

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD121621\
 Data File : VD071368.D
 Acq On : 16 Dec 2021 15:39
 Operator : VA/SY
 Sample : M5111-01
 Misc : 5.55G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 16 23:49:45 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D112921S.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 29 17:54:09 2021
 Response via : Initial Calibration

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

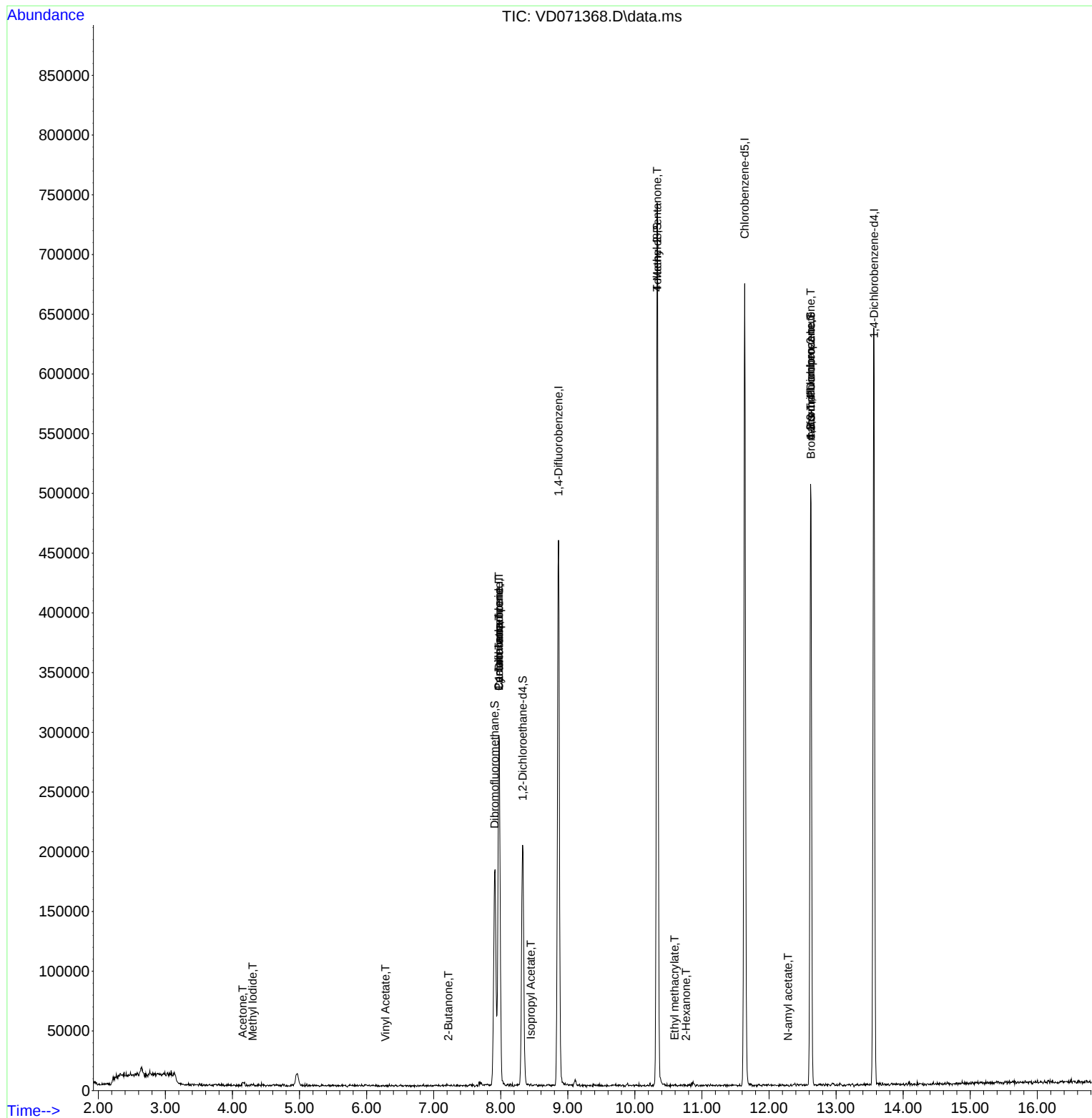
Internal Standards						
1) Pentafluorobenzene	7.973	168	203939	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	8.861	114	365981	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	345075	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	152110	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	160850	67.217	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 134.440%	
35) Dibromofluoromethane	7.909	113	127895	54.878	ug/l	-0.01
Spiked Amount	50.000	Range	54 - 147	Recovery	= 109.760%	
50) Toluene-d8	10.332	98	464158	52.336	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 104.680%	
62) 4-Bromofluorobenzene	12.620	95	154832	50.364	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 100.720%	
Target Compounds						
					Qvalue	
10) Methyl Iodide	4.303	142	218	4.644	ug/l #	40
11) Tert butyl alcohol	5.226	59	117	Below Cal	#	71
16) Acetone	4.150	43	4585	37.123	ug/l #	64
20) Methylene Chloride	4.962	84	7322	Below Cal	#	75
23) Vinyl Acetate	6.279	43	67	27.234	ug/l #	72
25) 2-Butanone	7.220	43	469	28.926	ug/l #	45
31) Cyclohexane	7.973	56	6176	1.517	ug/l #	21
36) 1,1-Dichloropropene	7.973	75	20526	6.001	ug/l #	46
38) Carbon Tetrachloride	7.973	117	21596	6.405	ug/l #	17
41) Methacrylonitrile	7.520	41	110	Below Cal	#	26
43) Isopropyl Acetate	8.450	43	58	5.239	ug/l #	47
51) 4-Methyl-2-Pentanone	10.332	43	2860	32.158	ug/l #	1
56) Ethyl methacrylate	10.591	69	56	5.991	ug/l #	1
59) 2-Hexanone	10.761	43	92	34.637	ug/l	95
71) Bromoform	12.626	173	1956	1.615	ug/l #	1
74) N-amyl acetate	12.285	43	56	5.718	ug/l #	12
76) 1,2,3-Trichloropropane	12.620	75	86670	59.804	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.620	75	86670	129.499	ug/l #	18

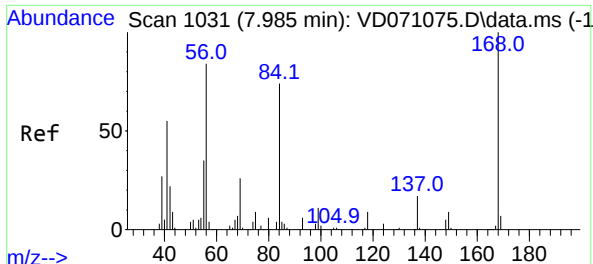
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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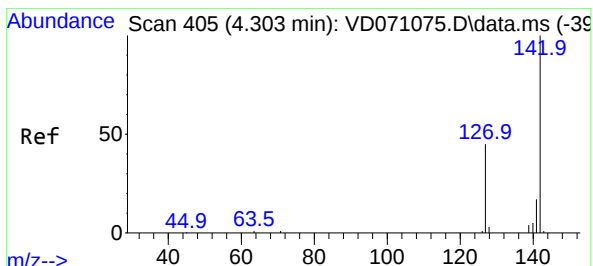
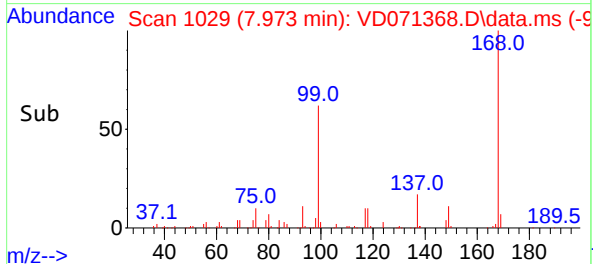
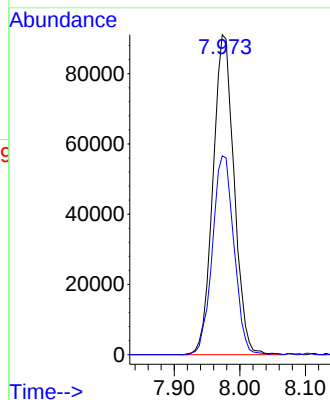
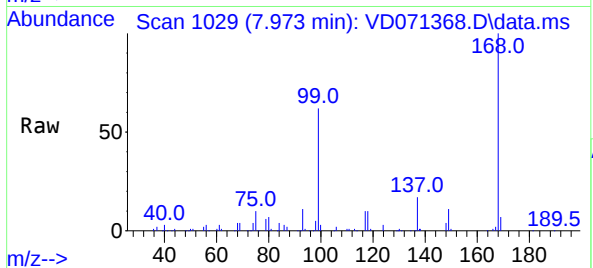




