

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD110921\
 Data File : VD070959.D
 Acq On : 09 Nov 2021 19:38
 Operator : VA/SY
 Sample : M4540-07
 Misc : 5.04G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Nov 10 03:58:53 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)

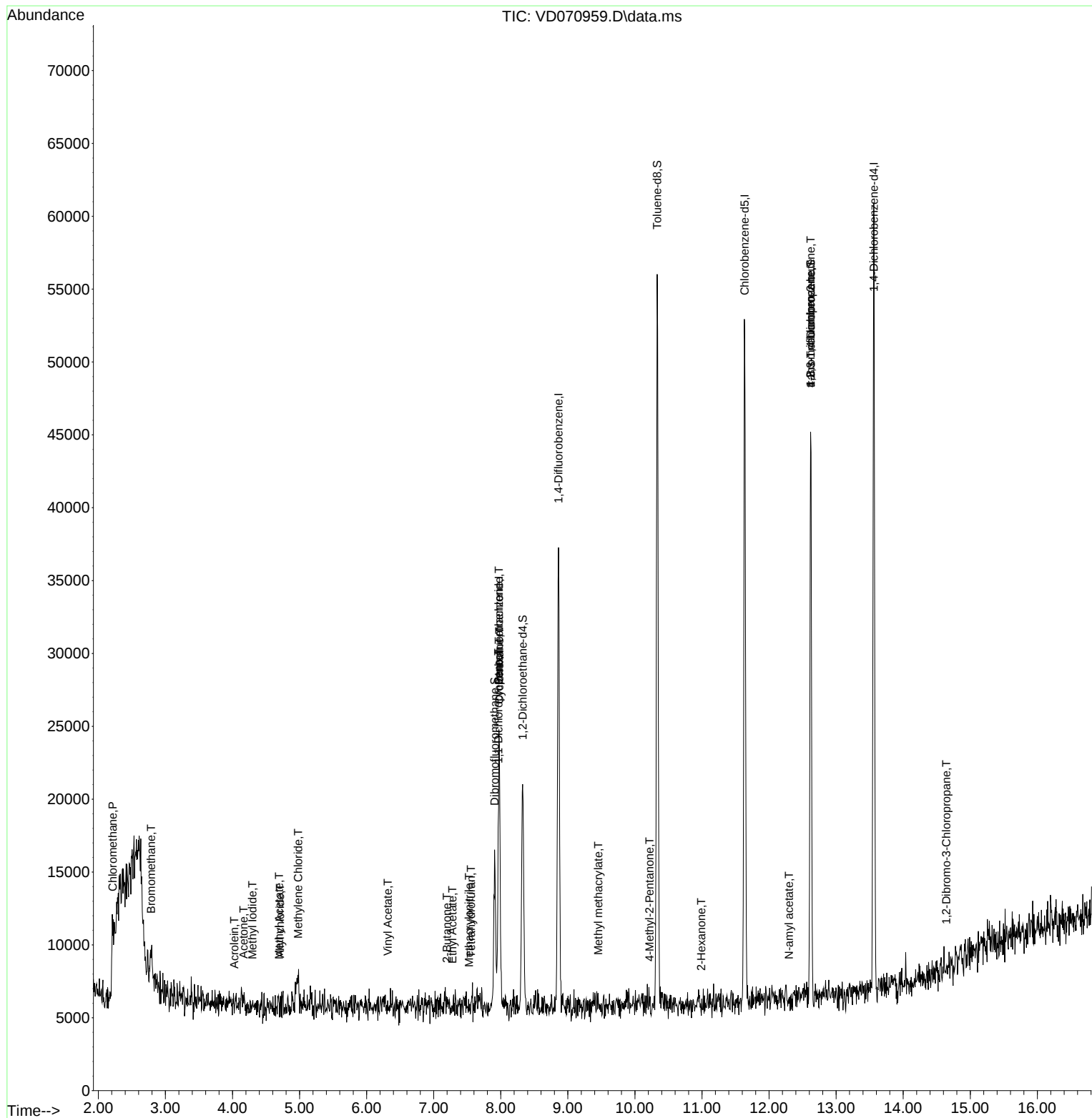
Internal Standards						
1) Pentafluorobenzene	7.973	168	12968	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	25974	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.637	117	26238	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	13350	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	12042	87.216	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 174.440%#			
35) Dibromofluoromethane	7.908	113	6679	45.570	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 91.140%			
50) Toluene-d8	10.332	98	31345	54.609	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 109.220%			
62) 4-Bromofluorobenzene	12.620	95	13116	63.463	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 126.920%			
Target Compounds						Qvalue
3) Chloromethane	2.214	50	849	6.440	ug/l	89
5) Bromomethane	2.785	94	1151	13.318	ug/l #	80
10) Methyl Iodide	4.297	142	266	7.577	ug/l #	65
13) Acrolein	4.026	56	61	14.734	ug/l #	10
14) Allyl chloride	4.708	41	293	1.142	ug/l #	69
16) Acetone	4.167	43	641	35.626	ug/l #	40
18) Methyl Acetate	4.697	43	210	1.773	ug/l #	51
20) Methylene Chloride	4.979	84	1293	7.879	ug/l #	46
23) Vinyl Acetate	6.314	43	638	23.130	ug/l #	72
25) 2-Butanone	7.197	43	138	22.998	ug/l #	45
29) Tetrahydrofuran	7.555	42	65	2.317	ug/l #	34
31) Cyclohexane	7.979	56	420	1.479	ug/l #	80
36) 1,1-Dichloropropene	7.967	75	1062	4.579	ug/l #	41
37) Ethyl Acetate	7.279	43	205	1.938	ug/l #	66
38) Carbon Tetrachloride	7.973	117	1282	6.003	ug/l #	12
41) Methacrylonitrile	7.526	41	147	5.259	ug/l #	49
48) Methyl methacrylate	9.455	41	586	5.335	ug/l #	15
51) 4-Methyl-2-Pentanone	10.220	43	216	1.990	ug/l #	34
59) 2-Hexanone	10.990	43	243	18.615	ug/l #	22
74) N-amyl acetate	12.296	43	309	1.125	ug/l #	44
76) 1,2,3-Trichloropropane	12.620	75	7110	62.349	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.620	75	7110	115.400	ug/l #	18
92) 1,2-Dibromo-3-Chloropr...	14.643	75	61	2.247	ug/l #	4

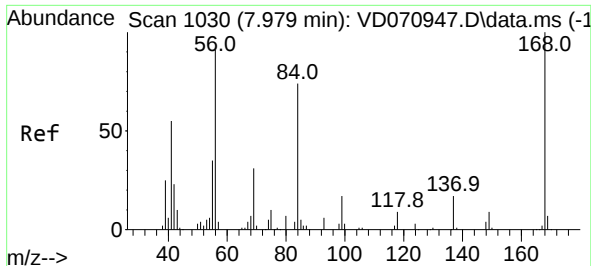
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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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

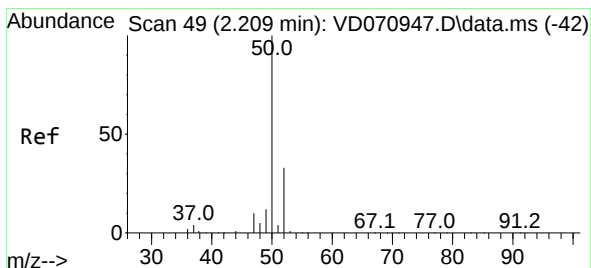
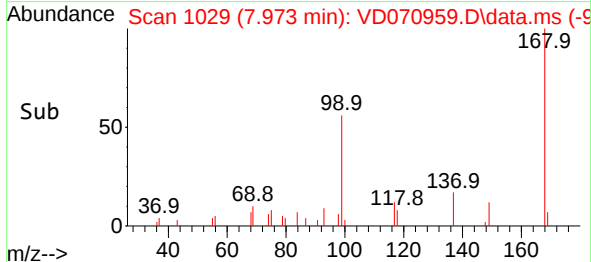
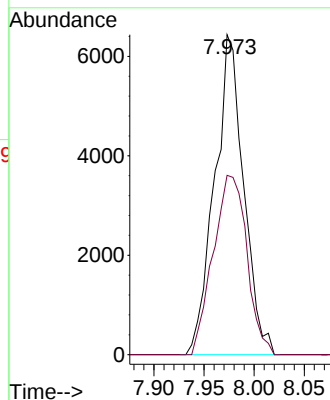
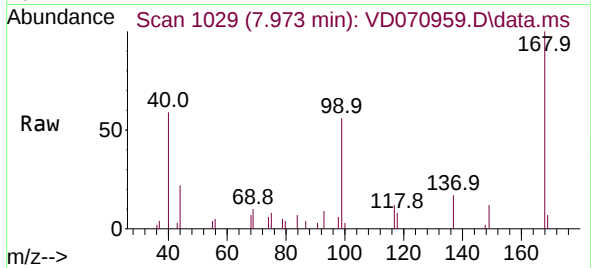




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.973 min Scan# 10
Delta R.T. -0.006 min
Lab File: VD070959.D
Acq: 09 Nov 2021 19:38

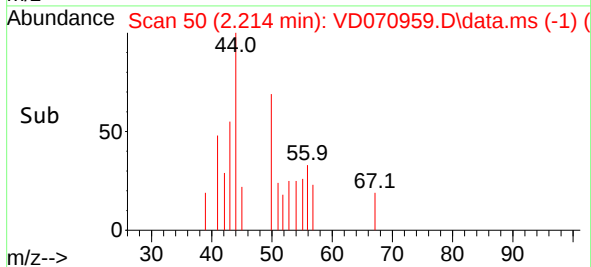
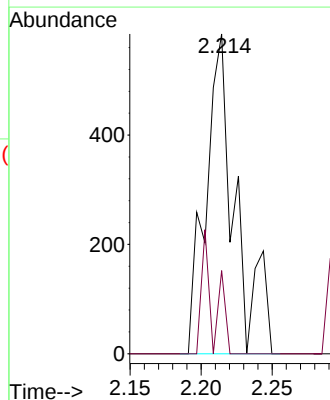
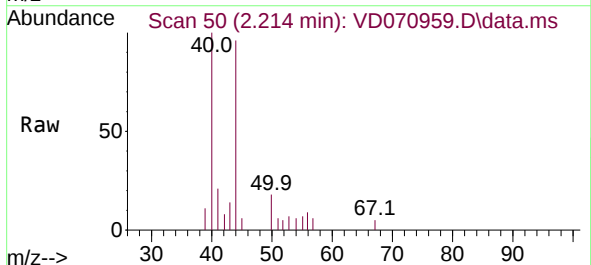
Instrument :
MSVOA_D
ClientSampleId :

