

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD110921\
 Data File : VD070957.D
 Acq On : 09 Nov 2021 18:41
 Operator : VA/SY
 Sample : M4540-03
 Misc : 5.04G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Nov 10 03:58:27 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)

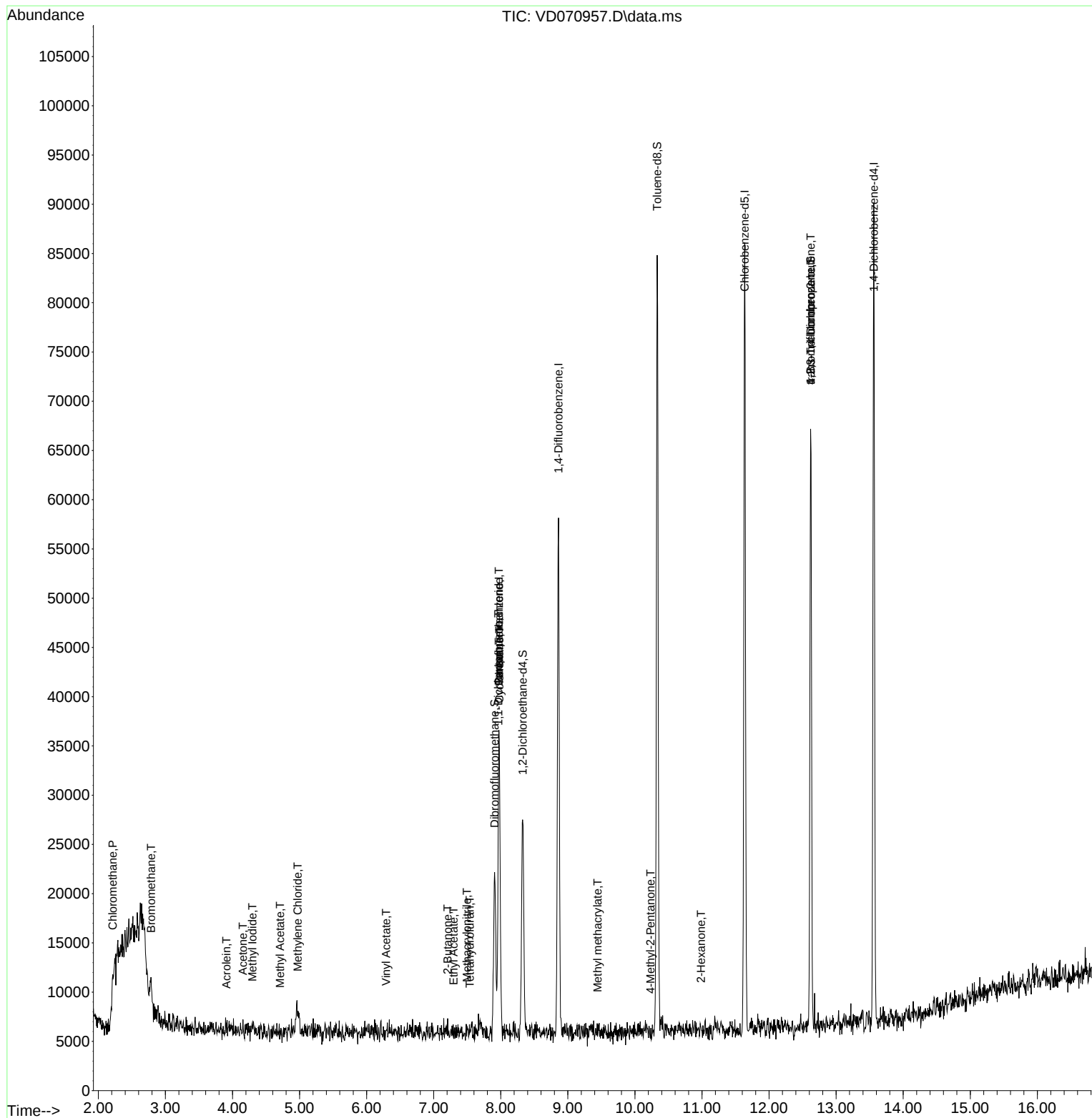
Internal Standards						
1) Pentafluorobenzene	7.973	168	21877	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	40570	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	43080	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	20530	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	17042	73.165	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 146.320%	
35) Dibromofluoromethane	7.908	113	11808	51.579	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 103.160%	
50) Toluene-d8	10.332	98	52348	58.389	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 116.780%	
62) 4-Bromofluorobenzene	12.620	95	20728	64.212	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 128.420%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.215	50	782	3.516	ug/l #	77
5) Bromomethane	2.785	94	1691	11.598	ug/l	100
10) Methyl Iodide	4.297	142	909	9.173	ug/l #	77
13) Acrolein	3.909	56	110	16.127	ug/l	99
16) Acetone	4.156	43	596	28.521	ug/l #	40
18) Methyl Acetate	4.709	43	302	1.511	ug/l #	51
20) Methylene Chloride	4.973	84	1559	5.509	ug/l #	73
23) Vinyl Acetate	6.291	43	241	21.463	ug/l #	72
25) 2-Butanone	7.208	43	310	23.870	ug/l #	45
29) Tetrahydrofuran	7.538	42	65	1.373	ug/l #	34
31) Cyclohexane	7.979	56	872	1.820	ug/l #	5
36) 1,1-Dichloropropene	7.967	75	1754	4.842	ug/l #	41
37) Ethyl Acetate	7.297	43	280	1.694	ug/l #	66
38) Carbon Tetrachloride	7.973	117	2757	8.265	ug/l #	12
41) Methacrylonitrile	7.497	41	565	7.826	ug/l #	29
48) Methyl methacrylate	9.444	41	476	2.774	ug/l #	30
51) 4-Methyl-2-Pentanone	10.232	43	275	1.622	ug/l #	34
59) 2-Hexanone	10.985	43	309	18.117	ug/l #	22
76) 1,2,3-Trichloropropane	12.620	75	10790	61.528	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.620	75	10790	113.925	ug/l #	18

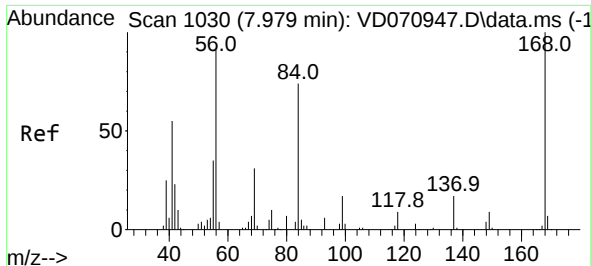
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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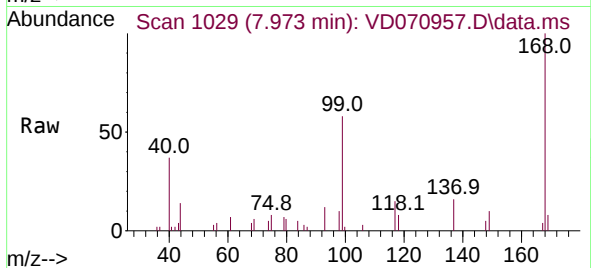
Quant Time: Nov 10 03:58:27 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D110921S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 10 03:55:51 2021
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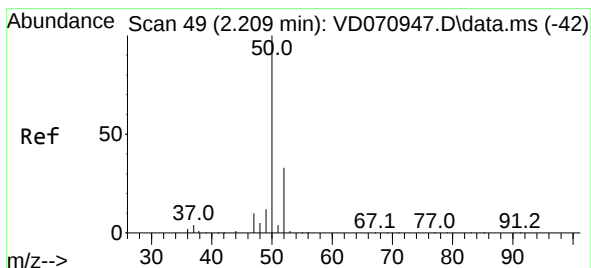
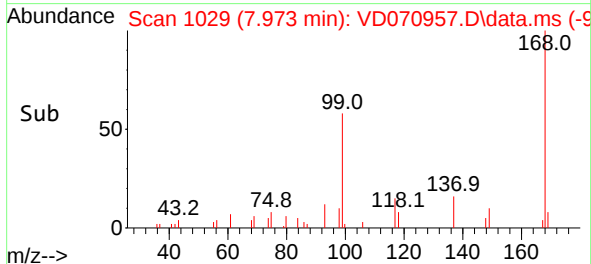
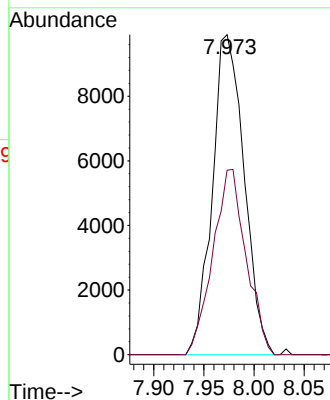


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.973 min Scan# 10
Delta R.T. -0.006 min
Lab File: VD070957.D
Acq: 09 Nov 2021 18:41

Instrument :
MSVOA_D
ClientSampleId :

