

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU052623\
 Data File : VU054294.D
 Acq On : 26 May 2023 18:36
 Operator : JC/MD
 Sample : 02936-15DL 5X
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 60BR-20230524DL

Quant Time: May 30 00:05:16 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U052523W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 26 06:40:51 2023
 Response via : Initial Calibration

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

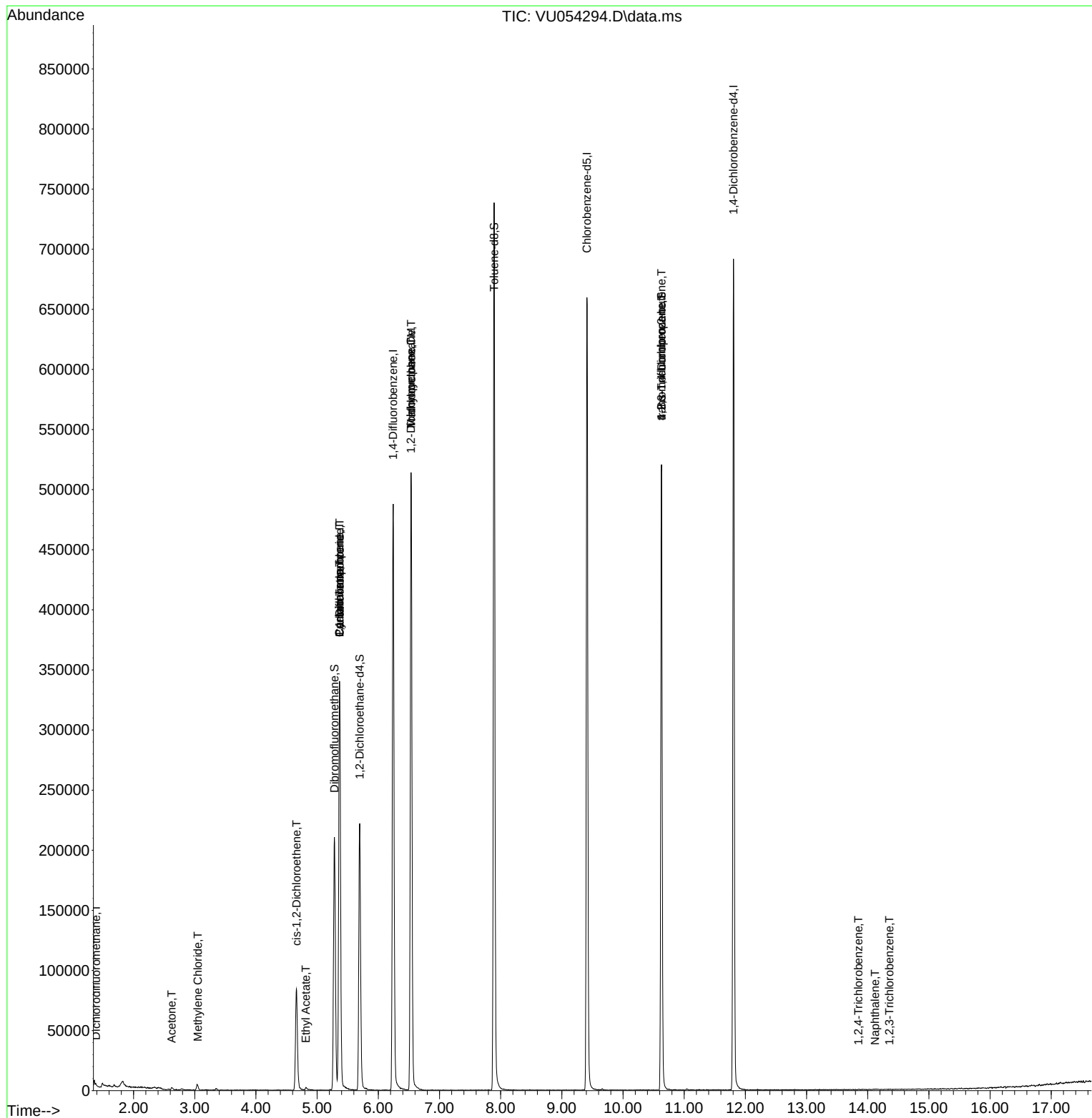
Internal Standards						
1) Pentafluorobenzene	5.369	168	249112	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.243	114	401625	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.411	117	382234	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.806	152	189164	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.697	65	166487	50.982	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 101.960%	
35) Dibromofluoromethane	5.282	113	138235	53.447	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 106.900%	
50) Toluene-d8	7.893	98	503958	51.227	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 102.460%	
62) 4-Bromofluorobenzene	10.629	95	175556	46.023	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 92.040%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.385	85	886	0.319	ug/l	78
16) Acetone	2.620	43	1106	0.591	ug/l	98
20) Methylene Chloride	3.051	84	2328	0.689	ug/l	96
27) cis-1,2-Dichloroethene	4.665	96	46241	14.490	ug/l	95
31) Cyclohexane	5.366	56	4513	0.979	ug/l #	1
36) 1,1-Dichloropropene	5.366	75	18990	4.675	ug/l #	48
37) Ethyl Acetate	4.816	43	3121	0.630	ug/l #	75
38) Carbon Tetrachloride	5.369	117	23934	5.756	ug/l #	17
39) Methylcyclohexane	6.536	83	2251	0.489	ug/l #	1
44) Trichloroethene	6.536	130	181282	55.967	ug/l	92
45) 1,2-Dichloropropane	6.533	63	612	0.202	ug/l #	1
76) 1,2,3-Trichloropropane	10.629	75	91063	16.494	ug/l #	45
81) trans-1,4-Dichloro-2-b...	10.629	75	91063	62.809	ug/l #	15
93) 1,2,4-Trichlorobenzene	13.844	180	71	1.659	ug/l #	60
95) Naphthalene	14.118	128	217	2.006	ug/l #	69
96) 1,2,3-Trichlorobenzene	14.352	180	103	1.278	ug/l #	43

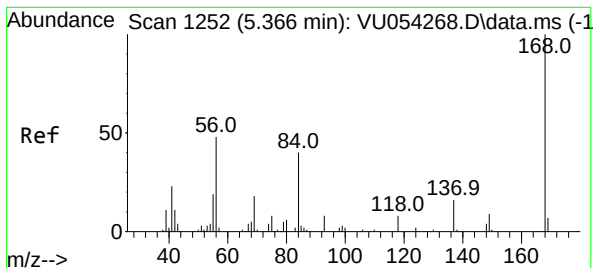
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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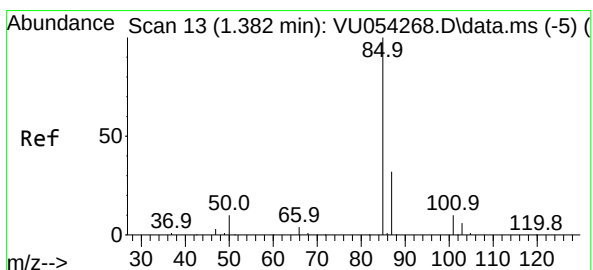
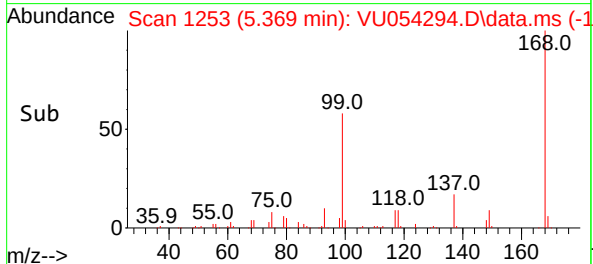
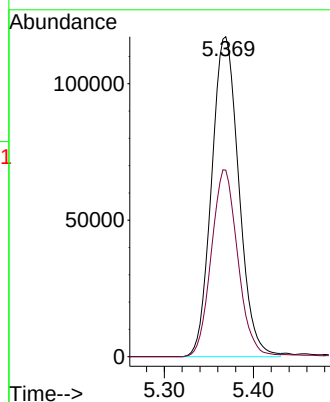
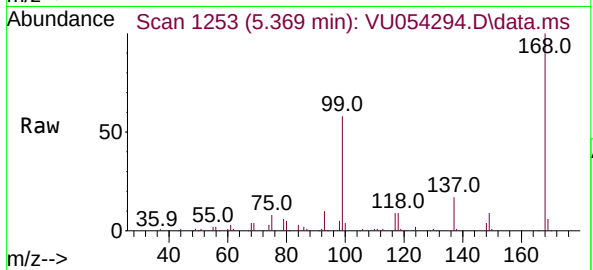