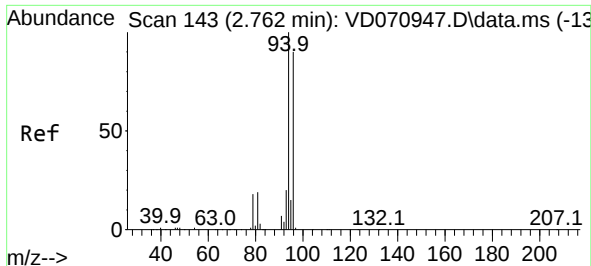
Tgt Ion:168 Resp: 12968
Ion Ratio Lower Upper
168 100
99 56.0 46.6 69.8



#3
Chloromethane
Concen: 6.440 ug/l
RT: 2.214 min Scan# 50
Delta R.T. 0.005 min
Lab File: VD070959.D
Acq: 09 Nov 2021 19:38

Tgt Ion: 50 Resp: 849
Ion Ratio Lower Upper
50 100
52 26.0 25.8 38.8

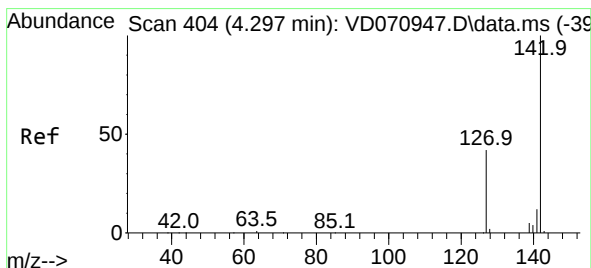
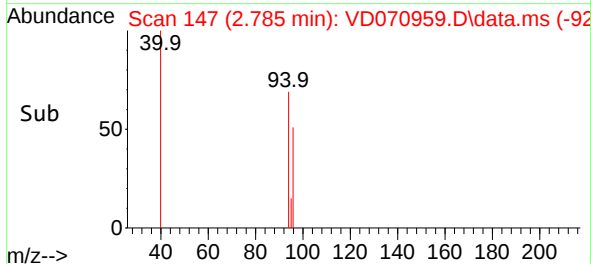
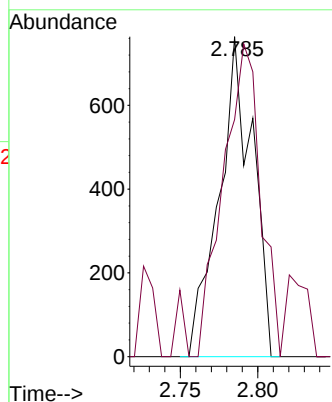
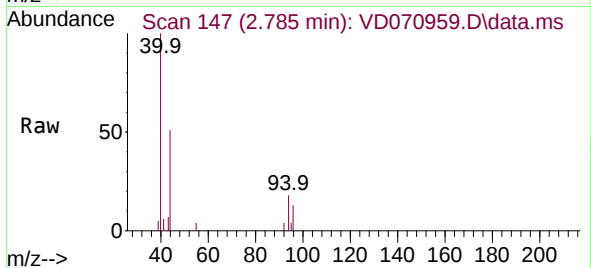




#5
Bromomethane
Concen: 13.318 ug/l
RT: 2.785 min Scan# 14
Delta R.T. 0.023 min
Lab File: VD070959.D
Acq: 09 Nov 2021 19:38

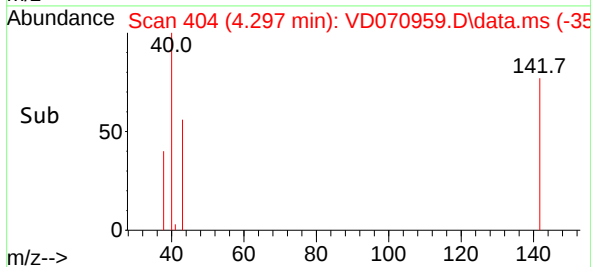
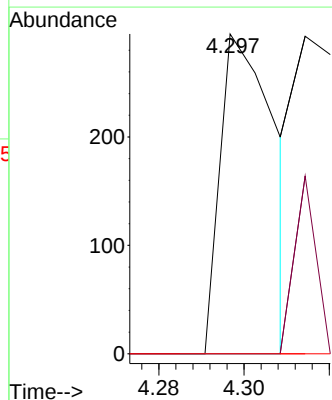
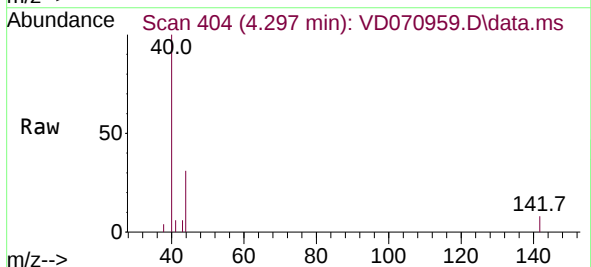
Instrument :
MSVOA_D
ClientSampleId :

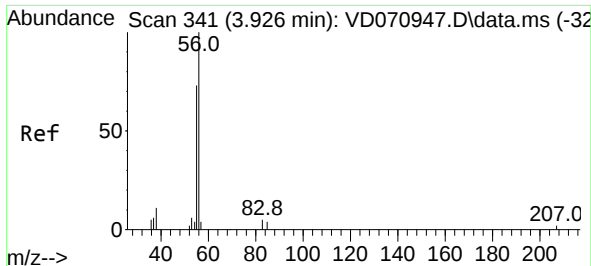
Tgt Ion: 94 Resp: 1151
Ion Ratio Lower Upper
94 100
96 74.1 74.8 112.2#



#10
Methyl Iodide
Concen: 7.577 ug/l
RT: 4.297 min Scan# 404
Delta R.T. -0.000 min
Lab File: VD070959.D
Acq: 09 Nov 2021 19:38

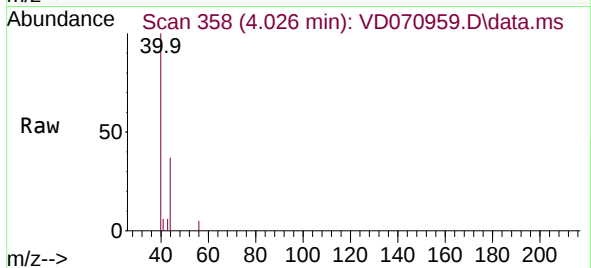
Tgt Ion:142 Resp: 266
Ion Ratio Lower Upper
142 100
127 21.8 35.0 52.4#
141 0.0 12.0 18.0#



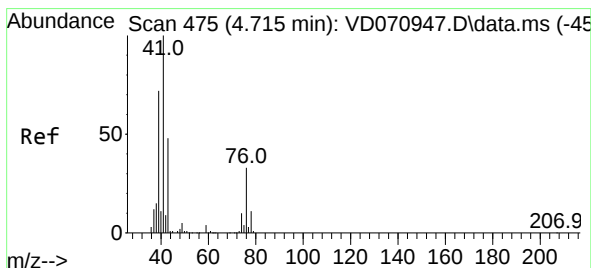
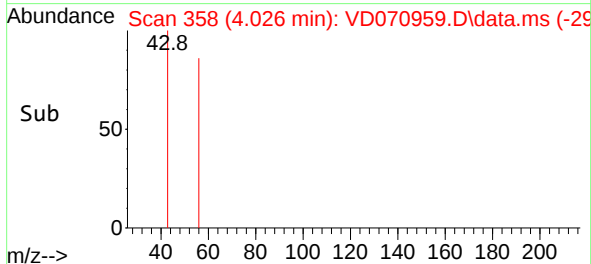
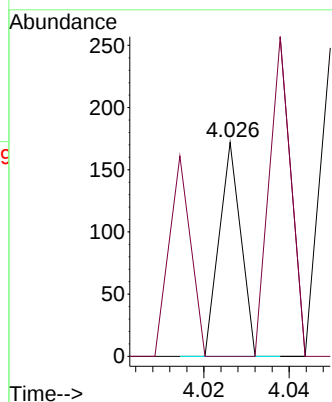


#13
Acrolein
Concen: 14.734 ug/l
RT: 4.026 min Scan# 31
Delta R.T. 0.100 min
Lab File: VD070959.D
Acq: 09 Nov 2021 19:38

Instrument :
MSVOA_D
ClientSampleId :

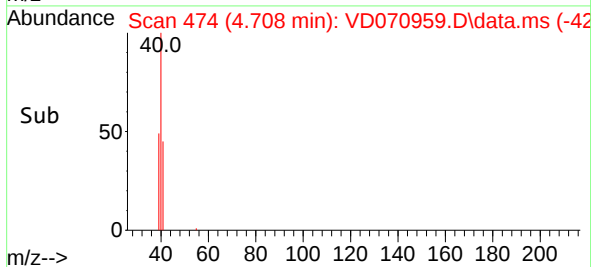
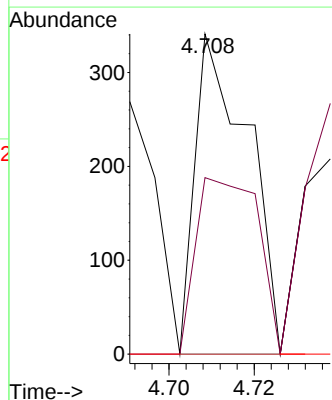
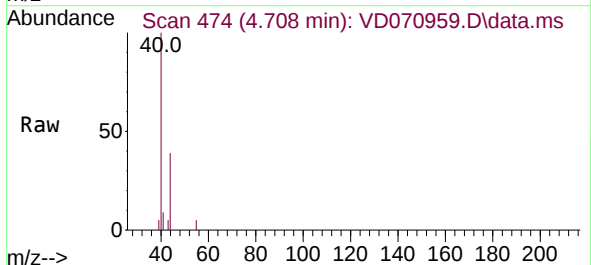


