

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD110921\
 Data File : VD070954.D
 Acq On : 09 Nov 2021 17:16
 Operator : VA/SY
 Sample : M4556-01
 Misc : 5.03G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Nov 10 03:57:55 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D110921S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 10 03:55:51 2021
 Response via : Initial Calibration

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

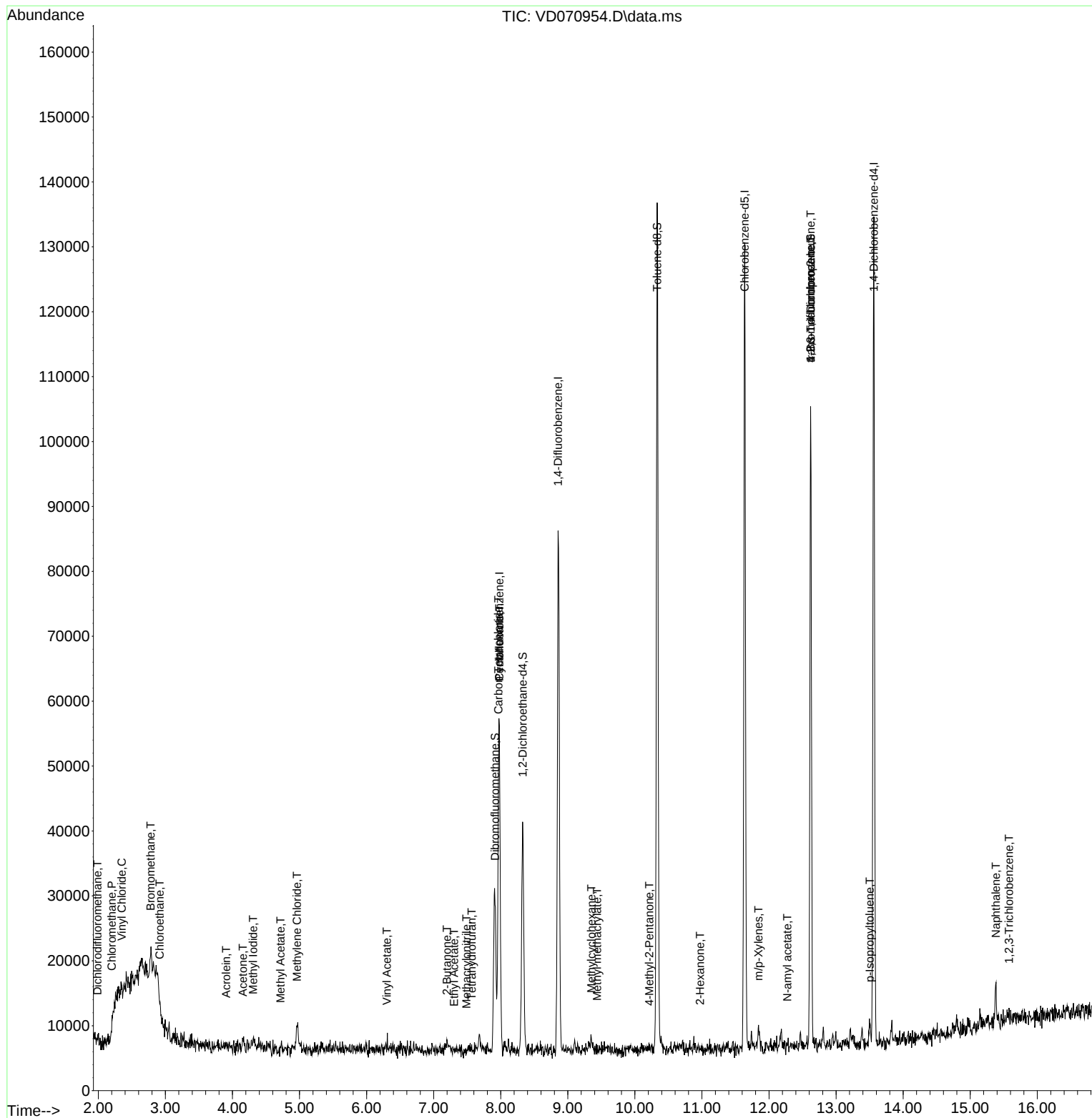
Internal Standards						
1) Pentafluorobenzene	7.979	168	37106	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.856	114	67398	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	65968	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	31274	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	25618	64.844	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 129.680%			
35) Dibromofluoromethane	7.914	113	18517	48.689	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 97.380%			
50) Toluene-d8	10.332	98	83774	56.247	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 112.500%			
62) 4-Bromofluorobenzene	12.620	95	33318	62.129	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 124.260%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.985	85	340	1.072	ug/l #	44
3) Chloromethane	2.203	50	1409	3.735	ug/l	93
4) Vinyl Chloride	2.350	62	450	1.240	ug/l #	69
5) Bromomethane	2.779	94	2616	10.579	ug/l	87
6) Chloroethane	2.915	64	285	1.223	ug/l #	39
10) Methyl Iodide	4.309	142	2320	10.763	ug/l #	93
13) Acrolein	3.909	56	208	18.609	ug/l #	66
16) Acetone	4.156	43	1336	31.327	ug/l #	78
18) Methyl Acetate	4.715	43	423	1.248	ug/l #	51
20) Methylene Chloride	4.962	84	2941	6.176	ug/l	90
23) Vinyl Acetate	6.303	43	215	21.235	ug/l #	72
25) 2-Butanone	7.197	43	1220	28.495	ug/l #	45
29) Tetrahydrofuran	7.567	42	164	2.043	ug/l #	62
31) Cyclohexane	7.979	56	2111	2.598	ug/l #	73
37) Ethyl Acetate	7.303	43	347	1.264	ug/l #	66
38) Carbon Tetrachloride	7.967	117	3430	6.190	ug/l #	24
39) Methylcyclohexane	9.350	83	830	1.068	ug/l #	27
41) Methacrylonitrile	7.491	41	476	5.694	ug/l #	20
48) Methyl methacrylate	9.438	41	1179	4.136	ug/l #	21
51) 4-Methyl-2-Pentanone	10.214	43	676	2.400	ug/l #	51
59) 2-Hexanone	10.973	43	782	19.258	ug/l #	48
68) m/p-Xylenes	11.844	106	885	1.062	ug/l #	65
74) N-amyl acetate	12.273	43	707	1.098	ug/l #	57
76) 1,2,3-Trichloropropane	12.620	75	17367	65.010	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.620	75	17367	120.182	ug/l #	18
86) p-Isopropyltoluene	13.502	119	1994	1.034	ug/l	93
95) Naphthalene	15.385	128	4815	4.833	ug/l #	91
96) 1,2,3-Trichlorobenzene	15.579	180	679	1.548	ug/l #	82

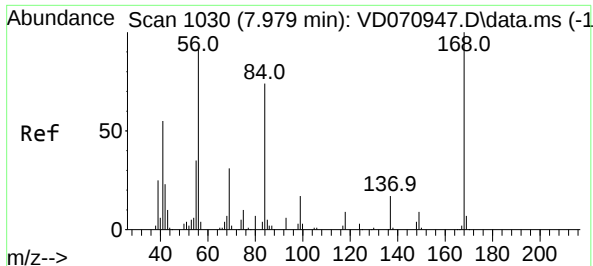
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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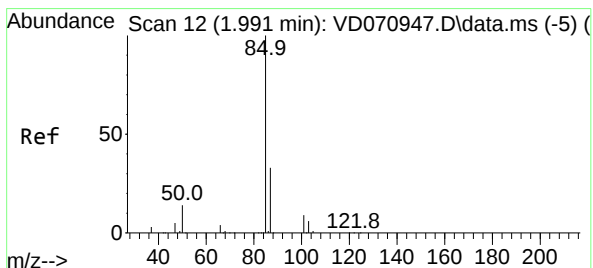
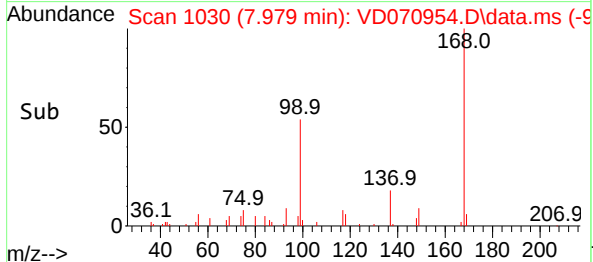
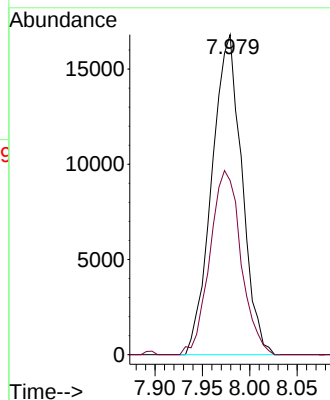
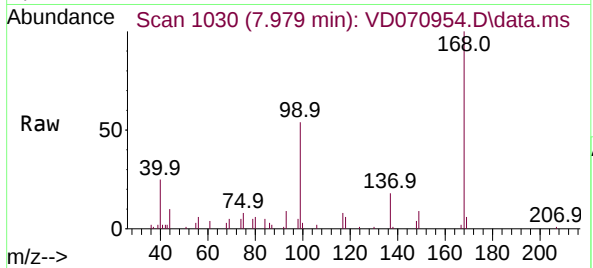




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.979 min Scan# 11
Delta R.T. 0.000 min
Lab File: VD070954.D
Acq: 09 Nov 2021 17:16

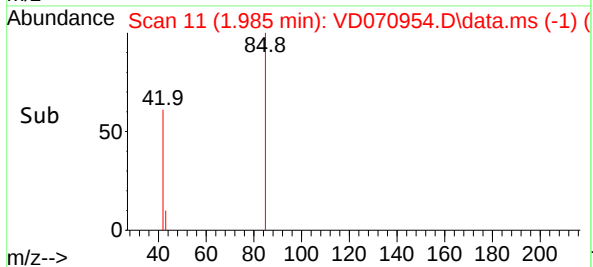
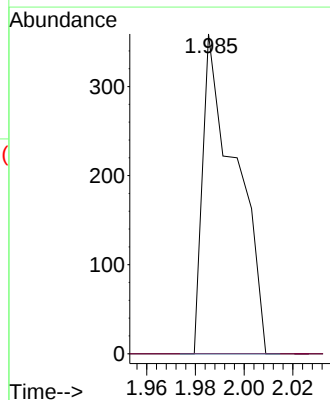
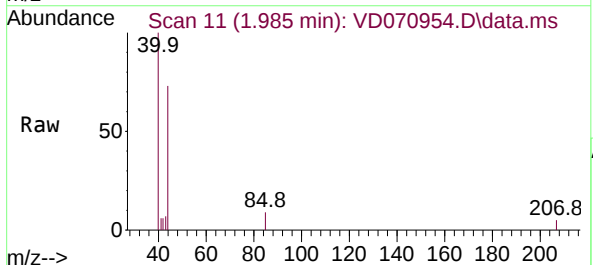
Instrument :
MSVOA_D
ClientSampleId :

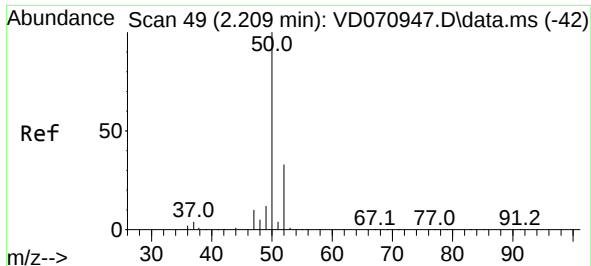
Tgt Ion:168 Resp: 37106
Ion Ratio Lower Upper
168 100
99 54.4 46.6 69.8



