

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU053023\
 Data File : VU054308.D
 Acq On : 30 May 2023 12:59
 Operator : JC/MD
 Sample : 02912-05
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 RE103D1-20230523

Quant Time: May 31 06:25:01 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)

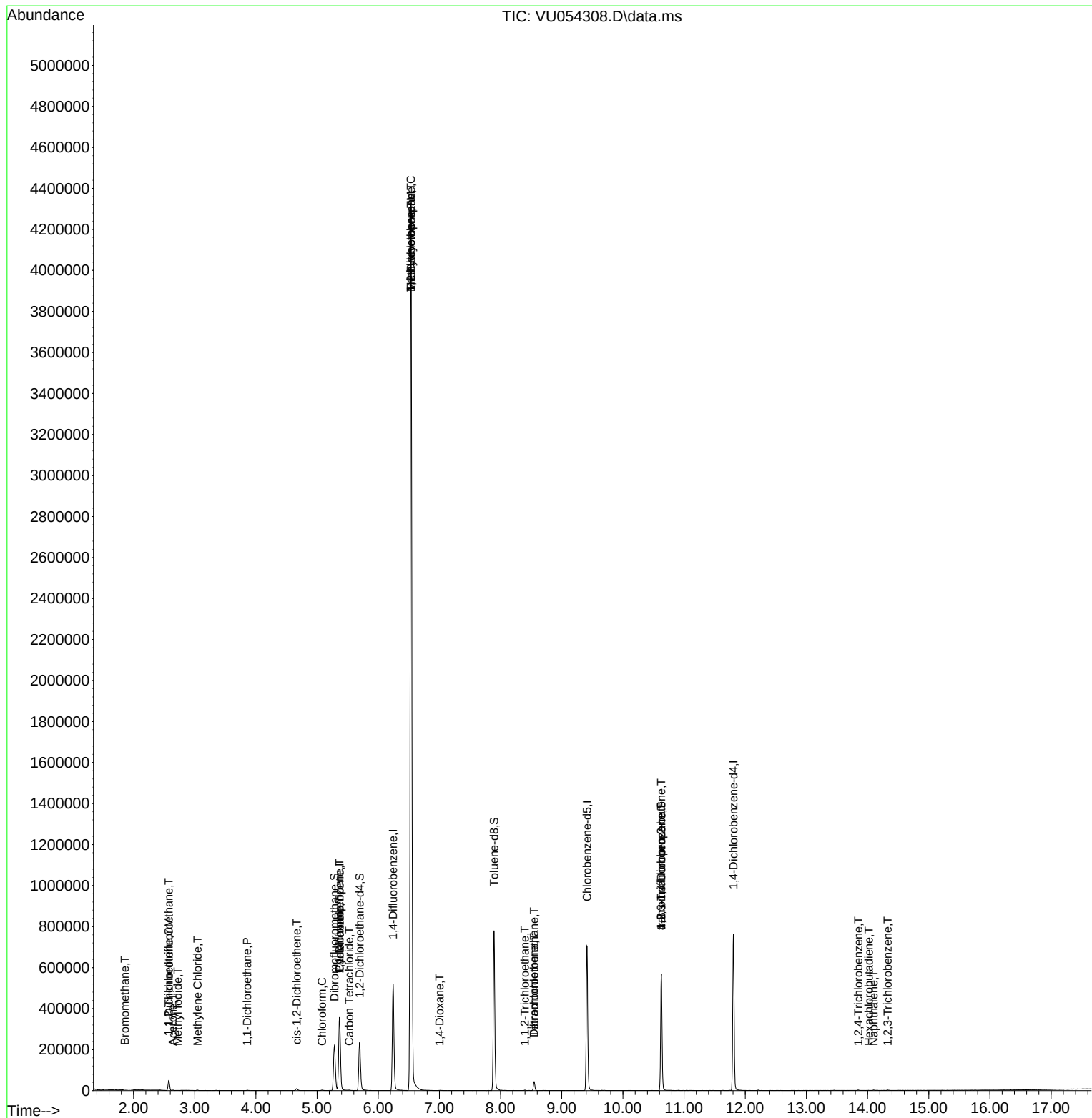
Internal Standards						
1) Pentafluorobenzene	5.369	168	261262	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.243	114	429290	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.414	117	410393	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.806	152	205614	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.697	65	177195	51.738	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 103.480%			
35) Dibromofluoromethane	5.282	113	143775	52.007	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.020%			
50) Toluene-d8	7.893	98	524090	49.840	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 99.680%			
62) 4-Bromofluorobenzene	10.629	95	189839	46.560	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 93.120%			
Target Compounds					Qvalue	
5) Bromomethane	1.858	94	534	0.265	ug/l #	56
9) 1,1,2-Trichlorotrifluo...	2.575	101	16002	5.896	ug/l	94
10) Methyl Iodide	2.723	142	218	2.395	ug/l #	43
12) 1,1-Dichloroethene	2.575	96	3593	1.279	ug/l	89
16) Acetone	2.642	43	1314	0.669	ug/l	98
20) Methylene Chloride	3.044	84	1021	0.288	ug/l #	86
24) 1,1-Dichloroethane	3.858	63	1779	0.322	ug/l #	82
27) cis-1,2-Dichloroethene	4.668	96	5434	1.624	ug/l	88
30) Chloroform	5.079	83	1126	0.200	ug/l	96
31) Cyclohexane	5.369	56	5424	1.122	ug/l #	21
36) 1,1-Dichloropropene	5.365	75	19450	4.479	ug/l #	49
38) Carbon Tetrachloride	5.523	117	1156	0.260	ug/l #	71
39) Methylcyclohexane	6.536	83	18164	3.693	ug/l #	1
44) Trichloroethene	6.536	130	1490110	430.392	ug/l	92
45) 1,2-Dichloropropane	6.536	63	5060	1.566	ug/l #	1
49) 1,4-Dioxane	7.002	88	965	10.326	ug/l #	11
55) 1,1,2-Trichloroethane	8.398	97	841	0.257	ug/l #	78
60) Dibromochloromethane	8.549	129	9655	2.904	ug/l #	11
64) Tetrachloroethene	8.549	164	10280	3.328	ug/l	98
76) 1,2,3-Trichloropropane	10.629	75	95044	15.838	ug/l #	45
81) trans-1,4-Dichloro-2-b...	10.629	75	95044	60.310	ug/l #	15
93) 1,2,4-Trichlorobenzene	13.847	180	938	1.835	ug/l	93
94) Hexachlorobutadiene	14.021	225	93	0.862	ug/l #	19
95) Naphthalene	14.098	128	3946	2.240	ug/l #	86
96) 1,2,3-Trichlorobenzene	14.330	180	934	1.449	ug/l #	92