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.973 min Scan# 1031
Delta R.T. -0.012 min
Lab File: VD071368.D
Acq: 16 Dec 2021 15:39

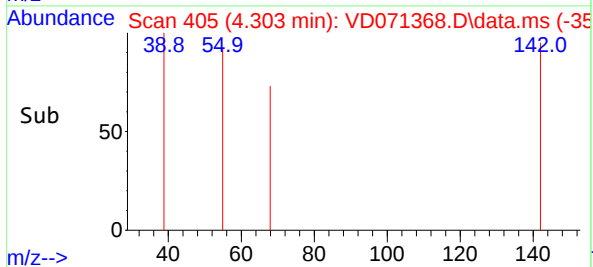
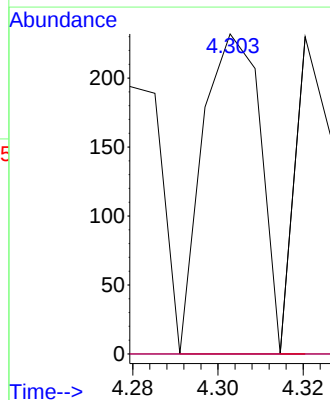
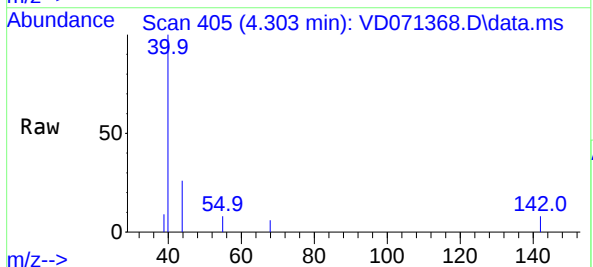
Instrument :
MSVOA_D
ClientSampleId :

Tgt Ion:168 Resp: 203939
Ion Ratio Lower Upper
168 100
99 62.2 46.6 69.8



#10
Methyl Iodide
Concen: 4.644 ug/l
RT: 4.303 min Scan# 405
Delta R.T. -0.000 min
Lab File: VD071368.D
Acq: 16 Dec 2021 15:39

Tgt Ion:142 Resp: 218
Ion Ratio Lower Upper
142 100
127 0.0 35.0 52.4#
141 0.0 12.0 18.0#

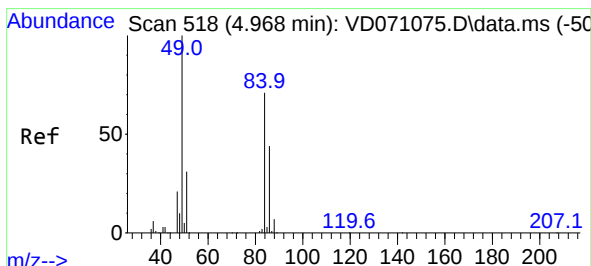
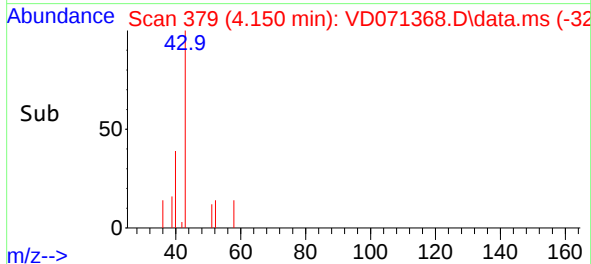
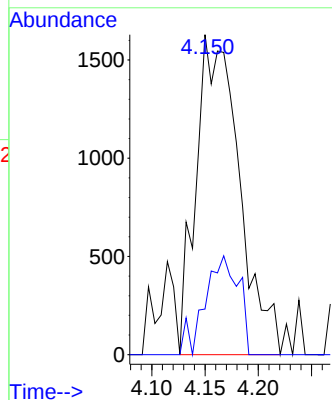
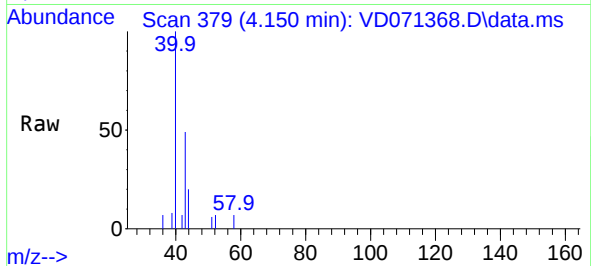




#16
Acetone
Concen: 37.123 ug/l
RT: 4.150 min Scan# 31
Delta R.T. -0.006 min
Lab File: VD071368.D
Acq: 16 Dec 2021 15:39

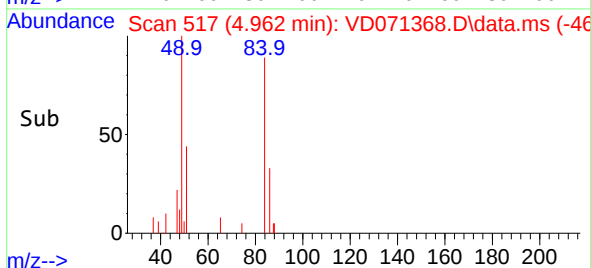
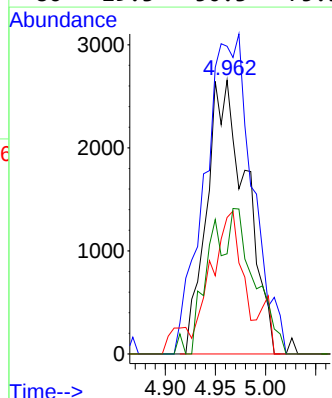
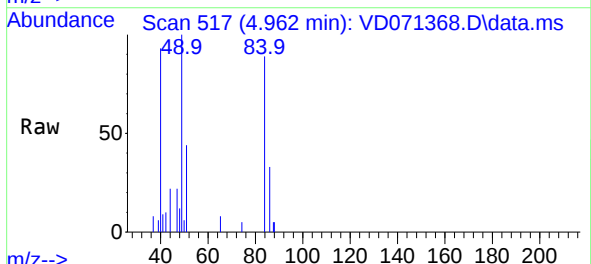
Instrument :
MSVOA_D
ClientSampleId :

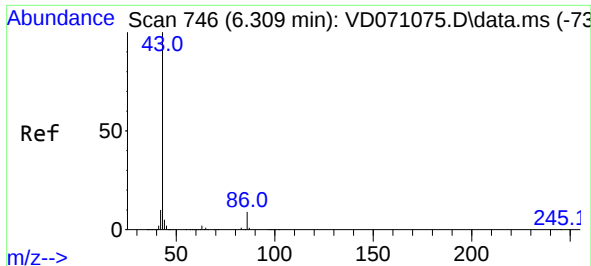
Tgt Ion: 43 Resp: 4585
Ion Ratio Lower Upper
43 100
58 14.2 27.8 41.8#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.962 min Scan# 517
Delta R.T. -0.006 min
Lab File: VD071368.D
Acq: 16 Dec 2021 15:39

