

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD110921\
 Data File : VD070956.D
 Acq On : 09 Nov 2021 18:13
 Operator : VA/SY
 Sample : M4540-01RE
 Misc : 5.03G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Nov 10 03:58:17 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)

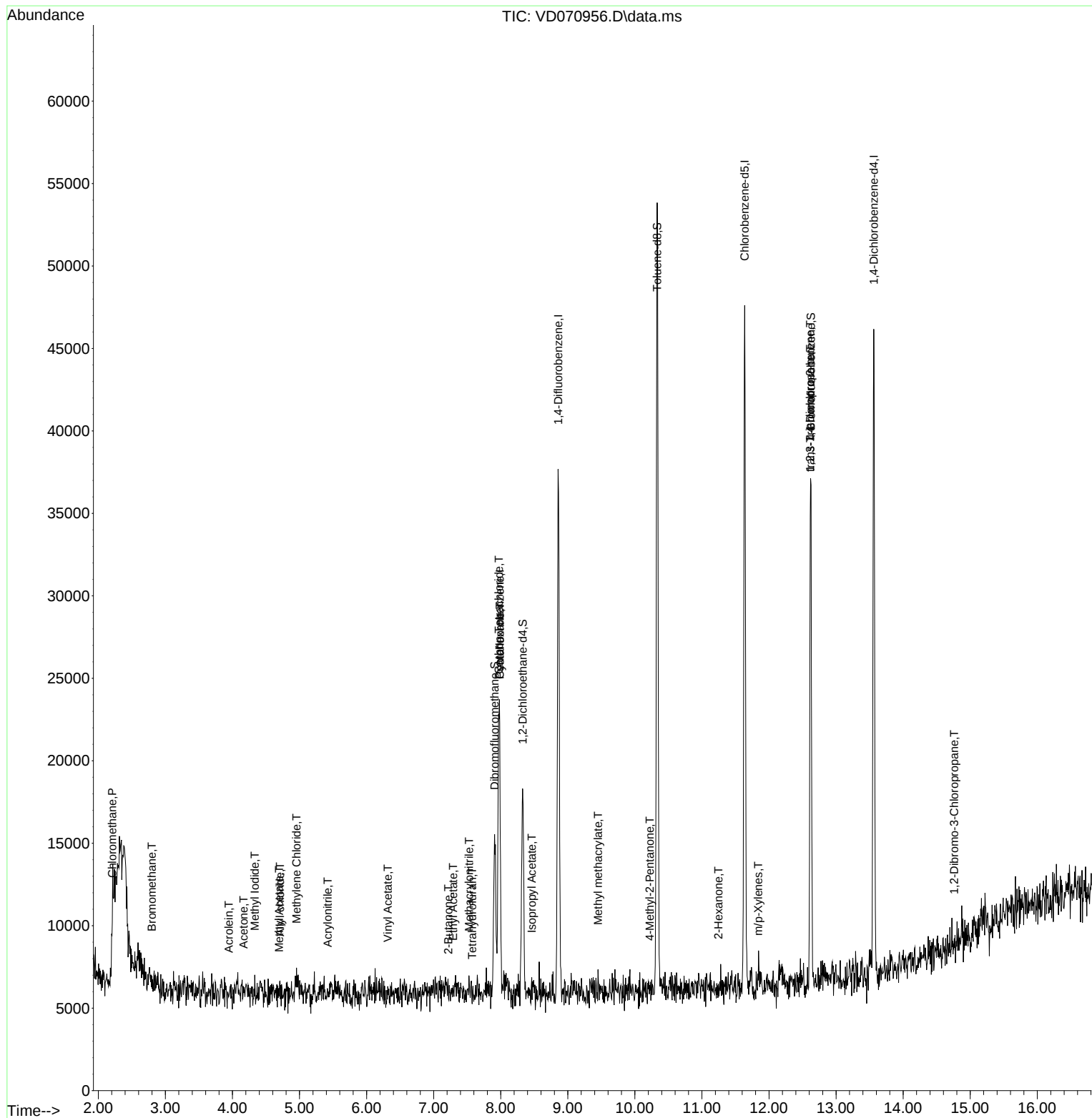
Internal Standards						
1) Pentafluorobenzene	7.985	168	13292	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.856	114	25545	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	22858	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	10318	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	9717	68.661	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 137.320%	
35) Dibromofluoromethane	7.909	113	6808	47.230	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 94.460%	
50) Toluene-d8	10.332	98	32334	57.278	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 114.560%	
62) 4-Bromofluorobenzene	12.626	95	10677	52.530	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 105.060%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.209	50	638	4.721	ug/l #	42
5) Bromomethane	2.797	94	490	5.532	ug/l	88
10) Methyl Iodide	4.332	142	72	6.433	ug/l #	40
13) Acrolein	3.944	56	66	15.858	ug/l #	1
14) Allyl chloride	4.709	41	317	1.206	ug/l #	65
15) Acrylonitrile	5.420	53	60	1.811	ug/l #	19
16) Acetone	4.168	43	579	33.746	ug/l #	40
18) Methyl Acetate	4.697	43	703	5.790	ug/l #	51
20) Methylene Chloride	4.956	84	932	5.414	ug/l #	87
23) Vinyl Acetate	6.315	43	538	22.749	ug/l #	72
25) 2-Butanone	7.220	43	537	30.354	ug/l #	45
29) Tetrahydrofuran	7.573	42	64	2.226	ug/l #	34
31) Cyclohexane	7.985	56	1093	3.756	ug/l #	78
37) Ethyl Acetate	7.291	43	613	5.891	ug/l #	66
38) Carbon Tetrachloride	7.973	117	1319	6.280	ug/l #	12
41) Methacrylonitrile	7.526	41	801	13.265	ug/l #	29
43) Isopropyl Acetate	8.461	43	290	1.317	ug/l #	47
48) Methyl methacrylate	9.450	41	238	2.203	ug/l #	10
51) 4-Methyl-2-Pentanone	10.220	43	729	6.828	ug/l #	34
59) 2-Hexanone	11.244	43	89	16.933	ug/l	68
68) m/p-Xylenes	11.838	106	495	1.715	ug/l	98
76) 1,2,3-Trichloropropane	12.614	75	5907	67.021	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.614	75	5907	123.796	ug/l #	18
92) 1,2-Dibromo-3-Chloropr...	14.761	75	70	3.336	ug/l #	4

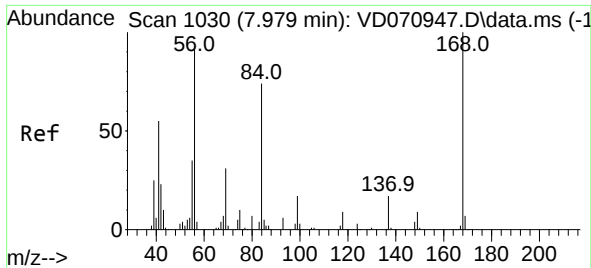
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Nov 10 03:55:51 2021
Response via : Initial Calibration

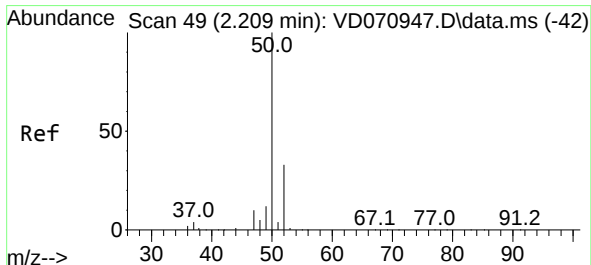
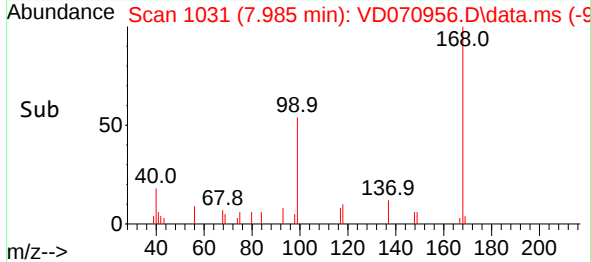
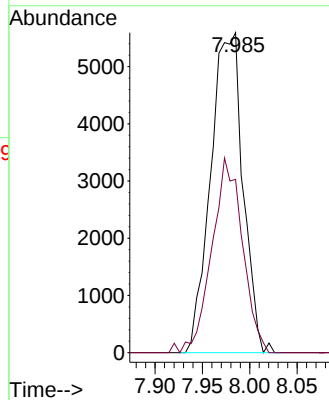
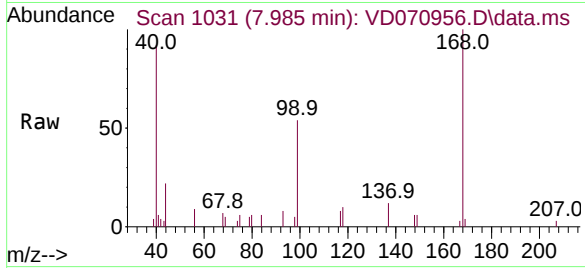




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.985 min Scan# 10
Delta R.T. 0.006 min
Lab File: VD070956.D
Acq: 09 Nov 2021 18:13

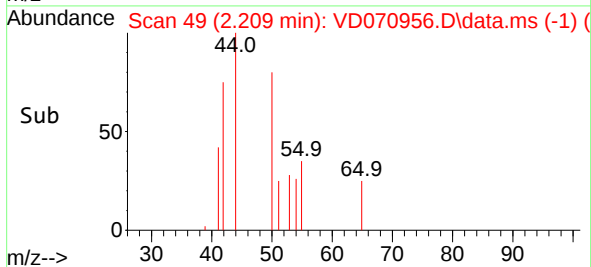
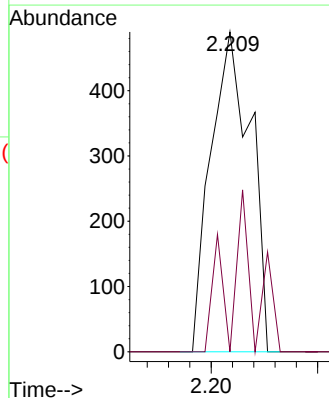
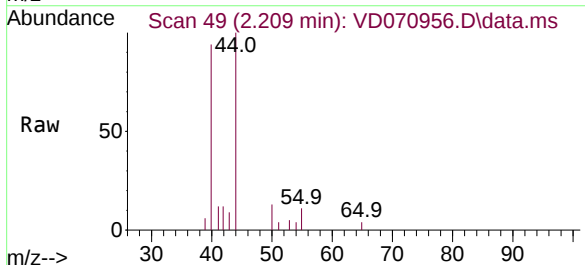
Instrument :
MSVOA_D
ClientSampleId :