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.369 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU054294.D
Acq: 26 May 2023 18:36

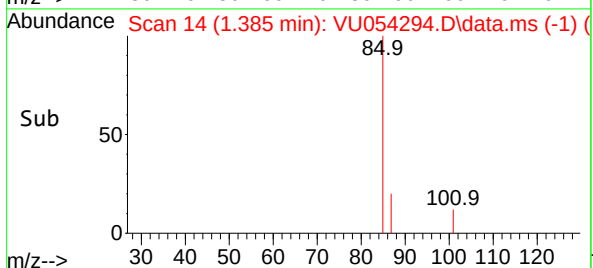
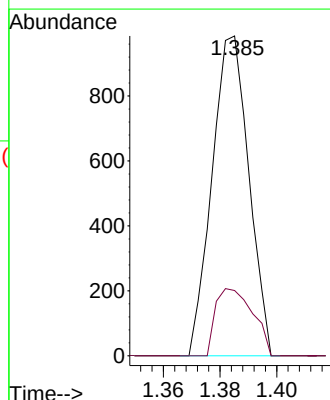
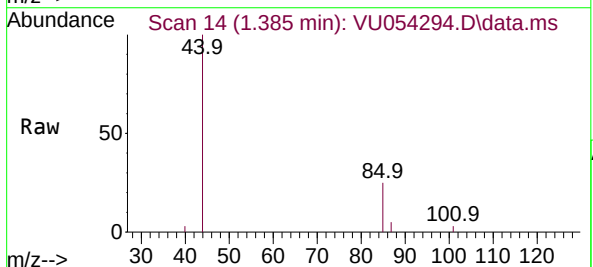
Instrument :
MSVOA_U
ClientSampleId :
60BR-20230524DL

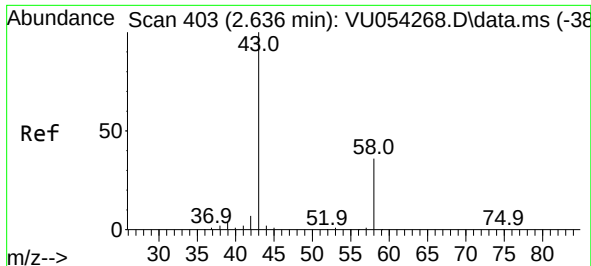
Tgt Ion:168 Resp: 249112
Ion Ratio Lower Upper
168 100
99 58.3 39.3 58.9



#2
Dichlorodifluoromethane
Concen: 0.319 ug/l
RT: 1.385 min Scan# 14
Delta R.T. 0.003 min
Lab File: VU054294.D
Acq: 26 May 2023 18:36

Tgt Ion: 85 Resp: 886
Ion Ratio Lower Upper
85 100
87 20.4 16.4 49.2





#16

Acetone

Concen: 0.591 ug/l

RT: 2.620 min Scan# 398

Delta R.T. -0.016 min

Lab File: VU054294.D

Acq: 26 May 2023 18:36

Instrument :

MSVOA_U

ClientSampleId :

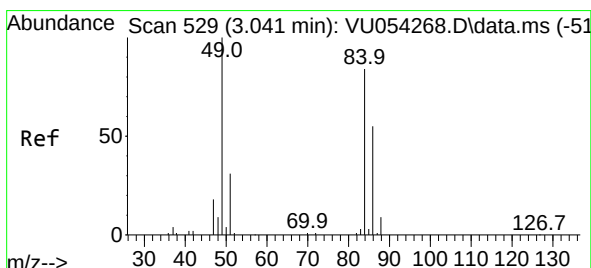
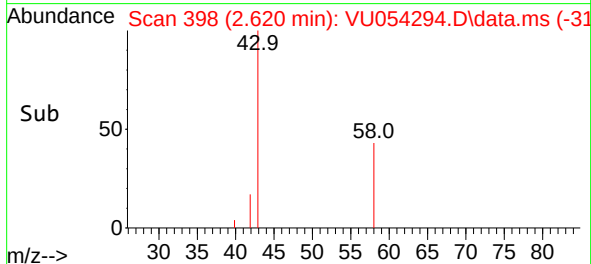
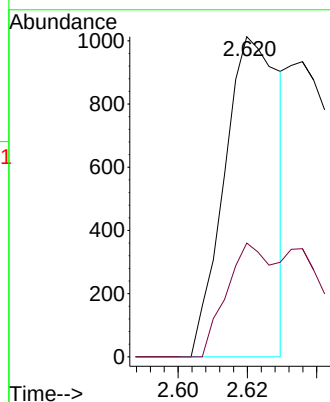
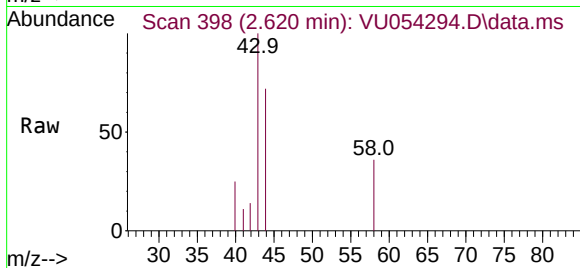
60BR-20230524DL

Tgt Ion: 43 Resp: 1106

Ion Ratio Lower Upper

43 100

58 35.5 27.5 41.3



#20

Methylene Chloride

Concen: 0.689 ug/l

RT: 3.051 min Scan# 532

Delta R.T. 0.010 min

Lab File: VU054294.D

Acq: 26 May 2023 18:36

Tgt Ion: 84 Resp: 2328

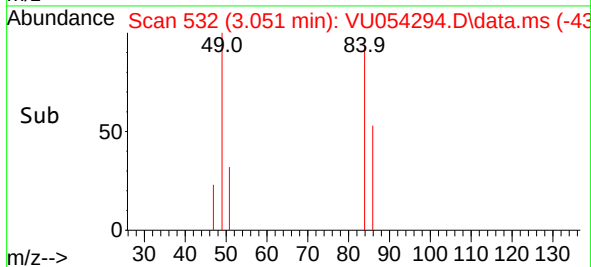
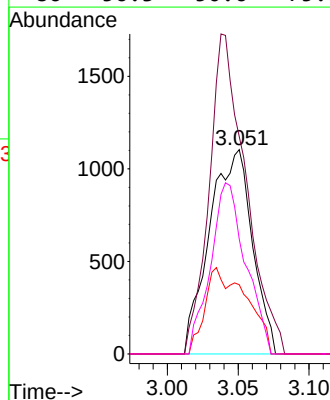
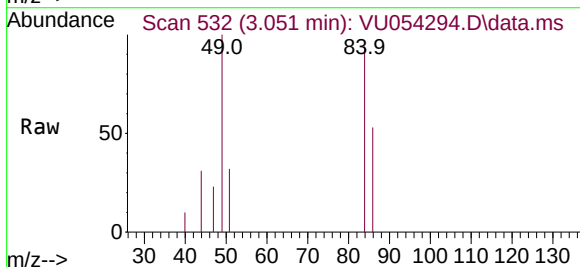
Ion Ratio Lower Upper

