

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD020822\
 Data File : VD071924.D
 Acq On : 08 Feb 2022 18:12
 Operator : VA/SY
 Sample : N1423-10RE
 Misc : 5.01G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TP-25RE

Quant Time: Feb 09 04:01:38 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D012622S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 27 06:04:38 2022
 Response via : Initial Calibration

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

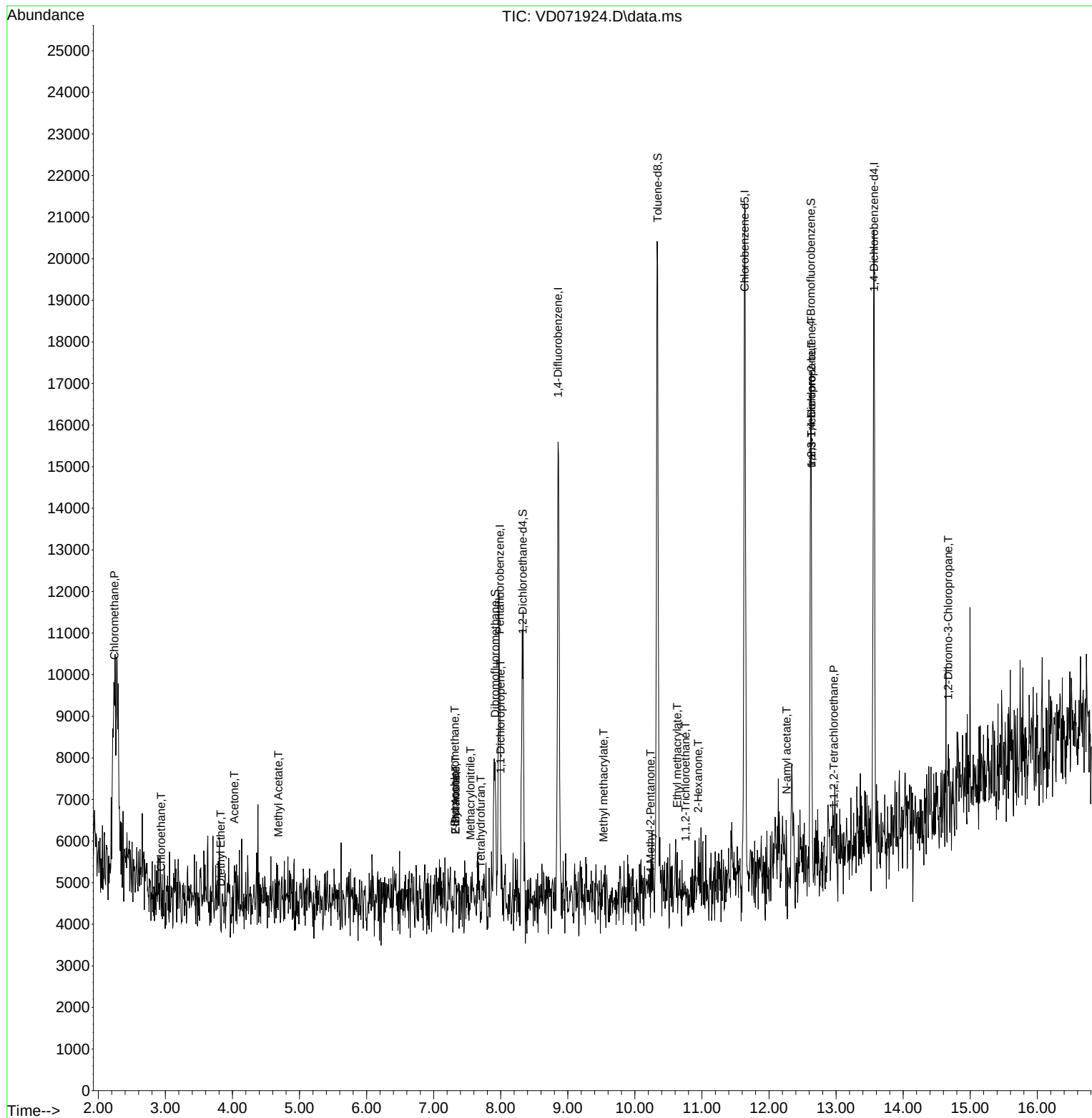
Internal Standards						
1) Pentafluorobenzene	7.985	168	5424	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.855	114	8536	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	8185	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	3735	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	5250	76.579	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 153.160%			
35) Dibromofluoromethane	7.914	113	2722	48.512	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 97.020%			
50) Toluene-d8	10.338	98	10744	51.272	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 102.540%			
62) 4-Bromofluorobenzene	12.626	95	3745	51.177	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 102.360%			
Target Compounds					Qvalue	
3) Chloromethane	2.238	50	170	2.208	ug/l #	40
6) Chloroethane	2.938	64	55	1.076	ug/l #	42
8) Diethyl Ether	3.826	74	59	1.935	ug/l #	1
16) Acetone	4.026	43	62	3.304	ug/l #	47
18) Methyl Acetate	4.685	43	118	2.908	ug/l #	55
25) 2-Butanone	7.326	43	57	2.605	ug/l #	52
28) Bromochloromethane	7.314	49	64	1.308	ug/l #	19
29) Tetrahydrofuran	7.703	42	62	4.790	ug/l #	38
36) 1,1-Dichloropropene	7.997	75	154	1.599	ug/l #	43
37) Ethyl Acetate	7.326	43	57	1.273	ug/l #	72
41) Methacrylonitrile	7.550	41	59	2.329	ug/l #	16
48) Methyl methacrylate	9.532	41	84	1.972	ug/l #	42
51) 4-Methyl-2-Pentanone	10.232	43	76	1.805	ug/l #	39
55) 1,1,2-Trichloroethane	10.755	97	74	1.589	ug/l #	15
56) Ethyl methacrylate	10.632	69	62	1.075	ug/l #	1
59) 2-Hexanone	10.944	43	139	4.548	ug/l #	27
74) N-amyl acetate	12.261	43	131	1.842	ug/l #	69
75) 1,1,2,2-Tetrachloroethane	12.967	83	60	1.121	ug/l #	25
76) 1,2,3-Trichloropropane	12.632	75	2187	55.561	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.632	75	2187	136.611	ug/l #	9
92) 1,2-Dibromo-3-Chloropr...	14.673	75	69	7.784	ug/l #	6

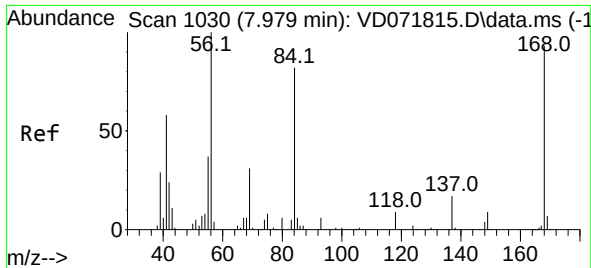
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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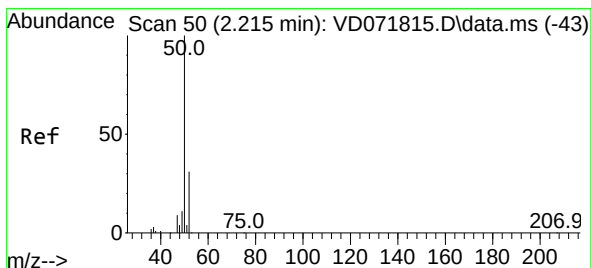
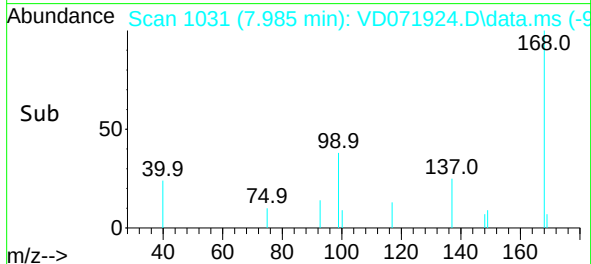
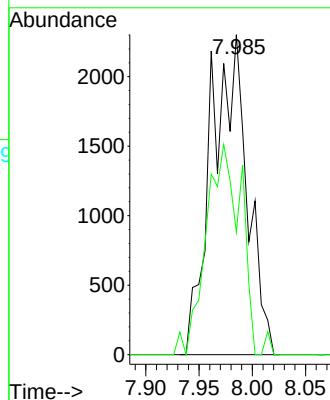
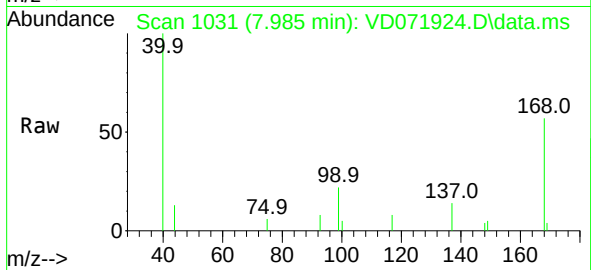




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.985 min Scan# 10
Delta R.T. 0.006 min
Lab File: VD071924.D
Acq: 08 Feb 2022 18:12

