

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD122821\
 Data File : VD071505.D
 Acq On : 28 Dec 2021 16:12
 Operator : VA/SY
 Sample : M5224-04
 Misc : 5.01G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SB-4

Quant Time: Dec 28 16:58:00 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D122221S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 23 08:20:24 2021
 Response via : Initial Calibration

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

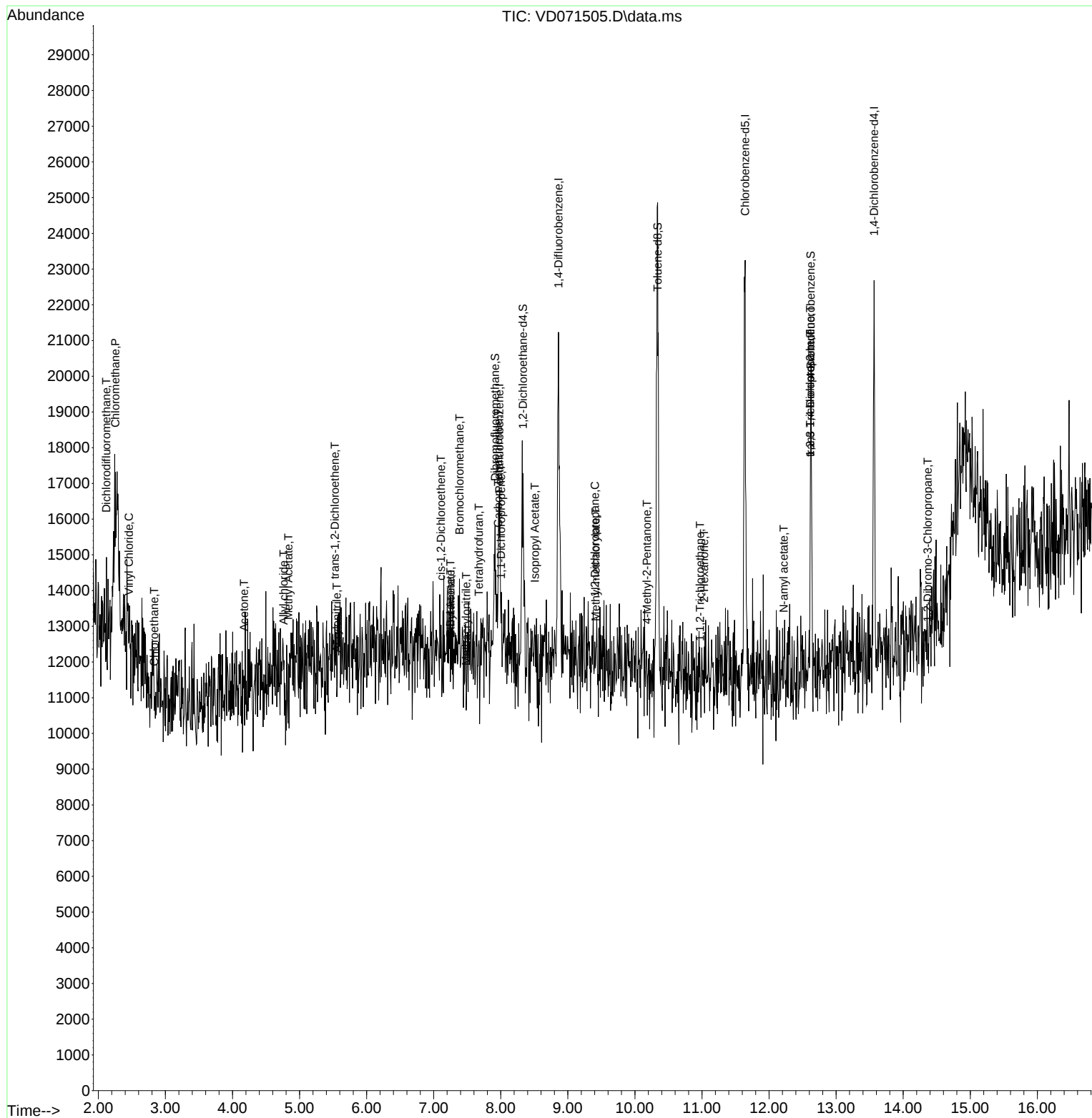
Internal Standards						
1) Pentafluorobenzene	7.979	168	3819	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	7004	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.643	117	6580	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	2722	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.332	65	3693	72.812	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 145.620%	
35) Dibromofluoromethane	7.914	113	2267	48.160	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 96.320%	
50) Toluene-d8	10.338	98	8218	46.198	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 92.400%	
62) 4-Bromofluorobenzene	12.620	95	2366	37.430	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 74.860%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.120	85	54	1.349	ug/l #	44
3) Chloromethane	2.256	50	91	1.776	ug/l #	42
4) Vinyl Chloride	2.456	62	64	1.042	ug/l #	42
6) Chloroethane	2.832	64	72	1.767	ug/l #	39
11) Tert butyl alcohol	4.991	59	73	Below Cal	#	71
14) Allyl chloride	4.761	41	79	1.050	ug/l #	1
15) Acrylonitrile	5.555	53	73	6.888	ug/l #	17
16) Acetone	4.173	43	91	7.143	ug/l #	40
18) Methyl Acetate	4.832	43	68	1.729	ug/l #	51
20) Methylene Chloride	4.967	84	64	Below Cal	#	1
21) trans-1,2-Dichloroethene	5.526	96	62	1.345	ug/l #	1
25) 2-Butanone	7.250	43	62	4.074	ug/l #	45
27) cis-1,2-Dichloroethene	7.108	96	58	1.138	ug/l #	1
28) Bromochloromethane	7.385	49	79	2.195	ug/l #	14
29) Tetrahydrofuran	7.673	42	141	15.433	ug/l #	34
36) 1,1-Dichloropropene	8.002	75	109	1.449	ug/l #	41
37) Ethyl Acetate	7.250	43	62	1.786	ug/l #	66
38) Carbon Tetrachloride	7.961	117	288	3.882	ug/l #	12
41) Methacrylonitrile	7.485	41	82	3.976	ug/l #	12
43) Isopropyl Acetate	8.508	43	132	1.916	ug/l #	47
45) 1,2-Dichloropropane	9.402	63	68	1.296	ug/l #	44
48) Methyl methacrylate	9.414	41	54	1.584	ug/l #	1
51) 4-Methyl-2-Pentanone	10.179	43	93	2.566	ug/l #	34
55) 1,1,2-Trichloroethane	10.973	97	66	1.794	ug/l #	16
59) 2-Hexanone	11.032	43	156	6.088	ug/l #	22
74) N-amyl acetate	12.220	43	159	2.824	ug/l #	40
76) 1,2,3-Trichloropropane	12.614	75	1898	58.685	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.614	75	1898	165.816	ug/l #	18
92) 1,2-Dibromo-3-Chloropr...	14.367	75	58	8.815	ug/l #	4

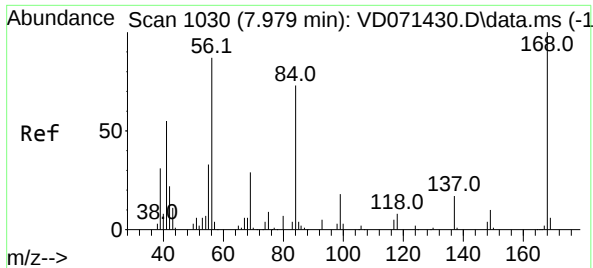
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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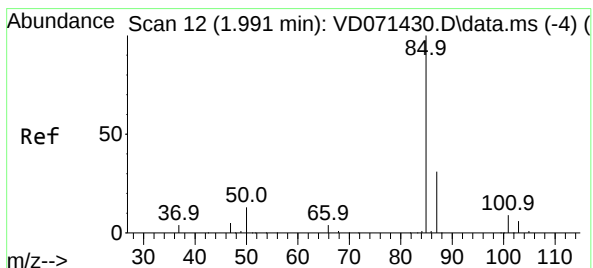
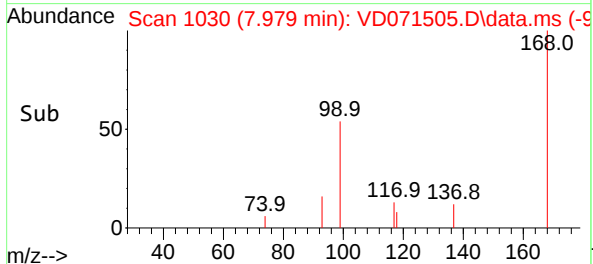
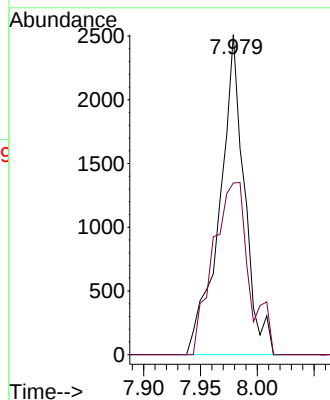
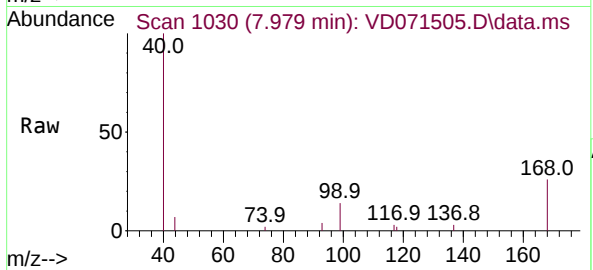




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.979 min Scan# 10
Delta R.T. 0.006 min
Lab File: VD071505.D
Acq: 28 Dec 2021 16:12

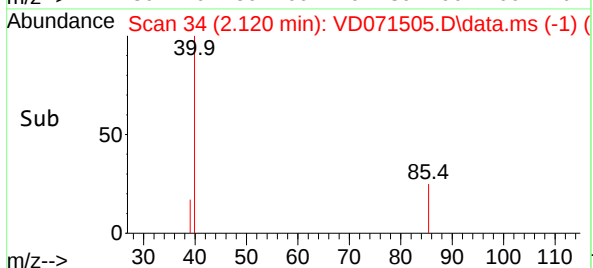
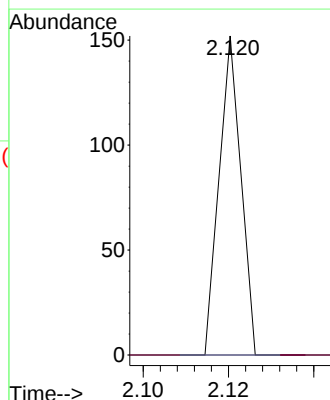
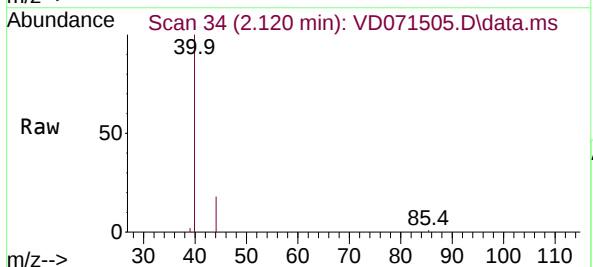
Instrument :
MSVOA_D
ClientSampleId :
SB-4

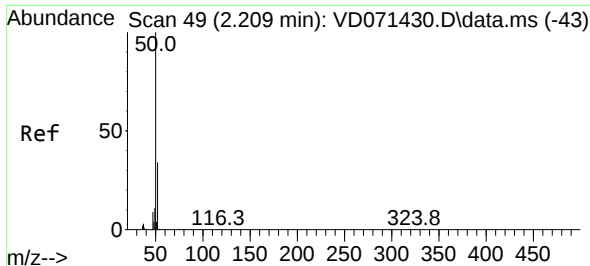
Tgt Ion:168 Resp: 3819
Ion Ratio Lower Upper
168 100
99 53.6 46.6 69.8



