

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD123021\
 Data File : VD071554.D
 Acq On : 30 Dec 2021 17:35
 Operator : VA/SY
 Sample : M5255-01
 Misc : 5.01G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TR-04-122921

Quant Time: Dec 31 06:55:58 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)

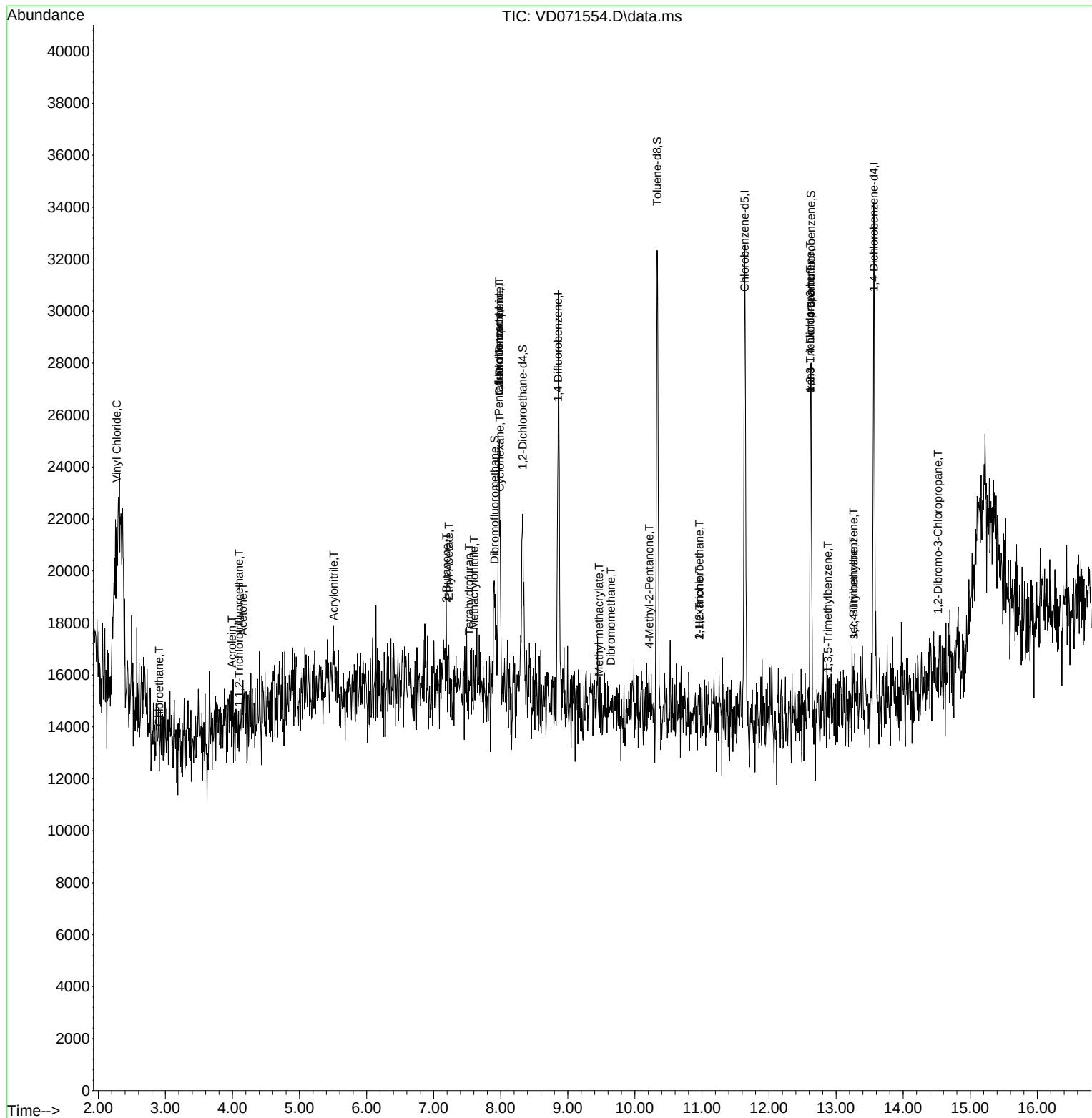
Internal Standards						
1) Pentafluorobenzene	7.973	168	6944	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.856	114	11312	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	10315	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	4283	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	5073	55.008	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 110.020%	
35) Dibromofluoromethane	7.909	113	3294	43.328	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 86.660%	
50) Toluene-d8	10.332	98	11916	41.476	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 82.960%	
62) 4-Bromofluorobenzene	12.626	95	4270	41.825	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 83.640%	
Target Compounds						Qvalue
4) Vinyl Chloride	2.274	62	199	1.782	ug/l #	42
6) Chloroethane	2.909	64	174	2.348	ug/l #	39
9) 1,1,2-Trichlorotrifluo...	4.097	101	119	1.496	ug/l #	19
13) Acrolein	3.991	56	130	29.181	ug/l #	13
15) Acrylonitrile	5.509	53	64	3.321	ug/l #	19
16) Acetone	4.156	43	923	39.846	ug/l #	40
20) Methylene Chloride	4.956	84	404	Below Cal	#	7
25) 2-Butanone	7.191	43	62	2.241	ug/l #	45
29) Tetrahydrofuran	7.526	42	62	3.732	ug/l #	34
31) Cyclohexane	7.985	56	220	1.404	ug/l #	19
36) 1,1-Dichloropropene	7.979	75	561	4.619	ug/l #	41
37) Ethyl Acetate	7.226	43	117	2.087	ug/l #	66
38) Carbon Tetrachloride	7.979	117	576	4.807	ug/l #	12
41) Methacrylonitrile	7.603	41	120	3.603	ug/l #	12
46) Dibromomethane	9.644	93	56	1.196	ug/l #	4
48) Methyl methacrylate	9.467	41	58	1.053	ug/l #	15
51) 4-Methyl-2-Pentanone	10.214	43	128	2.186	ug/l #	34
55) 1,1,2-Trichloroethane	10.961	97	60	1.010	ug/l #	16
59) 2-Hexanone	10.961	43	57	1.377	ug/l #	22
76) 1,2,3-Trichloropropane	12.614	75	2297	45.137	ug/l #	1
80) 1,3,5-Trimethylbenzene	12.879	105	322	1.182	ug/l	78
81) trans-1,4-Dichloro-2-b...	12.614	75	2297	127.535	ug/l #	18
84) 1,2,4-Trimethylbenzene	13.261	105	1045	3.877	ug/l	77
85) sec-Butylbenzene	13.261	105	1045	2.945	ug/l #	57
92) 1,2-Dibromo-3-Chloropr...	14.520	75	67	6.472	ug/l #	4

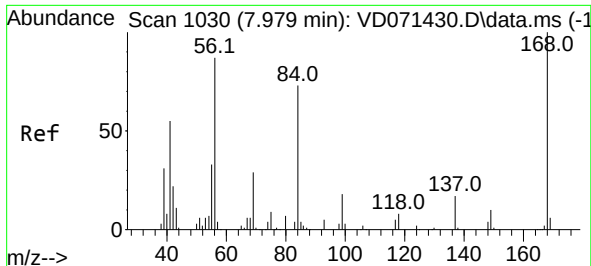
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Dec 23 08:20:24 2021
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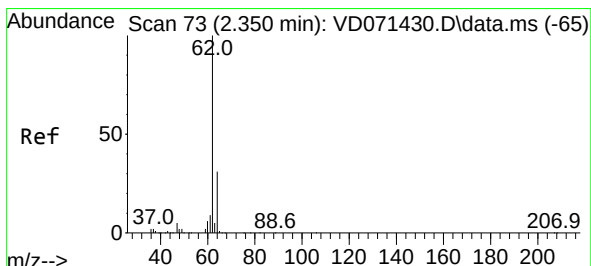
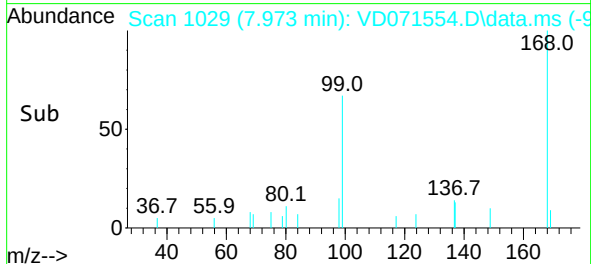
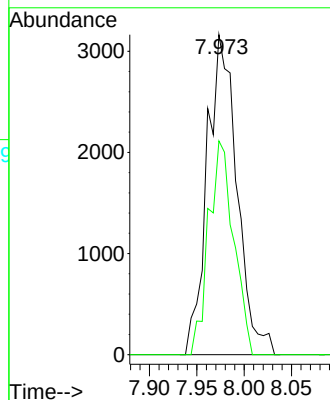
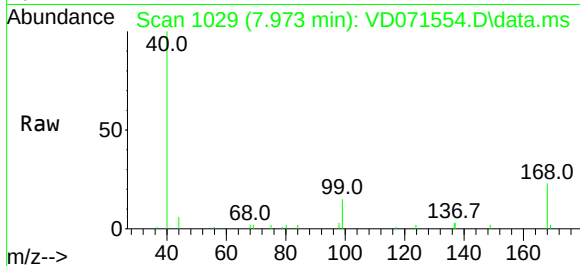




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.973 min Scan# 10
Delta R.T. 0.000 min
Lab File: VD071554.D
Acq: 30 Dec 2021 17:35

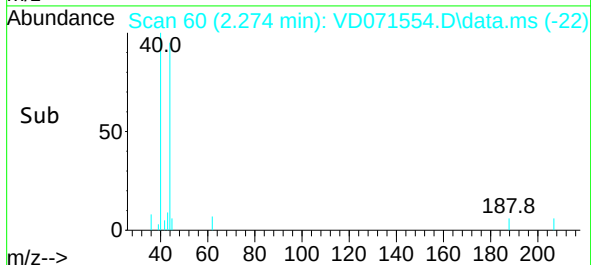
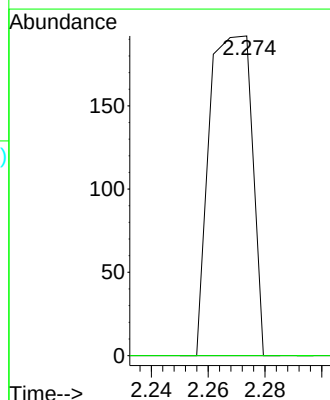
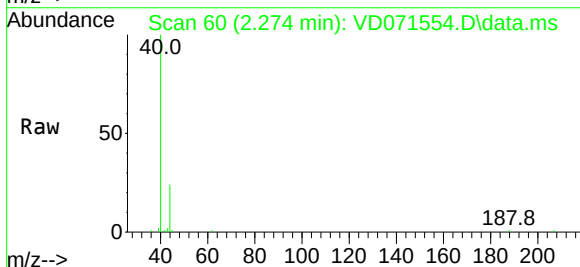
Instrument :
MSVOA_D
ClientSampleId :
TR-04-122921

