

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD120821\
 Data File : VD071204.D
 Acq On : 08 Dec 2021 14:35
 Operator : VA/SY
 Sample : M4959-07RE
 Misc : 5.05G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TP-2RE

Quant Time: Dec 09 10:16:09 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

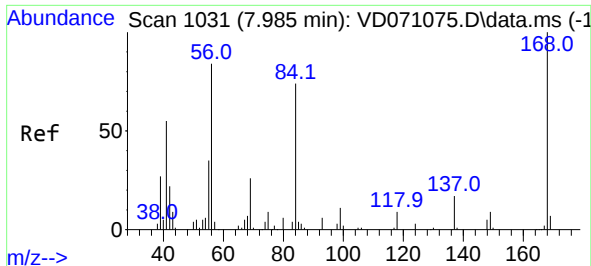
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.979	168	1596	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.873	114	3171	50.000	ug/l	0.01
63) Chlorobenzene-d5	11.638	117	2978	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	1048	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.332	65	1524	81.379	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 162.760%			
35) Dibromofluoromethane	7.920	113	783	38.777	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 77.560%			
50) Toluene-d8	10.338	98	3718	48.384	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 96.760%			
62) 4-Bromofluorobenzene	12.626	95	1296	48.655	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 97.300%			
Target Compounds						Qvalue
3) Chloromethane	2.227	50	76	4.221	ug/l #	42
4) Vinyl Chloride	2.397	62	56	2.788	ug/l #	42
6) Chloroethane	3.068	64	143	10.350	ug/l #	39
7) Trichlorofluoromethane	3.068	101	58	2.131	ug/l #	19
11) Tert butyl alcohol	5.173	59	57	Below Cal	#	71
12) 1,1-Dichloroethene	4.191	96	55	3.712	ug/l #	1
14) Allyl chloride	4.803	41	76	2.701	ug/l #	28
16) Acetone	4.150	43	54	40.318	ug/l #	40
18) Methyl Acetate	4.709	43	55	3.981	ug/l #	51
22) Diisopropyl ether	6.320	45	63	1.117	ug/l #	40
23) Vinyl Acetate	6.262	43	216	33.531	ug/l #	72
25) 2-Butanone	7.220	43	68	38.856	ug/l #	45
27) cis-1,2-Dichloroethene	7.015	96	113	5.989	ug/l #	1
29) Tetrahydrofuran	7.520	42	55	18.495	ug/l #	34
36) 1,1-Dichloropropene	7.938	75	56	1.890	ug/l #	41
37) Ethyl Acetate	7.220	43	68	5.312	ug/l #	66
38) Carbon Tetrachloride	7.973	117	73	2.499	ug/l #	12
41) Methacrylonitrile	7.673	41	131	22.669	ug/l #	34
43) Isopropyl Acetate	8.444	43	61	7.162	ug/l #	47
45) 1,2-Dichloropropane	9.273	63	58	2.740	ug/l #	44
48) Methyl methacrylate	9.356	41	79	6.304	ug/l #	17
51) 4-Methyl-2-Pentanone	10.408	43	57	34.116	ug/l #	34
56) Ethyl methacrylate	10.585	69	55	8.305	ug/l #	1
59) 2-Hexanone	11.173	43	55	38.931	ug/l #	22
61) 1,2-Dibromoethane	11.279	107	64	4.625	ug/l #	3
74) N-amyl acetate	12.279	43	181	13.420	ug/l #	48
76) 1,2,3-Trichloropropane	12.626	75	717	71.809	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.626	75	717	154.335	ug/l #	18
92) 1,2-Dibromo-3-Chloropr...	14.373	75	76	37.345	ug/l #	4

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

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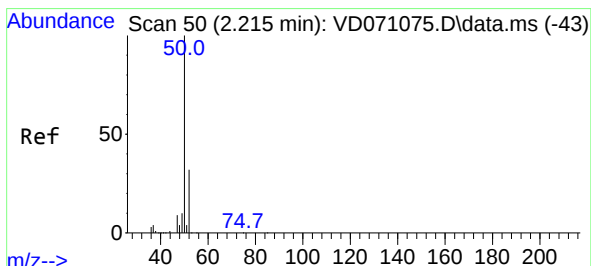
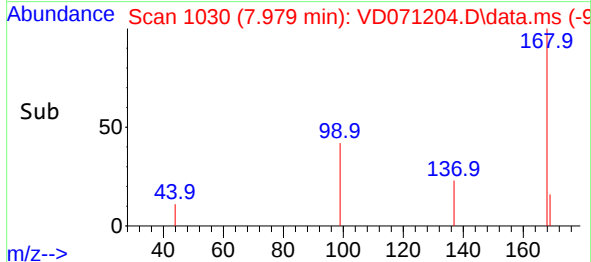
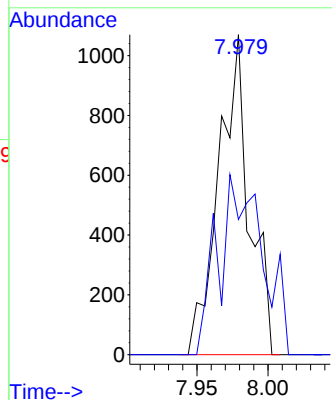
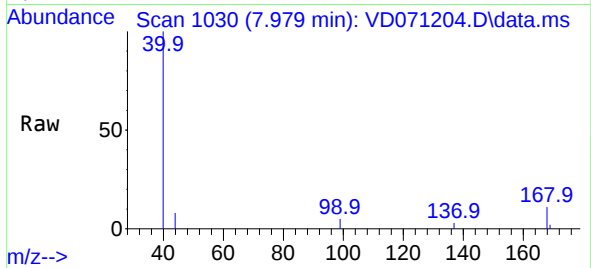




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.979 min Scan# 10
Delta R.T. -0.006 min
Lab File: VD071204.D
Acq: 08 Dec 2021 14:35

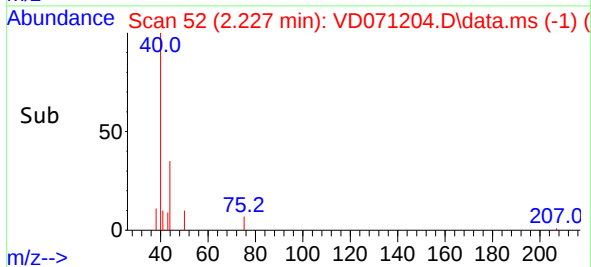
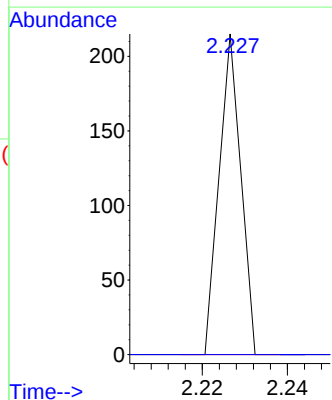
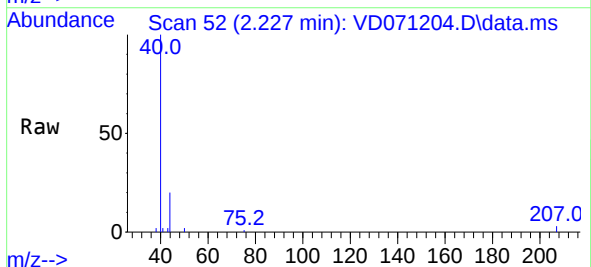
Instrument :
MSVOA_D
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TP-2RE

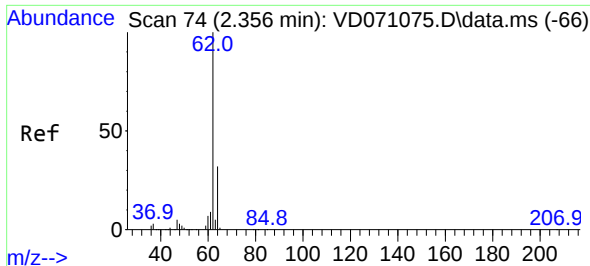
Tgt Ion:168 Resp: 1596
Ion Ratio Lower Upper
168 100
99 42.2 46.6 69.8#



#3
Chloromethane
Concen: 4.221 ug/l
RT: 2.227 min Scan# 52
Delta R.T. 0.012 min
Lab File: VD071204.D
Acq: 08 Dec 2021 14:35

Tgt Ion: 50 Resp: 76
Ion Ratio Lower Upper
50 100
52 0.0 25.8 38.8#

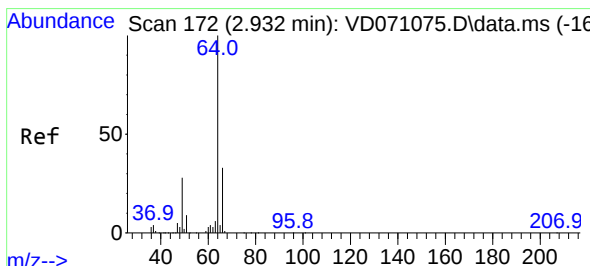
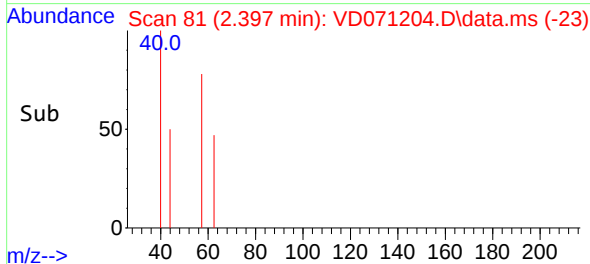
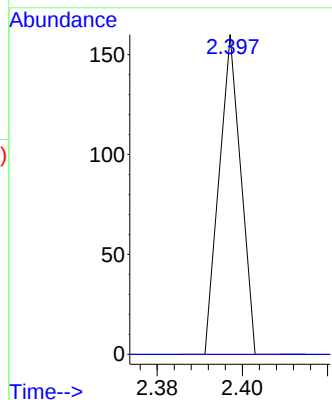
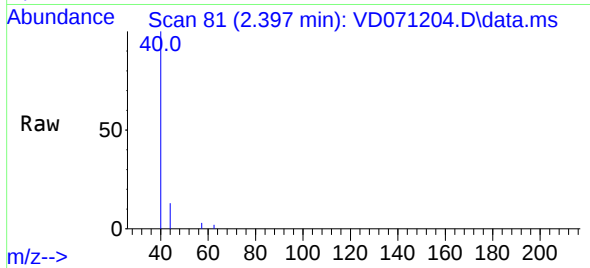




#4
 Vinyl Chloride
 Concen: 2.788 ug/l
 RT: 2.397 min Scan# 81
 Delta R.T. 0.041 min
 Lab File: VD071204.D
 Acq: 08 Dec 2021 14:35