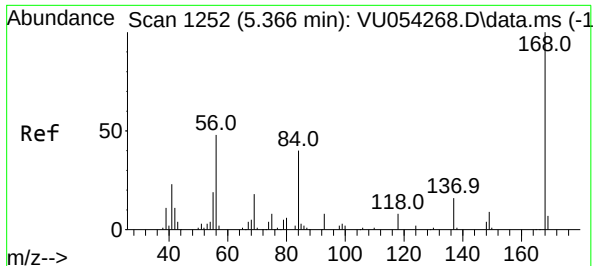
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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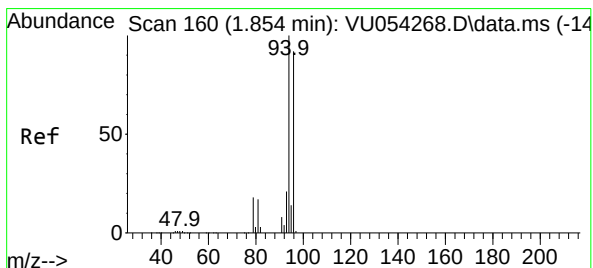
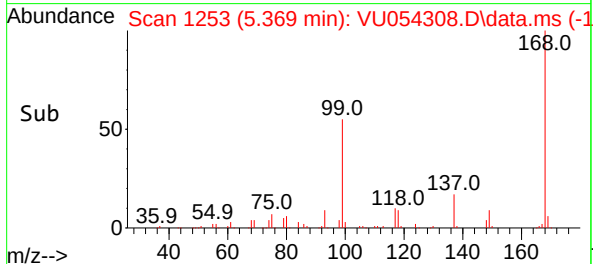
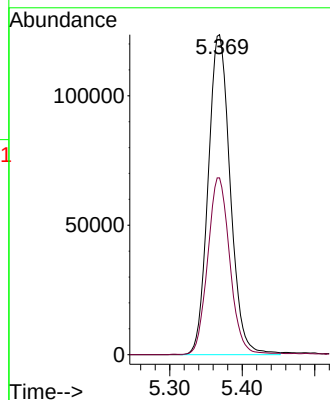
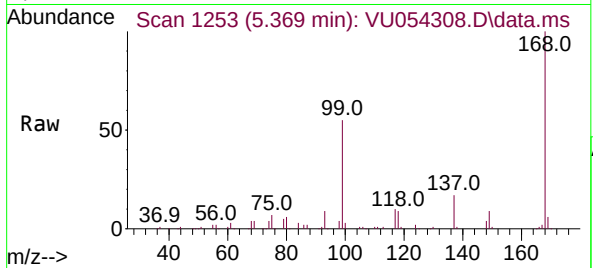