Tgt Ion: 84 Resp: 7322
Ion Ratio Lower Upper
84 100
49 101.1 95.8 143.6
51 49.9 30.9 46.3#
86 29.3 50.3 75.5#

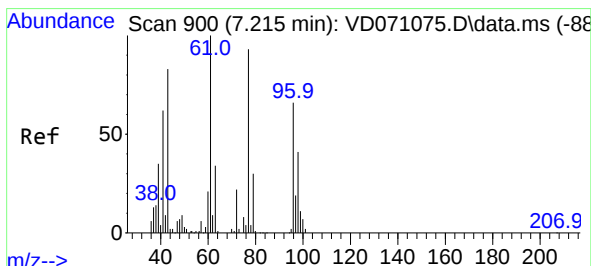
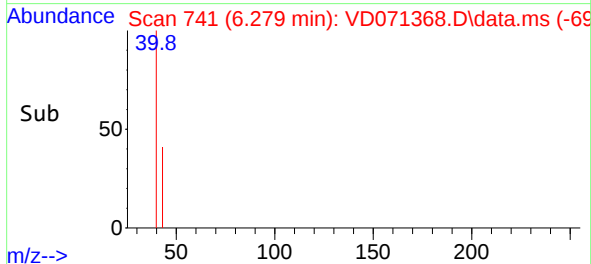
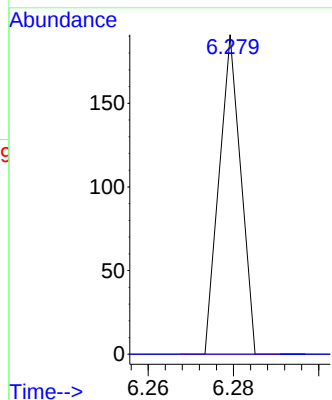
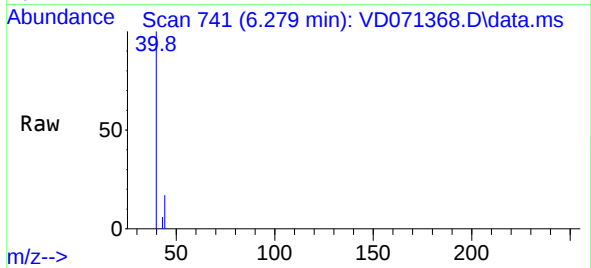




#23
 Vinyl Acetate
 Concen: 27.234 ug/l
 RT: 6.279 min Scan# 741
 Delta R.T. -0.030 min
 Lab File: VD071368.D
 Acq: 16 Dec 2021 15:39

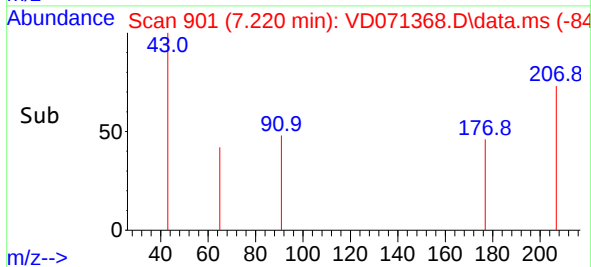
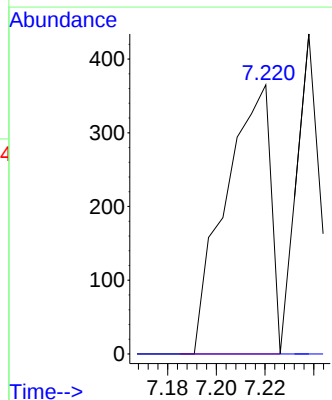
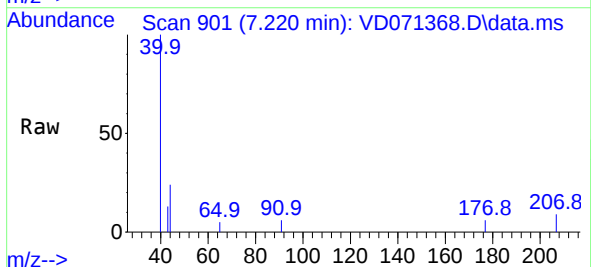
Instrument :
 MSVOA_D
 ClientSampleId :

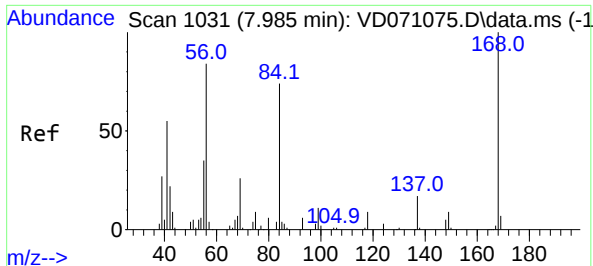
Tgt Ion: 43 Resp: 67
 Ion Ratio Lower Upper
 43 100
 86 0.0 8.2 12.4#



#25
 2-Butanone
 Concen: 28.926 ug/l
 RT: 7.220 min Scan# 901
 Delta R.T. 0.005 min
 Lab File: VD071368.D
 Acq: 16 Dec 2021 15:39

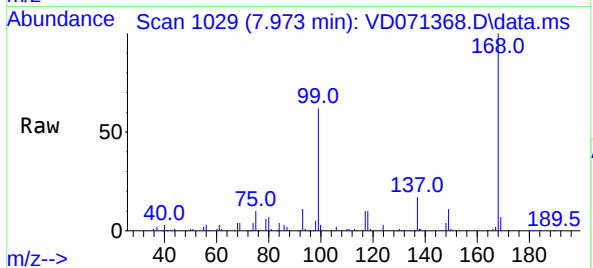
Tgt Ion: 43 Resp: 469
 Ion Ratio Lower Upper
 43 100
 72 0.0 23.8 35.6#



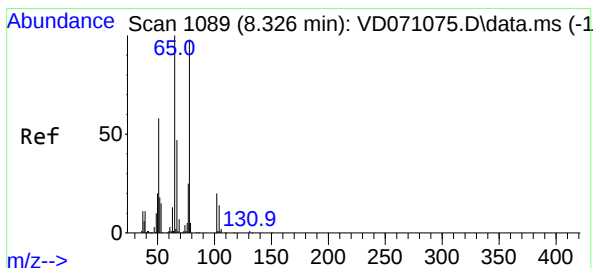
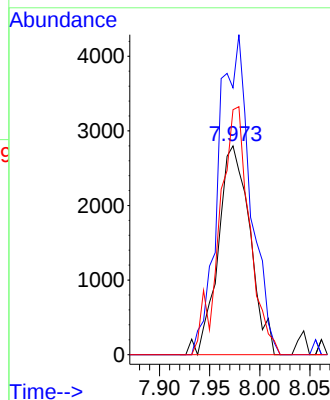
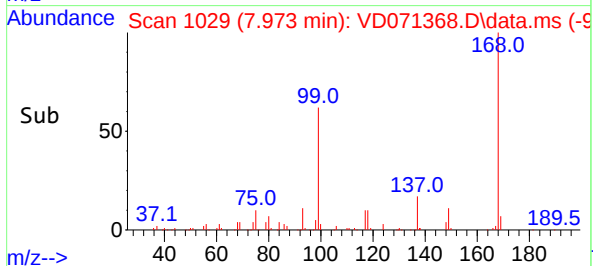


#31
Cyclohexane
Concen: 1.517 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.012 min
Lab File: VD071368.D
Acq: 16 Dec 2021 15:39

Instrument :
MSVOA_D
ClientSampleId :