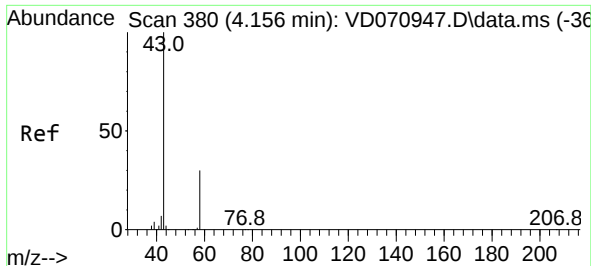
Tgt Ion: 56 Resp: 61
Ion Ratio Lower Upper
56 100
55 149.2 58.6 87.8#



#14
Allyl chloride
Concen: 1.142 ug/l
RT: 4.708 min Scan# 474
Delta R.T. -0.007 min
Lab File: VD070959.D
Acq: 09 Nov 2021 19:38

Tgt Ion: 41 Resp: 293
Ion Ratio Lower Upper
41 100
39 64.8 45.6 68.4
76 0.0 30.2 45.4#

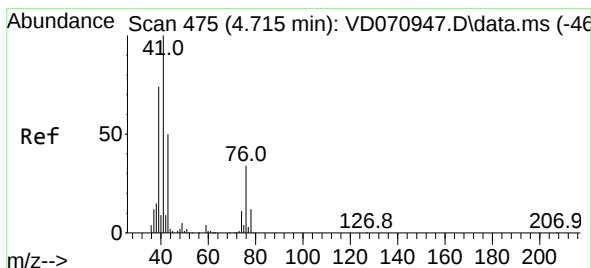
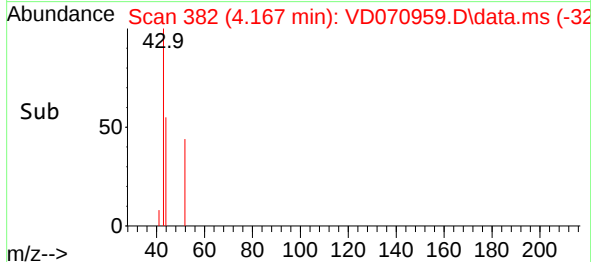
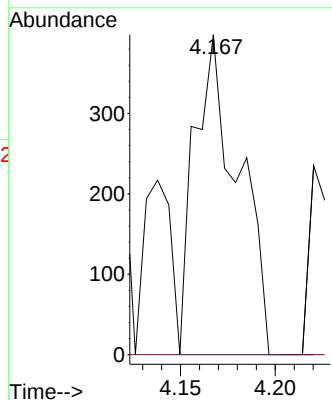
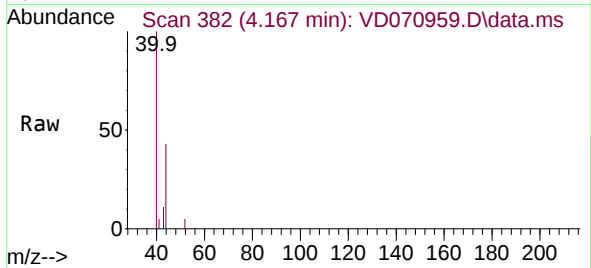




#16
Acetone
Concen: 35.626 ug/l
RT: 4.167 min Scan# 381
Delta R.T. 0.011 min
Lab File: VD070959.D
Acq: 09 Nov 2021 19:38

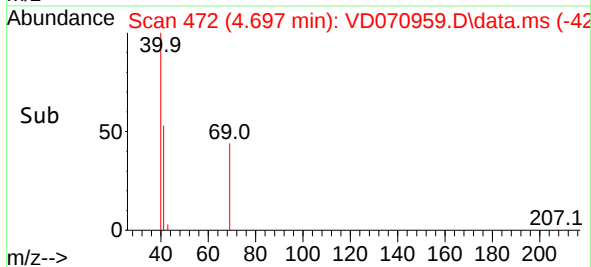
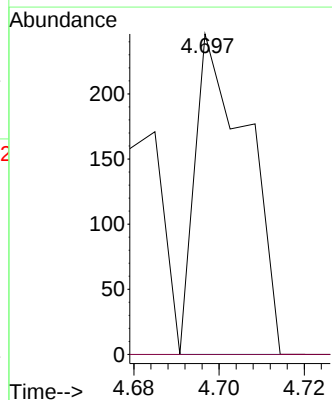
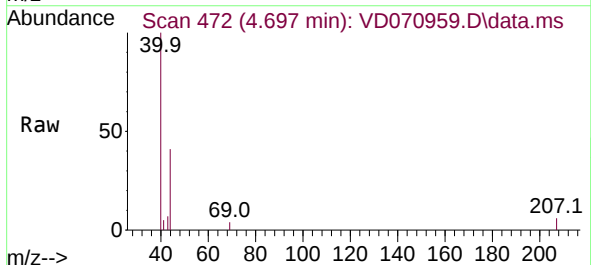
Instrument :
MSVOA_D
ClientSampleId :

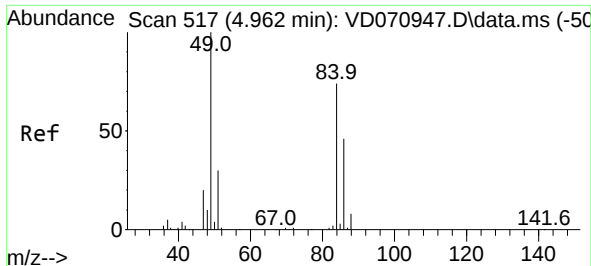
Tgt Ion: 43 Resp: 641
Ion Ratio Lower Upper
43 100
58 0.0 27.8 41.8#



#18
Methyl Acetate
Concen: 1.773 ug/l
RT: 4.697 min Scan# 472
Delta R.T. -0.018 min
Lab File: VD070959.D
Acq: 09 Nov 2021 19:38

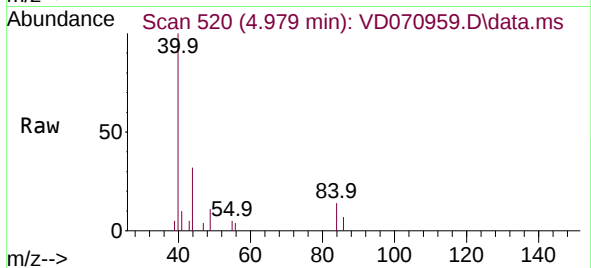
Tgt Ion: 43 Resp: 210
Ion Ratio Lower Upper
43 100
74 0.0 19.3 28.9#



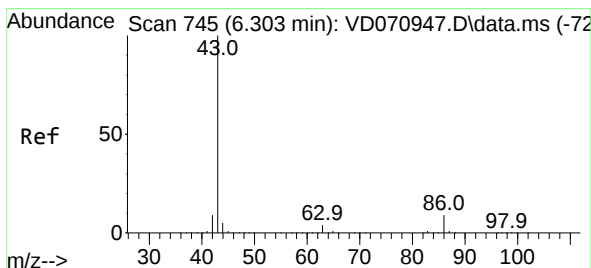
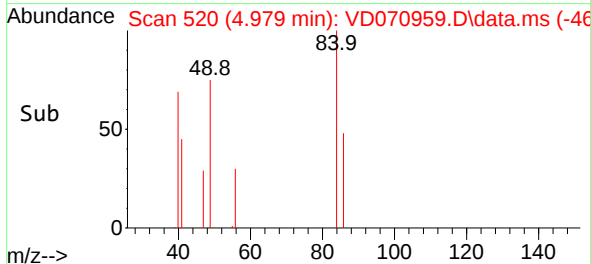
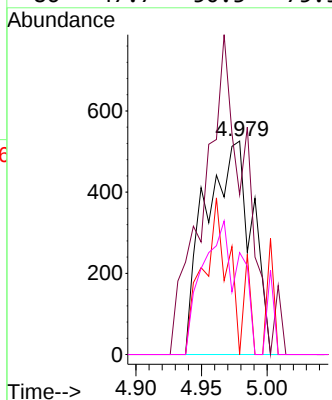


#20
Methylene Chloride
Concen: 7.879 ug/l
RT: 4.979 min Scan# 517
Delta R.T. 0.017 min
Lab File: VD070959.D
Acq: 09 Nov 2021 19:38

Instrument :
MSVOA_D
ClientSampleId :

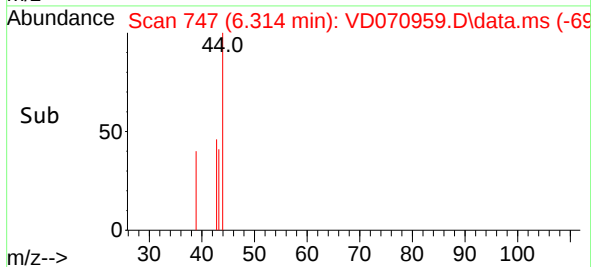
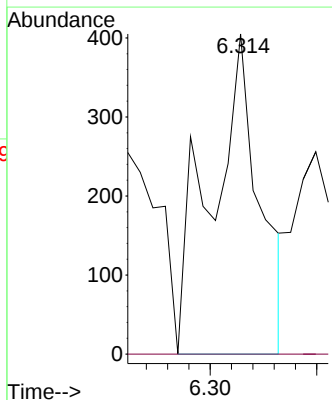
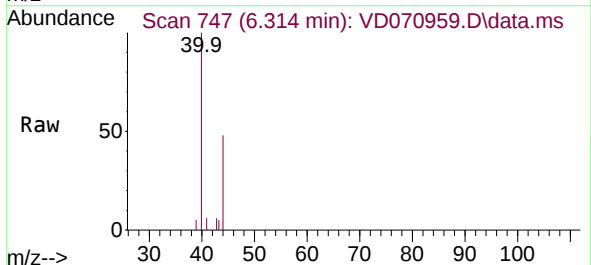


