

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD120921\
 Data File : VD071227.D
 Acq On : 09 Dec 2021 14:44
 Operator : VA/SY
 Sample : M4965-22
 Misc : 5.04G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 10 06:44:47 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)

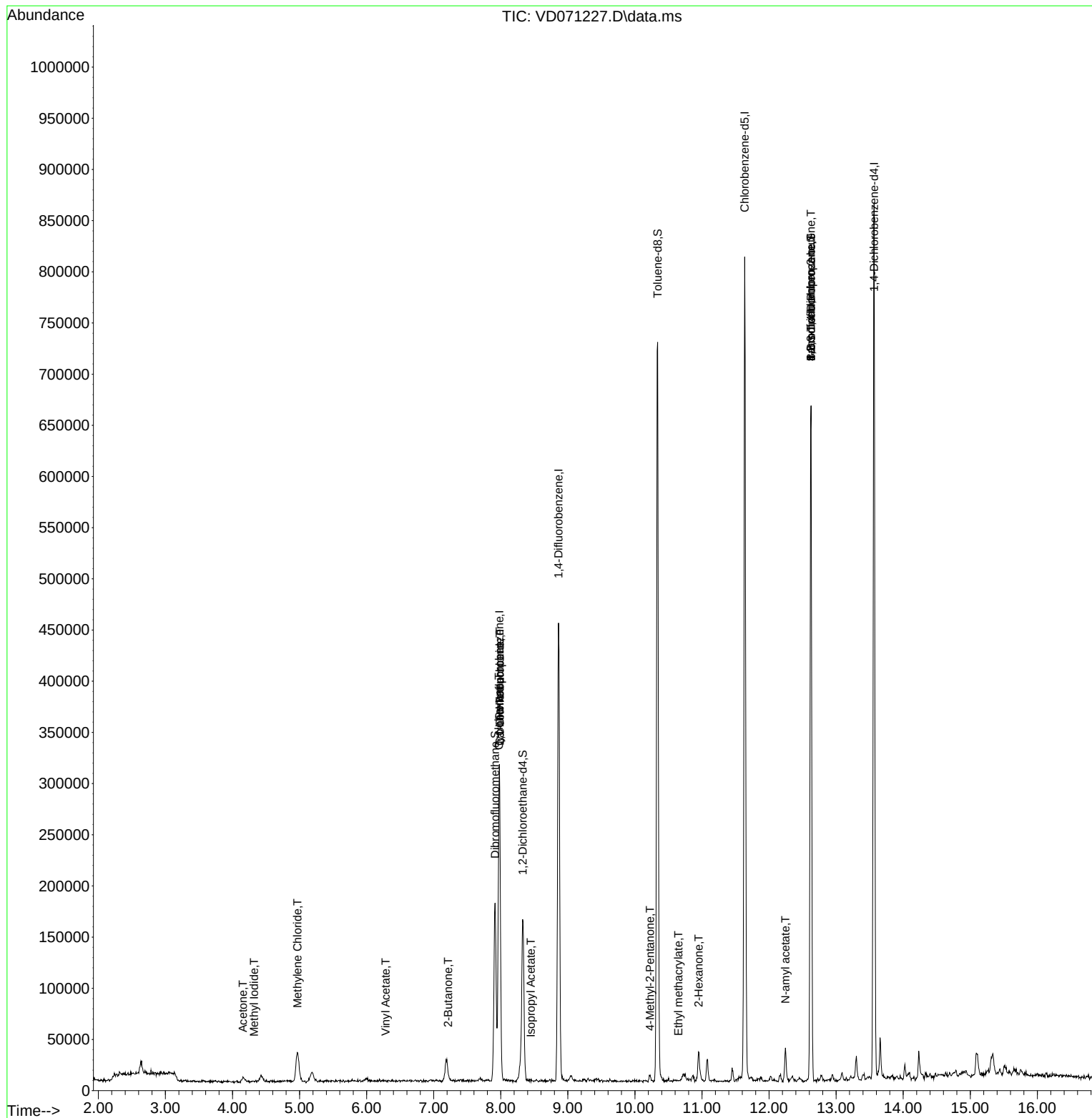
Internal Standards						
1) Pentafluorobenzene	7.979	168	215042	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	368443	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	413589	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	206008	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	125221	49.627	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	99.260%
35) Dibromofluoromethane	7.914	113	121458	51.768	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	103.540%
50) Toluene-d8	10.338	98	480105	53.772	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	=	107.540%
62) 4-Bromofluorobenzene	12.626	95	200166	64.675	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	=	129.340%
Target Compounds						
					Qvalue	
10) Methyl Iodide	4.320	142	271	4.659	ug/l #	73
11) Tert butyl alcohol	5.191	59	8830	Below Cal	#	71
16) Acetone	4.156	43	8377	41.759	ug/l #	82
20) Methylene Chloride	4.967	84	20540	4.245	ug/l	93
23) Vinyl Acetate	6.285	43	63	27.232	ug/l #	72
25) 2-Butanone	7.214	43	784	29.257	ug/l #	45
31) Cyclohexane	7.973	56	6650	1.549	ug/l #	27
36) 1,1-Dichloropropene	7.985	75	19339	5.616	ug/l #	50
38) Carbon Tetrachloride	7.985	117	23260	6.852	ug/l #	16
41) Methacrylonitrile	7.514	41	72	Below Cal	#	1
43) Isopropyl Acetate	8.450	43	66	5.241	ug/l #	47
51) 4-Methyl-2-Pentanone	10.226	43	4408	32.958	ug/l #	87
56) Ethyl methacrylate	10.649	69	66	5.994	ug/l #	1
59) 2-Hexanone	10.949	43	28028	53.683	ug/l #	22
71) Bromoform	12.626	173	1939	1.336	ug/l #	1
74) N-amyl acetate	12.243	43	20517	10.152	ug/l #	45
76) 1,2,3-Trichloropropane	12.626	75	115204	58.695	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.626	75	115204	127.205	ug/l #	18

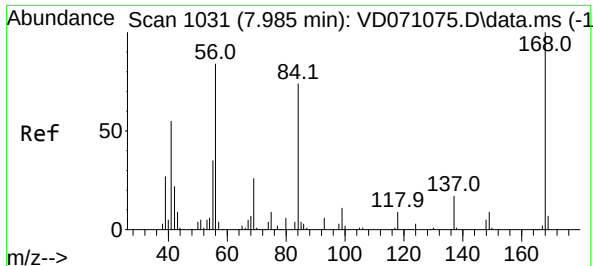
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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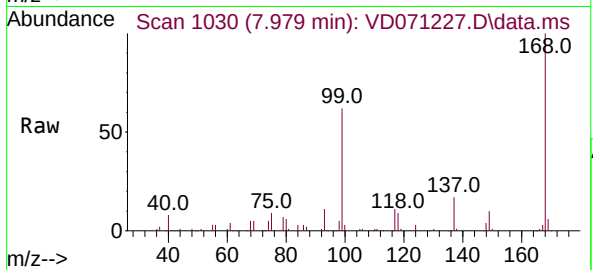
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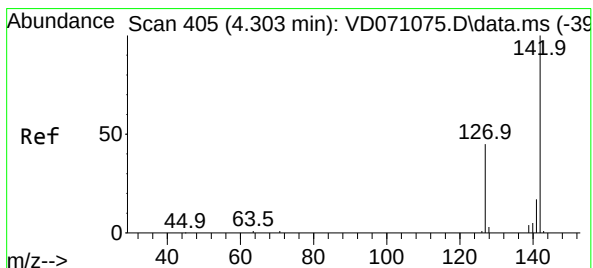
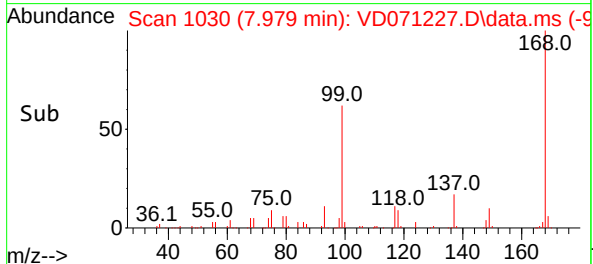
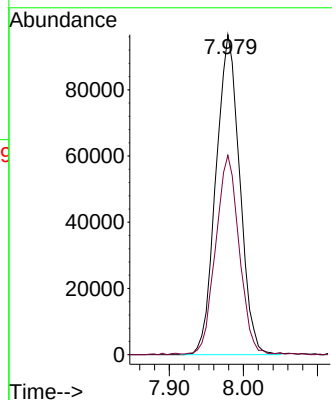