#2
Dichlorodifluoromethane
Concen: 1.072 ug/l
RT: 1.985 min Scan# 11
Delta R.T. -0.006 min
Lab File: VD070954.D
Acq: 09 Nov 2021 17:16

Tgt Ion: 85 Resp: 340
Ion Ratio Lower Upper
85 100
87 0.0 15.2 45.6#

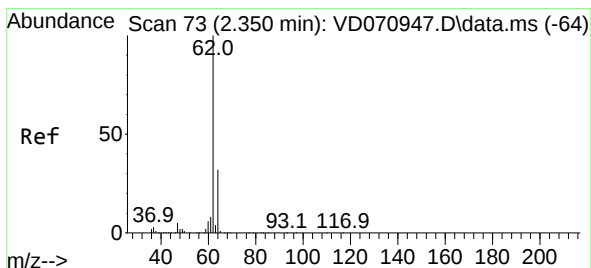
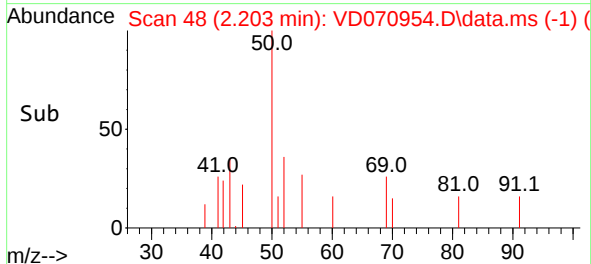
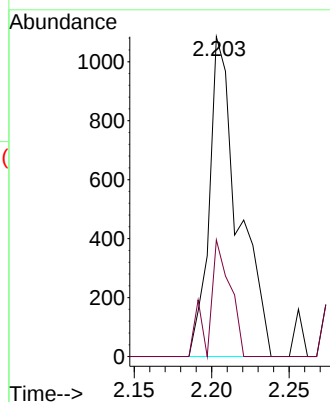
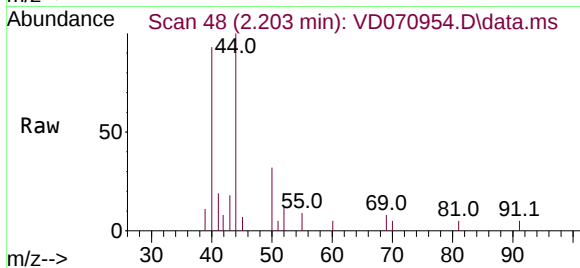




#3
Chloromethane
Concen: 3.735 ug/l
RT: 2.203 min Scan# 49
Delta R.T. -0.006 min
Lab File: VD070954.D
Acq: 09 Nov 2021 17:16

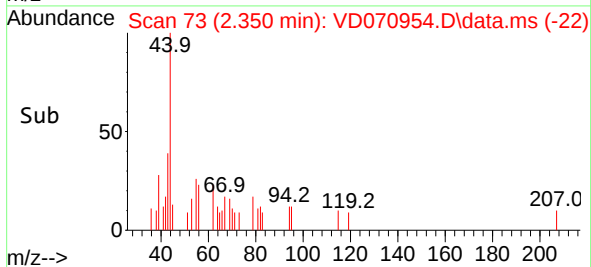
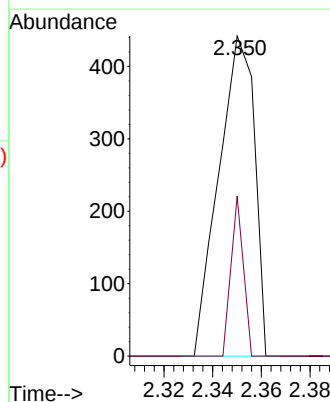
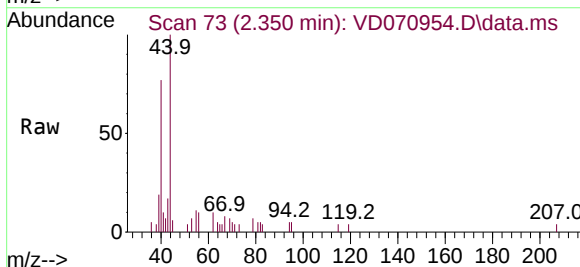
Instrument :
MSVOA_D
ClientSampleId :

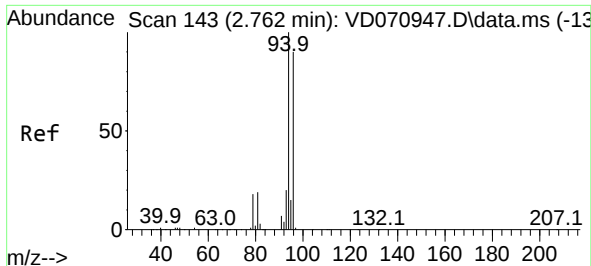
Tgt Ion: 50 Resp: 1409
Ion Ratio Lower Upper
50 100
52 36.5 25.8 38.8



#4
Vinyl Chloride
Concen: 1.240 ug/l
RT: 2.350 min Scan# 73
Delta R.T. 0.000 min
Lab File: VD070954.D
Acq: 09 Nov 2021 17:16

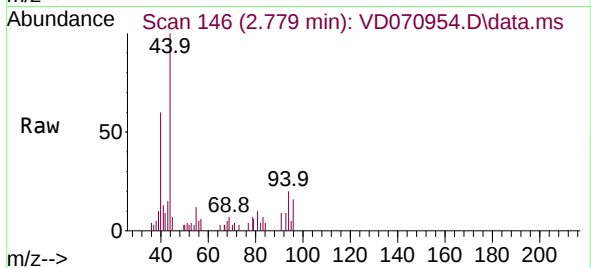
Tgt Ion: 62 Resp: 450
Ion Ratio Lower Upper
62 100
64 50.0 26.0 39.0#



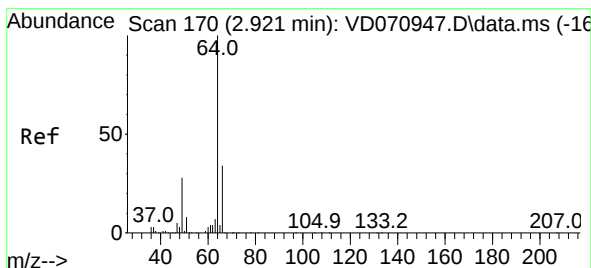
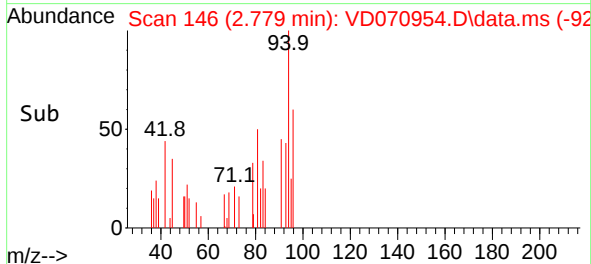
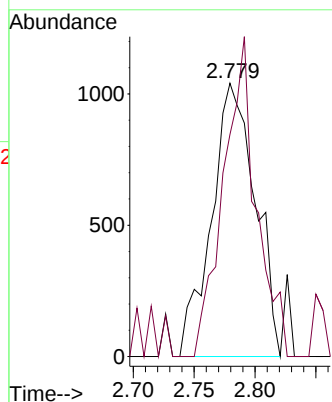


#5
Bromomethane
Concen: 10.579 ug/l
RT: 2.779 min Scan# 143
Delta R.T. 0.017 min
Lab File: VD070954.D
Acq: 09 Nov 2021 17:16

Instrument :
MSVOA_D
ClientSampleId :

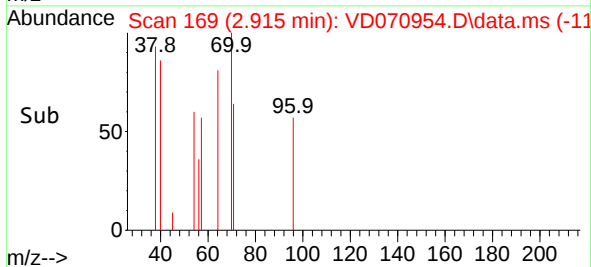
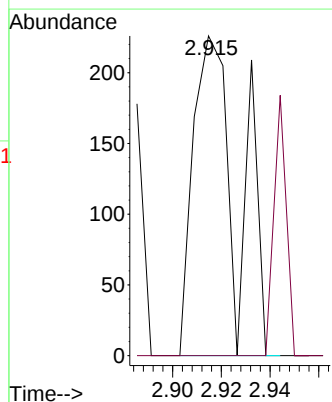
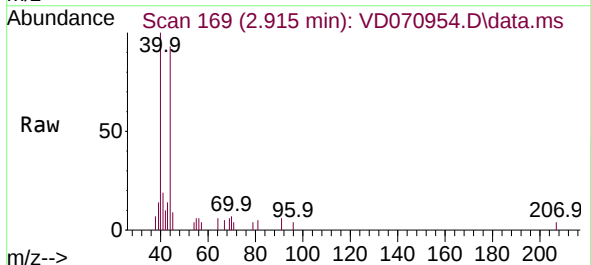


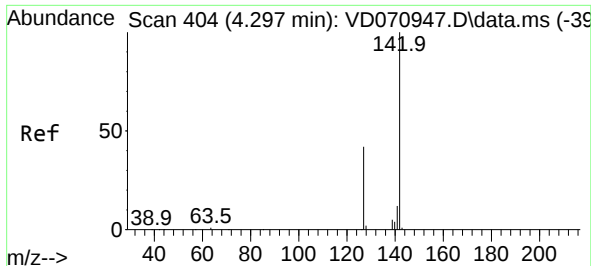
Tgt Ion: 94 Resp: 2616
Ion Ratio Lower Upper
94 100
96 81.3 74.8 112.2



#6
Chloroethane
Concen: 1.223 ug/l
RT: 2.915 min Scan# 169
Delta R.T. -0.006 min
Lab File: VD070954.D
Acq: 09 Nov 2021 17:16

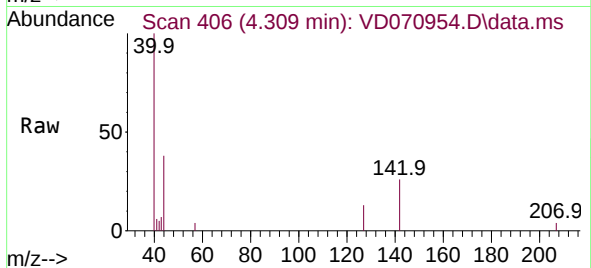
Tgt Ion: 64 Resp: 285
Ion Ratio Lower Upper
64 100
66 0.0 29.0 43.4#



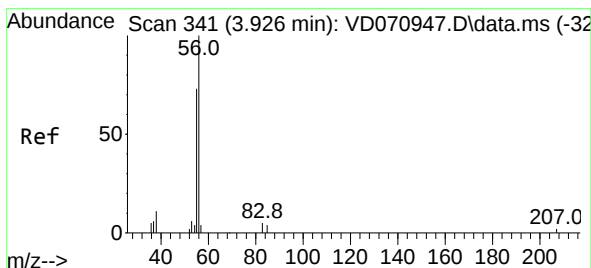
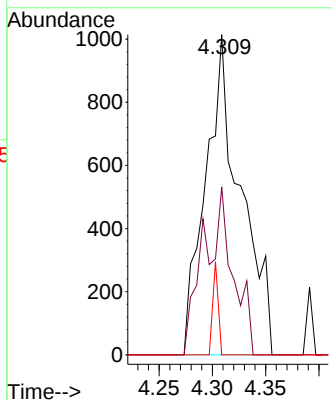
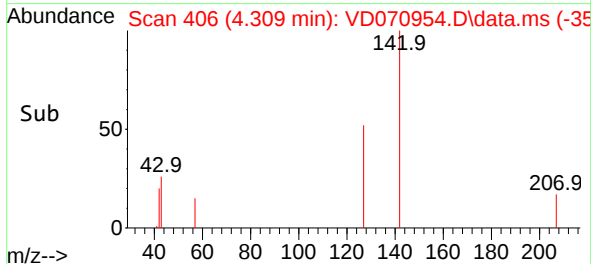