#2
Dichlorodifluoromethane
Concen: 1.349 ug/l
RT: 2.120 min Scan# 34
Delta R.T. 0.129 min
Lab File: VD071505.D
Acq: 28 Dec 2021 16:12

Tgt Ion: 85 Resp: 54
Ion Ratio Lower Upper
85 100
87 0.0 15.2 45.6#

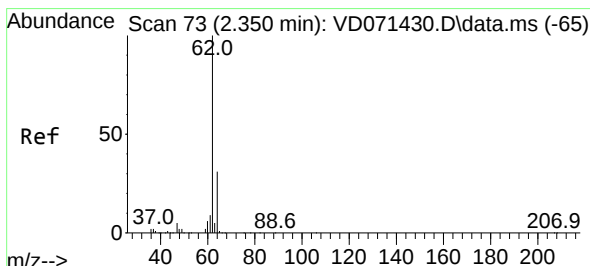
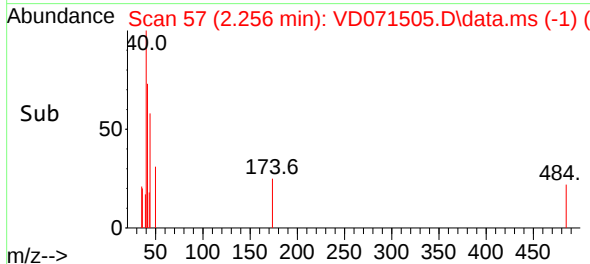
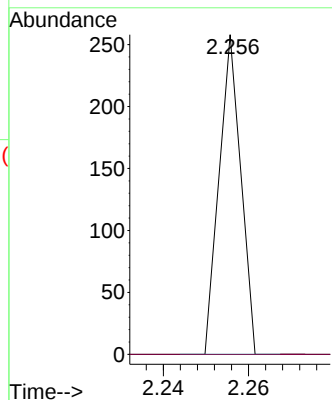
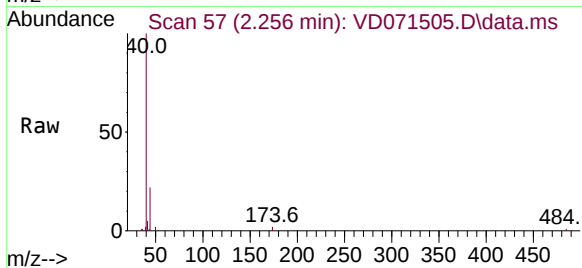




#3
Chloromethane
Concen: 1.776 ug/l
RT: 2.256 min Scan# 51
Delta R.T. 0.047 min
Lab File: VD071505.D
Acq: 28 Dec 2021 16:12

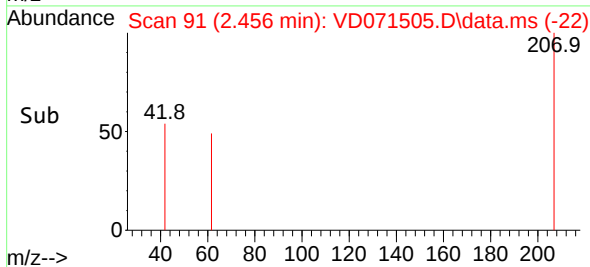
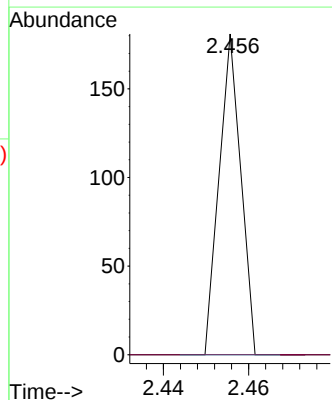
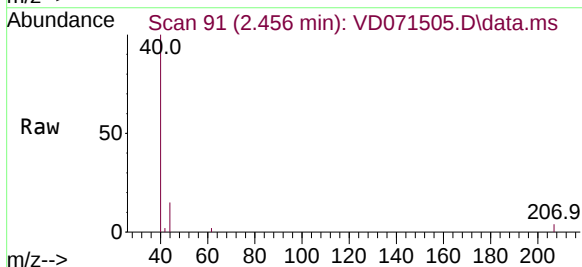
Instrument :
MSVOA_D
ClientSampleId :
SB-4

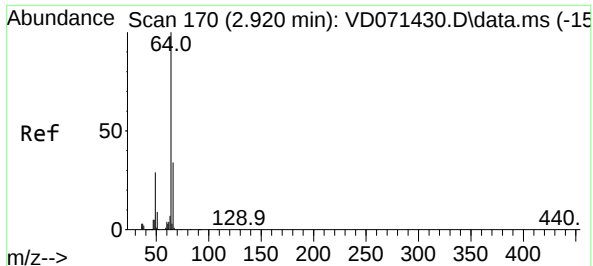
Tgt Ion: 50 Resp: 91
Ion Ratio Lower Upper
50 100
52 0.0 25.8 38.8#



#4
Vinyl Chloride
Concen: 1.042 ug/l
RT: 2.456 min Scan# 91
Delta R.T. 0.106 min
Lab File: VD071505.D
Acq: 28 Dec 2021 16:12

Tgt Ion: 62 Resp: 64
Ion Ratio Lower Upper
62 100
64 0.0 26.0 39.0#

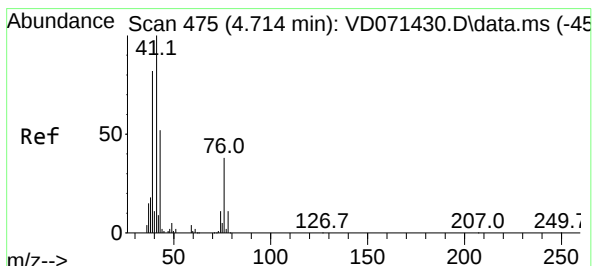
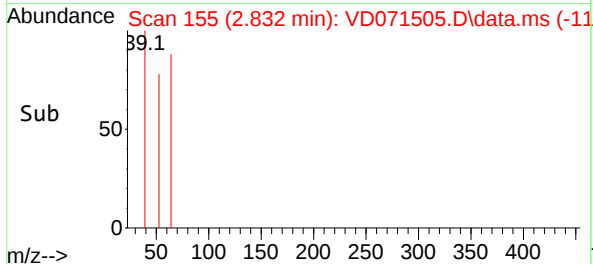
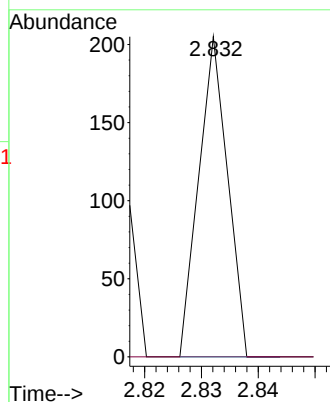
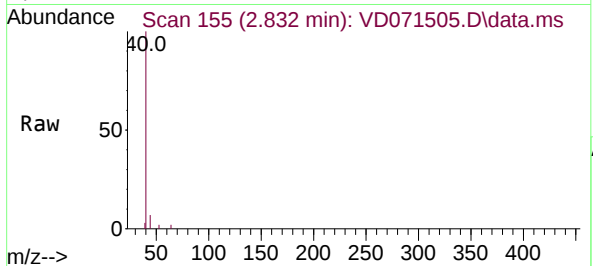




#6
Chloroethane
Concen: 1.767 ug/l
RT: 2.832 min Scan# 11
Delta R.T. -0.083 min
Lab File: VD071505.D
Acq: 28 Dec 2021 16:12

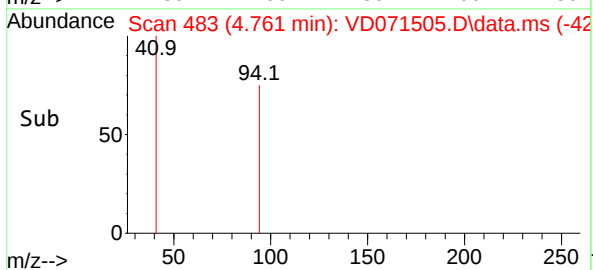
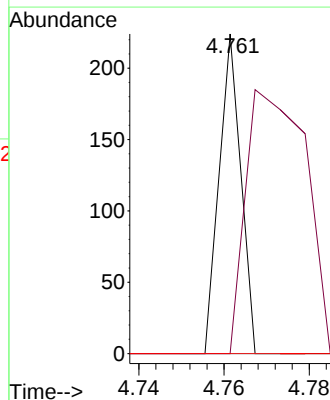
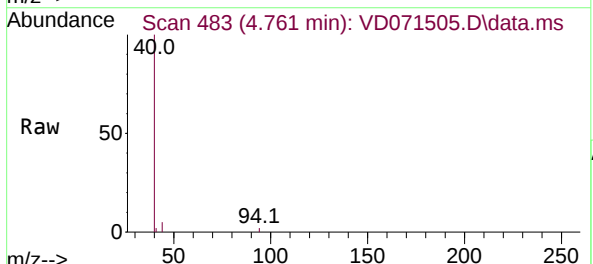
Instrument :
MSVOA_D
ClientSampleId :
SB-4

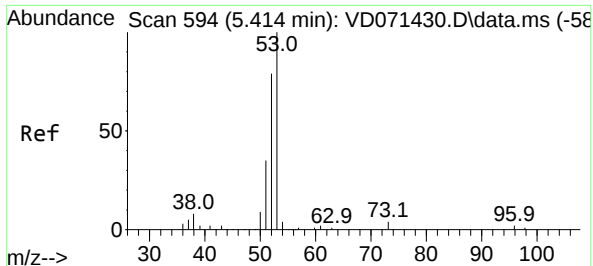
Tgt Ion: 64 Resp: 72
Ion Ratio Lower Upper
64 100
66 0.0 29.0 43.4#



#14
Allyl chloride
Concen: 1.050 ug/l
RT: 4.761 min Scan# 483
Delta R.T. 0.058 min
Lab File: VD071505.D
Acq: 28 Dec 2021 16:12

Tgt Ion: 41 Resp: 79
Ion Ratio Lower Upper
41 100
39 227.8 45.6 68.4#
76 0.0 30.2 45.4#





#15

Acrylonitrile

Concen: 6.888 ug/l

RT: 5.555 min Scan# 61

Delta R.T. 0.135 min

Lab File: VD071505.D

Acq: 28 Dec 2021 16:12

Instrument :

MSVOA_D

ClientSampleId :