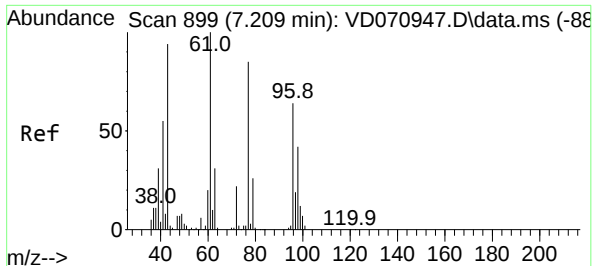
Tgt Ion: 84 Resp: 1293
Ion Ratio Lower Upper
84 100
49 42.6 95.8 143.6#
51 0.0 30.9 46.3#
86 47.7 50.3 75.5#



#23
Vinyl Acetate
Concen: 23.130 ug/l
RT: 6.314 min Scan# 747
Delta R.T. 0.011 min
Lab File: VD070959.D
Acq: 09 Nov 2021 19:38

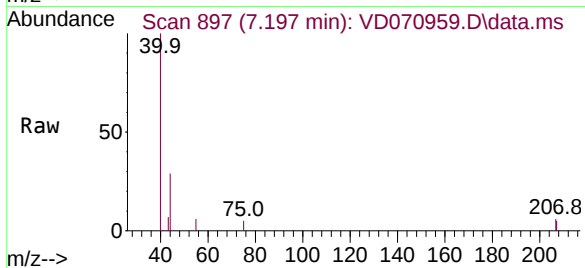
Tgt Ion: 43 Resp: 638
Ion Ratio Lower Upper
43 100
86 0.0 8.2 12.4#



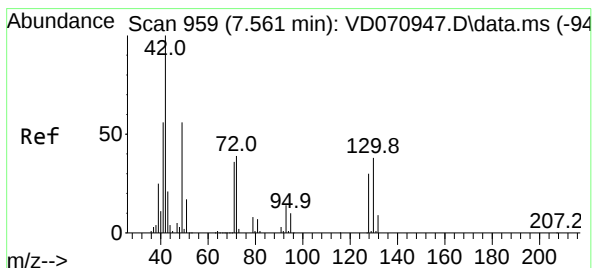
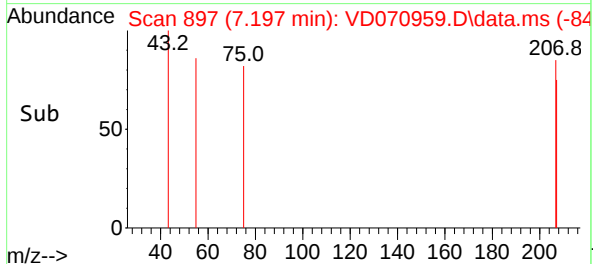
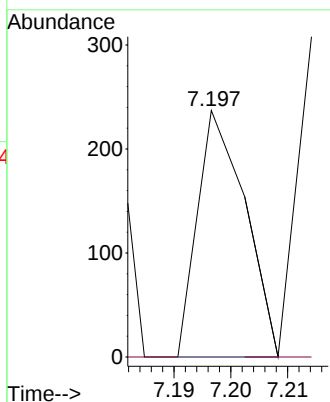


#25
2-Butanone
Concen: 22.998 ug/l
RT: 7.197 min Scan# 899
Delta R.T. -0.012 min
Lab File: VD070959.D
Acq: 09 Nov 2021 19:38

Instrument :
MSVOA_D
ClientSampleId :

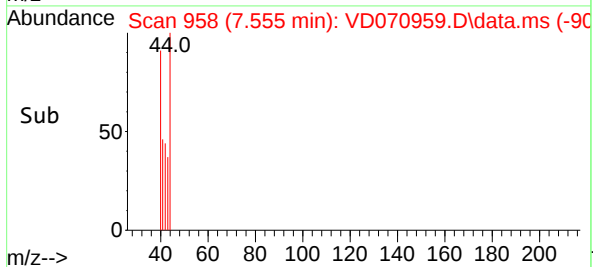
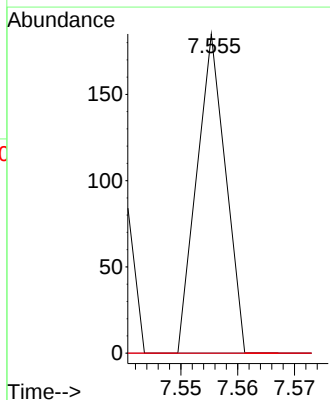
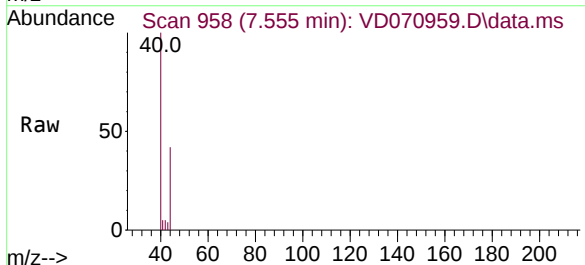


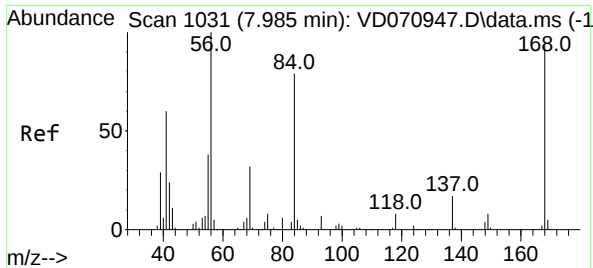
Tgt Ion: 43 Resp: 138
Ion Ratio Lower Upper
43 100
72 0.0 23.8 35.6#



#29
Tetrahydrofuran
Concen: 2.317 ug/l
RT: 7.555 min Scan# 958
Delta R.T. -0.006 min
Lab File: VD070959.D
Acq: 09 Nov 2021 19:38

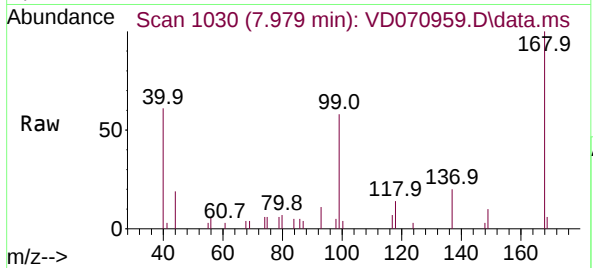
Tgt Ion: 42 Resp: 65
Ion Ratio Lower Upper
42 100
72 0.0 33.7 50.5#
71 0.0 32.7 49.1#



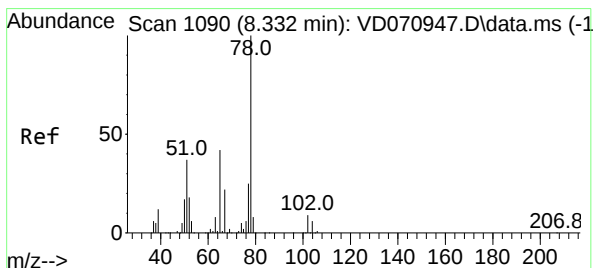
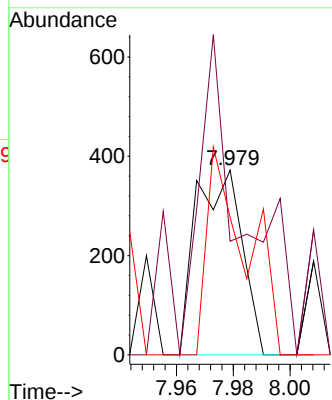
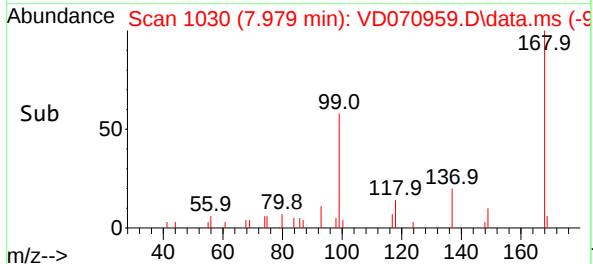


#31
Cyclohexane
Concen: 1.479 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.006 min
Lab File: VD070959.D
Acq: 09 Nov 2021 19:38

Instrument :
MSVOA_D
ClientSampleId :

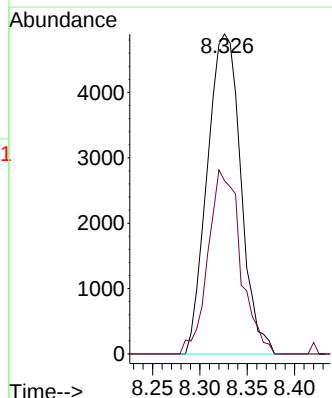
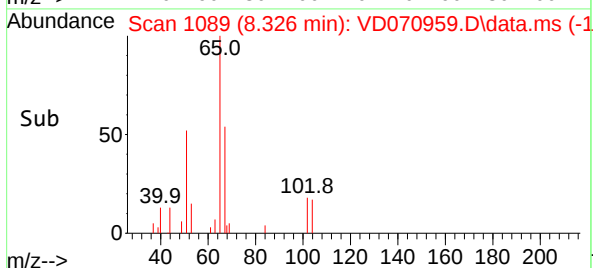
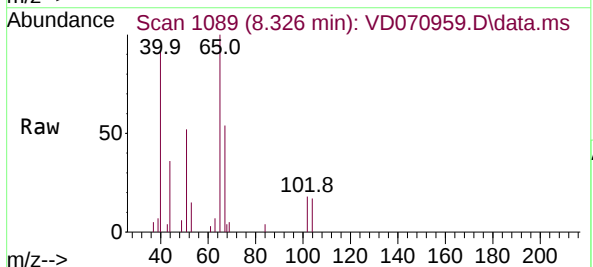


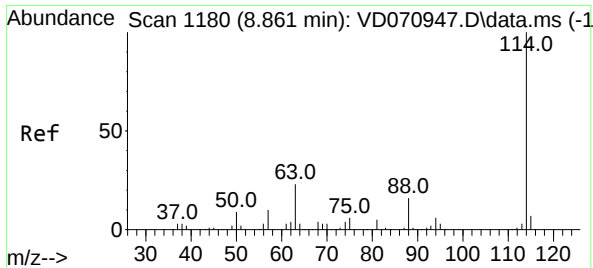
Tgt Ion: 56 Resp: 420
Ion Ratio Lower Upper
56 100
69 61.6 25.9 38.9#
84 74.5 64.3 96.5