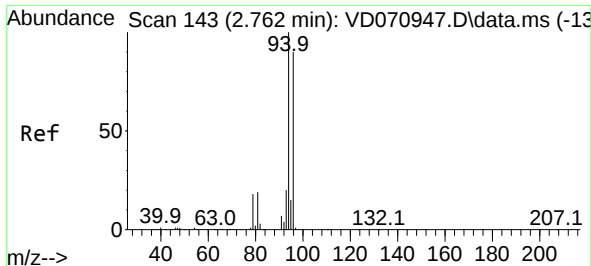
Tgt Ion:168 Resp: 13292
Ion Ratio Lower Upper
168 100
99 54.2 46.6 69.8



#3
Chloromethane
Concen: 4.721 ug/l
RT: 2.209 min Scan# 49
Delta R.T. -0.000 min
Lab File: VD070956.D
Acq: 09 Nov 2021 18:13

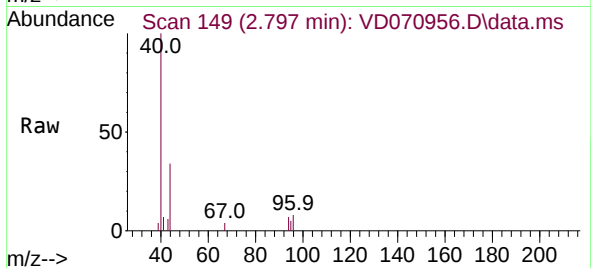
Tgt Ion: 50 Resp: 638
Ion Ratio Lower Upper
50 100
52 0.0 25.8 38.8#



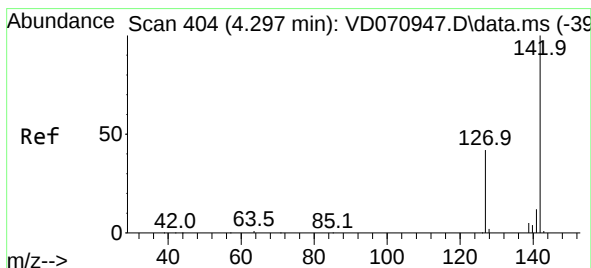
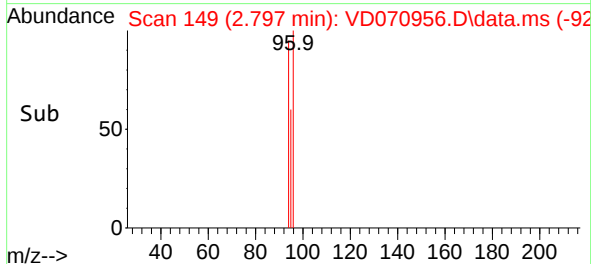
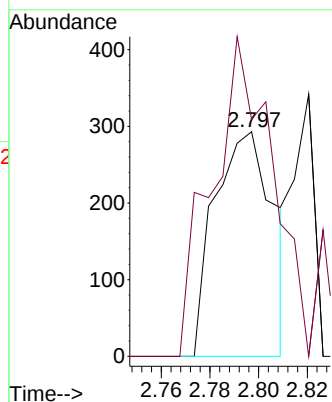


#5
Bromomethane
Concen: 5.532 ug/l
RT: 2.797 min Scan# 143
Delta R.T. 0.035 min
Lab File: VD070956.D
Acq: 09 Nov 2021 18:13

Instrument :
MSVOA_D
ClientSampleId :

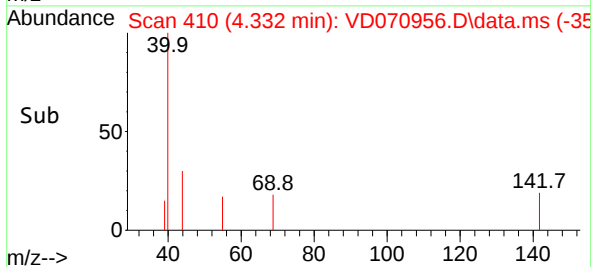
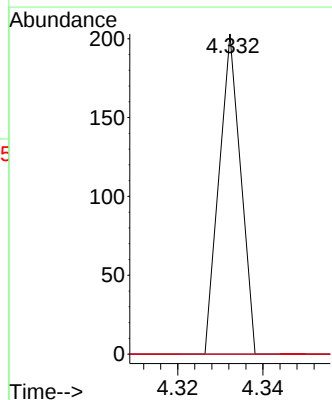
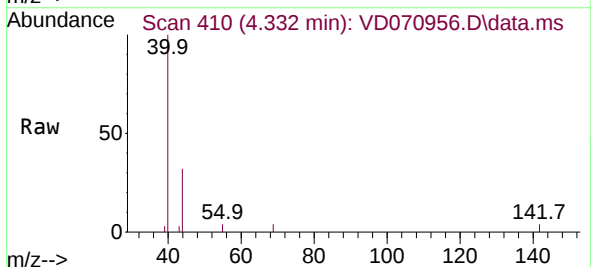


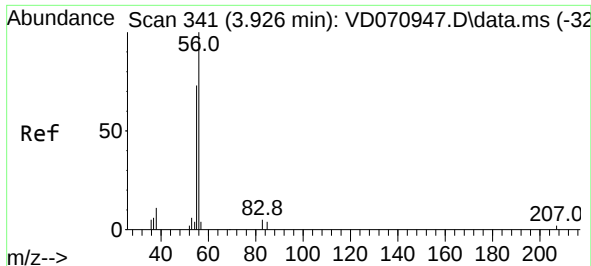
Tgt Ion: 94 Resp: 490
Ion Ratio Lower Upper
94 100
96 105.5 74.8 112.2



#10
Methyl Iodide
Concen: 6.433 ug/l
RT: 4.332 min Scan# 410
Delta R.T. 0.035 min
Lab File: VD070956.D
Acq: 09 Nov 2021 18:13

Tgt Ion: 142 Resp: 72
Ion Ratio Lower Upper
142 100
127 0.0 35.0 52.4#
141 0.0 12.0 18.0#

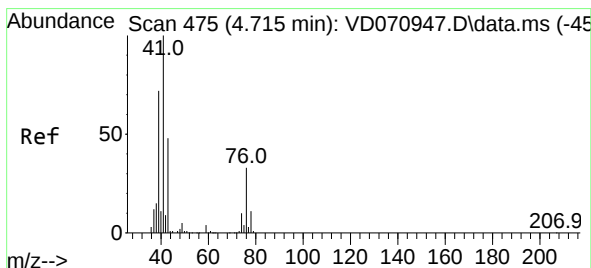
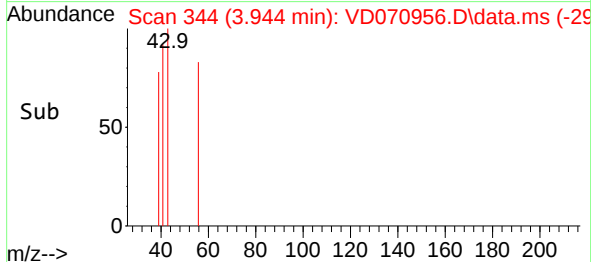
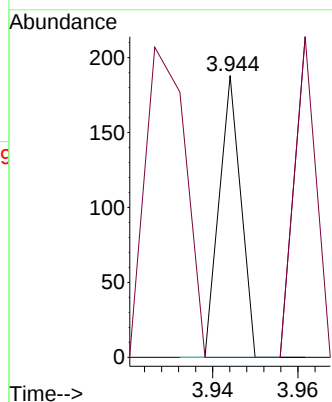
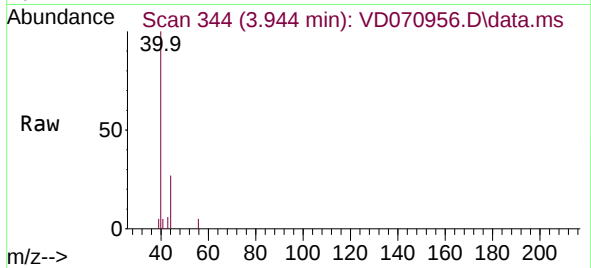




#13
Acrolein
Concen: 15.858 ug/l
RT: 3.944 min Scan# 341
Delta R.T. 0.018 min
Lab File: VD070956.D
Acq: 09 Nov 2021 18:13

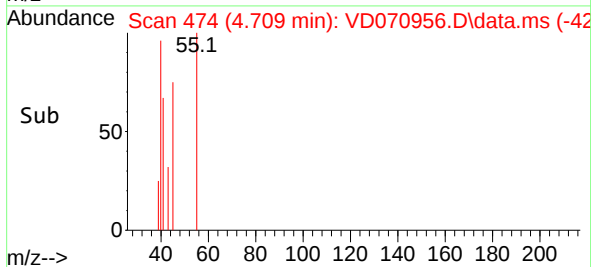
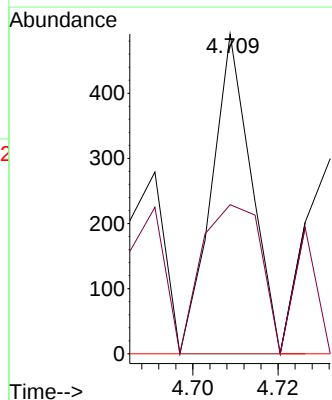
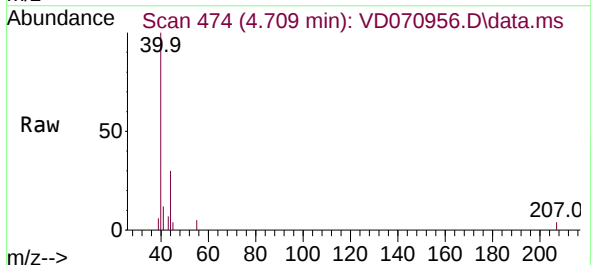
Instrument :
MSVOA_D
ClientSampleId :

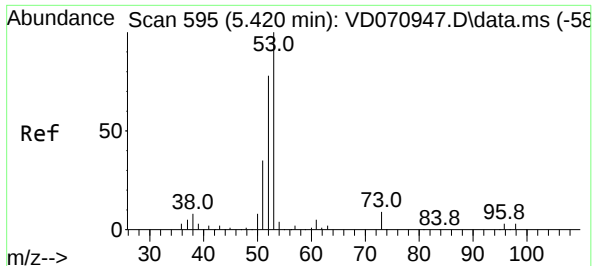
Tgt Ion: 56 Resp: 66
Ion Ratio Lower Upper
56 100
55 224.2 58.6 87.8#