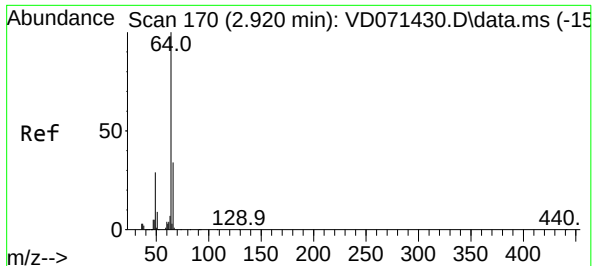
Tgt Ion:168 Resp: 6944
Ion Ratio Lower Upper
168 100
99 66.8 46.6 69.8



#4
Vinyl Chloride
Concen: 1.782 ug/l
RT: 2.274 min Scan# 60
Delta R.T. -0.076 min
Lab File: VD071554.D
Acq: 30 Dec 2021 17:35

Tgt Ion: 62 Resp: 199
Ion Ratio Lower Upper
62 100
64 0.0 26.0 39.0#

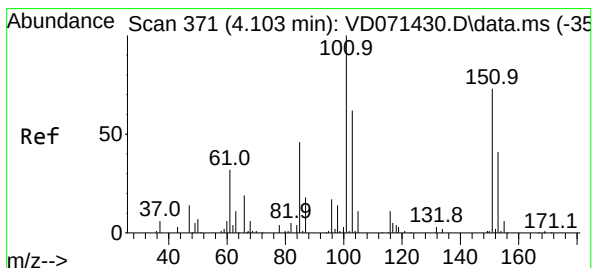
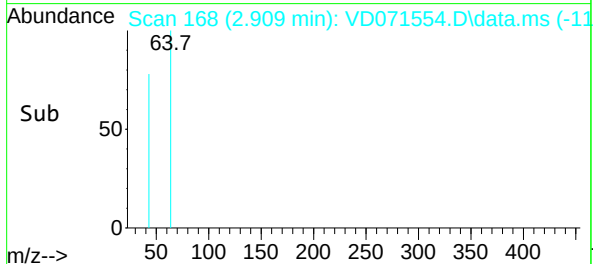
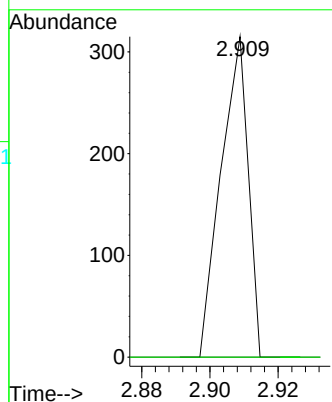
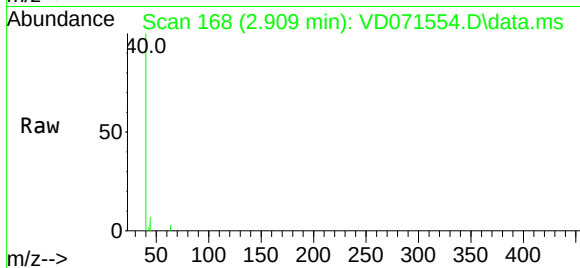




#6
Chloroethane
Concen: 2.348 ug/l
RT: 2.909 min Scan# 11
Delta R.T. -0.006 min
Lab File: VD071554.D
Acq: 30 Dec 2021 17:35

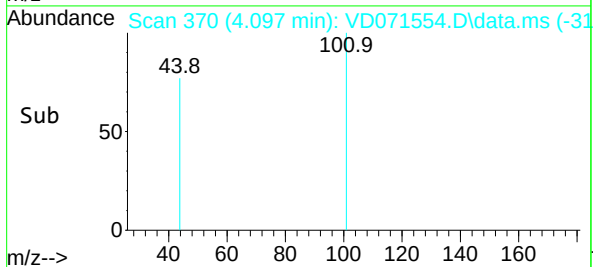
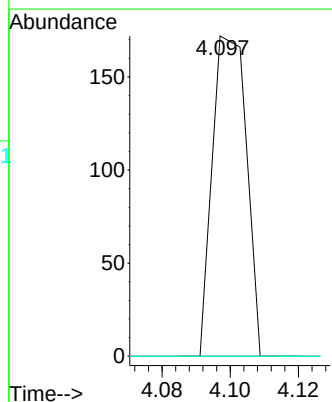
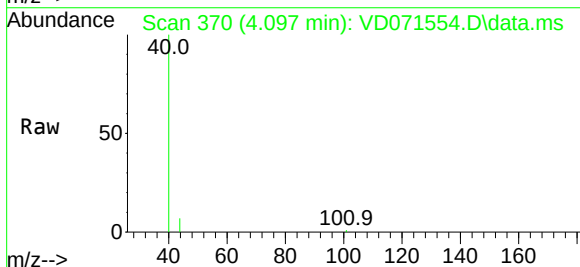
Instrument :
MSVOA_D
ClientSampleId :
TR-04-122921

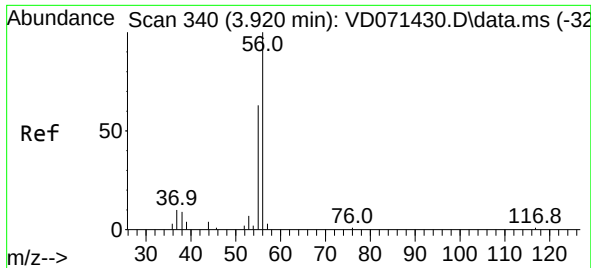
Tgt Ion: 64 Resp: 174
Ion Ratio Lower Upper
64 100
66 0.0 29.0 43.4#



#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.496 ug/l
RT: 4.097 min Scan# 370
Delta R.T. 0.006 min
Lab File: VD071554.D
Acq: 30 Dec 2021 17:35

Tgt Ion: 101 Resp: 119
Ion Ratio Lower Upper
101 100
85 0.0 34.8 52.2#
151 0.0 60.4 90.6#





#13

Acrolein

Concen: 29.181 ug/l

RT: 3.991 min Scan# 31

Delta R.T. 0.077 min

Lab File: VD071554.D

Acq: 30 Dec 2021 17:35

Instrument :

MSVOA_D

ClientSampleId :

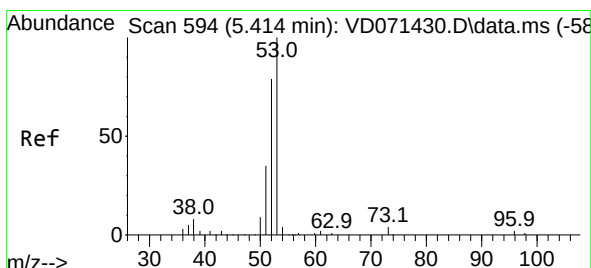
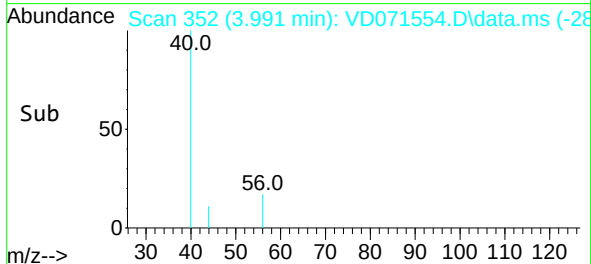
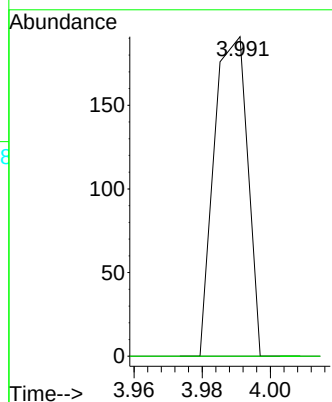
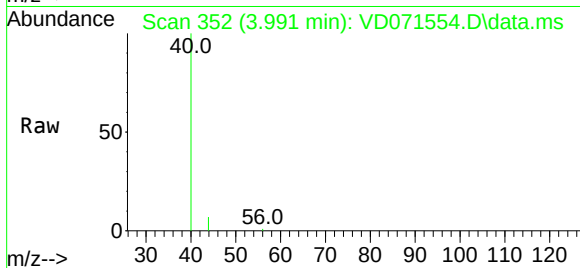
TR-04-122921

Tgt Ion: 56 Resp: 130

Ion Ratio Lower Upper

56 100

55 0.0 58.6 87.8#



#15

Acrylonitrile

Concen: 3.321 ug/l

RT: 5.509 min Scan# 610

Delta R.T. 0.089 min

Lab File: VD071554.D

Acq: 30 Dec 2021 17:35

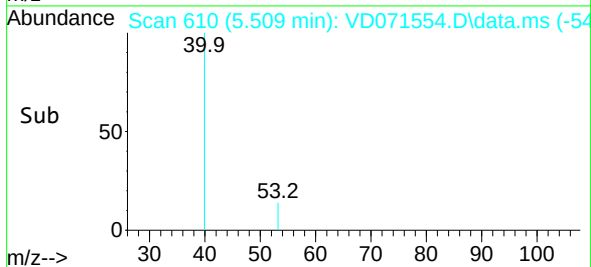
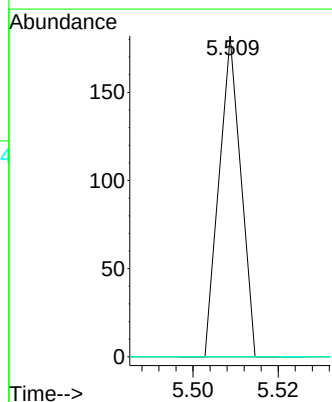
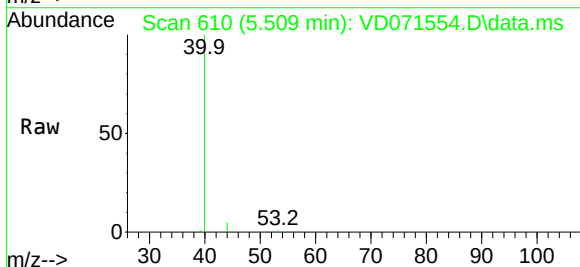
Tgt Ion: 53 Resp: 64