#33
1,2-Dichloroethane-d4
Concen: 87.216 ug/l
RT: 8.326 min Scan# 1089
Delta R.T. -0.006 min
Lab File: VD070959.D
Acq: 09 Nov 2021 19:38

Tgt Ion: 65 Resp: 12042
Ion Ratio Lower Upper
65 100
67 55.7 0.0 112.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1180

Delta R.T. 0.000 min

Lab File: VD070959.D

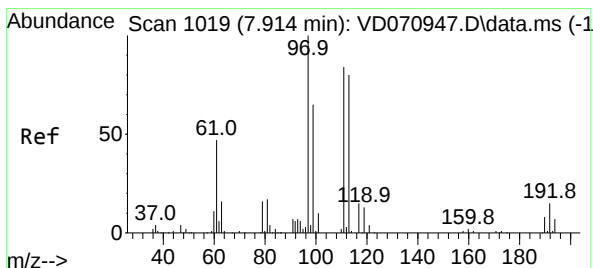
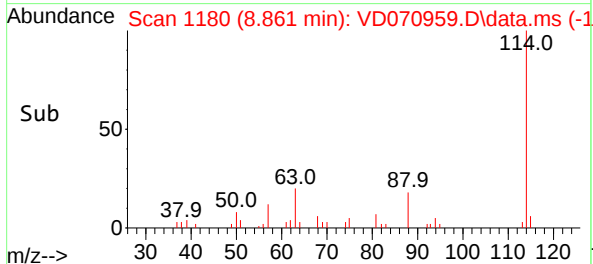
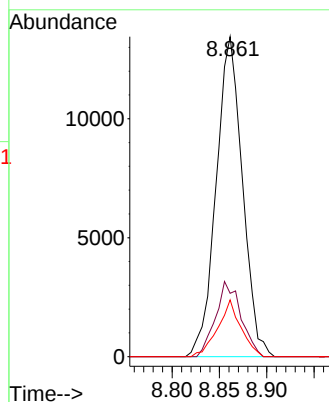
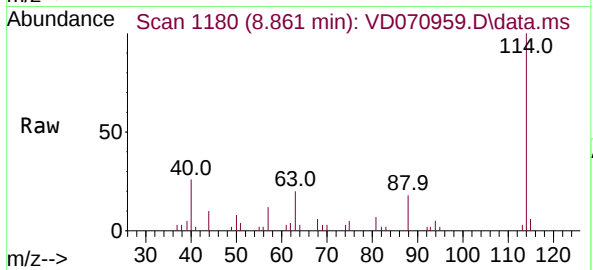
Acq: 09 Nov 2021 19:38

Instrument :

MSVOA_D

ClientSampleId :

Tgt Ion:114	Resp:	25974
Ion Ratio	Lower	Upper
114	100	
63	19.8	0.0 41.8
88	17.8	0.0 32.8



#35

Dibromofluoromethane

Concen: 45.570 ug/l

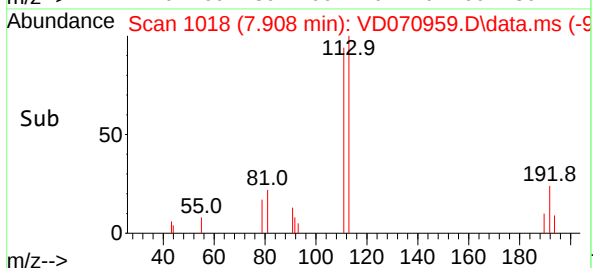
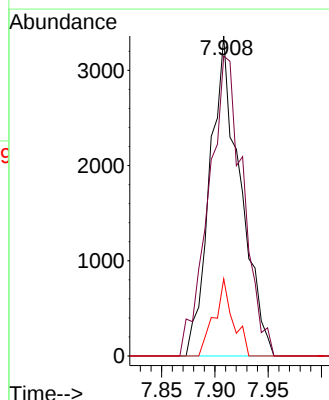
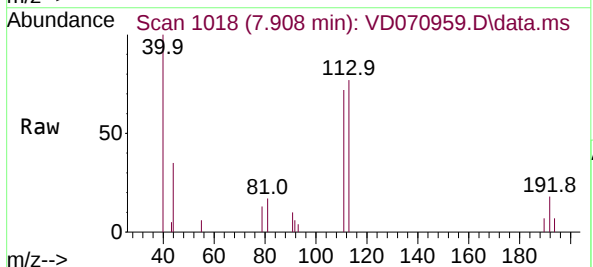
RT: 7.908 min Scan# 1018

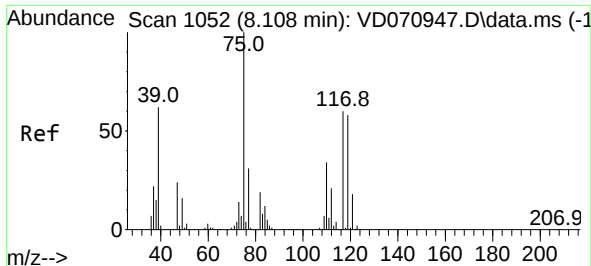
Delta R.T. -0.006 min

Lab File: VD070959.D

Acq: 09 Nov 2021 19:38

Tgt Ion:113	Resp:	6679
Ion Ratio	Lower	Upper
113	100	
111	105.9	82.0 123.0
192	14.8	15.2 22.8





#36

1,1-Dichloropropene

Concen: 4.579 ug/l

RT: 7.967 min Scan# 1062

Delta R.T. -0.141 min

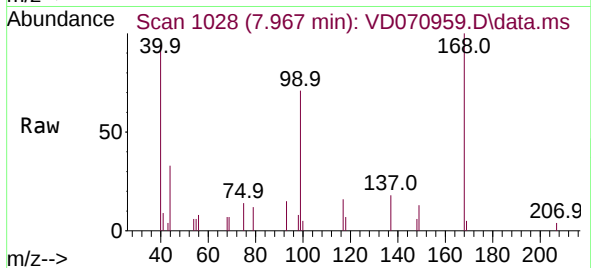
Lab File: VD070959.D

Acq: 09 Nov 2021 19:38

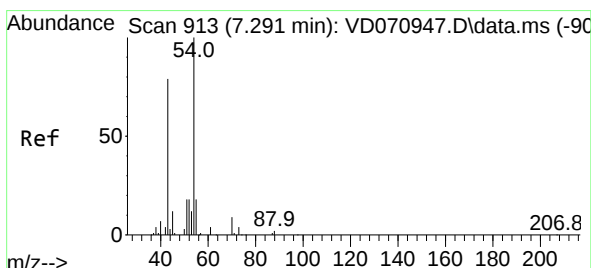
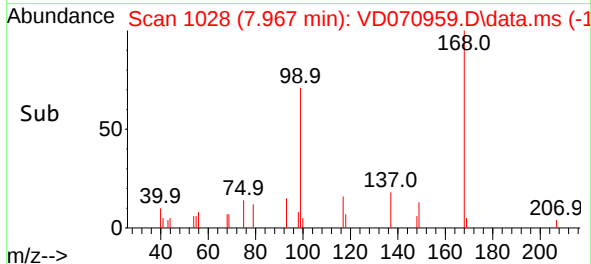
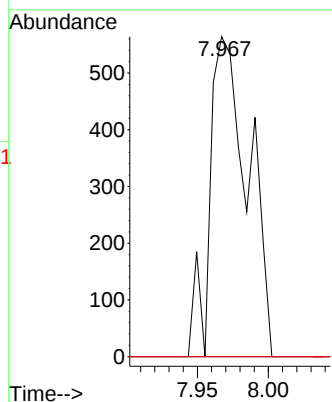
Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion: 75	Resp: 1062
Ion Ratio	Lower Upper
75 100	
110 0.0	17.8 53.4#
77 0.0	24.8 37.2#



#37

Ethyl Acetate

Concen: 1.938 ug/l

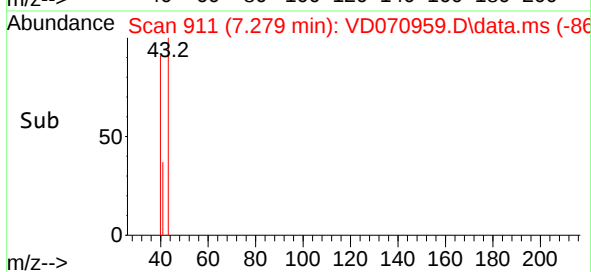
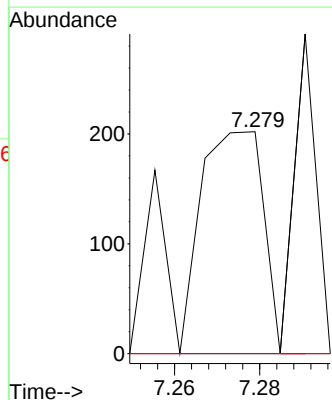
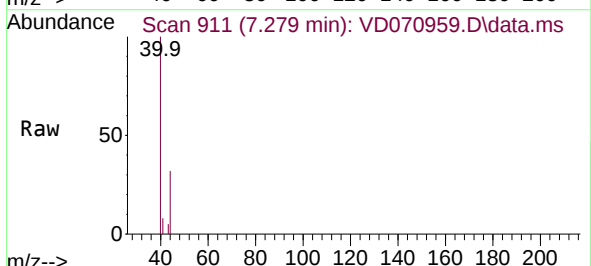
RT: 7.279 min Scan# 911

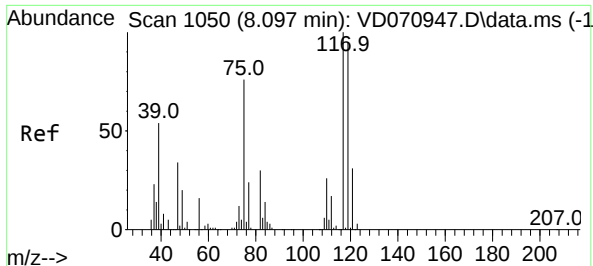
Delta R.T. -0.012 min

Lab File: VD070959.D

Acq: 09 Nov 2021 19:38

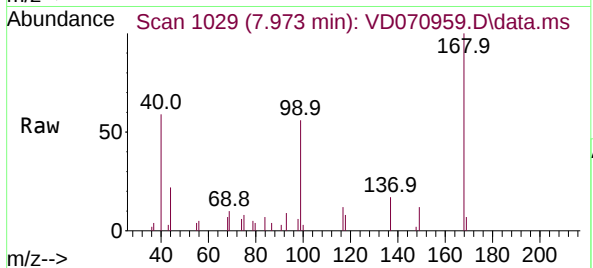
Tgt Ion: 43	Resp: 205
Ion Ratio	Lower Upper
43 100	
61 0.0	13.0 19.6#
70 0.0	8.7 13.1#