#14
Allyl chloride
Concen: 1.206 ug/l
RT: 4.709 min Scan# 474
Delta R.T. -0.006 min
Lab File: VD070956.D
Acq: 09 Nov 2021 18:13

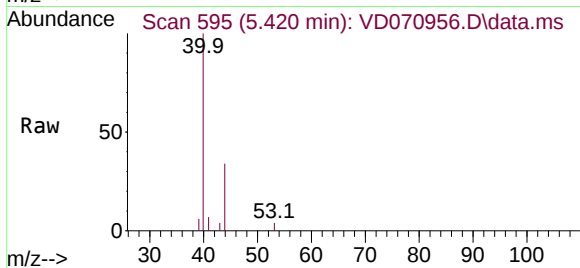
Tgt Ion: 41 Resp: 317
Ion Ratio Lower Upper
41 100
39 69.7 45.6 68.4#
76 0.0 30.2 45.4#



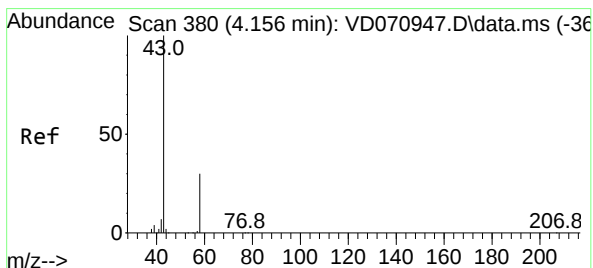
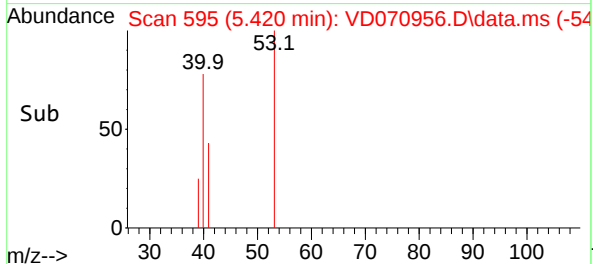
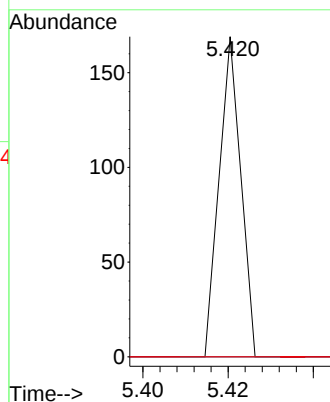


#15
Acrylonitrile
Concen: 1.811 ug/l
RT: 5.420 min Scan# 595
Delta R.T. 0.000 min
Lab File: VD070956.D
Acq: 09 Nov 2021 18:13

Instrument :
MSVOA_D
ClientSampleId :

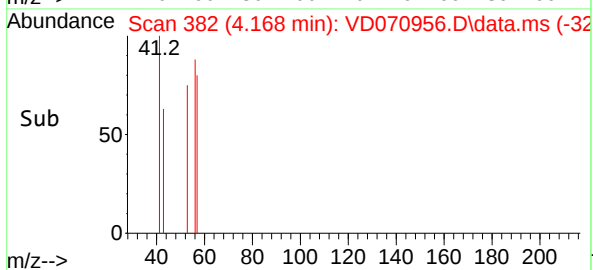
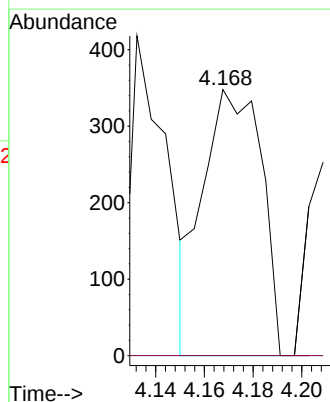
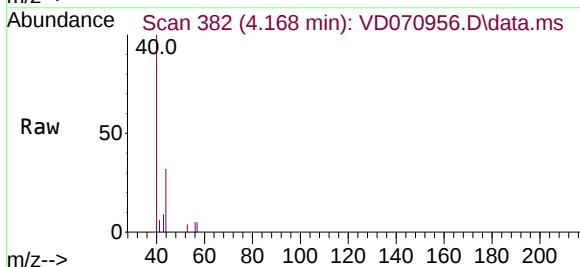


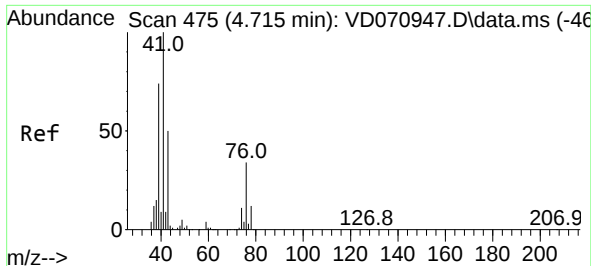
Tgt Ion: 53 Resp: 60
Ion Ratio Lower Upper
53 100
52 0.0 63.8 95.8#
51 0.0 28.5 42.7#



#16
Acetone
Concen: 33.746 ug/l
RT: 4.168 min Scan# 382
Delta R.T. 0.012 min
Lab File: VD070956.D
Acq: 09 Nov 2021 18:13

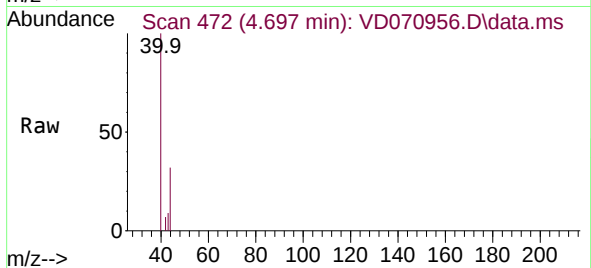
Tgt Ion: 43 Resp: 579
Ion Ratio Lower Upper
43 100
58 0.0 27.8 41.8#



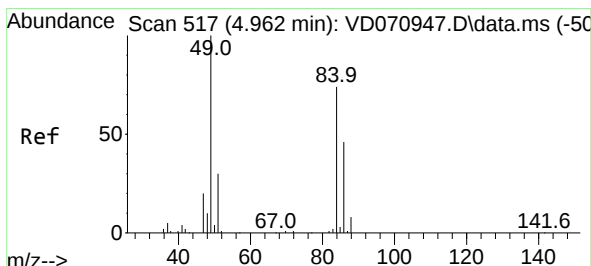
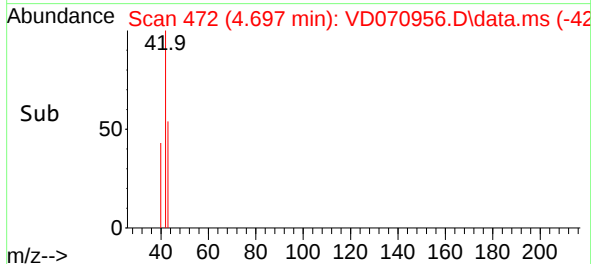
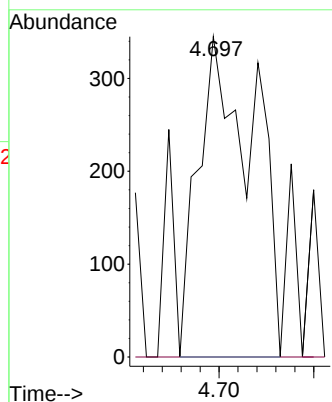


#18
Methyl Acetate
Concen: 5.790 ug/l
RT: 4.697 min Scan# 41
Delta R.T. -0.018 min
Lab File: VD070956.D
Acq: 09 Nov 2021 18:13

Instrument :
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ClientSampleId :

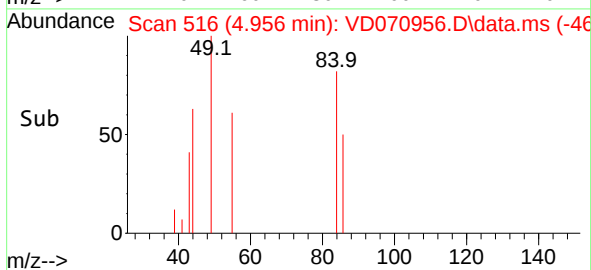
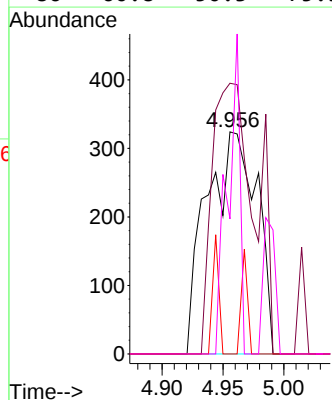
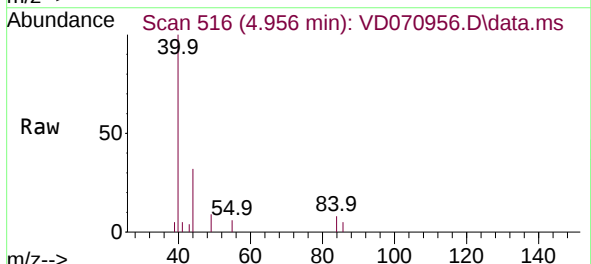


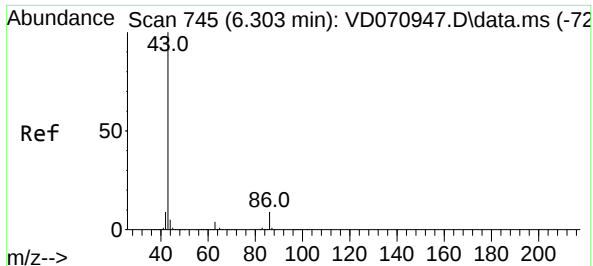
Tgt Ion: 43 Resp: 703
Ion Ratio Lower Upper
43 100
74 0.0 19.3 28.9#



#20
Methylene Chloride
Concen: 5.414 ug/l
RT: 4.956 min Scan# 516
Delta R.T. -0.006 min
Lab File: VD070956.D
Acq: 09 Nov 2021 18:13