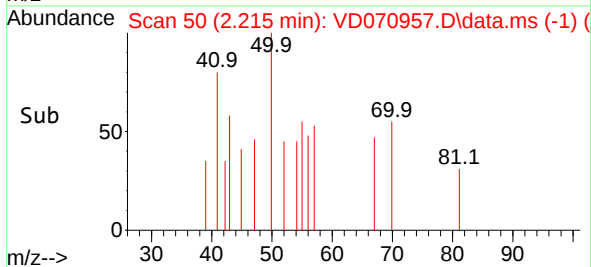
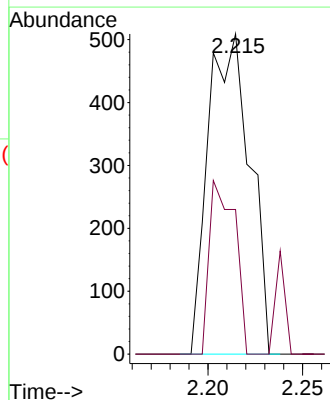
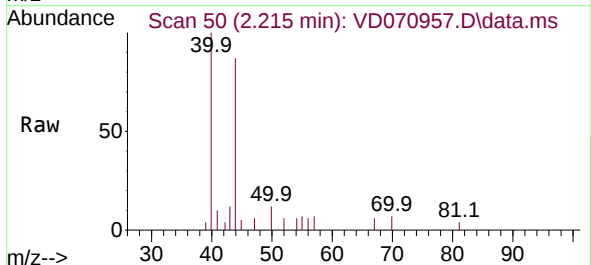


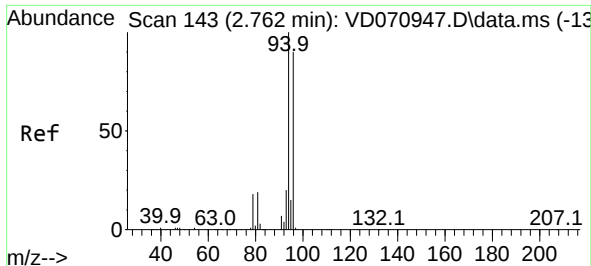
Tgt Ion:168 Resp: 21877
Ion Ratio Lower Upper
168 100
99 57.6 46.6 69.8



#3
Chloromethane
Concen: 3.516 ug/l
RT: 2.215 min Scan# 50
Delta R.T. 0.006 min
Lab File: VD070957.D
Acq: 09 Nov 2021 18:41

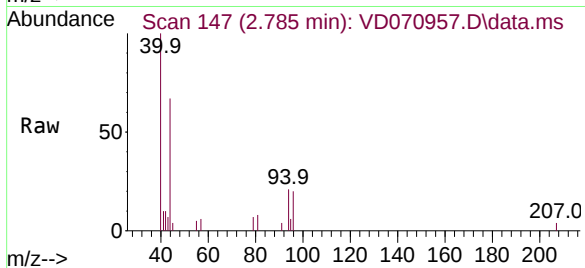
Tgt Ion: 50 Resp: 782
Ion Ratio Lower Upper
50 100
52 45.2 25.8 38.8#



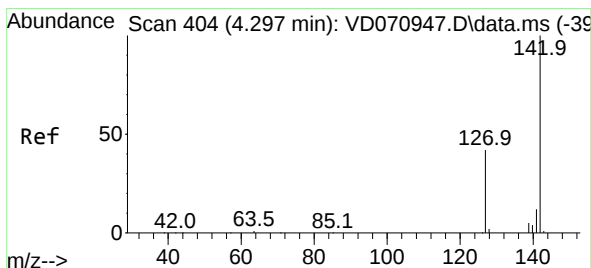
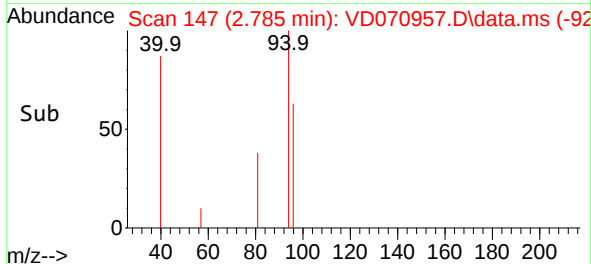
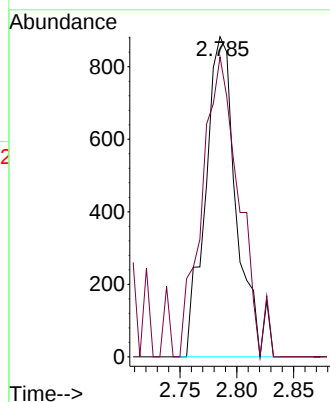


#5
Bromomethane
Concen: 11.598 ug/l
RT: 2.785 min Scan# 143
Delta R.T. 0.023 min
Lab File: VD070957.D
Acq: 09 Nov 2021 18:41

Instrument :
MSVOA_D
ClientSampleId :

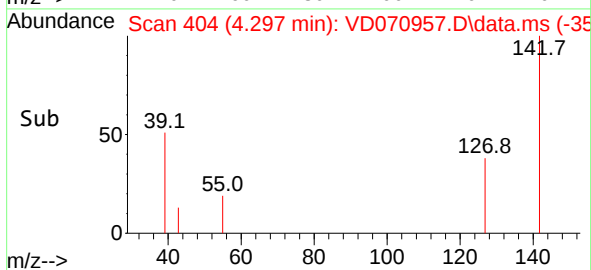
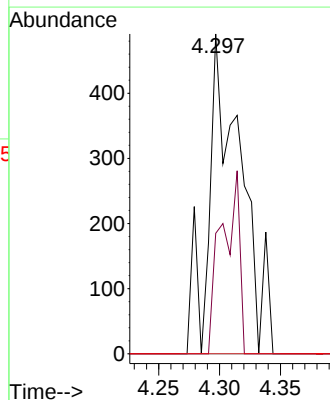
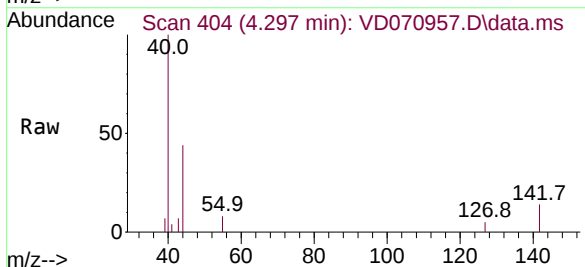


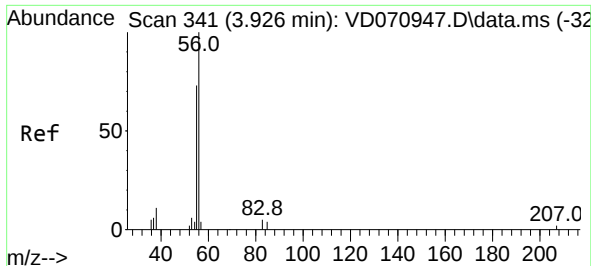
Tgt Ion: 94 Resp: 1691
Ion Ratio Lower Upper
94 100
96 93.7 74.8 112.2



#10
Methyl Iodide
Concen: 9.173 ug/l
RT: 4.297 min Scan# 404
Delta R.T. -0.000 min
Lab File: VD070957.D
Acq: 09 Nov 2021 18:41

Tgt Ion: 142 Resp: 909
Ion Ratio Lower Upper
142 100
127 31.8 35.0 52.4#
141 0.0 12.0 18.0#

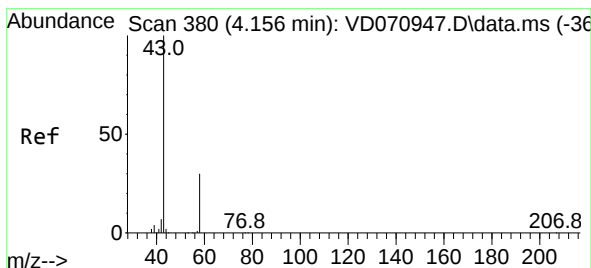
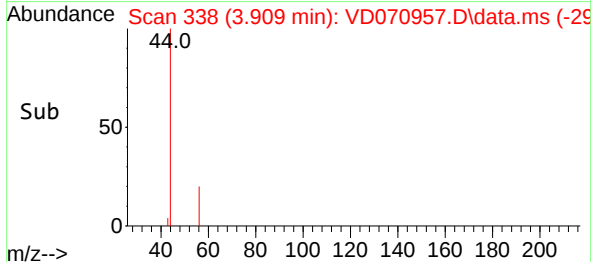
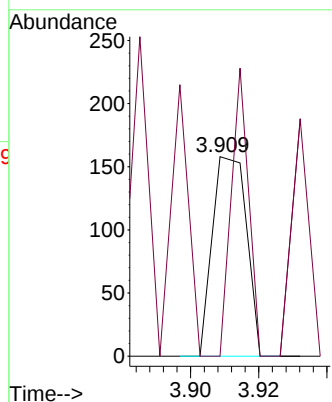
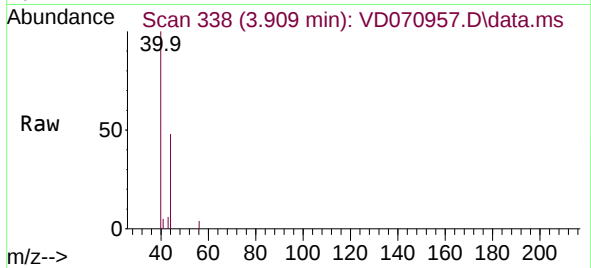