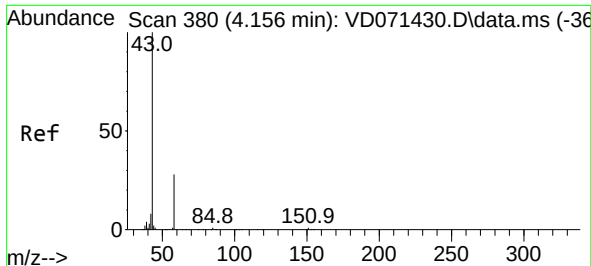
Ion Ratio Lower Upper

53 100

52 0.0 63.8 95.8#

51 0.0 28.5 42.7#

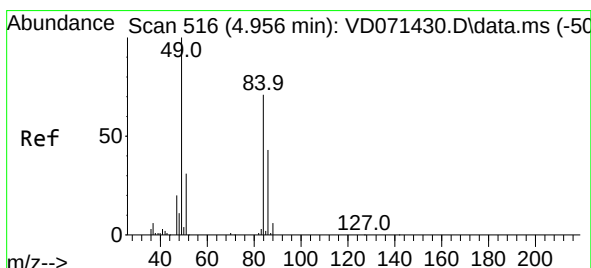
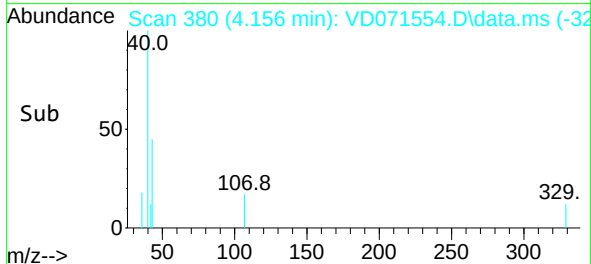
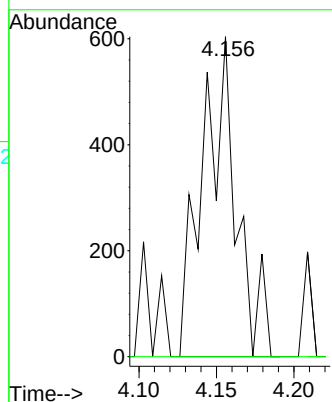
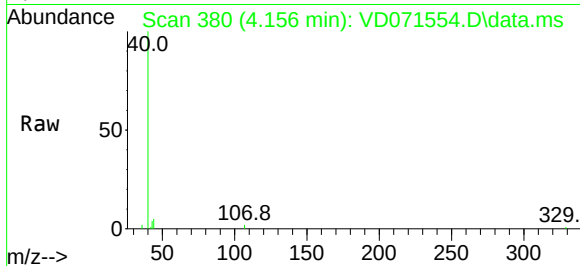




#16
Acetone
Concen: 39.846 ug/l
RT: 4.156 min Scan# 31
Delta R.T. -0.000 min
Lab File: VD071554.D
Acq: 30 Dec 2021 17:35

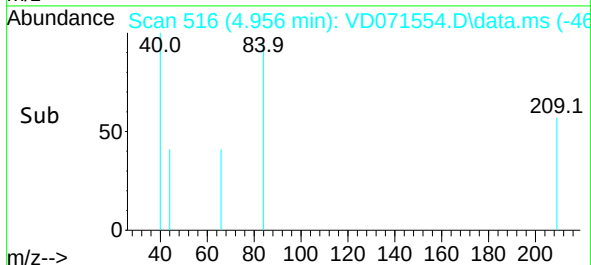
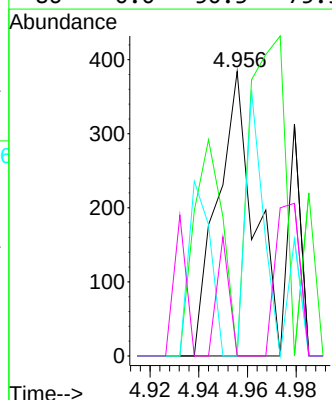
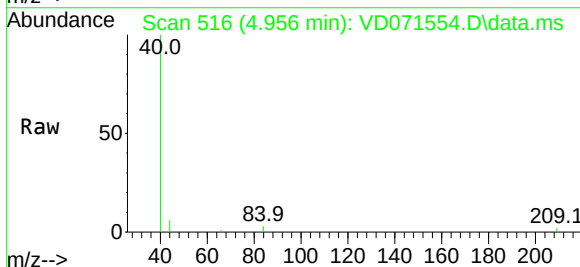
Instrument :
MSVOA_D
ClientSampleId :
TR-04-122921

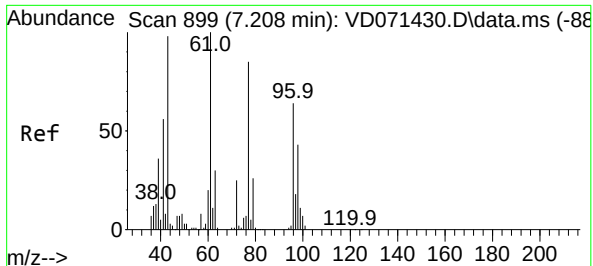
Tgt Ion: 43 Resp: 923
Ion Ratio Lower Upper
43 100
58 0.0 27.8 41.8#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.956 min Scan# 516
Delta R.T. -0.005 min
Lab File: VD071554.D
Acq: 30 Dec 2021 17:35

Tgt Ion: 84 Resp: 404
Ion Ratio Lower Upper
84 100
49 0.0 95.8 143.6#
51 0.0 30.9 46.3#
86 0.0 50.3 75.5#





#25

2-Butanone

Concen: 2.241 ug/l

RT: 7.191 min Scan# 899

Delta R.T. -0.017 min

Lab File: VD071554.D

Acq: 30 Dec 2021 17:35

Instrument :

MSVOA_D

ClientSampleId :

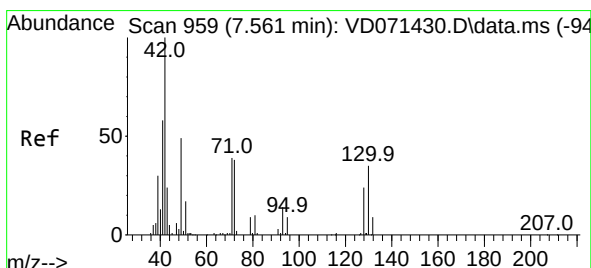
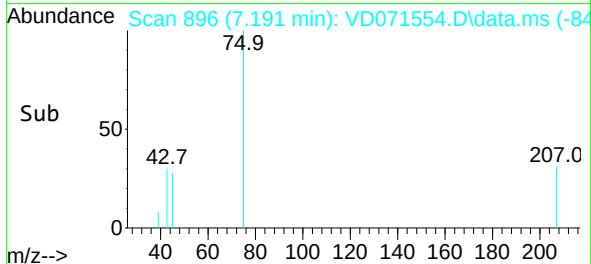
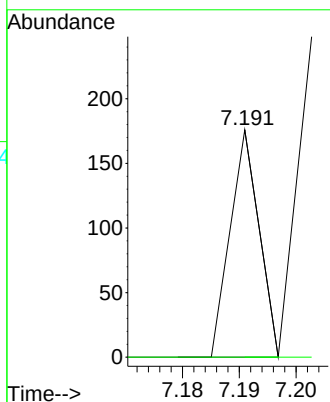
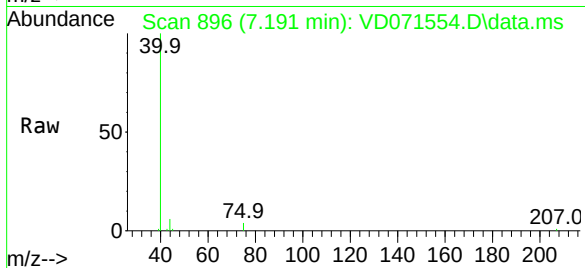
TR-04-122921

Tgt Ion: 43 Resp: 62

Ion Ratio Lower Upper

43 100

72 0.0 23.8 35.6#



#29

Tetrahydrofuran

Concen: 3.732 ug/l

RT: 7.526 min Scan# 953

Delta R.T. -0.029 min

Lab File: VD071554.D

Acq: 30 Dec 2021 17:35

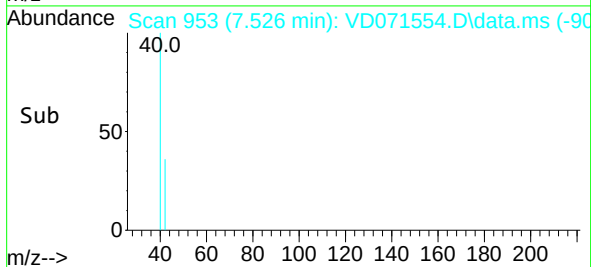
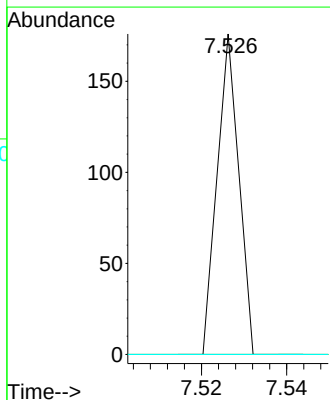
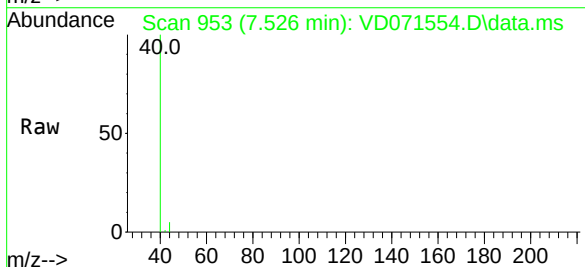
Tgt Ion: 42 Resp: 62

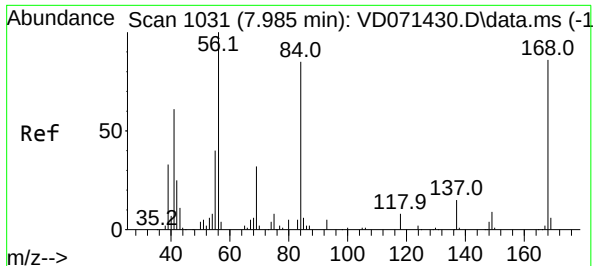
Ion Ratio Lower Upper

42 100

72 0.0 33.7 50.5#

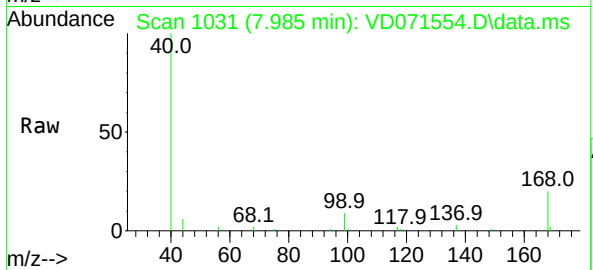
71 0.0 32.7 49.1#



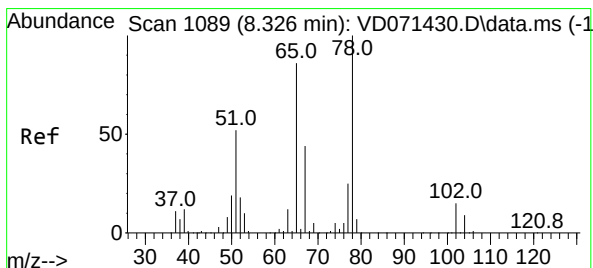
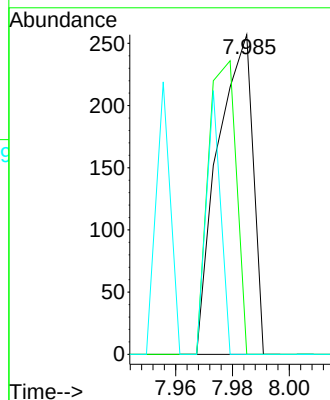
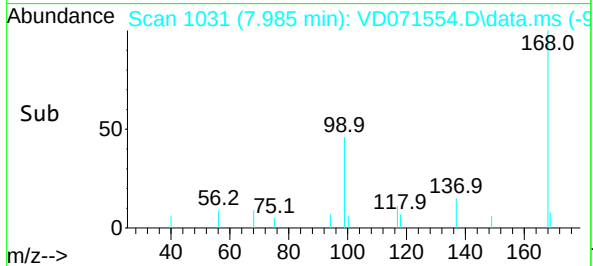