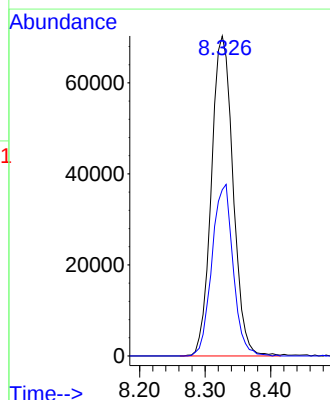
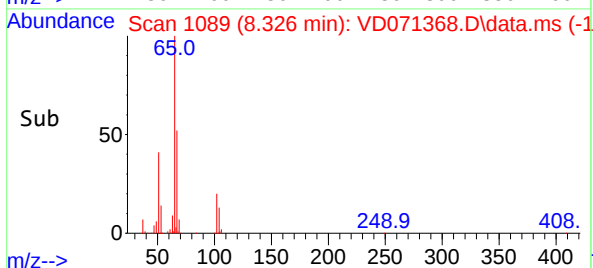
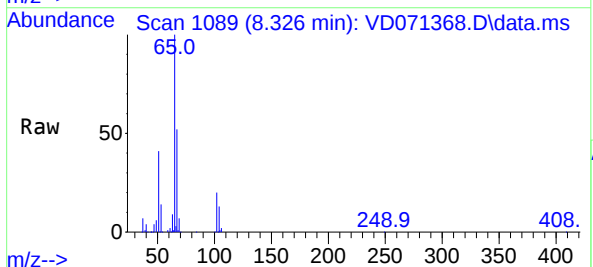


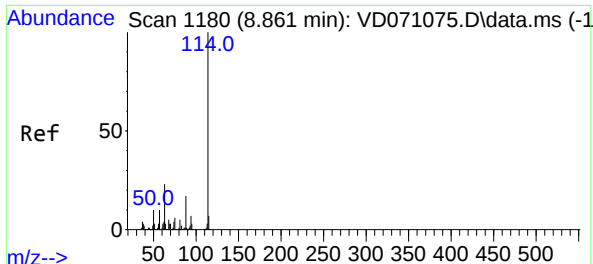
Tgt Ion: 56 Resp: 6176
Ion Ratio Lower Upper
56 100
69 127.8 25.9 38.9#
84 117.4 64.3 96.5#



#33
1,2-Dichloroethane-d4
Concen: 67.217 ug/l
RT: 8.326 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VD071368.D
Acq: 16 Dec 2021 15:39

Tgt Ion: 65 Resp: 160850
Ion Ratio Lower Upper
65 100
67 52.6 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: VD071368.D

Acq: 16 Dec 2021 15:39

Instrument :

MSVOA_D

ClientSampleId :

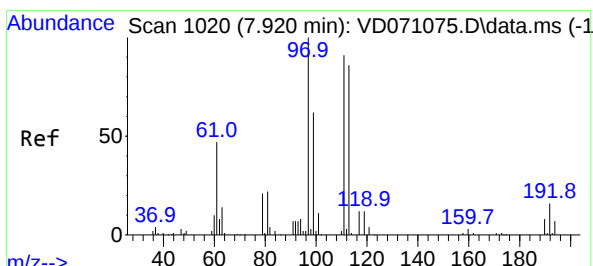
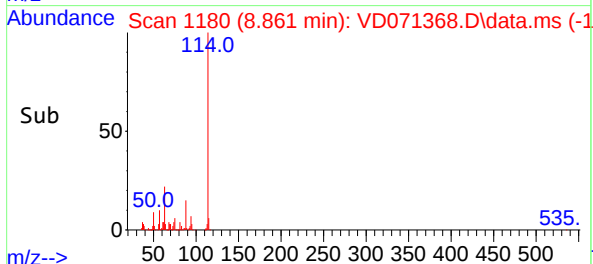
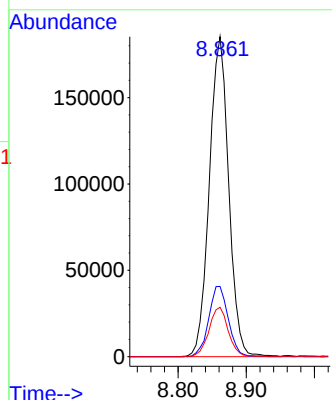
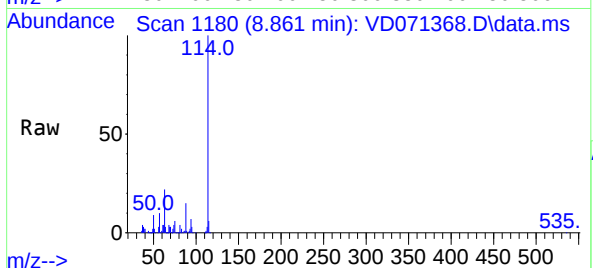
Tgt Ion:114 Resp: 365981

Ion Ratio Lower Upper

114 100

63 21.9 0.0 41.8

88 15.5 0.0 32.8



#35

Dibromofluoromethane

Concen: 54.878 ug/l

RT: 7.909 min Scan# 1018

Delta R.T. -0.011 min

Lab File: VD071368.D

Acq: 16 Dec 2021 15:39

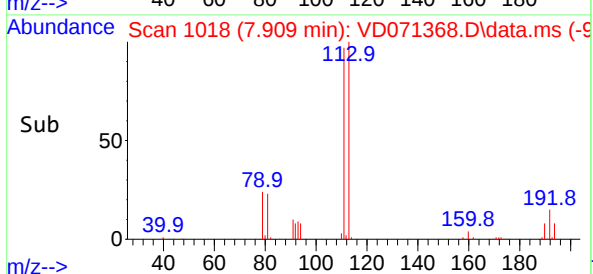
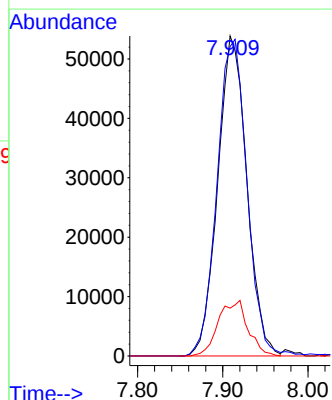
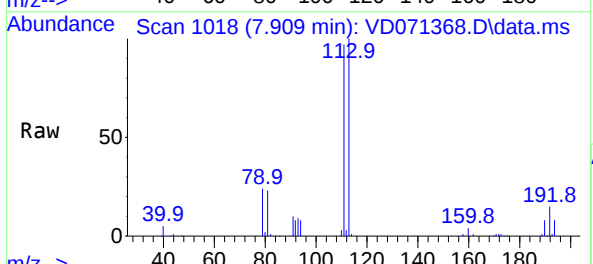
Tgt Ion:113 Resp: 127895