#13
Acrolein
Concen: 16.127 ug/l
RT: 3.909 min Scan# 31
Delta R.T. -0.017 min
Lab File: VD070957.D
Acq: 09 Nov 2021 18:41

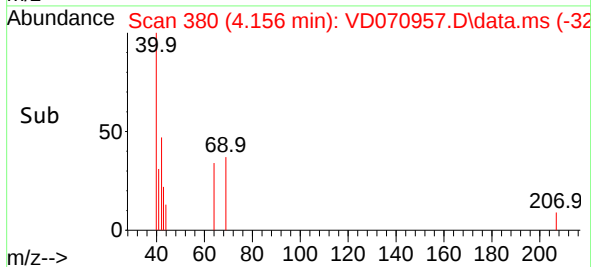
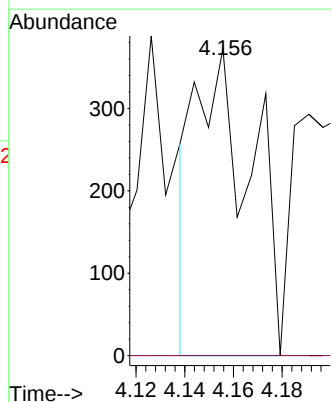
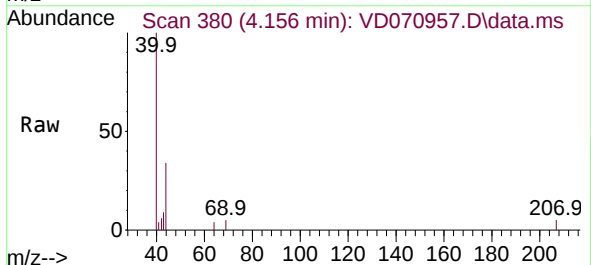
Instrument :
MSVOA_D
ClientSampleId :

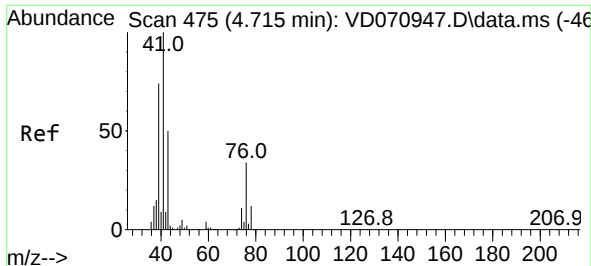
Tgt Ion: 56 Resp: 110
Ion Ratio Lower Upper
56 100
55 72.7 58.6 87.8



#16
Acetone
Concen: 28.521 ug/l
RT: 4.156 min Scan# 380
Delta R.T. -0.000 min
Lab File: VD070957.D
Acq: 09 Nov 2021 18:41

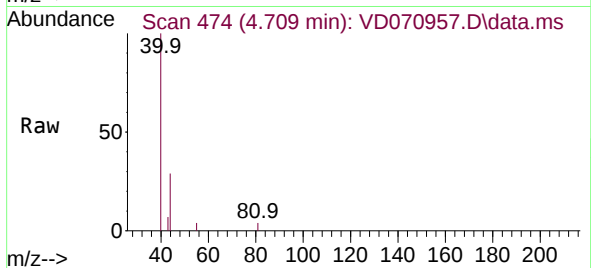
Tgt Ion: 43 Resp: 596
Ion Ratio Lower Upper
43 100
58 0.0 27.8 41.8#



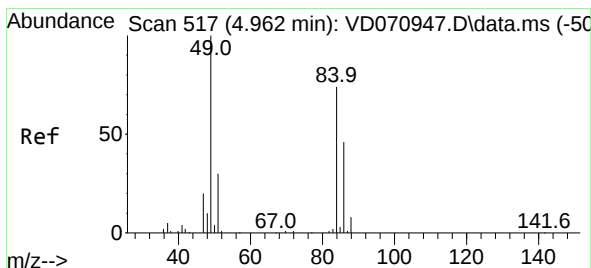
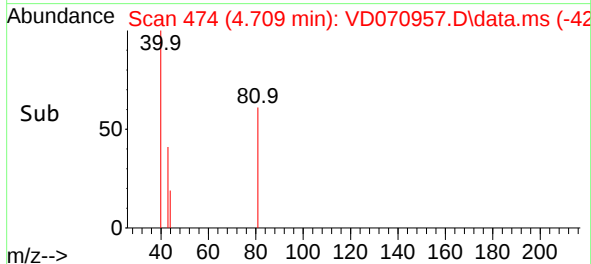
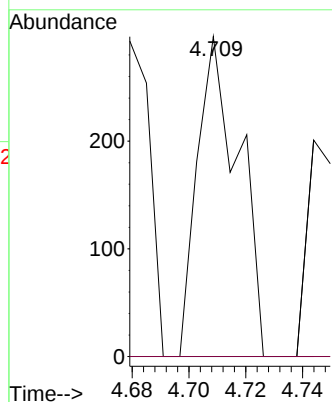


#18
Methyl Acetate
Concen: 1.511 ug/l
RT: 4.709 min Scan# 41
Delta R.T. -0.006 min
Lab File: VD070957.D
Acq: 09 Nov 2021 18:41

Instrument :
MSVOA_D
ClientSampleId :

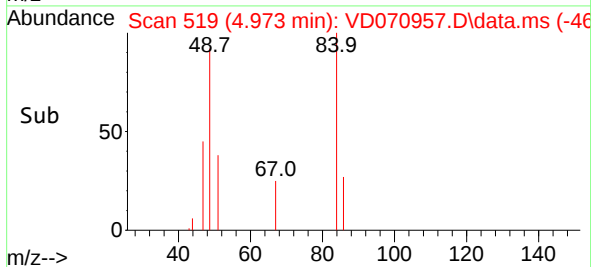
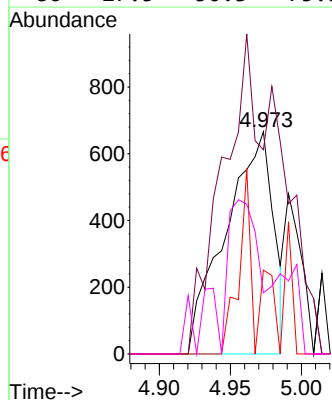
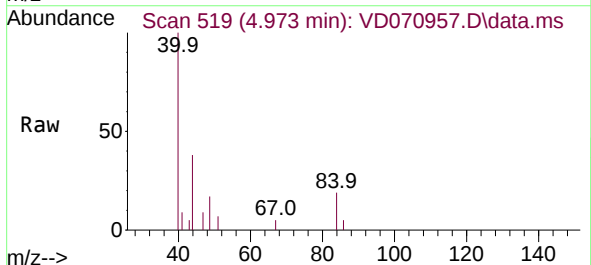


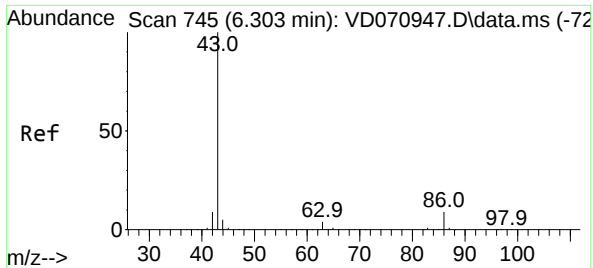
Tgt Ion: 43 Resp: 302
Ion Ratio Lower Upper
43 100
74 0.0 19.3 28.9#



#20
Methylene Chloride
Concen: 5.509 ug/l
RT: 4.973 min Scan# 519
Delta R.T. 0.011 min
Lab File: VD070957.D
Acq: 09 Nov 2021 18:41

Tgt Ion: 84 Resp: 1559
Ion Ratio Lower Upper
84 100
49 91.9 95.8 143.6#
51 37.7 30.9 46.3
86 27.5 50.3 75.5#

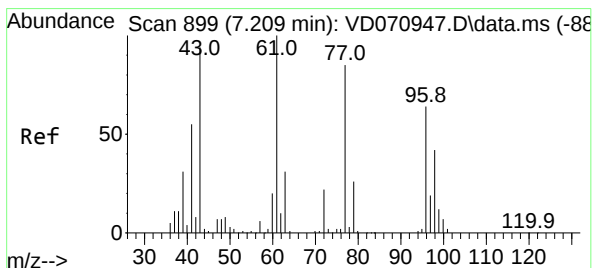
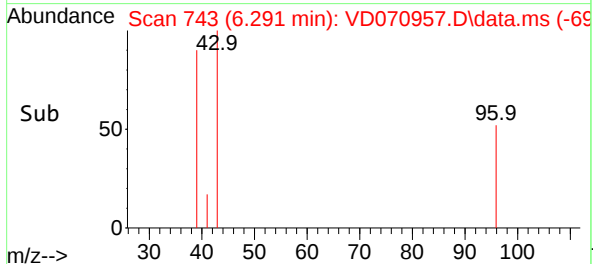
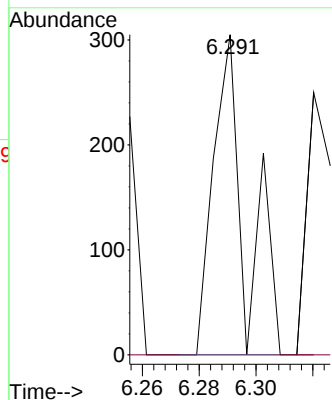
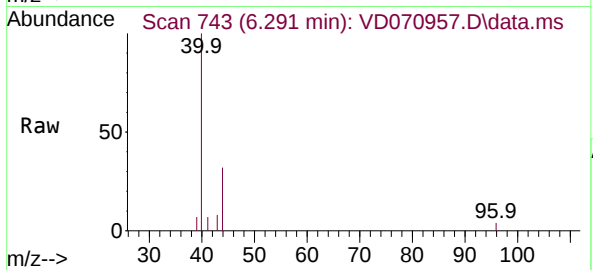