#31
Cyclohexane
Concen: 1.404 ug/l
RT: 7.985 min Scan# 1031
Delta R.T. 0.000 min
Lab File: VD071554.D
Acq: 30 Dec 2021 17:35

Instrument :
MSVOA_D
ClientSampleId :
TR-04-122921

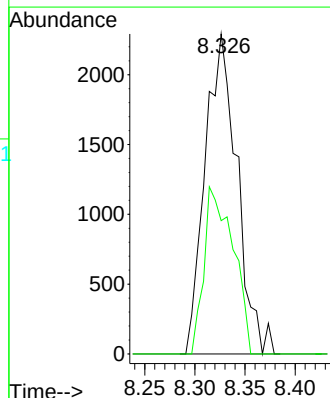
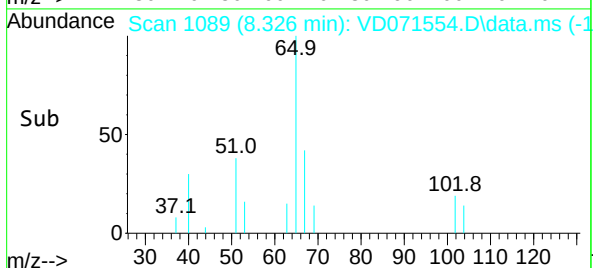
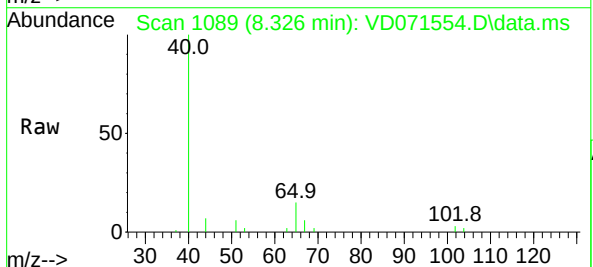


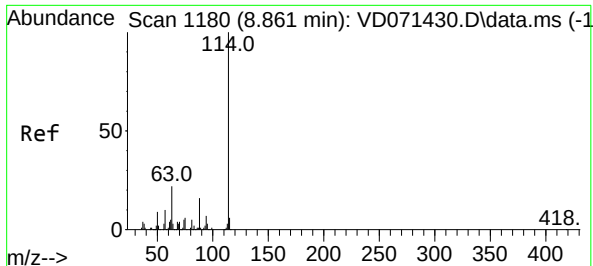
Tgt Ion: 56 Resp: 220
Ion Ratio Lower Upper
56 100
69 0.0 25.9 38.9#
84 0.0 64.3 96.5#



#33
1,2-Dichloroethane-d4
Concen: 55.008 ug/l
RT: 8.326 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VD071554.D
Acq: 30 Dec 2021 17:35

Tgt Ion: 65 Resp: 5073
Ion Ratio Lower Upper
65 100
67 47.6 0.0 112.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.856 min Scan# 1180

Delta R.T. -0.005 min

Lab File: VD071554.D

Acq: 30 Dec 2021 17:35

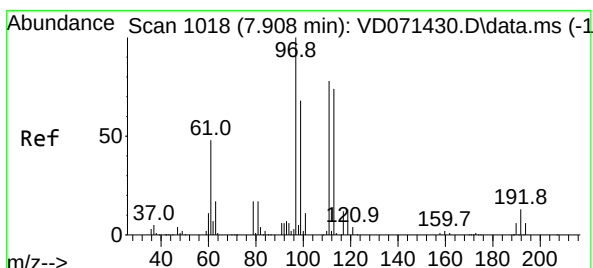
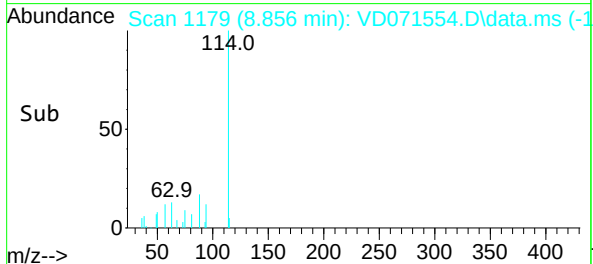
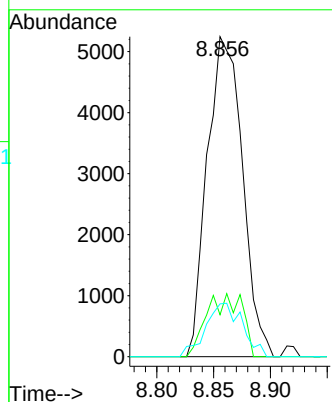
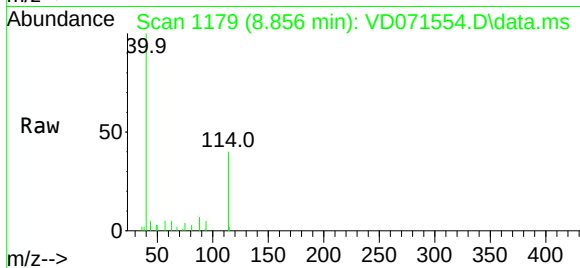
Instrument :

MSVOA_D

ClientSampleId :

TR-04-122921

Tgt Ion:	114	Resp:	11312
Ion Ratio	Lower	Upper	
114	100		
63	13.1	0.0	41.8
88	16.5	0.0	32.8



#35

Dibromofluoromethane

Concen: 43.328 ug/l

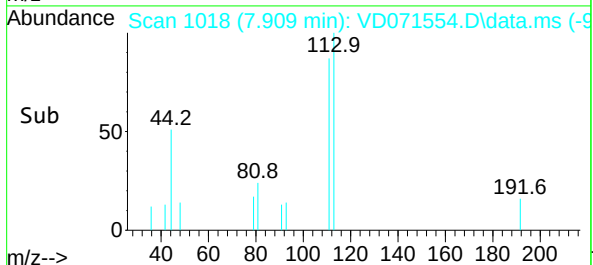
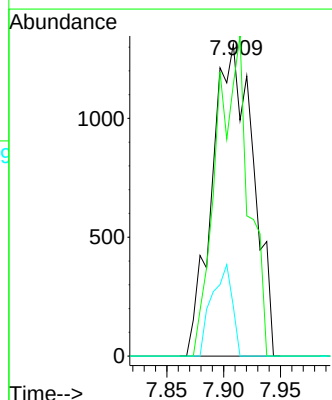
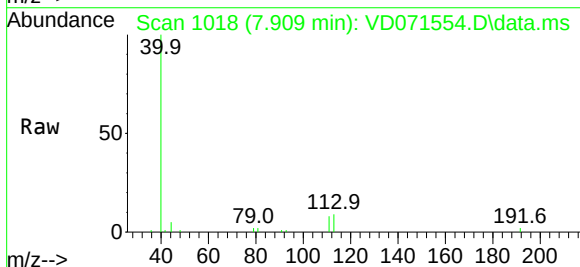
RT: 7.909 min Scan# 1018

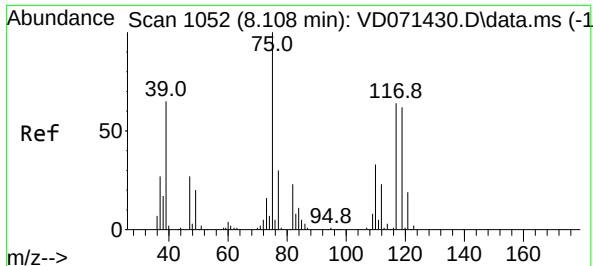
Delta R.T. 0.001 min

Lab File: VD071554.D

Acq: 30 Dec 2021 17:35

Tgt Ion:	113	Resp:	3294
Ion Ratio	Lower	Upper	
113	100		
111	80.6	82.0	123.0#
192	14.6	15.2	22.8#





#36

1,1-Dichloropropene

Concen: 4.619 ug/l

RT: 7.979 min Scan# 10

Delta R.T. -0.129 min

Lab File: VD071554.D

Acq: 30 Dec 2021 17:35

Instrument :

MSVOA_D

ClientSampleId :

TR-04-122921

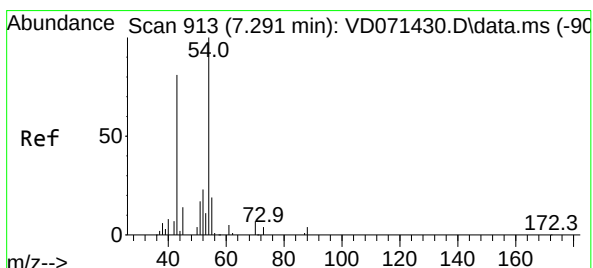
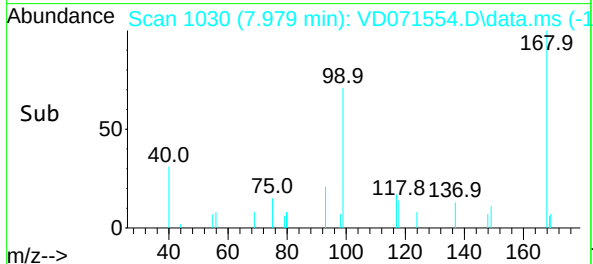
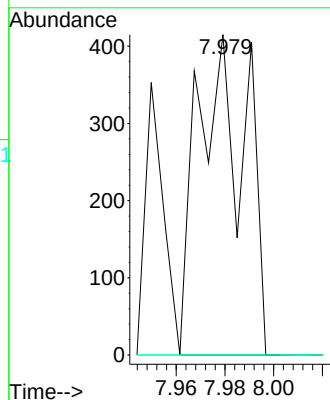
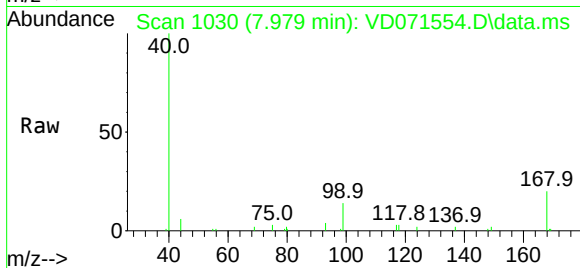
Tgt Ion: 75 Resp: 561