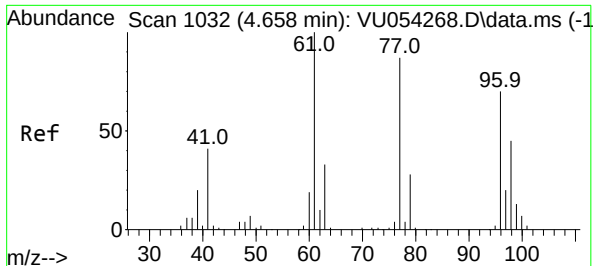
84 100

49 106.4 86.6 129.8

51 33.9 26.6 40.0

86 56.3 50.6 75.8

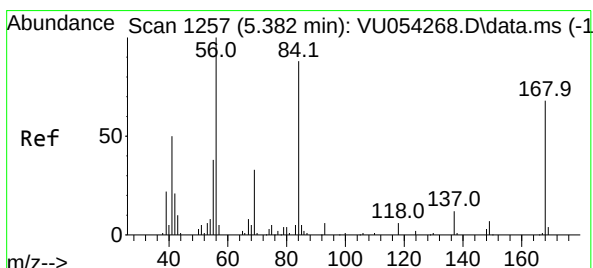
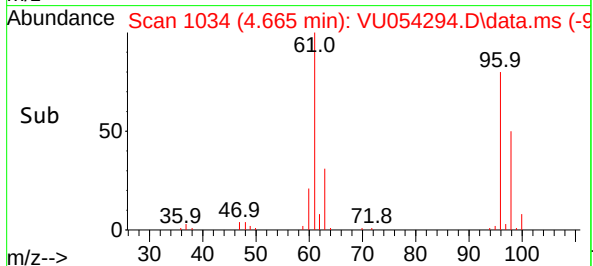
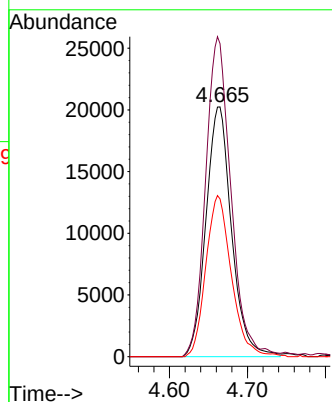
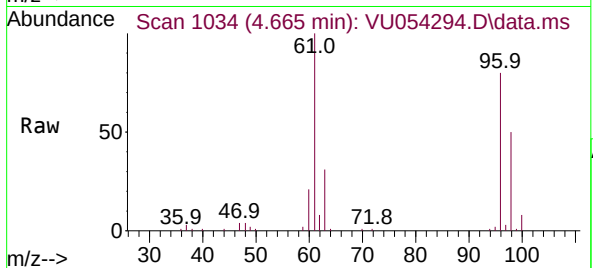




#27
 cis-1,2-Dichloroethene
 Concen: 14.490 ug/l
 RT: 4.665 min Scan# 1034
 Delta R.T. 0.007 min
 Lab File: VU054294.D
 Acq: 26 May 2023 18:36

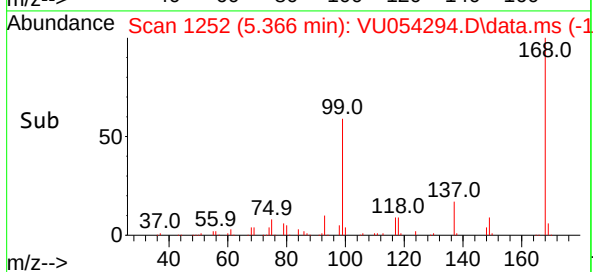
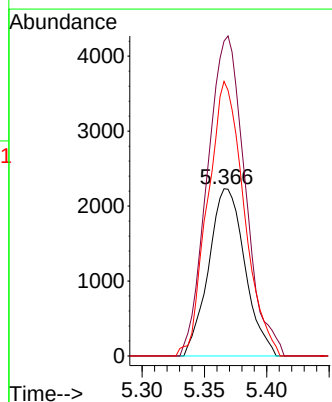
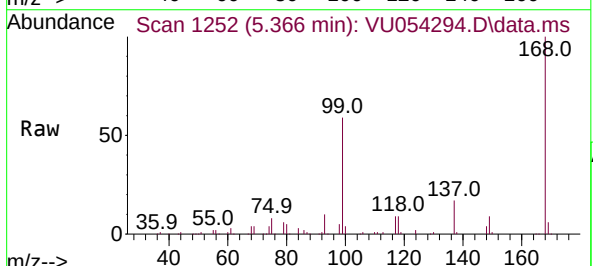
Instrument :
 MSVOA_U
 ClientSampleId :
 60BR-20230524DL

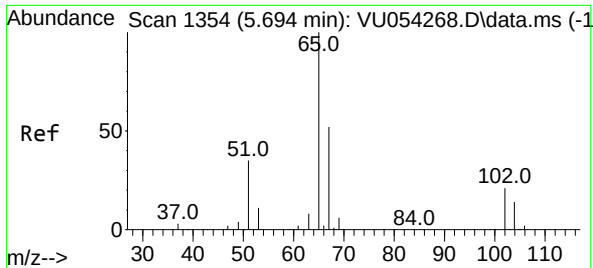
Tgt Ion:	96	Resp:	46241
Ion	Ratio	Lower	Upper
96	100		
61	126.3	0.0	271.6
98	64.3	0.0	128.2



#31
 Cyclohexane
 Concen: 0.979 ug/l
 RT: 5.366 min Scan# 1252
 Delta R.T. -0.016 min
 Lab File: VU054294.D
 Acq: 26 May 2023 18:36

Tgt Ion:	56	Resp:	4513
Ion	Ratio	Lower	Upper
56	100		
69	188.3	27.8	41.8#
84	164.2	74.2	111.4#





#33

1,2-Dichloroethane-d4

Concen: 50.982 ug/l

RT: 5.697 min Scan# 1

Delta R.T. 0.003 min

Lab File: VU054294.D

Acq: 26 May 2023 18:36

Instrument :

MSVOA_U

ClientSampleId :

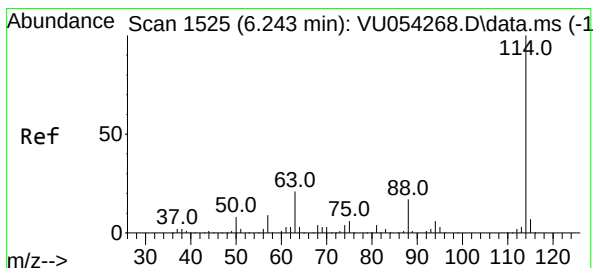
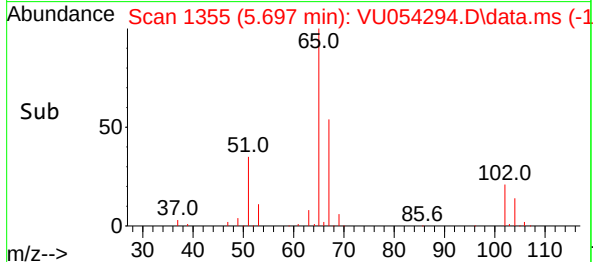
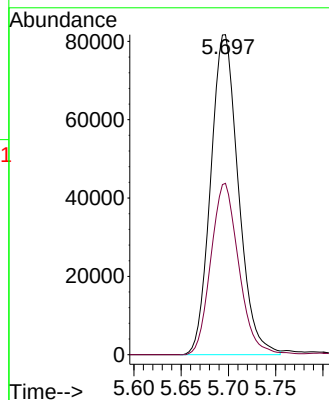
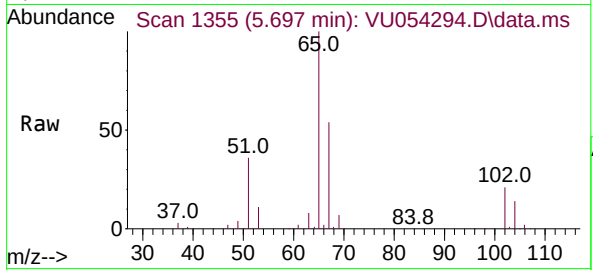
60BR-20230524DL

Tgt Ion: 65 Resp: 166487

Ion Ratio Lower Upper

65 100

67 54.0 0.0 108.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.243 min Scan# 1525