SB-4

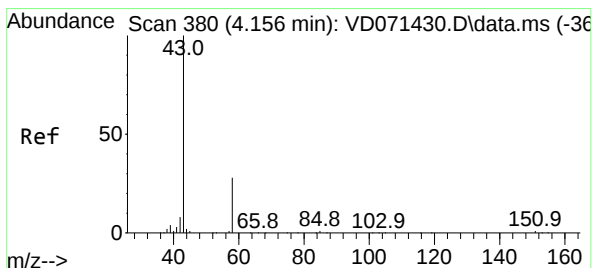
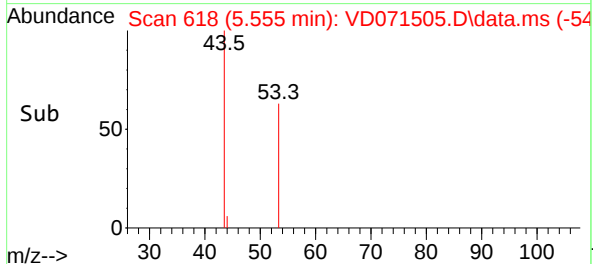
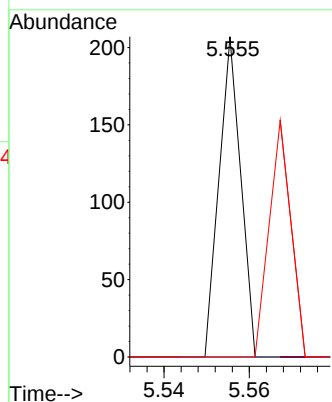
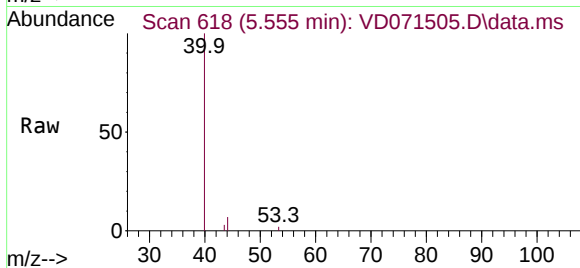
Tgt Ion: 53 Resp: 73

Ion Ratio Lower Upper

53 100

52 0.0 63.8 95.8#

51 74.0 28.5 42.7#



#16

Acetone

Concen: 7.143 ug/l

RT: 4.173 min Scan# 383

Delta R.T. 0.017 min

Lab File: VD071505.D

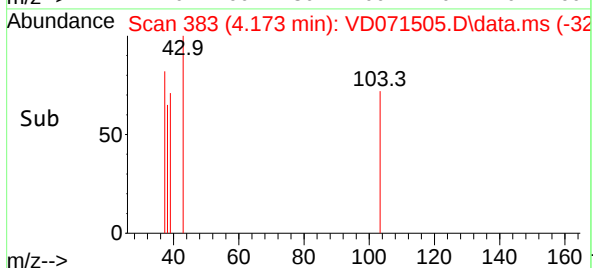
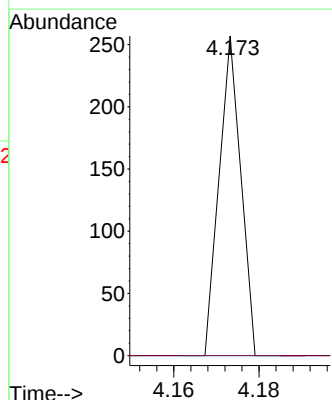
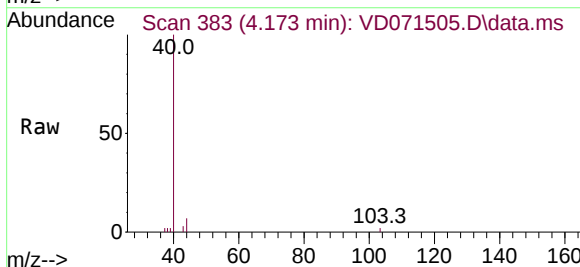
Acq: 28 Dec 2021 16:12

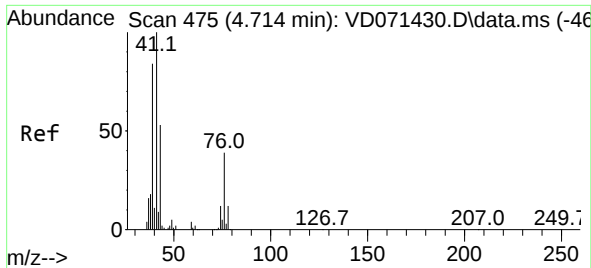
Tgt Ion: 43 Resp: 91

Ion Ratio Lower Upper

43 100

58 0.0 27.8 41.8#





#18

Methyl Acetate

Concen: 1.729 ug/l

RT: 4.832 min Scan# 495

Delta R.T. 0.112 min

Lab File: VD071505.D

Acq: 28 Dec 2021 16:12

Instrument :

MSVOA_D

ClientSampleId :

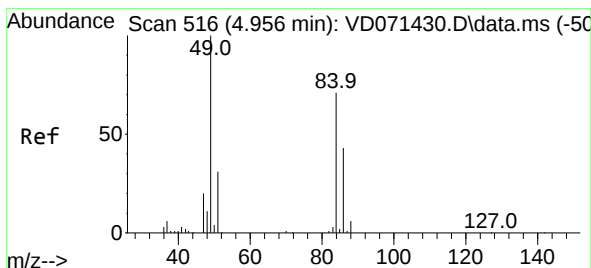
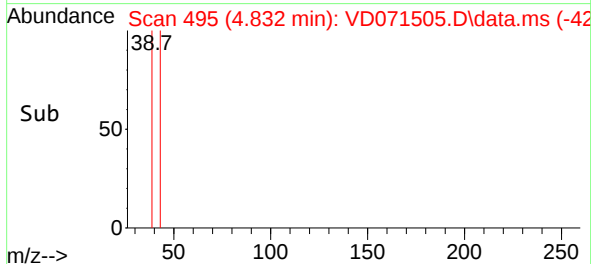
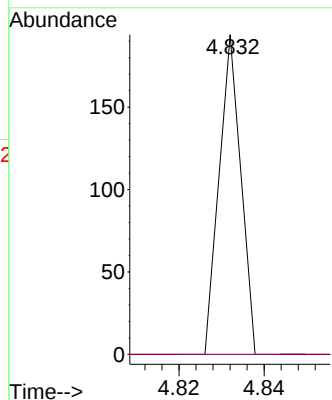
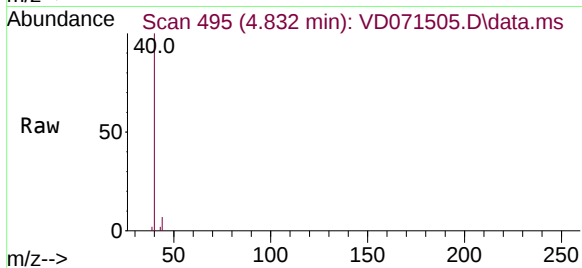
SB-4

Tgt Ion: 43 Resp: 68

Ion Ratio Lower Upper

43 100

74 0.0 19.3 28.9#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.967 min Scan# 518

Delta R.T. 0.006 min

Lab File: VD071505.D

Acq: 28 Dec 2021 16:12

Tgt Ion: 84 Resp: 64

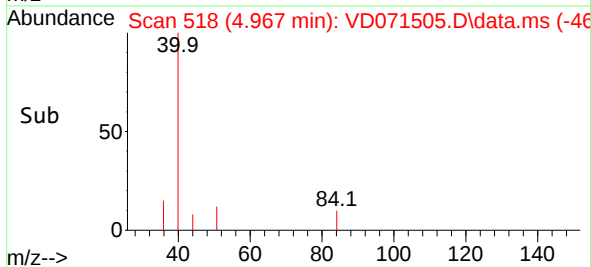
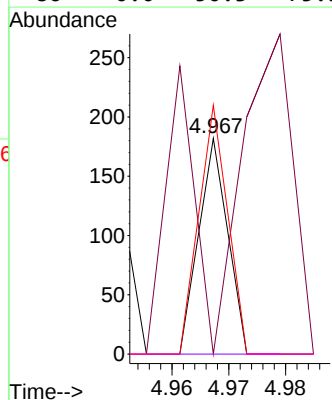
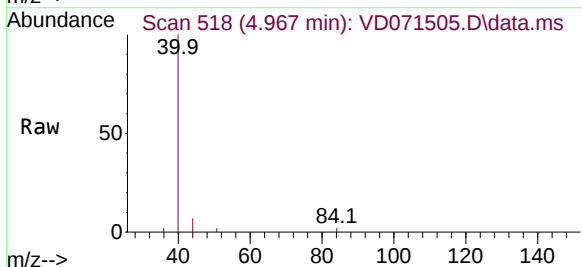
Ion Ratio Lower Upper

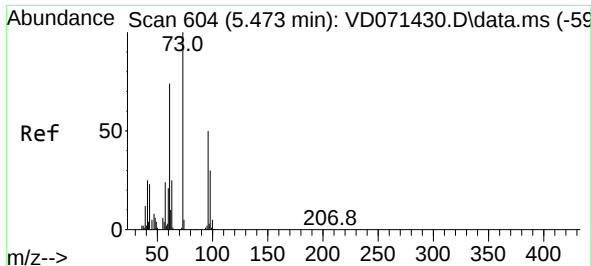
84 100

49 0.0 95.8 143.6#

51 115.4 30.9 46.3#

86 0.0 50.3 75.5#

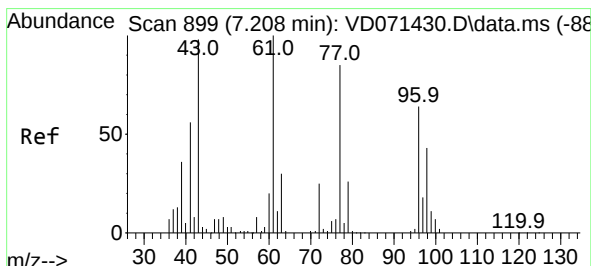
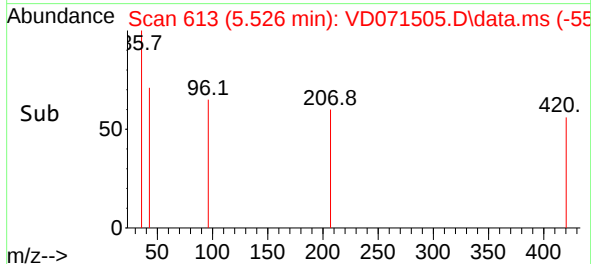
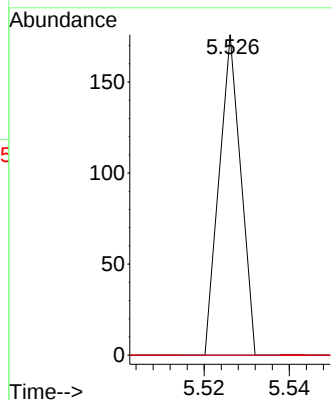
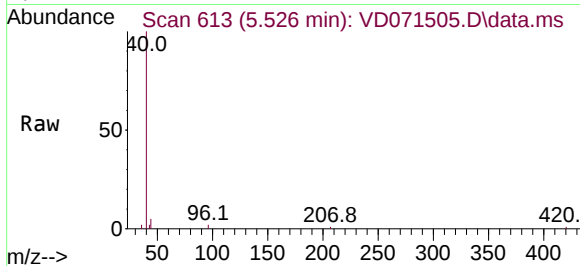




#21
trans-1,2-Dichloroethene
Concen: 1.345 ug/l
RT: 5.526 min Scan# 61
Delta R.T. 0.053 min
Lab File: VD071505.D
Acq: 28 Dec 2021 16:12