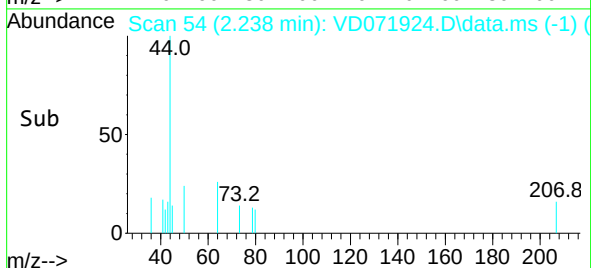
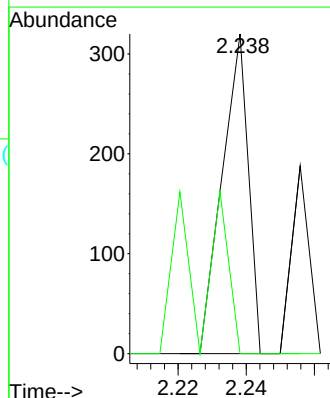
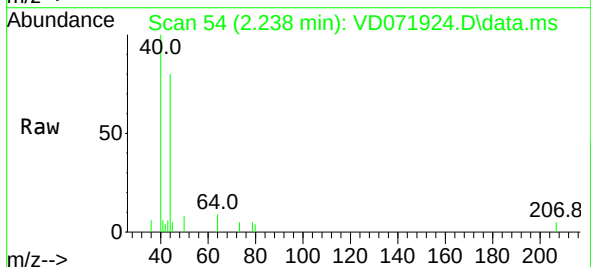
Instrument :
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TP-25RE

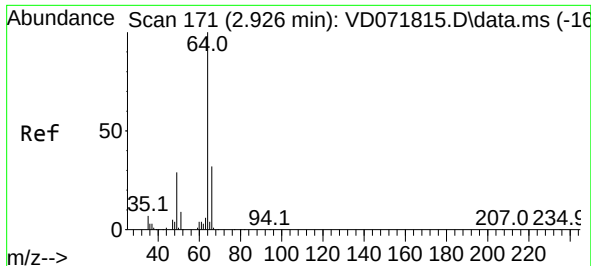
Tgt Ion:168 Resp: 5424
Ion Ratio Lower Upper
168 100
99 38.3 49.8 74.6#



#3
Chloromethane
Concen: 2.208 ug/l
RT: 2.238 min Scan# 54
Delta R.T. 0.024 min
Lab File: VD071924.D
Acq: 08 Feb 2022 18:12

Tgt Ion: 50 Resp: 170
Ion Ratio Lower Upper
50 100
52 0.0 27.4 41.0#

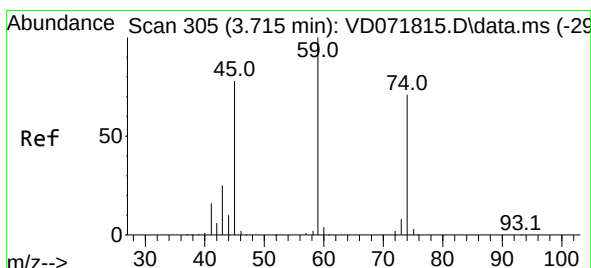
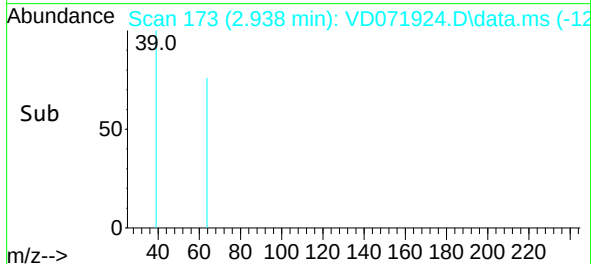
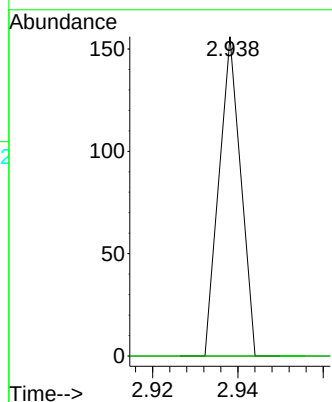
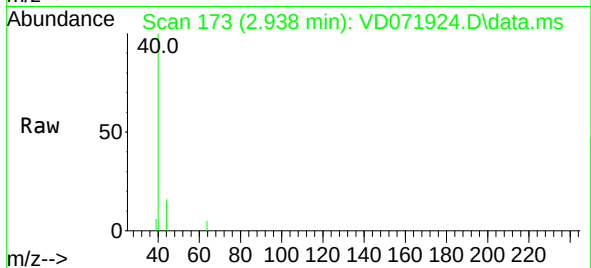




#6
Chloroethane
Concen: 1.076 ug/l
RT: 2.938 min Scan# 11
Delta R.T. 0.012 min
Lab File: VD071924.D
Acq: 08 Feb 2022 18:12

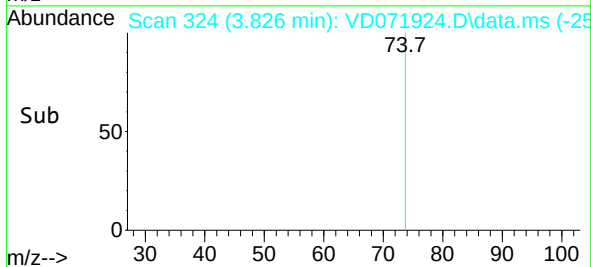
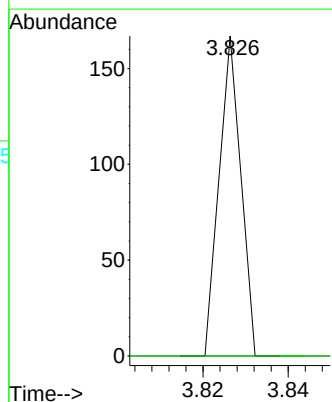
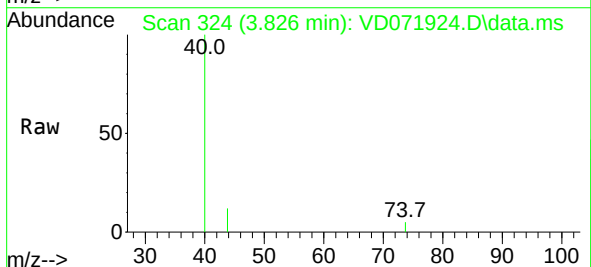
Instrument :
MSVOA_D
ClientSampleId :
TP-25RE

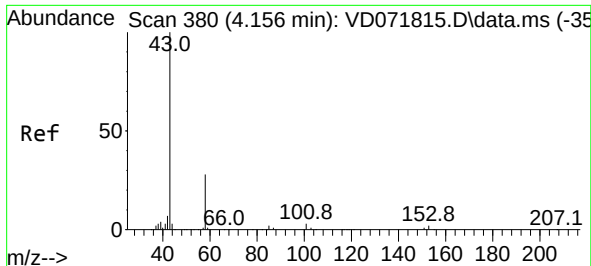
Tgt Ion: 64 Resp: 55
Ion Ratio Lower Upper
64 100
66 0.0 25.9 38.9#



#8
Diethyl Ether
Concen: 1.935 ug/l
RT: 3.826 min Scan# 324
Delta R.T. 0.118 min
Lab File: VD071924.D
Acq: 08 Feb 2022 18:12

Tgt Ion: 74 Resp: 59
Ion Ratio Lower Upper
74 100
45 0.0 52.6 157.8#

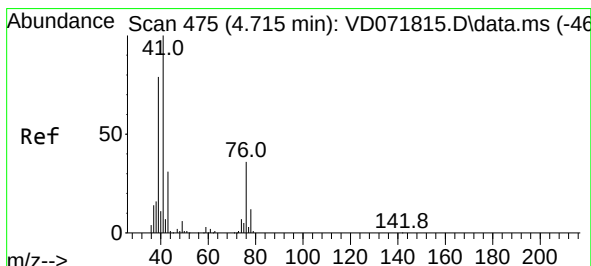
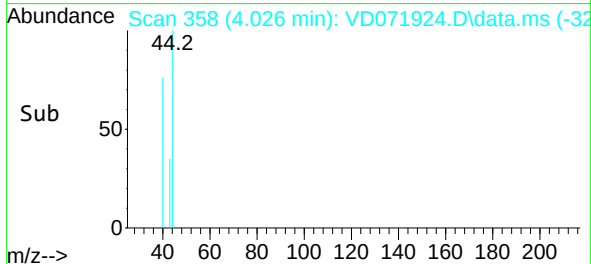
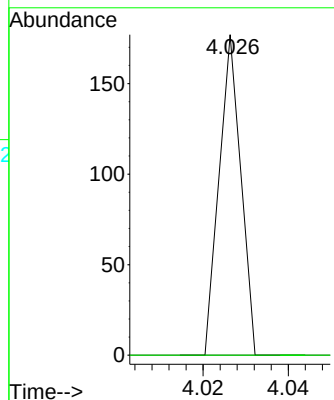
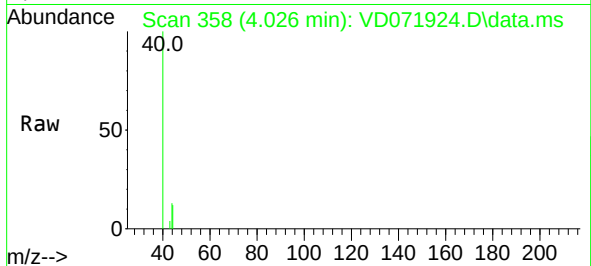




#16
Acetone
Concen: 3.304 ug/l
RT: 4.026 min Scan# 31
Delta R.T. -0.129 min
Lab File: VD071924.D
Acq: 08 Feb 2022 18:12