Delta R.T. 0.000 min

Lab File: VU054294.D

Acq: 26 May 2023 18:36

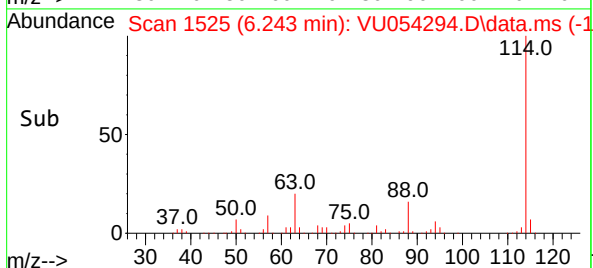
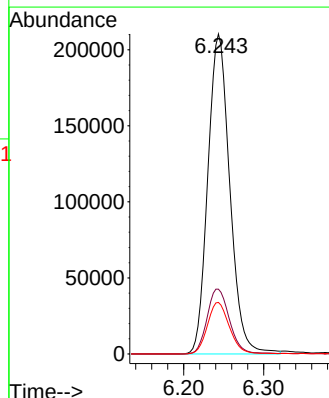
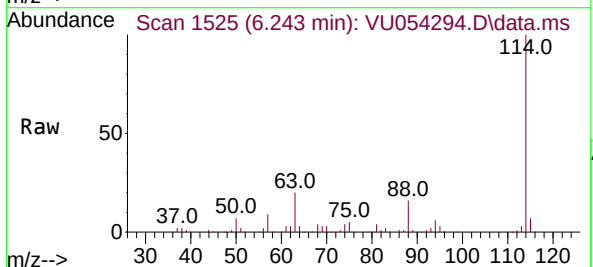
Tgt Ion: 114 Resp: 401625

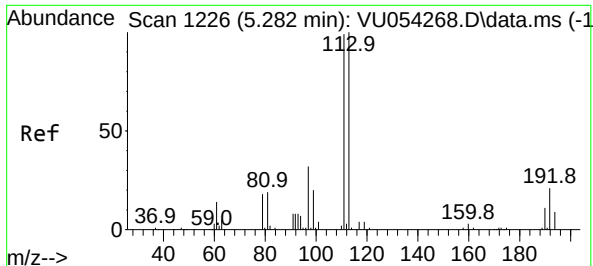
Ion Ratio Lower Upper

114 100

63 20.3 0.0 37.8

88 16.1 0.0 29.2





#35

Dibromofluoromethane

Concen: 53.447 ug/l

RT: 5.282 min Scan# 11

Delta R.T. 0.000 min

Lab File: VU054294.D

Acq: 26 May 2023 18:36

Instrument :

MSVOA_U

ClientSampleId :

60BR-20230524DL

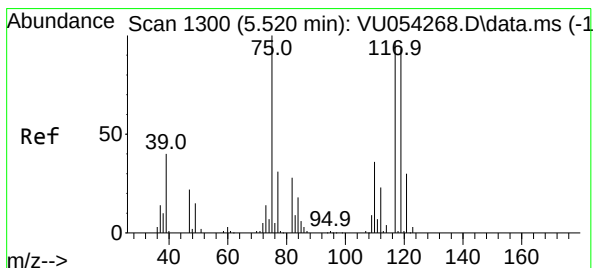
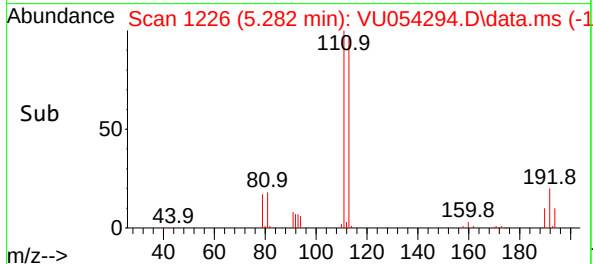
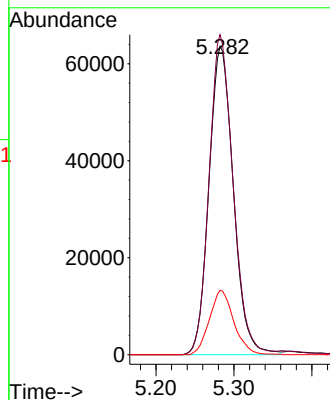
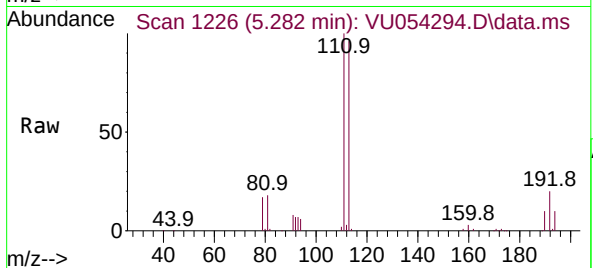
Tgt Ion:113 Resp: 138235

Ion Ratio Lower Upper

113 100

111 102.1 82.1 123.1

192 21.0 18.0 27.0



#36

1,1-Dichloropropene

Concen: 4.675 ug/l

RT: 5.366 min Scan# 1252

Delta R.T. -0.154 min

Lab File: VU054294.D

Acq: 26 May 2023 18:36

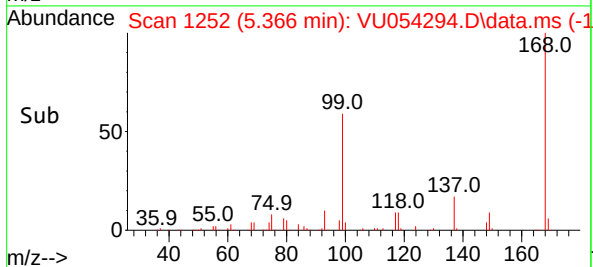
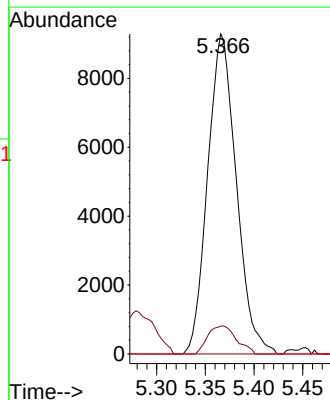
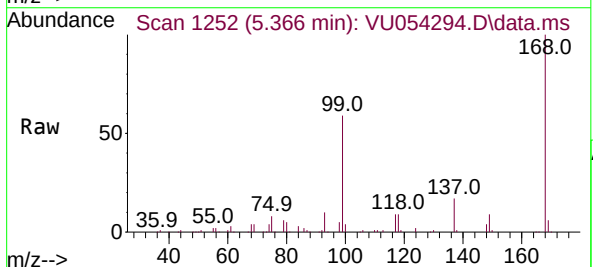
Tgt Ion: 75 Resp: 18990

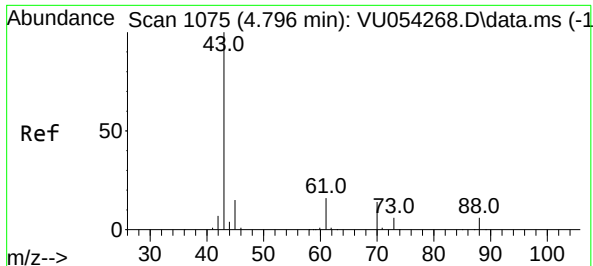
Ion Ratio Lower Upper

75 100

110 8.7 18.4 55.2#

77 0.0 25.1 37.7#





#37

Ethyl Acetate

Concen: 0.630 ug/l

RT: 4.816 min Scan# 1081

Delta R.T. 0.020 min

Lab File: VU054294.D

Acq: 26 May 2023 18:36

Instrument :

MSVOA_U

ClientSampleId :