Tgt Ion: 84 Resp: 932
Ion Ratio Lower Upper
84 100
49 121.9 95.8 143.6
51 0.0 30.9 46.3#
86 60.8 50.3 75.5

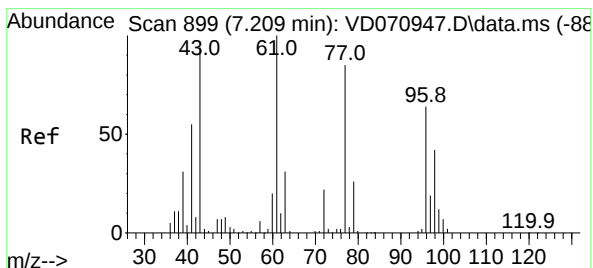
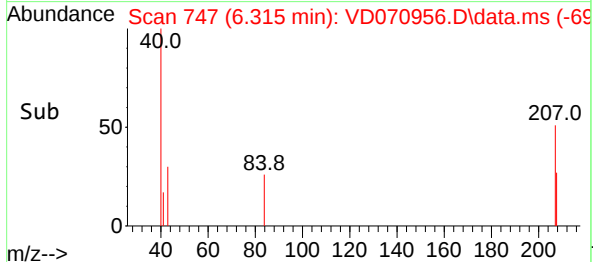
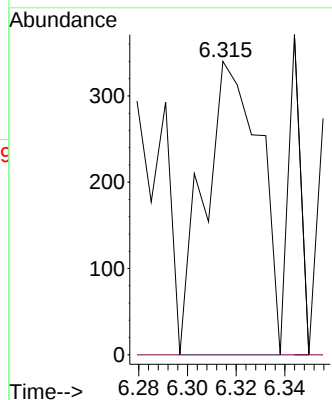
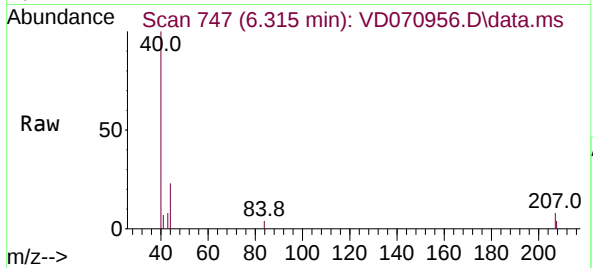




#23
 Vinyl Acetate
 Concen: 22.749 ug/l
 RT: 6.315 min Scan# 745
 Delta R.T. 0.012 min
 Lab File: VD070956.D
 Acq: 09 Nov 2021 18:13

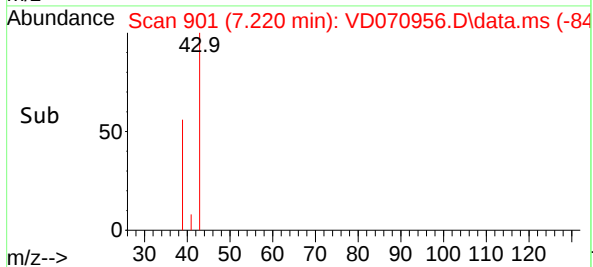
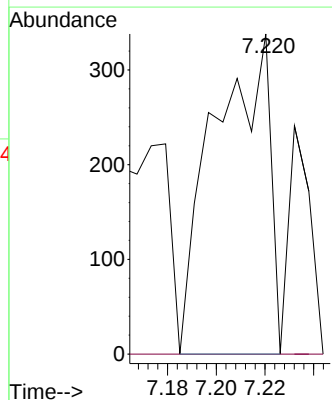
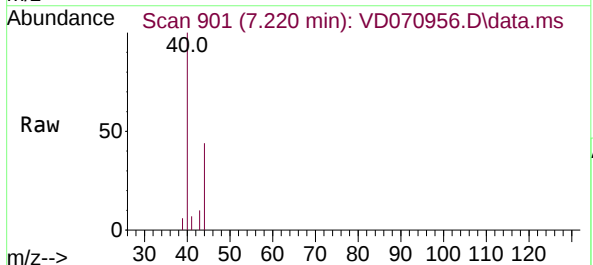
Instrument :
 MSVOA_D
 ClientSampleId :

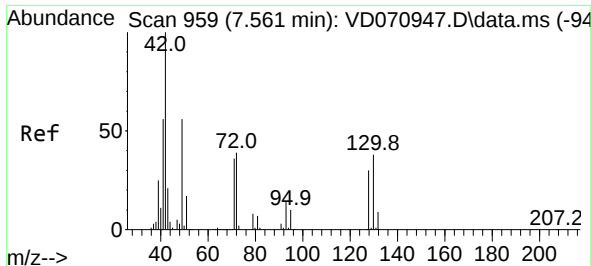
Tgt Ion: 43 Resp: 538
 Ion Ratio Lower Upper
 43 100
 86 0.0 8.2 12.4#



#25
 2-Butanone
 Concen: 30.354 ug/l
 RT: 7.220 min Scan# 901
 Delta R.T. 0.011 min
 Lab File: VD070956.D
 Acq: 09 Nov 2021 18:13

Tgt Ion: 43 Resp: 537
 Ion Ratio Lower Upper
 43 100
 72 0.0 23.8 35.6#





#29

Tetrahydrofuran

Concen: 2.226 ug/l

RT: 7.573 min Scan# 9

Delta R.T. 0.012 min

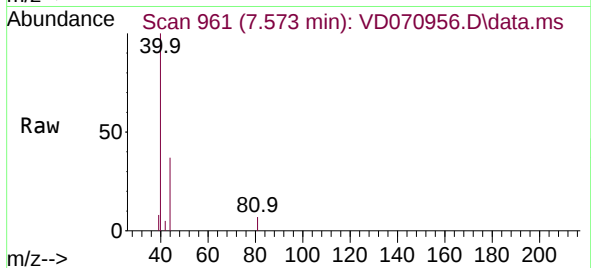
Lab File: VD070956.D

Acq: 09 Nov 2021 18:13

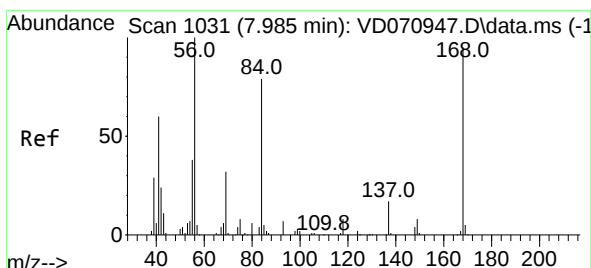
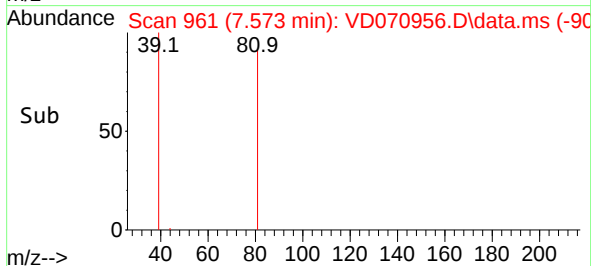
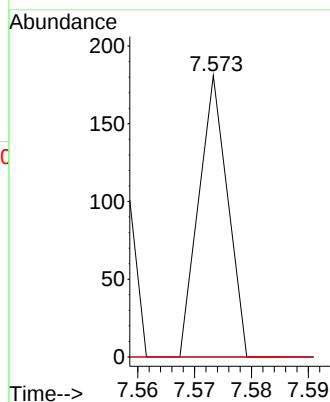
Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion:	42	Resp:	64
Ion	Ratio	Lower	Upper
42	100		
72	0.0	33.7	50.5#
71	0.0	32.7	49.1#



#31

Cyclohexane

Concen: 3.756 ug/l

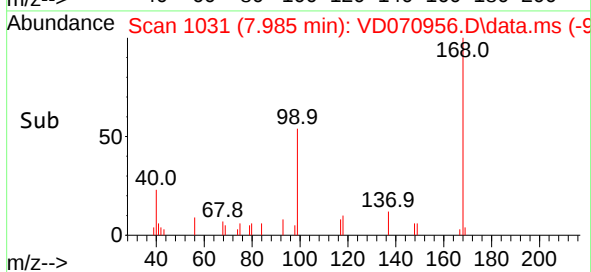
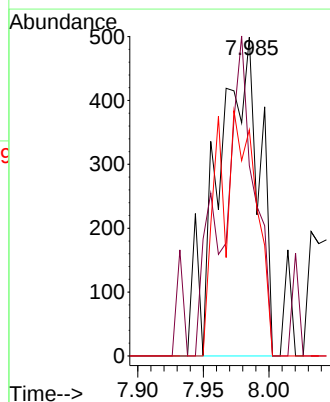
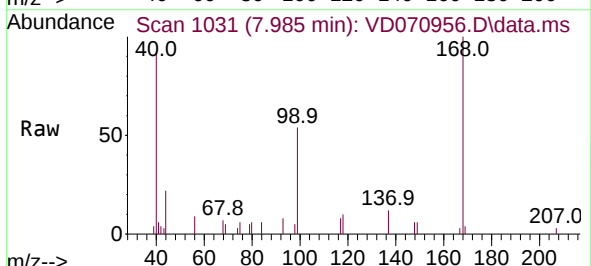
RT: 7.985 min Scan# 1031

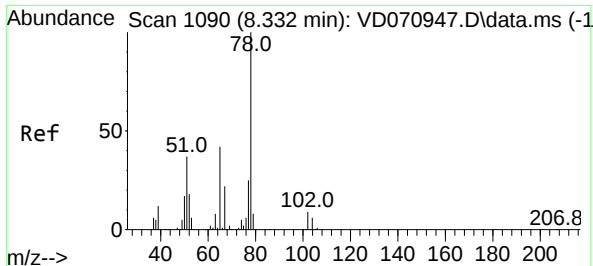
Delta R.T. 0.000 min

Lab File: VD070956.D

Acq: 09 Nov 2021 18:13

Tgt Ion:	56	Resp:	1093
Ion	Ratio	Lower	Upper
56	100		
69	59.7	25.9	38.9#
84	70.9	64.3	96.5





#33

1,2-Dichloroethane-d4

Concen: 68.661 ug/l

RT: 8.326 min Scan# 1179

Delta R.T. -0.006 min

Lab File: VD070956.D

Acq: 09 Nov 2021 18:13

Instrument :