#10
Methyl Iodide
Concen: 10.763 ug/l
RT: 4.309 min Scan# 404
Delta R.T. 0.012 min
Lab File: VD070954.D
Acq: 09 Nov 2021 17:16

Instrument :
MSVOA_D
ClientSampleId :

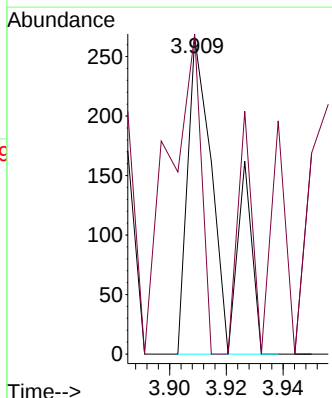
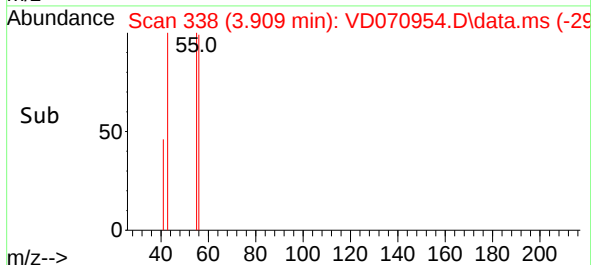
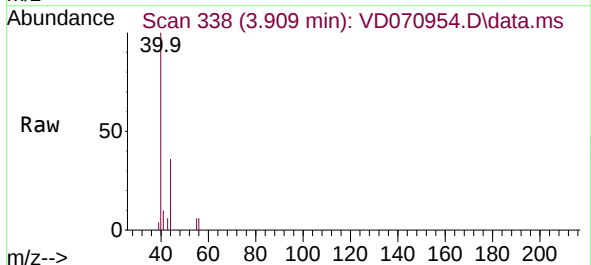


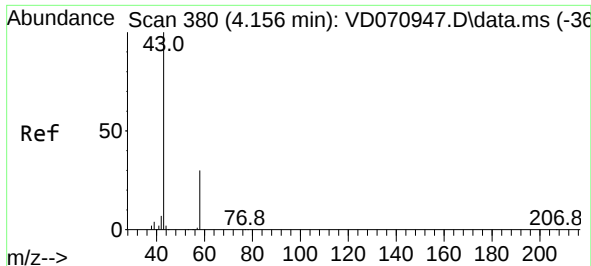
Tgt Ion:142 Resp: 2320
Ion Ratio Lower Upper
142 100
127 43.6 35.0 52.4
141 4.5 12.0 18.0#



#13
Acrolein
Concen: 18.609 ug/l
RT: 3.909 min Scan# 338
Delta R.T. -0.017 min
Lab File: VD070954.D
Acq: 09 Nov 2021 17:16

Tgt Ion: 56 Resp: 208
Ion Ratio Lower Upper
56 100
55 101.9 58.6 87.8#

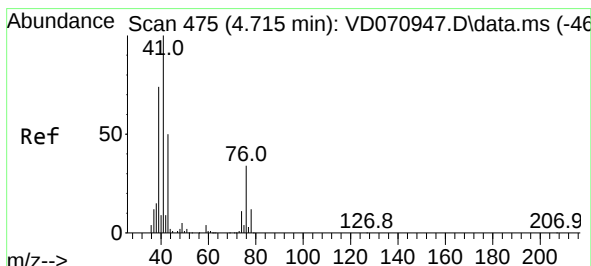
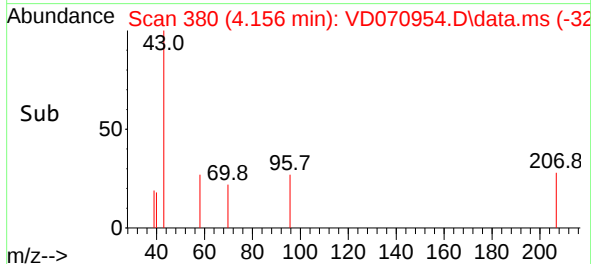
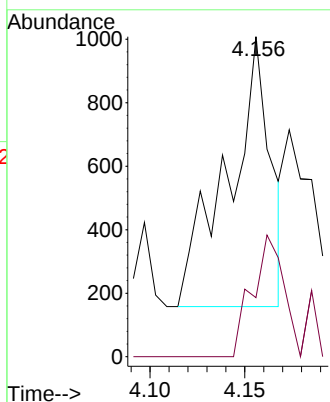
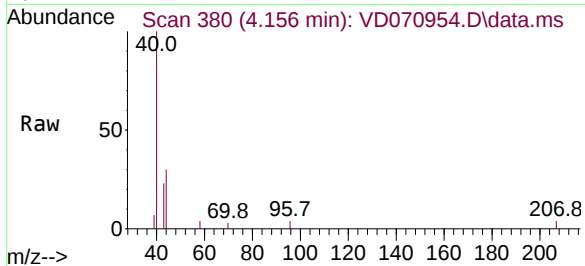




#16
Acetone
Concen: 31.327 ug/l
RT: 4.156 min Scan# 380
Delta R.T. -0.000 min
Lab File: VD070954.D
Acq: 09 Nov 2021 17:16

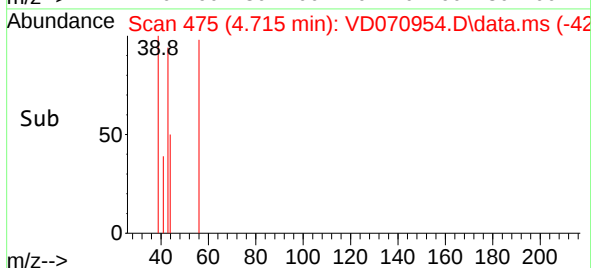
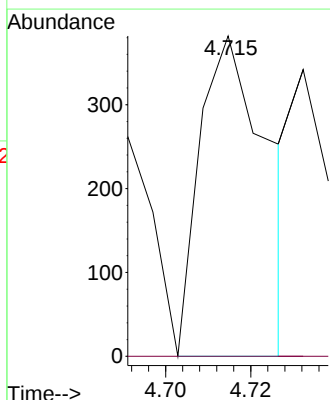
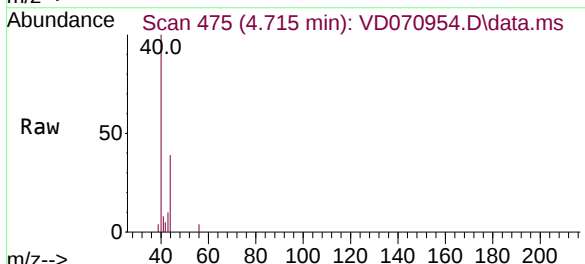
Instrument :
MSVOA_D
ClientSampleId :

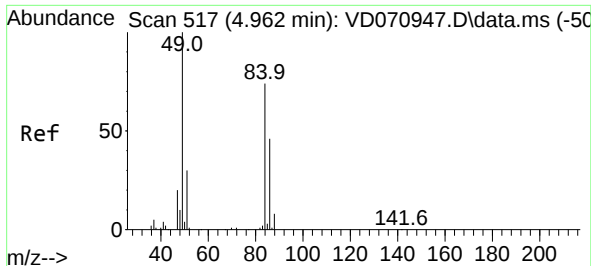
Tgt Ion: 43 Resp: 1336
Ion Ratio Lower Upper
43 100
58 21.9 27.8 41.8#



#18
Methyl Acetate
Concen: 1.248 ug/l
RT: 4.715 min Scan# 475
Delta R.T. -0.000 min
Lab File: VD070954.D
Acq: 09 Nov 2021 17:16

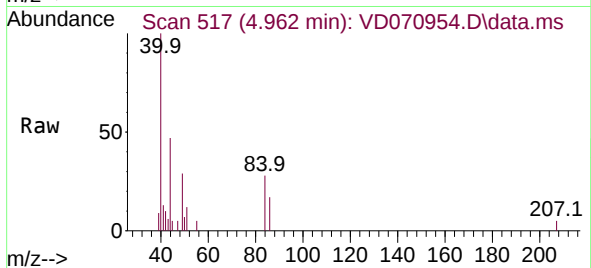
Tgt Ion: 43 Resp: 423
Ion Ratio Lower Upper
43 100
74 0.0 19.3 28.9#



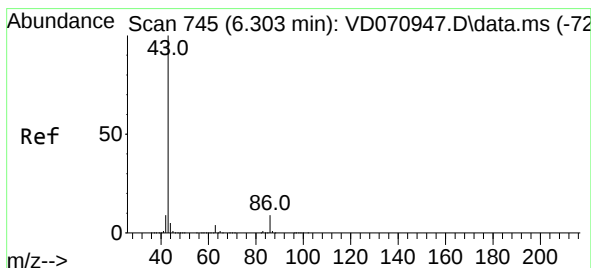
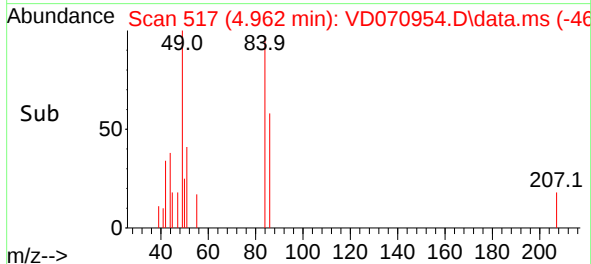
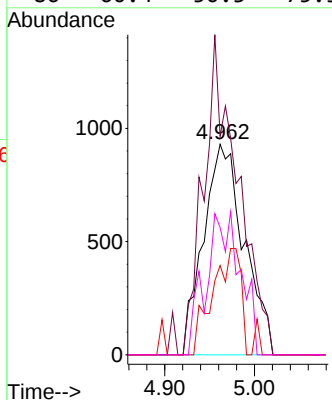


#20
Methylene Chloride
Concen: 6.176 ug/l
RT: 4.962 min Scan# 517
Delta R.T. -0.000 min
Lab File: VD070954.D
Acq: 09 Nov 2021 17:16

Instrument :
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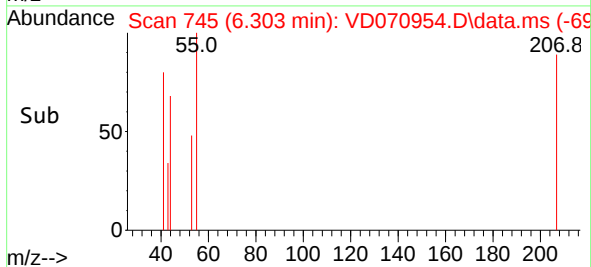
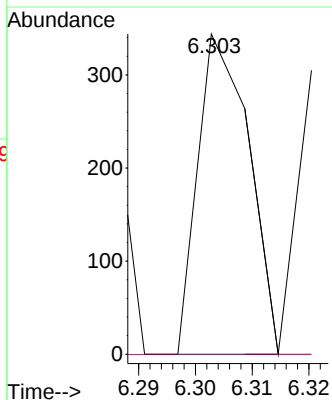
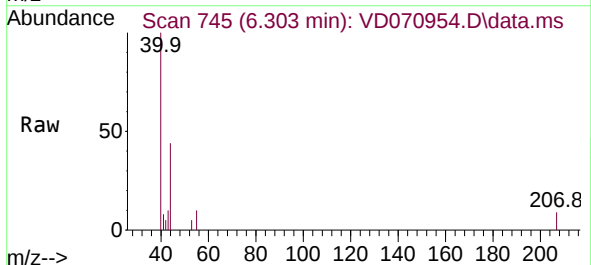