#23
 Vinyl Acetate
 Concen: 21.463 ug/l
 RT: 6.291 min Scan# 745
 Delta R.T. -0.012 min
 Lab File: VD070957.D
 Acq: 09 Nov 2021 18:41

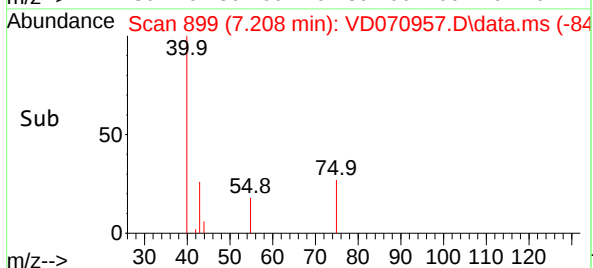
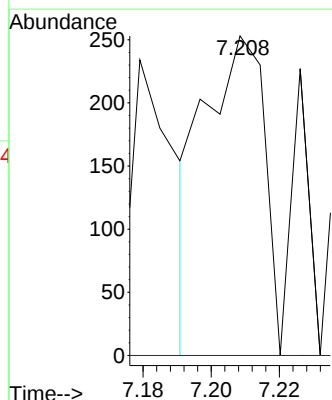
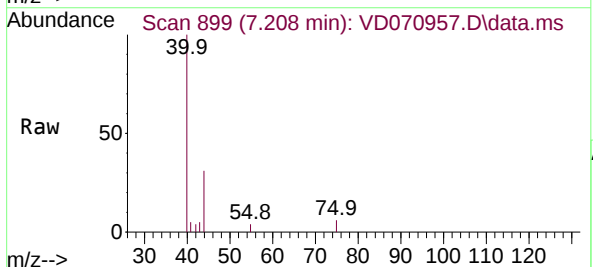
Instrument :
 MSVOA_D
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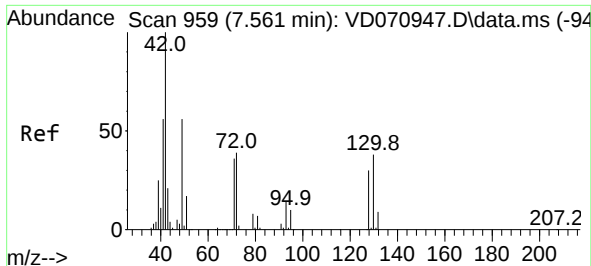
Tgt Ion: 43 Resp: 241
 Ion Ratio Lower Upper
 43 100
 86 0.0 8.2 12.4#



#25
 2-Butanone
 Concen: 23.870 ug/l
 RT: 7.208 min Scan# 899
 Delta R.T. -0.001 min
 Lab File: VD070957.D
 Acq: 09 Nov 2021 18:41

Tgt Ion: 43 Resp: 310
 Ion Ratio Lower Upper
 43 100
 72 0.0 23.8 35.6#





#29

Tetrahydrofuran

Concen: 1.373 ug/l

RT: 7.538 min Scan# 91

Delta R.T. -0.023 min

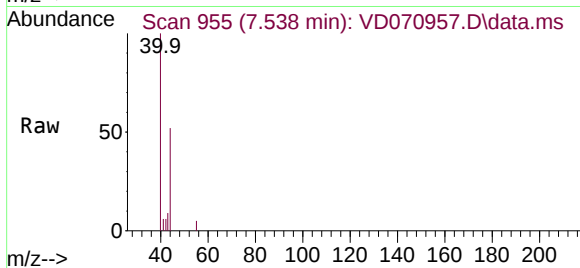
Lab File: VD070957.D

Acq: 09 Nov 2021 18:41

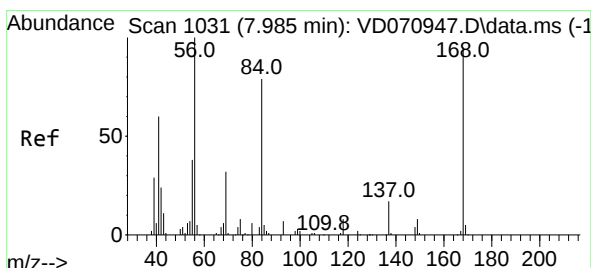
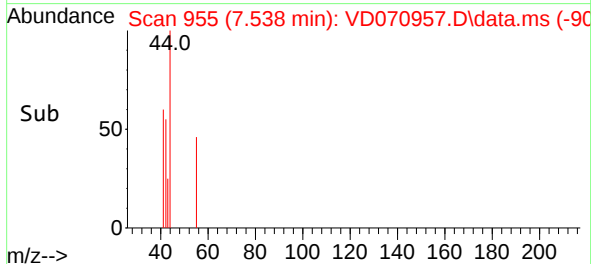
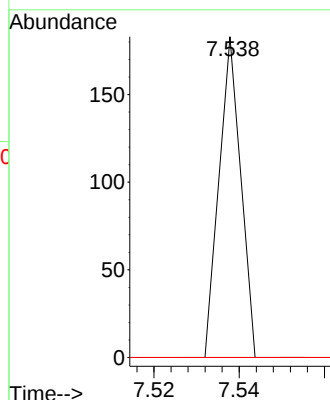
Instrument :

MSVOA_D

ClientSampleId :



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: 1.820 ug/l

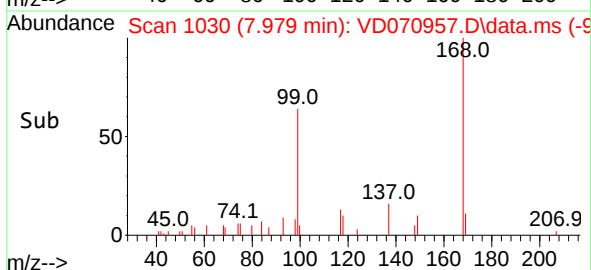
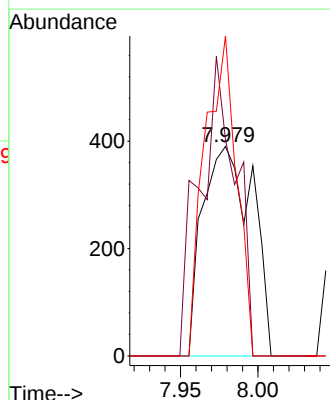
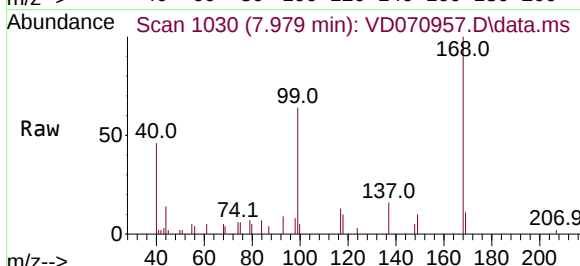
RT: 7.979 min Scan# 1030

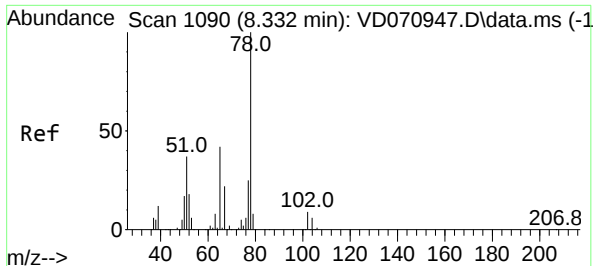
Delta R.T. -0.006 min

Lab File: VD070957.D

Acq: 09 Nov 2021 18:41

Tgt Ion:	56	Resp:	872
Ion	Ratio	Lower	Upper
56	100		
69	103.3	25.9	38.9#
84	152.8	64.3	96.5#





#33

1,2-Dichloroethane-d4

Concen: 73.165 ug/l

RT: 8.326 min Scan# 11089

Delta R.T. -0.006 min

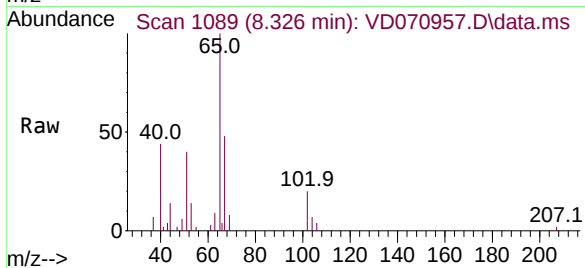
Lab File: VD070957.D

Acq: 09 Nov 2021 18:41

Instrument :

MSVOA_D

ClientSampleId :