MSVOA_D

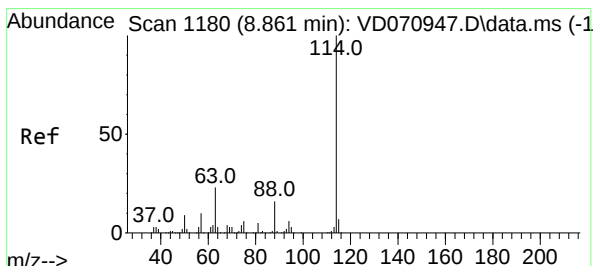
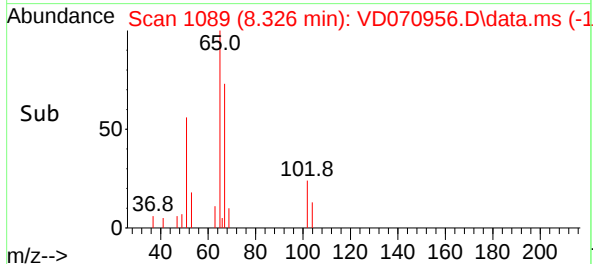
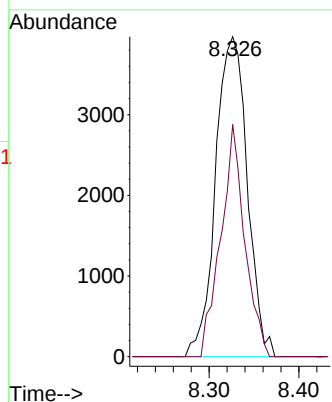
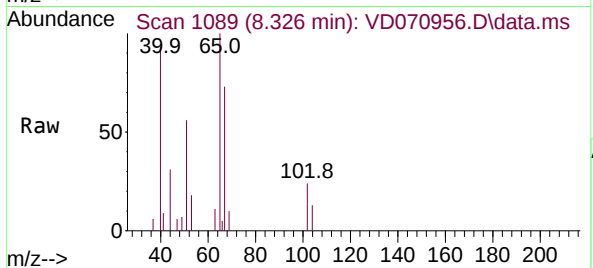
ClientSampleId :

Tgt Ion: 65 Resp: 9717

Ion Ratio Lower Upper

65 100

67 54.9 0.0 112.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.856 min Scan# 1179

Delta R.T. -0.005 min

Lab File: VD070956.D

Acq: 09 Nov 2021 18:13

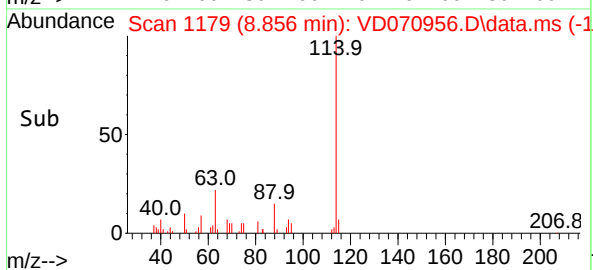
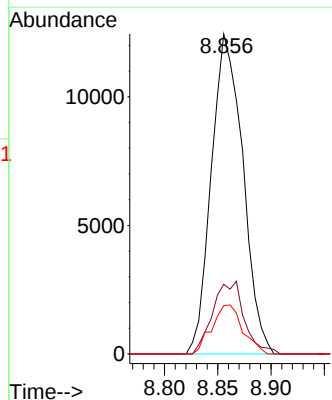
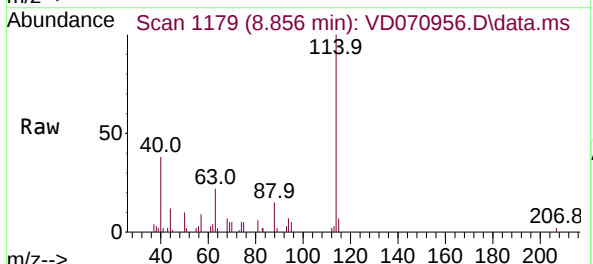
Tgt Ion: 114 Resp: 25545

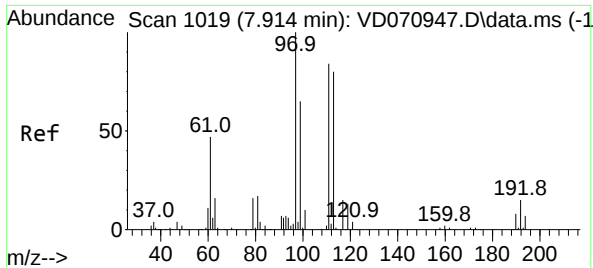
Ion Ratio Lower Upper

114 100

63 21.8 0.0 41.8

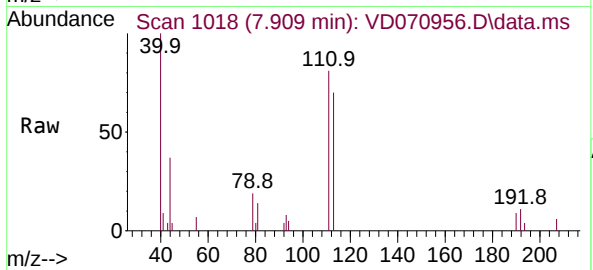
88 15.1 0.0 32.8



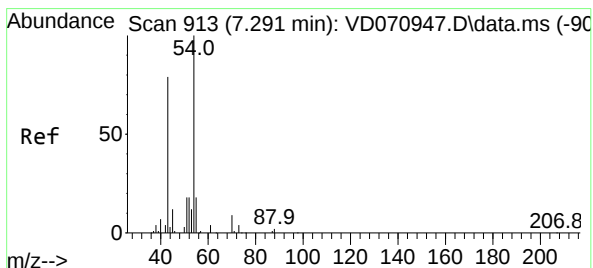
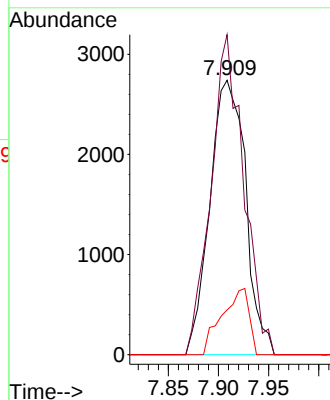
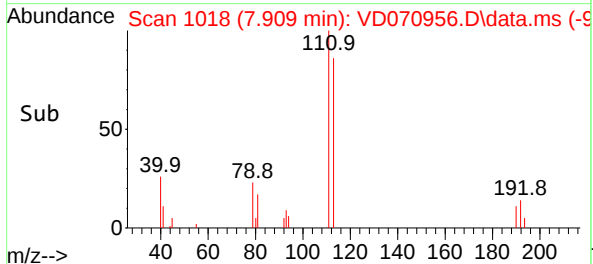


#35
Dibromofluoromethane
Concen: 47.230 ug/l
RT: 7.909 min Scan# 1019
Delta R.T. -0.005 min
Lab File: VD070956.D
Acq: 09 Nov 2021 18:13

Instrument :
MSVOA_D
ClientSampleId :

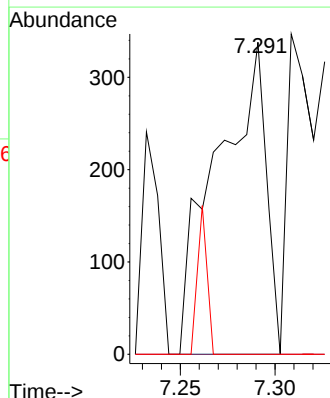
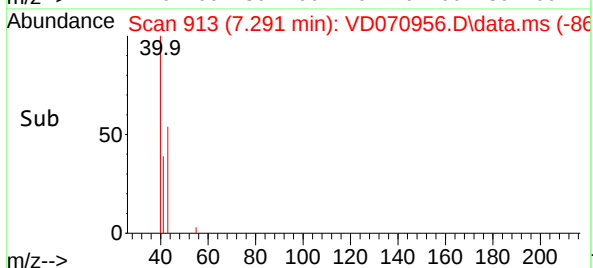
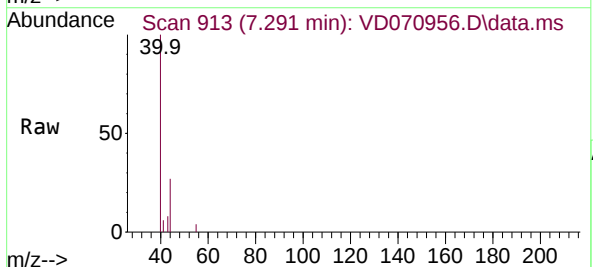


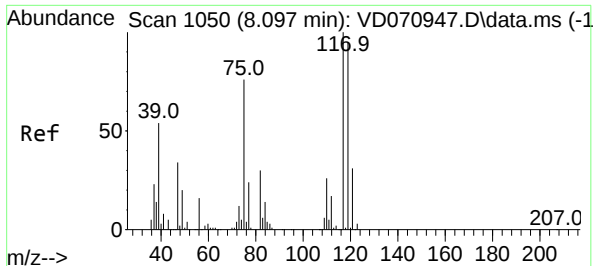
Tgt Ion:113 Resp: 6808
Ion Ratio Lower Upper
113 100
111 106.4 82.0 123.0
192 18.3 15.2 22.8



#37
Ethyl Acetate
Concen: 5.891 ug/l
RT: 7.291 min Scan# 913
Delta R.T. -0.000 min
Lab File: VD070956.D
Acq: 09 Nov 2021 18:13

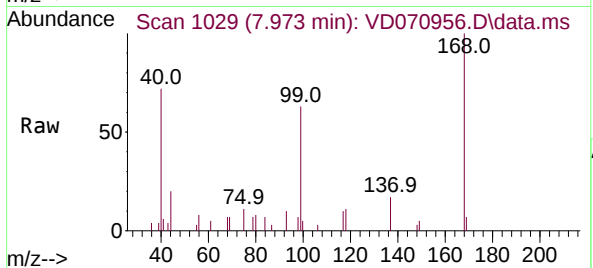
Tgt Ion: 43 Resp: 613
Ion Ratio Lower Upper
43 100
61 0.0 13.0 19.6#
70 0.0 8.7 13.1#