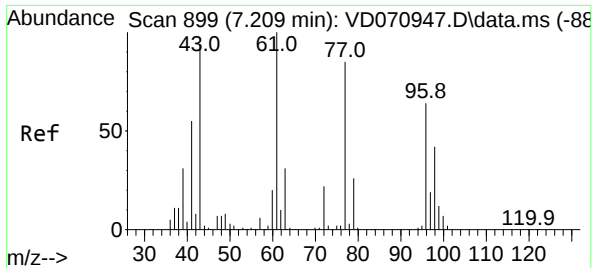
Tgt Ion:	84	Resp:	2941
Ion	Ratio	Lower	Upper
84	100		
49	103.8	95.8	143.6
51	42.4	30.9	46.3
86	60.4	50.3	75.5



#23
Vinyl Acetate
Concen: 21.235 ug/l
RT: 6.303 min Scan# 745
Delta R.T. -0.000 min
Lab File: VD070954.D
Acq: 09 Nov 2021 17:16

Tgt Ion:	43	Resp:	215
Ion	Ratio	Lower	Upper
43	100		
86	0.0	8.2	12.4#

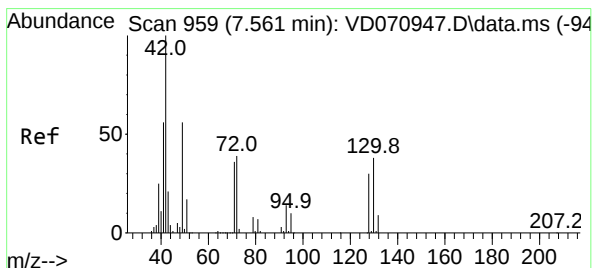
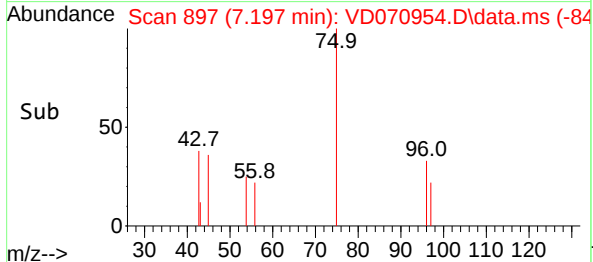
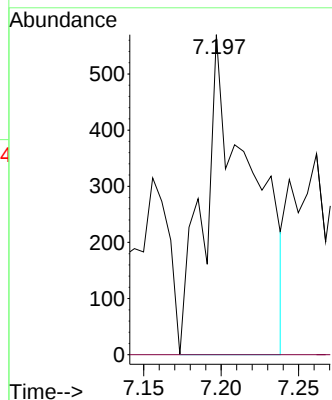
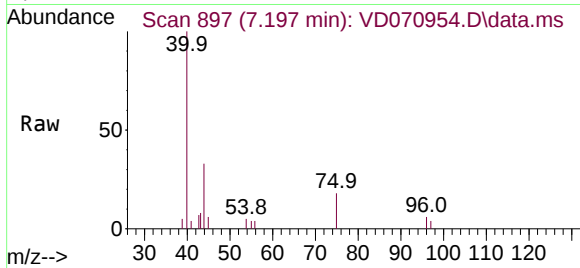




#25
2-Butanone
Concen: 28.495 ug/l
RT: 7.197 min Scan# 899
Delta R.T. -0.012 min
Lab File: VD070954.D
Acq: 09 Nov 2021 17:16

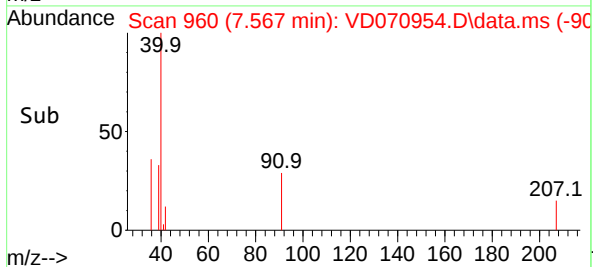
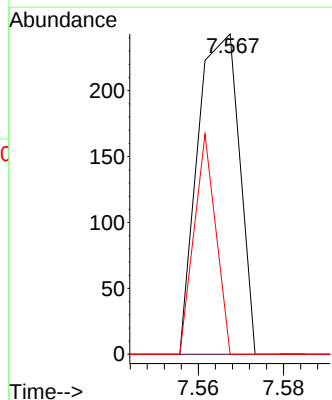
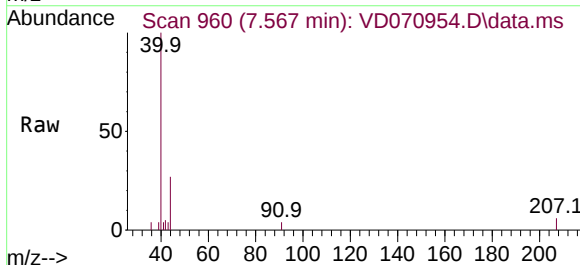
Instrument :
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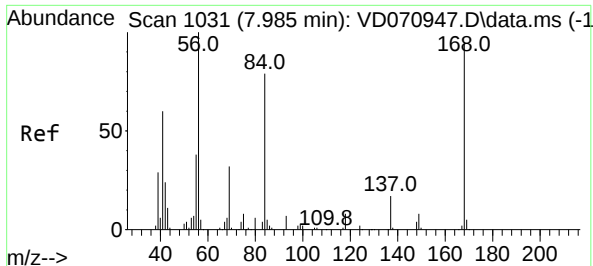
Tgt Ion: 43 Resp: 1220
Ion Ratio Lower Upper
43 100
72 0.0 23.8 35.6#



#29
Tetrahydrofuran
Concen: 2.043 ug/l
RT: 7.567 min Scan# 960
Delta R.T. 0.006 min
Lab File: VD070954.D
Acq: 09 Nov 2021 17:16

Tgt Ion: 42 Resp: 164
Ion Ratio Lower Upper
42 100
72 0.0 33.7 50.5#
71 36.0 32.7 49.1





#31

Cyclohexane

Concen: 2.598 ug/l

RT: 7.979 min Scan# 1030

Delta R.T. -0.006 min

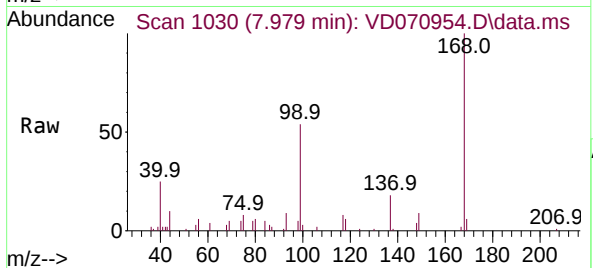
Lab File: VD070954.D

Acq: 09 Nov 2021 17:16

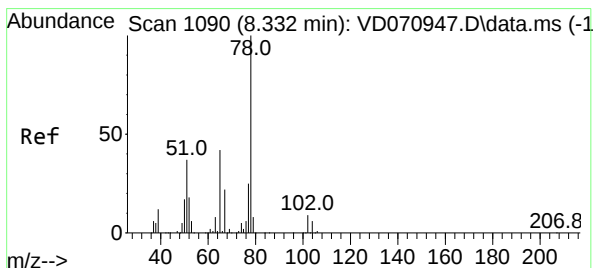
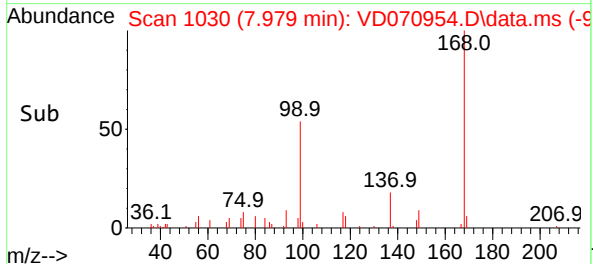
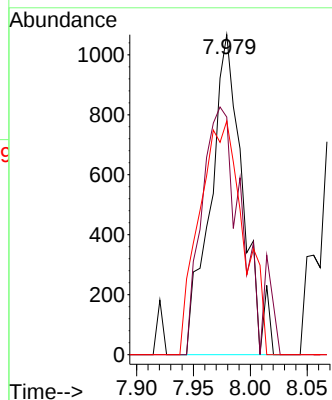
Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion:	56	Resp:	2111
Ion Ratio	Lower	Upper	
56	100		
69	74.2	25.9	38.9#
84	73.0	64.3	96.5



#33

1,2-Dichloroethane-d4

Concen: 64.844 ug/l

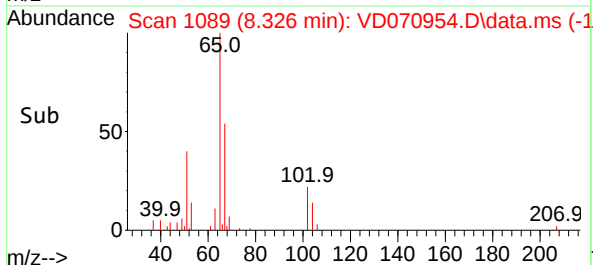
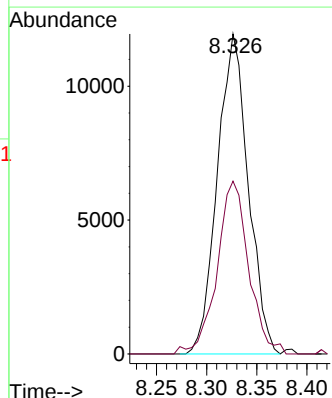
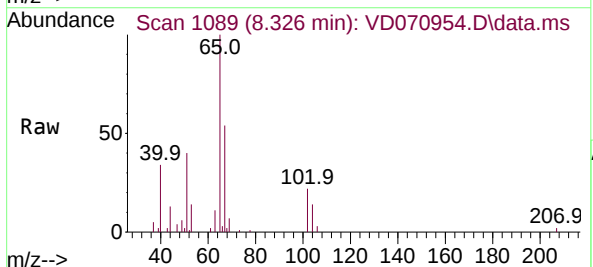
RT: 8.326 min Scan# 1089

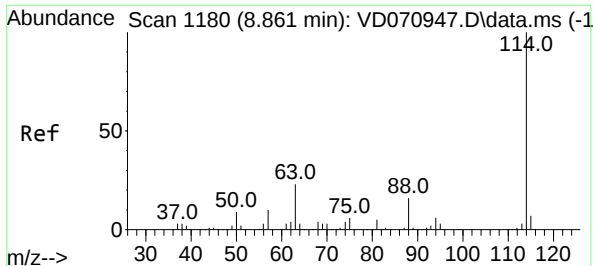
Delta R.T. -0.006 min

Lab File: VD070954.D

Acq: 09 Nov 2021 17:16

Tgt Ion:	65	Resp:	25618
Ion Ratio	Lower	Upper	
65	100		
67	55.2	0.0	112.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.856 min Scan# 11