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.006 min
Lab File: VD071227.D
Acq: 09 Dec 2021 14:44

Instrument :
MSVOA_D
ClientSampleId :

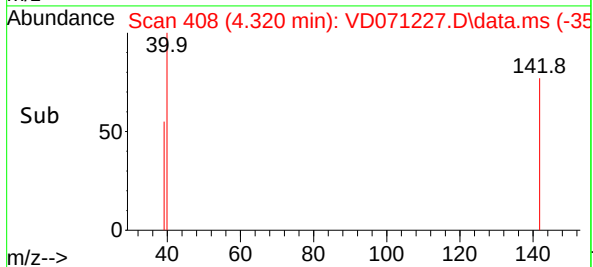
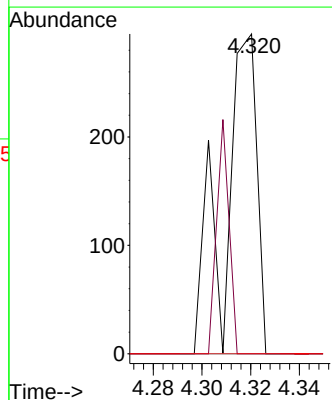
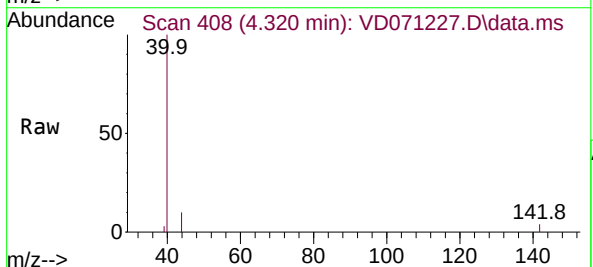


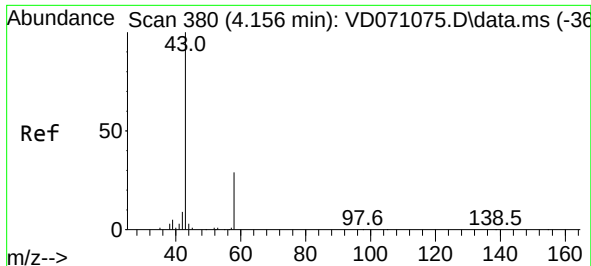
Tgt Ion:168 Resp: 215042
Ion Ratio Lower Upper
168 100
99 62.1 46.6 69.8



#10
Methyl Iodide
Concen: 4.659 ug/l
RT: 4.320 min Scan# 408
Delta R.T. 0.017 min
Lab File: VD071227.D
Acq: 09 Dec 2021 14:44

Tgt Ion:142 Resp: 271
Ion Ratio Lower Upper
142 100
127 28.0 35.0 52.4#
141 0.0 12.0 18.0#

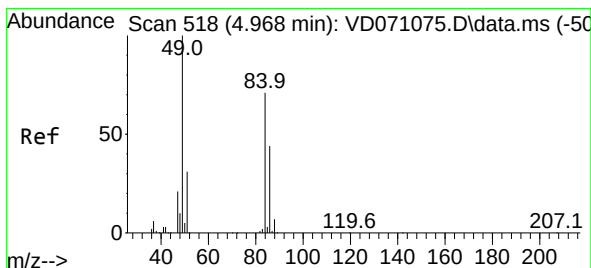
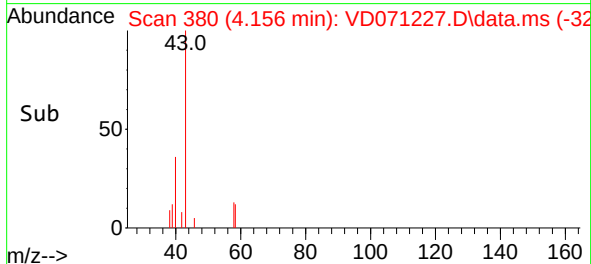
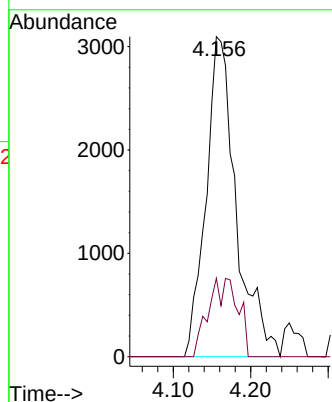
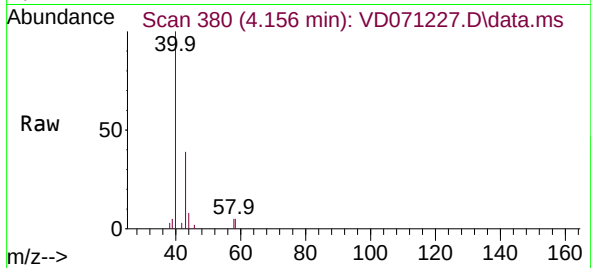




#16
Acetone
Concen: 41.759 ug/l
RT: 4.156 min Scan# 380
Delta R.T. -0.000 min
Lab File: VD071227.D
Acq: 09 Dec 2021 14:44

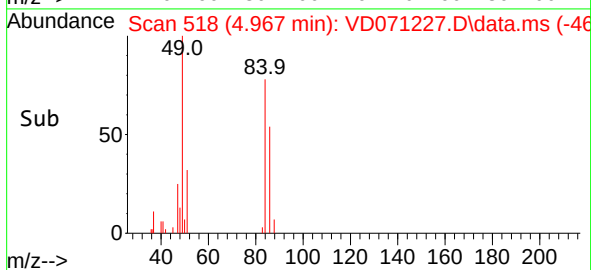
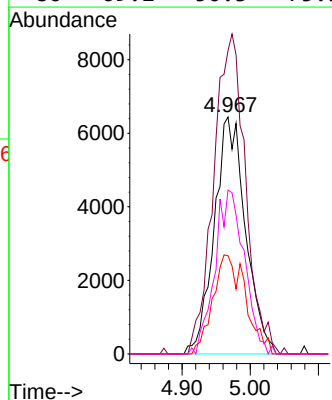
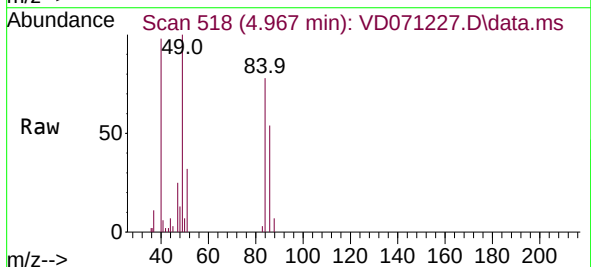
Instrument :
MSVOA_D
ClientSampleId :

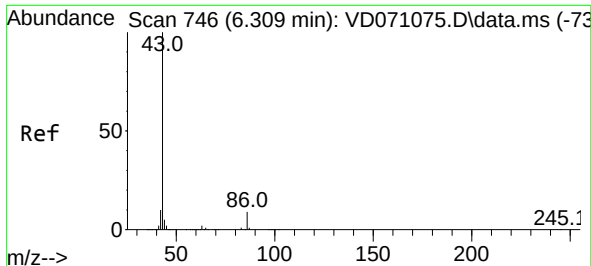
Tgt Ion: 43 Resp: 8377
Ion Ratio Lower Upper
43 100
58 24.5 27.8 41.8#