Ion Ratio Lower Upper

75 100

110 0.0 17.8 53.4#

77 0.0 24.8 37.2#



#37

Ethyl Acetate

Concen: 2.087 ug/l

RT: 7.226 min Scan# 902

Delta R.T. -0.059 min

Lab File: VD071554.D

Acq: 30 Dec 2021 17:35

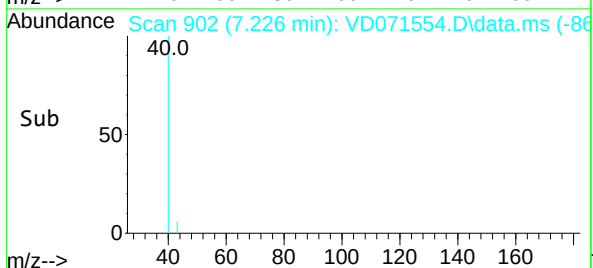
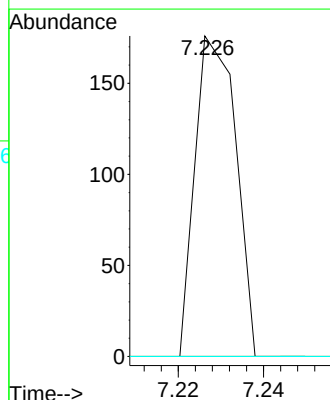
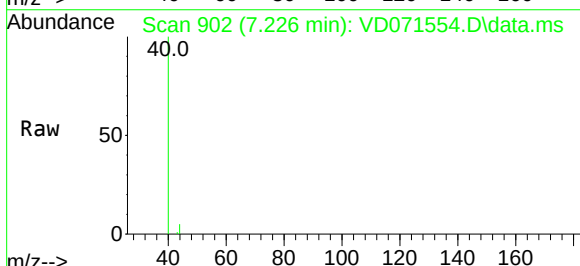
Tgt Ion: 43 Resp: 117

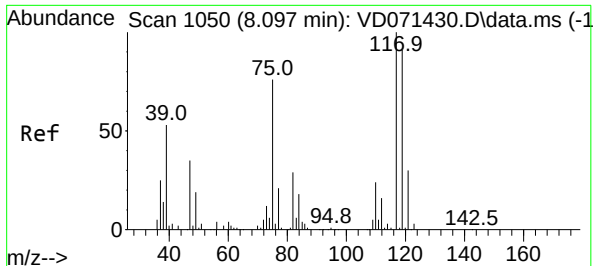
Ion Ratio Lower Upper

43 100

61 0.0 13.0 19.6#

70 0.0 8.7 13.1#

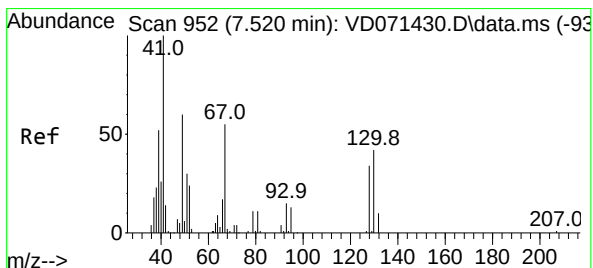
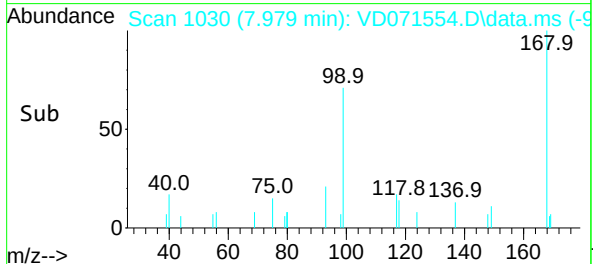
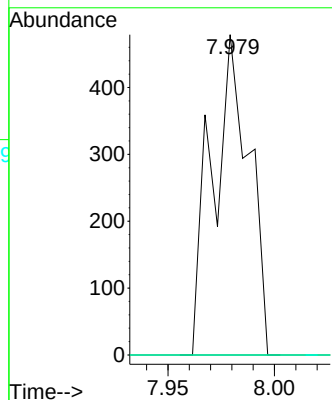
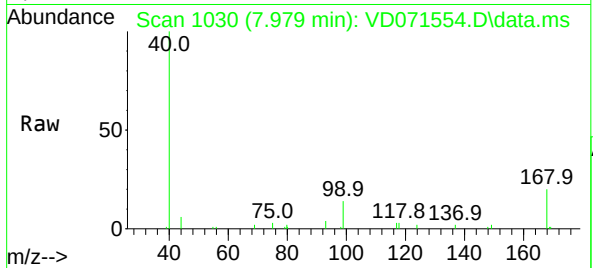




#38
Carbon Tetrachloride
Concen: 4.807 ug/l
RT: 7.979 min Scan# 1050
Delta R.T. -0.118 min
Lab File: VD071554.D
Acq: 30 Dec 2021 17:35

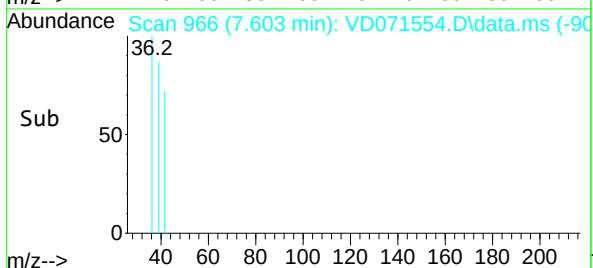
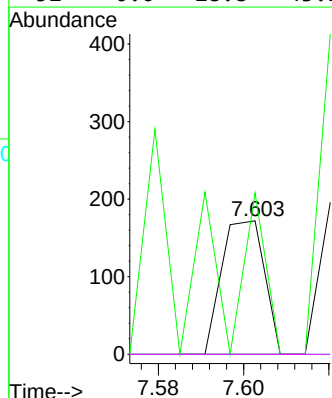
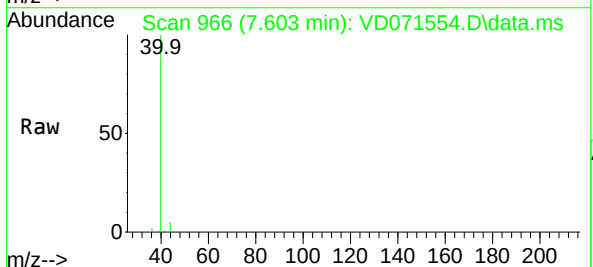
Instrument :
MSVOA_D
ClientSampleId :
TR-04-122921

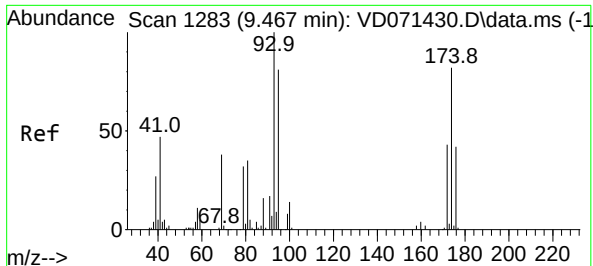
Tgt Ion:117 Resp: 576
Ion Ratio Lower Upper
117 100
119 0.0 75.8 113.6#
121 0.0 23.6 35.4#



#41
Methacrylonitrile
Concen: 3.603 ug/l
RT: 7.603 min Scan# 966
Delta R.T. 0.077 min
Lab File: VD071554.D
Acq: 30 Dec 2021 17:35

Tgt Ion: 41 Resp: 120
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#

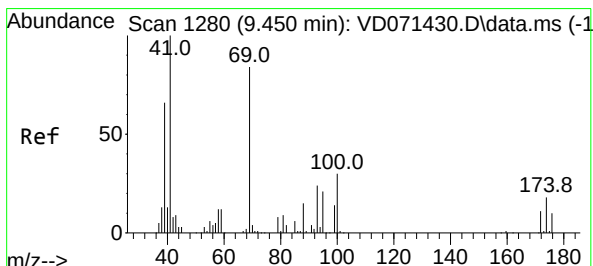
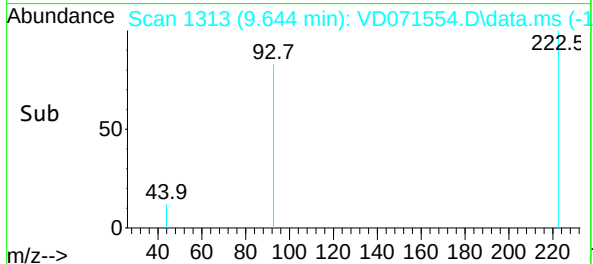
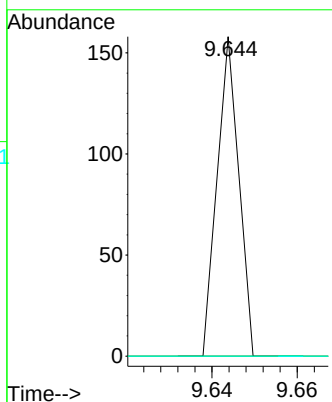
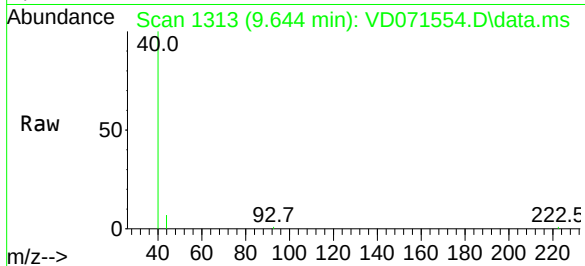




#46
Dibromomethane
Concen: 1.196 ug/l
RT: 9.644 min Scan# 11
Delta R.T. 0.177 min
Lab File: VD071554.D
Acq: 30 Dec 2021 17:35