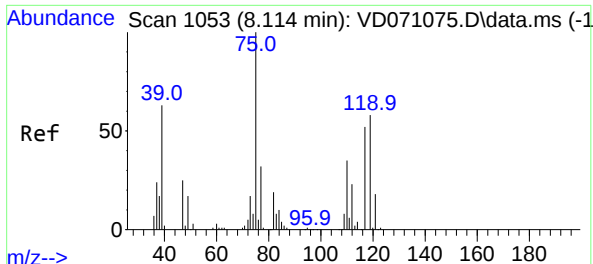
Ion Ratio Lower Upper

113 100

111 101.8 82.0 123.0

192 17.6 15.2 22.8





#36

1,1-Dichloropropene

Concen: 6.001 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.141 min

Lab File: VD071368.D

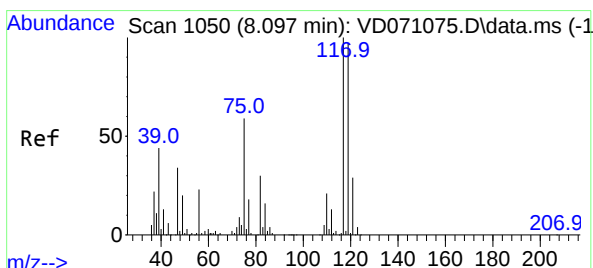
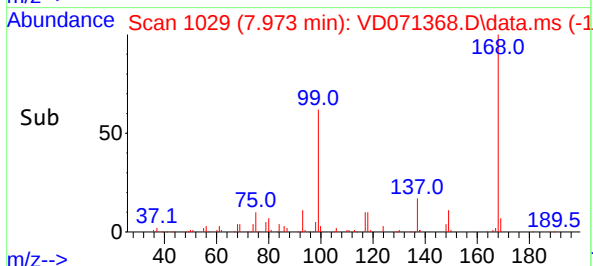
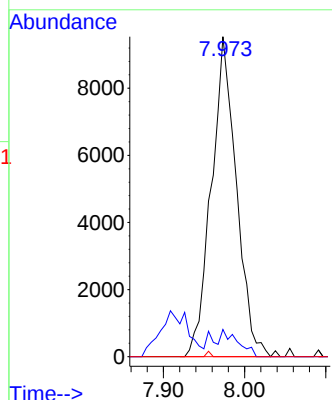
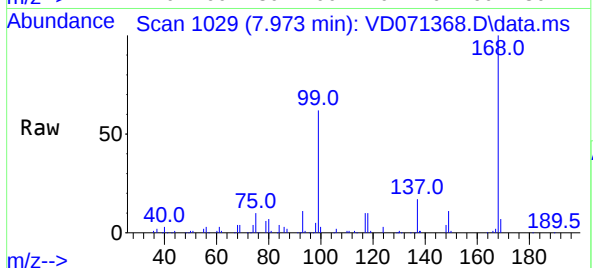
Acq: 16 Dec 2021 15:39

Instrument :

MSVOA_D

ClientSampleId :

Tgt Ion:	75	Resp:	20526
Ion	Ratio	Lower	Upper
75	100		
110	5.6	17.8	53.4#
77	0.0	24.8	37.2#



#38

Carbon Tetrachloride

Concen: 6.405 ug/l

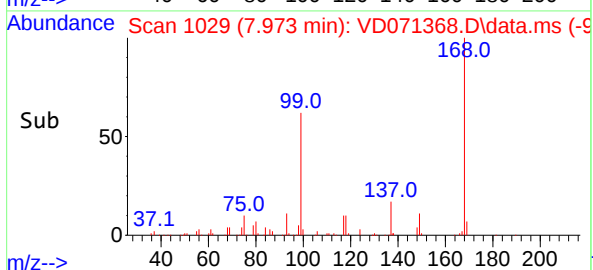
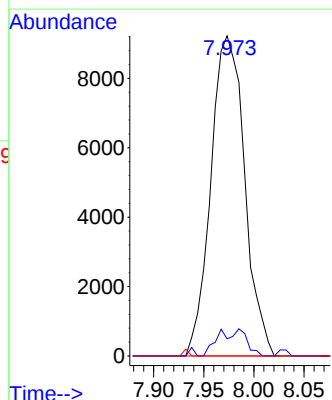
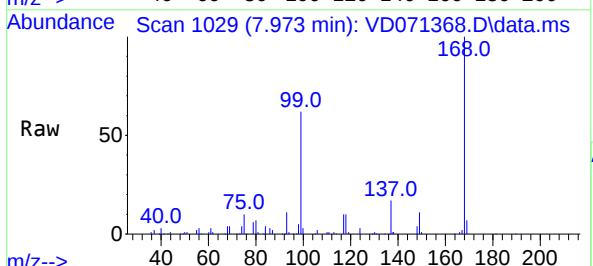
RT: 7.973 min Scan# 1029

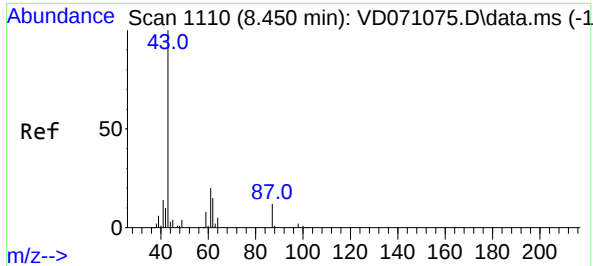
Delta R.T. -0.124 min

Lab File: VD071368.D

Acq: 16 Dec 2021 15:39

Tgt Ion:	117	Resp:	21596
Ion	Ratio	Lower	Upper
117	100		
119	5.4	75.8	113.6#
121	0.0	23.6	35.4#

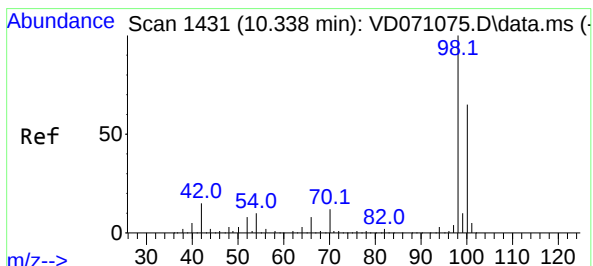
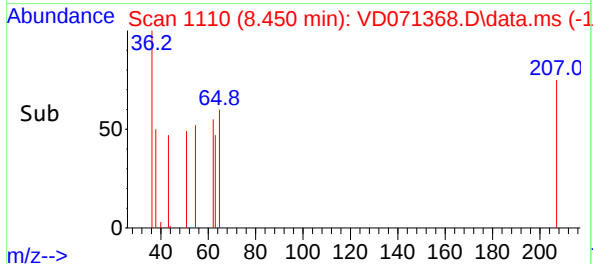
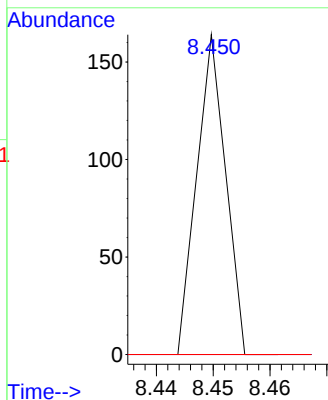
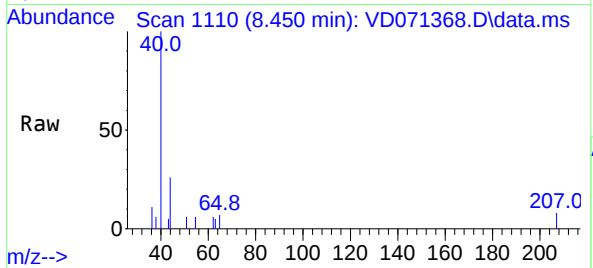




#43
Isopropyl Acetate
Concen: 5.239 ug/l
RT: 8.450 min Scan# 1110
Delta R.T. -0.000 min
Lab File: VD071368.D
Acq: 16 Dec 2021 15:39

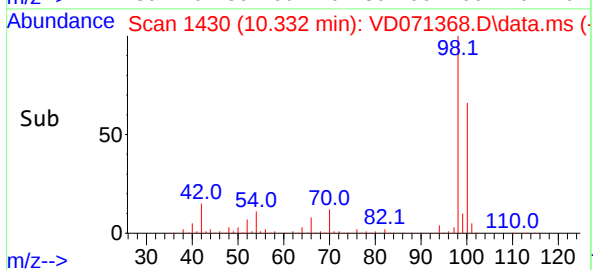
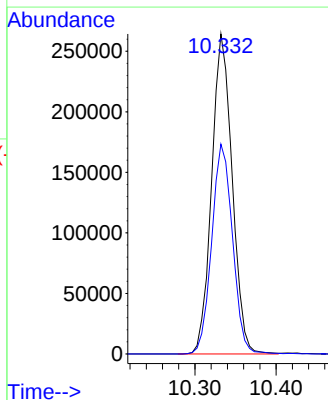
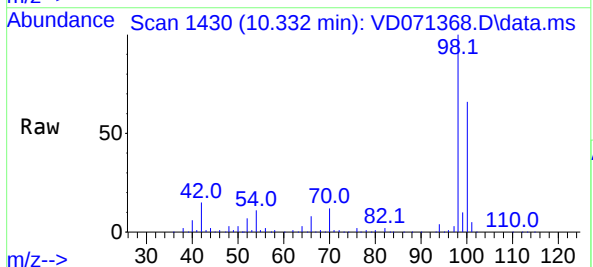
Instrument :
MSVOA_D
ClientSampleId :