#20
Methylene Chloride
Concen: 4.245 ug/l
RT: 4.967 min Scan# 518
Delta R.T. -0.001 min
Lab File: VD071227.D
Acq: 09 Dec 2021 14:44

Tgt Ion: 84 Resp: 20540
Ion Ratio Lower Upper
84 100
49 128.1 95.8 143.6
51 41.4 30.9 46.3
86 69.2 50.3 75.5

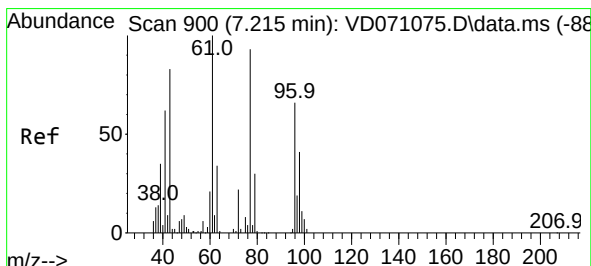
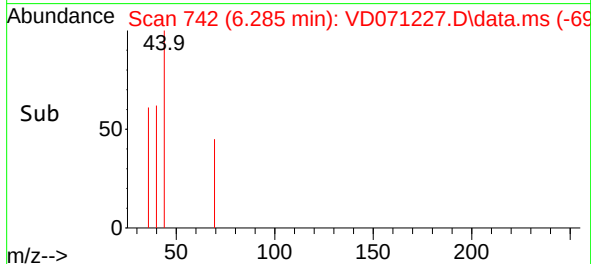
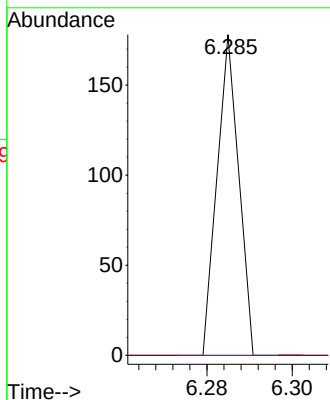
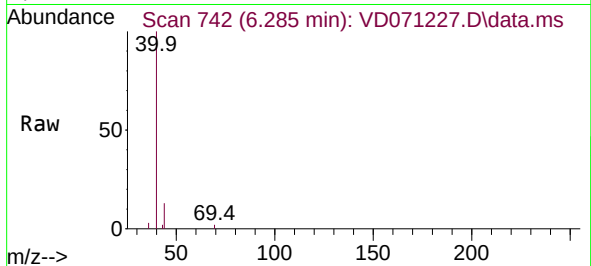




#23
 Vinyl Acetate
 Concen: 27.232 ug/l
 RT: 6.285 min Scan# 746
 Delta R.T. -0.024 min
 Lab File: VD071227.D
 Acq: 09 Dec 2021 14:44

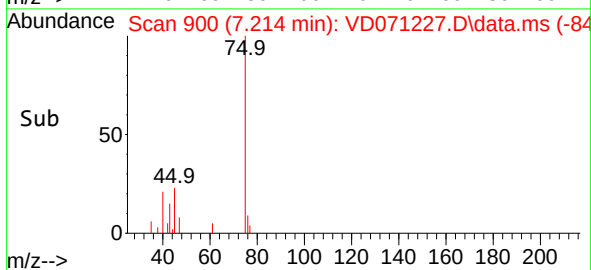
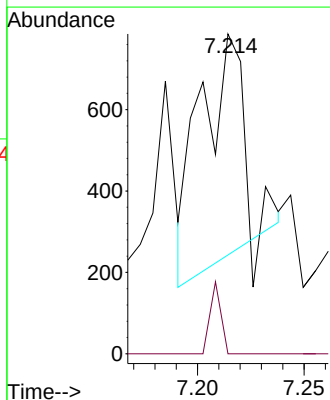
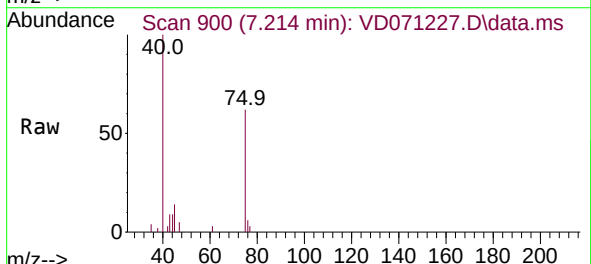
Instrument :
 MSVOA_D
 ClientSampleId :

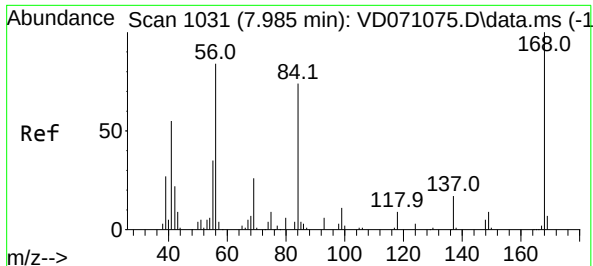
Tgt Ion: 43 Resp: 63
 Ion Ratio Lower Upper
 43 100
 86 0.0 8.2 12.4#



#25
 2-Butanone
 Concen: 29.257 ug/l
 RT: 7.214 min Scan# 900
 Delta R.T. -0.001 min
 Lab File: VD071227.D
 Acq: 09 Dec 2021 14:44

Tgt Ion: 43 Resp: 784
 Ion Ratio Lower Upper
 43 100
 72 0.0 23.8 35.6#





#31

Cyclohexane

Concen: 1.549 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.012 min

Lab File: VD071227.D

Acq: 09 Dec 2021 14:44

Instrument :

MSVOA_D

ClientSampleId :

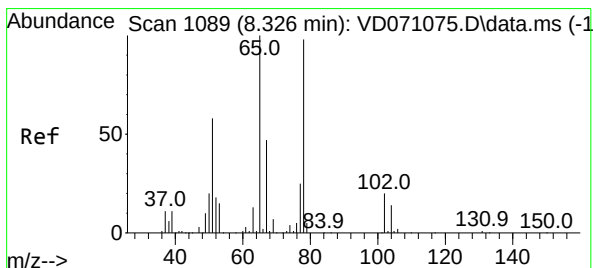
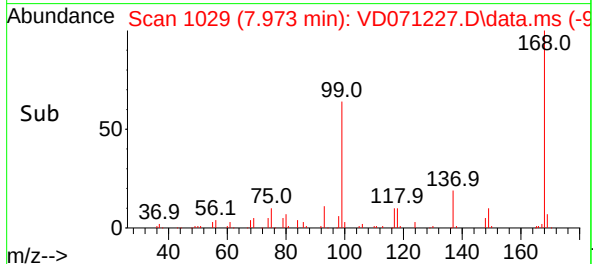
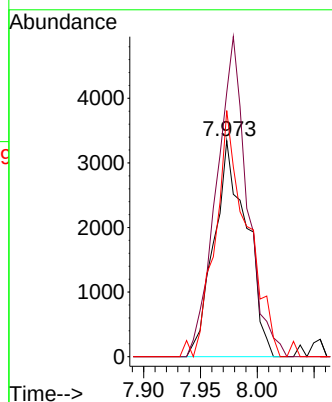
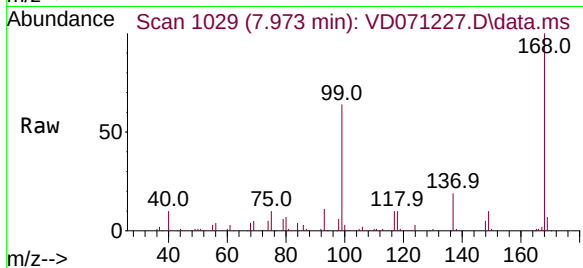
Tgt Ion: 56 Resp: 6650