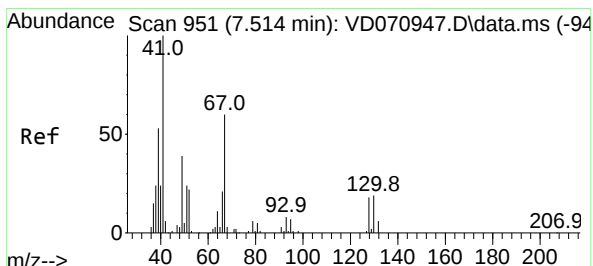
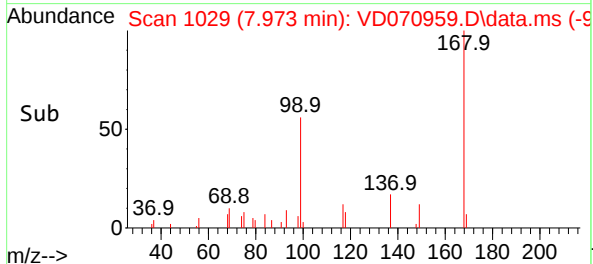
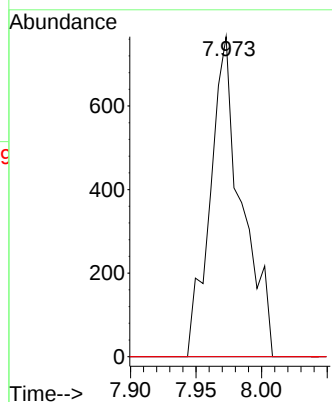


#38
Carbon Tetrachloride
Concen: 6.003 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.124 min
Lab File: VD070959.D
Acq: 09 Nov 2021 19:38

Instrument :
MSVOA_D
ClientSampleId :

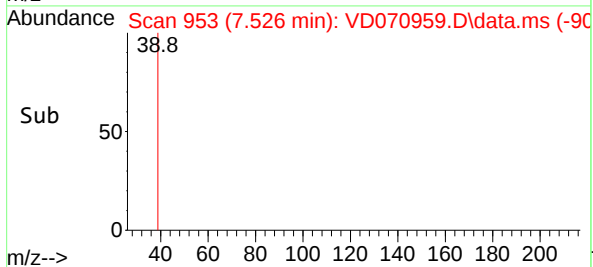
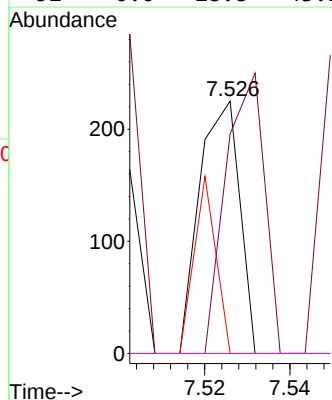
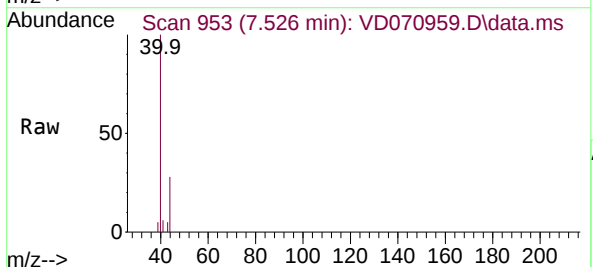


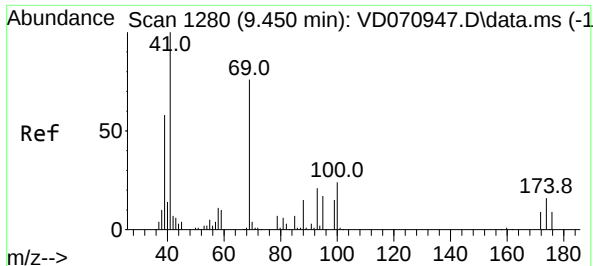
Tgt Ion:117 Resp: 1282
Ion Ratio Lower Upper
117 100
119 0.0 75.8 113.6#
121 0.0 23.6 35.4#



#41
Methacrylonitrile
Concen: 5.259 ug/l
RT: 7.526 min Scan# 953
Delta R.T. 0.012 min
Lab File: VD070959.D
Acq: 09 Nov 2021 19:38

Tgt Ion: 41 Resp: 147
Ion Ratio Lower Upper
41 100
39 106.8 60.2 90.4#
67 38.1 74.8 112.2#
52 0.0 28.8 43.2#





#48

Methyl methacrylate

Concen: 5.335 ug/l

RT: 9.455 min Scan# 11

Delta R.T. 0.005 min

Lab File: VD070959.D

Acq: 09 Nov 2021 19:38

Instrument :

MSVOA_D

ClientSampleId :

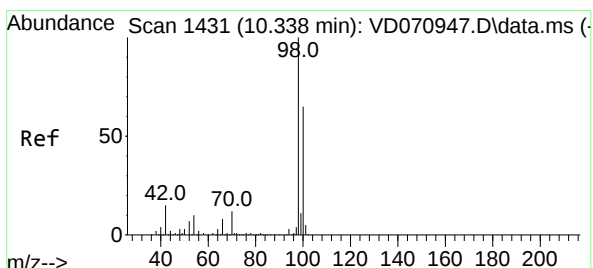
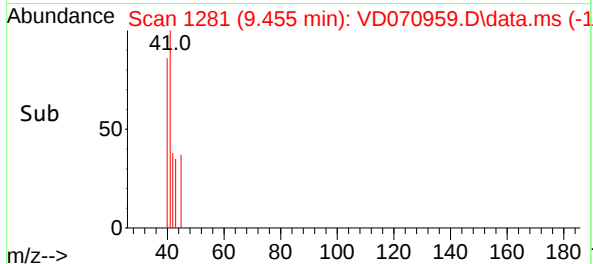
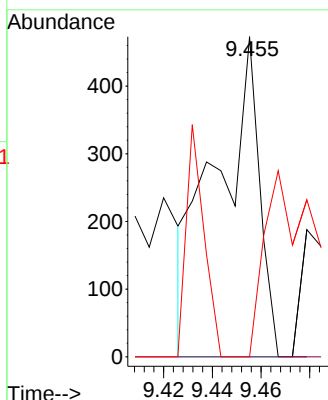
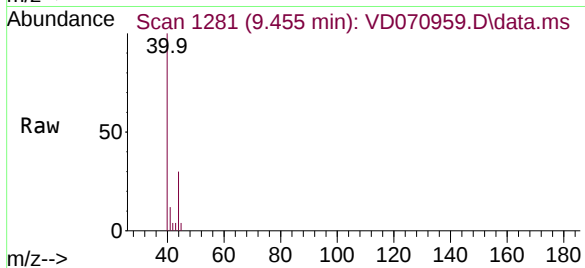
Tgt Ion: 41 Resp: 586

Ion Ratio Lower Upper

41 100

69 0.0 69.8 104.6#

39 0.0 35.6 53.4#



#50

Toluene-d8

Concen: 54.609 ug/l

RT: 10.332 min Scan# 1430

Delta R.T. -0.006 min

Lab File: VD070959.D

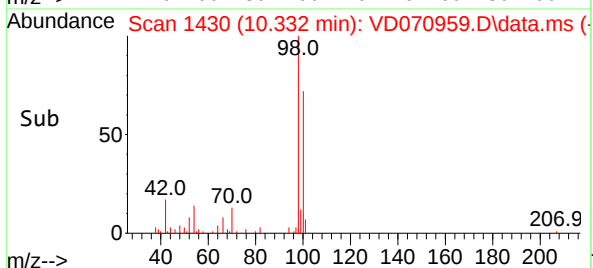
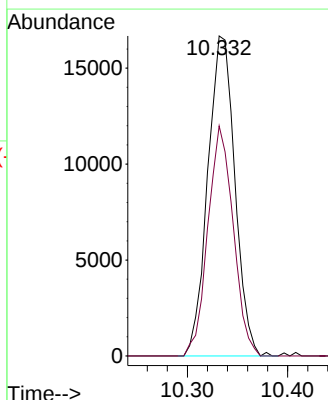
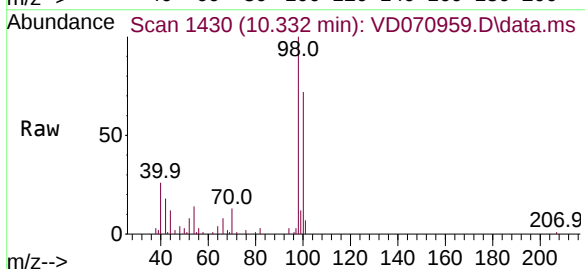
Acq: 09 Nov 2021 19:38