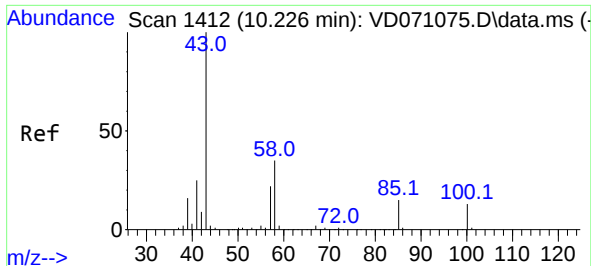
Tgt Ion: 43 Resp: 58
Ion Ratio Lower Upper
43 100
61 0.0 28.2 42.4#
87 0.0 10.7 16.1#



#50
Toluene-d8
Concen: 52.336 ug/l
RT: 10.332 min Scan# 1430
Delta R.T. -0.006 min
Lab File: VD071368.D
Acq: 16 Dec 2021 15:39

Tgt Ion: 98 Resp: 464158
Ion Ratio Lower Upper
98 100
100 66.6 51.8 77.6





#51

4-Methyl-2-Pentanone

Concen: 32.158 ug/l

RT: 10.332 min Scan# 1412

Delta R.T. 0.106 min

Lab File: VD071368.D

Acq: 16 Dec 2021 15:39

Instrument :

MSVOA_D

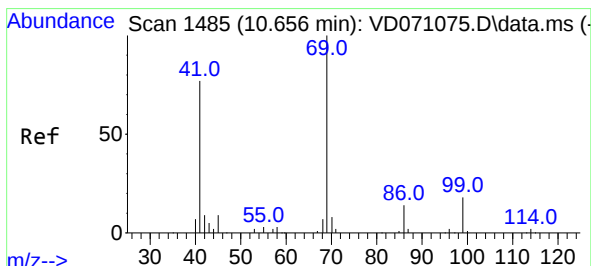
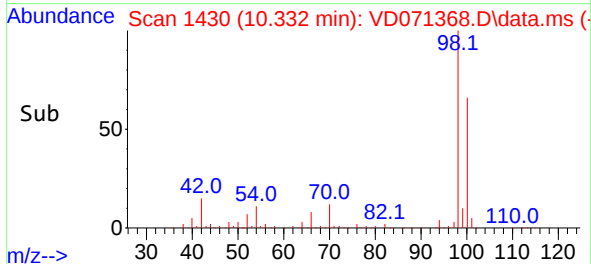
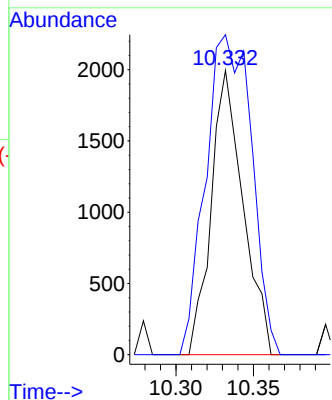
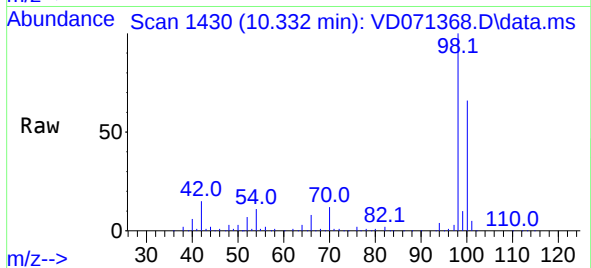
ClientSampleId :

Tgt Ion: 43 Resp: 2860

Ion Ratio Lower Upper

43 100

58 161.8 33.1 49.7#



#56

Ethyl methacrylate

Concen: 5.991 ug/l

RT: 10.591 min Scan# 1474

Delta R.T. -0.065 min

Lab File: VD071368.D

Acq: 16 Dec 2021 15:39

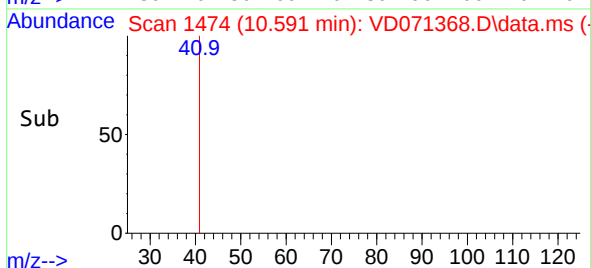
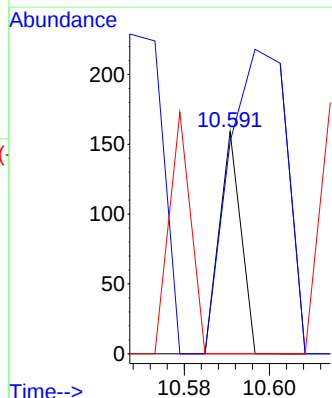
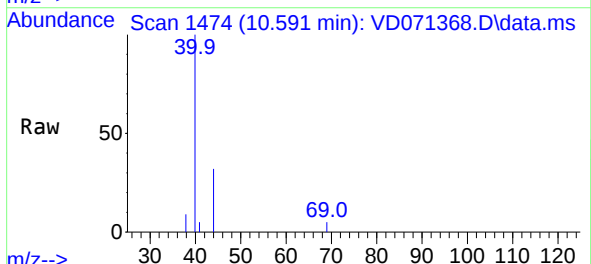
Tgt Ion: 69 Resp: 56

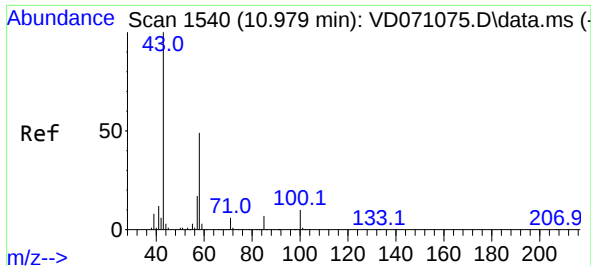
Ion Ratio Lower Upper

69 100

41 364.3 50.2 75.2#

39 108.9 19.8 29.8#

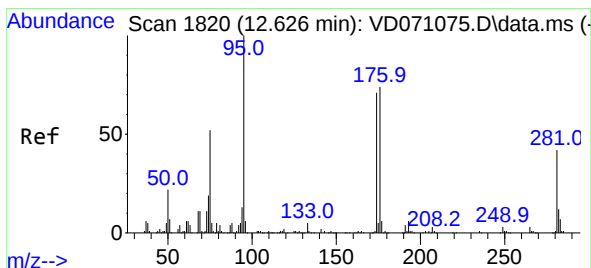
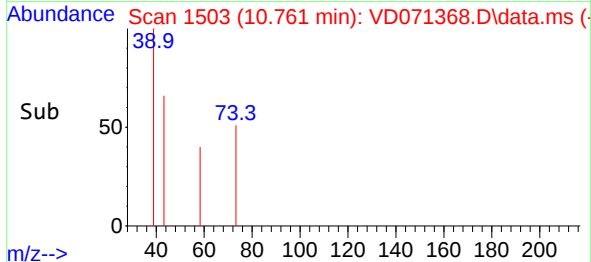
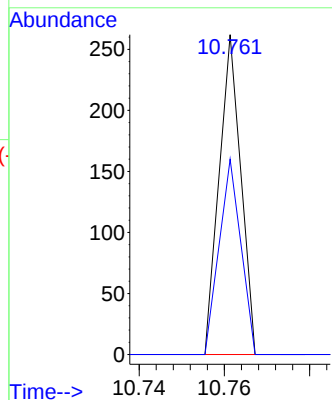
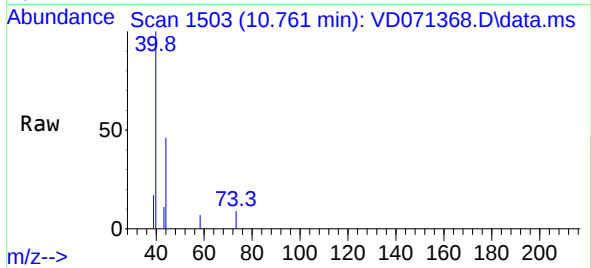