60BR-20230524DL

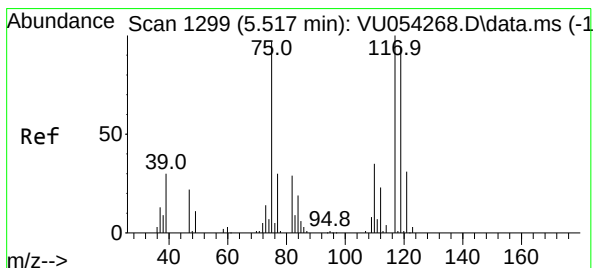
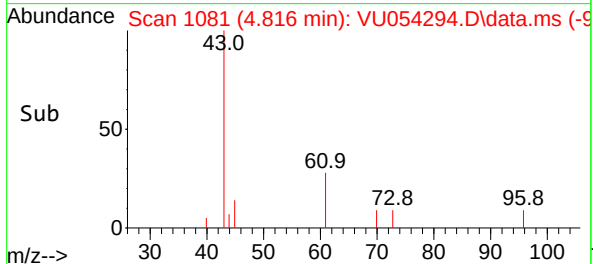
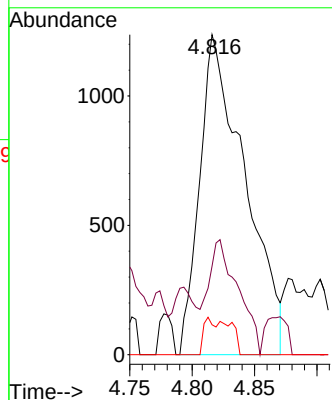
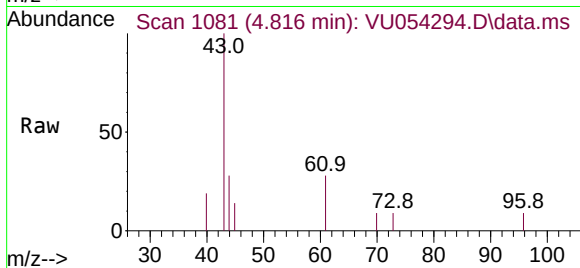
Tgt Ion: 43 Resp: 3121

Ion Ratio Lower Upper

43 100

61 0.0 9.5 14.3#

70 3.0 7.5 11.3#



#38

Carbon Tetrachloride

Concen: 5.756 ug/l

RT: 5.369 min Scan# 1253

Delta R.T. -0.148 min

Lab File: VU054294.D

Acq: 26 May 2023 18:36

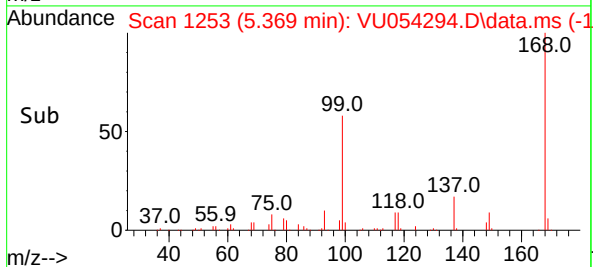
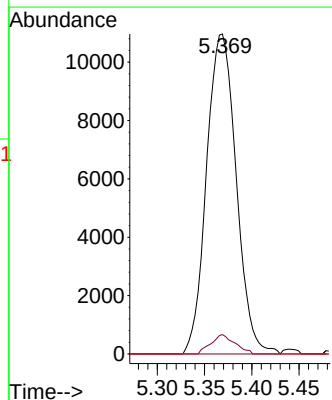
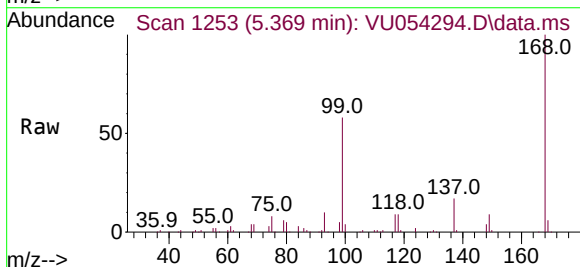
Tgt Ion: 117 Resp: 23934

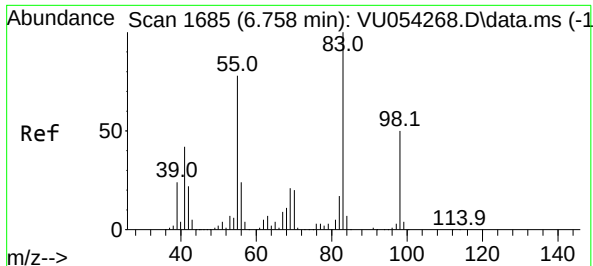
Ion Ratio Lower Upper

117 100

119 6.1 76.8 115.2#

121 0.0 24.7 37.1#





#39

Methylcyclohexane

Concen: 0.489 ug/l

RT: 6.536 min Scan# 1

Delta R.T. -0.222 min

Lab File: VU054294.D

Acq: 26 May 2023 18:36

Instrument :

MSVOA_U

ClientSampleId :

60BR-20230524DL

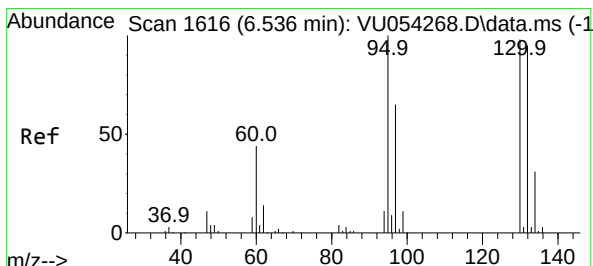
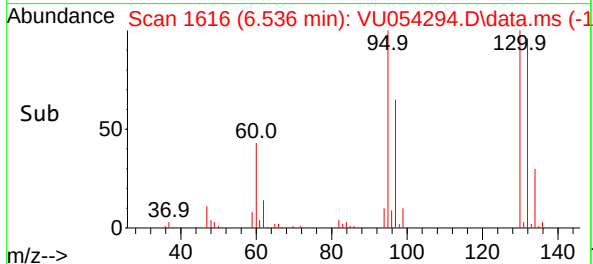
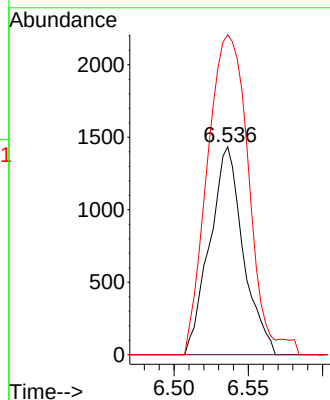
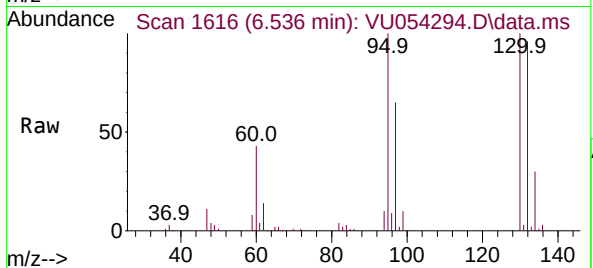
Tgt Ion: 83 Resp: 2251

Ion Ratio Lower Upper

83 100

55 0.0 55.3 82.9#

98 154.0 37.3 55.9#



#44

Trichloroethene

Concen: 55.967 ug/l

RT: 6.536 min Scan# 1616

Delta R.T. 0.000 min

Lab File: VU054294.D

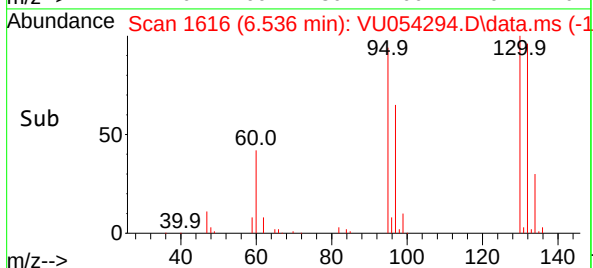
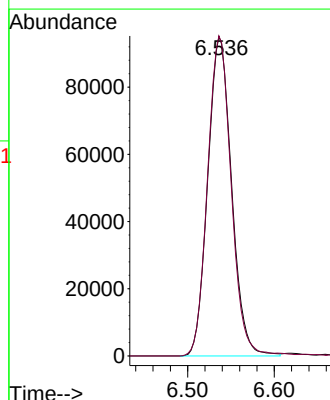
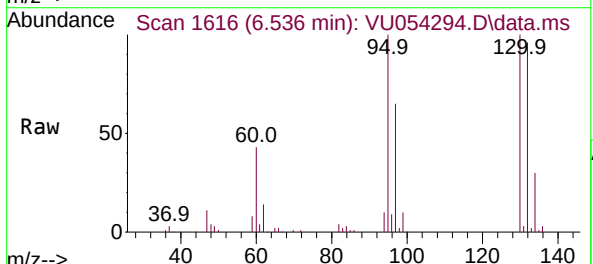
Acq: 26 May 2023 18:36