Delta R.T. -0.005 min

Lab File: VD070954.D

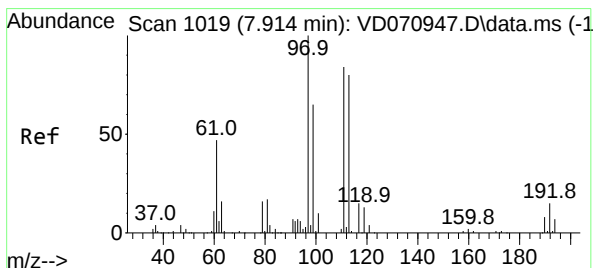
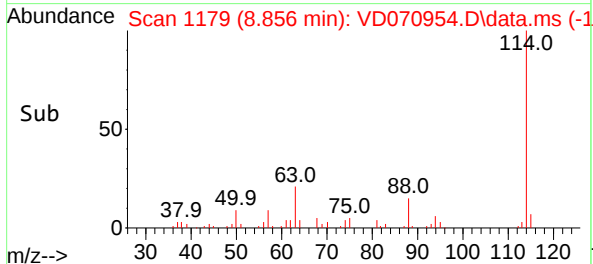
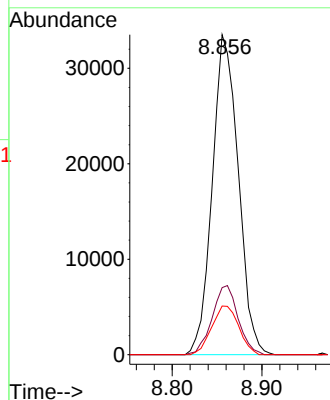
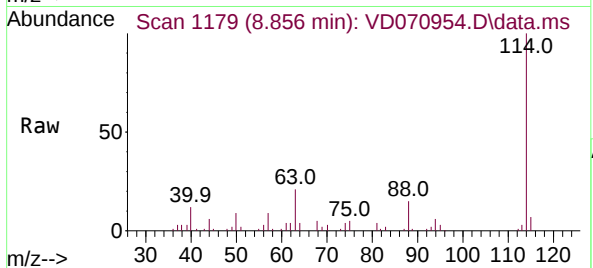
Acq: 09 Nov 2021 17:16

Instrument :

MSVOA_D

ClientSampleId :

Tgt Ion:114	Resp:	67398
Ion Ratio	Lower	Upper
114	100	
63	21.0	0.0 41.8
88	15.2	0.0 32.8



#35

Dibromofluoromethane

Concen: 48.689 ug/l

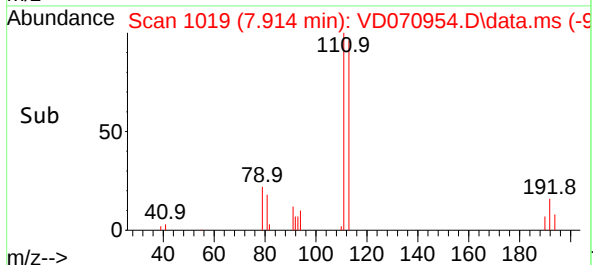
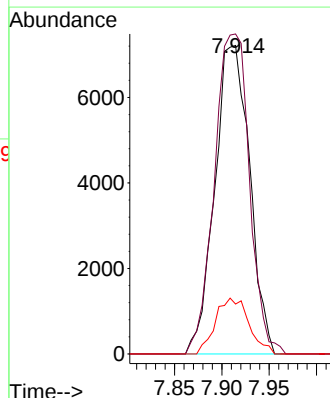
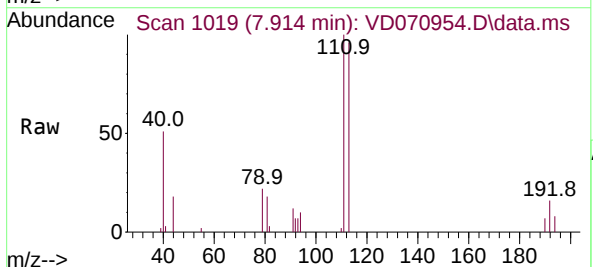
RT: 7.914 min Scan# 1019

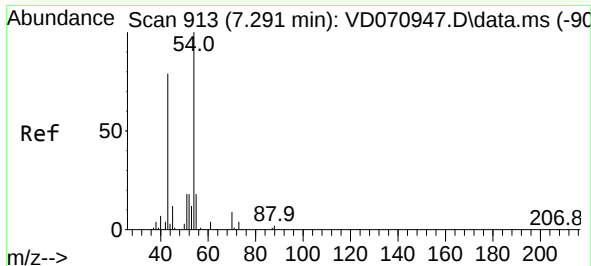
Delta R.T. 0.000 min

Lab File: VD070954.D

Acq: 09 Nov 2021 17:16

Tgt Ion:113	Resp:	18517
Ion Ratio	Lower	Upper
113	100	
111	104.1	82.0 123.0
192	17.3	15.2 22.8





#37

Ethyl Acetate

Concen: 1.264 ug/l

RT: 7.303 min Scan# 91

Delta R.T. 0.012 min

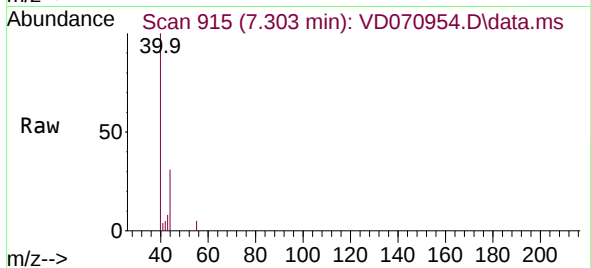
Lab File: VD070954.D

Acq: 09 Nov 2021 17:16

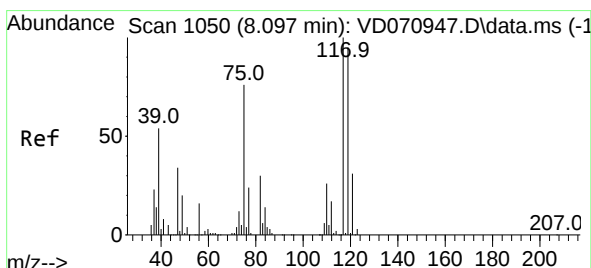
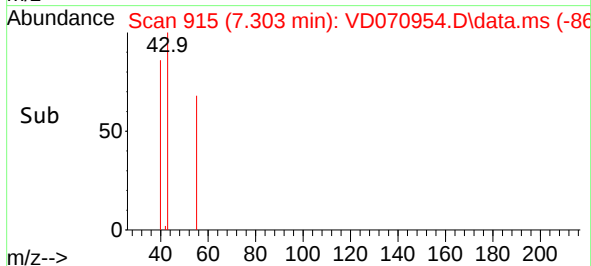
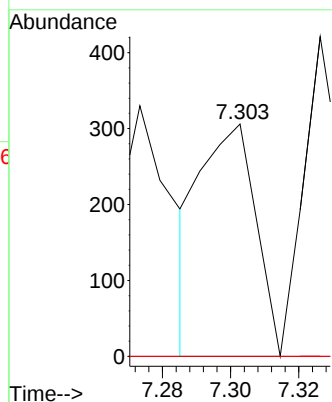
Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion:	43	Resp:	347
Ion	Ratio	Lower	Upper
43	100		
61	0.0	13.0	19.6#
70	0.0	8.7	13.1#



#38

Carbon Tetrachloride

Concen: 6.190 ug/l

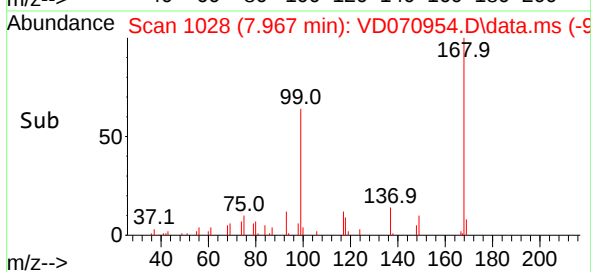
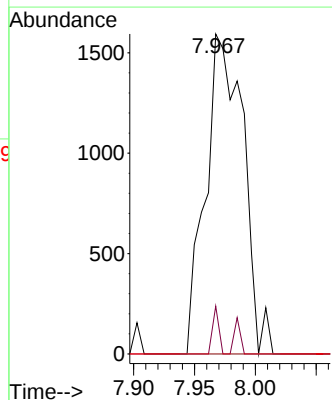
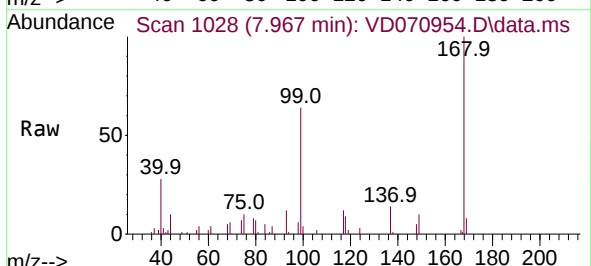
RT: 7.967 min Scan# 1028

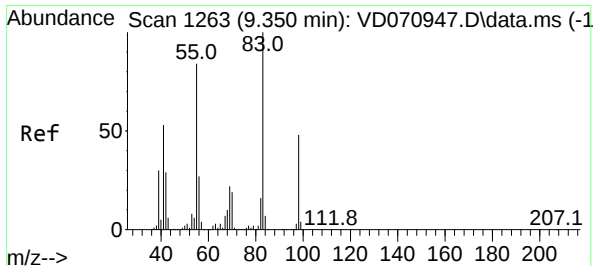
Delta R.T. -0.130 min

Lab File: VD070954.D

Acq: 09 Nov 2021 17:16

Tgt Ion:	117	Resp:	3430
Ion	Ratio	Lower	Upper
117	100		
119	14.9	75.8	113.6#
121	0.0	23.6	35.4#





#39

Methylcyclohexane

Concen: 1.068 ug/l

RT: 9.350 min Scan# 1

Delta R.T. -0.000 min

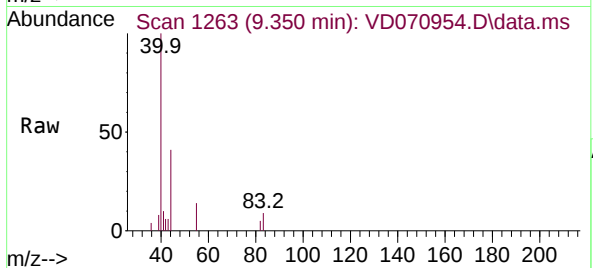
Lab File: VD070954.D

Acq: 09 Nov 2021 17:16

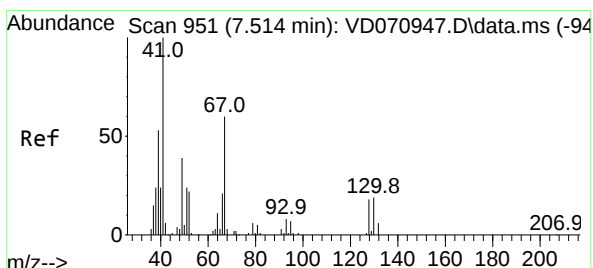
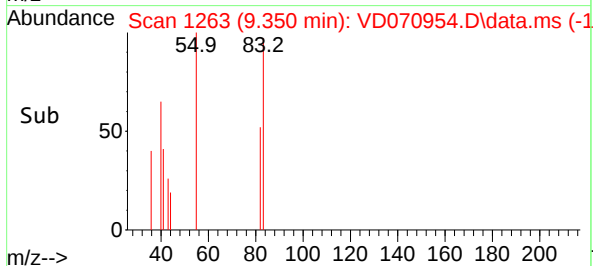
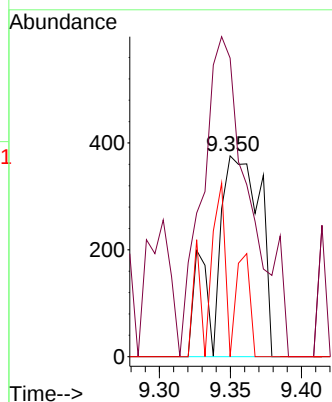
Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion: 83	Resp: 830
Ion Ratio	Lower Upper
83	100
55	148.7 65.8 98.8#
98	0.0 38.7 58.1#