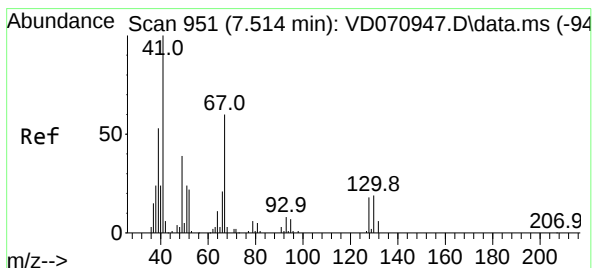
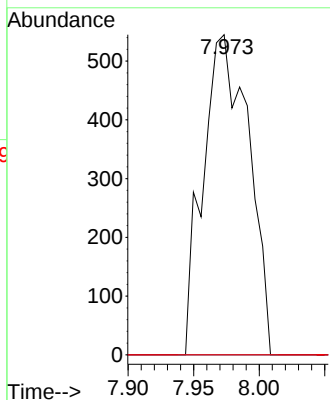
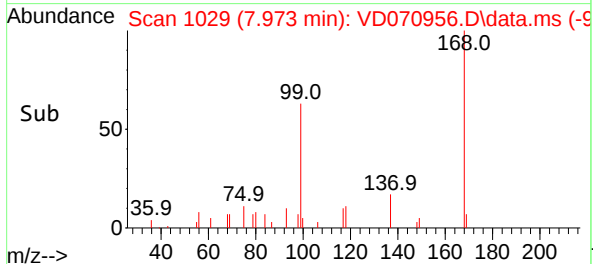


#38
Carbon Tetrachloride
Concen: 6.280 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.124 min
Lab File: VD070956.D
Acq: 09 Nov 2021 18:13

Instrument :
MSVOA_D
ClientSampleId :

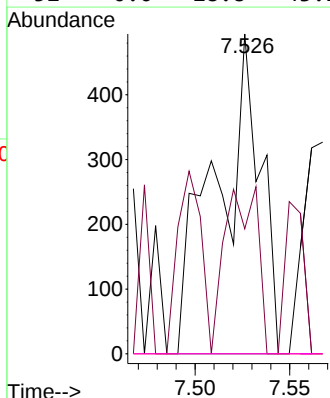
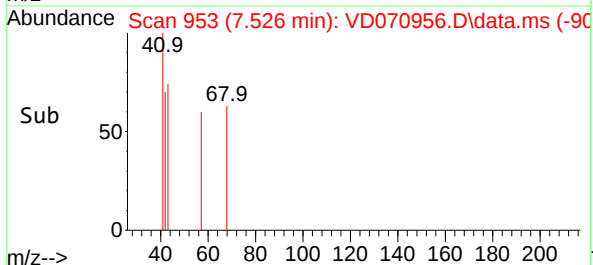
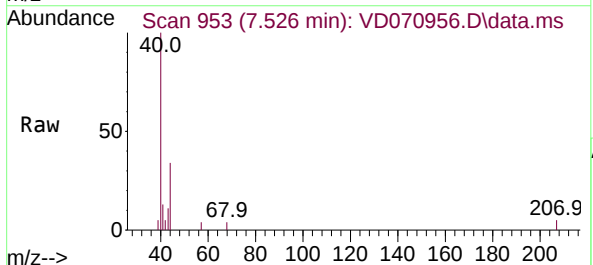


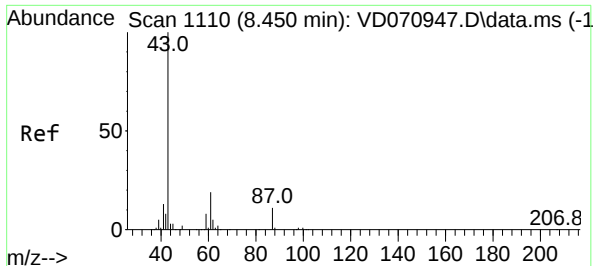
Tgt Ion:117 Resp: 1319
Ion Ratio Lower Upper
117 100
119 0.0 75.8 113.6#
121 0.0 23.6 35.4#



#41
Methacrylonitrile
Concen: 13.265 ug/l
RT: 7.526 min Scan# 953
Delta R.T. 0.012 min
Lab File: VD070956.D
Acq: 09 Nov 2021 18:13

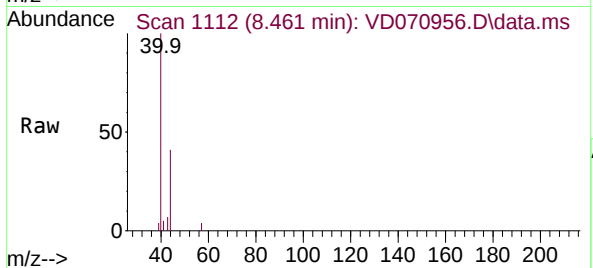
Tgt Ion: 41 Resp: 801
Ion Ratio Lower Upper
41 100
39 38.6 60.2 90.4#
67 0.0 74.8 112.2#
52 0.0 28.8 43.2#



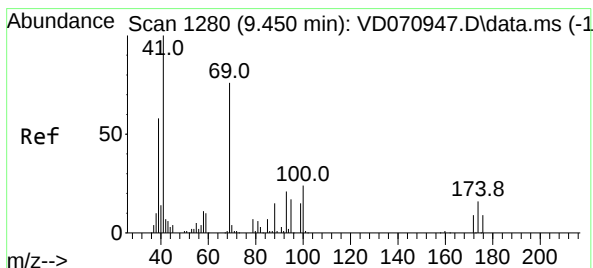
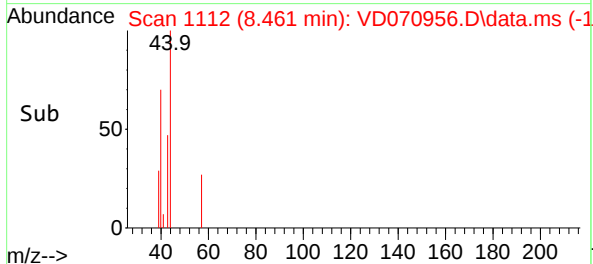
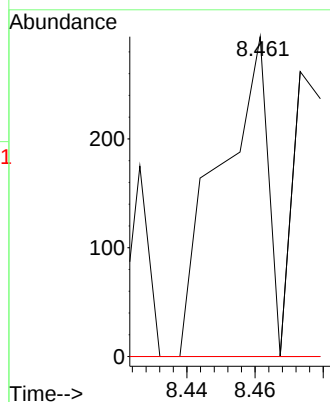


#43
Isopropyl Acetate
Concen: 1.317 ug/l
RT: 8.461 min Scan# 1112
Delta R.T. 0.011 min
Lab File: VD070956.D
Acq: 09 Nov 2021 18:13

Instrument :
MSVOA_D
ClientSampleId :

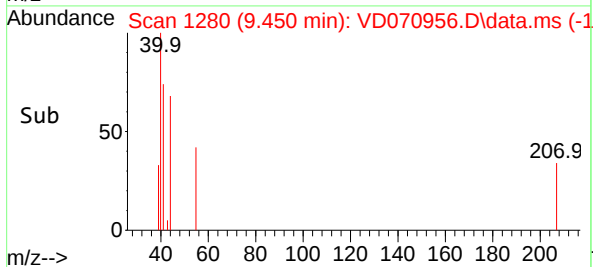
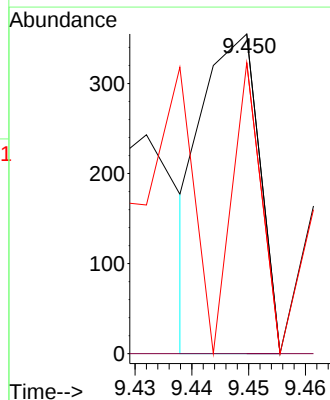
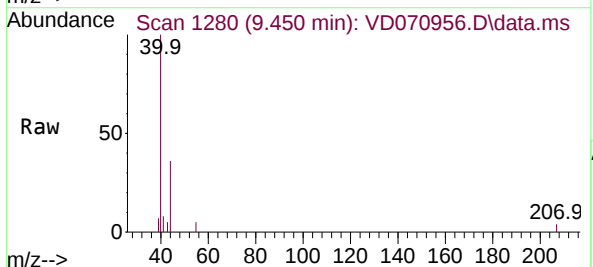


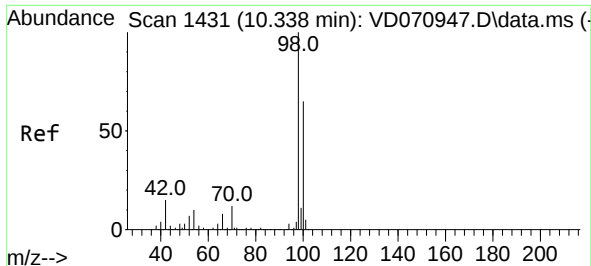
Tgt Ion: 43 Resp: 290
Ion Ratio Lower Upper
43 100
61 0.0 28.2 42.4#
87 0.0 10.7 16.1#



#48
Methyl methacrylate
Concen: 2.203 ug/l
RT: 9.450 min Scan# 1280
Delta R.T. -0.000 min
Lab File: VD070956.D
Acq: 09 Nov 2021 18:13

Tgt Ion: 41 Resp: 238
Ion Ratio Lower Upper
41 100
69 0.0 69.8 104.6#
39 97.5 35.6 53.4#

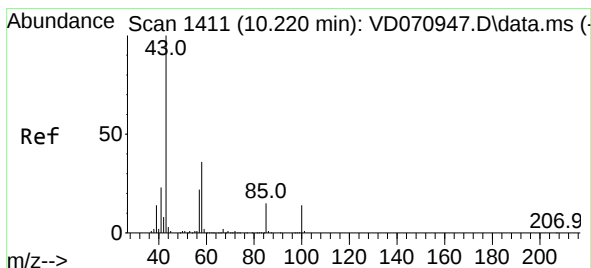
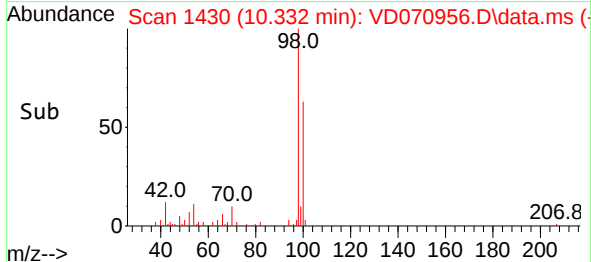
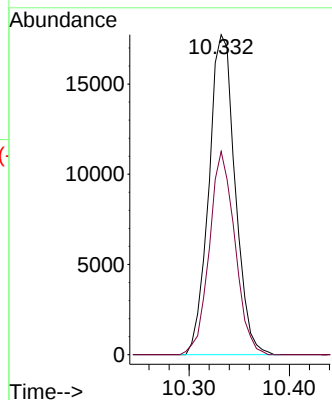
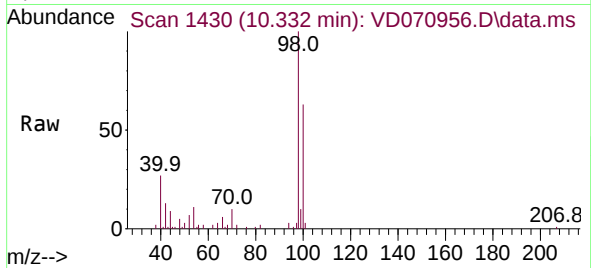