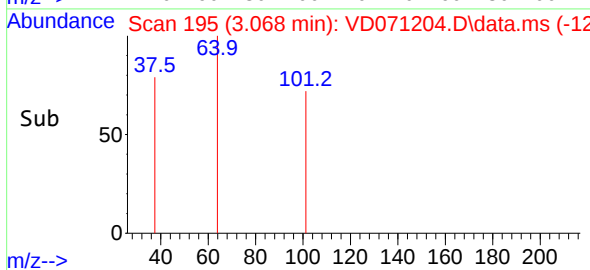
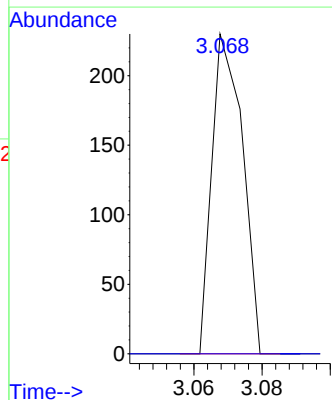
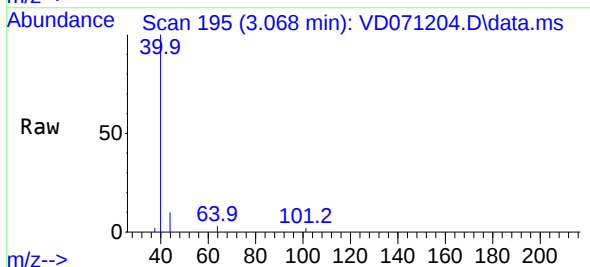
Instrument :
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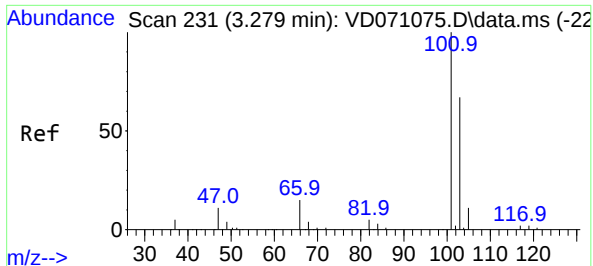
Tgt Ion: 62 Resp: 56
 Ion Ratio Lower Upper
 62 100
 64 0.0 26.0 39.0#



#6
 Chloroethane
 Concen: 10.350 ug/l
 RT: 3.068 min Scan# 195
 Delta R.T. 0.136 min
 Lab File: VD071204.D
 Acq: 08 Dec 2021 14:35

Tgt Ion: 64 Resp: 143
 Ion Ratio Lower Upper
 64 100
 66 0.0 29.0 43.4#

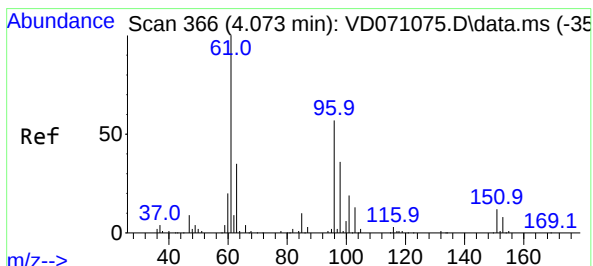
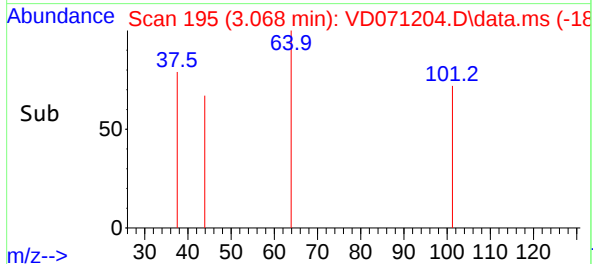
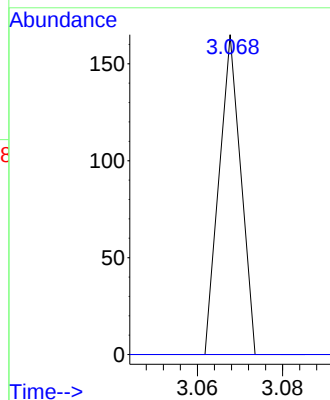
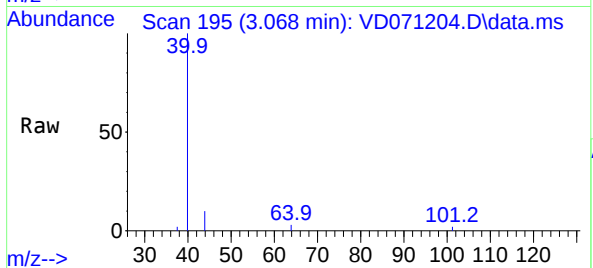




#7
Trichlorofluoromethane
Concen: 2.131 ug/l
RT: 3.068 min Scan# 195
Delta R.T. -0.211 min
Lab File: VD071204.D
Acq: 08 Dec 2021 14:35

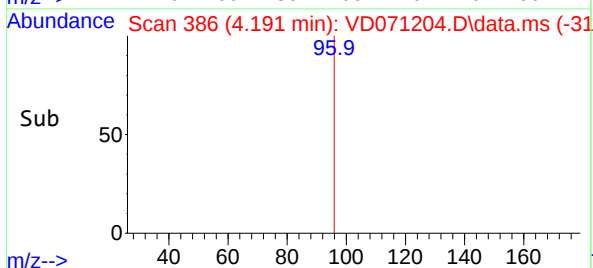
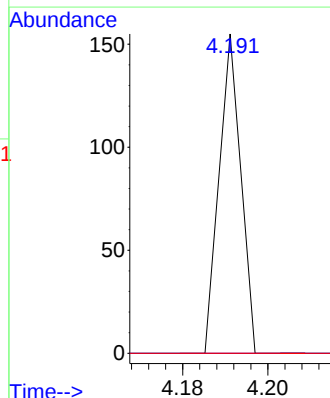
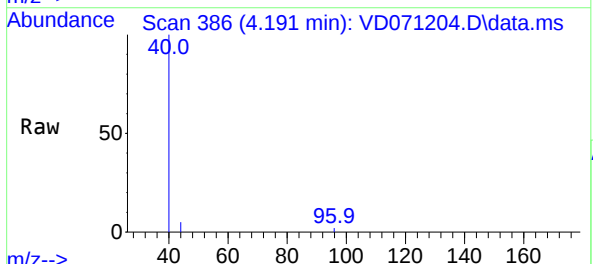
Instrument :
MSVOA_D
ClientSampleId :
TP-2RE

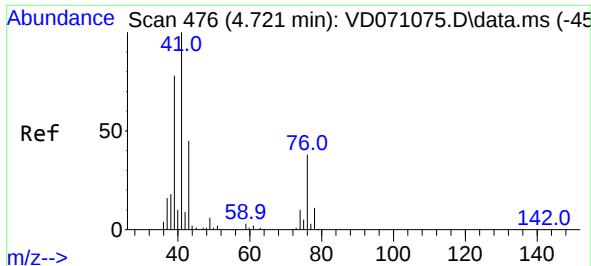
Tgt Ion:101 Resp: 58
Ion Ratio Lower Upper
101 100
103 0.0 49.7 74.5#



#12
1,1-Dichloroethene
Concen: 3.712 ug/l
RT: 4.191 min Scan# 386
Delta R.T. 0.118 min
Lab File: VD071204.D
Acq: 08 Dec 2021 14:35

Tgt Ion: 96 Resp: 55
Ion Ratio Lower Upper
96 100
61 0.0 120.3 180.5#
98 0.0 54.4 81.6#

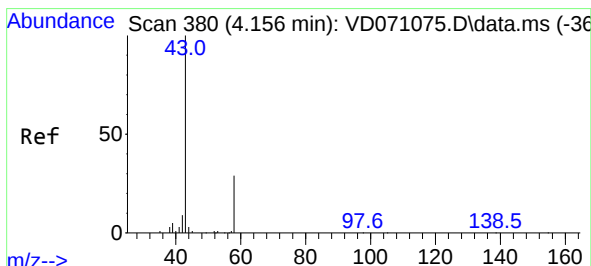
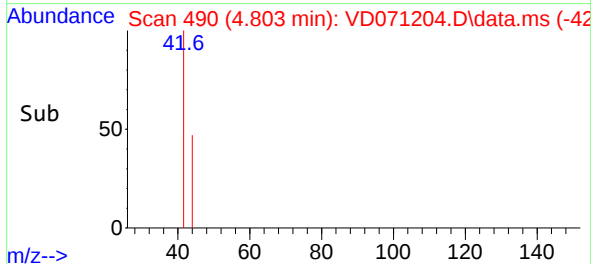
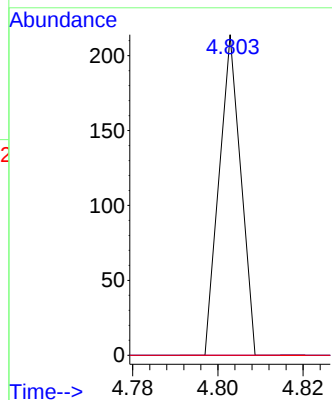
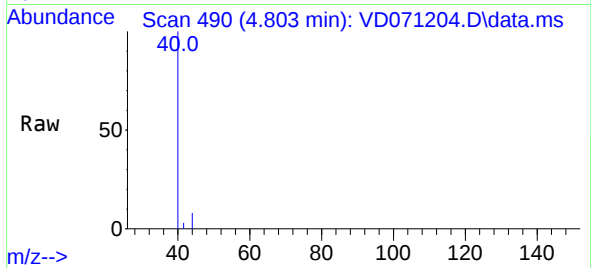




#14
Allyl chloride
Concen: 2.701 ug/l
RT: 4.803 min Scan# 490
Delta R.T. 0.082 min
Lab File: VD071204.D
Acq: 08 Dec 2021 14:35

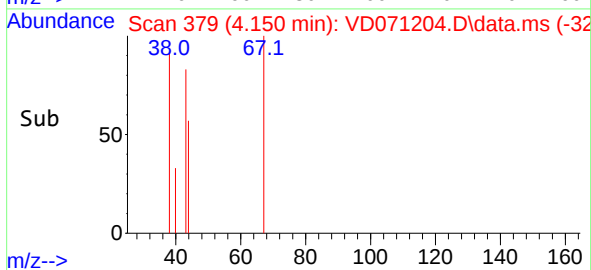
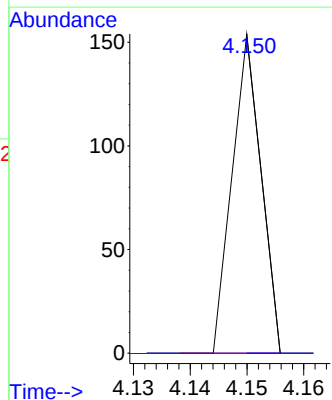
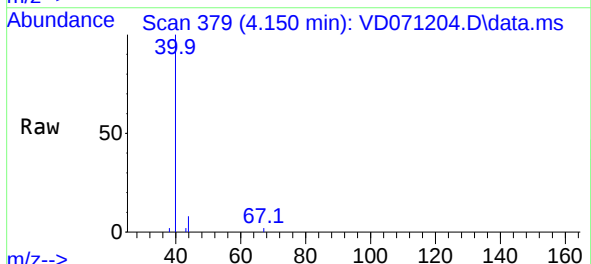
Instrument :
MSVOA_D
ClientSampleId :
TP-2RE