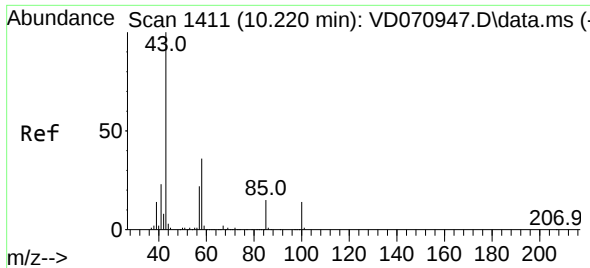
Tgt Ion: 98 Resp: 31345

Ion Ratio Lower Upper

98 100

100 67.3 51.8 77.6

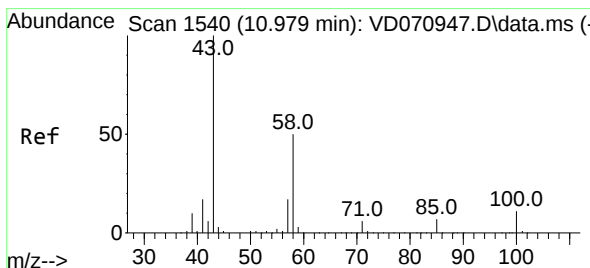
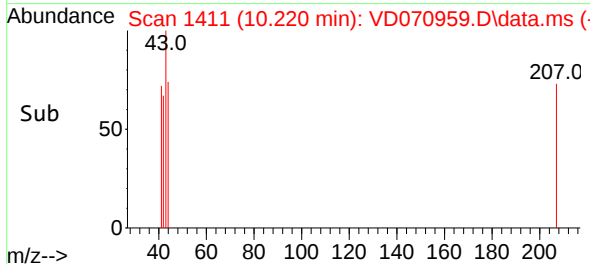
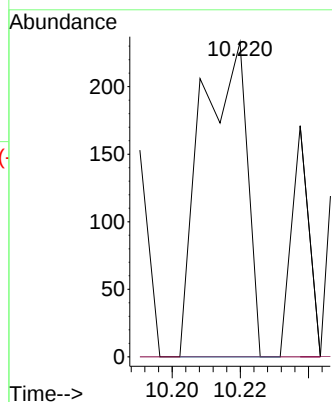
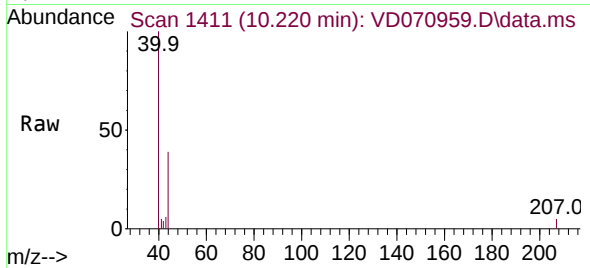




#51
4-Methyl-2-Pentanone
Concen: 1.990 ug/l
RT: 10.220 min Scan# 1411
Delta R.T. -0.000 min
Lab File: VD070959.D
Acq: 09 Nov 2021 19:38

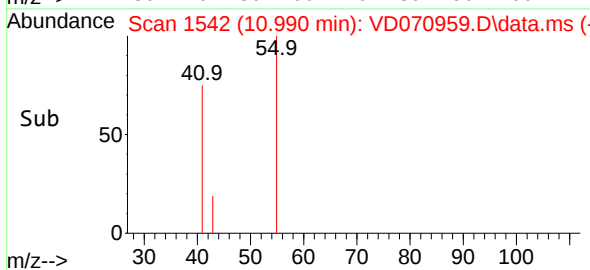
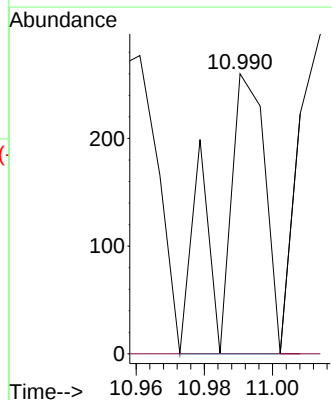
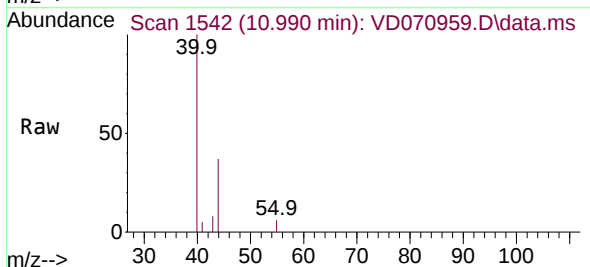
Instrument :
MSVOA_D
ClientSampleId :

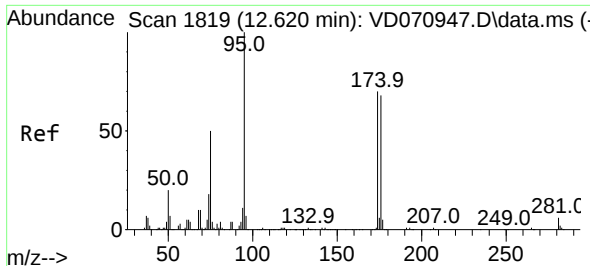
Tgt Ion: 43 Resp: 216
Ion Ratio Lower Upper
43 100
58 0.0 33.1 49.7#



#59
2-Hexanone
Concen: 18.615 ug/l
RT: 10.990 min Scan# 1542
Delta R.T. 0.011 min
Lab File: VD070959.D
Acq: 09 Nov 2021 19:38

Tgt Ion: 43 Resp: 243
Ion Ratio Lower Upper
43 100
58 0.0 28.7 86.1#

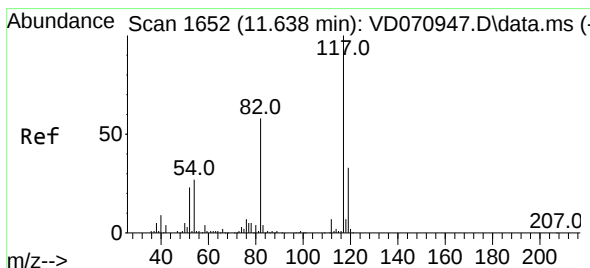
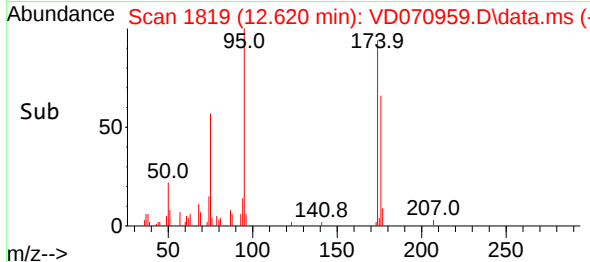
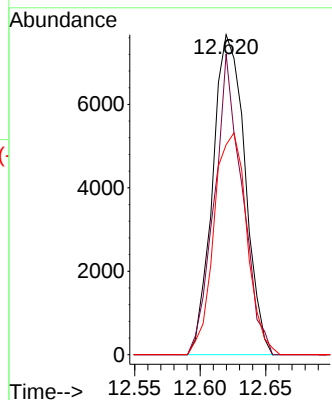
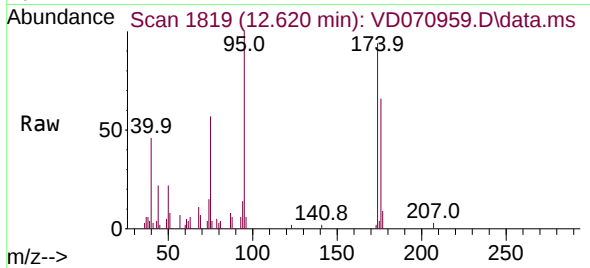




#62
4-Bromofluorobenzene
Concen: 63.463 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.000 min
Lab File: VD070959.D
Acq: 09 Nov 2021 19:38

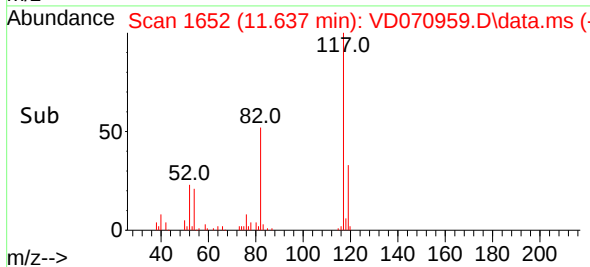
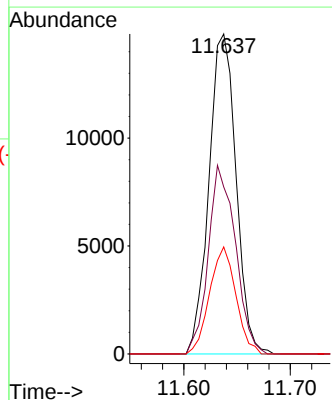
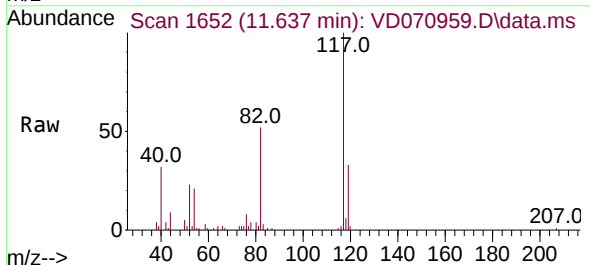
Instrument :
MSVOA_D
ClientSampleId :

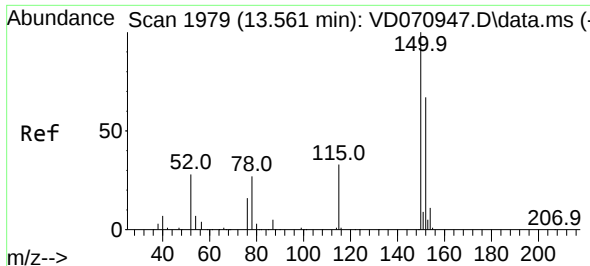
Tgt Ion:	95	Resp:	13116
Ion	Ratio	Lower	Upper
95	100		
174	81.0	0.0	159.4
176	70.9	0.0	154.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.637 min Scan# 1652
Delta R.T. -0.001 min
Lab File: VD070959.D
Acq: 09 Nov 2021 19:38

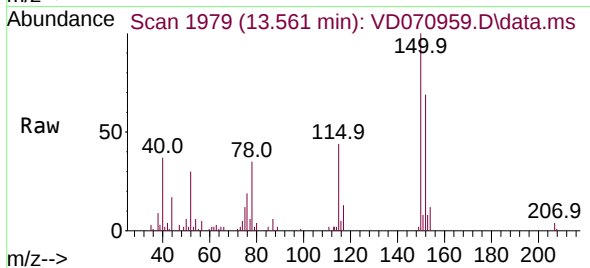
Tgt Ion:	117	Resp:	26238
Ion	Ratio	Lower	Upper
117	100		
82	52.2	44.7	67.1
119	33.4	26.2	39.4