#41

Methacrylonitrile

Concen: 5.694 ug/l

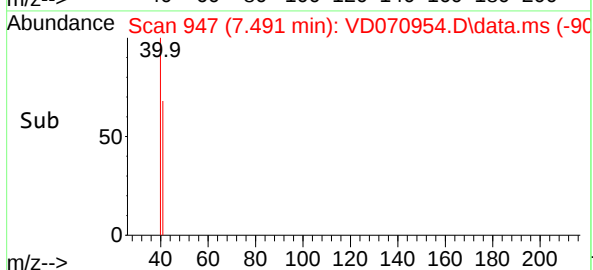
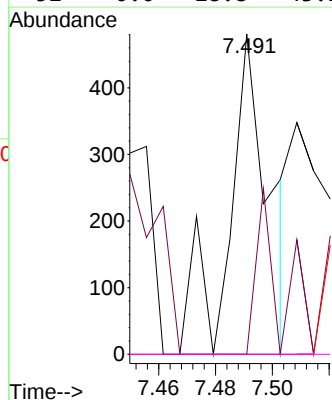
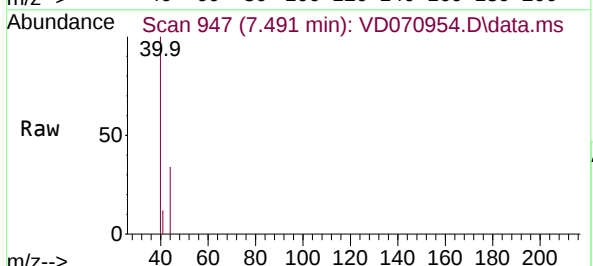
RT: 7.491 min Scan# 947

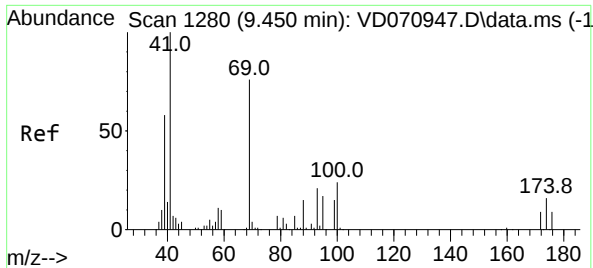
Delta R.T. -0.023 min

Lab File: VD070954.D

Acq: 09 Nov 2021 17:16

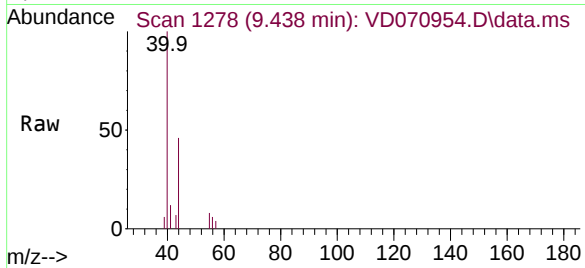
Tgt Ion: 41	Resp: 476
Ion Ratio	Lower Upper
41	100
39	18.5 60.2 90.4#
67	0.0 74.8 112.2#
52	0.0 28.8 43.2#



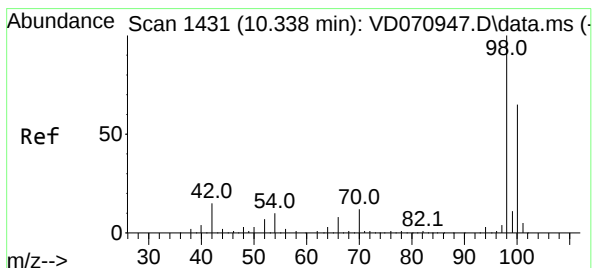
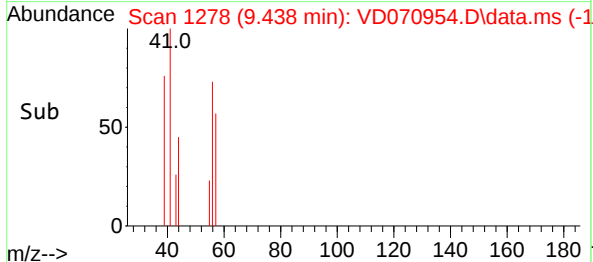
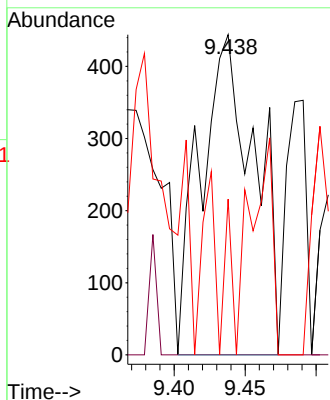


#48
Methyl methacrylate
Concen: 4.136 ug/l
RT: 9.438 min Scan# 1179
Delta R.T. -0.012 min
Lab File: VD070954.D
Acq: 09 Nov 2021 17:16

Instrument :
MSVOA_D
ClientSampleId :

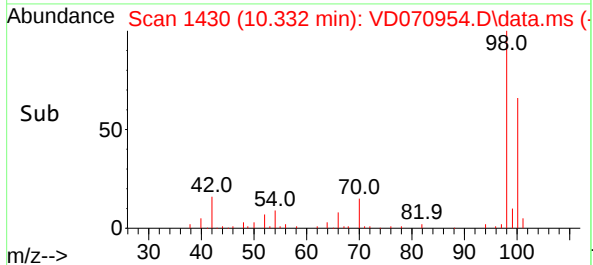
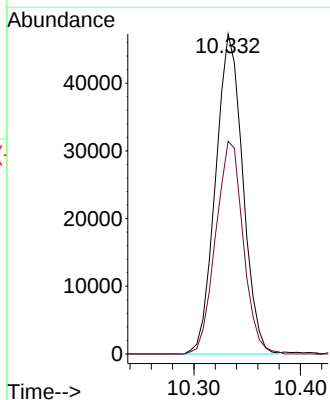
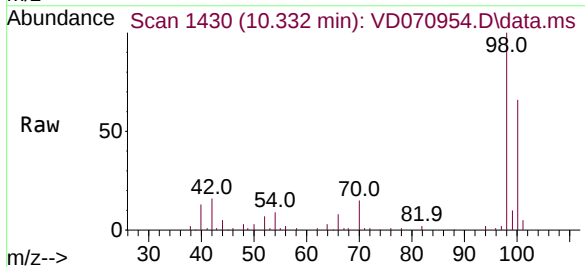


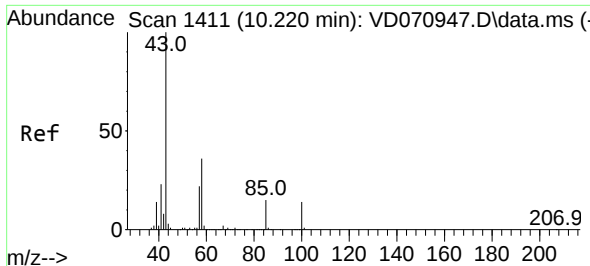
Tgt Ion: 41 Resp: 1179
Ion Ratio Lower Upper
41 100
69 0.0 69.8 104.6#
39 13.1 35.6 53.4#



#50
Toluene-d8
Concen: 56.247 ug/l
RT: 10.332 min Scan# 1430
Delta R.T. -0.006 min
Lab File: VD070954.D
Acq: 09 Nov 2021 17:16

Tgt Ion: 98 Resp: 83774
Ion Ratio Lower Upper
98 100
100 67.3 51.8 77.6

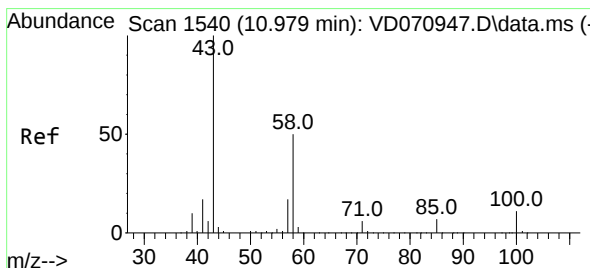
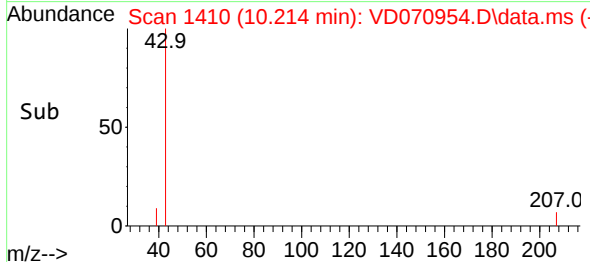
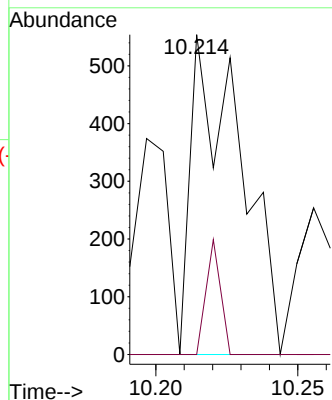
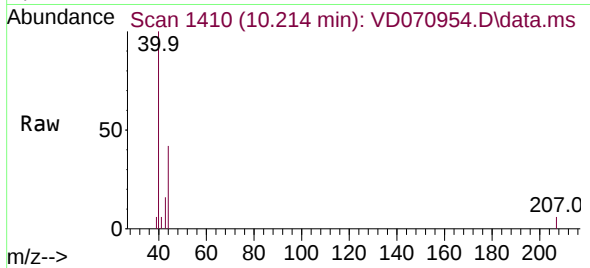




#51
4-Methyl-2-Pentanone
Concen: 2.400 ug/l
RT: 10.214 min Scan# 1411
Delta R.T. -0.006 min
Lab File: VD070954.D
Acq: 09 Nov 2021 17:16

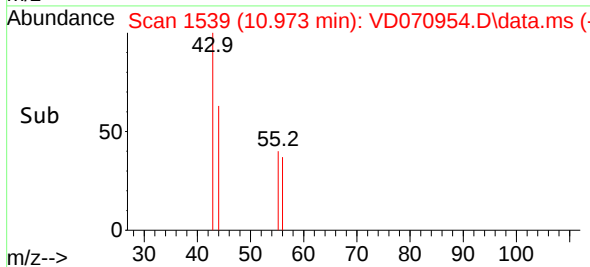
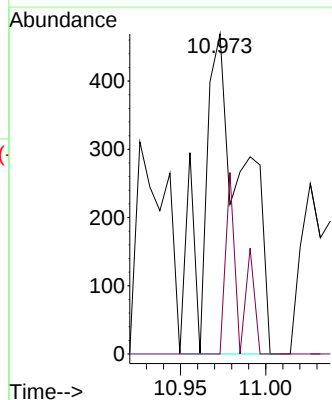
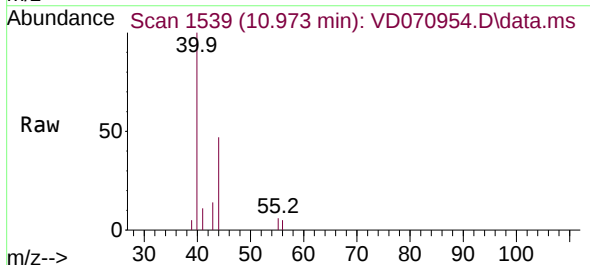
Instrument :
MSVOA_D
ClientSampleId :