Ion Ratio Lower Upper

56 100

69 122.4 25.9 38.9#

84 113.9 64.3 96.5#



#33

1,2-Dichloroethane-d4

Concen: 49.627 ug/l

RT: 8.326 min Scan# 1089

Delta R.T. 0.000 min

Lab File: VD071227.D

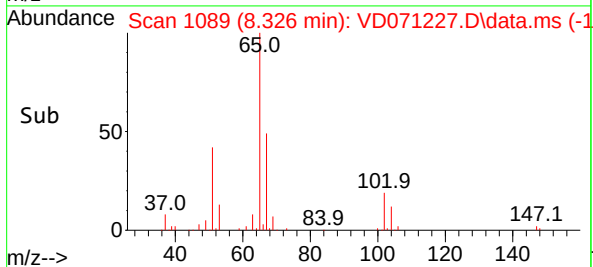
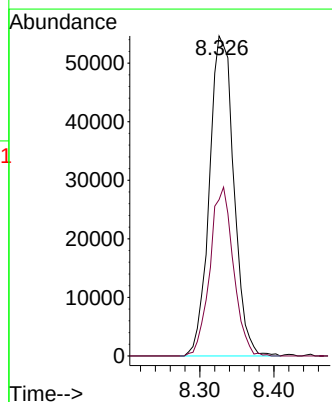
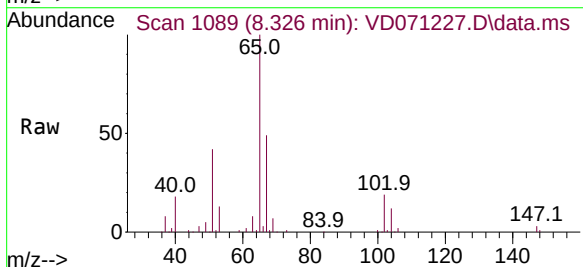
Acq: 09 Dec 2021 14:44

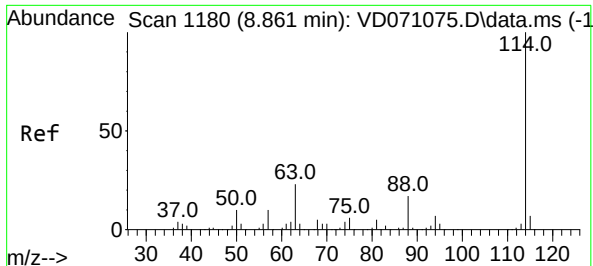
Tgt Ion: 65 Resp: 125221

Ion Ratio Lower Upper

65 100

67 50.6 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: VD071227.D

Acq: 09 Dec 2021 14:44

Instrument :

MSVOA_D

ClientSampleId :

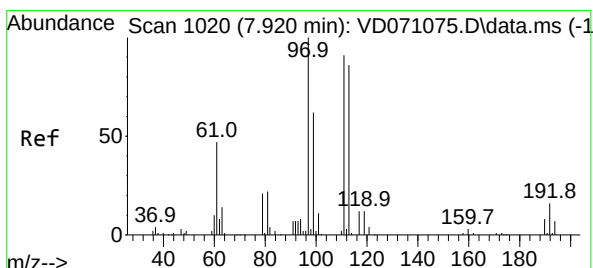
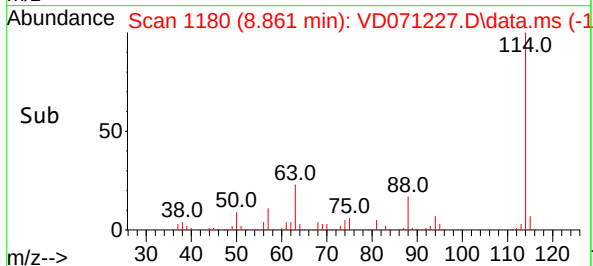
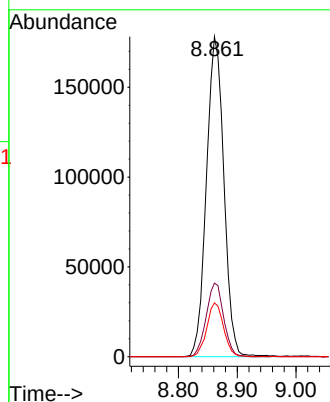
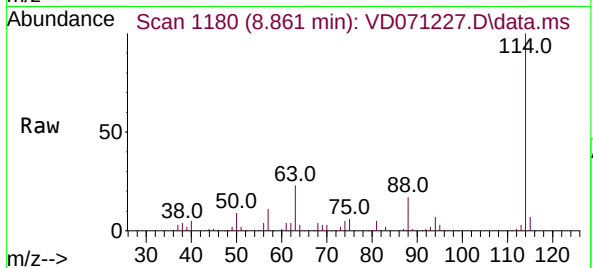
Tgt Ion:114 Resp: 368443

Ion Ratio Lower Upper

114 100

63 23.0 0.0 41.8

88 16.8 0.0 32.8



#35

Dibromofluoromethane

Concen: 51.768 ug/l

RT: 7.914 min Scan# 1019

Delta R.T. -0.006 min

Lab File: VD071227.D

Acq: 09 Dec 2021 14:44

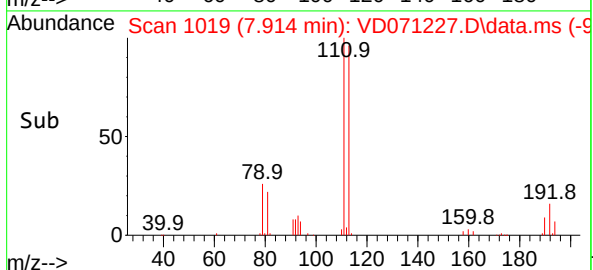
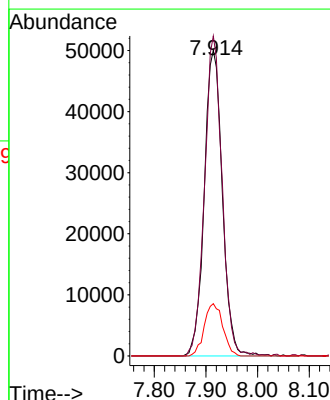
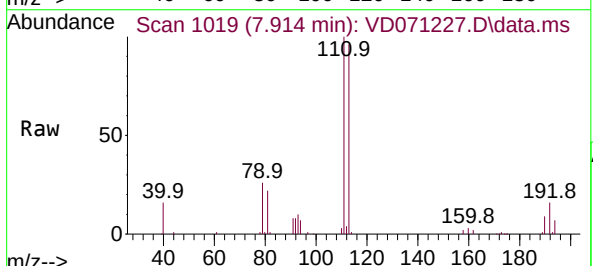
Tgt Ion:113 Resp: 121458

