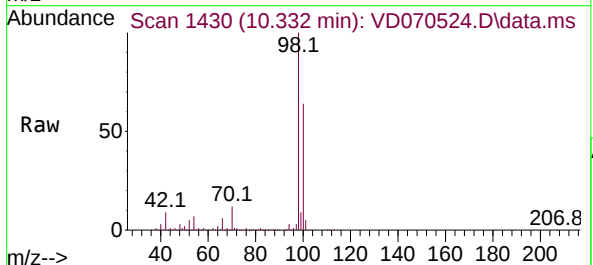
Instrument :
MSVOA_D
ClientSampleId :
S-837-R-SO-4-4.5-092821

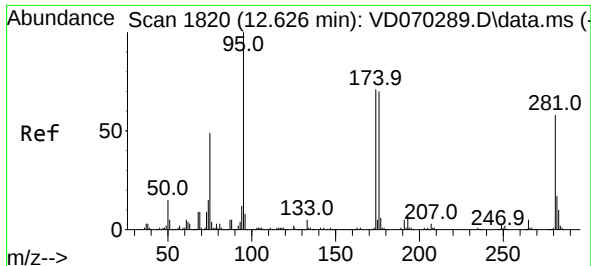
Tgt Ion:117 Resp: 48644
Ion Ratio Lower Upper
117 100
119 5.9 76.1 114.1#
121 0.0 23.8 35.6#



#50
Toluene-d8
Concen: 49.293 ug/l
RT: 10.332 min Scan# 1430
Delta R.T. -0.006 min
Lab File: VD070524.D
Acq: 29 Sep 2021 15:47

Tgt Ion: 98 Resp: 1214350
Ion Ratio Lower Upper
98 100
100 64.8 52.0 78.0

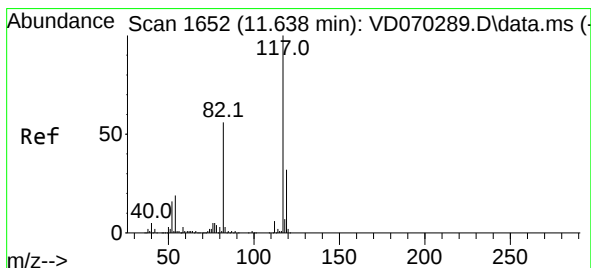
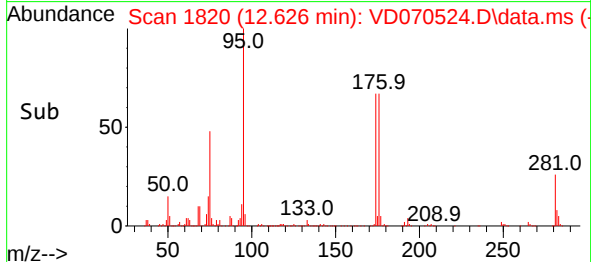
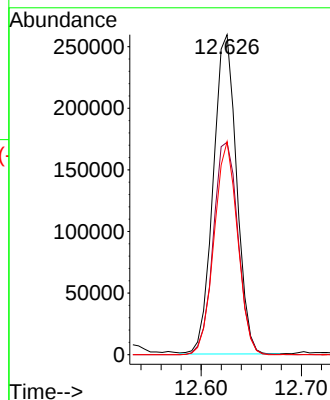
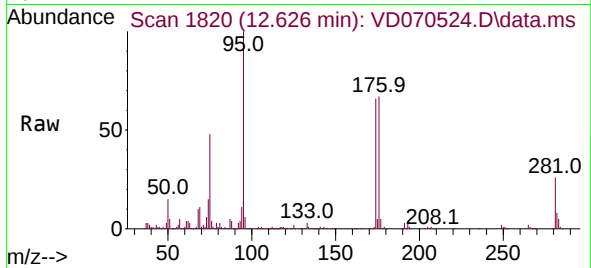




#62
4-Bromofluorobenzene
Concen: 48.746 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VD070524.D
Acq: 29 Sep 2021 15:47