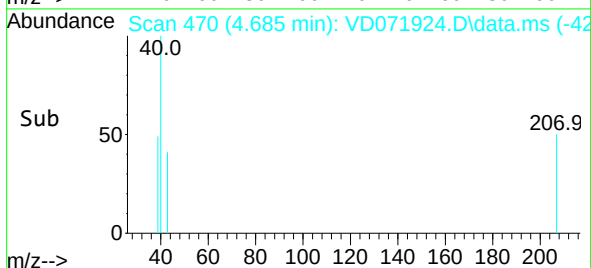
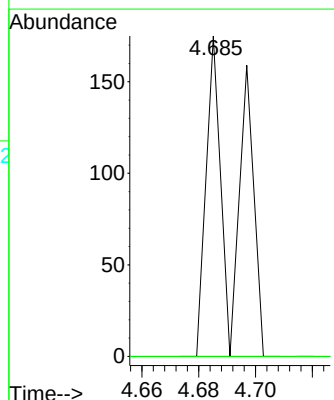
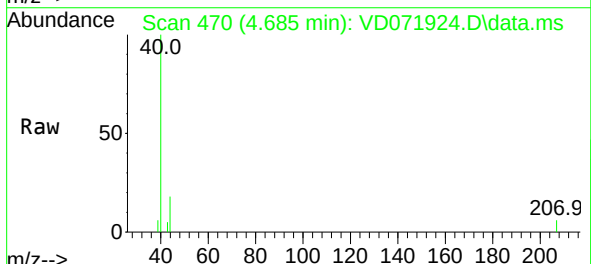
Instrument :
MSVOA_D
ClientSampleId :
TP-25RE

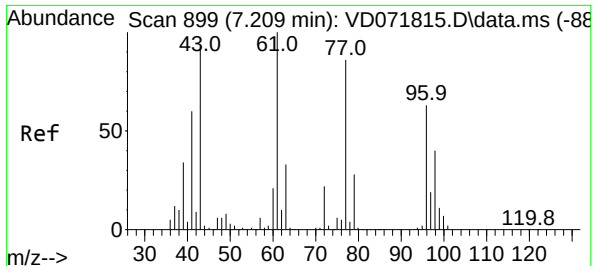
Tgt Ion: 43 Resp: 62
Ion Ratio Lower Upper
43 100
58 0.0 22.1 33.1#



#18
Methyl Acetate
Concen: 2.908 ug/l
RT: 4.685 min Scan# 470
Delta R.T. -0.035 min
Lab File: VD071924.D
Acq: 08 Feb 2022 18:12

Tgt Ion: 43 Resp: 118
Ion Ratio Lower Upper
43 100
74 0.0 16.7 25.1#





#25

2-Butanone

Concen: 2.605 ug/l

RT: 7.326 min Scan# 919

Delta R.T. 0.112 min

Lab File: VD071924.D

Acq: 08 Feb 2022 18:12

Instrument :

MSVOA_D

ClientSampleId :

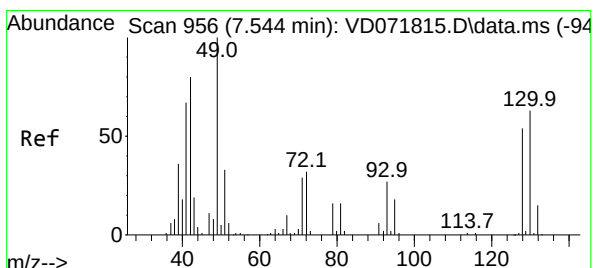
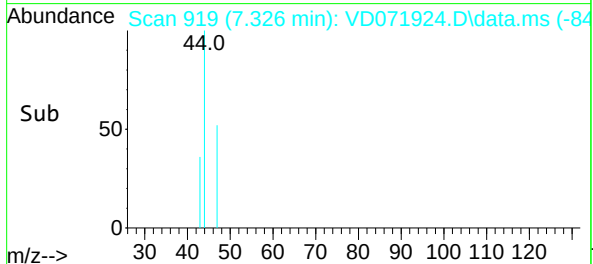
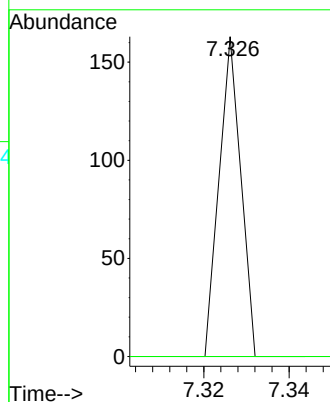
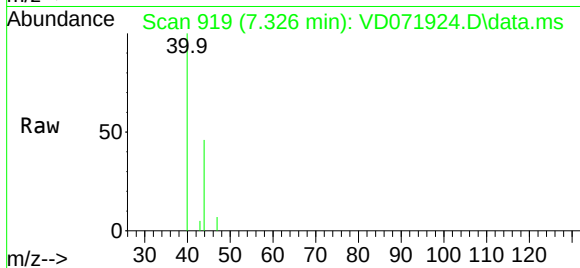
TP-25RE

Tgt Ion: 43 Resp: 57

Ion Ratio Lower Upper

43 100

72 0.0 18.6 27.8#



#28

Bromochloromethane

Concen: 1.308 ug/l

RT: 7.314 min Scan# 917

Delta R.T. -0.235 min

Lab File: VD071924.D

Acq: 08 Feb 2022 18:12

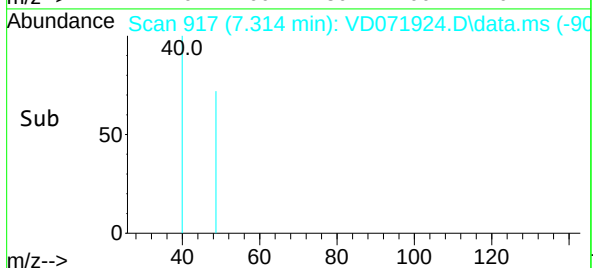
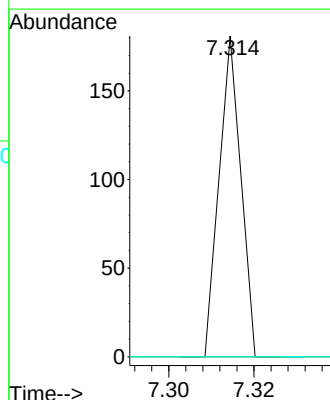
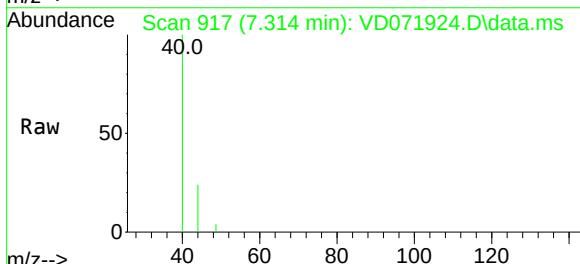
Tgt Ion: 49 Resp: 64

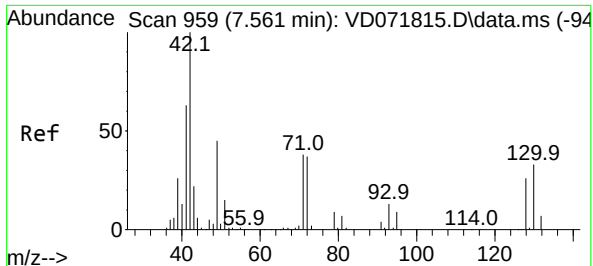
Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.0

130 0.0 52.6 79.0#





#29

Tetrahydrofuran

Concen: 4.790 ug/l

RT: 7.703 min Scan# 91

Delta R.T. 0.141 min

Lab File: VD071924.D

Acq: 08 Feb 2022 18:12

Instrument :

MSVOA_D

ClientSampleId :

TP-25RE

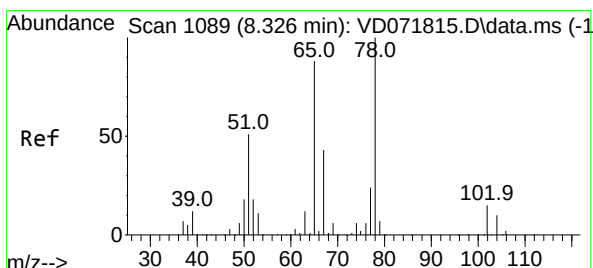
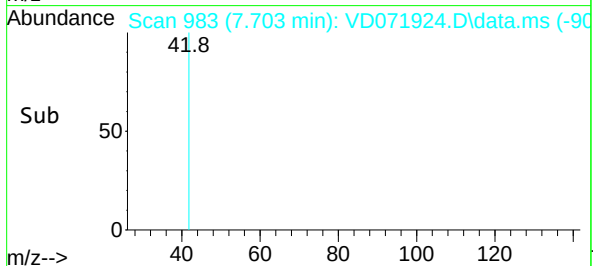
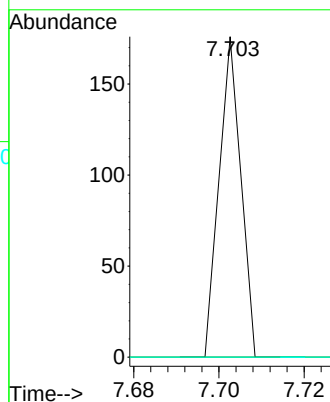
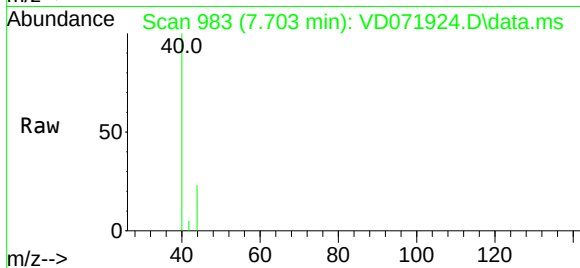
Tgt Ion: 42 Resp: 62