#59
2-Hexanone
Concen: 34.637 ug/l
RT: 10.761 min Scan# 11
Delta R.T. -0.218 min
Lab File: VD071368.D
Acq: 16 Dec 2021 15:39

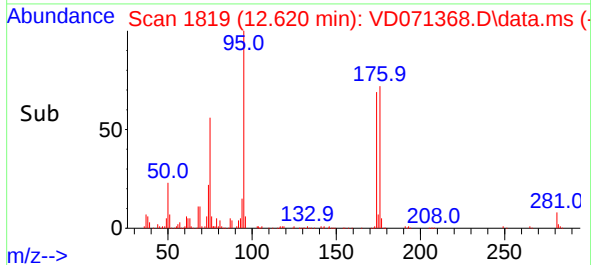
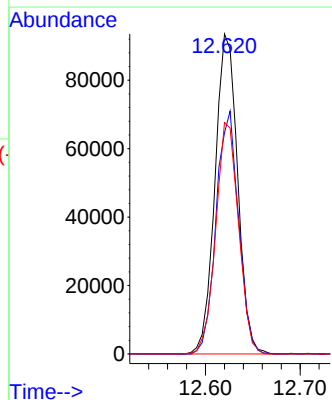
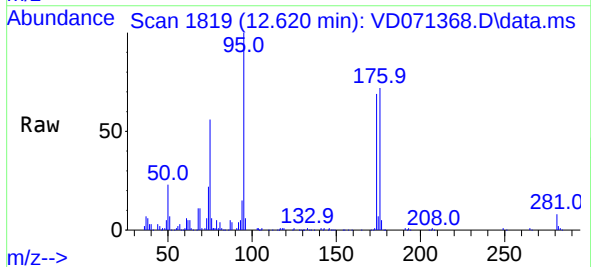
Instrument :
MSVOA_D
ClientSampleId :

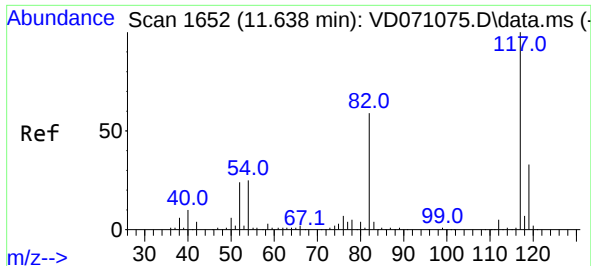
Tgt Ion: 43 Resp: 92
Ion Ratio Lower Upper
43 100
58 60.9 28.7 86.1



#62
4-Bromofluorobenzene
Concen: 50.364 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.006 min
Lab File: VD071368.D
Acq: 16 Dec 2021 15:39

Tgt Ion: 95 Resp: 154832
Ion Ratio Lower Upper
95 100
174 75.8 0.0 159.4
176 73.2 0.0 154.0

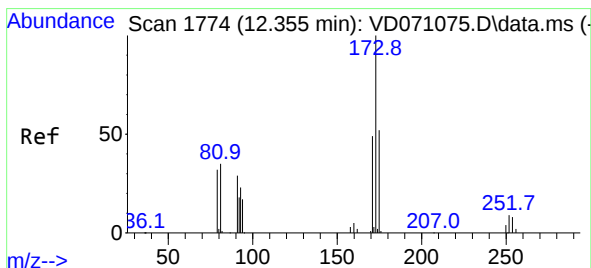
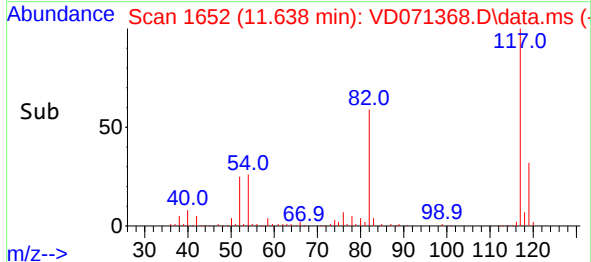
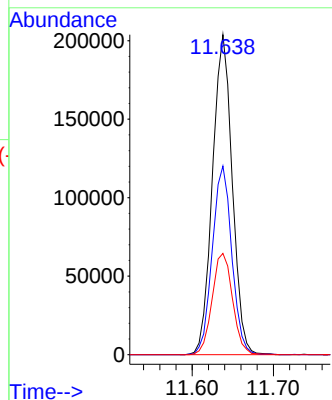
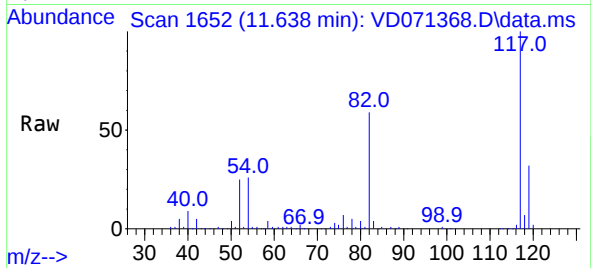




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 117
Delta R.T. -0.000 min
Lab File: VD071368.D
Acq: 16 Dec 2021 15:39

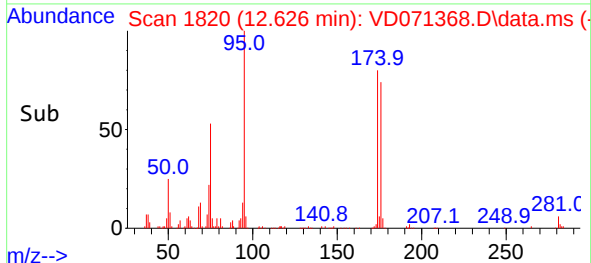
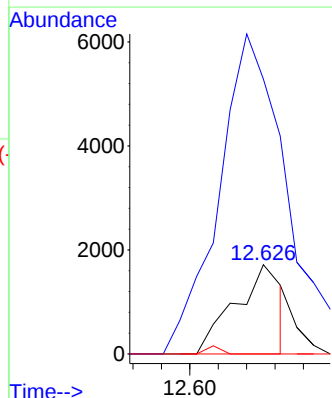
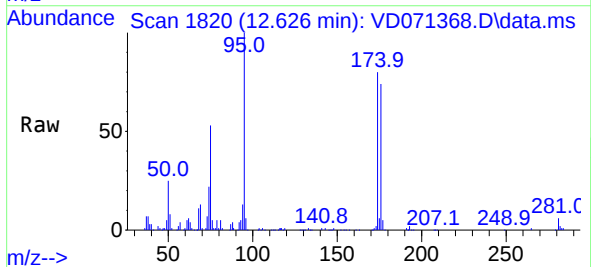
Instrument :
MSVOA_D
ClientSampleId :

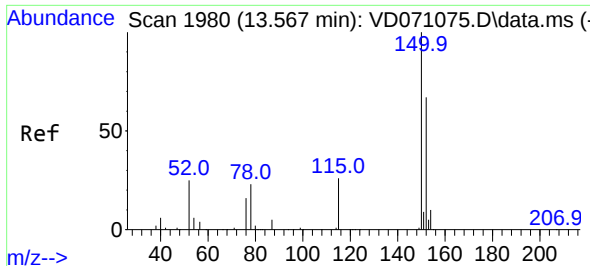
Tgt Ion:117 Resp: 345075
Ion Ratio Lower Upper
117 100
82 59.0 44.7 67.1
119 31.6 26.2 39.4



#71
Bromoform
Concen: 1.615 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. 0.271 min
Lab File: VD071368.D
Acq: 16 Dec 2021 15:39