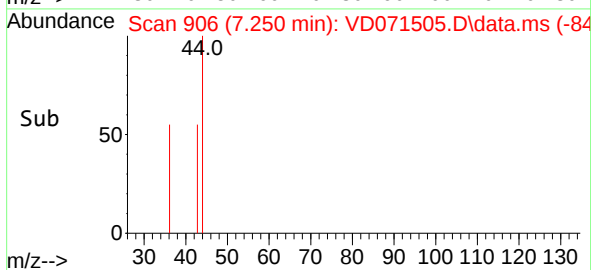
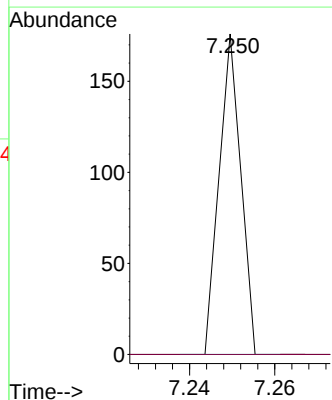
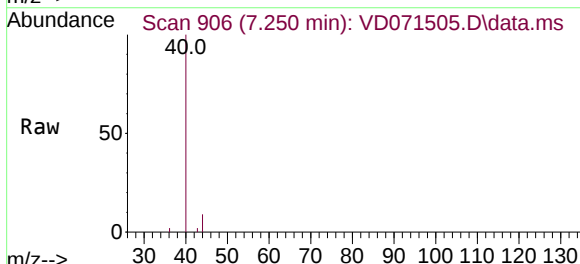
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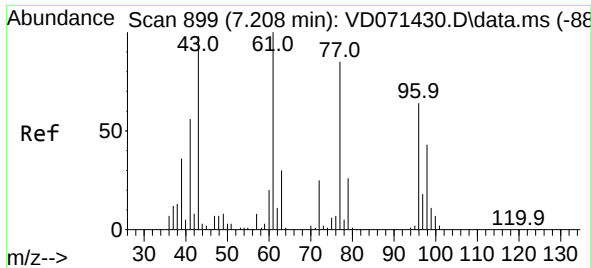
Tgt Ion: 96 Resp: 62
Ion Ratio Lower Upper
96 100
61 0.0 102.1 153.1#
98 0.0 50.1 75.1#



#25
2-Butanone
Concen: 4.074 ug/l
RT: 7.250 min Scan# 906
Delta R.T. 0.042 min
Lab File: VD071505.D
Acq: 28 Dec 2021 16:12

Tgt Ion: 43 Resp: 62
Ion Ratio Lower Upper
43 100
72 0.0 23.8 35.6#

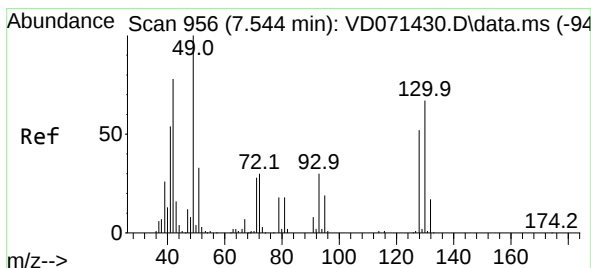
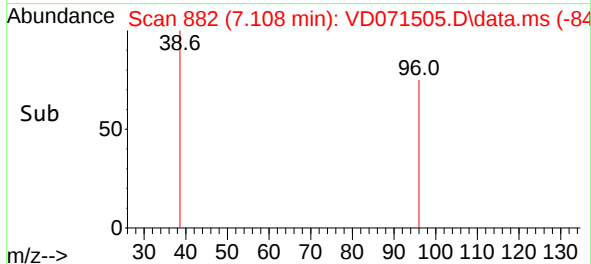
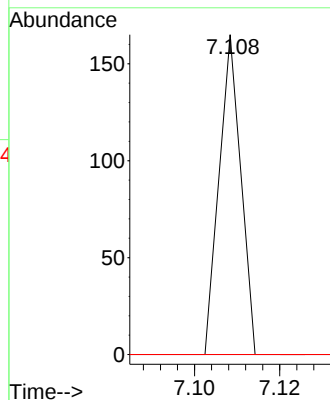
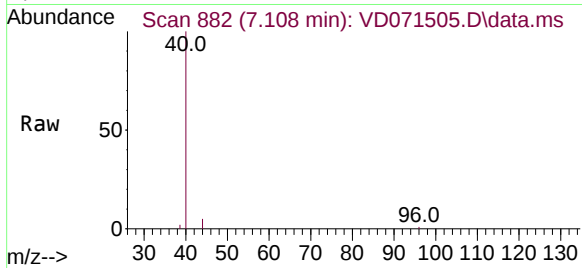




#27
 cis-1,2-Dichloroethene
 Concen: 1.138 ug/l
 RT: 7.108 min Scan# 81
 Delta R.T. -0.100 min
 Lab File: VD071505.D
 Acq: 28 Dec 2021 16:12

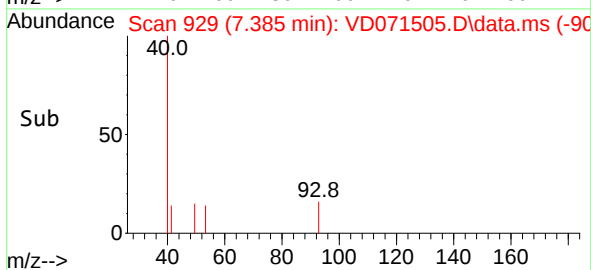
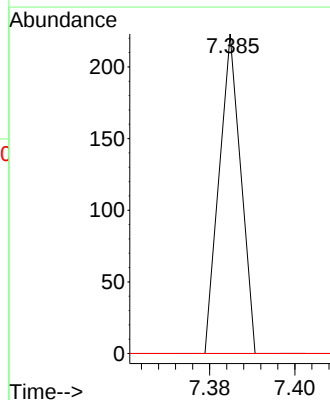
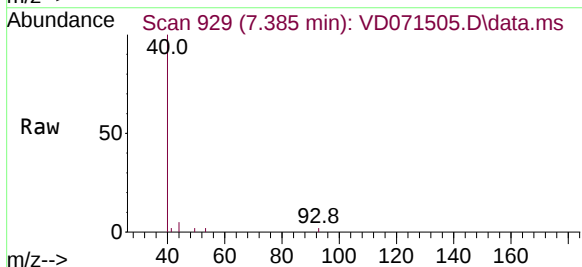
Instrument :
 MSVOA_D
 ClientSampleId :
 SB-4

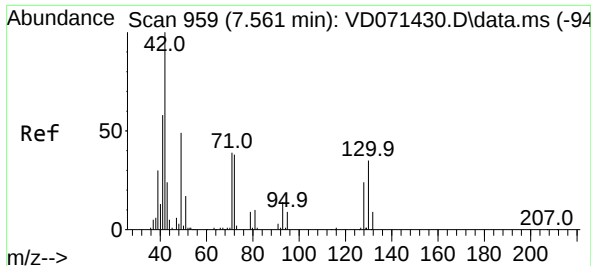
Tgt Ion:	96	Resp:	58
Ion	Ratio	Lower	Upper
96	100		
61	0.0	0.0	288.6
98	0.0	0.0	129.2



#28
 Bromochloromethane
 Concen: 2.195 ug/l
 RT: 7.385 min Scan# 929
 Delta R.T. -0.153 min
 Lab File: VD071505.D
 Acq: 28 Dec 2021 16:12

Tgt Ion:	49	Resp:	79
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.0
130	0.0	60.2	90.2

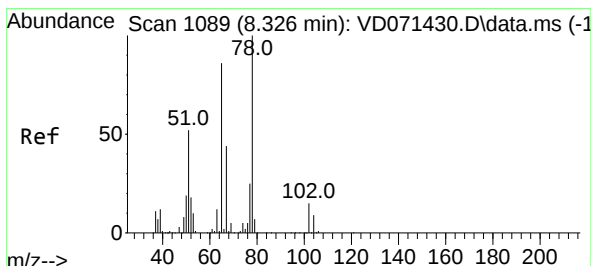
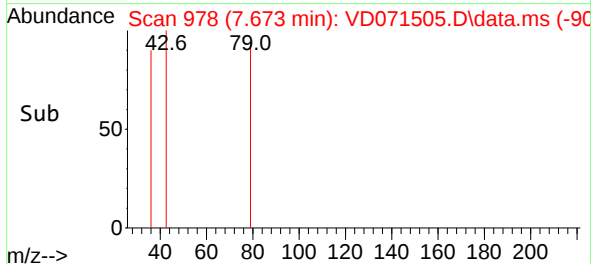
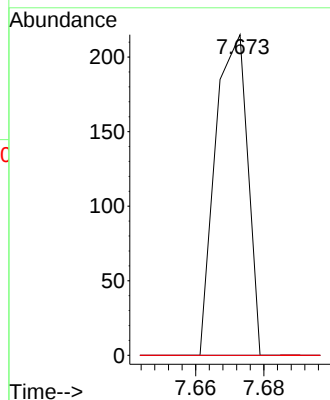
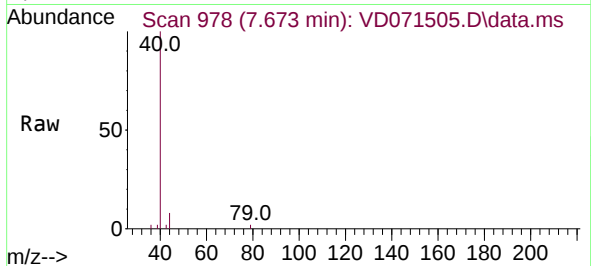




#29
Tetrahydrofuran
Concen: 15.433 ug/l
RT: 7.673 min Scan# 91
Delta R.T. 0.118 min
Lab File: VD071505.D
Acq: 28 Dec 2021 16:12

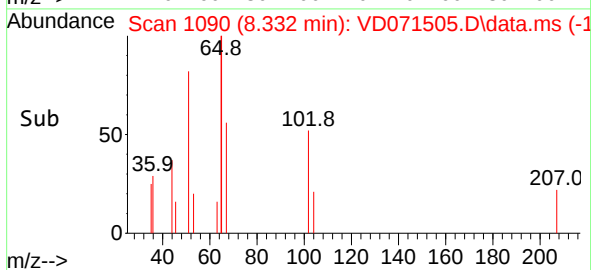
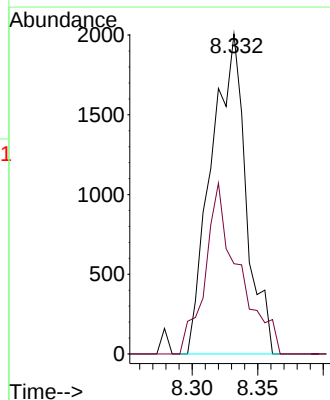
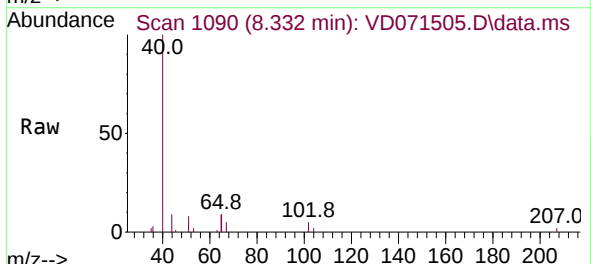
Instrument :
MSVOA_D
ClientSampleId :
SB-4

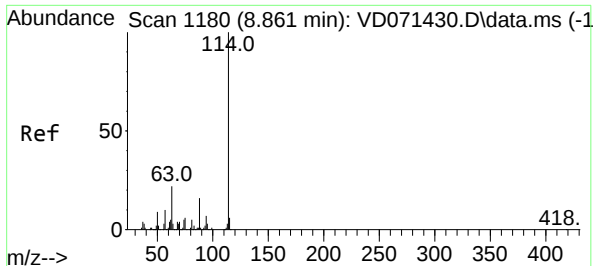
Tgt Ion: 42 Resp: 141
Ion Ratio Lower Upper
42 100
72 0.0 33.7 50.5#
71 0.0 32.7 49.1#



#33
1,2-Dichloroethane-d4
Concen: 72.812 ug/l
RT: 8.332 min Scan# 1090
Delta R.T. 0.006 min
Lab File: VD071505.D
Acq: 28 Dec 2021 16:12

Tgt Ion: 65 Resp: 3693
Ion Ratio Lower Upper
65 100
67 51.8 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: VD071505.D