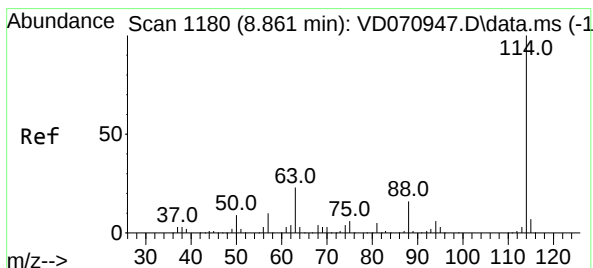
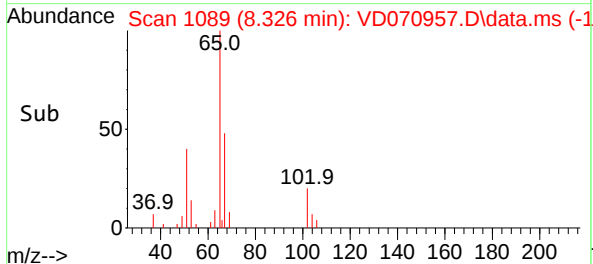
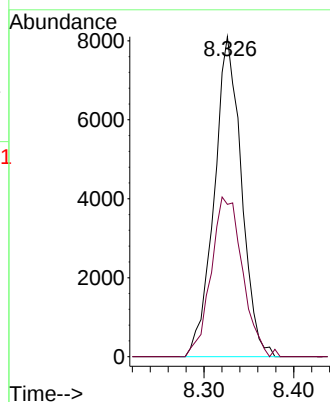


Tgt Ion: 65 Resp: 17042

Ion Ratio Lower Upper

65 100

67 57.6 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: VD070957.D

Acq: 09 Nov 2021 18:41

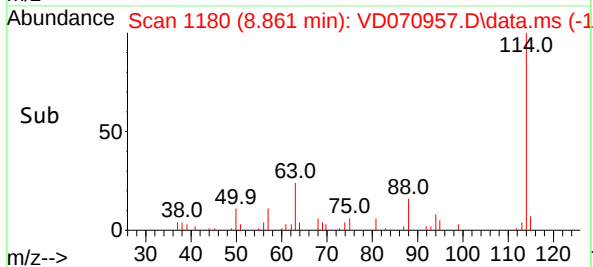
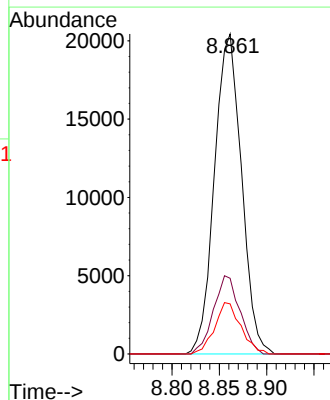
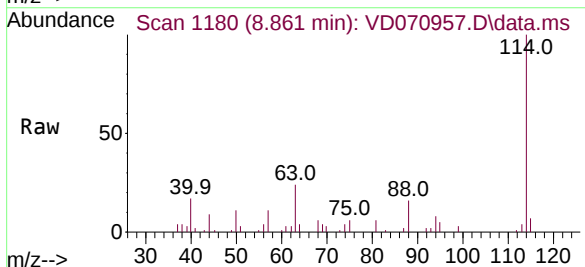
Tgt Ion: 114 Resp: 40570

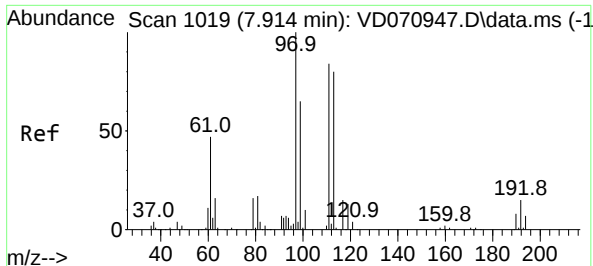
Ion Ratio Lower Upper

114 100

63 23.6 0.0 41.8

88 15.7 0.0 32.8





#35

Dibromofluoromethane

Concen: 51.579 ug/l

RT: 7.908 min Scan# 1018

Delta R.T. -0.006 min

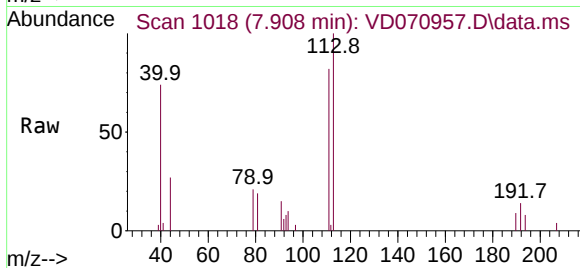
Lab File: VD070957.D

Acq: 09 Nov 2021 18:41

Instrument :

MSVOA_D

ClientSampleId :



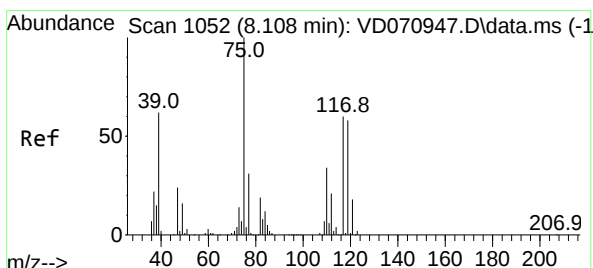
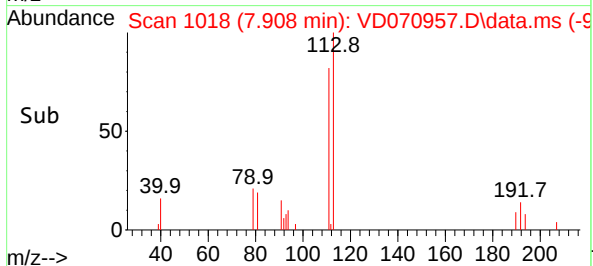
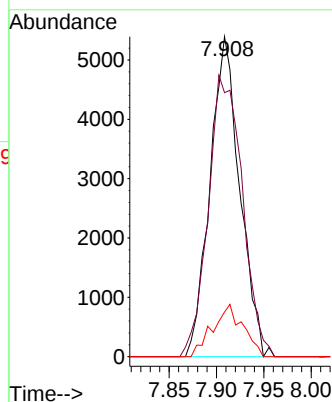
Tgt Ion:113 Resp: 11808

Ion Ratio Lower Upper

113 100

111 100.3 82.0 123.0

192 16.6 15.2 22.8



#36

1,1-Dichloropropene

Concen: 4.842 ug/l

RT: 7.967 min Scan# 1028

Delta R.T. -0.141 min

Lab File: VD070957.D

Acq: 09 Nov 2021 18:41

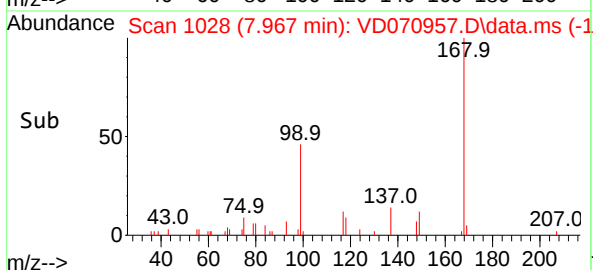
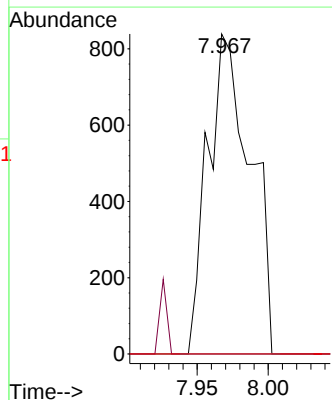
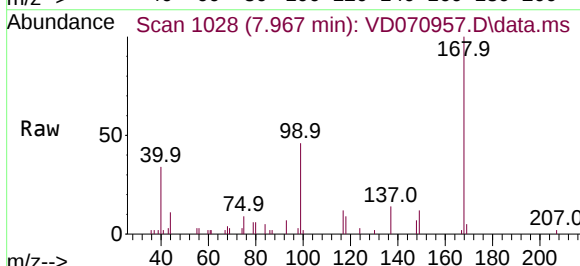
Tgt Ion: 75 Resp: 1754