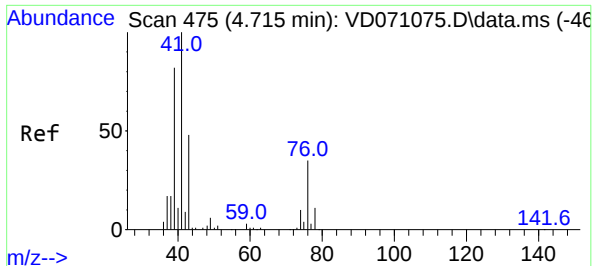
Tgt Ion: 41 Resp: 76
Ion Ratio Lower Upper
41 100
39 0.0 45.6 68.4#
76 0.0 30.2 45.4#



#16
Acetone
Concen: 40.318 ug/l
RT: 4.150 min Scan# 379
Delta R.T. -0.006 min
Lab File: VD071204.D
Acq: 08 Dec 2021 14:35

Tgt Ion: 43 Resp: 54
Ion Ratio Lower Upper
43 100
58 0.0 27.8 41.8#

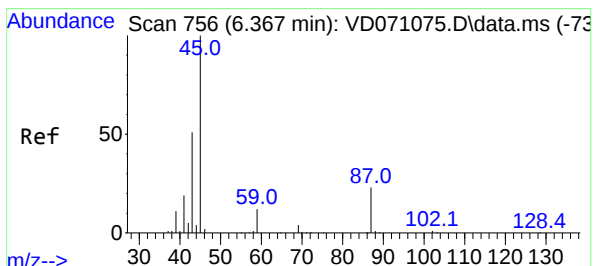
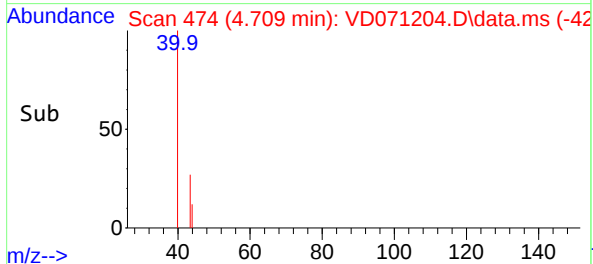
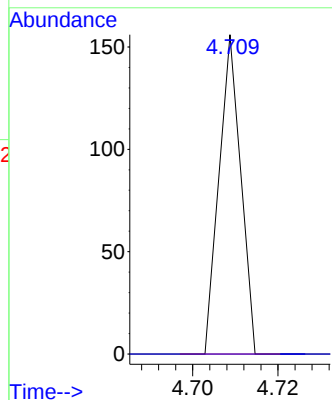
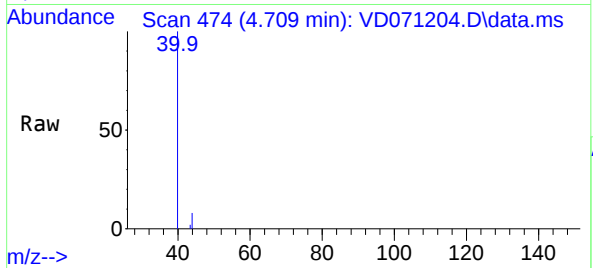




#18
Methyl Acetate
Concen: 3.981 ug/l
RT: 4.709 min Scan# 41
Delta R.T. -0.006 min
Lab File: VD071204.D
Acq: 08 Dec 2021 14:35

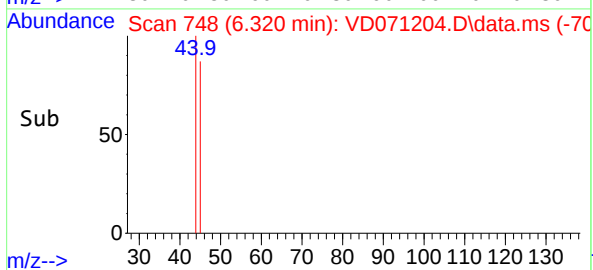
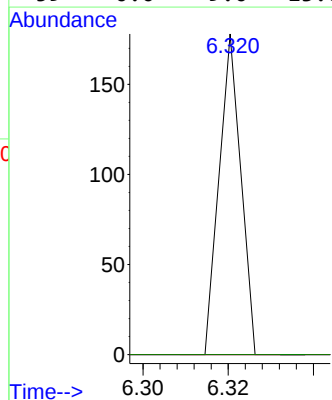
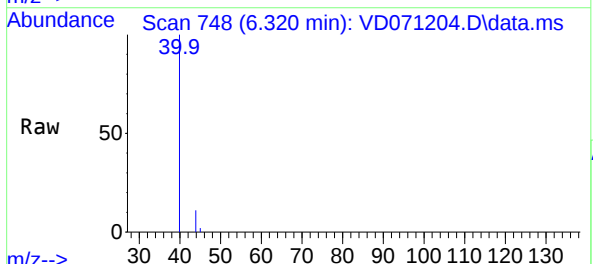
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MSVOA_D
ClientSampleId :
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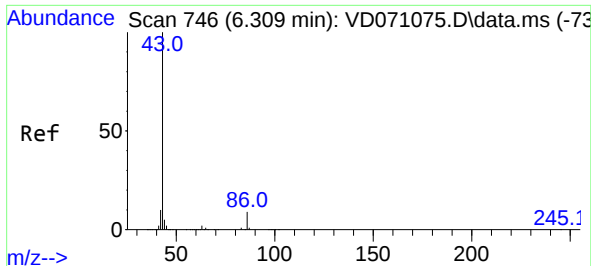
Tgt Ion: 43 Resp: 55
Ion Ratio Lower Upper
43 100
74 0.0 19.3 28.9#



#22
Diisopropyl ether
Concen: 1.117 ug/l
RT: 6.320 min Scan# 748
Delta R.T. -0.047 min
Lab File: VD071204.D
Acq: 08 Dec 2021 14:35

Tgt Ion: 45 Resp: 63
Ion Ratio Lower Upper
45 100
43 0.0 39.6 59.4#
87 0.0 21.2 31.8#
59 0.0 9.0 13.6#

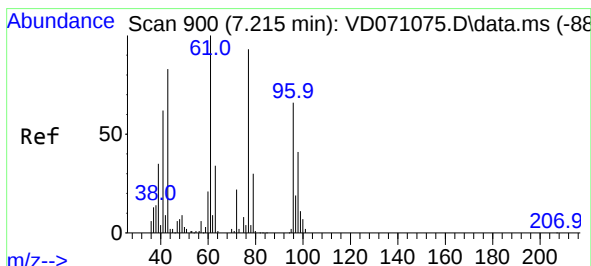
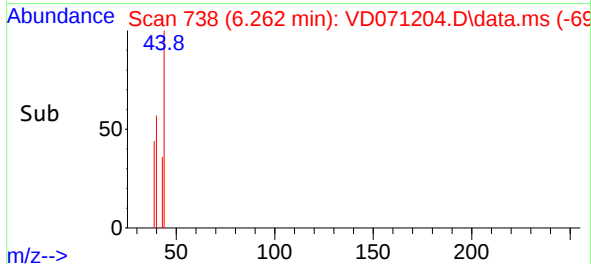
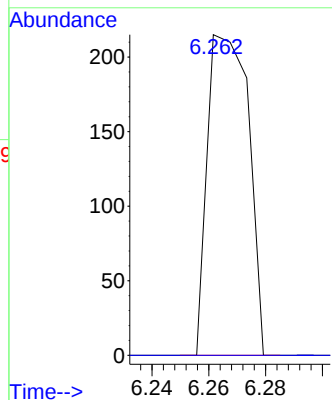
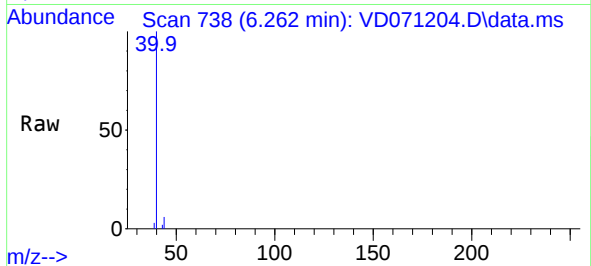




#23
Vinyl Acetate
Concen: 33.531 ug/l
RT: 6.262 min Scan# 71
Delta R.T. -0.047 min
Lab File: VD071204.D
Acq: 08 Dec 2021 14:35

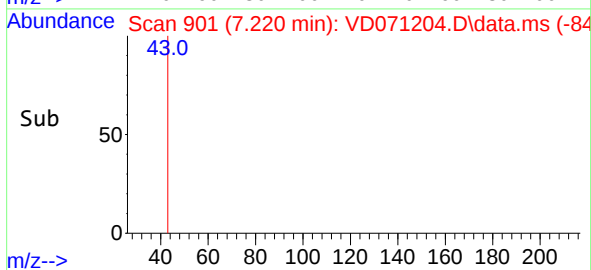
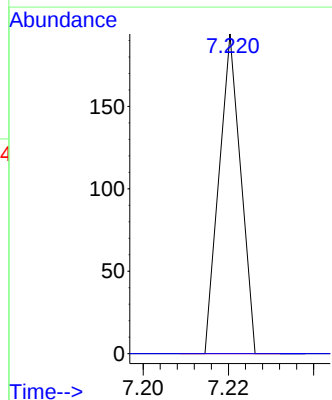
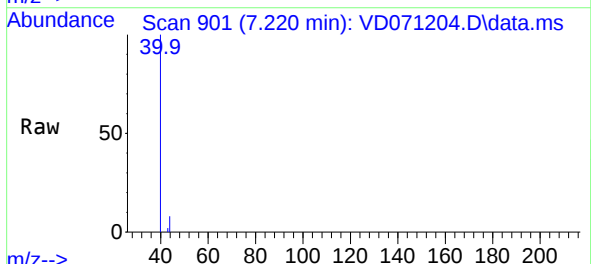
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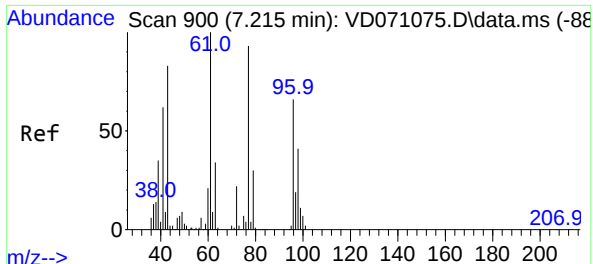
Tgt Ion: 43 Resp: 216
Ion Ratio Lower Upper
43 100
86 0.0 8.2 12.4#



#25
2-Butanone
Concen: 38.856 ug/l
RT: 7.220 min Scan# 901
Delta R.T. 0.005 min
Lab File: VD071204.D
Acq: 08 Dec 2021 14:35

Tgt Ion: 43 Resp: 68
Ion Ratio Lower Upper
43 100
72 0.0 23.8 35.6#





#27

cis-1,2-Dichloroethene

Concen: 5.989 ug/l

RT: 7.015 min Scan# 80

Delta R.T. -0.200 min

Lab File: VD071204.D

Acq: 08 Dec 2021 14:35

Instrument :

MSVOA_D

ClientSampleId :