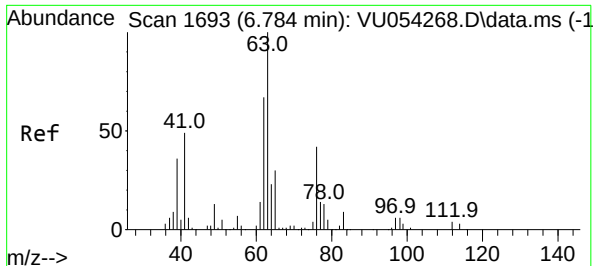
Tgt Ion:130 Resp: 181282

Ion Ratio Lower Upper

130 100

95 100.2 0.0 184.6





#45

1,2-Dichloropropane

Concen: 0.202 ug/l

RT: 6.533 min Scan# 1

Delta R.T. -0.251 min

Lab File: VU054294.D

Acq: 26 May 2023 18:36

Instrument :

MSVOA_U

ClientSampleId :

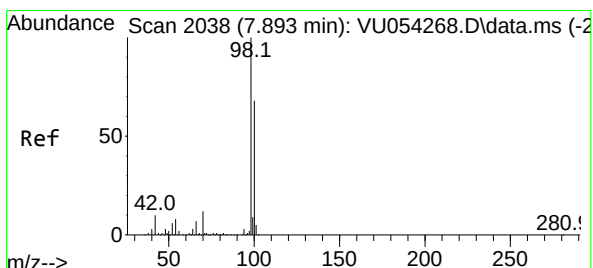
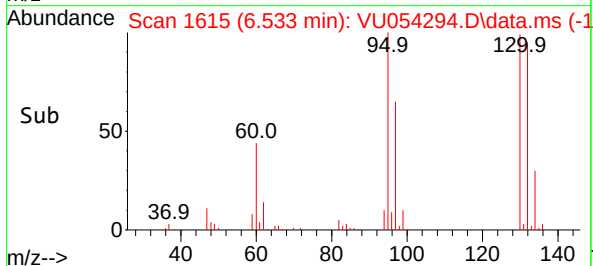
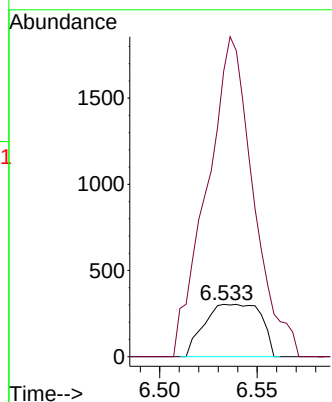
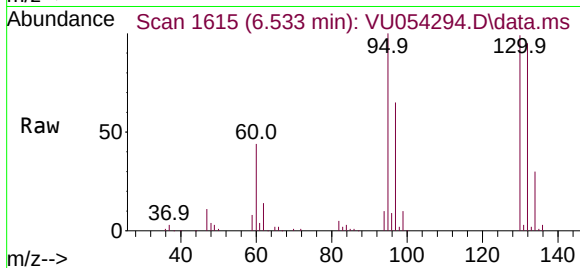
60BR-20230524DL

Tgt Ion: 63 Resp: 612

Ion Ratio Lower Upper

63 100

65 479.9 25.0 37.4#



#50

Toluene-d8

Concen: 51.227 ug/l

RT: 7.893 min Scan# 2038

Delta R.T. -0.000 min

Lab File: VU054294.D

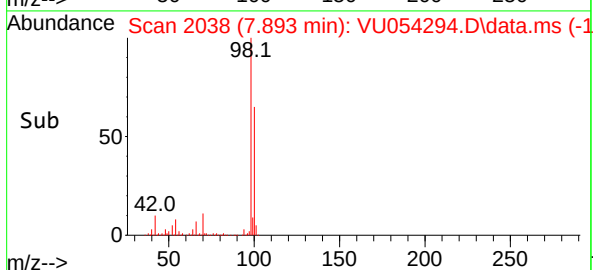
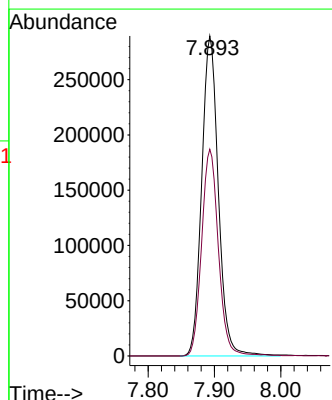
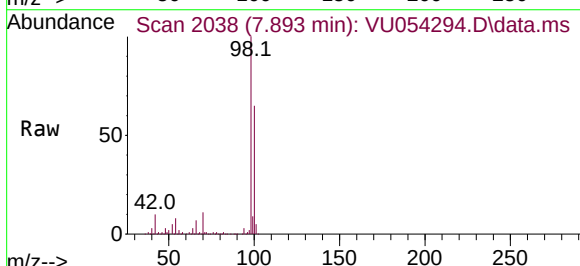
Acq: 26 May 2023 18:36

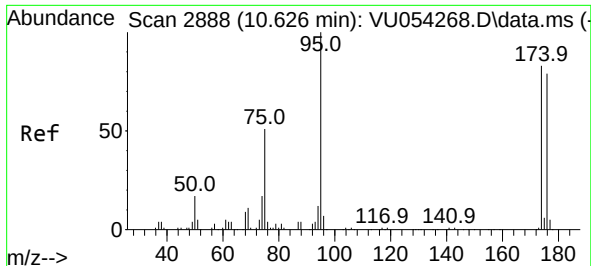
Tgt Ion: 98 Resp: 503958

Ion Ratio Lower Upper

98 100

100 65.2 51.7 77.5

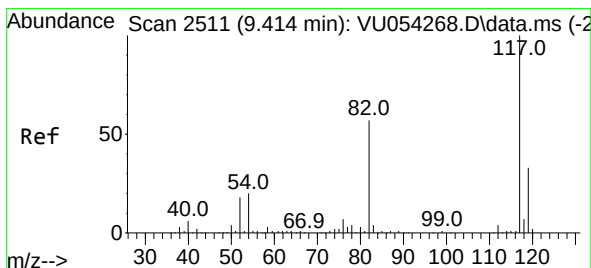
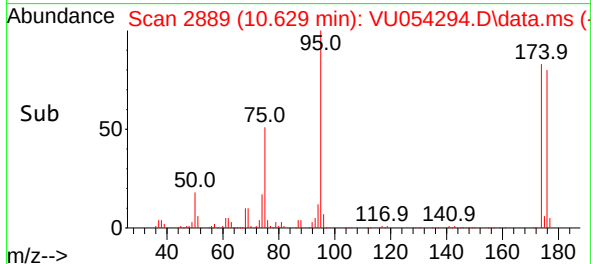
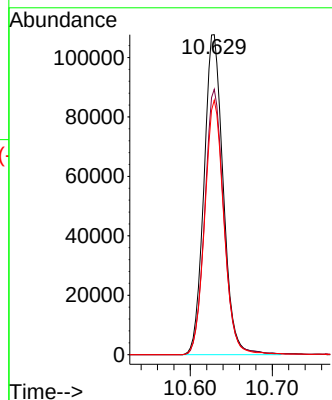
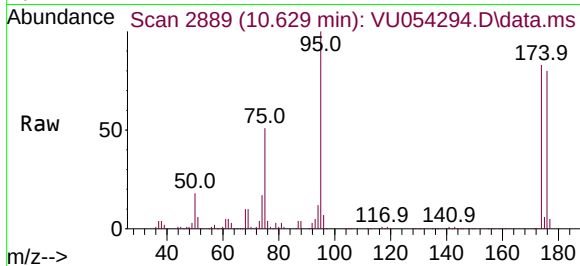