Acq: 28 Dec 2021 16:12

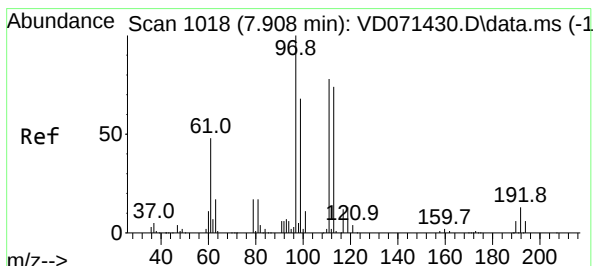
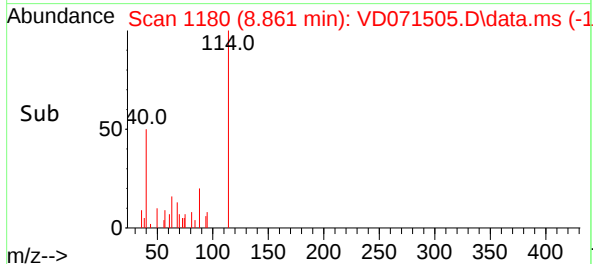
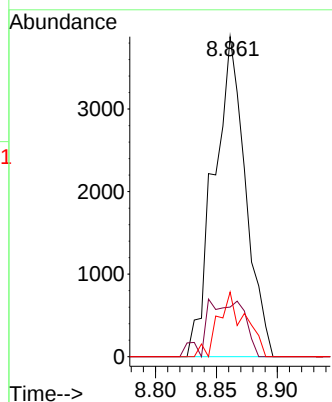
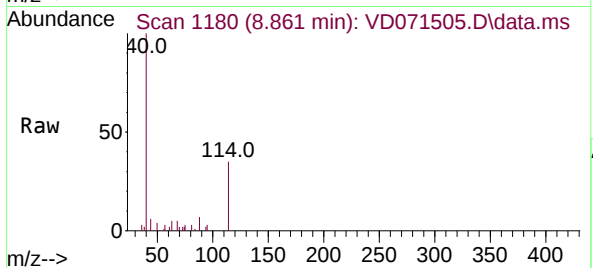
Instrument :

MSVOA_D

ClientSampleId :

SB-4

Tgt Ion:114	Resp:	7004
Ion Ratio	Lower	Upper
114	100	
63	15.5	0.0 41.8
88	20.2	0.0 32.8



#35

Dibromofluoromethane

Concen: 48.160 ug/l

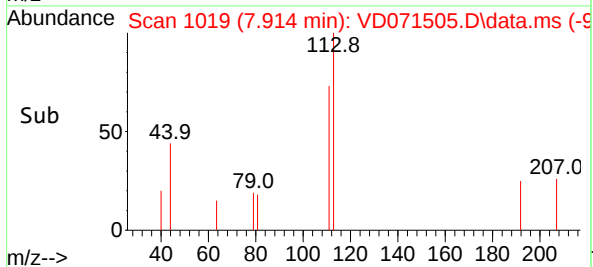
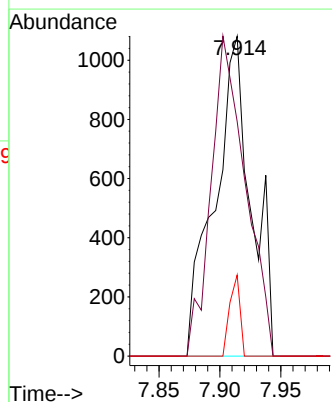
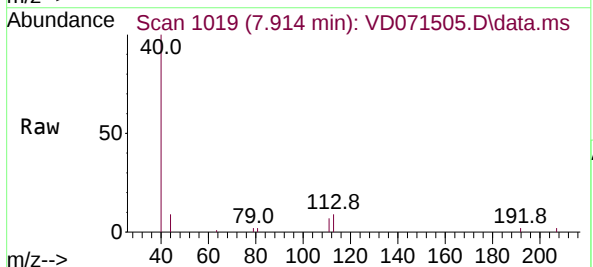
RT: 7.914 min Scan# 1019

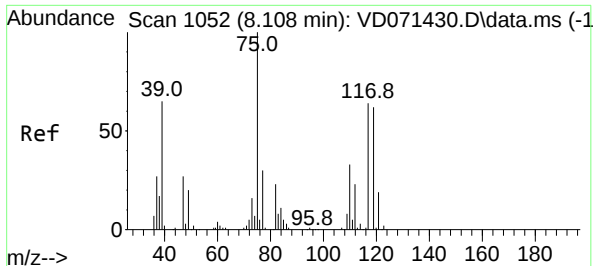
Delta R.T. 0.006 min

Lab File: VD071505.D

Acq: 28 Dec 2021 16:12

Tgt Ion:113	Resp:	2267
Ion Ratio	Lower	Upper
113	100	
111	93.9	82.0 123.0
192	7.1	15.2 22.8





#36

1,1-Dichloropropene

Concen: 1.449 ug/l

RT: 8.002 min Scan# 1034

Delta R.T. -0.106 min

Lab File: VD071505.D

Acq: 28 Dec 2021 16:12

Instrument :

MSVOA_D

ClientSampleId :

SB-4

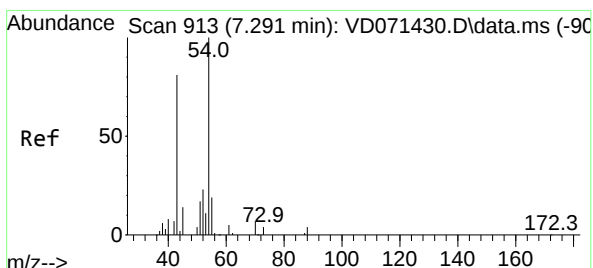
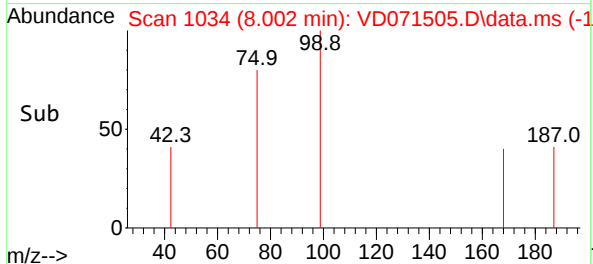
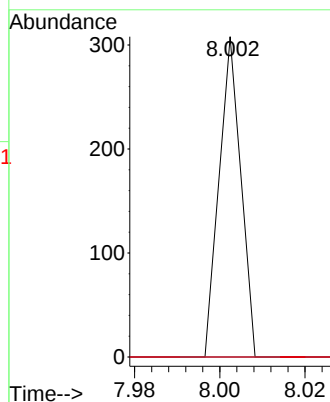
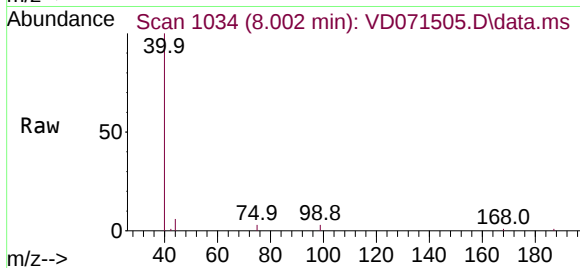
Tgt Ion: 75 Resp: 109

Ion Ratio Lower Upper

75 100

110 0.0 17.8 53.4#

77 0.0 24.8 37.2#



#37

Ethyl Acetate

Concen: 1.786 ug/l

RT: 7.250 min Scan# 906

Delta R.T. -0.035 min

Lab File: VD071505.D

Acq: 28 Dec 2021 16:12

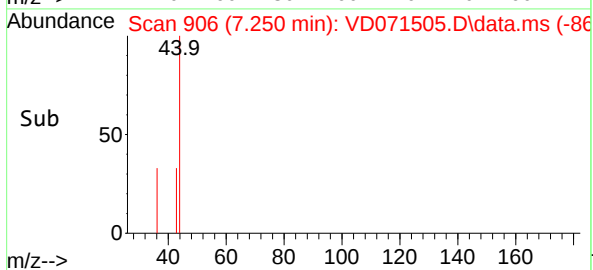
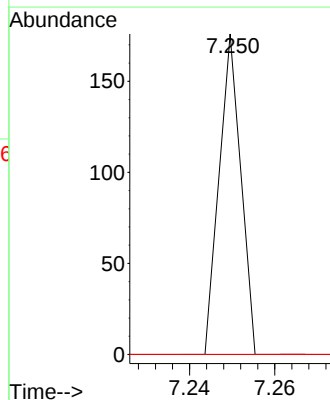
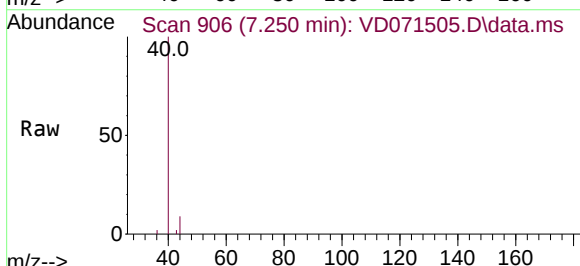
Tgt Ion: 43 Resp: 62

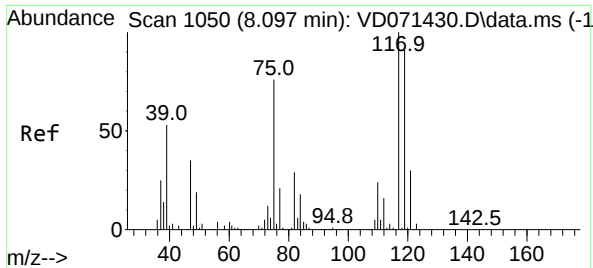
Ion Ratio Lower Upper

43 100

61 0.0 13.0 19.6#

70 0.0 8.7 13.1#

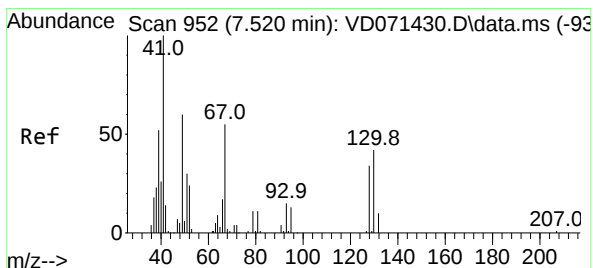
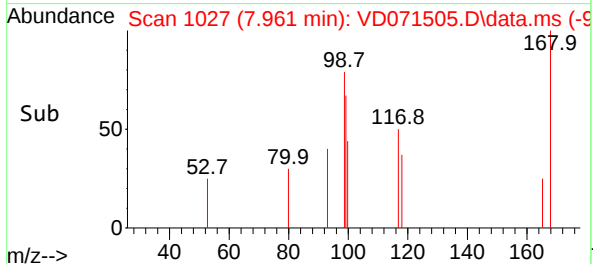
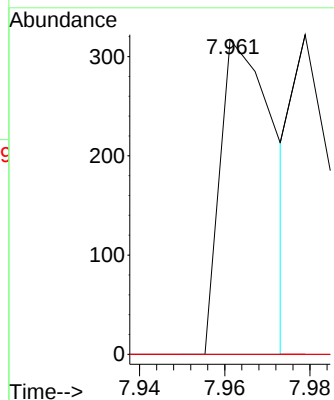
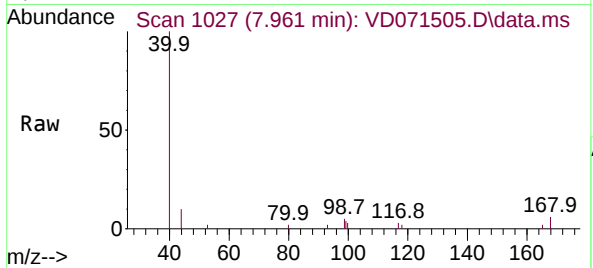