TP-2RE

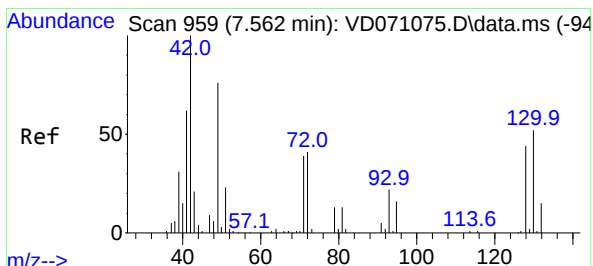
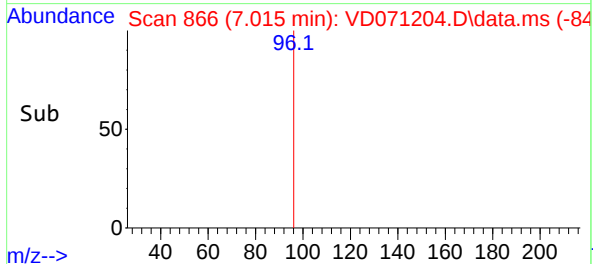
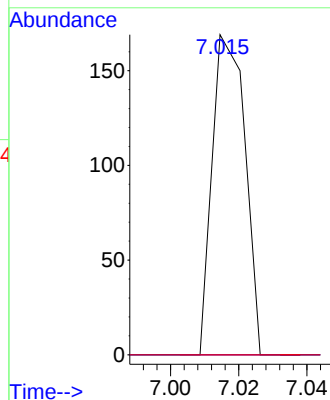
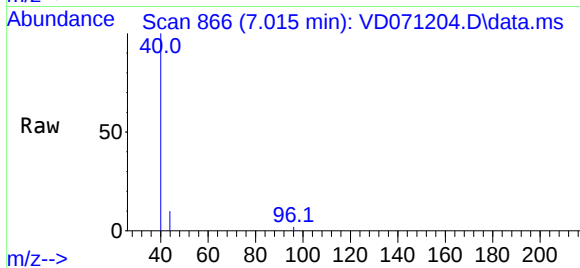
Tgt Ion: 96 Resp: 113

Ion Ratio Lower Upper

96 100

61 0.0 0.0 288.6

98 0.0 0.0 129.2



#29

Tetrahydrofuran

Concen: 18.495 ug/l

RT: 7.520 min Scan# 952

Delta R.T. -0.042 min

Lab File: VD071204.D

Acq: 08 Dec 2021 14:35

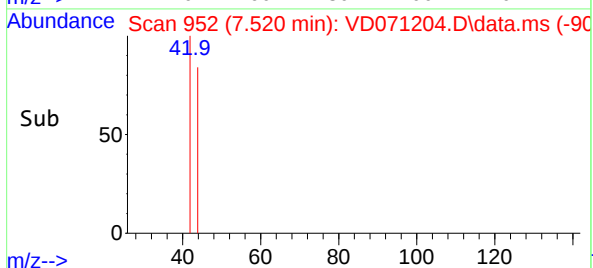
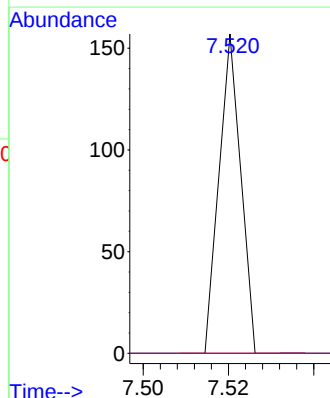
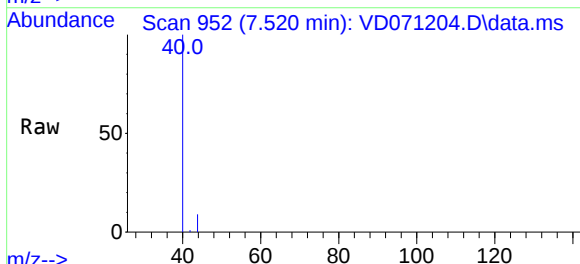
Tgt Ion: 42 Resp: 55

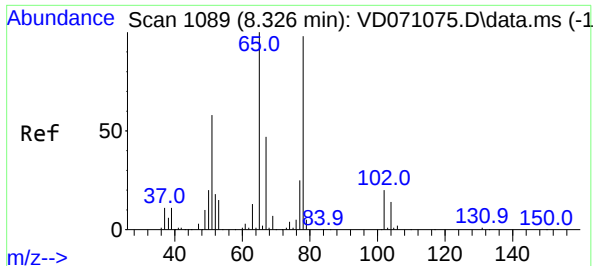
Ion Ratio Lower Upper

42 100

72 0.0 33.7 50.5#

71 0.0 32.7 49.1#





#33

1,2-Dichloroethane-d4

Concen: 81.379 ug/l

RT: 8.332 min Scan# 1108

Delta R.T. 0.006 min

Lab File: VD071204.D

Acq: 08 Dec 2021 14:35

Instrument :

MSVOA_D

ClientSampleId :

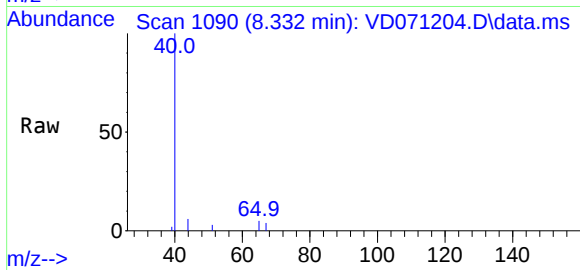
TP-2RE

Tgt Ion: 65 Resp: 1524

Ion Ratio Lower Upper

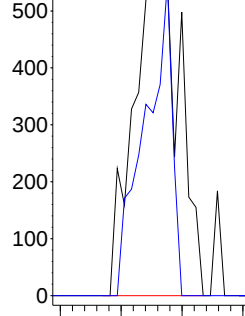
65 100

67 55.8 0.0 112.2

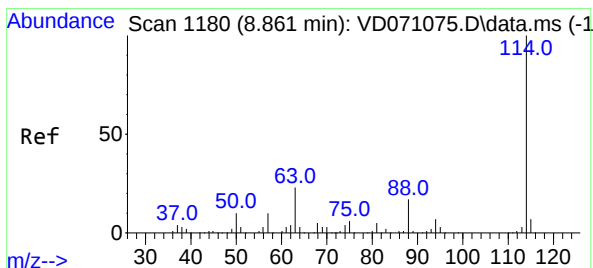
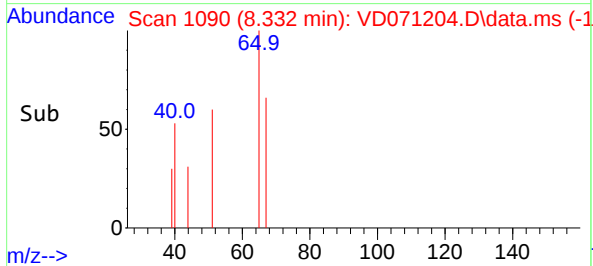


Abundance

8.332



Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.873 min Scan# 1182

Delta R.T. 0.012 min

Lab File: VD071204.D

Acq: 08 Dec 2021 14:35

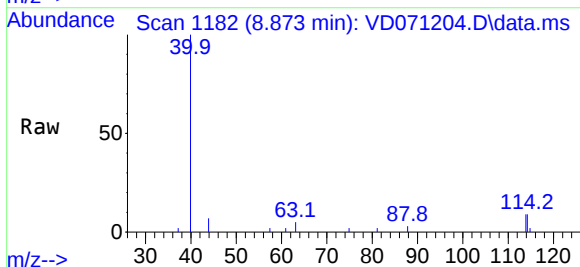
Tgt Ion: 114 Resp: 3171

Ion Ratio Lower Upper

114 100

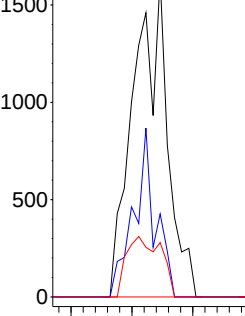
63 26.0 0.0 41.8

88 17.0 0.0 32.8

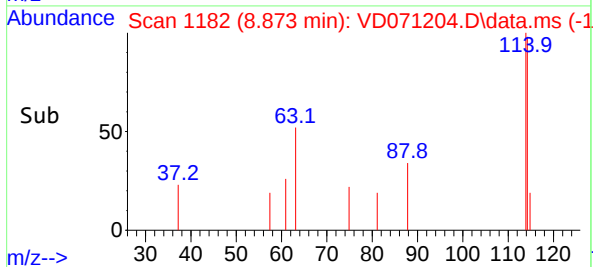


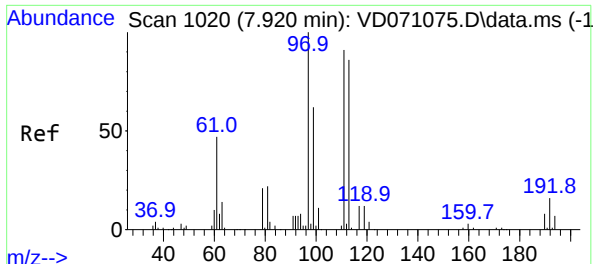
Abundance

8.873



Time-->

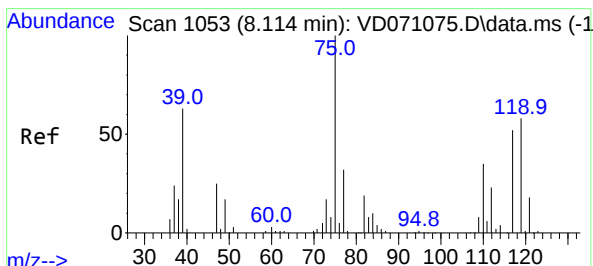
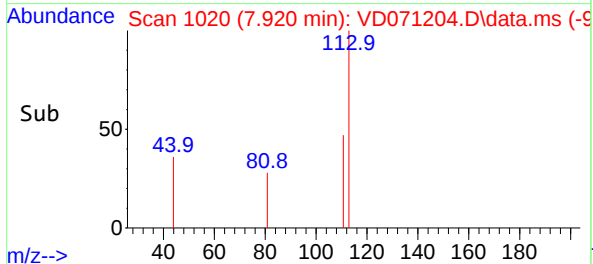
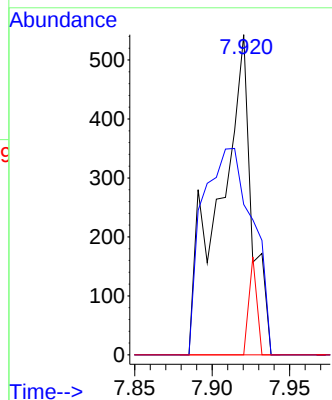
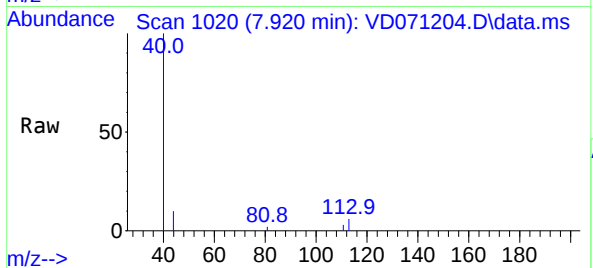




#35
Dibromofluoromethane
Concen: 38.777 ug/l
RT: 7.920 min Scan# 1020
Delta R.T. 0.000 min
Lab File: VD071204.D
Acq: 08 Dec 2021 14:35