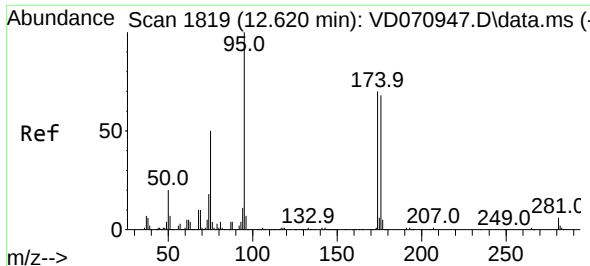
Tgt Ion: 43 Resp: 676
Ion Ratio Lower Upper
43 100
58 10.4 33.1 49.7#



#59
2-Hexanone
Concen: 19.258 ug/l
RT: 10.973 min Scan# 1539
Delta R.T. -0.006 min
Lab File: VD070954.D
Acq: 09 Nov 2021 17:16

Tgt Ion: 43 Resp: 782
Ion Ratio Lower Upper
43 100
58 19.1 28.7 86.1#

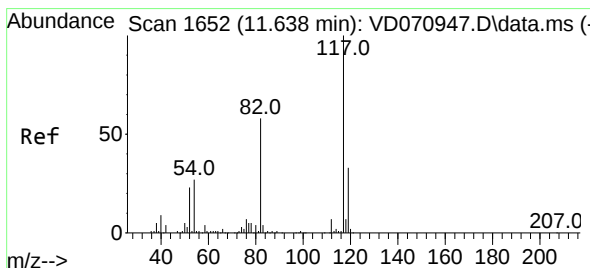
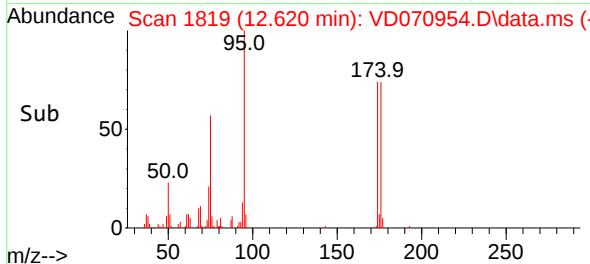
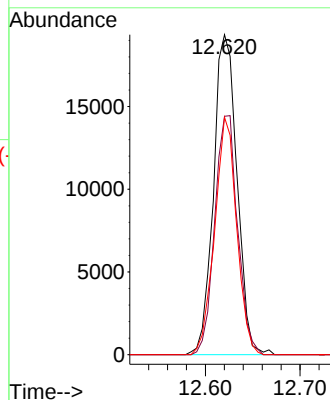
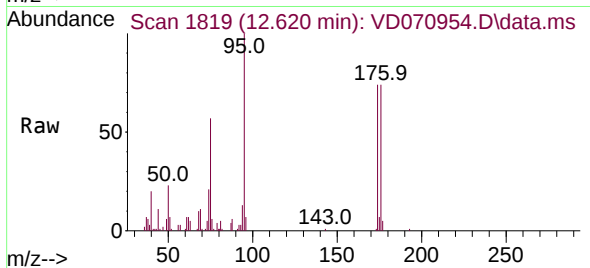




#62
4-Bromofluorobenzene
Concen: 62.129 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.000 min
Lab File: VD070954.D
Acq: 09 Nov 2021 17:16

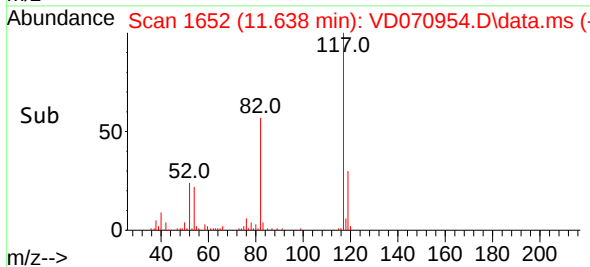
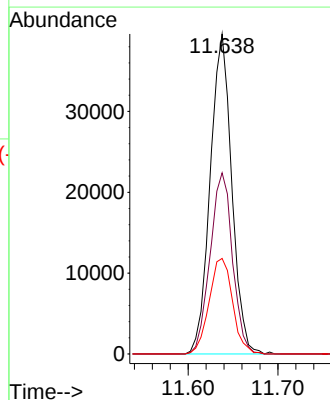
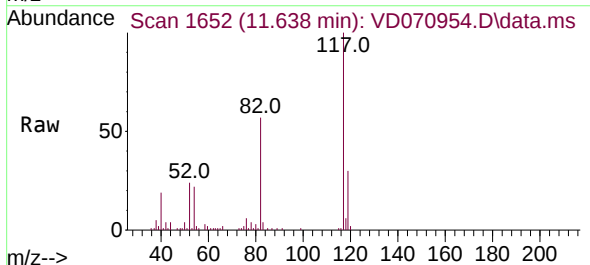
Instrument :
MSVOA_D
ClientSampleId :

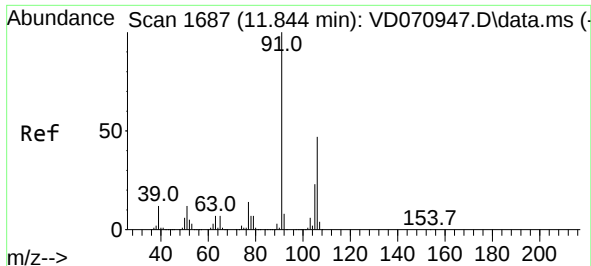
Tgt Ion: 95 Resp: 33318
Ion Ratio Lower Upper
95 100
174 73.0 0.0 159.4
176 69.6 0.0 154.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. -0.000 min
Lab File: VD070954.D
Acq: 09 Nov 2021 17:16

Tgt Ion: 117 Resp: 65968
Ion Ratio Lower Upper
117 100
82 56.6 44.7 67.1
119 29.9 26.2 39.4

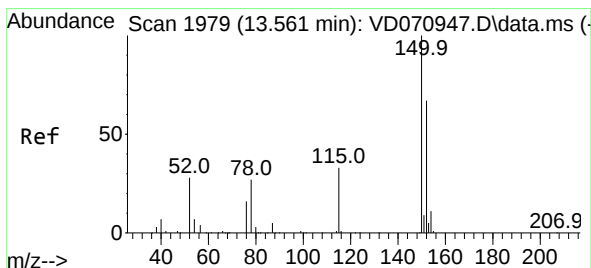
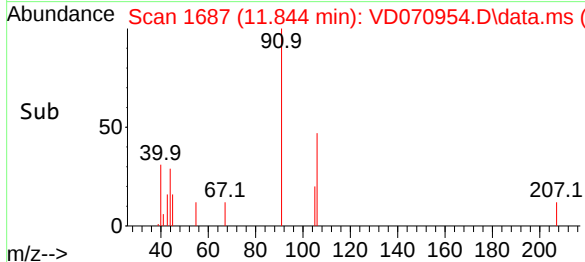
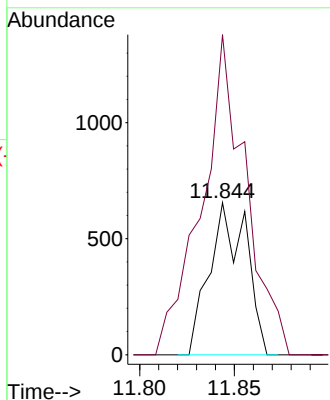
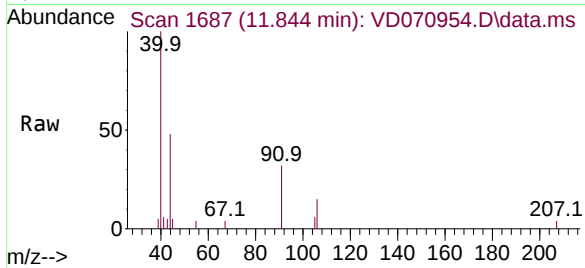




#68
m/p-Xylenes
Concen: 1.062 ug/l
RT: 11.844 min Scan# 11
Delta R.T. -0.000 min
Lab File: VD070954.D
Acq: 09 Nov 2021 17:16

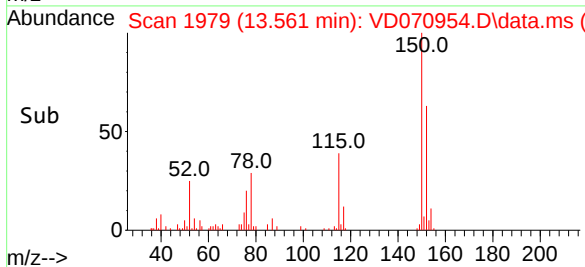
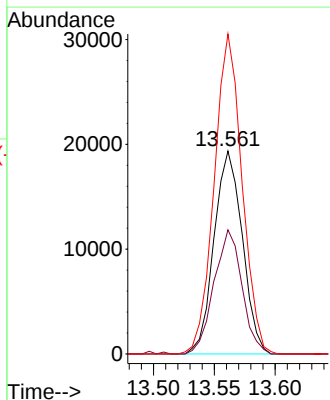
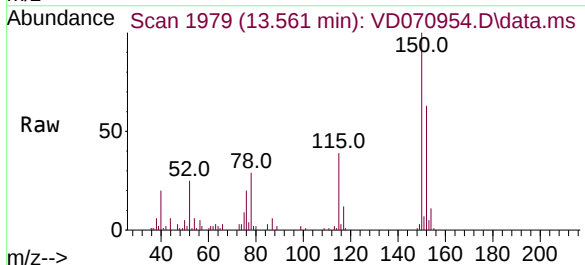
Instrument :
MSVOA_D
ClientSampleId :

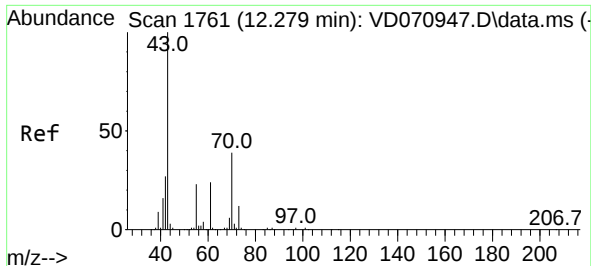
Tgt Ion:106 Resp: 885
Ion Ratio Lower Upper
106 100
91 253.0 160.1 240.1#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.561 min Scan# 1979
Delta R.T. 0.000 min
Lab File: VD070954.D
Acq: 09 Nov 2021 17:16

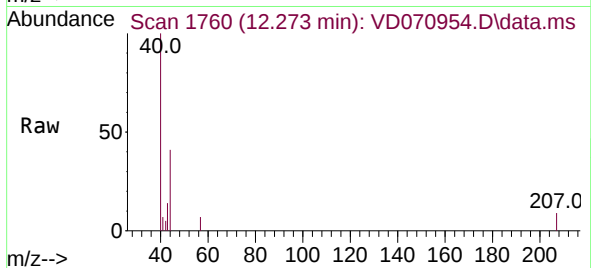
Tgt Ion:152 Resp: 31274
Ion Ratio Lower Upper
152 100
115 60.5 29.8 89.3
150 155.3 0.0 349.2