#62
4-Bromofluorobenzene
Concen: 46.023 ug/l
RT: 10.629 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU054294.D
Acq: 26 May 2023 18:36

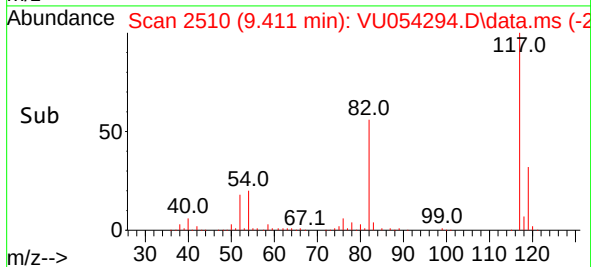
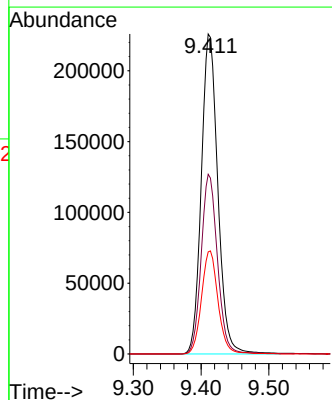
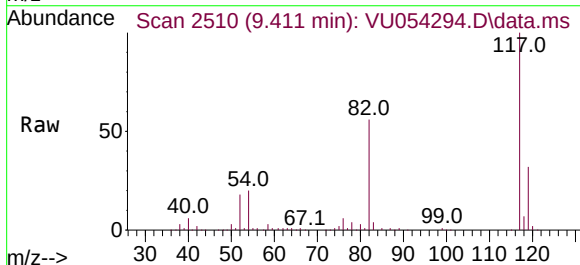
Instrument :
MSVOA_U
ClientSampleId :
60BR-20230524DL

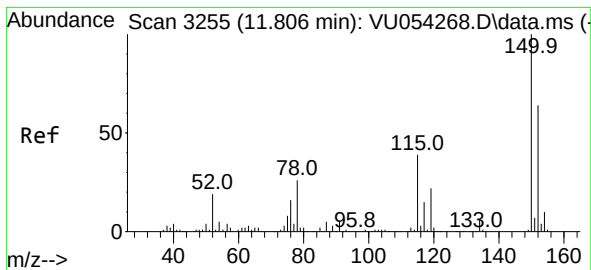
Tgt Ion: 95 Resp: 175556
Ion Ratio Lower Upper
95 100
174 82.4 0.0 182.0
176 79.4 0.0 177.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.411 min Scan# 2510
Delta R.T. -0.003 min
Lab File: VU054294.D
Acq: 26 May 2023 18:36

Tgt Ion: 117 Resp: 382234
Ion Ratio Lower Upper
117 100
82 56.2 41.7 62.5
119 31.9 25.7 38.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.806 min Scan# 31

Delta R.T. -0.000 min

Lab File: VU054294.D

Acq: 26 May 2023 18:36

Instrument :

MSVOA_U

ClientSampleId :

60BR-20230524DL

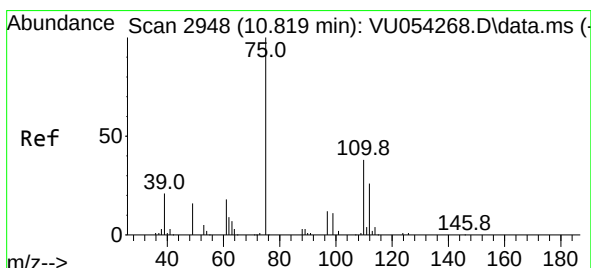
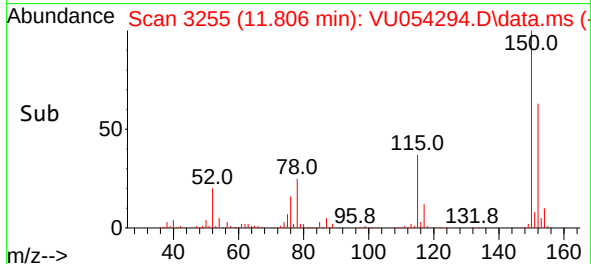
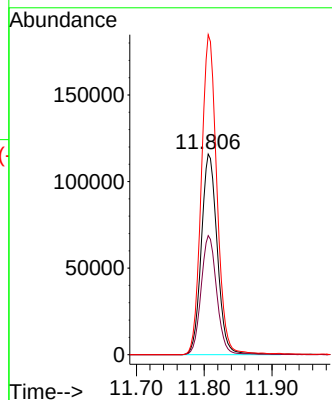
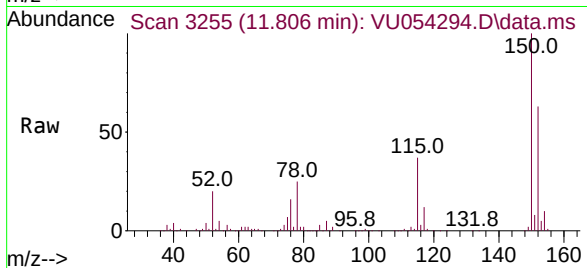
Tgt Ion:152 Resp: 189164

Ion Ratio Lower Upper

152 100

115 58.2 37.0 110.9

150 155.1 0.0 342.2



#76

1,2,3-Trichloropropane

Concen: 16.494 ug/l

RT: 10.629 min Scan# 2889

Delta R.T. -0.190 min

Lab File: VU054294.D

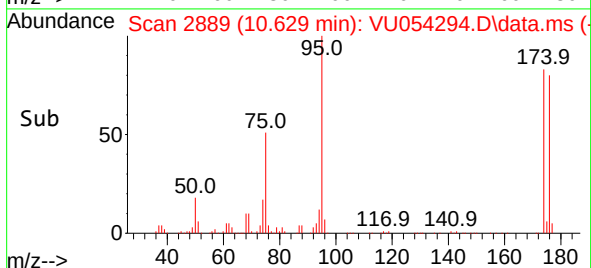
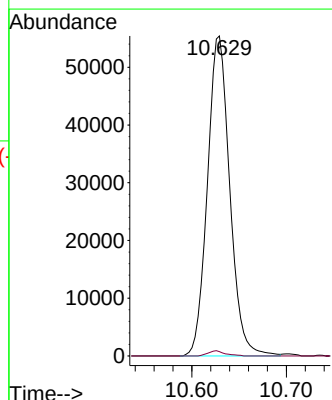
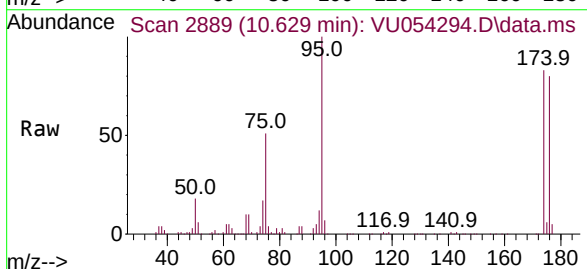
Acq: 26 May 2023 18:36