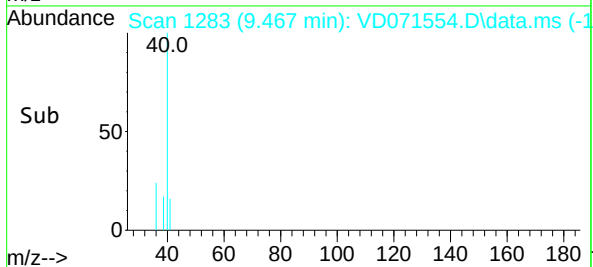
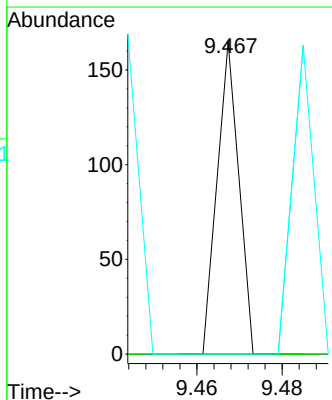
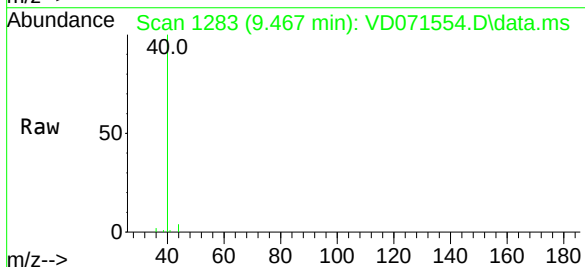
Instrument :
MSVOA_D
ClientSampleId :
TR-04-122921

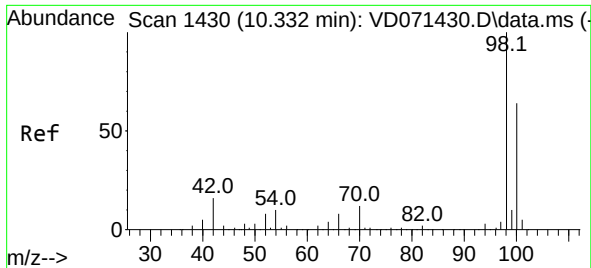
Tgt Ion: 93 Resp: 56
Ion Ratio Lower Upper
93 100
95 0.0 66.1 99.1#
174 0.0 78.6 117.8#



#48
Methyl methacrylate
Concen: 1.053 ug/l
RT: 9.467 min Scan# 1283
Delta R.T. 0.018 min
Lab File: VD071554.D
Acq: 30 Dec 2021 17:35

Tgt Ion: 41 Resp: 58
Ion Ratio Lower Upper
41 100
69 0.0 69.8 104.6#
39 0.0 35.6 53.4#

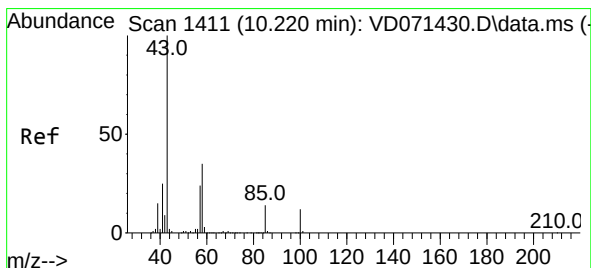
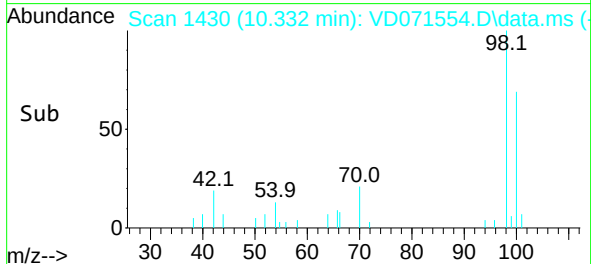
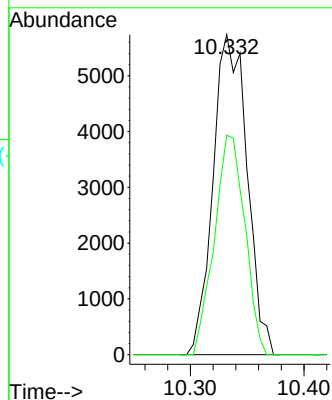
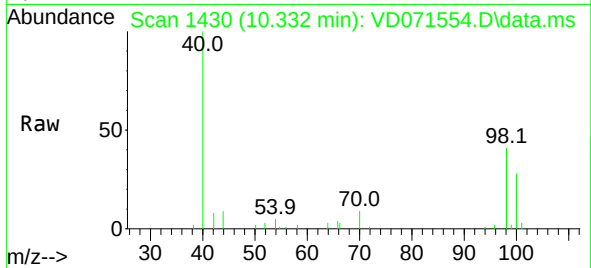




#50
Toluene-d8
Concen: 41.476 ug/l
RT: 10.332 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VD071554.D
Acq: 30 Dec 2021 17:35

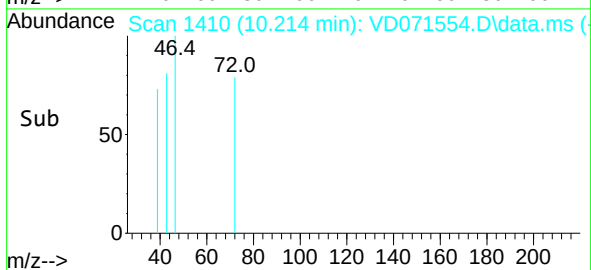
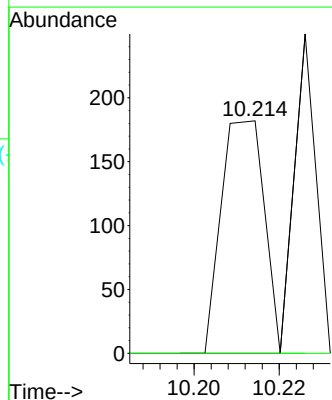
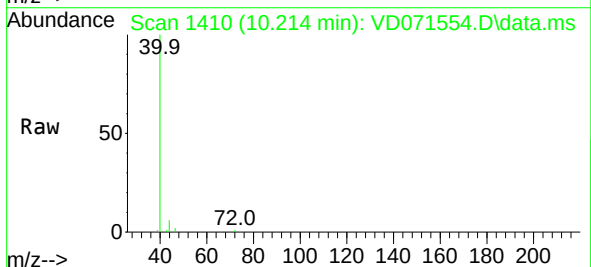
Instrument :
MSVOA_D
ClientSampleId :
TR-04-122921

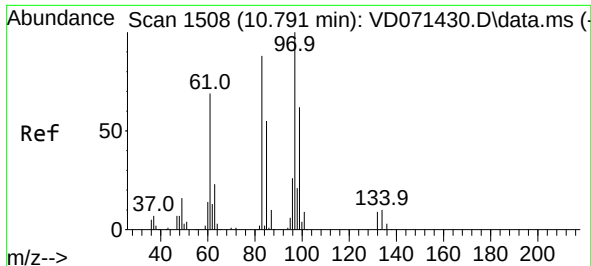
Tgt Ion: 98 Resp: 11916
Ion Ratio Lower Upper
98 100
100 61.5 51.8 77.6



#51
4-Methyl-2-Pentanone
Concen: 2.186 ug/l
RT: 10.214 min Scan# 1410
Delta R.T. -0.006 min
Lab File: VD071554.D
Acq: 30 Dec 2021 17:35

Tgt Ion: 43 Resp: 128
Ion Ratio Lower Upper
43 100
58 0.0 33.1 49.7#

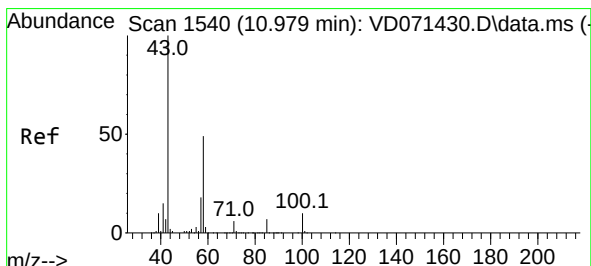
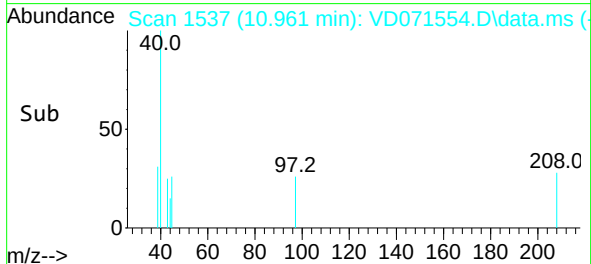
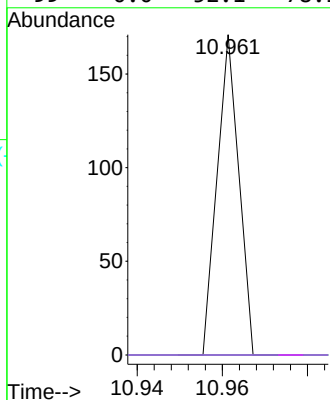
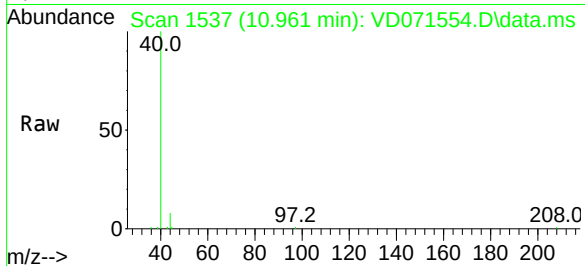




#55
 1,1,2-Trichloroethane
 Concen: 1.010 ug/l
 RT: 10.961 min Scan# 1537
 Delta R.T. 0.170 min
 Lab File: VD071554.D
 Acq: 30 Dec 2021 17:35

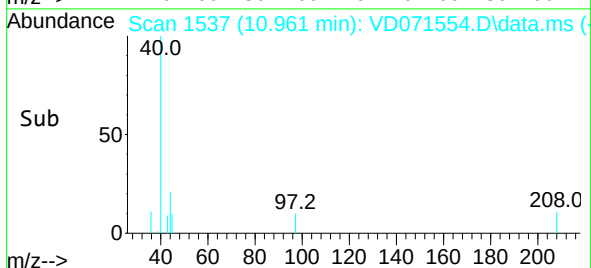
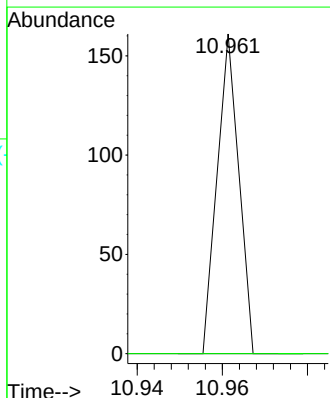
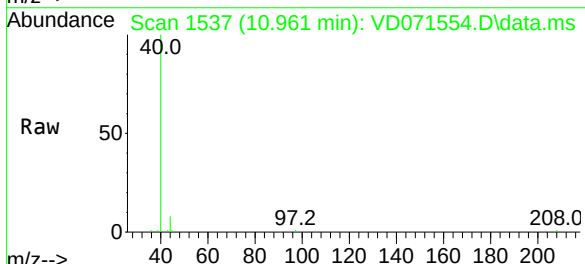
Instrument :
 MSVOA_D
 ClientSampleId :
 TR-04-122921