Ion Ratio Lower Upper

42 100

72 0.0 30.7 46.1#

71 0.0 28.6 43.0#



#33

1,2-Dichloroethane-d4

Concen: 76.579 ug/l

RT: 8.326 min Scan# 1089

Delta R.T. -0.000 min

Lab File: VD071924.D

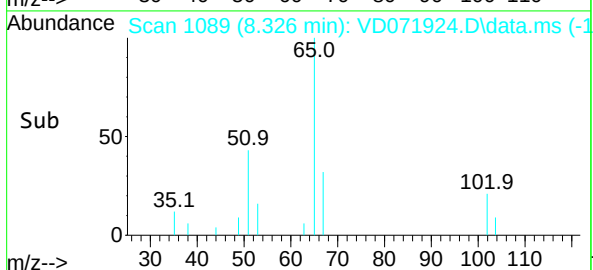
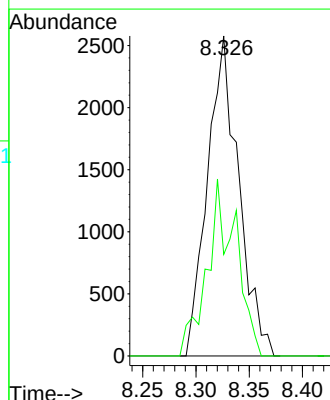
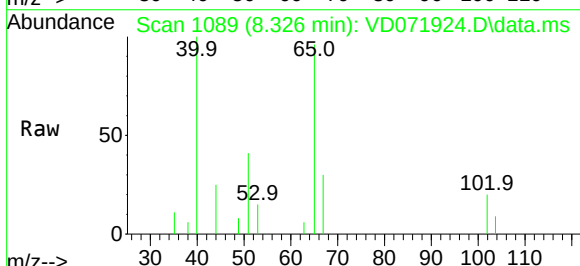
Acq: 08 Feb 2022 18:12

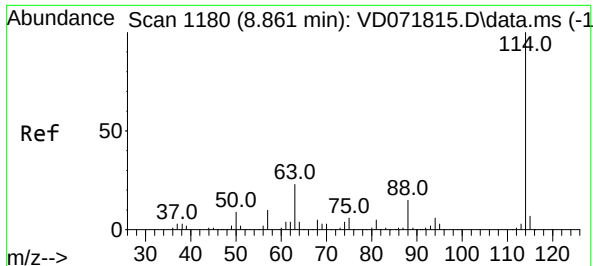
Tgt Ion: 65 Resp: 5250

Ion Ratio Lower Upper

65 100

67 51.1 0.0 101.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.855 min Scan# 1180

Delta R.T. -0.006 min

Lab File: VD071924.D

Acq: 08 Feb 2022 18:12

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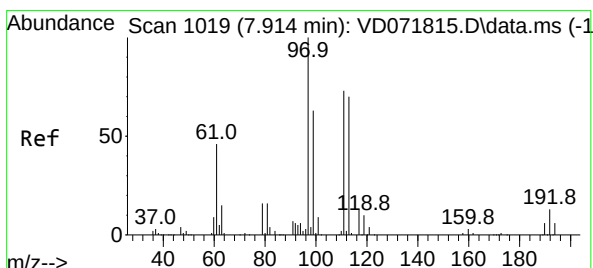
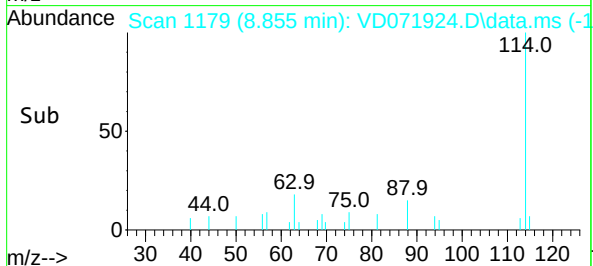
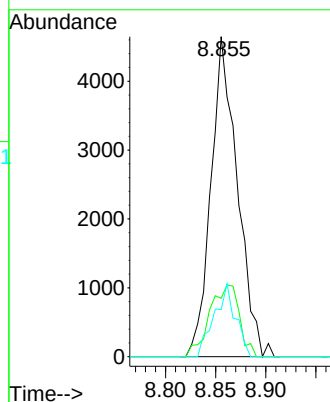
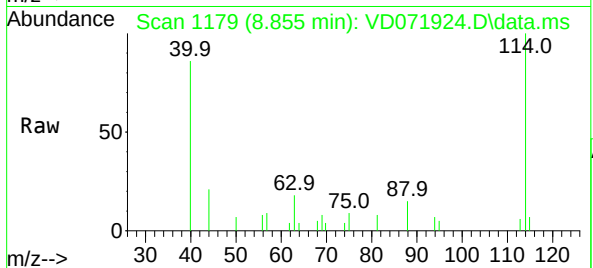
Tgt Ion:114 Resp: 8536

Ion Ratio Lower Upper

114 100

63 18.2 0.0 46.6

88 14.8 0.0 33.2



#35

Dibromofluoromethane

Concen: 48.512 ug/l

RT: 7.914 min Scan# 1019

Delta R.T. -0.000 min

Lab File: VD071924.D

Acq: 08 Feb 2022 18:12

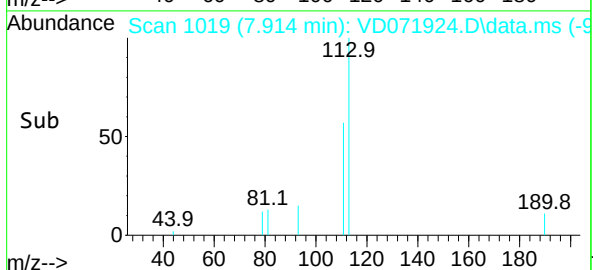
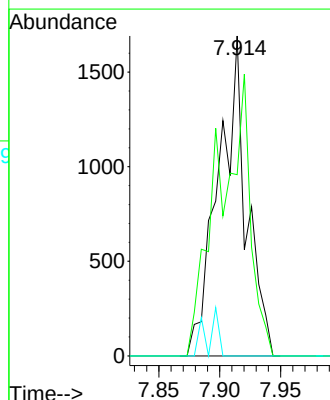
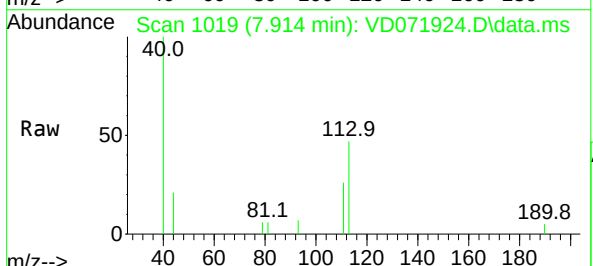
Tgt Ion:113 Resp: 2722

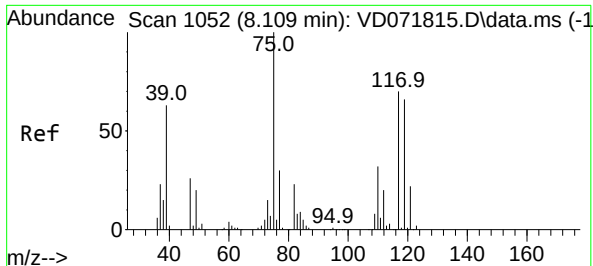
Ion Ratio Lower Upper

113 100

111 32.3 83.8 125.6#

192 0.0 14.6 21.8#





#36

1,1-Dichloropropene

Concen: 1.599 ug/l

RT: 7.997 min Scan# 1052

Delta R.T. -0.118 min

Lab File: VD071924.D

Acq: 08 Feb 2022 18:12

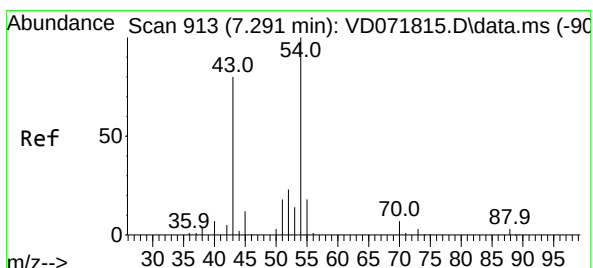
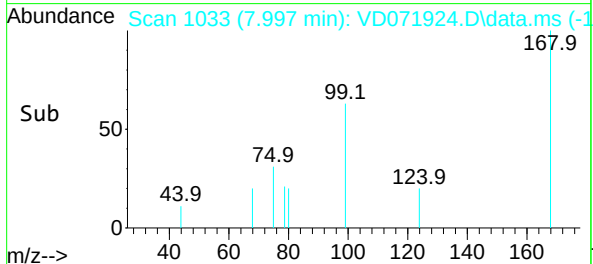
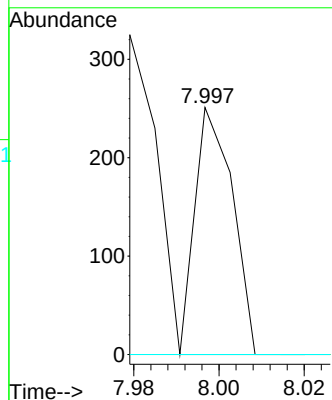
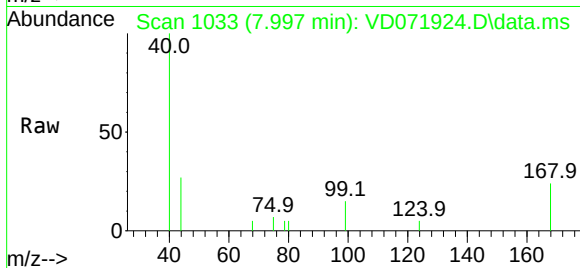
Instrument :