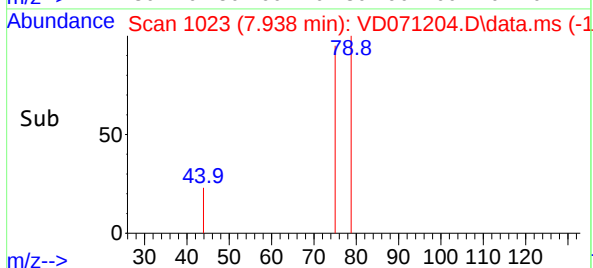
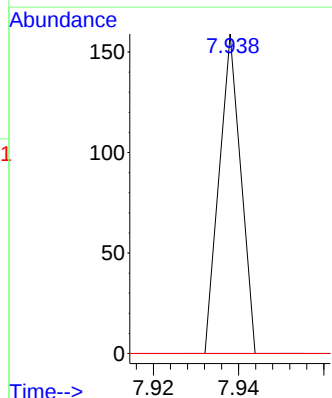
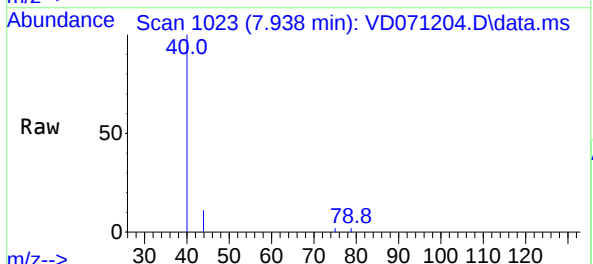
Instrument :
MSVOA_D
ClientSampleId :
TP-2RE

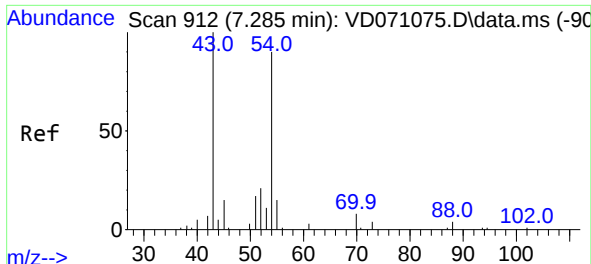
Tgt Ion:113 Resp: 783
Ion Ratio Lower Upper
113 100
111 99.7 82.0 123.0
192 7.5 15.2 22.8#



#36
1,1-Dichloropropene
Concen: 1.890 ug/l
RT: 7.938 min Scan# 1023
Delta R.T. -0.176 min
Lab File: VD071204.D
Acq: 08 Dec 2021 14:35

Tgt Ion: 75 Resp: 56
Ion Ratio Lower Upper
75 100
110 0.0 17.8 53.4#
77 0.0 24.8 37.2#





#37

Ethyl Acetate

Concen: 5.312 ug/l

RT: 7.220 min Scan# 90

Delta R.T. -0.065 min

Lab File: VD071204.D

Acq: 08 Dec 2021 14:35

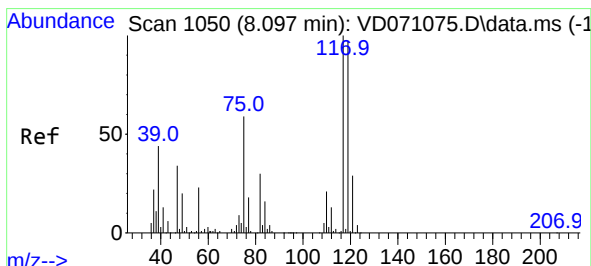
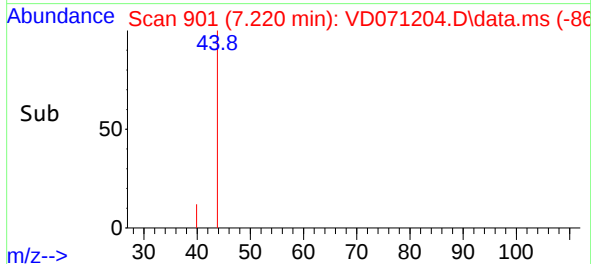
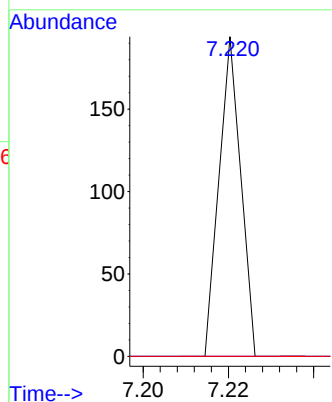
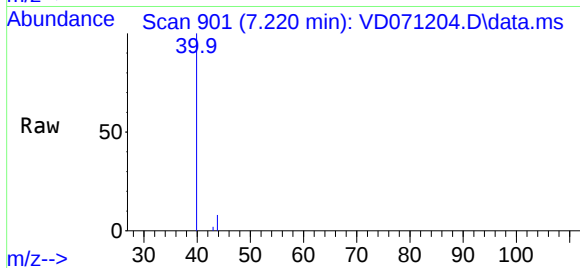
Instrument :

MSVOA_D

ClientSampleId :

TP-2RE

Tgt Ion: 43	Resp: 68
Ion Ratio	Lower Upper
43 100	
61 0.0	13.0 19.6#
70 0.0	8.7 13.1#



#38

Carbon Tetrachloride

Concen: 2.499 ug/l

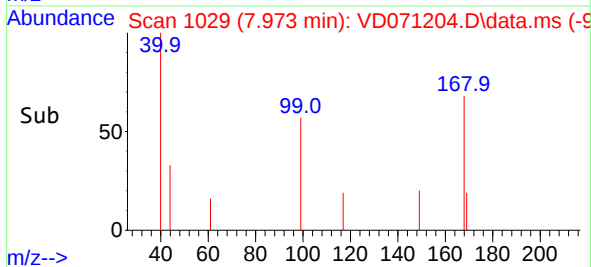
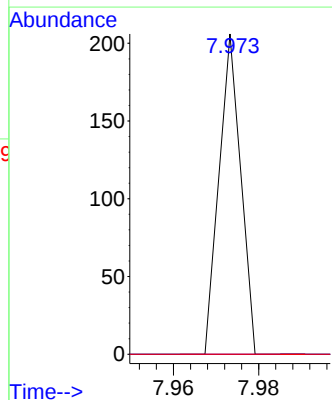
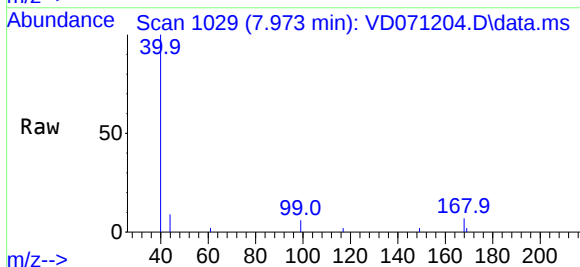
RT: 7.973 min Scan# 1029

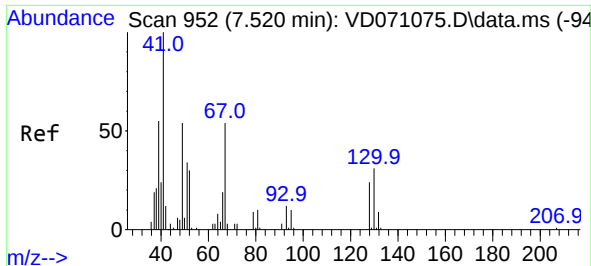
Delta R.T. -0.124 min

Lab File: VD071204.D

Acq: 08 Dec 2021 14:35

Tgt Ion: 117	Resp: 73
Ion Ratio	Lower Upper
117 100	
119 0.0	75.8 113.6#
121 0.0	23.6 35.4#

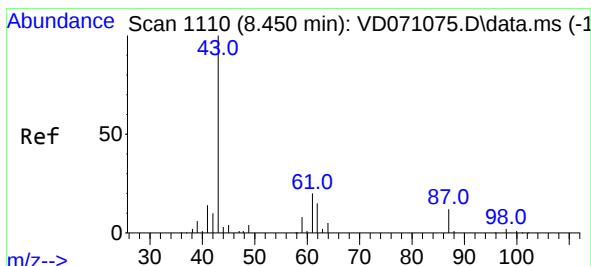
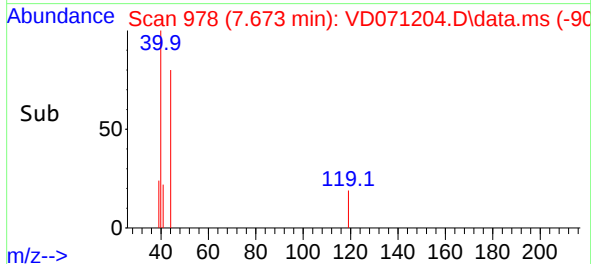
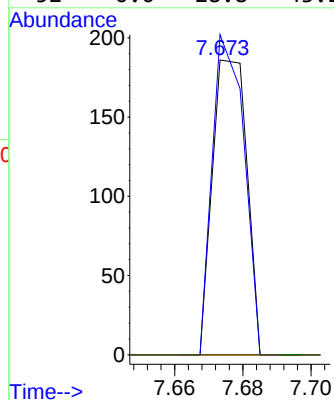
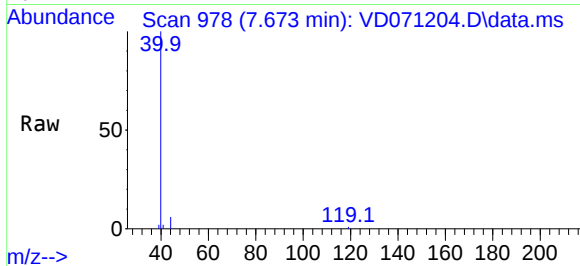




#41
Methacrylonitrile
Concen: 22.669 ug/l
RT: 7.673 min Scan# 91
Delta R.T. 0.153 min
Lab File: VD071204.D
Acq: 08 Dec 2021 14:35

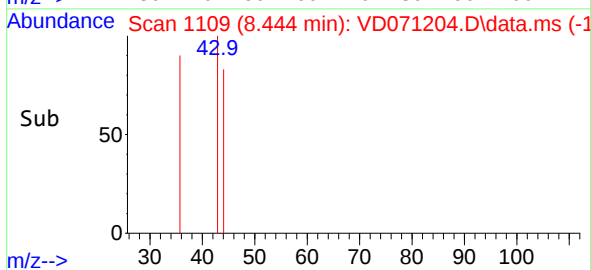
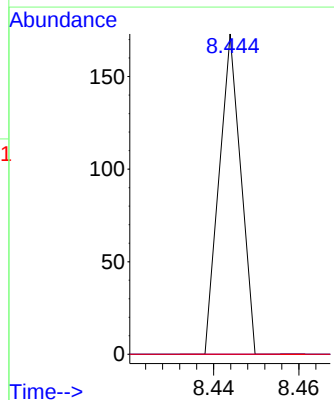
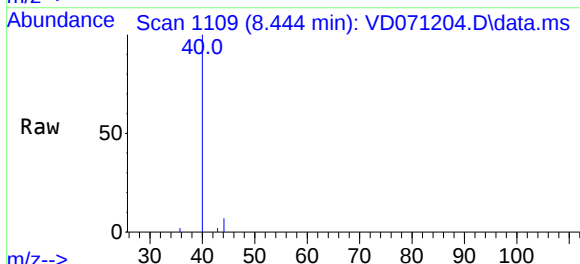
Instrument :
MSVOA_D
ClientSampleId :
TP-2RE