#38
Carbon Tetrachloride
Concen: 3.882 ug/l
RT: 7.961 min Scan# 1050
Delta R.T. -0.136 min
Lab File: VD071505.D
Acq: 28 Dec 2021 16:12

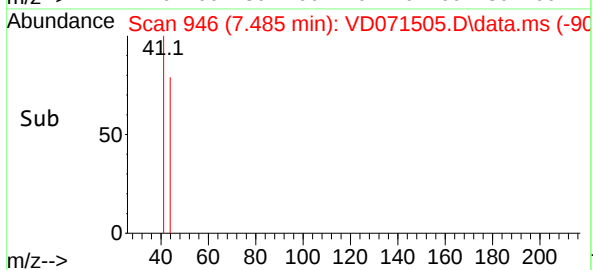
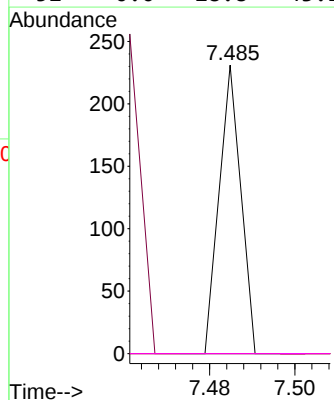
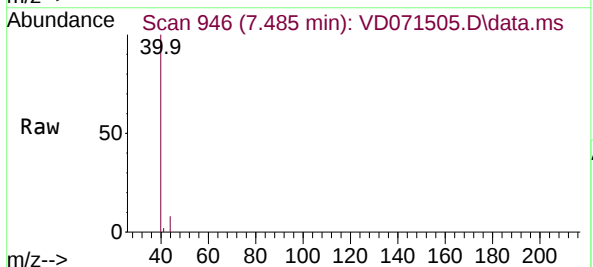
Instrument :
MSVOA_D
ClientSampleId :
SB-4

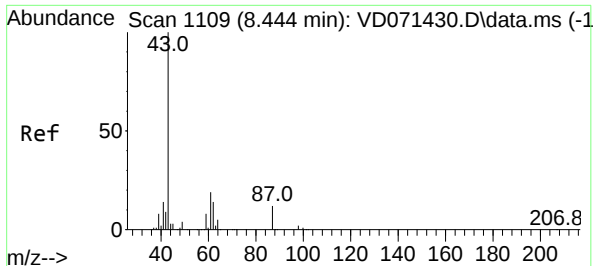
Tgt Ion:117 Resp: 288
Ion Ratio Lower Upper
117 100
119 0.0 75.8 113.6#
121 0.0 23.6 35.4#



#41
Methacrylonitrile
Concen: 3.976 ug/l
RT: 7.485 min Scan# 946
Delta R.T. -0.041 min
Lab File: VD071505.D
Acq: 28 Dec 2021 16:12

Tgt Ion: 41 Resp: 82
Ion Ratio Lower Upper
41 100
39 0.0 60.2 90.4#
67 0.0 74.8 112.2#
52 0.0 28.8 43.2#

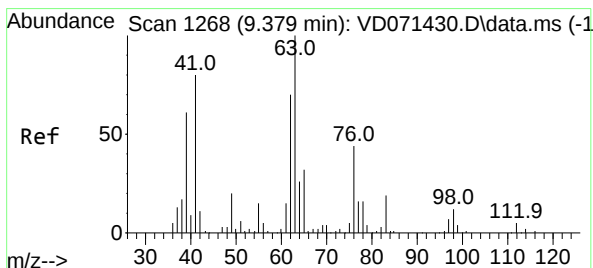
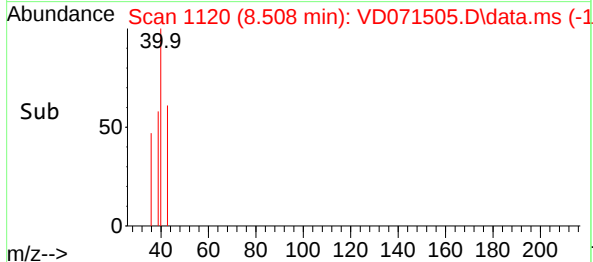
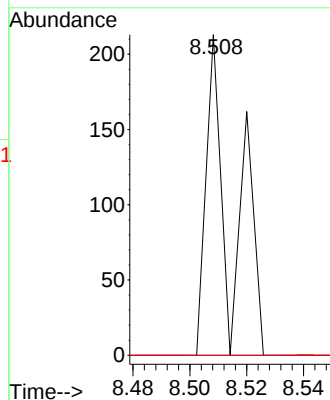
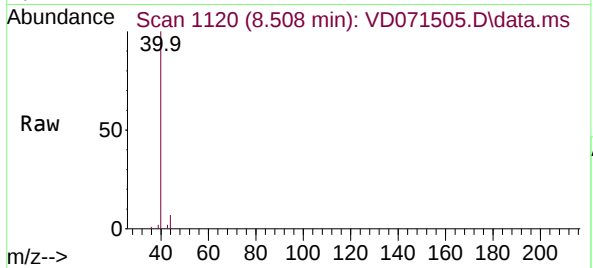




#43
Isopropyl Acetate
Concen: 1.916 ug/l
RT: 8.508 min Scan# 1109
Delta R.T. 0.058 min
Lab File: VD071505.D
Acq: 28 Dec 2021 16:12

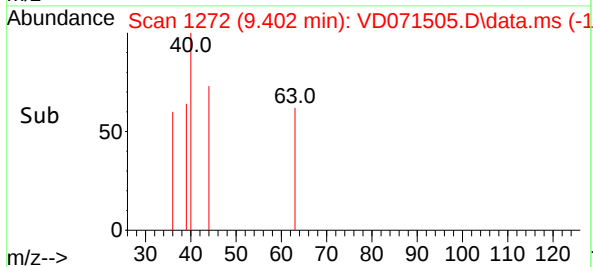
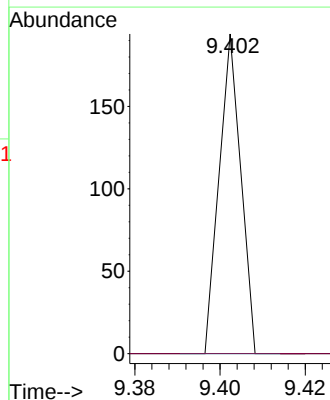
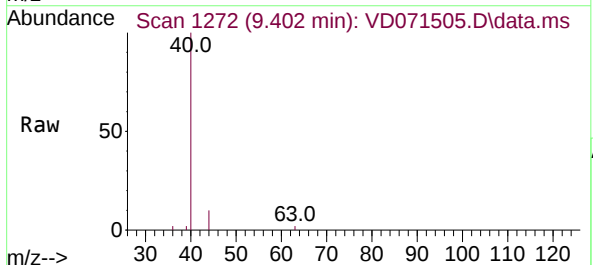
Instrument :
MSVOA_D
ClientSampleId :
SB-4

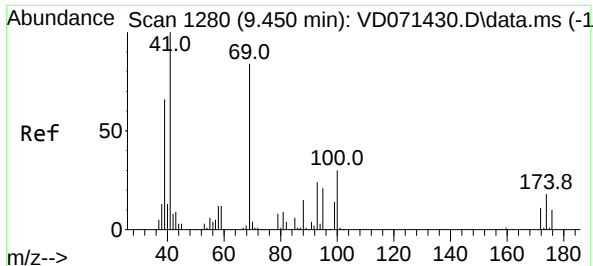
Tgt Ion: 43 Resp: 132
Ion Ratio Lower Upper
43 100
61 0.0 28.2 42.4#
87 0.0 10.7 16.1#



#45
1,2-Dichloropropane
Concen: 1.296 ug/l
RT: 9.402 min Scan# 1272
Delta R.T. 0.023 min
Lab File: VD071505.D
Acq: 28 Dec 2021 16:12

Tgt Ion: 63 Resp: 68
Ion Ratio Lower Upper
63 100
65 0.0 24.2 36.2#





#48

Methyl methacrylate

Concen: 1.584 ug/l

RT: 9.414 min Scan# 1274

Delta R.T. -0.035 min

Lab File: VD071505.D

Acq: 28 Dec 2021 16:12

Instrument :

MSVOA_D

ClientSampleId :

SB-4

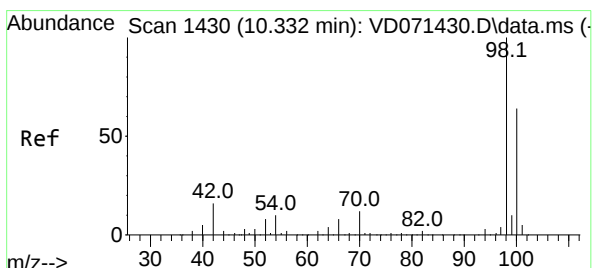
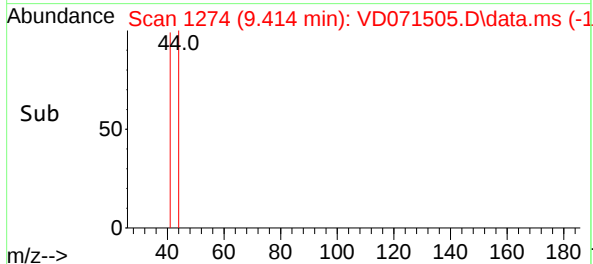
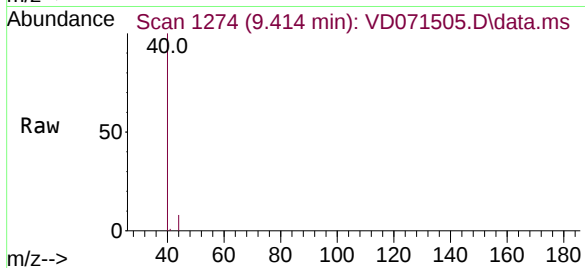
Tgt Ion: 41 Resp: 54

Ion Ratio Lower Upper

41 100

69 0.0 69.8 104.6#

39 261.1 35.6 53.4#



#50

Toluene-d8

Concen: 46.198 ug/l

RT: 10.338 min Scan# 1431

Delta R.T. 0.006 min

Lab File: VD071505.D

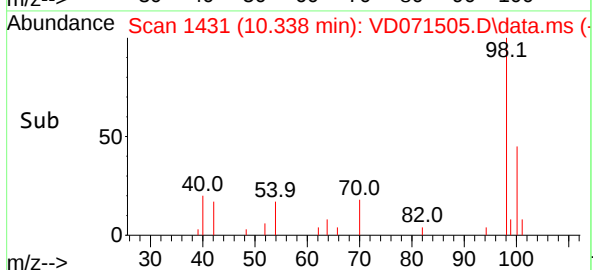
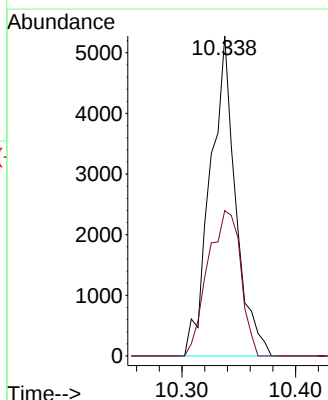
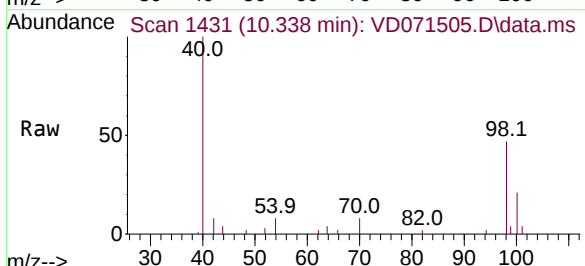
Acq: 28 Dec 2021 16:12