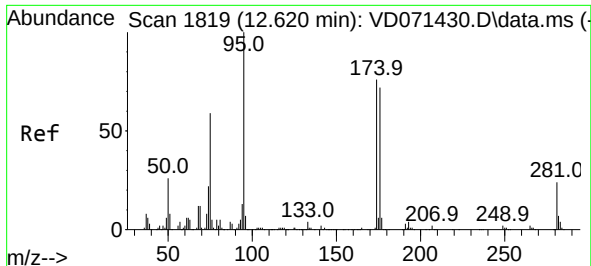
Tgt Ion: 97	Resp:	60
Ion	Ratio	Lower Upper
97	100	
83	0.0	65.2 97.8#
85	0.0	43.4 65.0#
99	0.0	52.1 78.1#



#59
 2-Hexanone
 Concen: 1.377 ug/l
 RT: 10.961 min Scan# 1537
 Delta R.T. -0.018 min
 Lab File: VD071554.D
 Acq: 30 Dec 2021 17:35

Tgt Ion: 43	Resp:	57
Ion	Ratio	Lower Upper
43	100	
58	0.0	28.7 86.1#

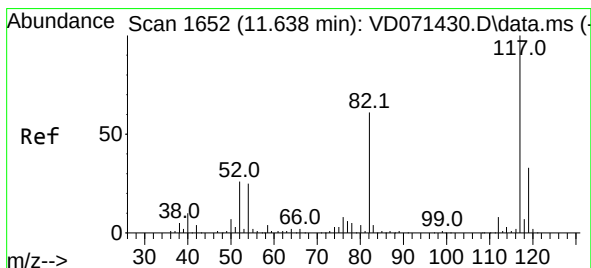
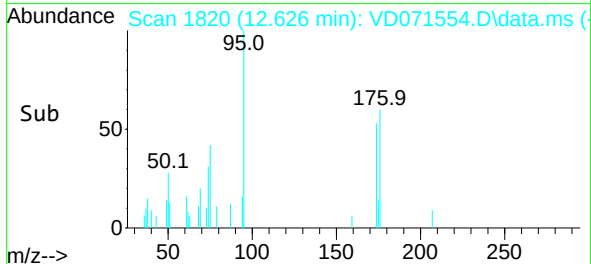
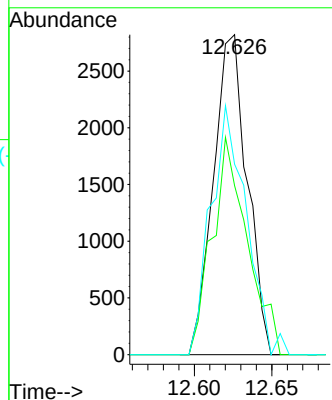
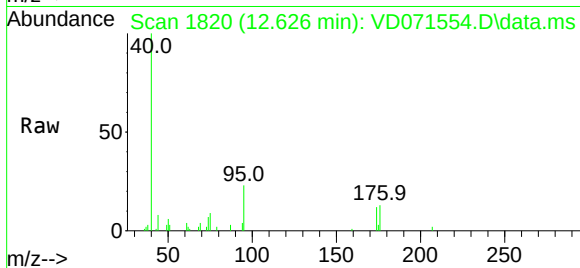




#62
4-Bromofluorobenzene
Concen: 41.825 ug/l
RT: 12.626 min Scan# 1819
Delta R.T. -0.000 min
Lab File: VD071554.D
Acq: 30 Dec 2021 17:35

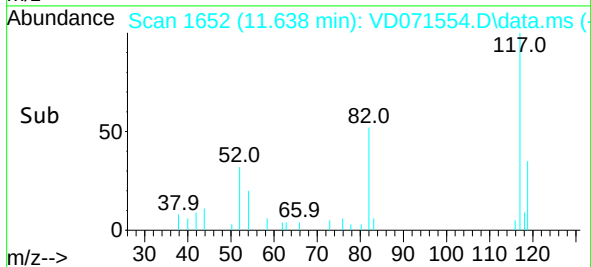
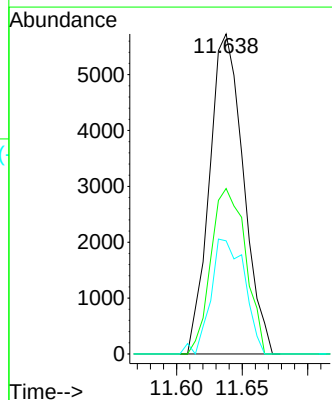
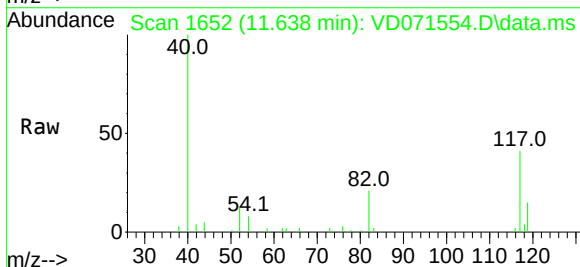
Instrument :
MSVOA_D
ClientSampleId :
TR-04-122921

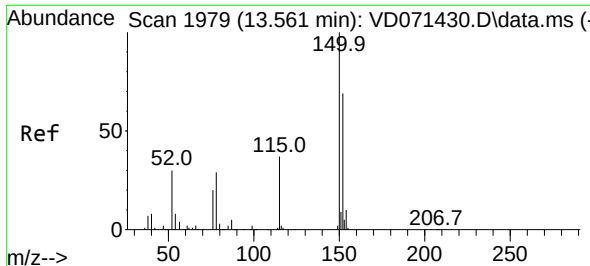
Tgt Ion: 95 Resp: 4270
Ion Ratio Lower Upper
95 100
174 70.7 0.0 159.4
176 81.8 0.0 154.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. -0.000 min
Lab File: VD071554.D
Acq: 30 Dec 2021 17:35

Tgt Ion: 117 Resp: 10315
Ion Ratio Lower Upper
117 100
82 51.7 44.7 67.1
119 35.3 26.2 39.4

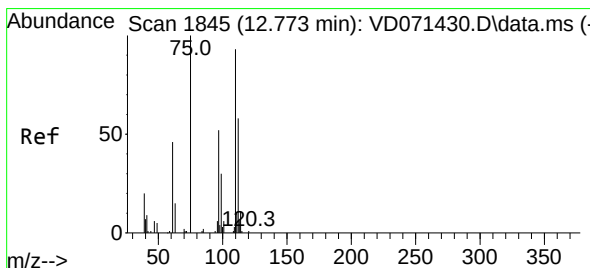
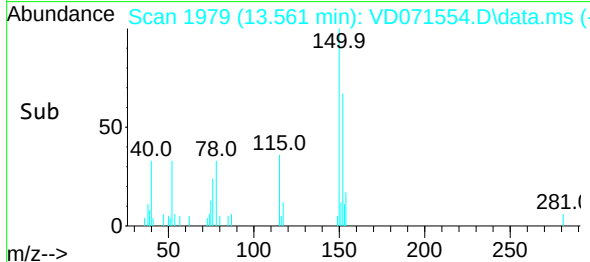
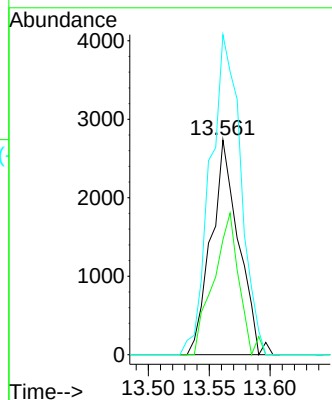
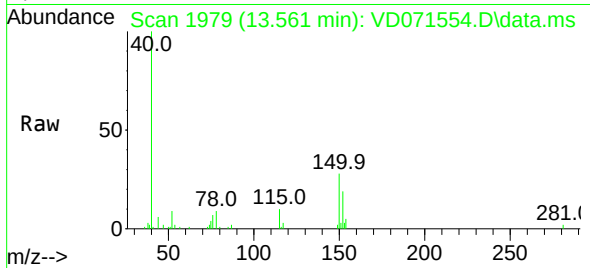




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.561 min Scan# 1979
 Delta R.T. 0.000 min
 Lab File: VD071554.D
 Acq: 30 Dec 2021 17:35

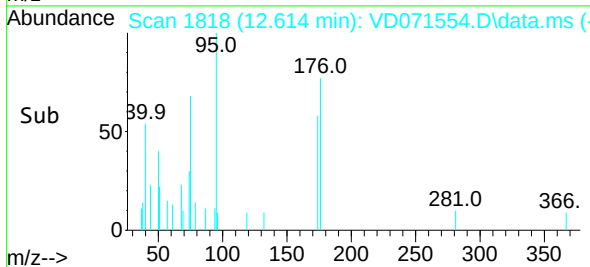
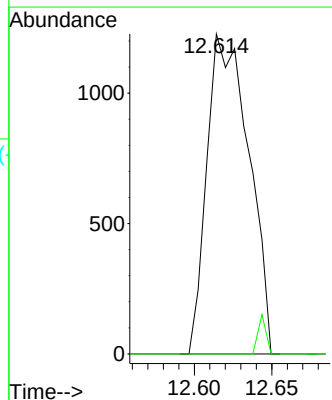
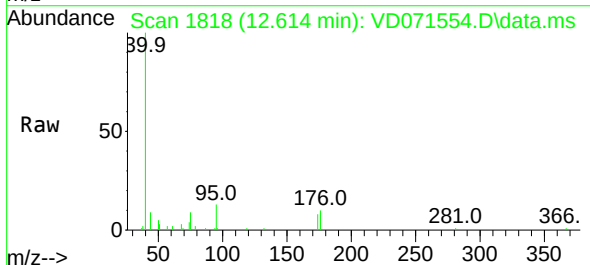
Instrument :
 MSVOA_D
 ClientSampleId :
 TR-04-122921

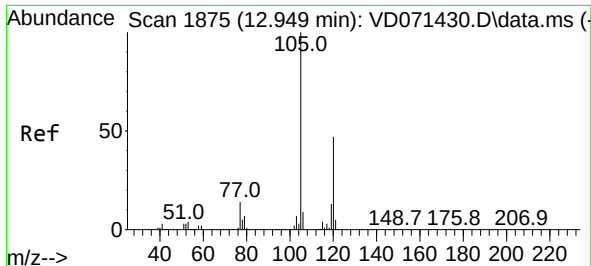
Tgt Ion:152 Resp: 4283
 Ion Ratio Lower Upper
 152 100
 115 61.1 29.8 89.3
 150 165.8 0.0 349.2



#76
 1,2,3-Trichloropropane
 Concen: 45.137 ug/l
 RT: 12.614 min Scan# 1818
 Delta R.T. -0.159 min
 Lab File: VD071554.D
 Acq: 30 Dec 2021 17:35