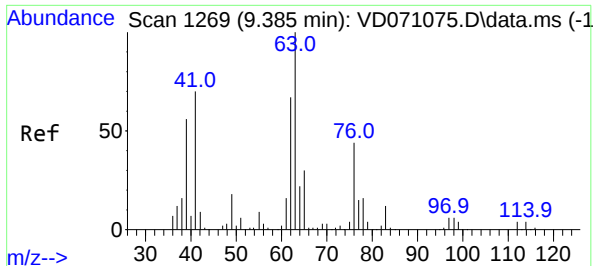
Tgt Ion:	41	Resp:	131
Ion	Ratio	Lower	Upper
41	100		
39	100.0	60.2	90.4#
67	0.0	74.8	112.2#
52	0.0	28.8	43.2#



#43
Isopropyl Acetate
Concen: 7.162 ug/l
RT: 8.444 min Scan# 1109
Delta R.T. -0.006 min
Lab File: VD071204.D
Acq: 08 Dec 2021 14:35

Tgt Ion:	43	Resp:	61
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: 2.740 ug/l

RT: 9.273 min Scan# 11

Delta R.T. -0.112 min

Lab File: VD071204.D

Acq: 08 Dec 2021 14:35

Instrument :

MSVOA_D

ClientSampleId :

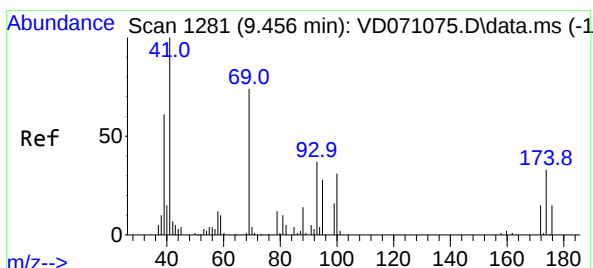
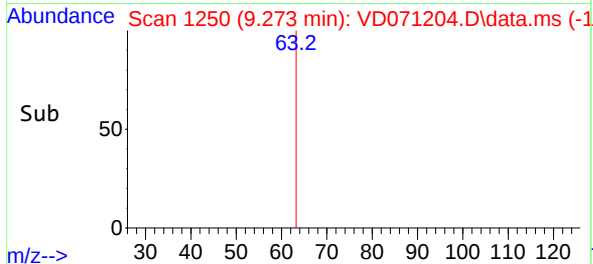
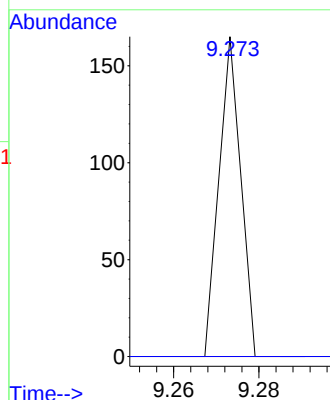
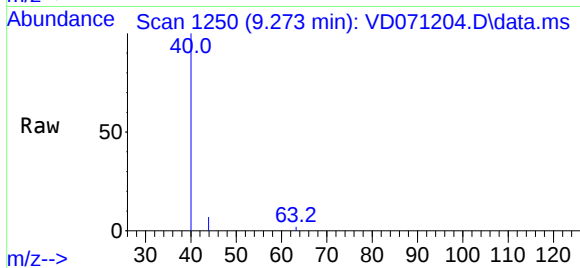
TP-2RE

Tgt Ion: 63 Resp: 58

Ion Ratio Lower Upper

63 100

65 0.0 24.2 36.2#



#48

Methyl methacrylate

Concen: 6.304 ug/l

RT: 9.356 min Scan# 1264

Delta R.T. -0.100 min

Lab File: VD071204.D

Acq: 08 Dec 2021 14:35

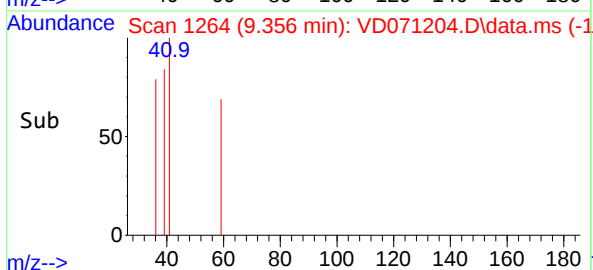
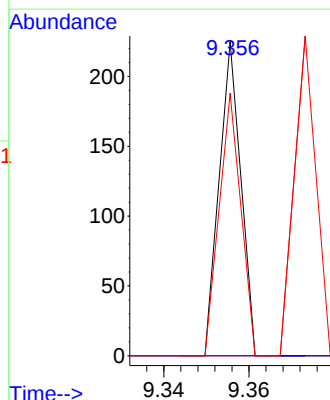
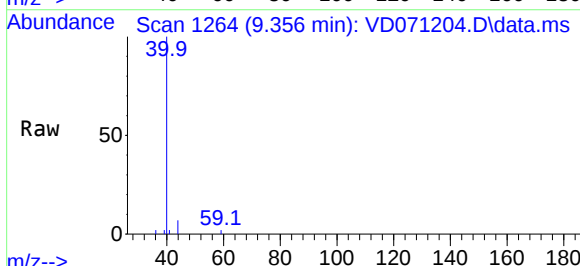
Tgt Ion: 41 Resp: 79

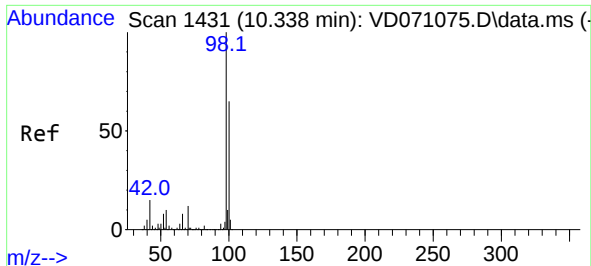
Ion Ratio Lower Upper

41 100

69 0.0 69.8 104.6#

39 83.5 35.6 53.4#

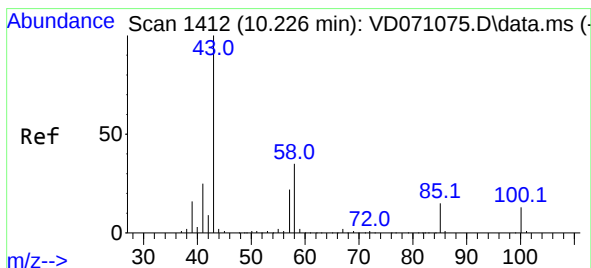
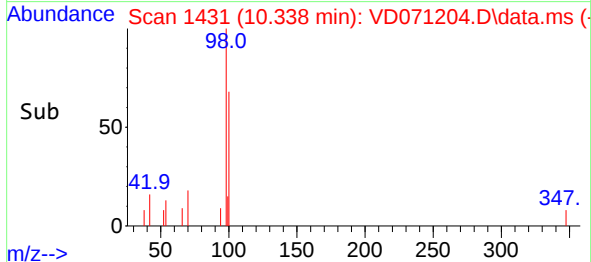
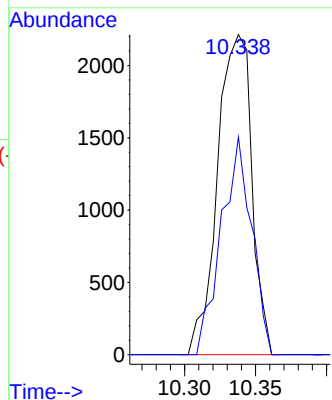
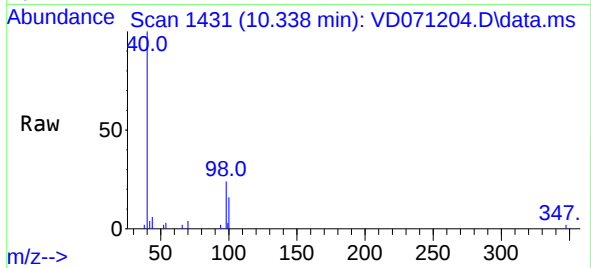




#50
Toluene-d8
Concen: 48.384 ug/l
RT: 10.338 min Scan# 1431
Delta R.T. -0.000 min
Lab File: VD071204.D
Acq: 08 Dec 2021 14:35

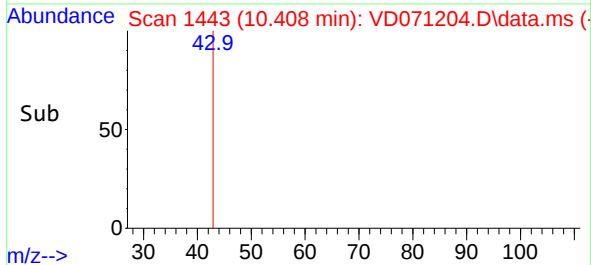
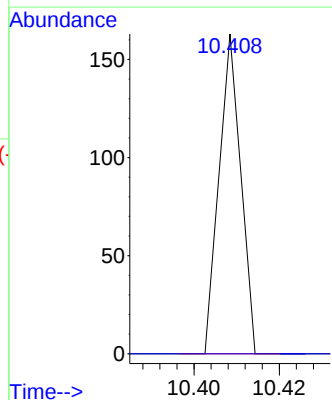
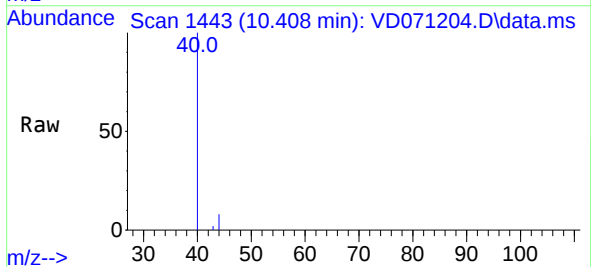
Instrument :
MSVOA_D
ClientSampleId :
TP-2RE

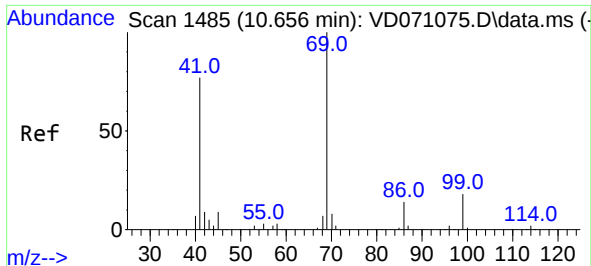
Tgt Ion: 98 Resp: 3718
Ion Ratio Lower Upper
98 100
100 60.4 51.8 77.6



#51
4-Methyl-2-Pentanone
Concen: 34.116 ug/l
RT: 10.408 min Scan# 1443
Delta R.T. 0.182 min
Lab File: VD071204.D
Acq: 08 Dec 2021 14:35