MSVOA_D

ClientSampleId :

TP-25RE

Tgt Ion: 75	Resp:	154
Ion	Ratio	Lower Upper
75	100	
110	0.0	16.4 49.1#
77	0.0	24.2 36.2#



#37

Ethyl Acetate

Concen: 1.273 ug/l

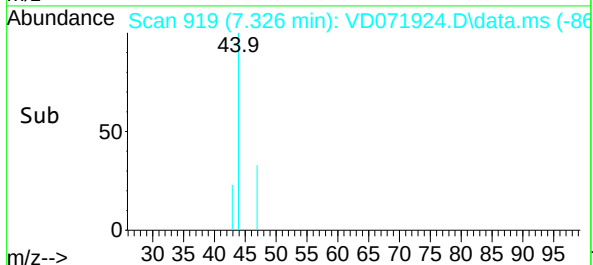
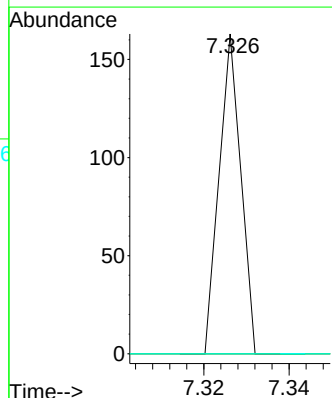
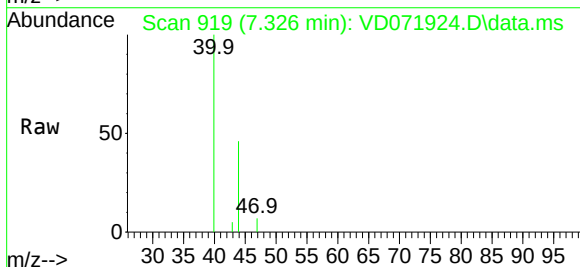
RT: 7.326 min Scan# 919

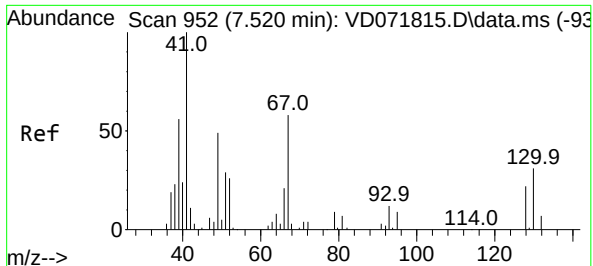
Delta R.T. 0.029 min

Lab File: VD071924.D

Acq: 08 Feb 2022 18:12

Tgt Ion: 43	Resp:	57
Ion	Ratio	Lower Upper
43	100	
61	0.0	9.8 14.8#
70	0.0	6.9 10.3#

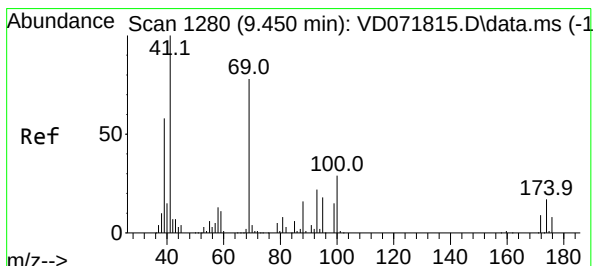
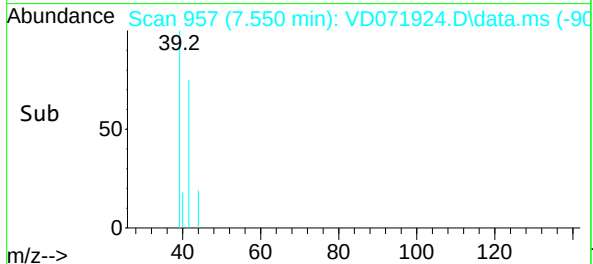
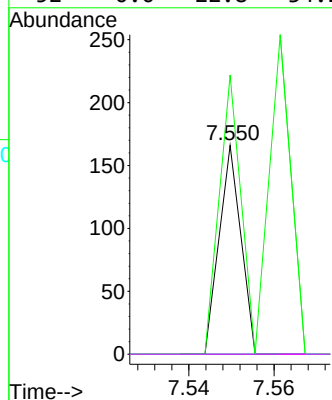
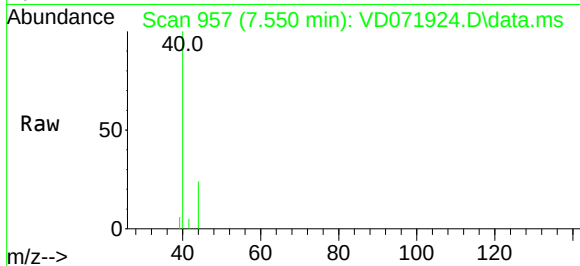




#41
Methacrylonitrile
Concen: 2.329 ug/l
RT: 7.550 min Scan# 91
Delta R.T. 0.029 min
Lab File: VD071924.D
Acq: 08 Feb 2022 18:12

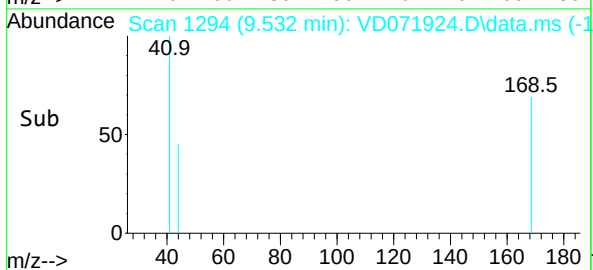
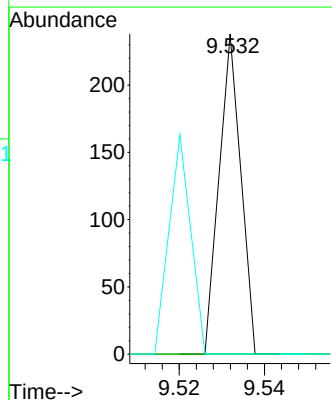
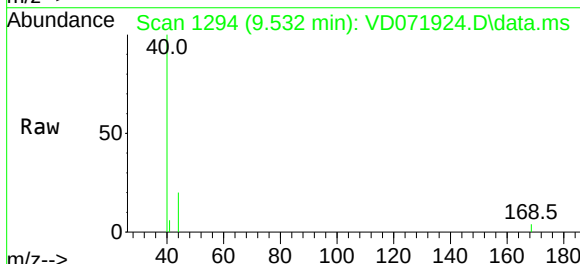
Instrument :
MSVOA_D
ClientSampleId :
TP-25RE

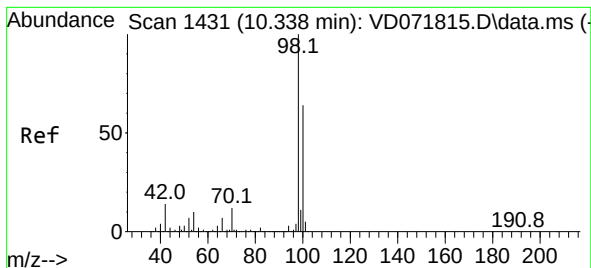
Tgt Ion: 41	Resp:	59	
Ion	Ratio	Lower	Upper
41	100		
39	132.2	44.6	67.0#
67	0.0	48.2	72.4#
52	0.0	22.8	34.2#



#48
Methyl methacrylate
Concen: 1.972 ug/l
RT: 9.532 min Scan# 1294
Delta R.T. 0.082 min
Lab File: VD071924.D
Acq: 08 Feb 2022 18:12

Tgt Ion: 41	Resp:	84	
Ion Ratio	Lower	Upper	
41 100			
69 0.0	56.7	85.1#	
39 69.0	42.7	64.1#	





#50

Toluene-d8

Concen: 51.272 ug/l

RT: 10.338 min Scan# 1431

Delta R.T. -0.000 min

Lab File: VD071924.D

Acq: 08 Feb 2022 18:12

Instrument :

MSVOA_D

ClientSampleId :

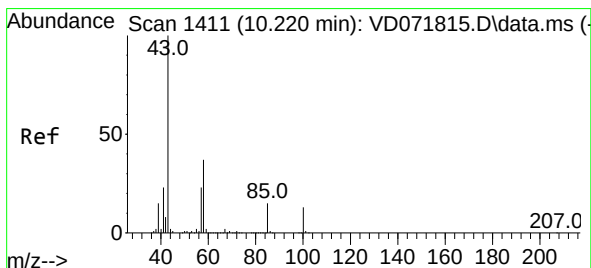
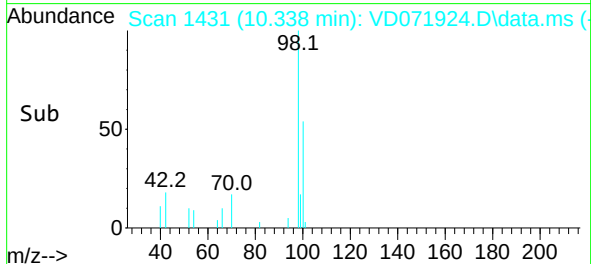
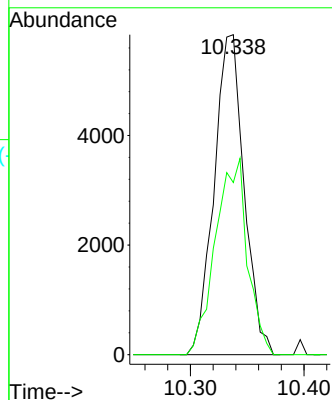
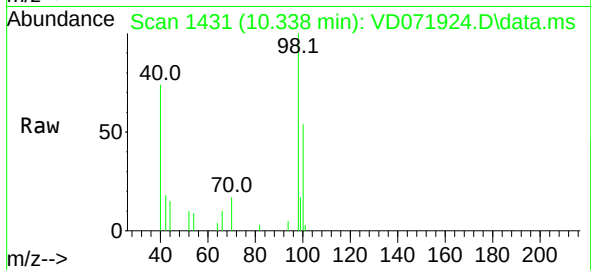
TP-25RE