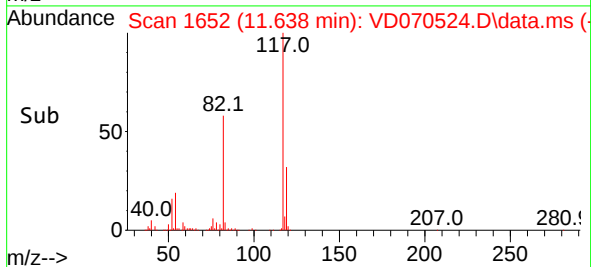
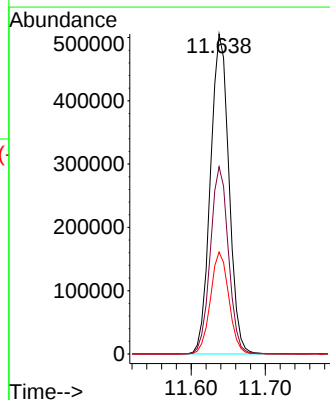
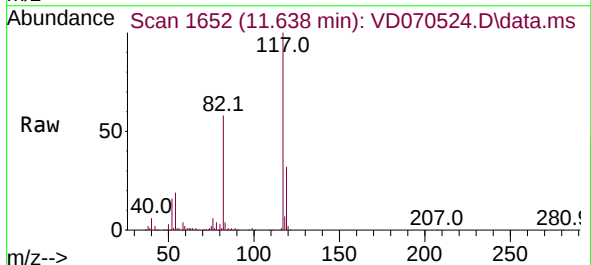
Instrument :
MSVOA_D
ClientSampleId :
S-837-R-SO-4-4.5-092821

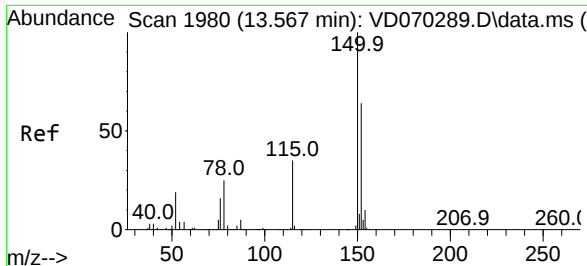
Tgt Ion: 95 Resp: 419691
Ion Ratio Lower Upper
95 100
174 70.4 0.0 140.6
176 66.8 0.0 137.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. -0.000 min
Lab File: VD070524.D
Acq: 29 Sep 2021 15:47

Tgt Ion: 117 Resp: 876208
Ion Ratio Lower Upper
117 100
82 58.5 45.0 67.4
119 31.8 25.2 37.8

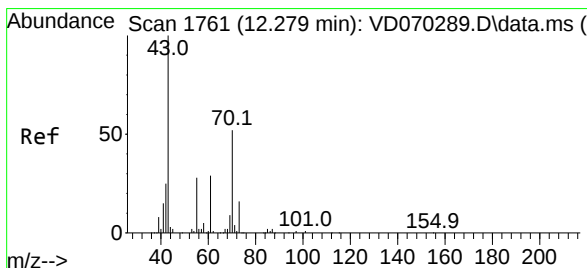
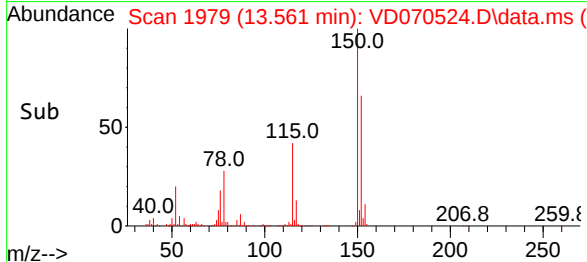
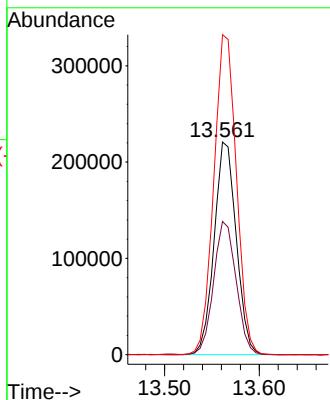
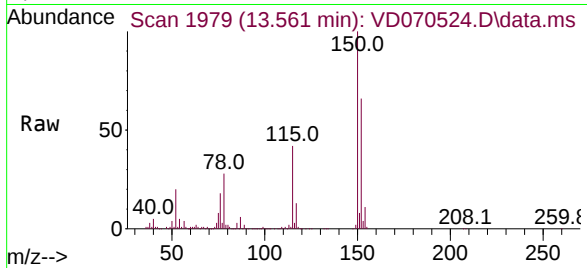