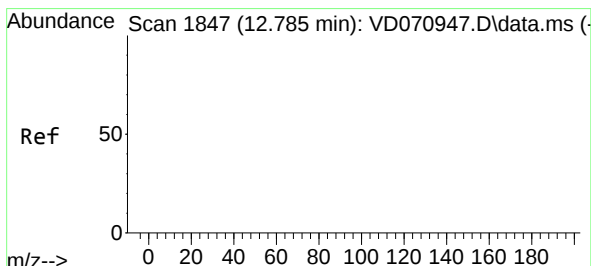
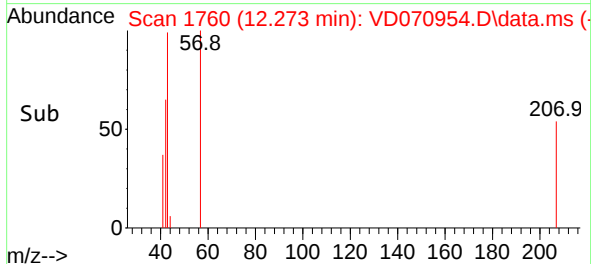
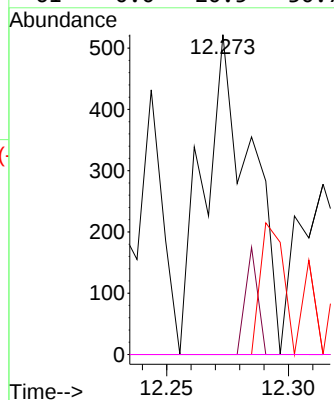


#74
N-amy1 acetate
Concen: 1.098 ug/l
RT: 12.273 min Scan# 1819
Delta R.T. -0.006 min
Lab File: VD070954.D
Acq: 09 Nov 2021 17:16

Instrument :
MSVOA_D
ClientSampleId :

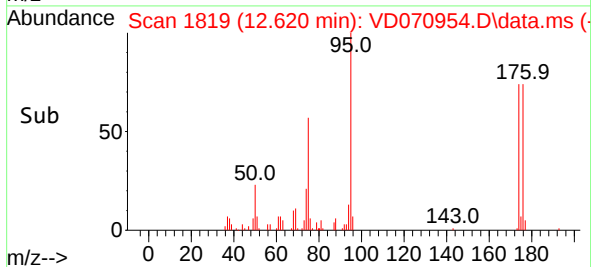
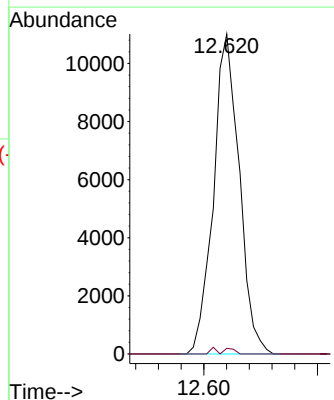
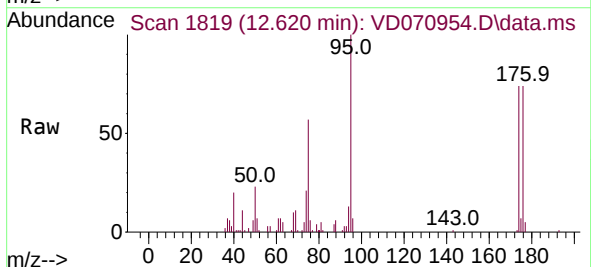


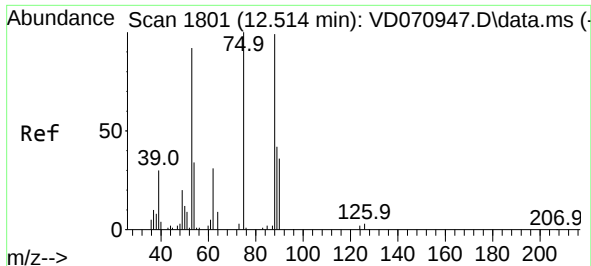
Tgt Ion: 43	Resp: 707
Ion Ratio	Lower Upper
43 100	
70 8.8	36.6 55.0#
55 19.8	22.5 33.7#
61 0.0	20.5 30.7#



#76
1,2,3-Trichloropropane
Concen: 65.010 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.165 min
Lab File: VD070954.D
Acq: 09 Nov 2021 17:16

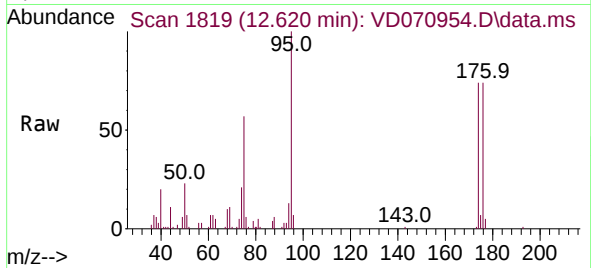
Tgt Ion: 75	Resp: 17367
Ion Ratio	Lower Upper
75 100	
77 0.7	158.4 475.3#



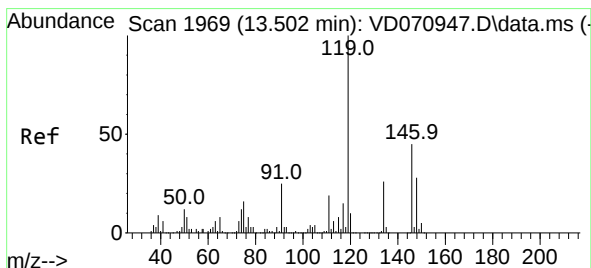
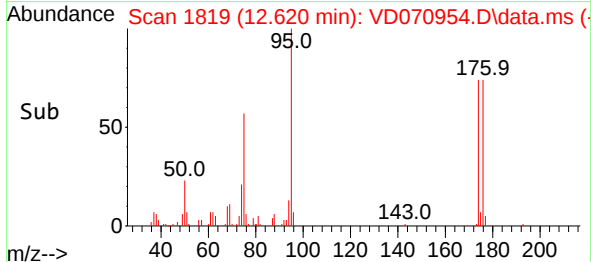
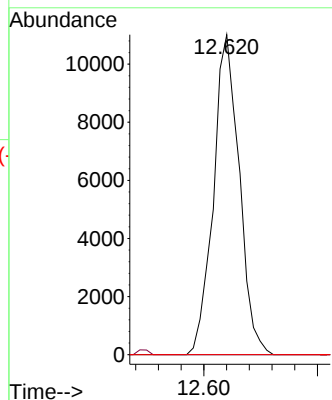


#81
trans-1,4-Dichloro-2-butene
Concen: 120.182 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.106 min
Lab File: VD070954.D
Acq: 09 Nov 2021 17:16

Instrument :
MSVOA_D
ClientSampleId :

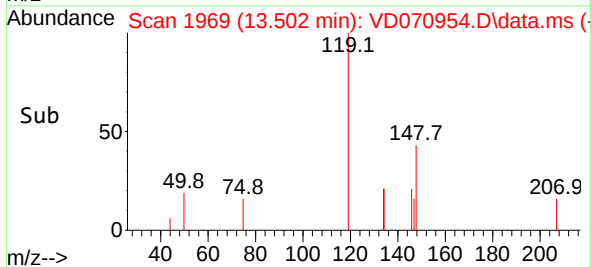
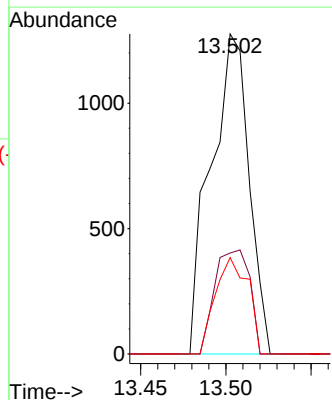
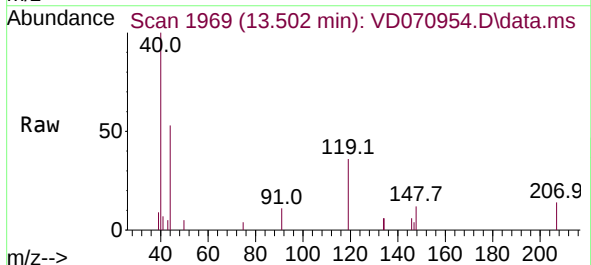


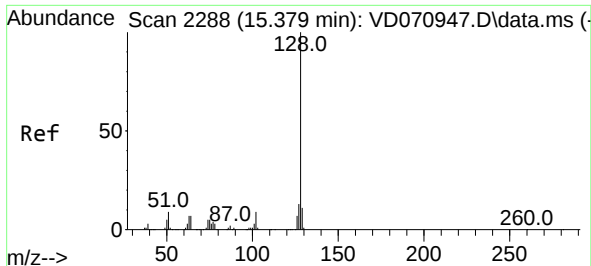
Tgt Ion: 75 Resp: 17367
Ion Ratio Lower Upper
75 100
53 0.0 62.6 94.0#
89 0.0 34.5 51.7#



#86
p-Isopropyltoluene
Concen: 1.034 ug/l
RT: 13.502 min Scan# 1969
Delta R.T. 0.000 min
Lab File: VD070954.D
Acq: 09 Nov 2021 17:16

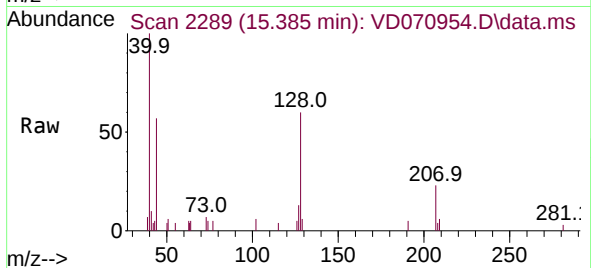
Tgt Ion: 119 Resp: 1994
Ion Ratio Lower Upper
119 100
134 29.8 13.0 38.9
91 25.7 11.4 34.2



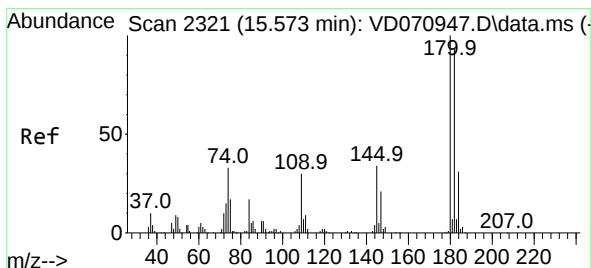
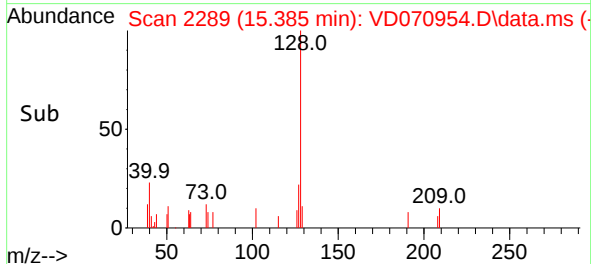
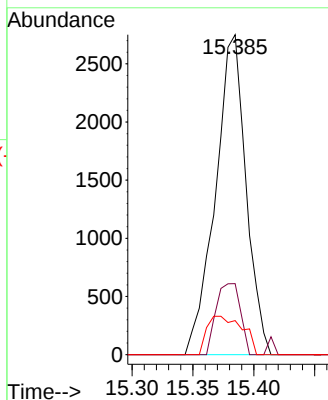


#95
Naphthalene
Concen: 4.833 ug/l
RT: 15.385 min Scan# 21
Delta R.T. 0.006 min
Lab File: VD070954.D
Acq: 09 Nov 2021 17:16

Instrument :
MSVOA_D
ClientSampleId :



Tgt Ion:128 Resp: 4815
Ion Ratio Lower Upper
128 100
127 17.5 10.7 16.1#
129 13.9 8.7 13.1#



#96
1,2,3-Trichlorobenzene
Concen: 1.548 ug/l
RT: 15.579 min Scan# 2322
Delta R.T. 0.006 min
Lab File: VD070954.D
Acq: 09 Nov 2021 17:16

Tgt Ion:180 Resp: 679
Ion Ratio Lower Upper
180 100
182 83.2 46.7 140.1
145 9.0 15.9 47.6#