Tgt Ion: 98 Resp: 10744

Ion Ratio Lower Upper

98 100

100 65.0 52.4 78.6



#51

4-Methyl-2-Pentanone

Concen: 1.805 ug/l

RT: 10.232 min Scan# 1413

Delta R.T. 0.006 min

Lab File: VD071924.D

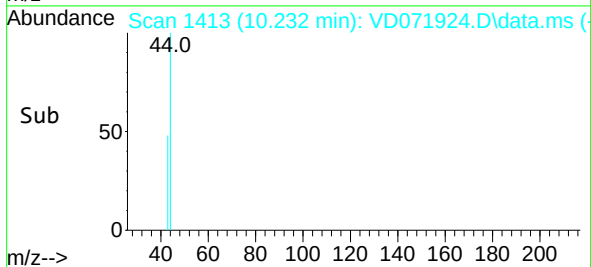
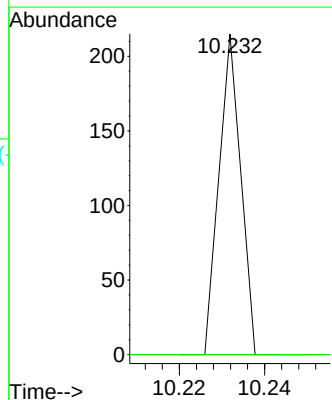
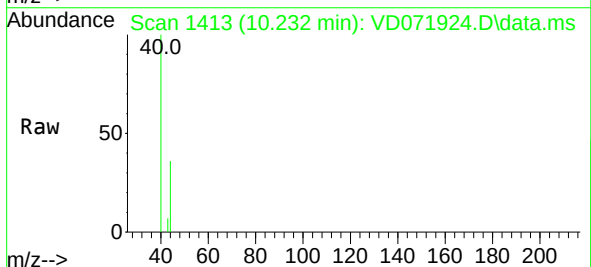
Acq: 08 Feb 2022 18:12

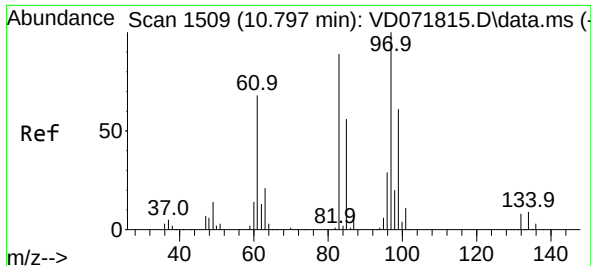
Tgt Ion: 43 Resp: 76

Ion Ratio Lower Upper

43 100

58 0.0 28.6 43.0#

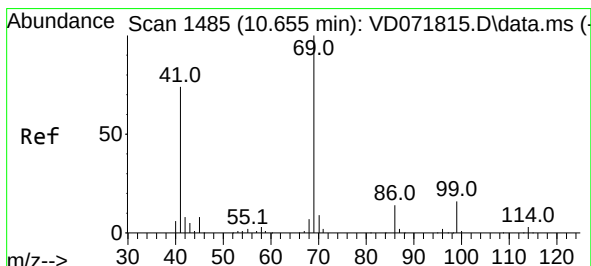
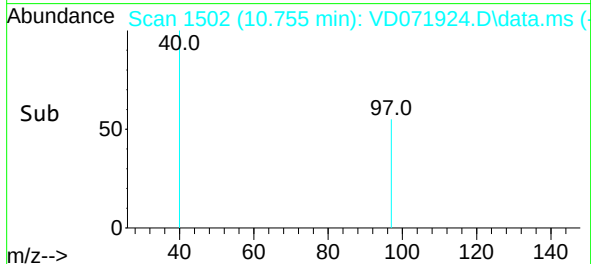
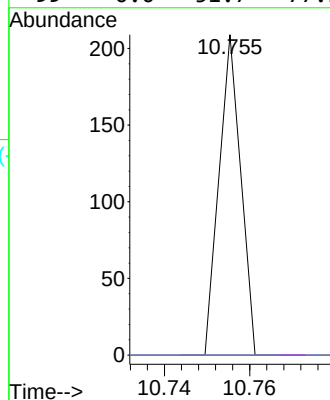
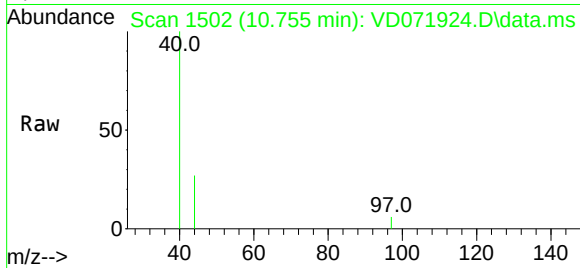




#55
1,1,2-Trichloroethane
Concen: 1.589 ug/l
RT: 10.755 min Scan# 1502
Delta R.T. -0.041 min
Lab File: VD071924.D
Acq: 08 Feb 2022 18:12

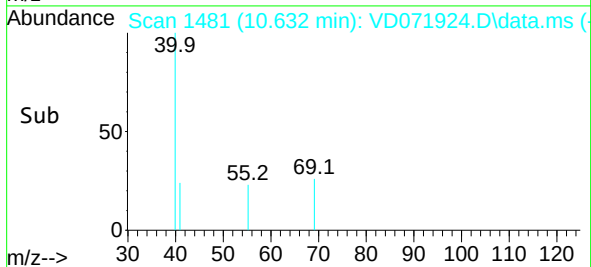
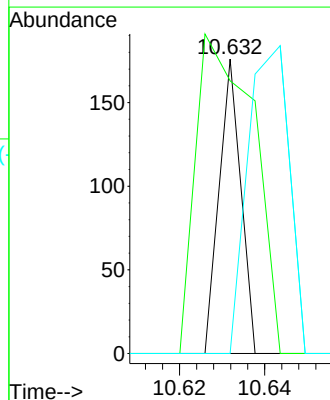
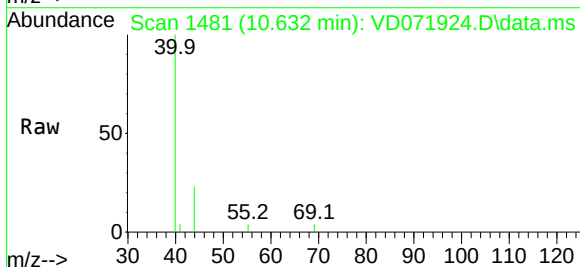
Instrument :
MSVOA_D
ClientSampleId :
TP-25RE

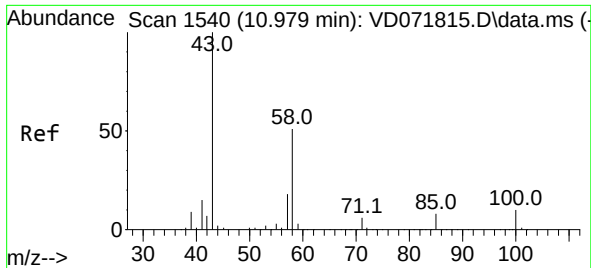
Tgt Ion: 97	Resp:	74	
Ion	Ratio	Lower	Upper
97	100		
83	0.0	69.0	103.4#
85	0.0	42.6	63.8#
99	0.0	51.7	77.5#



#56
Ethyl methacrylate
Concen: 1.075 ug/l
RT: 10.632 min Scan# 1481
Delta R.T. -0.024 min
Lab File: VD071924.D
Acq: 08 Feb 2022 18:12

Tgt Ion: 69	Resp: 62		
Ion Ratio	Lower	Upper	
69 100			
41 287.1	63.0	94.6#	
39 200.0	33.8	50.8#	