#50
Toluene-d8
Concen: 57.278 ug/l
RT: 10.332 min Scan# 1430
Delta R.T. -0.006 min
Lab File: VD070956.D
Acq: 09 Nov 2021 18:13

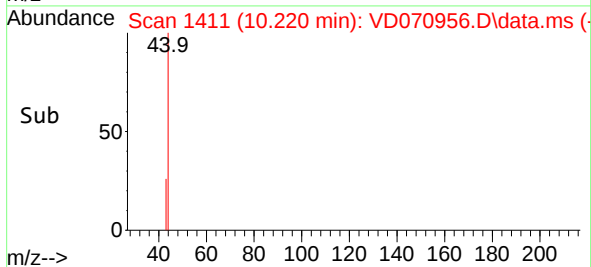
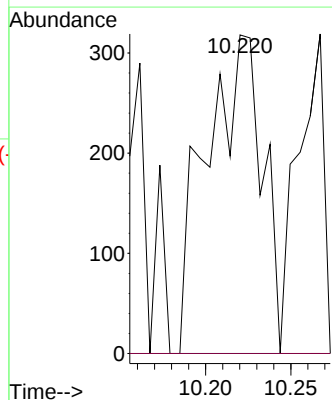
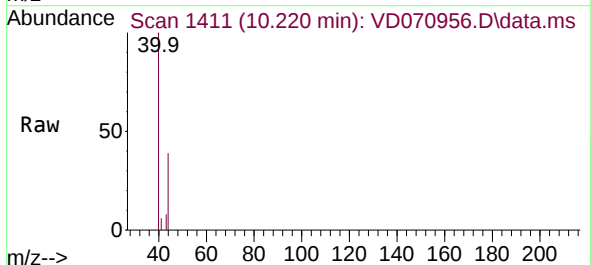
Instrument :
MSVOA_D
ClientSampleId :

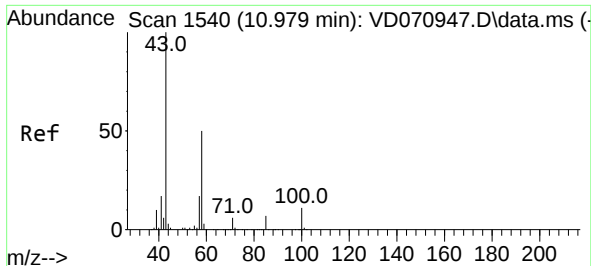
Tgt Ion: 98 Resp: 32334
Ion Ratio Lower Upper
98 100
100 61.7 51.8 77.6



#51
4-Methyl-2-Pentanone
Concen: 6.828 ug/l
RT: 10.220 min Scan# 1411
Delta R.T. 0.000 min
Lab File: VD070956.D
Acq: 09 Nov 2021 18:13

Tgt Ion: 43 Resp: 729
Ion Ratio Lower Upper
43 100
58 0.0 33.1 49.7#

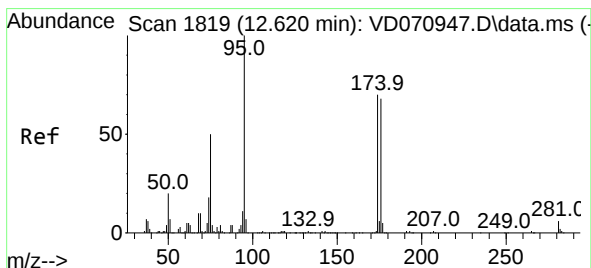
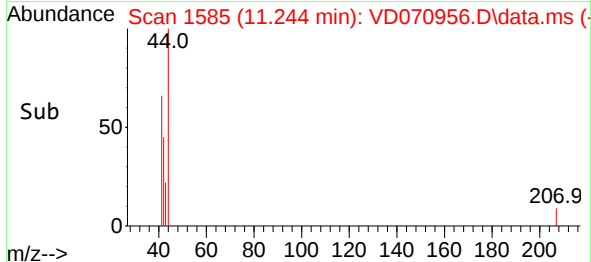
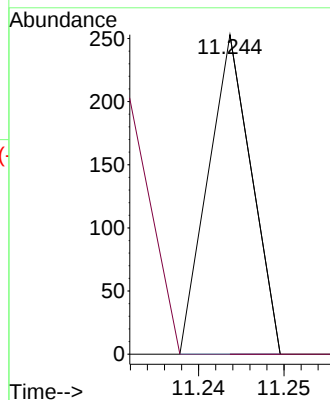
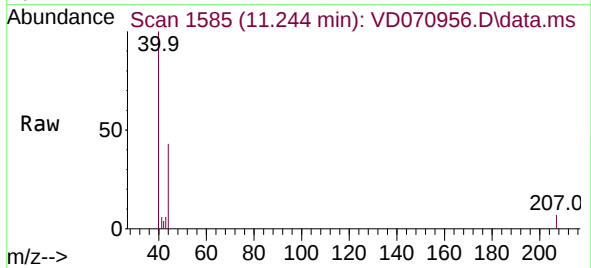




#59
2-Hexanone
Concen: 16.933 ug/l
RT: 11.244 min Scan# 11
Delta R.T. 0.265 min
Lab File: VD070956.D
Acq: 09 Nov 2021 18:13

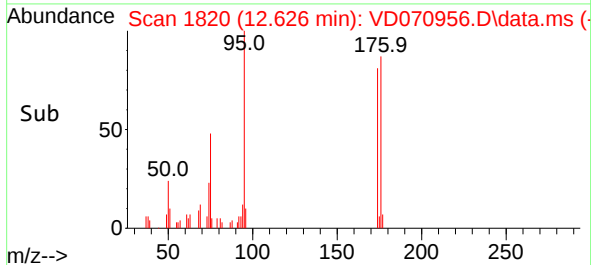
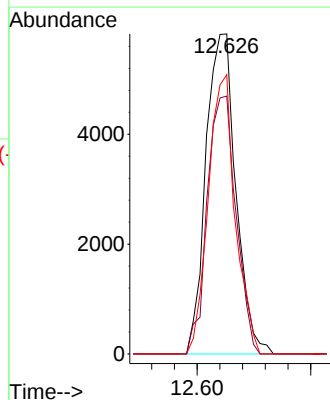
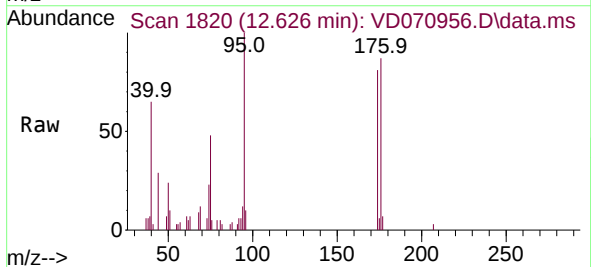
Instrument :
MSVOA_D
ClientSampleId :

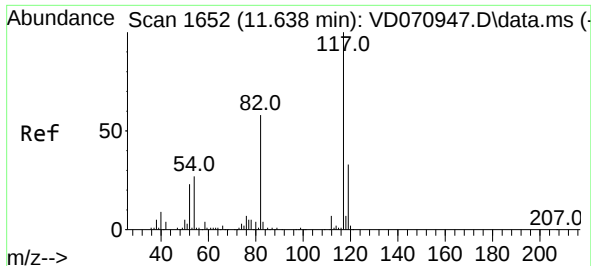
Tgt Ion: 43 Resp: 89
Ion Ratio Lower Upper
43 100
58 80.9 28.7 86.1



#62
4-Bromofluorobenzene
Concen: 52.530 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. 0.006 min
Lab File: VD070956.D
Acq: 09 Nov 2021 18:13

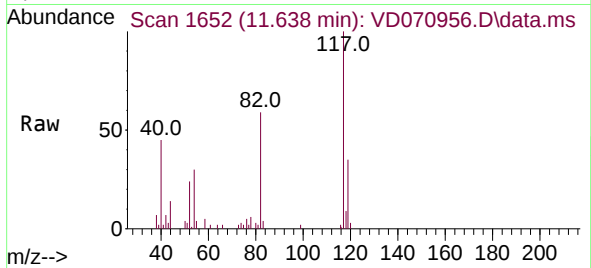
Tgt Ion: 95 Resp: 10677
Ion Ratio Lower Upper
95 100
174 77.6 0.0 159.4
176 78.5 0.0 154.0



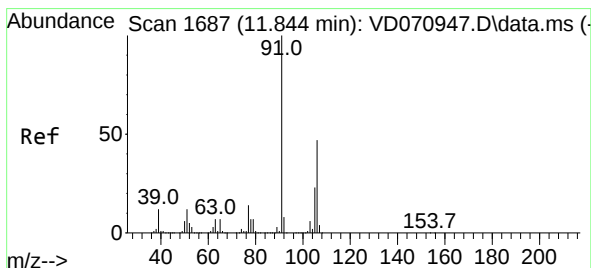
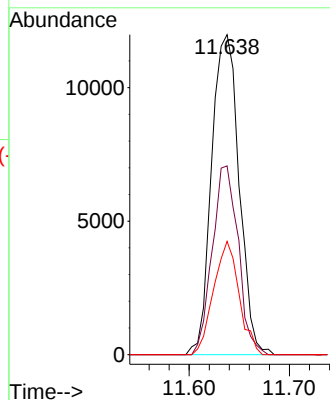
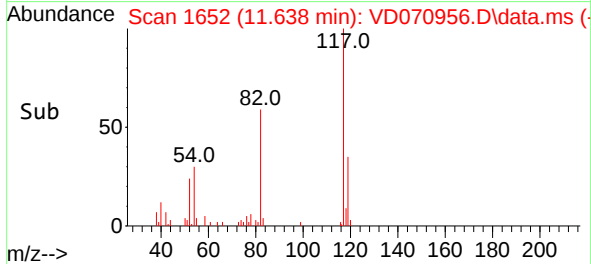