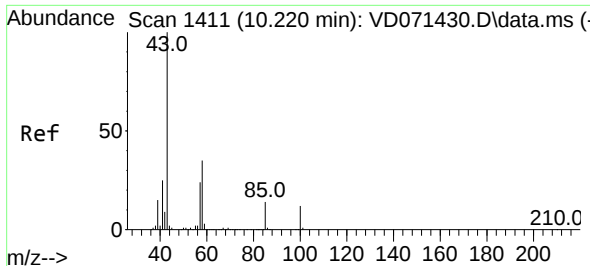
Tgt Ion: 98 Resp: 8218

Ion Ratio Lower Upper

98 100

100 58.5 51.8 77.6

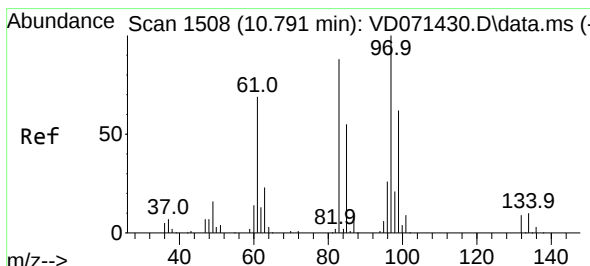
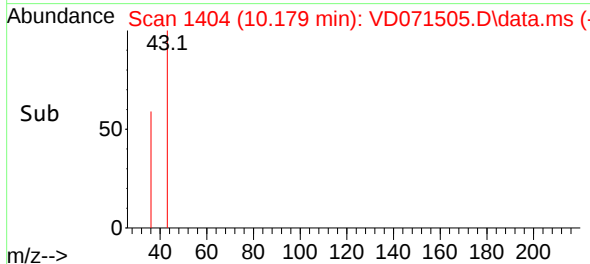
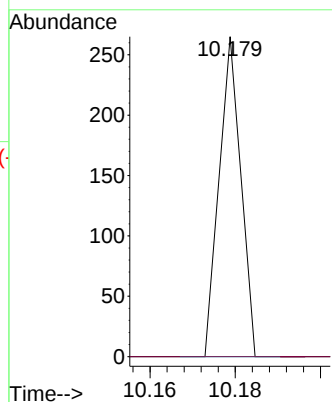
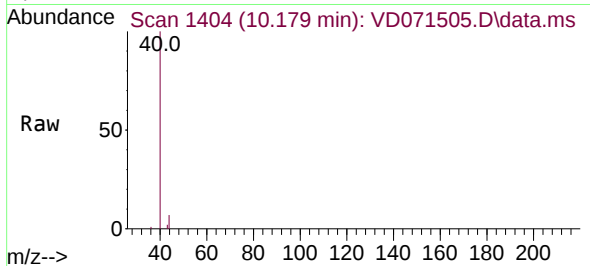




#51
4-Methyl-2-Pentanone
Concen: 2.566 ug/l
RT: 10.179 min Scan# 1411
Delta R.T. -0.041 min
Lab File: VD071505.D
Acq: 28 Dec 2021 16:12

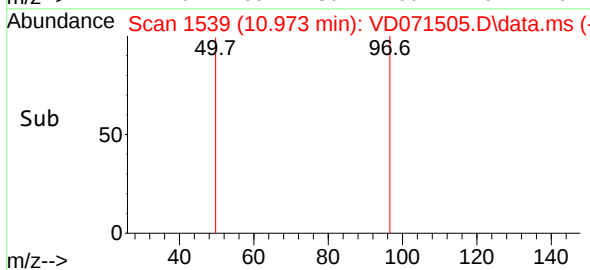
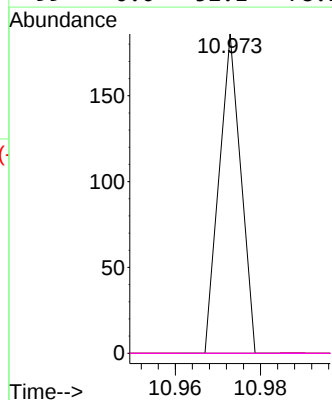
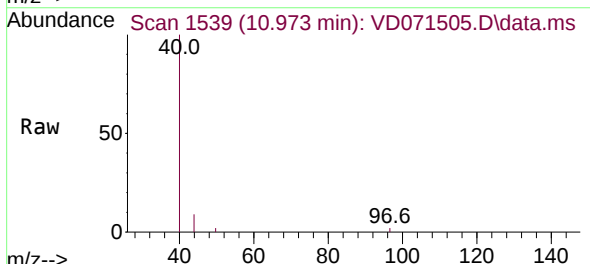
Instrument : MSVOA_D
ClientSampleId : SB-4

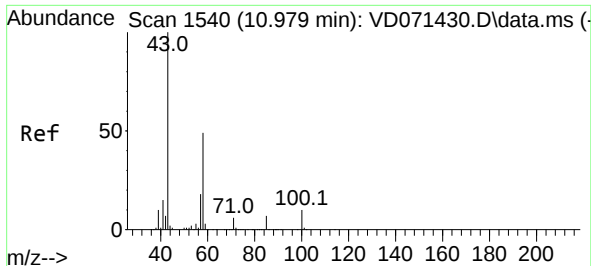
Tgt Ion: 43 Resp: 93
Ion Ratio Lower Upper
43 100
58 0.0 33.1 49.7#



#55
1,1,2-Trichloroethane
Concen: 1.794 ug/l
RT: 10.973 min Scan# 1539
Delta R.T. 0.182 min
Lab File: VD071505.D
Acq: 28 Dec 2021 16:12

Tgt Ion: 97 Resp: 66
Ion Ratio Lower Upper
97 100
83 0.0 65.2 97.8#
85 0.0 43.4 65.0#
99 0.0 52.1 78.1#

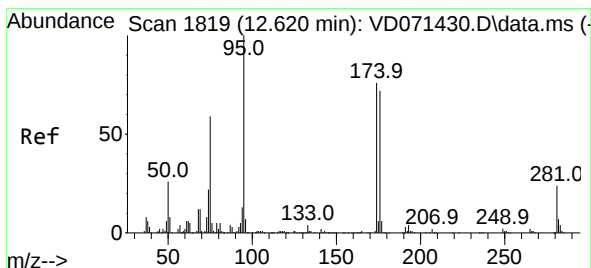
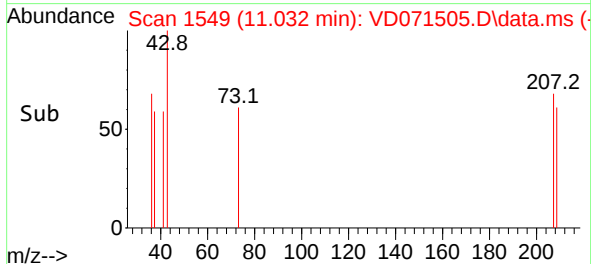
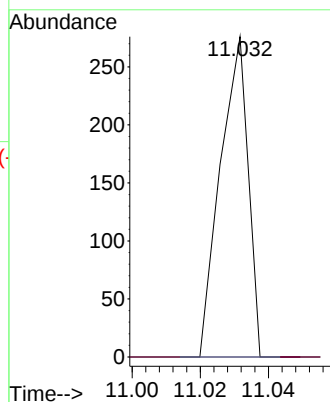
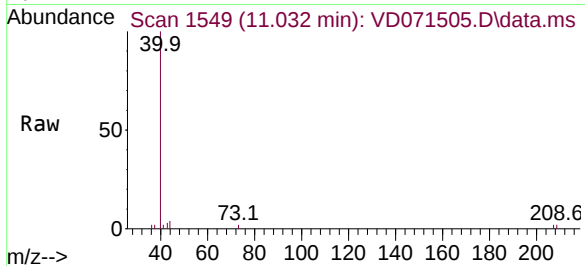




#59
2-Hexanone
Concen: 6.088 ug/l
RT: 11.032 min Scan# 11
Delta R.T. 0.053 min
Lab File: VD071505.D
Acq: 28 Dec 2021 16:12

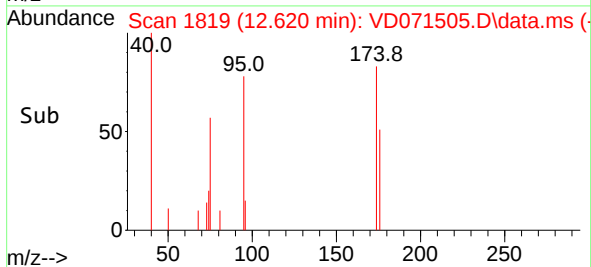
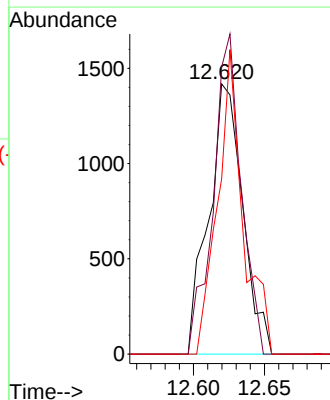
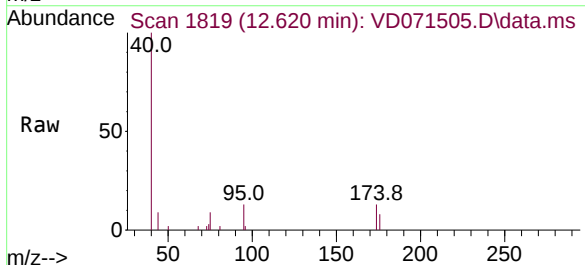
Instrument :
MSVOA_D
ClientSampleId :
SB-4

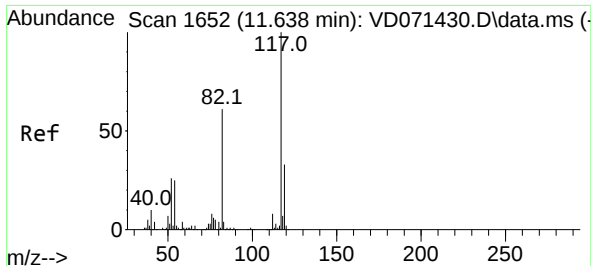
Tgt Ion: 43 Resp: 156
Ion Ratio Lower Upper
43 100
58 0.0 28.7 86.1#



#62
4-Bromofluorobenzene
Concen: 37.430 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.006 min
Lab File: VD071505.D
Acq: 28 Dec 2021 16:12

Tgt Ion: 95 Resp: 2366
Ion Ratio Lower Upper
95 100
174 97.8 0.0 159.4
176 83.6 0.0 154.0