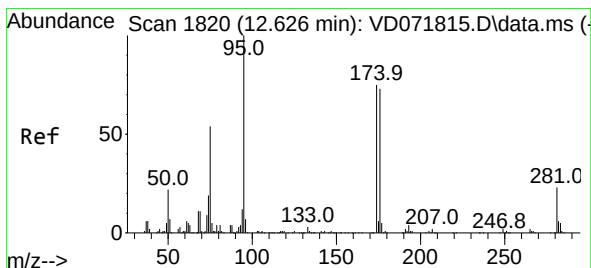
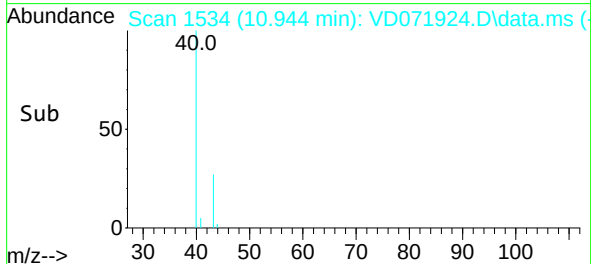
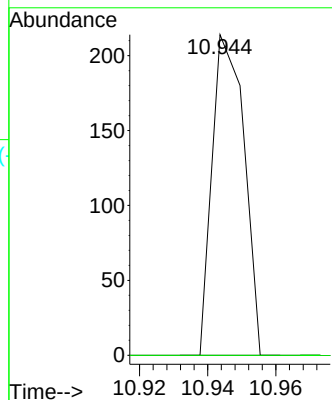
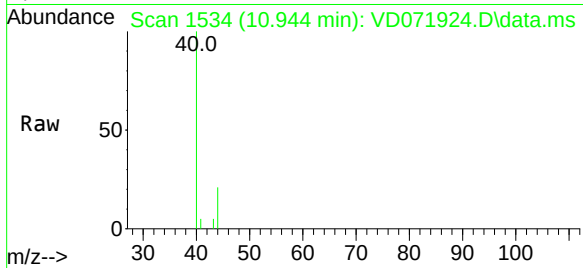




#59
2-Hexanone
Concen: 4.548 ug/l
RT: 10.944 min Scan# 11
Delta R.T. -0.035 min
Lab File: VD071924.D
Acq: 08 Feb 2022 18:12

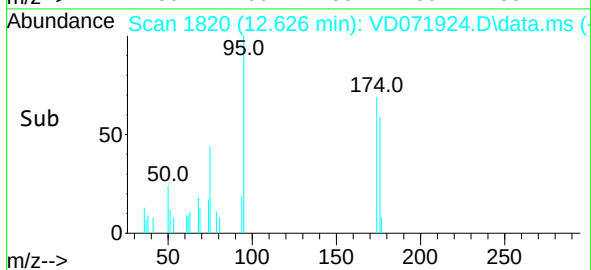
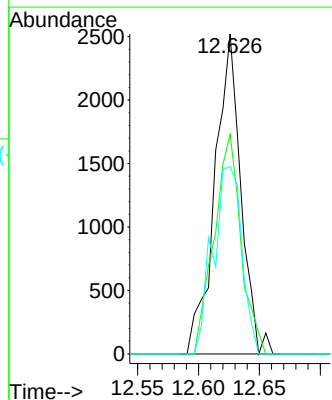
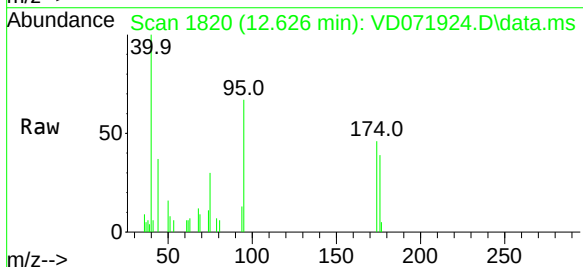
Instrument :
MSVOA_D
ClientSampleId :
TP-25RE

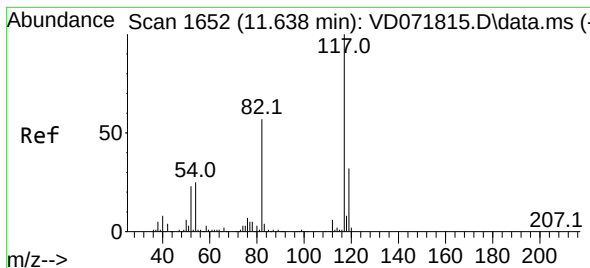
Tgt Ion: 43 Resp: 139
Ion Ratio Lower Upper
43 100
58 0.0 25.3 75.9#



#62
4-Bromofluorobenzene
Concen: 51.177 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VD071924.D
Acq: 08 Feb 2022 18:12

Tgt Ion: 95 Resp: 3745
Ion Ratio Lower Upper
95 100
174 70.8 0.0 152.8
176 65.0 0.0 145.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.638 min Scan# 1

Delta R.T. -0.000 min

Lab File: VD071924.D

Acq: 08 Feb 2022 18:12

Instrument :

MSVOA_D

ClientSampleId :

TP-25RE

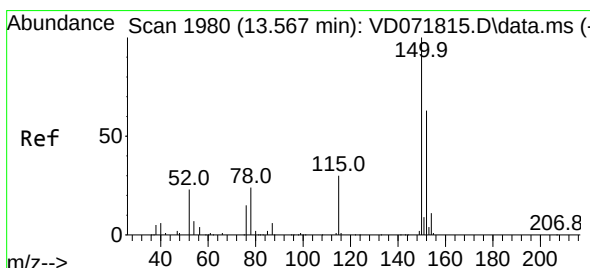
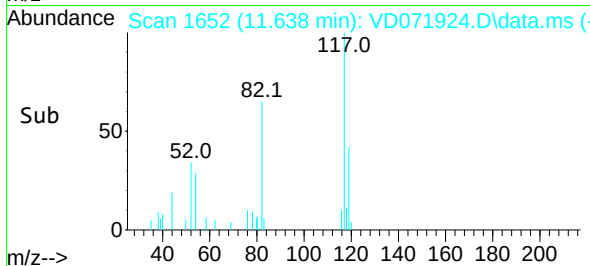
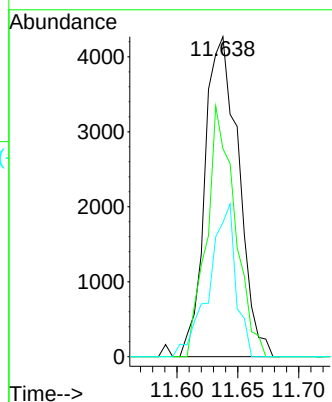
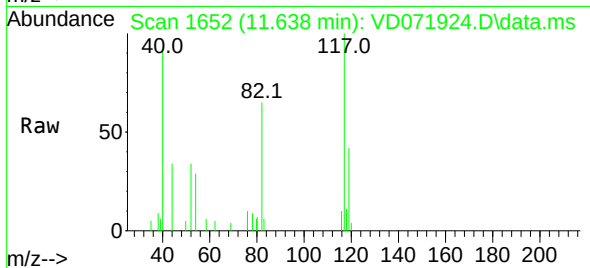
Tgt Ion:117 Resp: 8185

Ion Ratio Lower Upper

117 100

82 65.0 45.3 67.9

119 41.9 26.6 40.0#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.567 min Scan# 1980

Delta R.T. -0.000 min

Lab File: VD071924.D

Acq: 08 Feb 2022 18:12

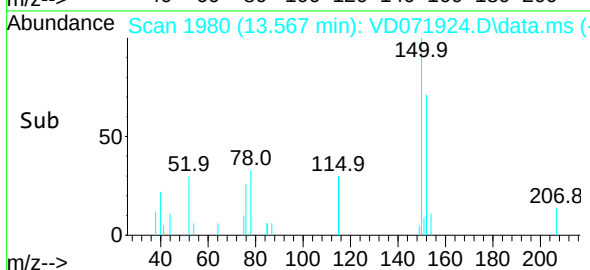
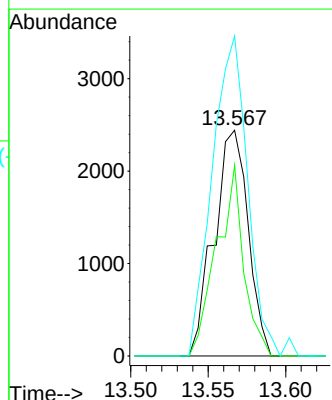
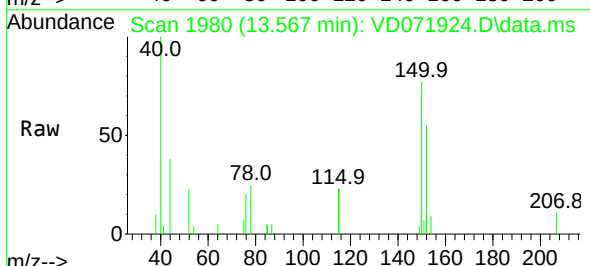
Tgt Ion:152 Resp: 3735

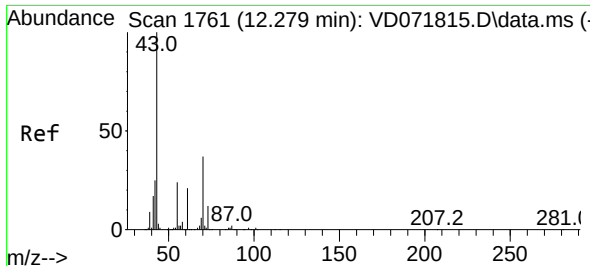
Ion Ratio Lower Upper

152 100

115 66.9 31.3 93.8

150 148.5 0.0 348.6

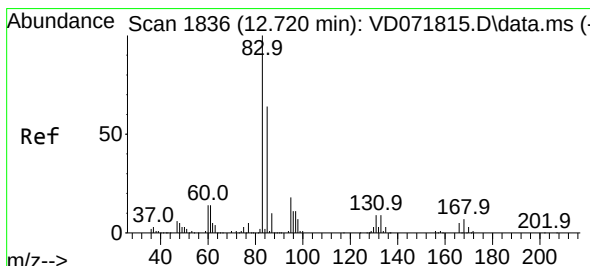
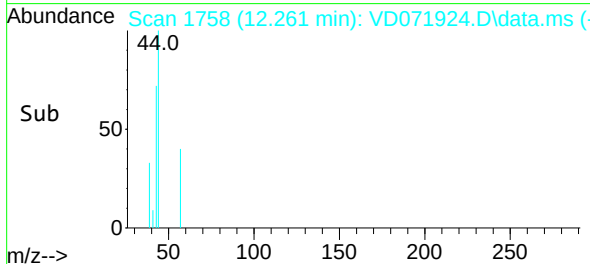
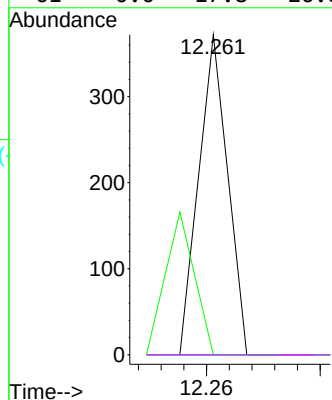
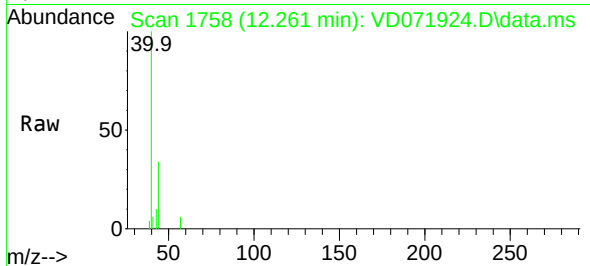