Tgt Ion: 75 Resp: 2297
 Ion Ratio Lower Upper
 75 100
 77 0.0 158.4 475.3#

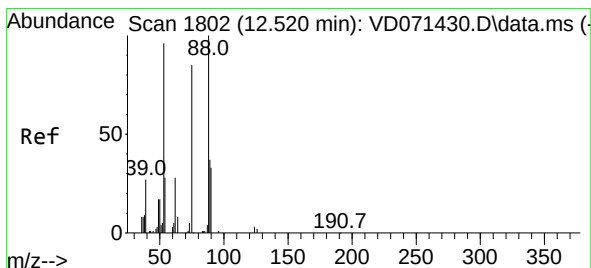
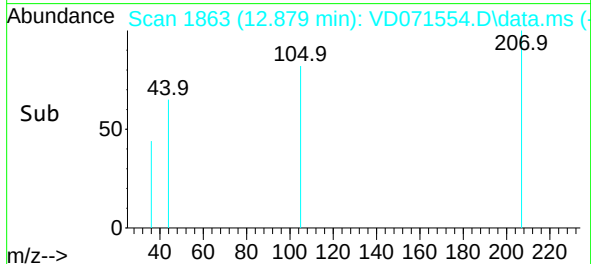
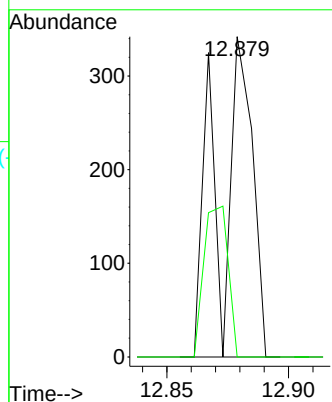
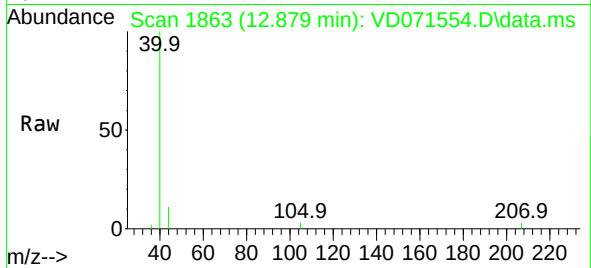




#80
 1,3,5-Trimethylbenzene
 Concen: 1.182 ug/l
 RT: 12.879 min Scan# 1863
 Delta R.T. -0.070 min
 Lab File: VD071554.D
 Acq: 30 Dec 2021 17:35

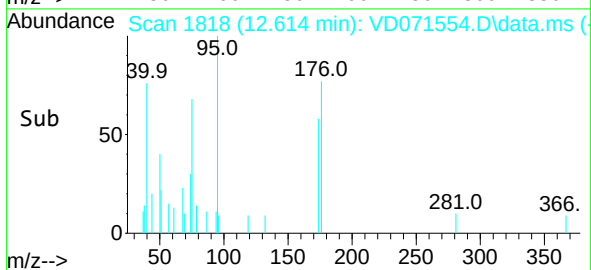
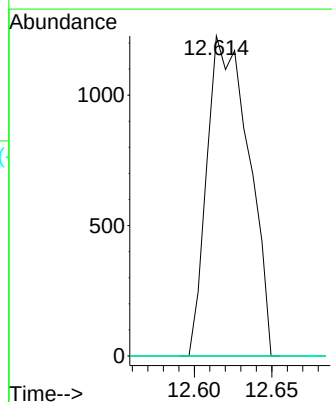
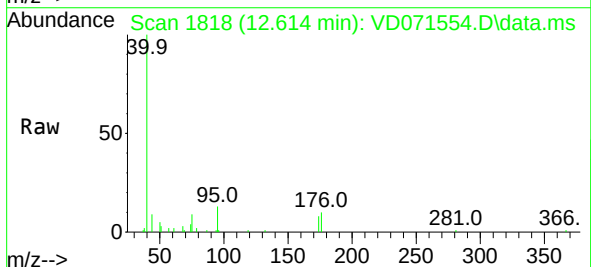
Instrument :
 MSVOA_D
 ClientSampleId :
 TR-04-122921

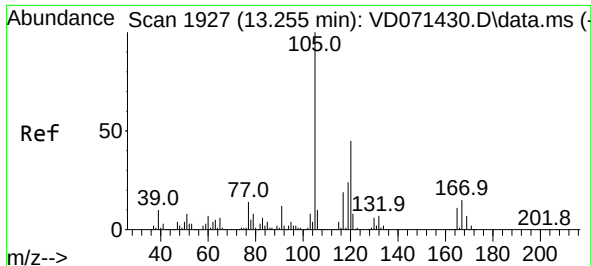
Tgt Ion:105 Resp: 322
 Ion Ratio Lower Upper
 105 100
 120 34.5 24.6 73.8



#81
 trans-1,4-Dichloro-2-butene
 Concen: 127.535 ug/l
 RT: 12.614 min Scan# 1818
 Delta R.T. 0.094 min
 Lab File: VD071554.D
 Acq: 30 Dec 2021 17:35

Tgt Ion: 75 Resp: 2297
 Ion Ratio Lower Upper
 75 100
 53 0.0 62.6 94.0#
 89 0.0 34.5 51.7#





#84

1,2,4-Trimethylbenzene

Concen: 3.877 ug/l

RT: 13.261 min Scan# 1927

Delta R.T. 0.000 min

Lab File: VD071554.D

Acq: 30 Dec 2021 17:35

Instrument :

MSVOA_D

ClientSampleId :

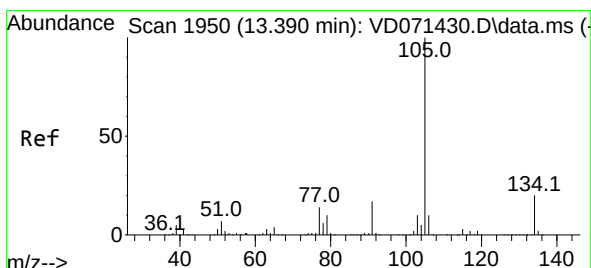
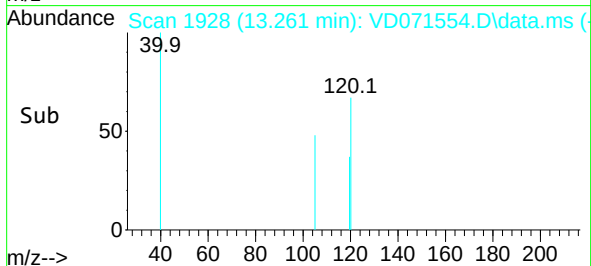
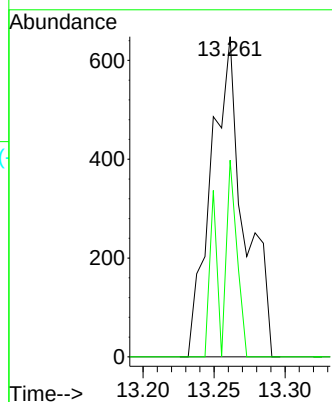
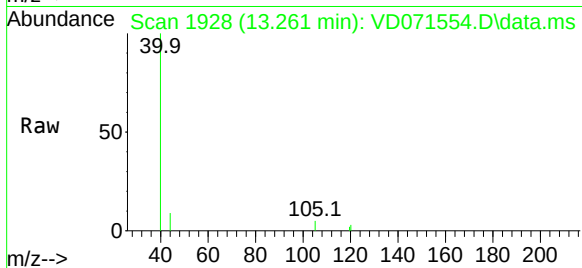
TR-04-122921

Tgt Ion:105 Resp: 1045

Ion Ratio Lower Upper

105 100

120 30.8 22.9 68.7



#85

sec-Butylbenzene

Concen: 2.945 ug/l

RT: 13.261 min Scan# 1928

Delta R.T. -0.129 min

Lab File: VD071554.D

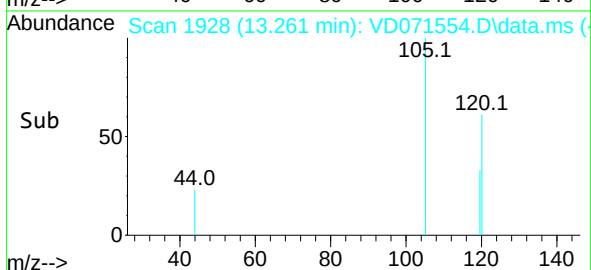
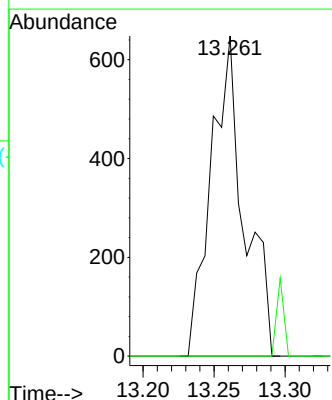
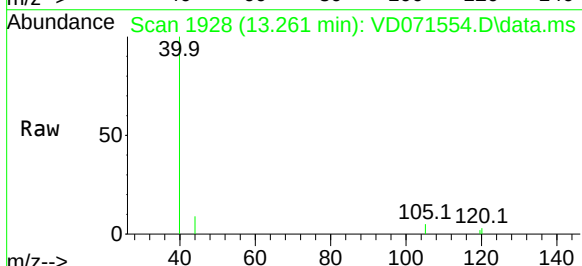
Acq: 30 Dec 2021 17:35

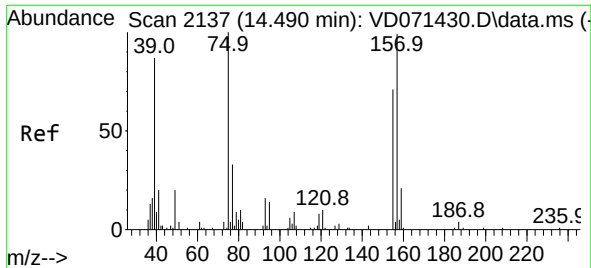
Tgt Ion:105 Resp: 1045

Ion Ratio Lower Upper

105 100

134 0.0 9.7 28.9#





#92

1,2-Dibromo-3-Chloropropane

Concen: 6.472 ug/l

RT: 14.520 min Scan# 21

Delta R.T. 0.030 min

Lab File: VD071554.D

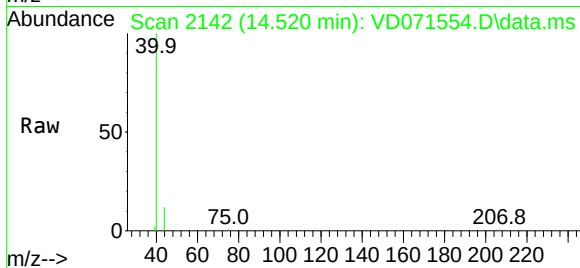
Acq: 30 Dec 2021 17:35

Instrument :

MSVOA_D

ClientSampleId :

TR-04-122921



Tgt Ion: 75 Resp: 67

Ion Ratio Lower Upper

75 100

155 0.0 40.0 120.0#

157 0.0 49.8 149.3#