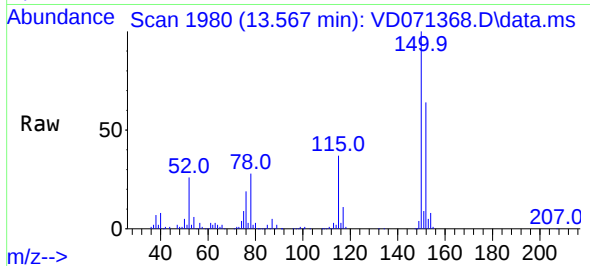
Tgt Ion:173 Resp: 1956
Ion Ratio Lower Upper
173 100
175 444.1 24.1 72.2#
254 2.9 0.1 0.1#



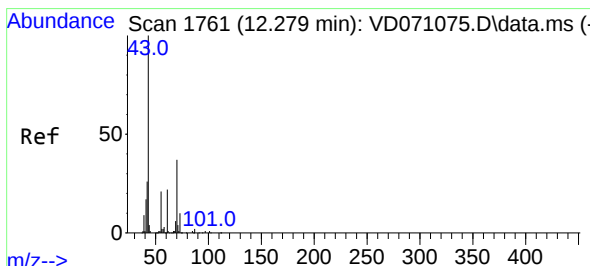
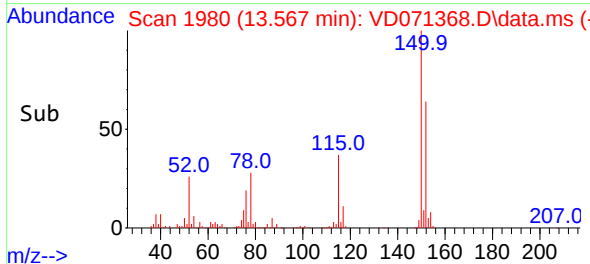
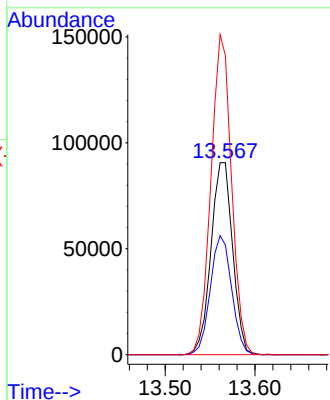


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.567 min Scan# 1980
Delta R.T. 0.000 min
Lab File: VD071368.D
Acq: 16 Dec 2021 15:39

Instrument :
MSVOA_D
ClientSampleId :

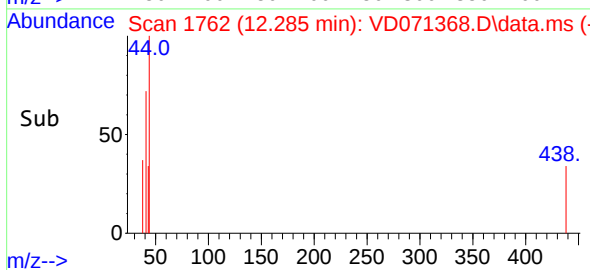
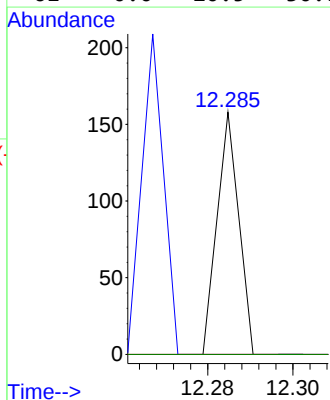
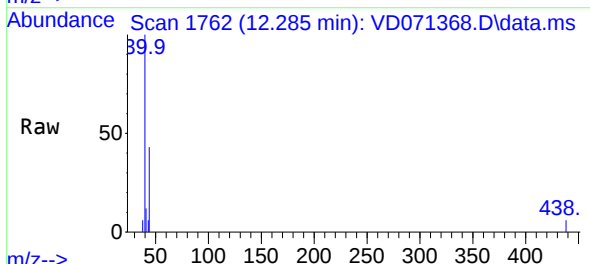


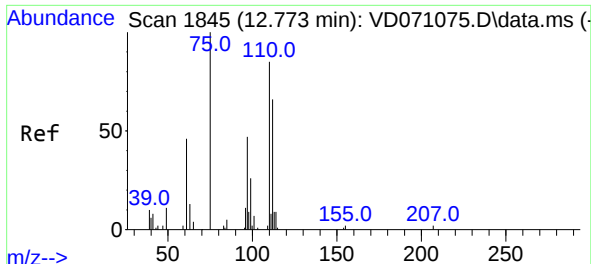
Tgt Ion:152 Resp: 152110
Ion Ratio Lower Upper
152 100
115 61.0 29.8 89.3
150 157.9 0.0 349.2



#74
N-ethyl acetate
Concen: 5.718 ug/l
RT: 12.285 min Scan# 1762
Delta R.T. 0.006 min
Lab File: VD071368.D
Acq: 16 Dec 2021 15:39

Tgt Ion: 43 Resp: 56
Ion Ratio Lower Upper
43 100
70 132.1 36.6 55.0#
55 0.0 22.5 33.7#
61 0.0 20.5 30.7#

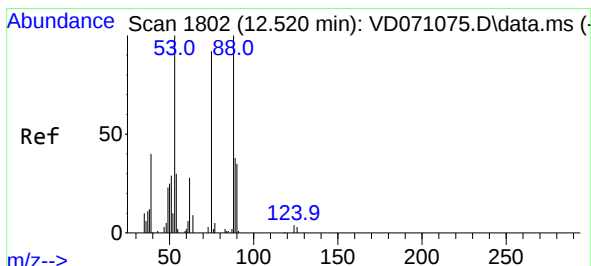
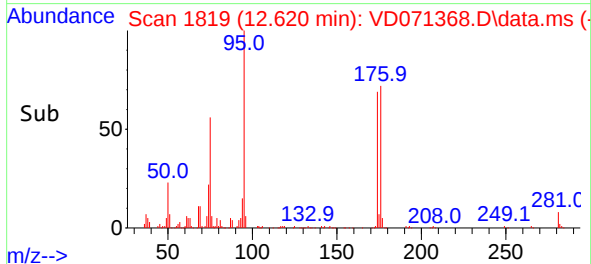
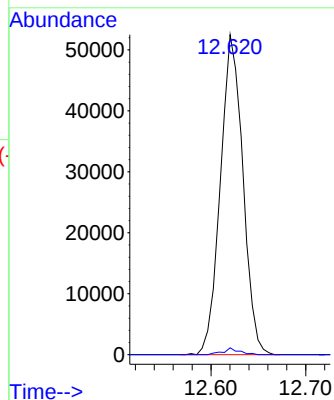
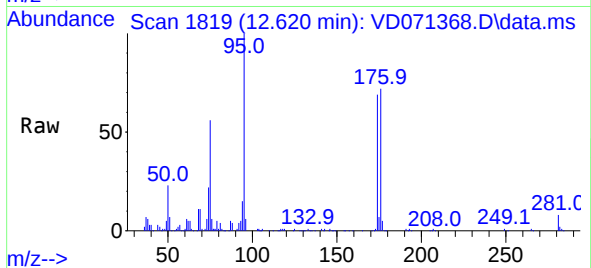




#76
1,2,3-Trichloropropane
Concen: 59.804 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.153 min
Lab File: VD071368.D
Acq: 16 Dec 2021 15:39

Instrument :
MSVOA_D
ClientSampleId :

Tgt Ion: 75 Resp: 86670
Ion Ratio Lower Upper
75 100
77 1.5 158.4 475.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 129.499 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.100 min
Lab File: VD071368.D
Acq: 16 Dec 2021 15:39

Tgt Ion: 75 Resp: 86670
Ion Ratio Lower Upper
75 100
53 0.0 62.6 94.0#
89 0.3 34.5 51.7#