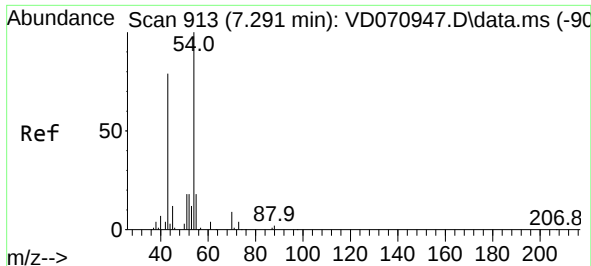
Ion Ratio Lower Upper

75 100

110 0.0 17.8 53.4#

77 0.0 24.8 37.2#





#37

Ethyl Acetate

Concen: 1.694 ug/l

RT: 7.297 min Scan# 913

Delta R.T. 0.006 min

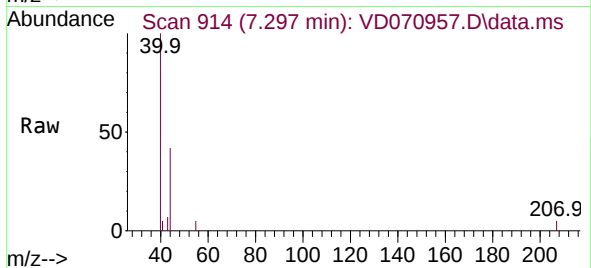
Lab File: VD070957.D

Acq: 09 Nov 2021 18:41

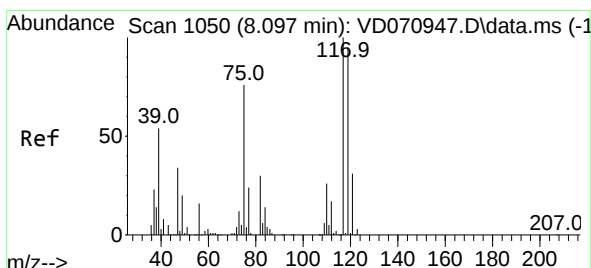
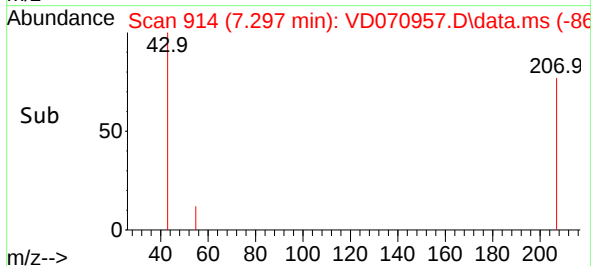
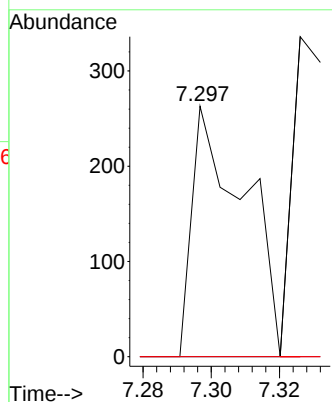
Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion:	43	Resp:	280
Ion	Ratio	Lower	Upper
43	100		
61	0.0	13.0	19.6#
70	0.0	8.7	13.1#



#38

Carbon Tetrachloride

Concen: 8.265 ug/l

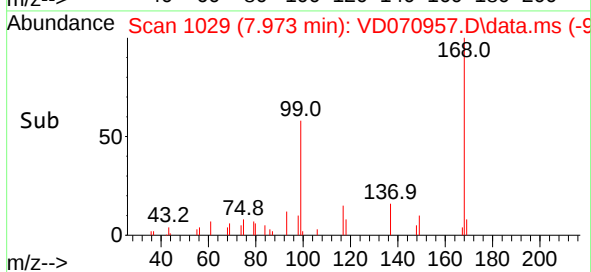
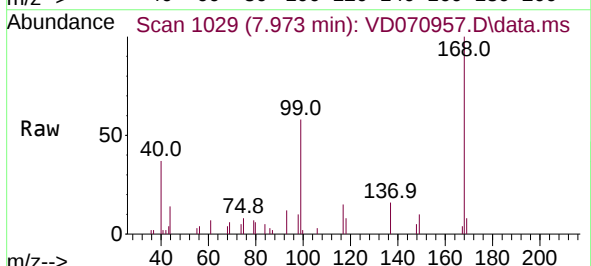
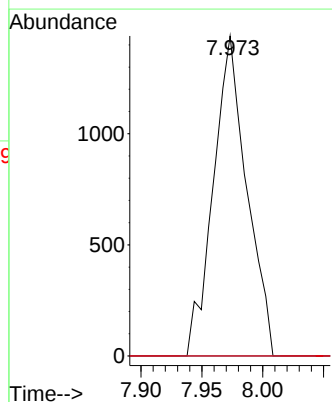
RT: 7.973 min Scan# 1029

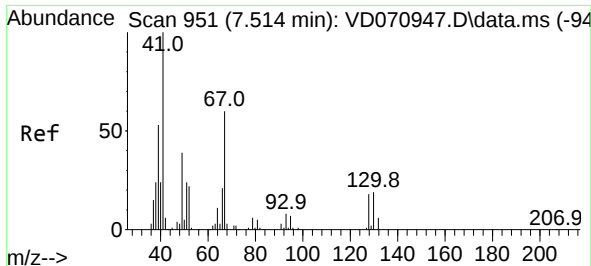
Delta R.T. -0.124 min

Lab File: VD070957.D

Acq: 09 Nov 2021 18:41

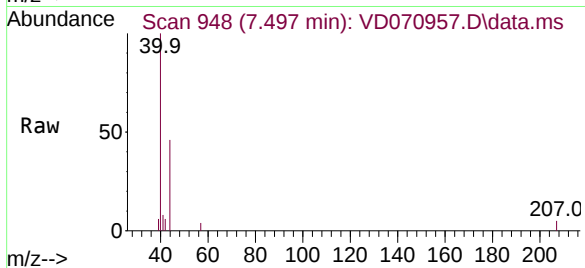
Tgt Ion:	117	Resp:	2757
Ion	Ratio	Lower	Upper
117	100		
119	0.0	75.8	113.6#
121	0.0	23.6	35.4#



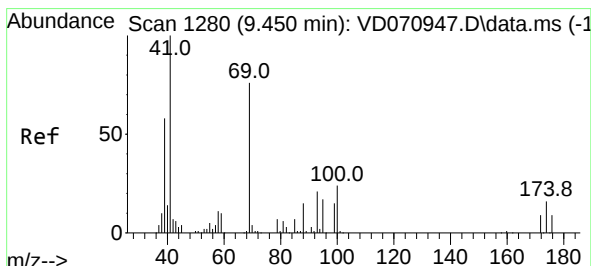
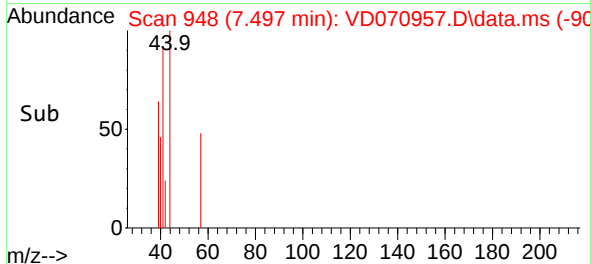
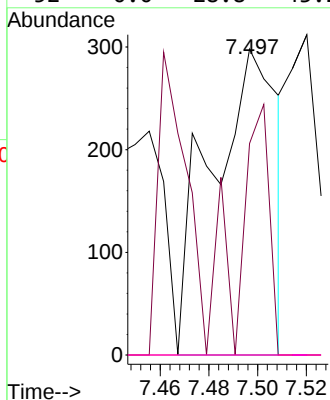


#41
Methacrylonitrile
Concen: 7.826 ug/l
RT: 7.497 min Scan# 94
Delta R.T. -0.017 min
Lab File: VD070957.D
Acq: 09 Nov 2021 18:41

Instrument :
MSVOA_D
ClientSampleId :

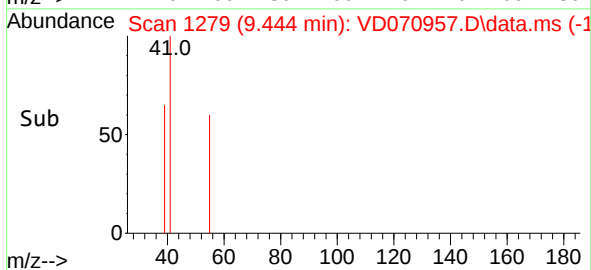
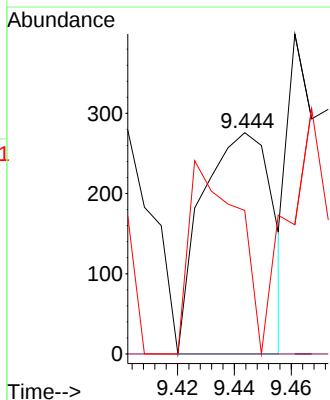
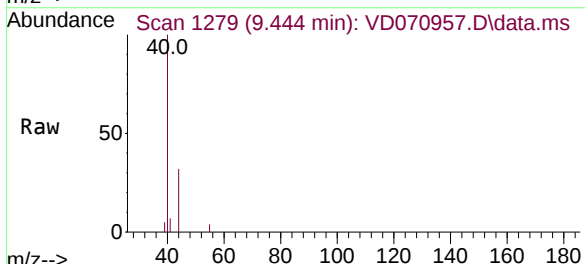


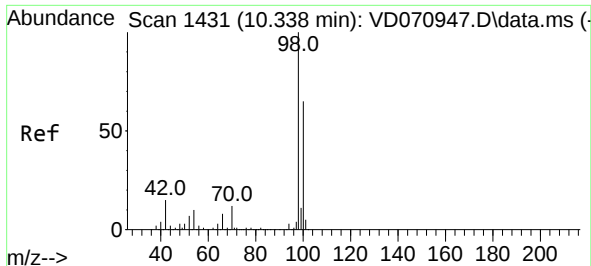
Tgt Ion: 41 Resp: 565
Ion Ratio Lower Upper
41 100
39 38.9 60.2 90.4#
67 0.0 74.8 112.2#
52 0.0 28.8 43.2#



#48
Methyl methacrylate
Concen: 2.774 ug/l
RT: 9.444 min Scan# 1279
Delta R.T. -0.006 min
Lab File: VD070957.D
Acq: 09 Nov 2021 18:41

Tgt Ion: 41 Resp: 476
Ion Ratio Lower Upper
41 100
69 0.0 69.8 104.6#
39 60.1 35.6 53.4#