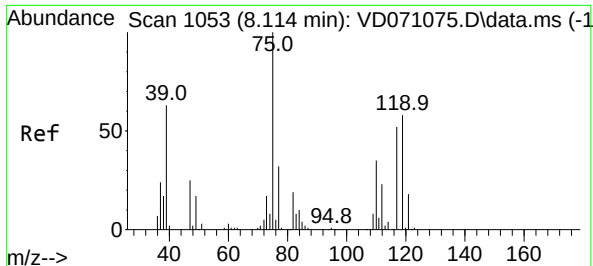
Ion Ratio Lower Upper

113 100

111 101.5 82.0 123.0

192 17.6 15.2 22.8





#36

1,1-Dichloropropene

Concen: 5.616 ug/l

RT: 7.985 min Scan# 1031

Delta R.T. -0.129 min

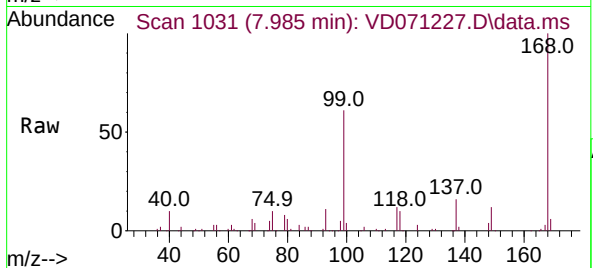
Lab File: VD071227.D

Acq: 09 Dec 2021 14:44

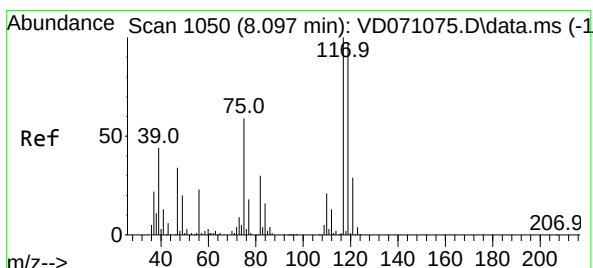
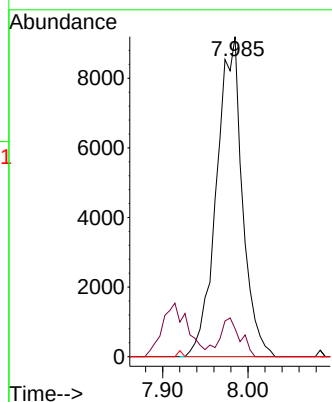
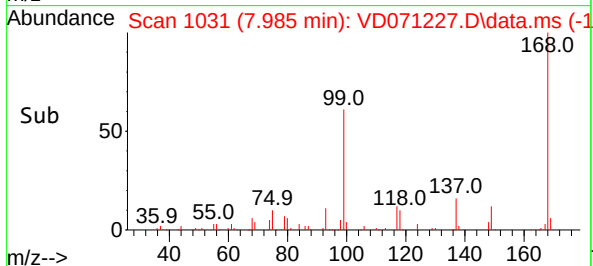
Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion: 75	Resp: 19339
Ion Ratio	Lower Upper
75	100
110	9.7 17.8 53.4#
77	0.0 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 6.852 ug/l

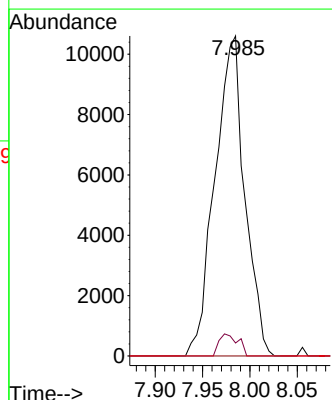
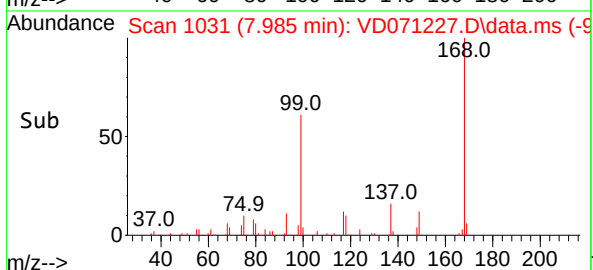
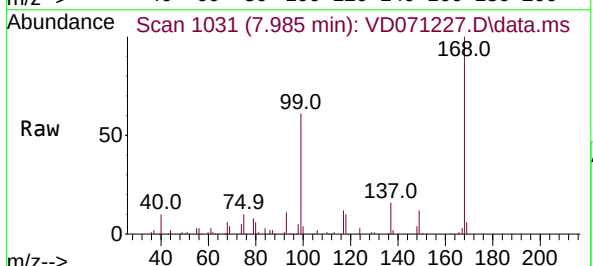
RT: 7.985 min Scan# 1031

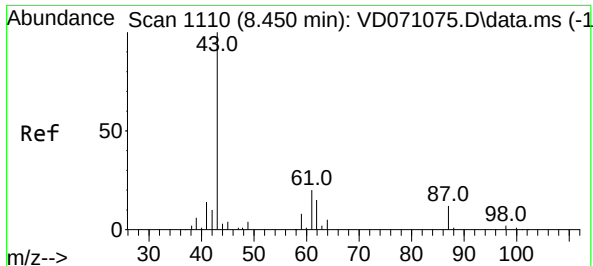
Delta R.T. -0.112 min

Lab File: VD071227.D

Acq: 09 Dec 2021 14:44

Tgt Ion: 117	Resp: 23260
Ion Ratio	Lower Upper
117	100
119	4.0 75.8 113.6#
121	0.0 23.6 35.4#





#43

Isopropyl Acetate

Concen: 5.241 ug/l

RT: 8.450 min Scan# 1110

Delta R.T. -0.000 min

Lab File: VD071227.D

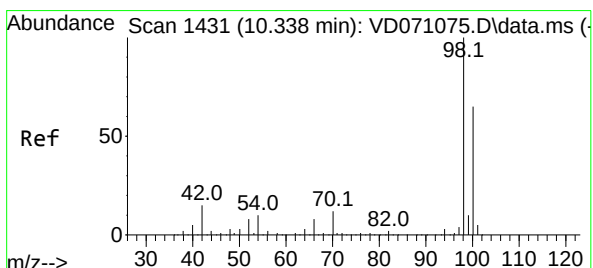
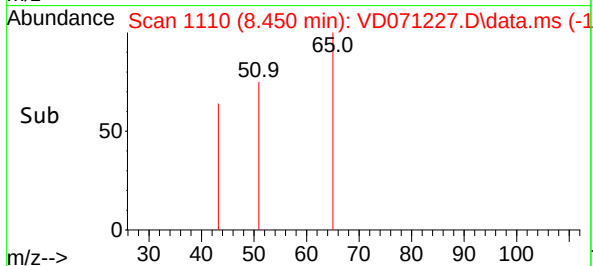
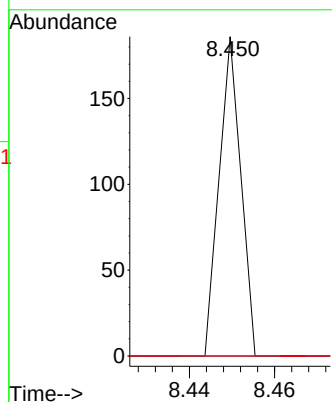
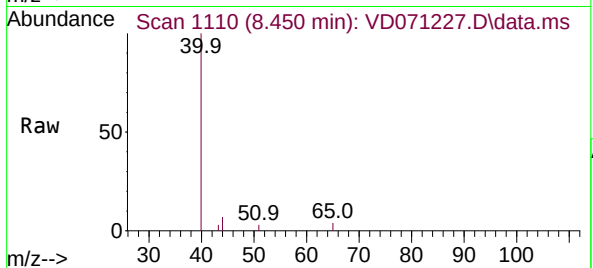
Acq: 09 Dec 2021 14:44

Instrument :

MSVOA_D

ClientSampleId :

Tgt Ion: 43	Resp: 66
Ion Ratio	Lower Upper
43 100	
61 0.0	28.2 42.4#
87 0.0	10.7 16.1#



#50

Toluene-d8

Concen: 53.772 ug/l

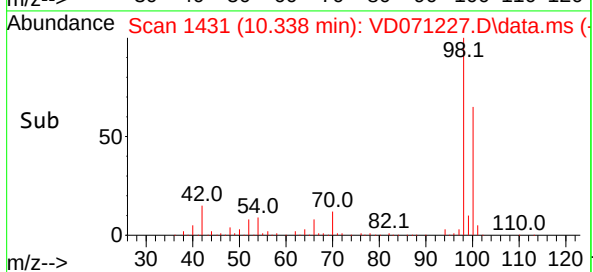
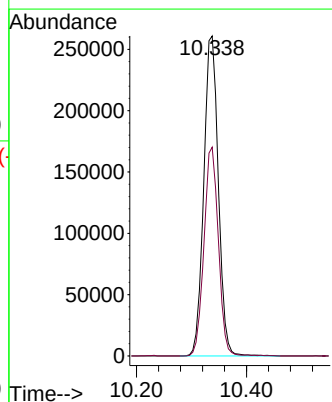
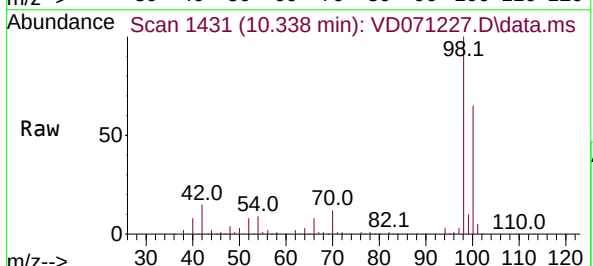
RT: 10.338 min Scan# 1431