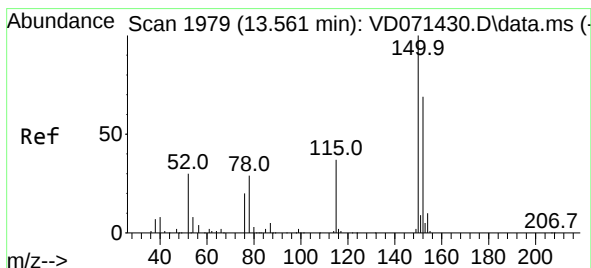
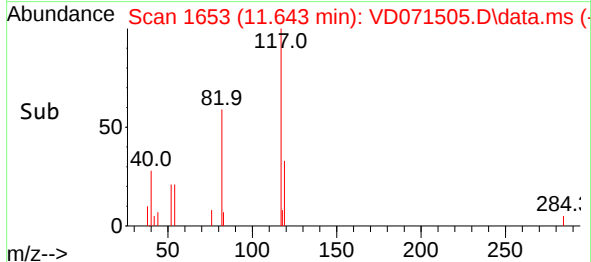
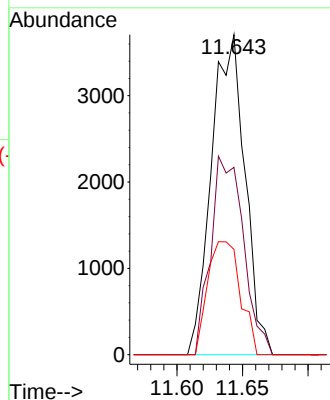
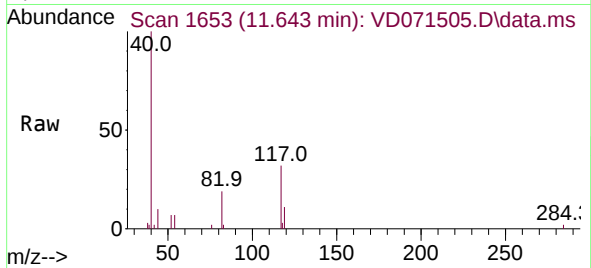




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.643 min Scan# 11
Delta R.T. 0.005 min
Lab File: VD071505.D
Acq: 28 Dec 2021 16:12

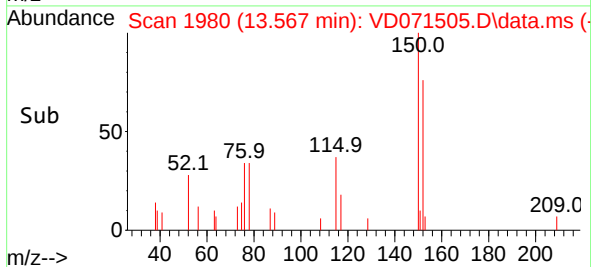
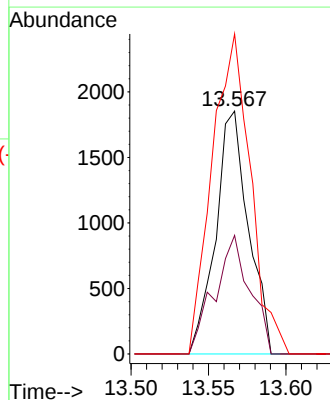
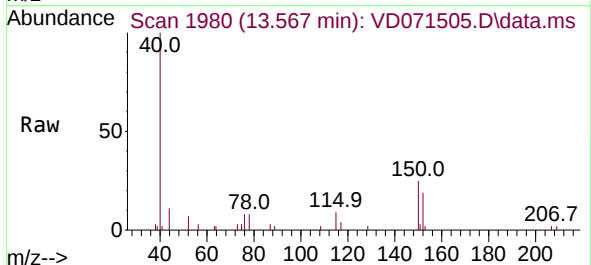
Instrument :
MSVOA_D
ClientSampleId :
SB-4

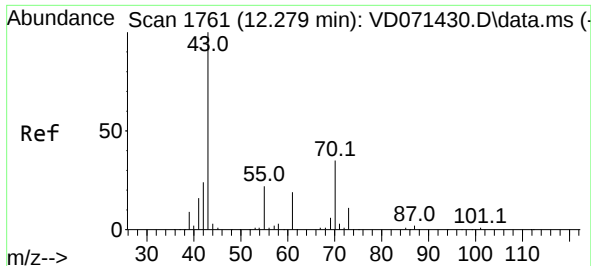
Tgt Ion:117	Resp:	6580
Ion	Ratio	Lower Upper
117	100	
82	58.6	44.7 67.1
119	32.9	26.2 39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.567 min Scan# 1980
Delta R.T. 0.006 min
Lab File: VD071505.D
Acq: 28 Dec 2021 16:12

Tgt Ion:152	Resp:	2722
Ion	Ratio	Lower Upper
152	100	
115	52.7	29.8 89.3
150	154.4	0.0 349.2

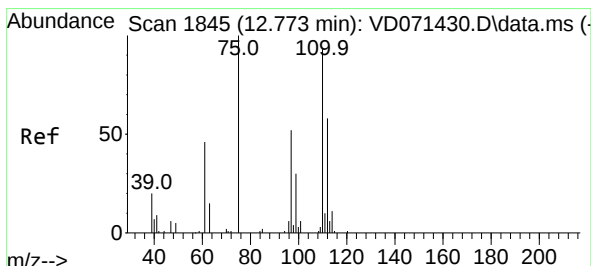
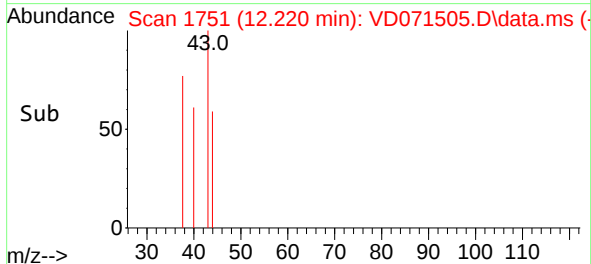
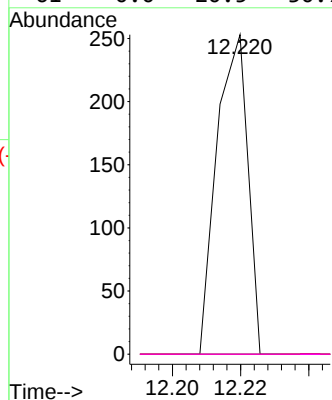
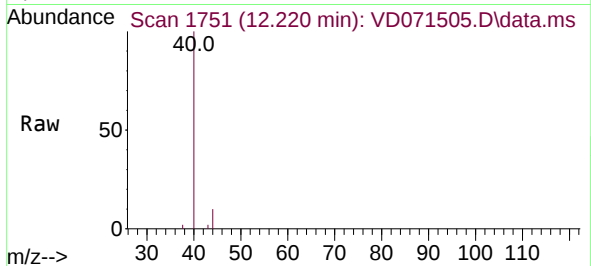




#74
N-amy1 acetate
Concen: 2.824 ug/l
RT: 12.220 min Scan# 11
Delta R.T. -0.059 min
Lab File: VD071505.D
Acq: 28 Dec 2021 16:12

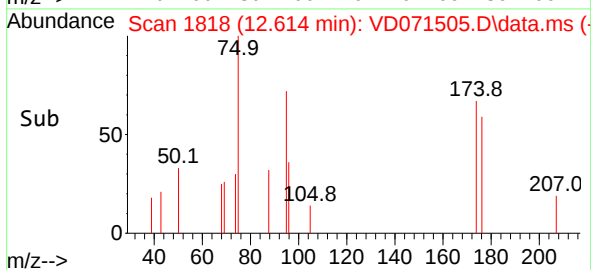
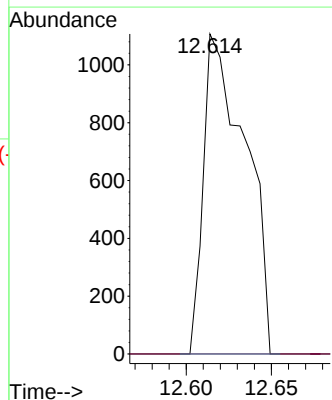
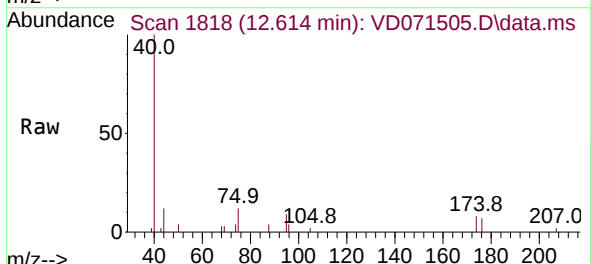
Instrument :
MSVOA_D
ClientSampleId :
SB-4

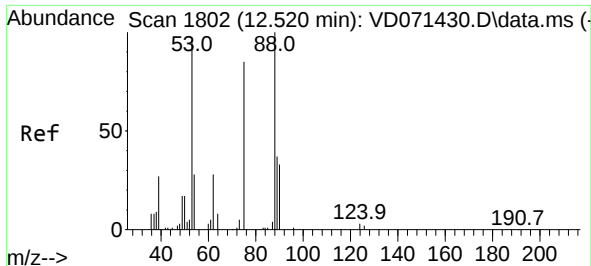
Tgt Ion: 43	Resp:	159	
Ion	Ratio	Lower	Upper
43	100		
70	0.0	36.6	55.0#
55	0.0	22.5	33.7#
61	0.0	20.5	30.7#



#76
1,2,3-Trichloropropane
Concen: 58.685 ug/l
RT: 12.614 min Scan# 1818
Delta R.T. -0.159 min
Lab File: VD071505.D
Acq: 28 Dec 2021 16:12

Tgt Ion: 75	Resp:	1898	
Ion Ratio	Lower	Upper	
75 100			
77 0.0	158.4	475.3#	

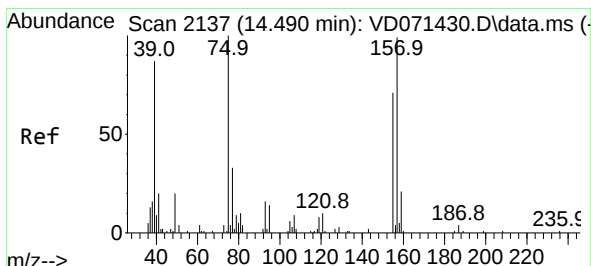
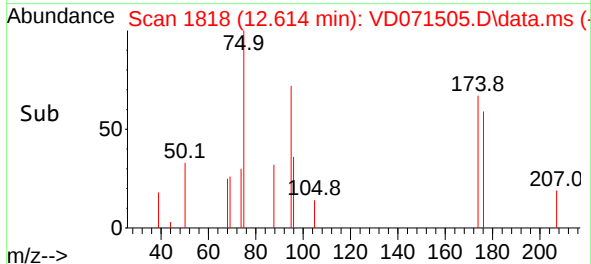
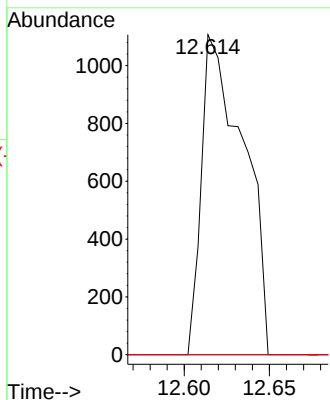
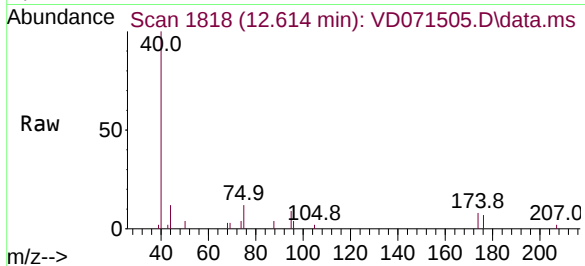




#81
 trans-1,4-Dichloro-2-butene
 Concen: 165.816 ug/l
 RT: 12.614 min Scan# 11
 Delta R.T. 0.094 min
 Lab File: VD071505.D
 Acq: 28 Dec 2021 16:12

Instrument :
 MSVOA_D
 ClientSampleId :
 SB-4

Tgt Ion: 75 Resp: 1898
 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: 8.815 ug/l
 RT: 14.367 min Scan# 2116
 Delta R.T. -0.123 min
 Lab File: VD071505.D
 Acq: 28 Dec 2021 16:12

Tgt Ion: 75 Resp: 58
 Ion Ratio Lower Upper
 75 100
 155 0.0 40.0 120.0#
 157 0.0 49.8 149.3#