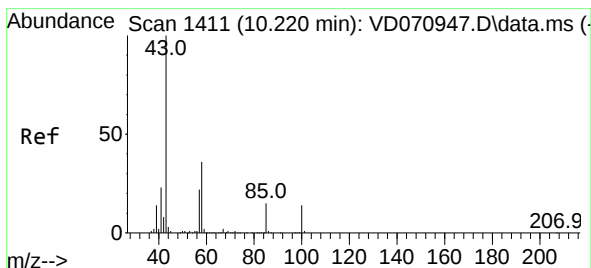
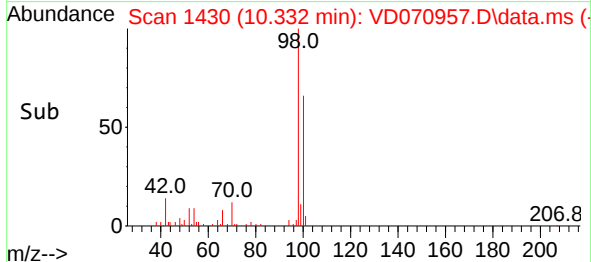
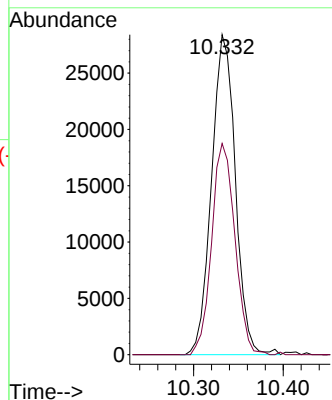
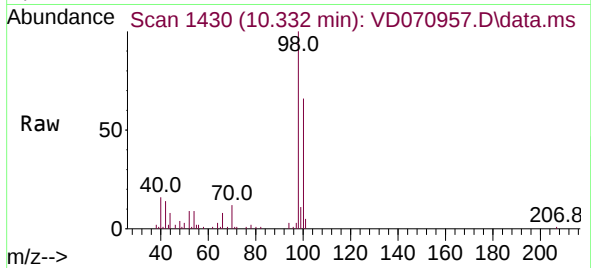




#50
Toluene-d8
Concen: 58.389 ug/l
RT: 10.332 min Scan# 1431
Delta R.T. -0.006 min
Lab File: VD070957.D
Acq: 09 Nov 2021 18:41

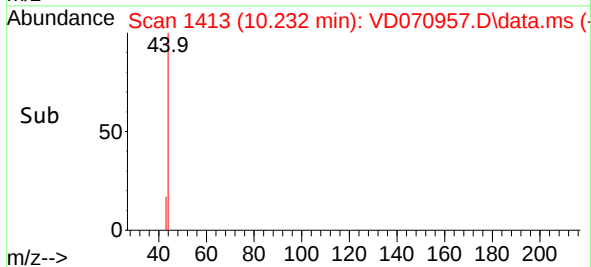
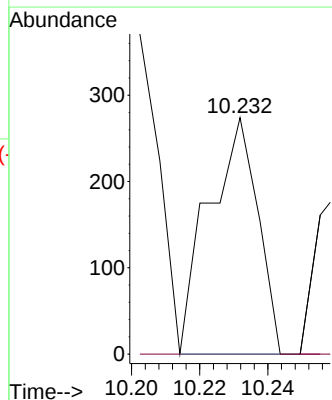
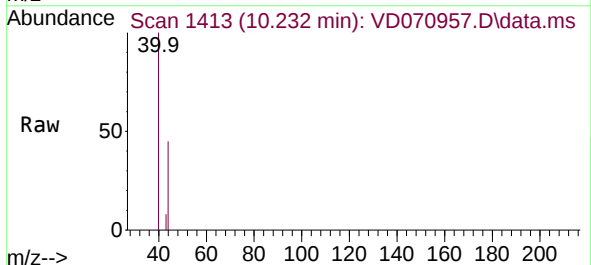
Instrument :
MSVOA_D
ClientSampleId :

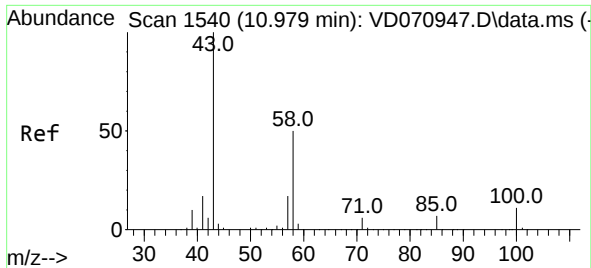
Tgt Ion: 98 Resp: 52348
Ion Ratio Lower Upper
98 100
100 64.6 51.8 77.6



#51
4-Methyl-2-Pentanone
Concen: 1.622 ug/l
RT: 10.232 min Scan# 1413
Delta R.T. 0.012 min
Lab File: VD070957.D
Acq: 09 Nov 2021 18:41

Tgt Ion: 43 Resp: 275
Ion Ratio Lower Upper
43 100
58 0.0 33.1 49.7#

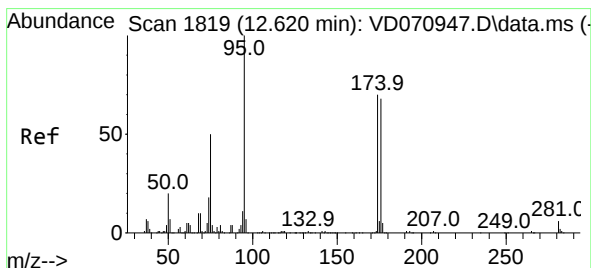
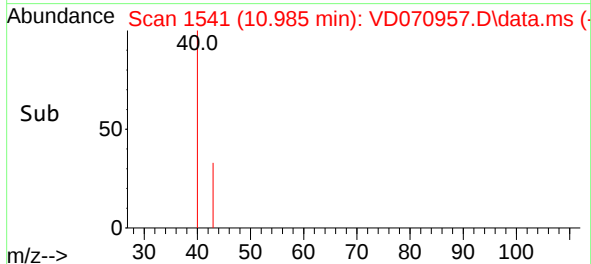
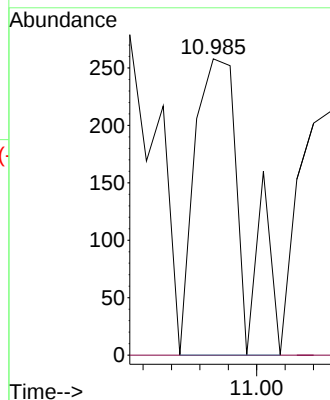
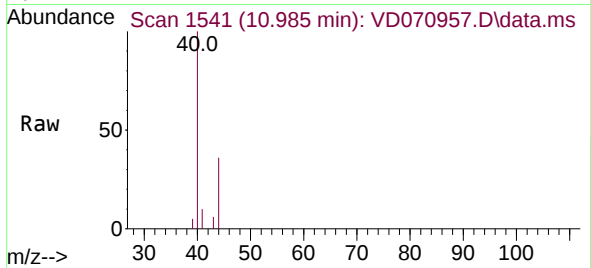




#59
2-Hexanone
Concen: 18.117 ug/l
RT: 10.985 min Scan# 11
Delta R.T. 0.006 min
Lab File: VD070957.D
Acq: 09 Nov 2021 18:41

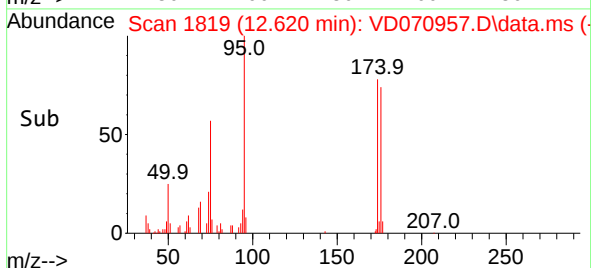
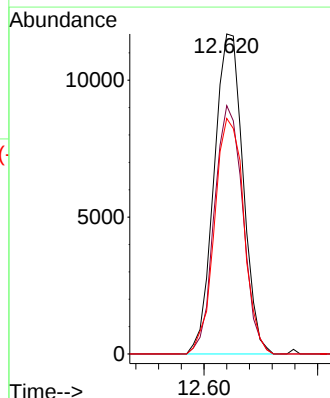
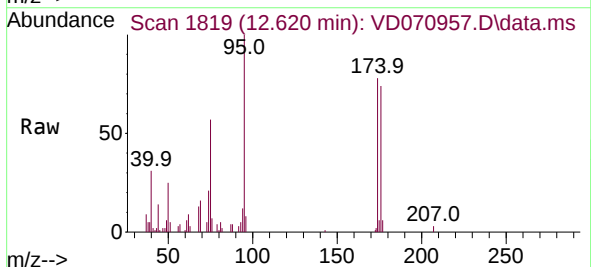
Instrument :
MSVOA_D
ClientSampleId :

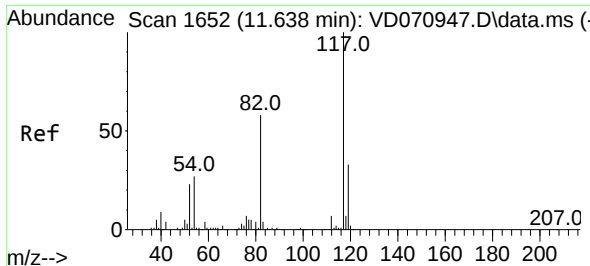
Tgt Ion: 43 Resp: 309
Ion Ratio Lower Upper
43 100
58 0.0 28.7 86.1#