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.561 min Scan# 1979
Delta R.T. -0.006 min
Lab File: VD070524.D
Acq: 29 Sep 2021 15:47

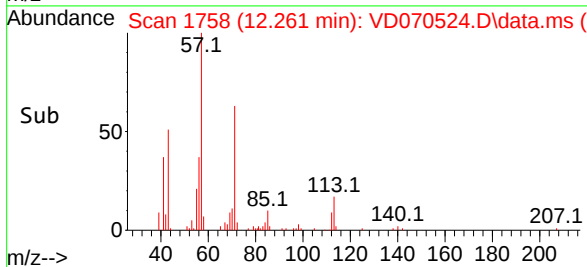
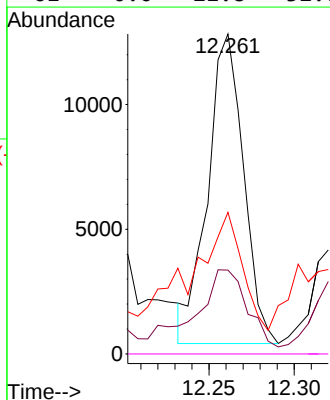
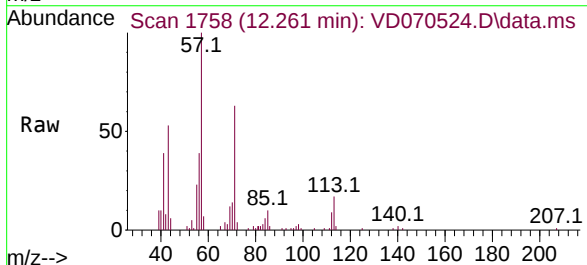
Instrument :
MSVOA_D
ClientSampleId :
S-837-R-SO-4-4.5-092821

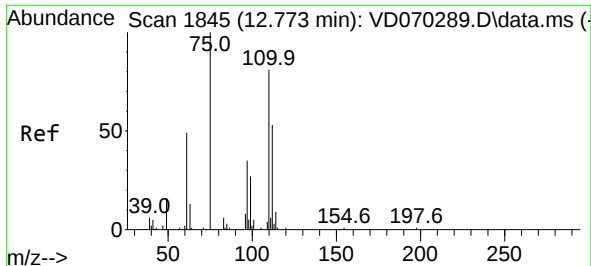
Tgt Ion:152 Resp: 358604
Ion Ratio Lower Upper
152 100
115 63.8 32.1 96.3
150 153.9 0.0 350.6



#74
N-ethyl acetate
Concen: 3.302 ug/l
RT: 12.261 min Scan# 1758
Delta R.T. -0.018 min
Lab File: VD070524.D
Acq: 29 Sep 2021 15:47

Tgt Ion: 43 Resp: 18091
Ion Ratio Lower Upper
43 100
70 35.2 41.4 62.0#
55 54.5 22.8 34.2#
61 0.0 21.8 32.6#

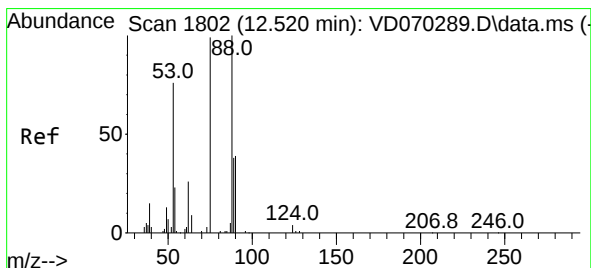
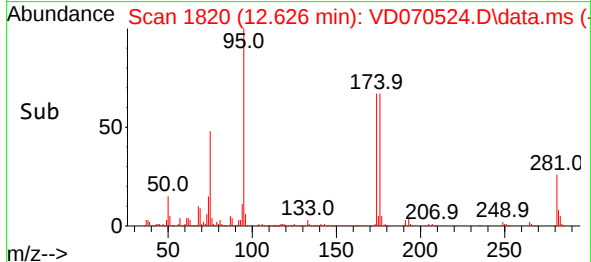
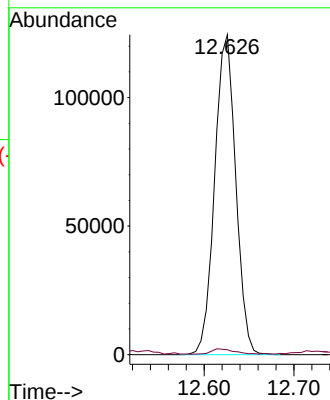
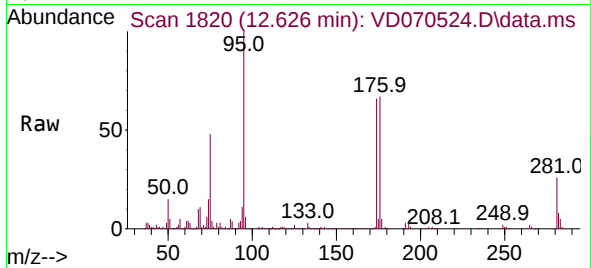