#74
N-amy1 acetate
Concen: 1.842 ug/l
RT: 12.261 min Scan# 11
Delta R.T. -0.018 min
Lab File: VD071924.D
Acq: 08 Feb 2022 18:12

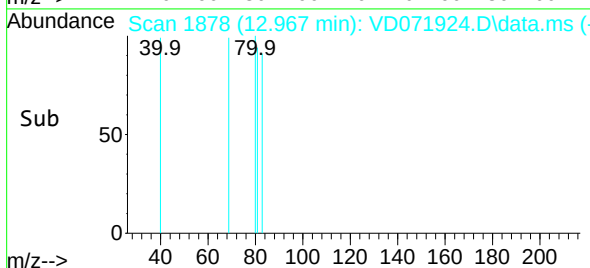
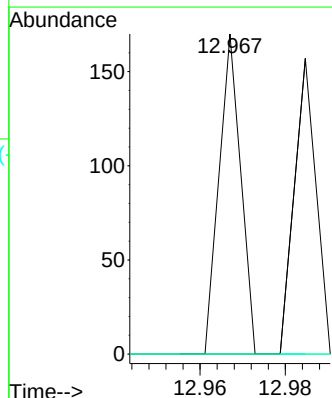
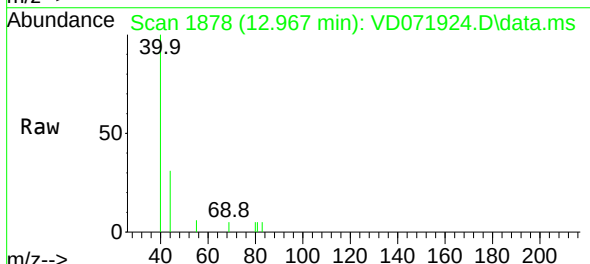
Instrument :
MSVOA_D
ClientSampleId :
TP-25RE

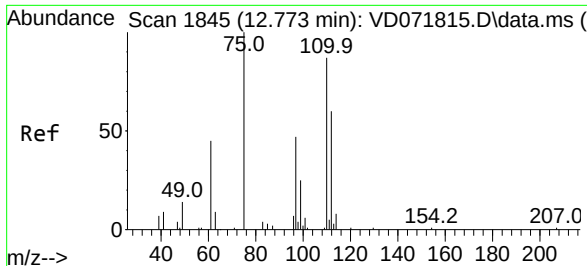
Tgt Ion: 43	Resp:	131
Ion	Ratio	Lower Upper
43	100	
70	45.0	31.3 46.9
55	0.0	20.0 30.0#
61	0.0	17.8 26.8#



#75
1,1,2,2-Tetrachloroethane
Concen: 1.121 ug/l
RT: 12.967 min Scan# 1878
Delta R.T. 0.247 min
Lab File: VD071924.D
Acq: 08 Feb 2022 18:12

Tgt Ion: 83	Resp:	60
Ion	Ratio	Lower Upper
83	100	
131	0.0	5.0 14.9#
85	0.0	32.6 98.0#

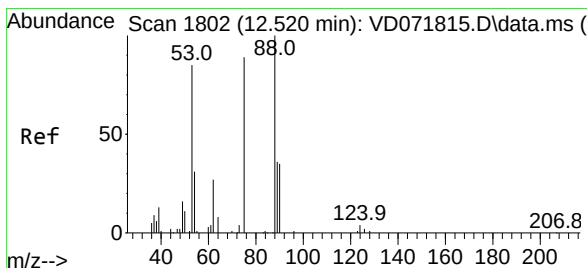
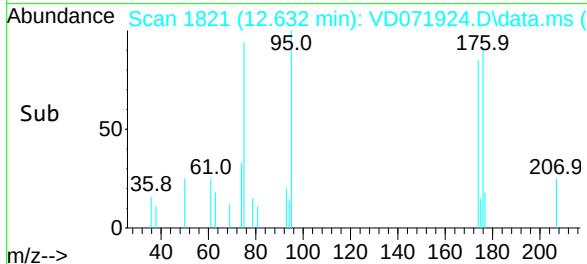
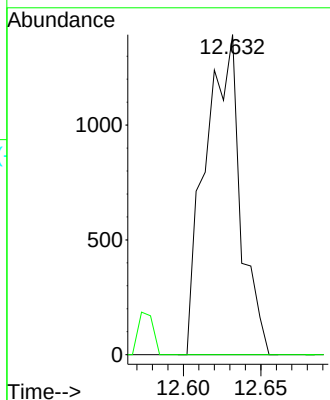
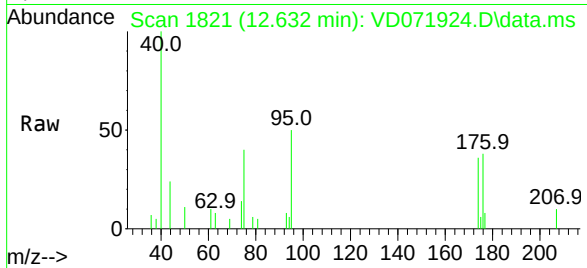




#76
1,2,3-Trichloropropane
Concen: 55.561 ug/l
RT: 12.632 min Scan# 1821
Delta R.T. -0.141 min
Lab File: VD071924.D
Acq: 08 Feb 2022 18:12

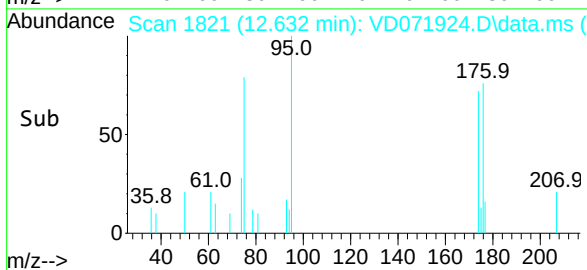
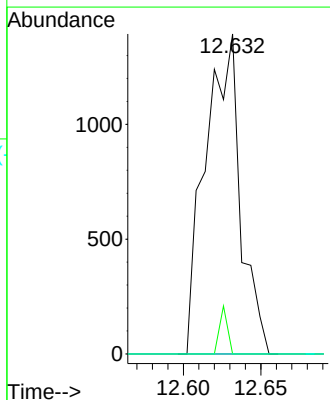
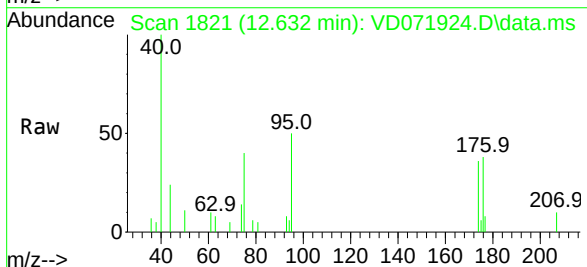
Instrument :
MSVOA_D
ClientSampleId :
TP-25RE

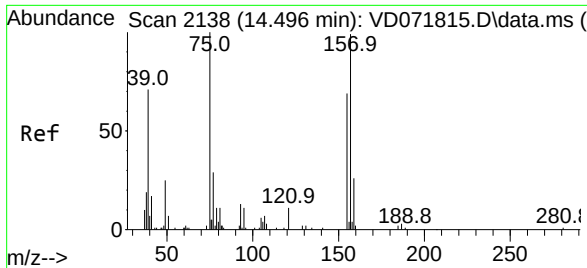
Tgt Ion: 75 Resp: 2187
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0



#81
trans-1,4-Dichloro-2-butene
Concen: 136.611 ug/l
RT: 12.632 min Scan# 1821
Delta R.T. 0.112 min
Lab File: VD071924.D
Acq: 08 Feb 2022 18:12

Tgt Ion: 75 Resp: 2187
Ion Ratio Lower Upper
75 100
53 3.4 86.5 129.7#
89 0.0 33.9 50.9#





#92
 1,2-Dibromo-3-Chloropropane
 Concen: 7.784 ug/l
 RT: 14.673 min Scan# 21
 Delta R.T. 0.182 min
 Lab File: VD071924.D
 Acq: 08 Feb 2022 18:12

Instrument :
 MSVOA_D
 ClientSampleId :
 TP-25RE

Tgt Ion: 75 Resp: 69
 Ion Ratio Lower Upper
 75 100
 155 0.0 36.8 110.3#
 157 0.0 48.4 145.0#