Tgt Ion: 43 Resp: 57
Ion Ratio Lower Upper
43 100
58 0.0 33.1 49.7#

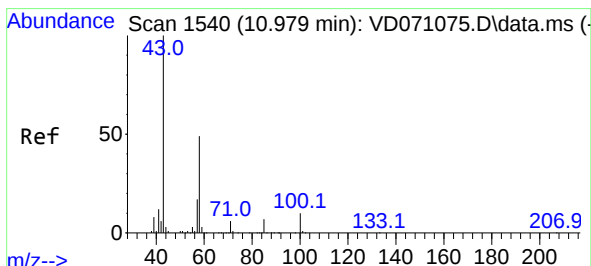
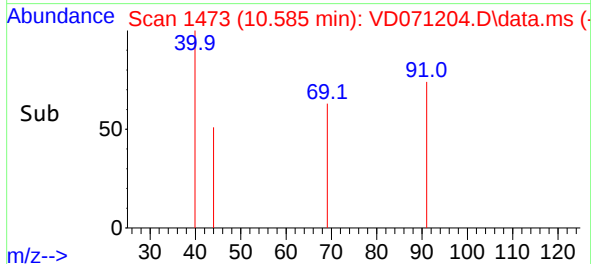
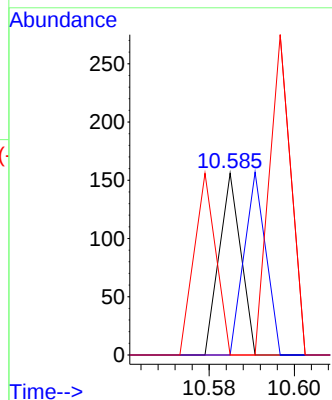
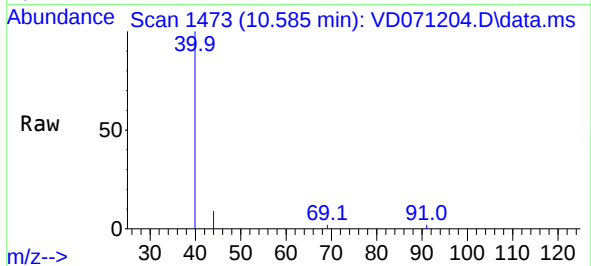




#56
Ethyl methacrylate
Concen: 8.305 ug/l
RT: 10.585 min Scan# 14
Delta R.T. -0.071 min
Lab File: VD071204.D
Acq: 08 Dec 2021 14:35

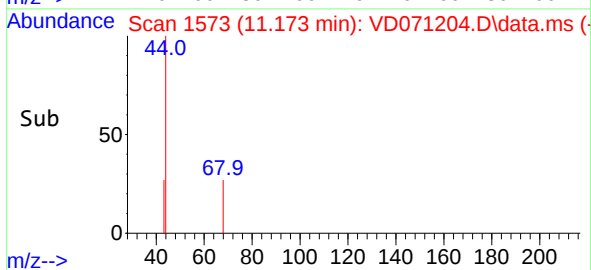
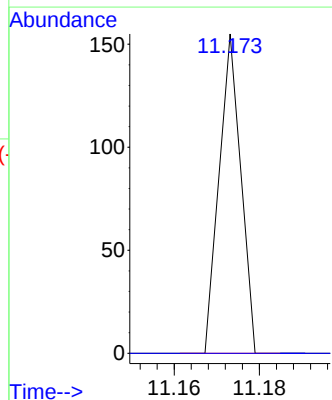
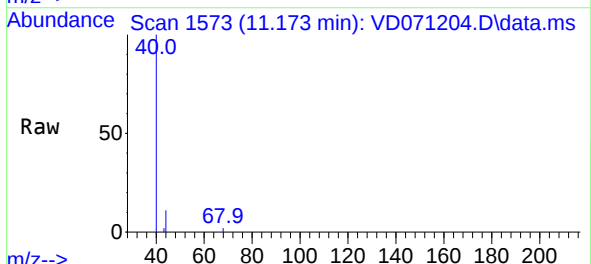
Instrument :
MSVOA_D
ClientSampleId :
TP-2RE

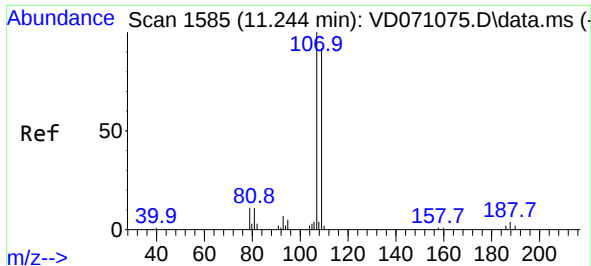
Tgt Ion: 69 Resp: 55
Ion Ratio Lower Upper
69 100
41 100.0 50.2 75.2#
39 176.4 19.8 29.8#



#59
2-Hexanone
Concen: 38.931 ug/l
RT: 11.173 min Scan# 1573
Delta R.T. 0.194 min
Lab File: VD071204.D
Acq: 08 Dec 2021 14:35

Tgt Ion: 43 Resp: 55
Ion Ratio Lower Upper
43 100
58 0.0 28.7 86.1#





#61

1,2-Dibromoethane

Concen: 4.625 ug/l

RT: 11.279 min Scan# 1

Delta R.T. 0.035 min

Lab File: VD071204.D

Acq: 08 Dec 2021 14:35

Instrument :

MSVOA_D

ClientSampleId :

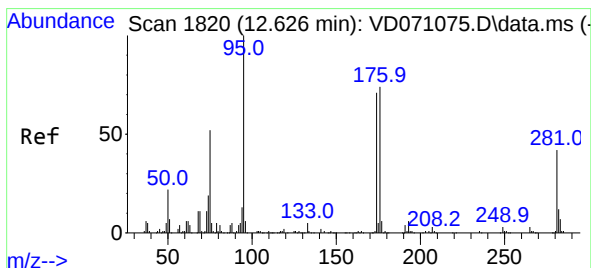
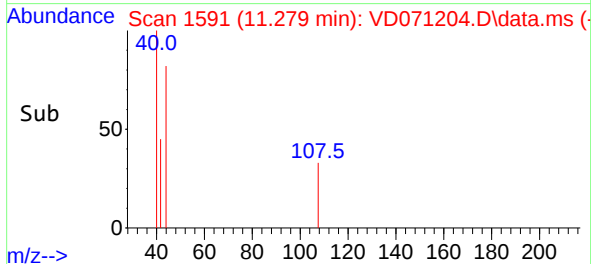
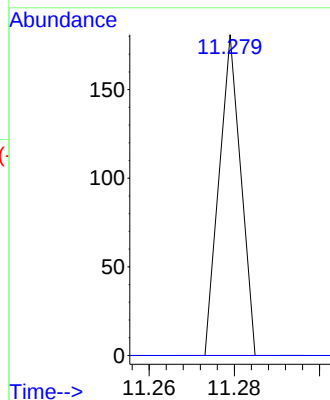
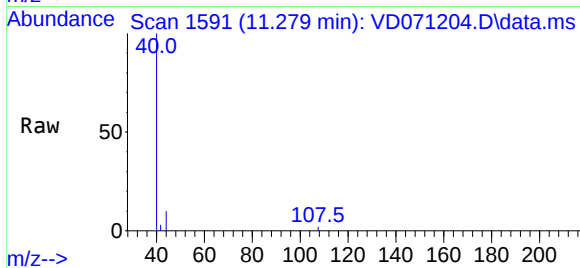
TP-2RE

Tgt Ion:107 Resp: 64

Ion Ratio Lower Upper

107 100

109 0.0 74.6 112.0#



#62

4-Bromofluorobenzene

Concen: 48.655 ug/l

RT: 12.626 min Scan# 1820

Delta R.T. -0.000 min

Lab File: VD071204.D

Acq: 08 Dec 2021 14:35

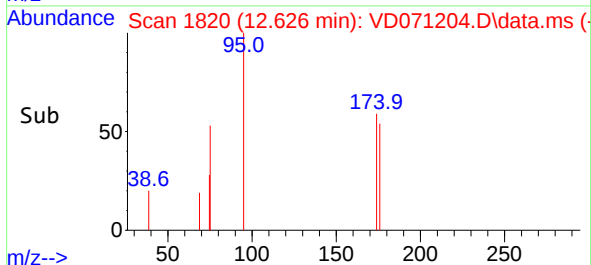
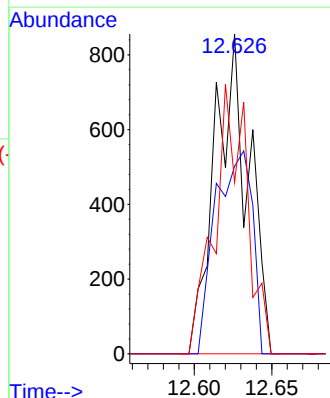
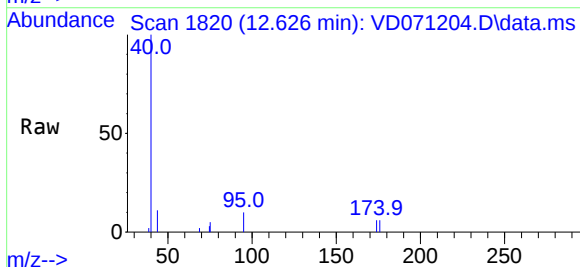
Tgt Ion: 95 Resp: 1296

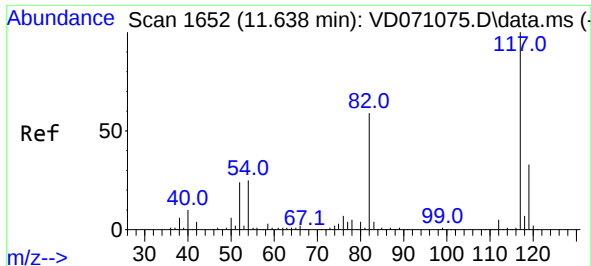
Ion Ratio Lower Upper

95 100

174 69.2 0.0 159.4

176 80.2 0.0 154.0

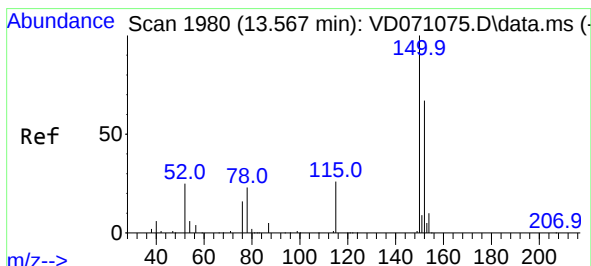
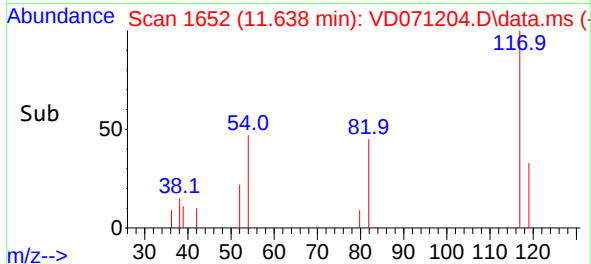
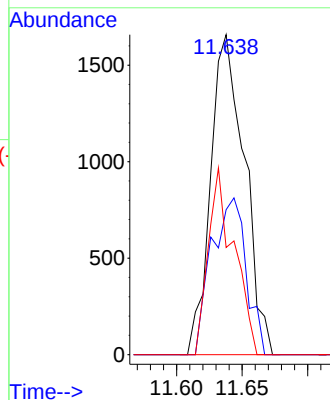
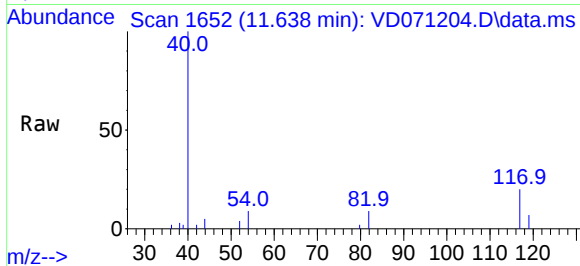