#76
1,2,3-Trichloropropane
Concen: 55.914 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.147 min
Lab File: VD070524.D
Acq: 29 Sep 2021 15:47

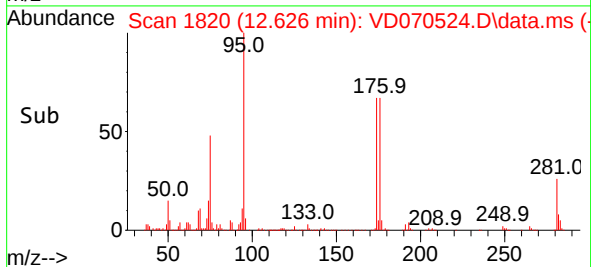
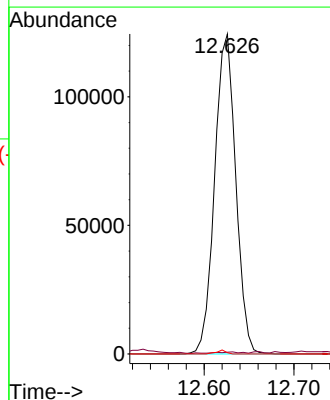
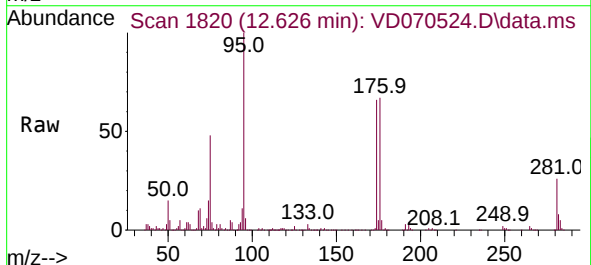
Instrument :
MSVOA_D
ClientSampleId :
S-837-R-SO-4-4.5-092821

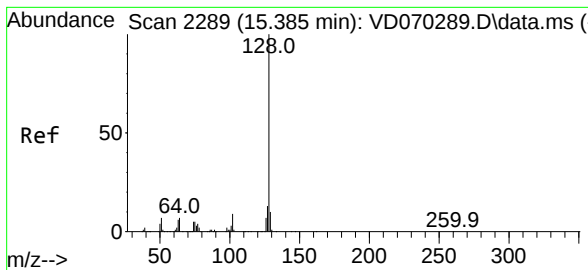
Tgt Ion: 75 Resp: 202818
Ion Ratio Lower Upper
75 100
77 1.8 174.9 524.7#



#81
trans-1,4-Dichloro-2-butene
Concen: 140.097 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. 0.106 min
Lab File: VD070524.D
Acq: 29 Sep 2021 15:47

Tgt Ion: 75 Resp: 202818
Ion Ratio Lower Upper
75 100
53 0.6 64.2 96.2#
89 0.5 35.6 53.4#





#95
Naphthalene
Concen: 1.969 ug/l
RT: 15.385 min Scan# 2289
Delta R.T. -0.000 min
Lab File: VD070524.D
Acq: 29 Sep 2021 15:47

Instrument :
MSVOA_D
ClientSampleId :
S-837-R-SO-4-4.5-092821

Tgt Ion:	128	Resp:	20592
Ion	Ratio	Lower	Upper
128	100		
127	14.5	10.5	15.7
129	11.0	9.0	13.4