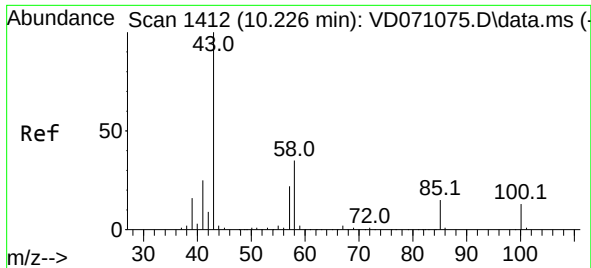
Delta R.T. -0.000 min

Lab File: VD071227.D

Acq: 09 Dec 2021 14:44

Tgt Ion: 98	Resp: 480105
Ion Ratio	Lower Upper
98 100	
100 64.4	51.8 77.6

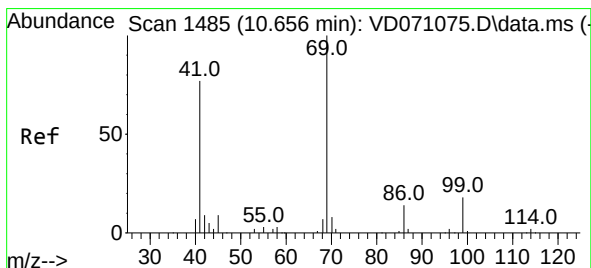
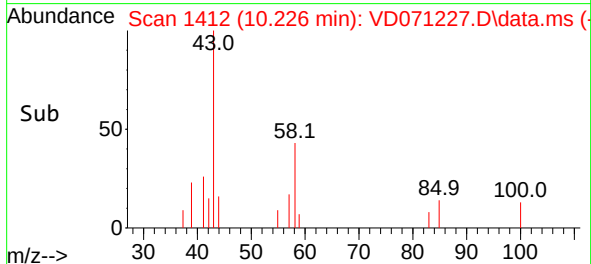
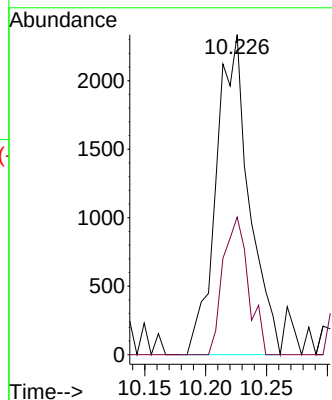
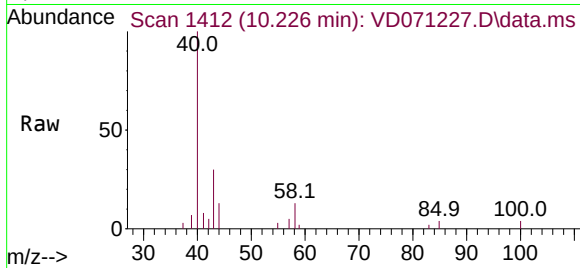




#51
4-Methyl-2-Pentanone
Concen: 32.958 ug/l
RT: 10.226 min Scan# 1412
Delta R.T. -0.000 min
Lab File: VD071227.D
Acq: 09 Dec 2021 14:44

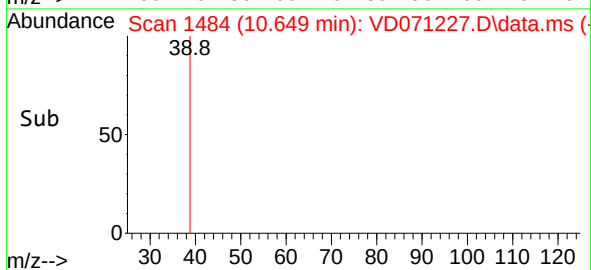
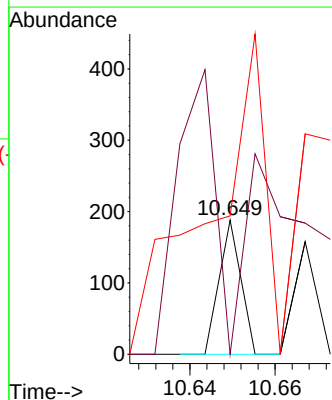
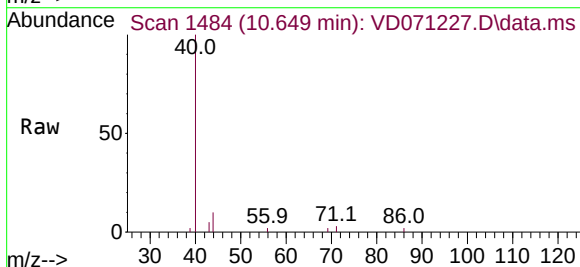
Instrument :
MSVOA_D
ClientSampleId :

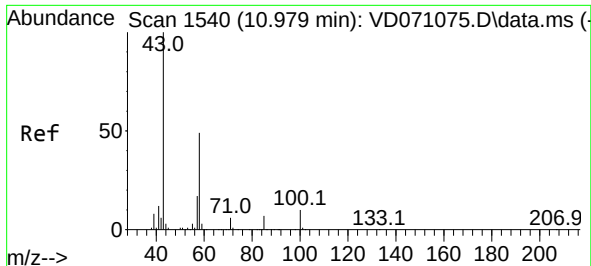
Tgt Ion: 43 Resp: 4408
Ion Ratio Lower Upper
43 100
58 33.0 33.1 49.7#



#56
Ethyl methacrylate
Concen: 5.994 ug/l
RT: 10.649 min Scan# 1484
Delta R.T. -0.007 min
Lab File: VD071227.D
Acq: 09 Dec 2021 14:44

Tgt Ion: 69 Resp: 66
Ion Ratio Lower Upper
69 100
41 437.9 50.2 75.2#
39 616.7 19.8 29.8#

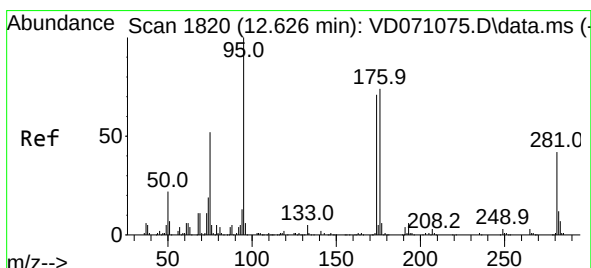
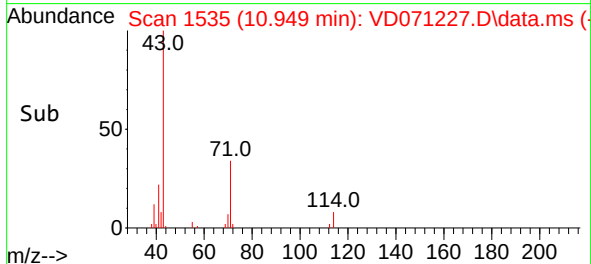
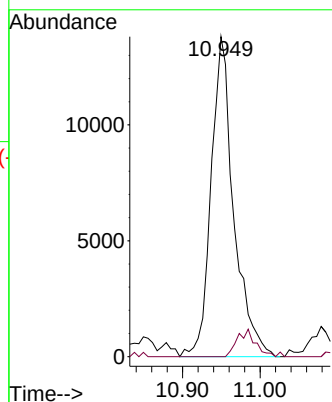
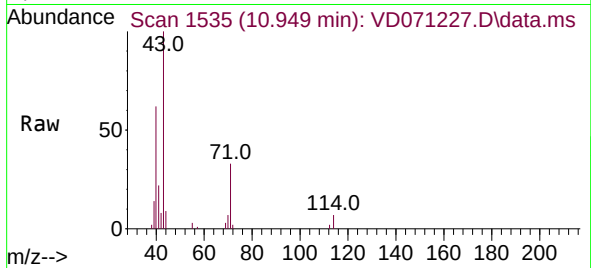