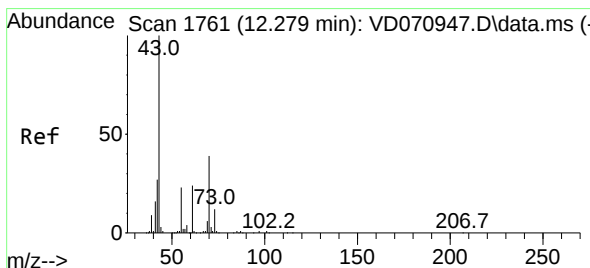
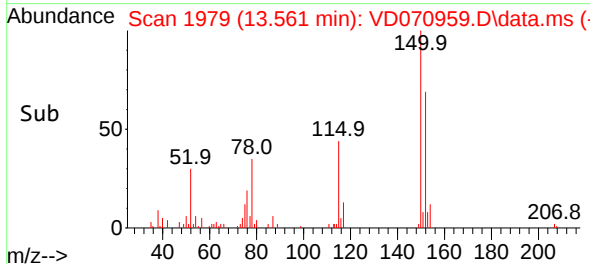
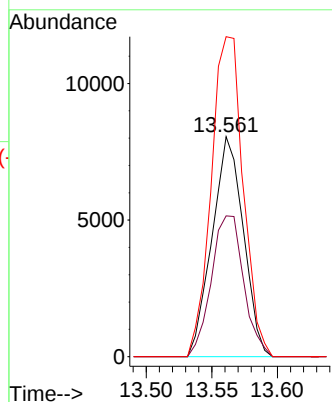


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.561 min Scan# 1799
 Delta R.T. -0.000 min
 Lab File: VD070959.D
 Acq: 09 Nov 2021 19:38

Instrument :
 MSVOA_D
 ClientSampleId :

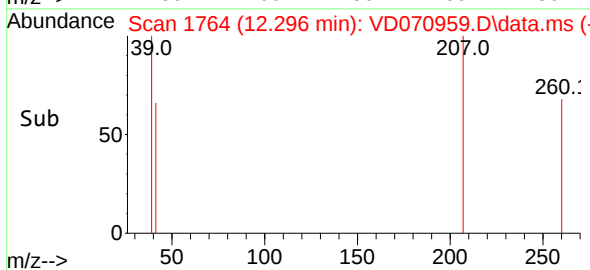
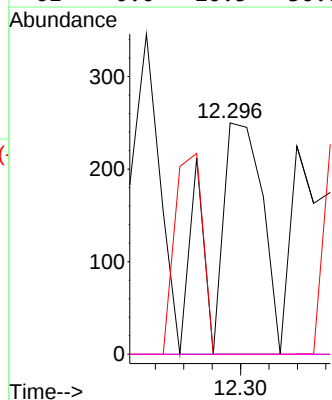
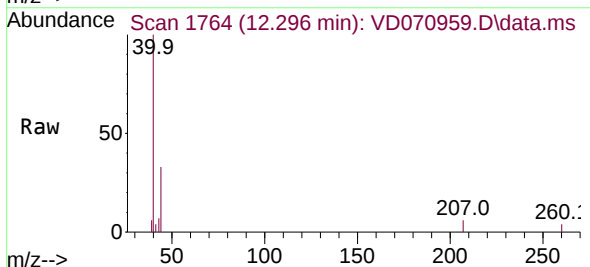


Tgt Ion:152 Resp: 13350
 Ion Ratio Lower Upper
 152 100
 115 66.3 29.8 89.3
 150 148.8 0.0 349.2

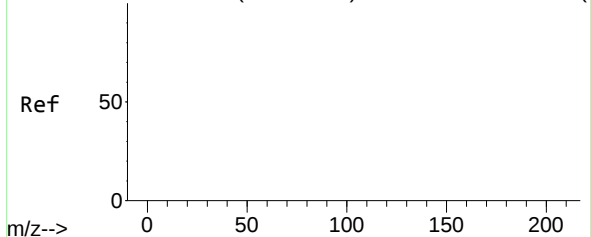


#74
 N-ethyl acetate
 Concen: 1.125 ug/l
 RT: 12.296 min Scan# 1764
 Delta R.T. 0.017 min
 Lab File: VD070959.D
 Acq: 09 Nov 2021 19:38

Tgt Ion: 43 Resp: 309
 Ion Ratio Lower Upper
 43 100
 70 0.0 36.6 55.0#
 55 47.9 22.5 33.7#
 61 0.0 20.5 30.7#



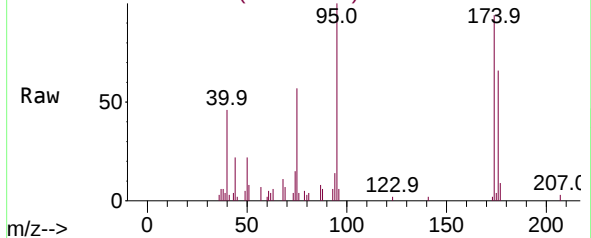
Abundance Scan 1847 (12.785 min): VD070947.D\data.ms (-



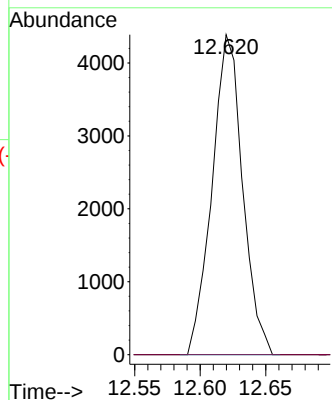
#76
1,2,3-Trichloropropane
Concen: 62.349 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.165 min
Lab File: VD070959.D
Acq: 09 Nov 2021 19:38

Instrument :
MSVOA_D
ClientSampleId :

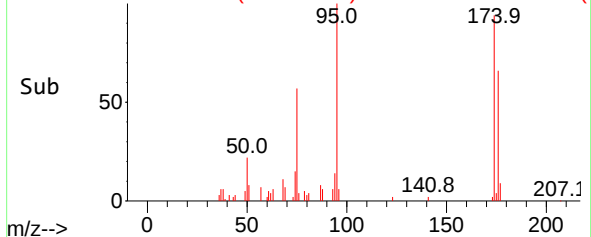
Abundance Scan 1819 (12.620 min): VD070959.D\data.ms (-



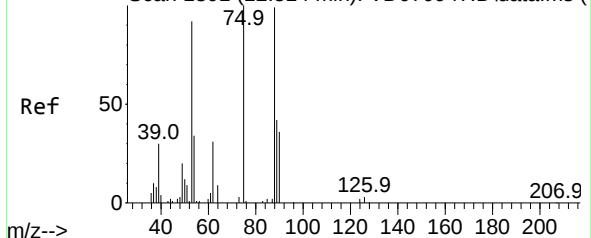
Tgt Ion: 75 Resp: 7110
Ion Ratio Lower Upper
75 100
77 0.0 158.4 475.3#



Abundance Scan 1819 (12.620 min): VD070959.D\data.ms (-



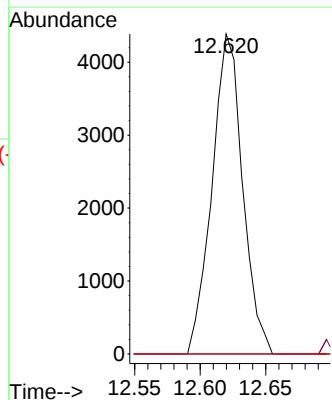
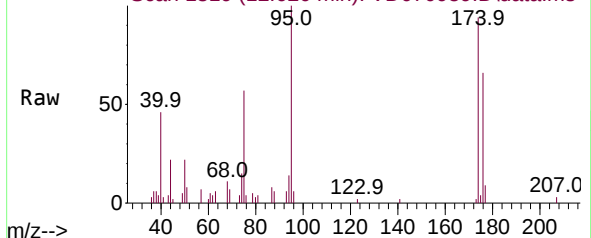
Abundance Scan 1801 (12.514 min): VD070947.D\data.ms (-



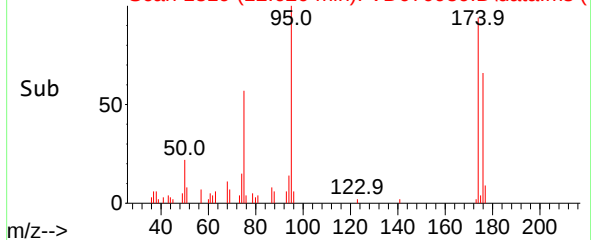
#81
trans-1,4-Dichloro-2-butene
Concen: 115.400 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.106 min
Lab File: VD070959.D
Acq: 09 Nov 2021 19:38

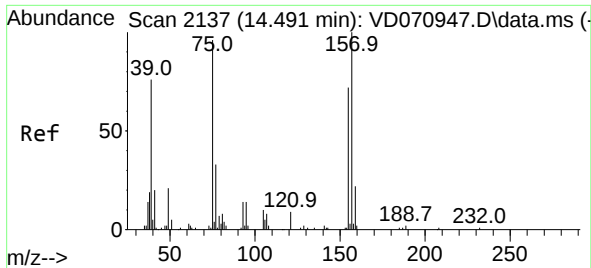
Tgt Ion: 75 Resp: 7110
Ion Ratio Lower Upper
75 100
53 0.0 62.6 94.0#
89 0.0 34.5 51.7#

Abundance Scan 1819 (12.620 min): VD070959.D\data.ms (-



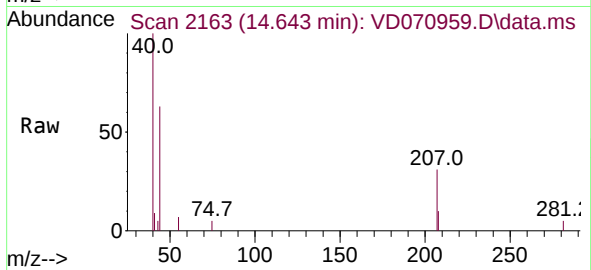
Abundance Scan 1819 (12.620 min): VD070959.D\data.ms (-





#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.247 ug/l
 RT: 14.643 min Scan# 21
 Delta R.T. 0.152 min
 Lab File: VD070959.D
 Acq: 09 Nov 2021 19:38

Instrument :
 MSVOA_D
 ClientSampleId :



Tgt Ion: 75 Resp: 61
 Ion Ratio Lower Upper
 75 100
 155 0.0 40.0 120.0#
 157 0.0 49.8 149.3#