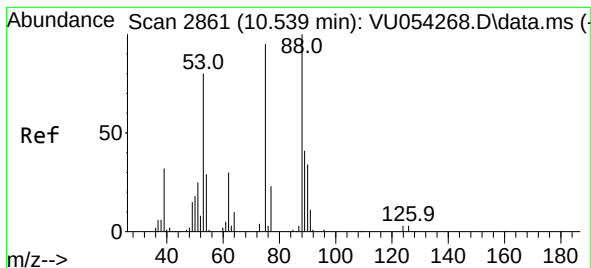
Tgt Ion: 75 Resp: 91063

Ion Ratio Lower Upper

75 100

77 1.2 15.8 47.3#

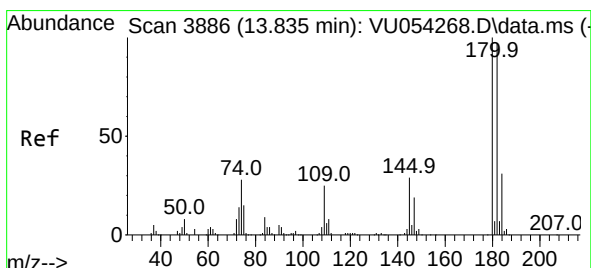
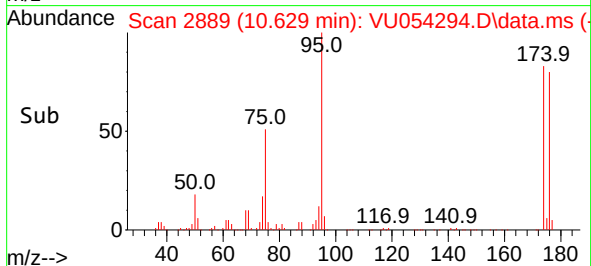
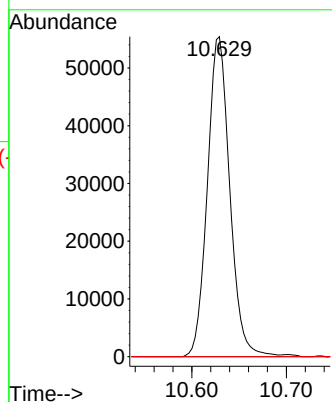
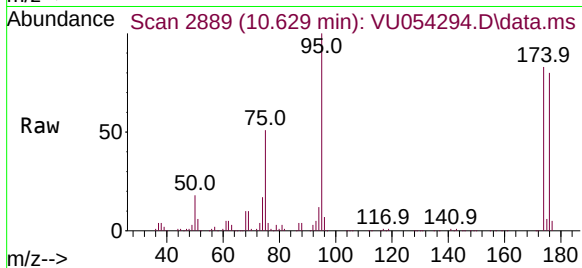




#81
trans-1,4-Dichloro-2-butene
Concen: 62.809 ug/l
RT: 10.629 min Scan# 2889
Delta R.T. 0.090 min
Lab File: VU054294.D
Acq: 26 May 2023 18:36

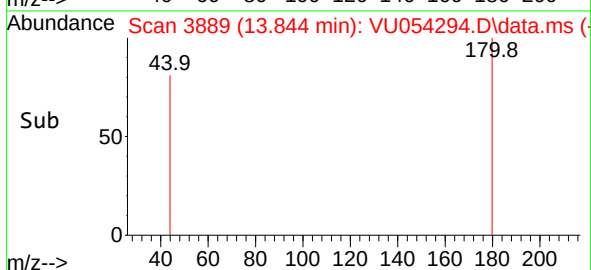
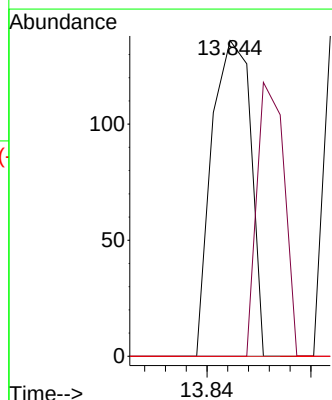
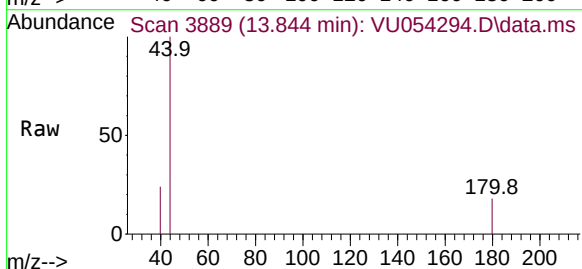
Instrument :
MSVOA_U
ClientSampleId :
60BR-20230524DL

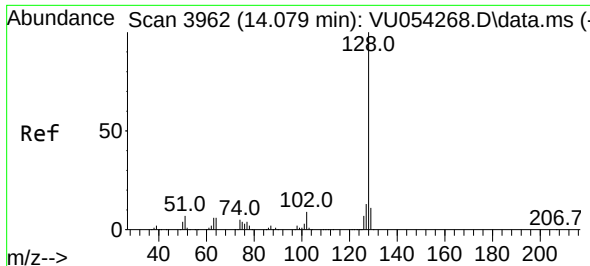
Tgt Ion: 75 Resp: 91063
Ion Ratio Lower Upper
75 100
53 0.0 69.2 103.8#
89 0.0 37.0 55.6#



#93
1,2,4-Trichlorobenzene
Concen: 1.659 ug/l
RT: 13.844 min Scan# 3889
Delta R.T. 0.009 min
Lab File: VU054294.D
Acq: 26 May 2023 18:36

Tgt Ion:180 Resp: 71
Ion Ratio Lower Upper
180 100
182 60.6 47.9 143.6
145 0.0 14.0 41.9#

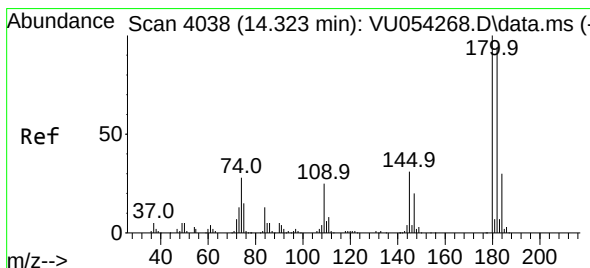
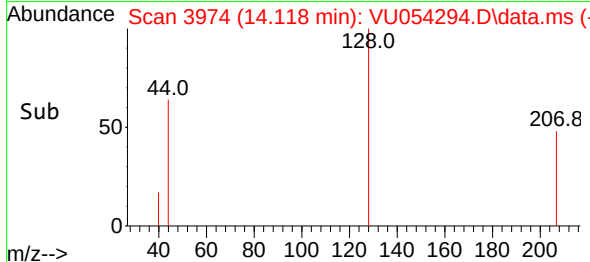
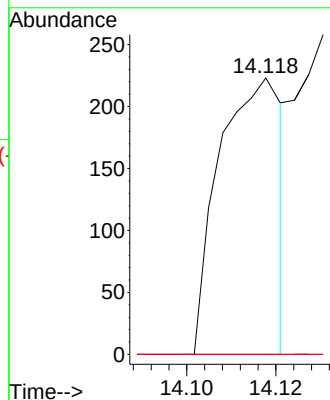
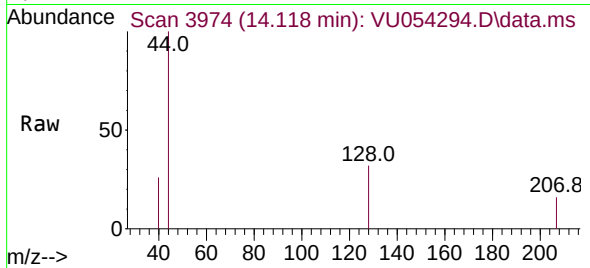




#95
Naphthalene
Concen: 2.006 ug/l
RT: 14.118 min Scan# 3962
Delta R.T. 0.039 min
Lab File: VU054294.D
Acq: 26 May 2023 18:36

Instrument :
MSVOA_U
ClientSampleId :
60BR-20230524DL

Tgt Ion:128 Resp: 217
Ion Ratio Lower Upper
128 100
127 0.0 10.3 15.5#
129 0.0 8.6 13.0#



#96
1,2,3-Trichlorobenzene
Concen: 1.278 ug/l
RT: 14.352 min Scan# 4047
Delta R.T. 0.029 min
Lab File: VU054294.D
Acq: 26 May 2023 18:36

Tgt Ion:180 Resp: 103
Ion Ratio Lower Upper
180 100
182 153.4 48.4 145.0#
145 0.0 14.8 44.4#