#59
2-Hexanone
Concen: 53.683 ug/l
RT: 10.949 min Scan# 1535
Delta R.T. -0.030 min
Lab File: VD071227.D
Acq: 09 Dec 2021 14:44

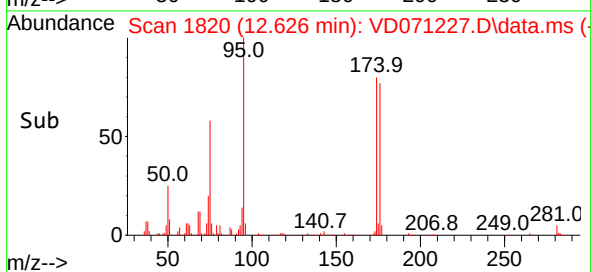
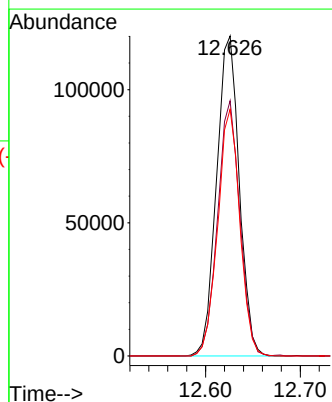
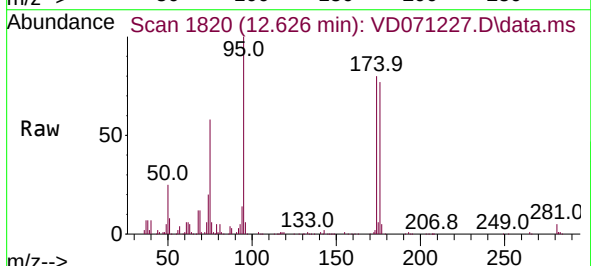
Instrument :
MSVOA_D
ClientSampleId :

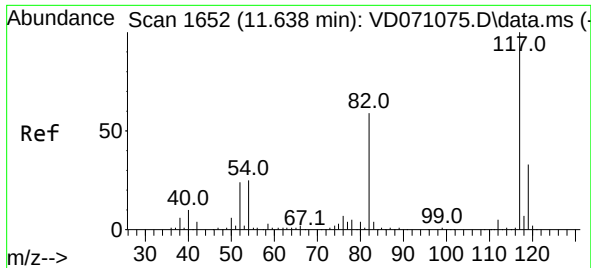
Tgt Ion: 43 Resp: 28028
Ion Ratio Lower Upper
43 100
58 0.0 28.7 86.1#



#62
4-Bromofluorobenzene
Concen: 64.675 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VD071227.D
Acq: 09 Dec 2021 14:44

Tgt Ion: 95 Resp: 200166
Ion Ratio Lower Upper
95 100
174 78.1 0.0 159.4
176 75.0 0.0 154.0

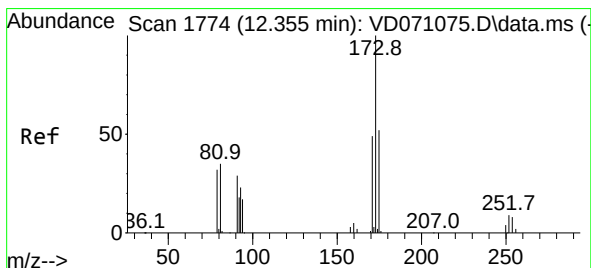
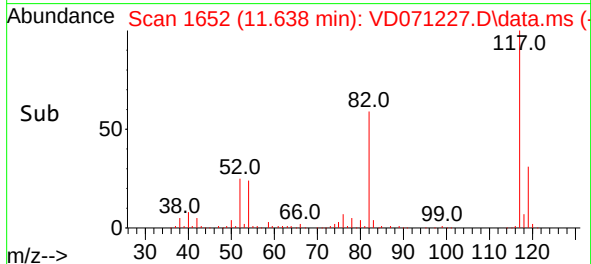
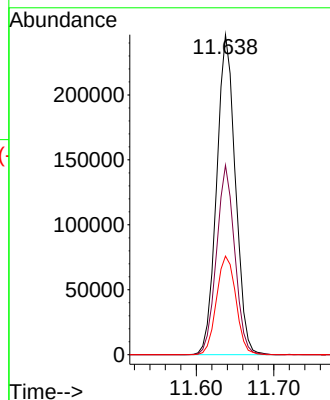
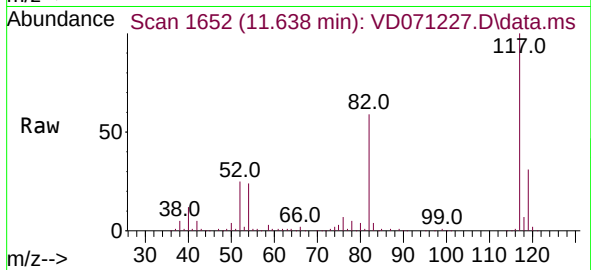




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 117
Delta R.T. -0.000 min
Lab File: VD071227.D
Acq: 09 Dec 2021 14:44

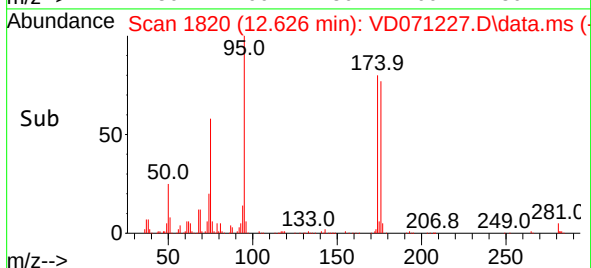
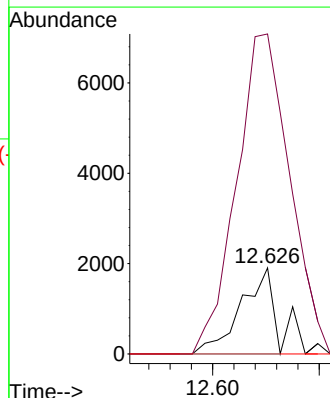
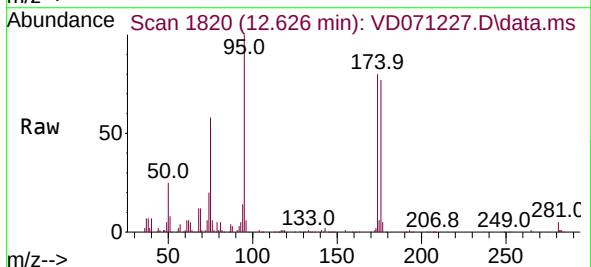
Instrument :
MSVOA_D
ClientSampleId :

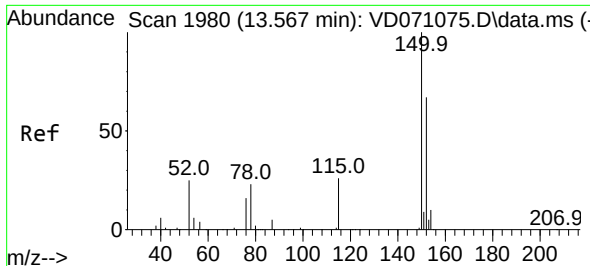
Tgt Ion:117 Resp: 413589
Ion Ratio Lower Upper
117 100
82 59.2 44.7 67.1
119 30.8 26.2 39.4



#71
Bromoform
Concen: 1.336 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. 0.271 min
Lab File: VD071227.D
Acq: 09 Dec 2021 14:44