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 11
Delta R.T. -0.000 min
Lab File: VD071204.D
Acq: 08 Dec 2021 14:35

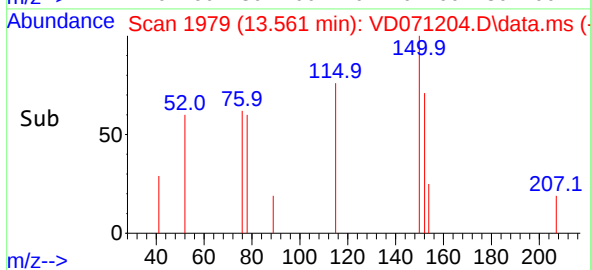
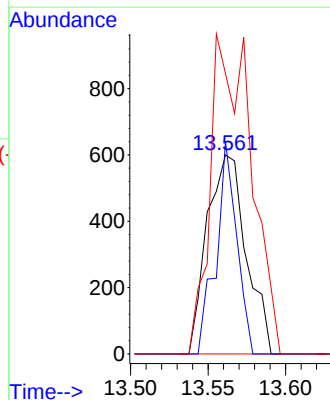
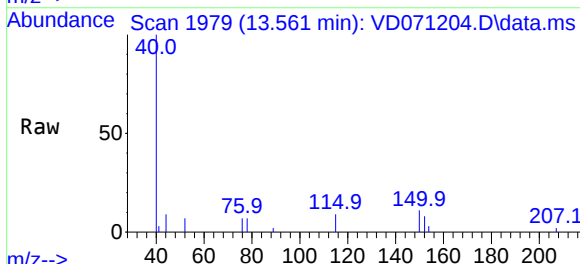
Instrument :
MSVOA_D
ClientSampleId :
TP-2RE

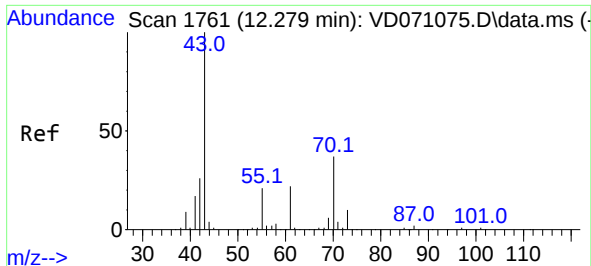
Tgt Ion:117	Resp:	2978
Ion	Ratio	Lower Upper
117	100	
82	45.3	44.7 67.1
119	33.5	26.2 39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.561 min Scan# 1979
Delta R.T. -0.006 min
Lab File: VD071204.D
Acq: 08 Dec 2021 14:35

Tgt Ion:152	Resp:	1048
Ion	Ratio	Lower Upper
152	100	
115	56.5	29.8 89.3
150	169.3	0.0 349.2

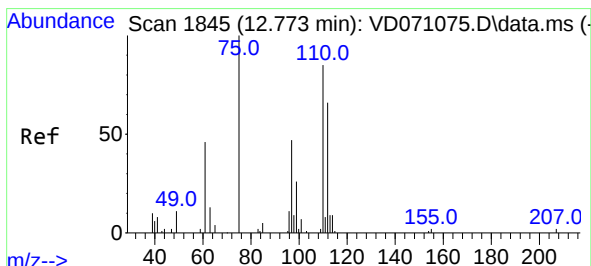
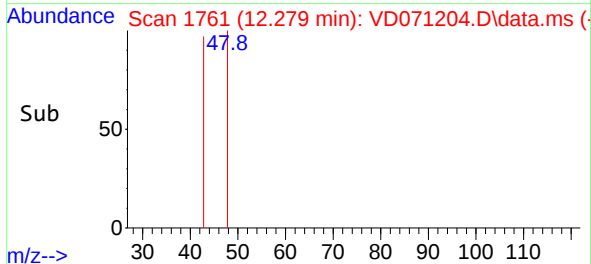
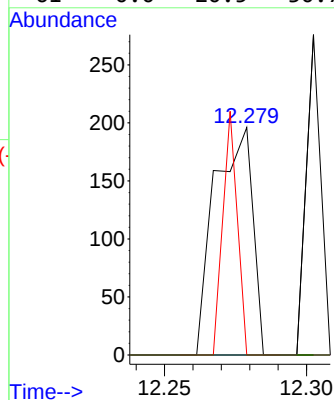
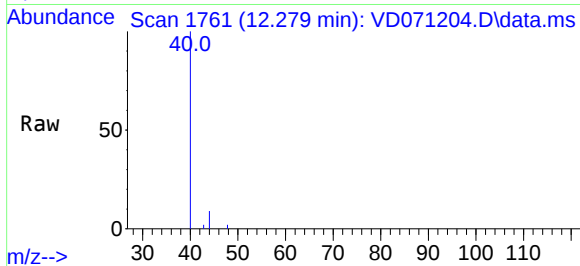




#74
N-amy1 acetate
Concen: 13.420 ug/l
RT: 12.279 min Scan# 11
Delta R.T. -0.000 min
Lab File: VD071204.D
Acq: 08 Dec 2021 14:35

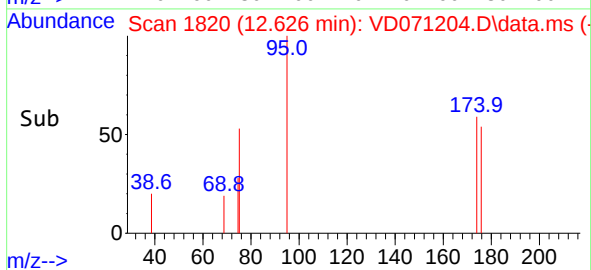
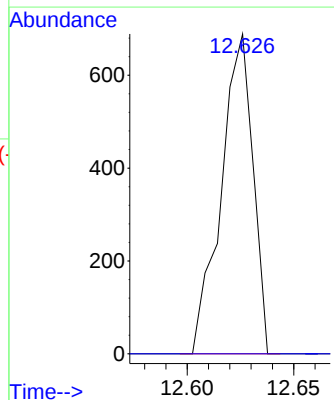
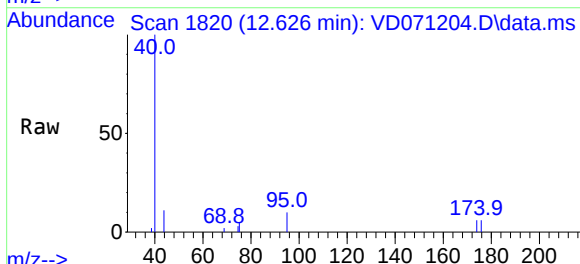
Instrument :
MSVOA_D
ClientSampleId :
TP-2RE

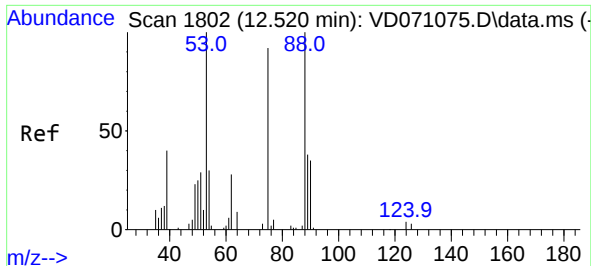
Tgt Ion: 43	Resp:	181	
Ion	Ratio	Lower	Upper
43	100		
70	0.0	36.6	55.0#
55	40.9	22.5	33.7#
61	0.0	20.5	30.7#



#76
1,2,3-Trichloropropane
Concen: 71.809 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.147 min
Lab File: VD071204.D
Acq: 08 Dec 2021 14:35

Tgt Ion: 75	Resp:	717	
Ion Ratio	Lower	Upper	
75 100			
77 0.0	158.4	475.3#	

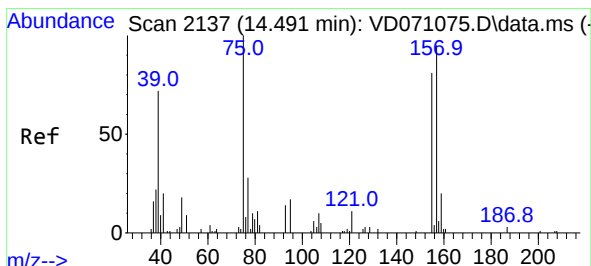
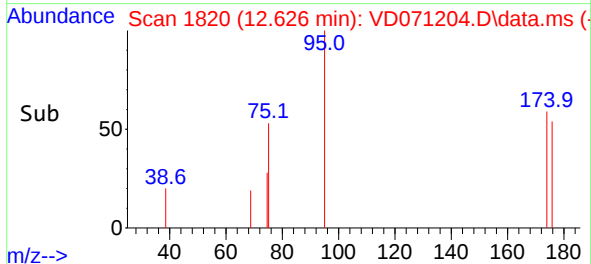
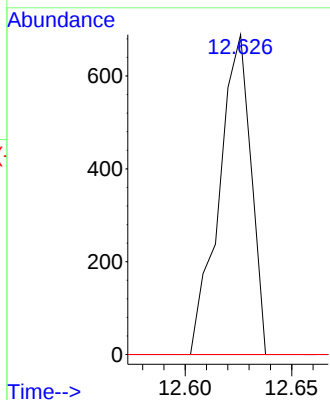
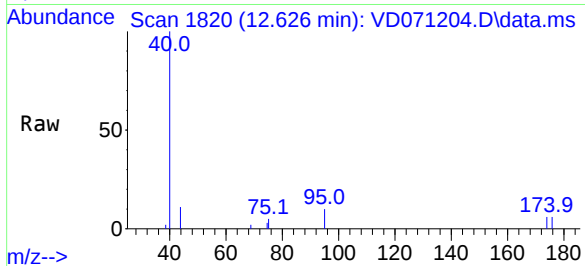




#81
trans-1,4-Dichloro-2-butene
Concen: 154.335 ug/l
RT: 12.626 min Scan# 111
Delta R.T. 0.106 min
Lab File: VD071204.D
Acq: 08 Dec 2021 14:35

Instrument :
MSVOA_D
ClientSampleId :
TP-2RE

Tgt Ion: 75 Resp: 717
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: 37.345 ug/l
RT: 14.373 min Scan# 2117
Delta R.T. -0.118 min
Lab File: VD071204.D
Acq: 08 Dec 2021 14:35

Tgt Ion: 75 Resp: 76
Ion Ratio Lower Upper
75 100
155 0.0 40.0 120.0#
157 0.0 49.8 149.3#