#62
4-Bromofluorobenzene
Concen: 64.212 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.000 min
Lab File: VD070957.D
Acq: 09 Nov 2021 18:41

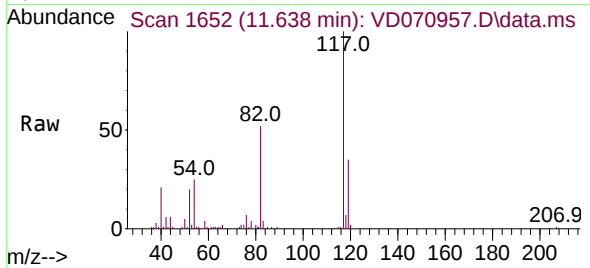
Tgt Ion: 95 Resp: 20728
Ion Ratio Lower Upper
95 100
174 76.2 0.0 159.4
176 74.5 0.0 154.0



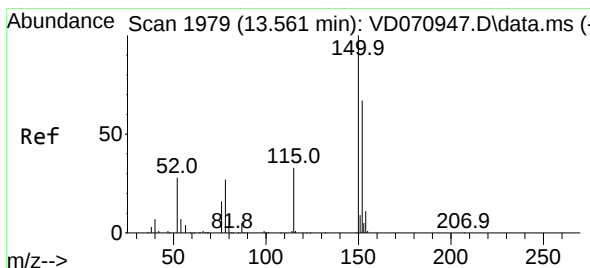
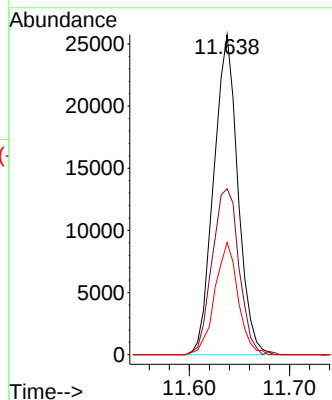
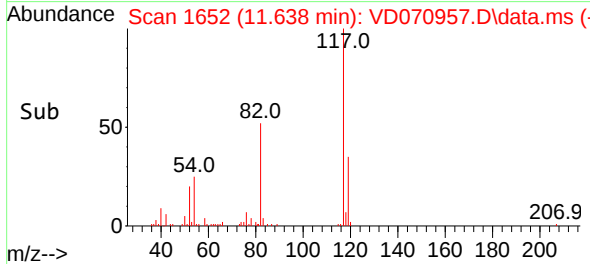


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1170
Delta R.T. -0.000 min
Lab File: VD070957.D
Acq: 09 Nov 2021 18:41

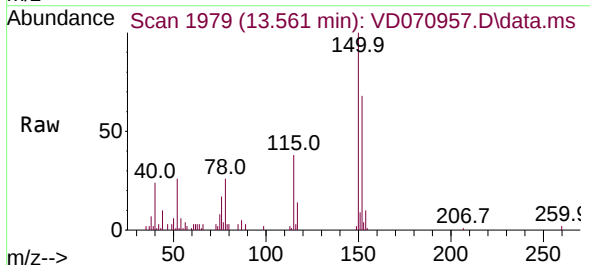
Instrument :
MSVOA_D
ClientSampleId :



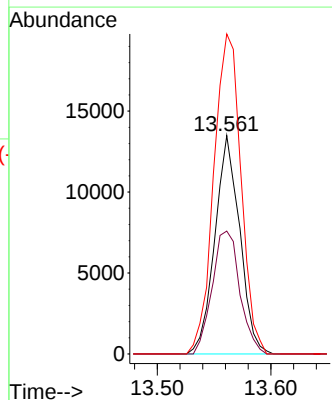
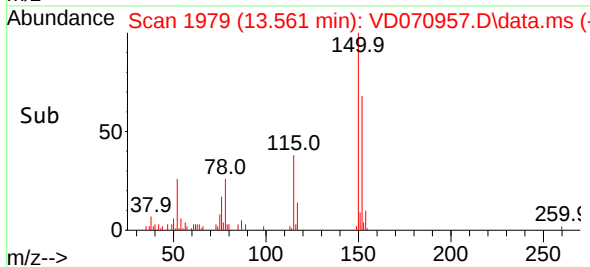
Tgt Ion:117 Resp: 43080
Ion Ratio Lower Upper
117 100
82 51.9 44.7 67.1
119 35.1 26.2 39.4



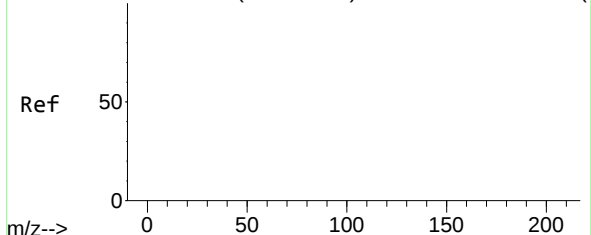
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.561 min Scan# 1979
Delta R.T. 0.000 min
Lab File: VD070957.D
Acq: 09 Nov 2021 18:41



Tgt Ion:152 Resp: 20530
Ion Ratio Lower Upper
152 100
115 62.4 29.8 89.3
150 160.1 0.0 349.2



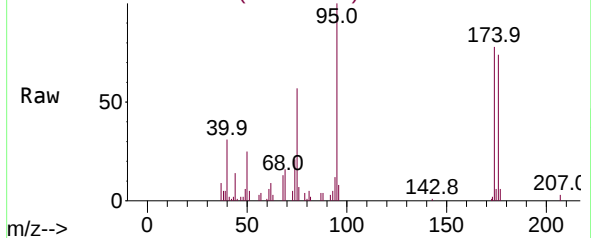
Abundance Scan 1847 (12.785 min): VD070947.D\data.ms (-



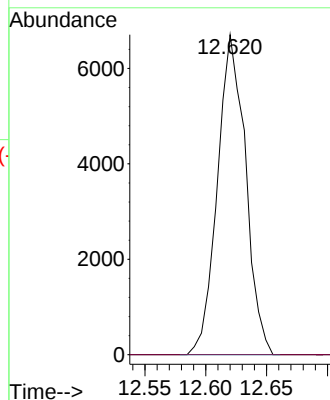
#76
1,2,3-Trichloropropane
Concen: 61.528 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.165 min
Lab File: VD070957.D
Acq: 09 Nov 2021 18:41

Instrument :
MSVOA_D
ClientSampleId :

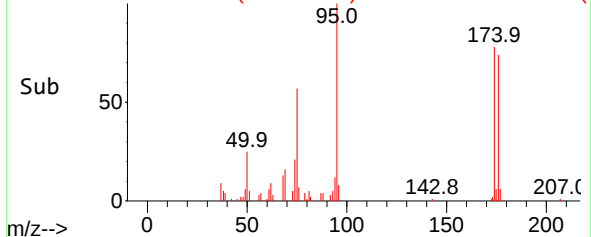
Abundance Scan 1819 (12.620 min): VD070957.D\data.ms (-



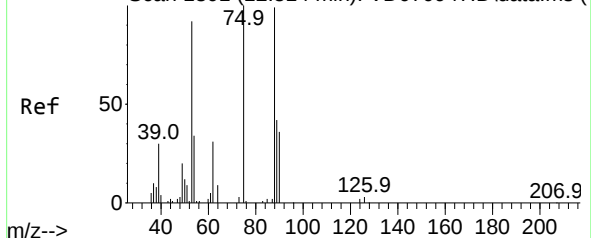
Tgt Ion: 75 Resp: 10790
Ion Ratio Lower Upper
75 100
77 0.0 158.4 475.3#



Abundance Scan 1819 (12.620 min): VD070957.D\data.ms (-



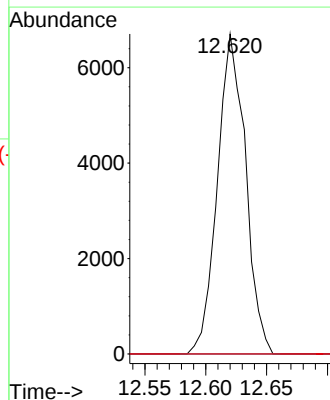
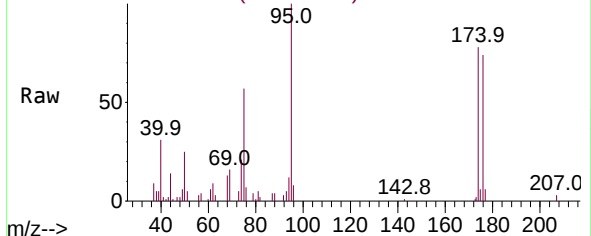
Abundance Scan 1801 (12.514 min): VD070947.D\data.ms (-



#81
trans-1,4-Dichloro-2-butene
Concen: 113.925 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.106 min
Lab File: VD070957.D
Acq: 09 Nov 2021 18:41

Tgt Ion: 75 Resp: 10790
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): VD070957.D\data.ms (-



Abundance Scan 1819 (12.620 min): VD070957.D\data.ms (-