Tgt Ion:173 Resp: 1939
Ion Ratio Lower Upper
173 100
175 522.1 24.1 72.2#
254 0.0 0.1 0.1#

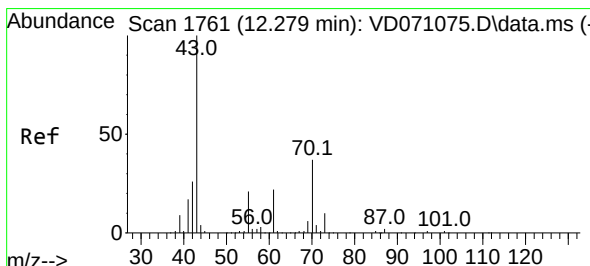
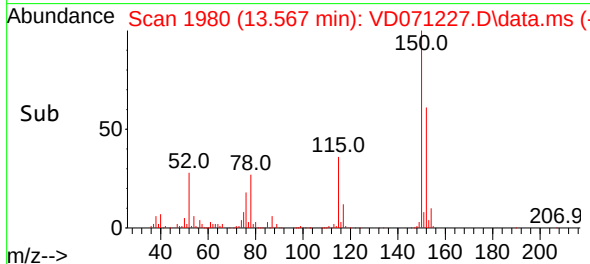
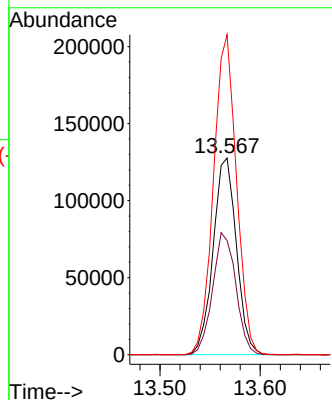
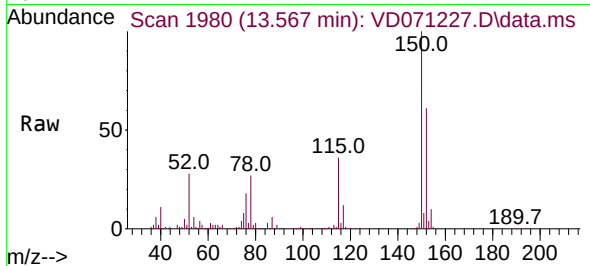




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.567 min Scan# 1980
Delta R.T. -0.000 min
Lab File: VD071227.D
Acq: 09 Dec 2021 14:44

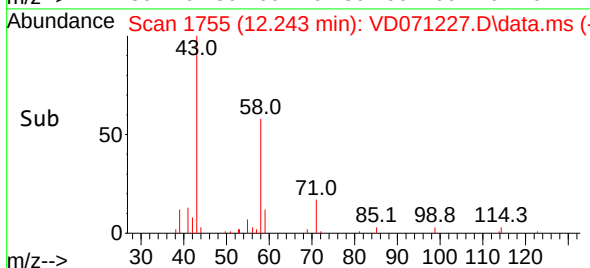
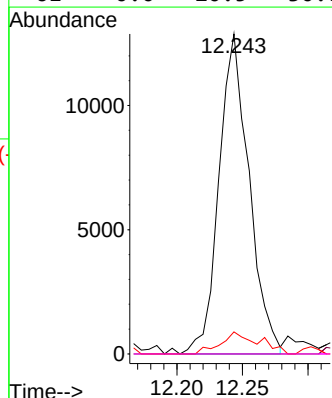
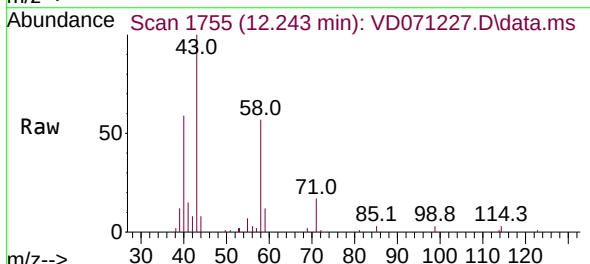
Instrument :
MSVOA_D
ClientSampleId :

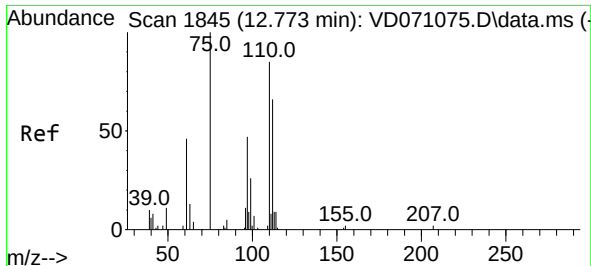
Tgt Ion:152 Resp: 206008
Ion Ratio Lower Upper
152 100
115 61.9 29.8 89.3
150 160.4 0.0 349.2



#74
N-ethyl acetate
Concen: 10.152 ug/l
RT: 12.243 min Scan# 1755
Delta R.T. -0.036 min
Lab File: VD071227.D
Acq: 09 Dec 2021 14:44

Tgt Ion: 43 Resp: 20517
Ion Ratio Lower Upper
43 100
70 0.0 36.6 55.0#
55 8.7 22.5 33.7#
61 0.0 20.5 30.7#

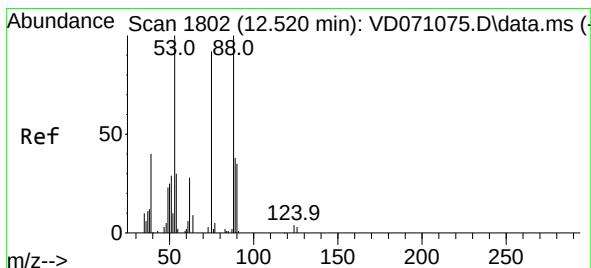
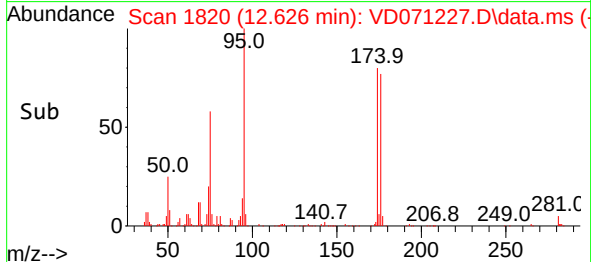
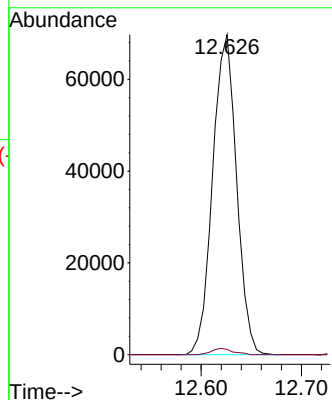
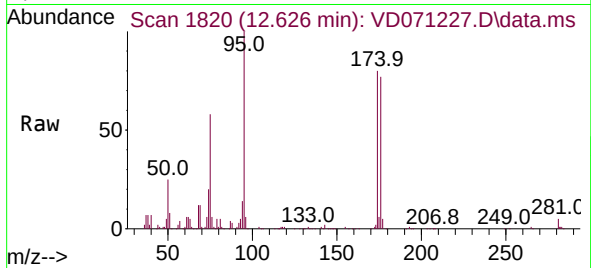




#76
1,2,3-Trichloropropane
Concen: 58.695 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.147 min
Lab File: VD071227.D
Acq: 09 Dec 2021 14:44

Instrument :
MSVOA_D
ClientSampleId :

Tgt Ion: 75 Resp: 115204
Ion Ratio Lower Upper
75 100
77 1.8 158.4 475.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 127.205 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. 0.106 min
Lab File: VD071227.D
Acq: 09 Dec 2021 14:44

Tgt Ion: 75 Resp: 115204
Ion Ratio Lower Upper
75 100
53 0.1 62.6 94.0#
89 0.0 34.5 51.7#