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. -0.000 min
Lab File: VD070956.D
Acq: 09 Nov 2021 18:13

Instrument :
MSVOA_D
ClientSampleId :

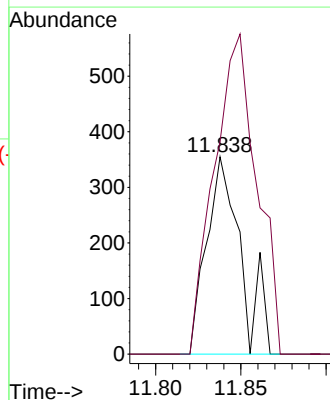
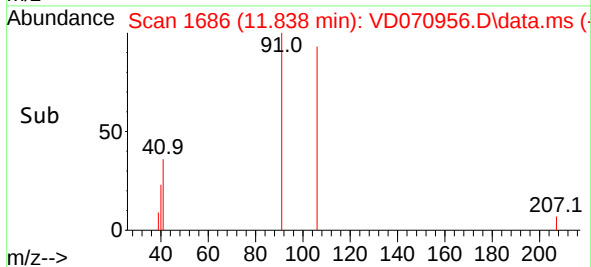
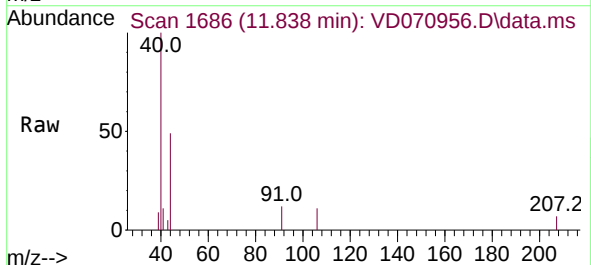


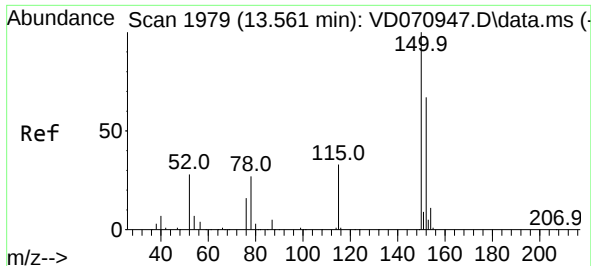
Tgt Ion:117 Resp: 22858
Ion Ratio Lower Upper
117 100
82 59.0 44.7 67.1
119 35.4 26.2 39.4



#68
m/p-Xylenes
Concen: 1.715 ug/l
RT: 11.838 min Scan# 1686
Delta R.T. -0.006 min
Lab File: VD070956.D
Acq: 09 Nov 2021 18:13

Tgt Ion:106 Resp: 495
Ion Ratio Lower Upper
106 100
91 202.4 160.1 240.1

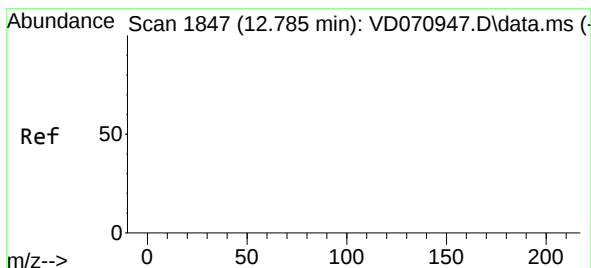
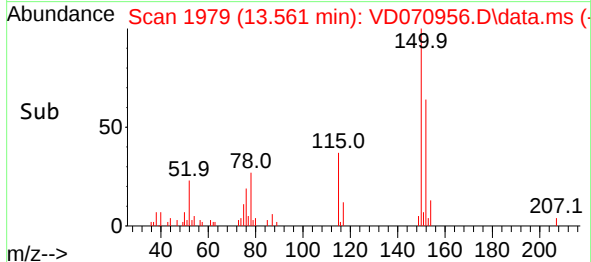
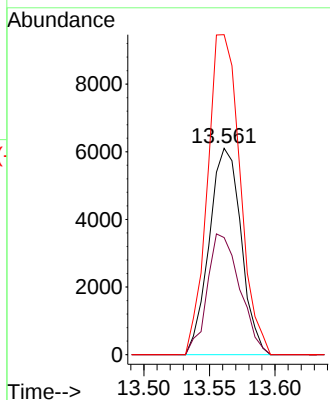
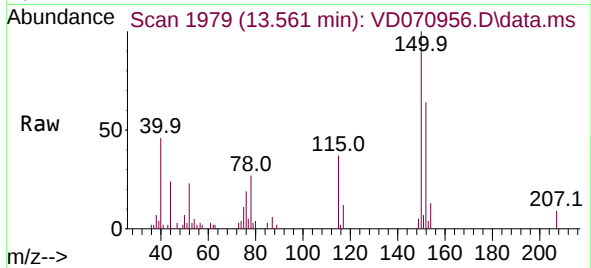




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.561 min Scan# 1979
 Delta R.T. 0.000 min
 Lab File: VD070956.D
 Acq: 09 Nov 2021 18:13

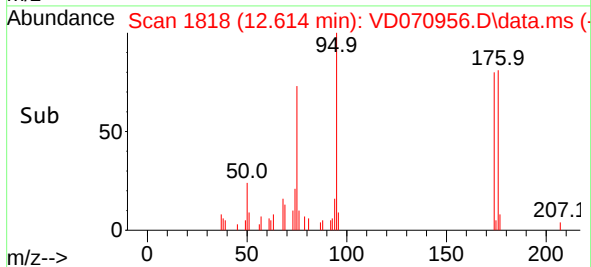
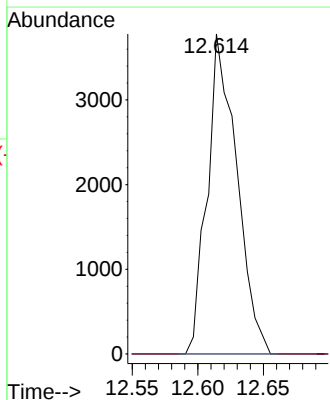
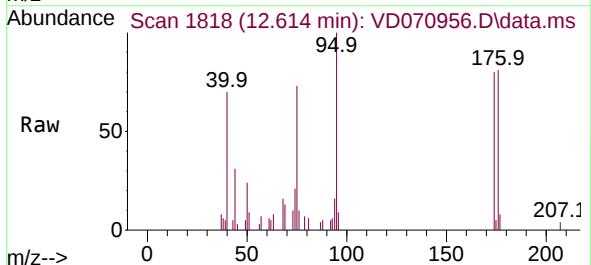
Instrument :
 MSVOA_D
 ClientSampleId :

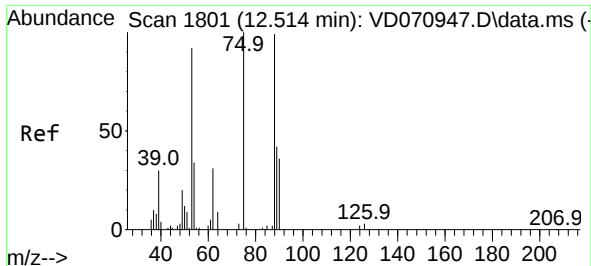
Tgt Ion:152 Resp: 10318
 Ion Ratio Lower Upper
 152 100
 115 59.8 29.8 89.3
 150 158.2 0.0 349.2



#76
 1,2,3-Trichloropropane
 Concen: 67.021 ug/l
 RT: 12.614 min Scan# 1818
 Delta R.T. -0.171 min
 Lab File: VD070956.D
 Acq: 09 Nov 2021 18:13

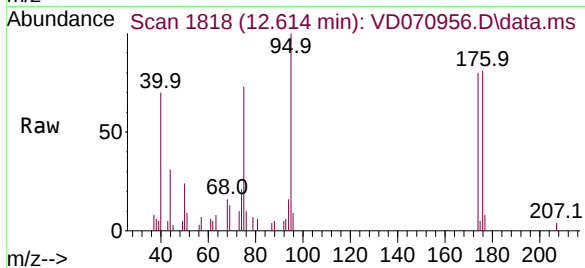
Tgt Ion: 75 Resp: 5907
 Ion Ratio Lower Upper
 75 100
 77 0.0 158.4 475.3#



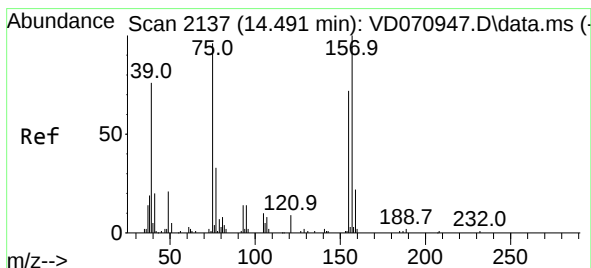
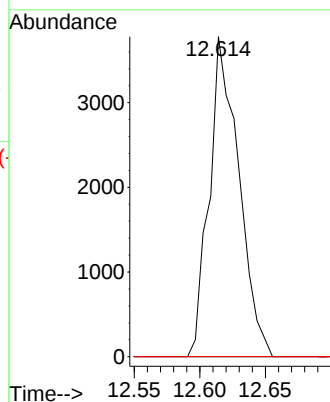
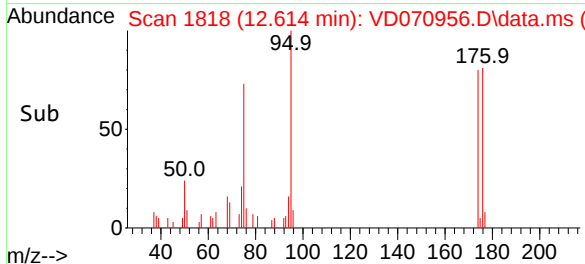


#81
trans-1,4-Dichloro-2-butene
Concen: 123.796 ug/l
RT: 12.614 min Scan# 1818
Delta R.T. 0.100 min
Lab File: VD070956.D
Acq: 09 Nov 2021 18:13

Instrument :
MSVOA_D
ClientSampleId :



Tgt Ion: 75 Resp: 5907
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: 3.336 ug/l
RT: 14.761 min Scan# 2183
Delta R.T. 0.270 min
Lab File: VD070956.D
Acq: 09 Nov 2021 18:13

Tgt Ion: 75 Resp: 70
Ion Ratio Lower Upper
75 100
155 0.0 40.0 120.0#
157 0.0 49.8 149.3#