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.369 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU054308.D
Acq: 30 May 2023 12:59

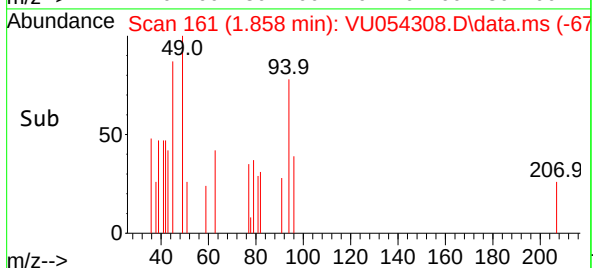
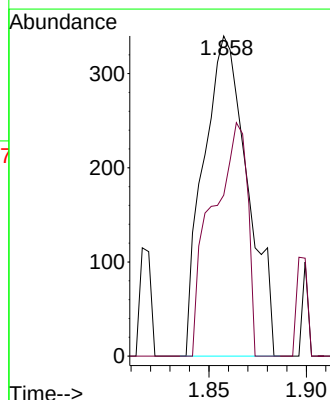
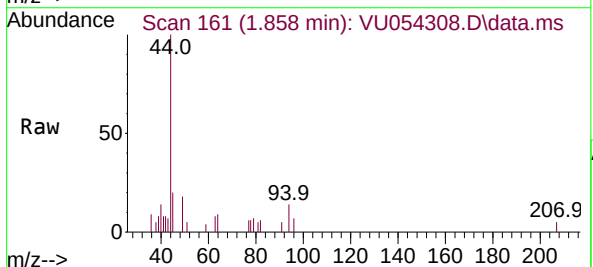
Instrument :
MSVOA_U
ClientSampleId :
RE103D1-20230523

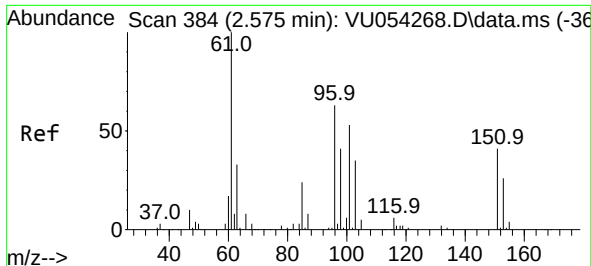
Tgt Ion:168 Resp: 261262
Ion Ratio Lower Upper
168 100
99 55.2 39.3 58.9



#5
Bromomethane
Concen: 0.265 ug/l
RT: 1.858 min Scan# 161
Delta R.T. 0.004 min
Lab File: VU054308.D
Acq: 30 May 2023 12:59

Tgt Ion: 94 Resp: 534
Ion Ratio Lower Upper
94 100
96 50.3 73.7 110.5#

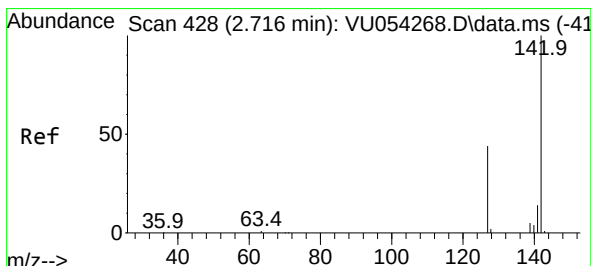
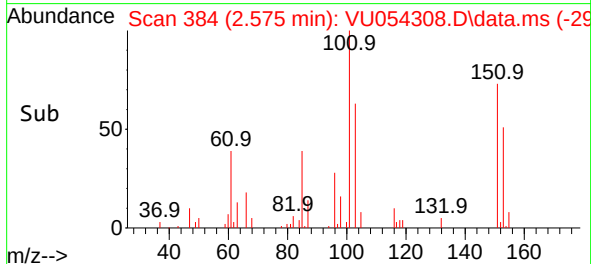
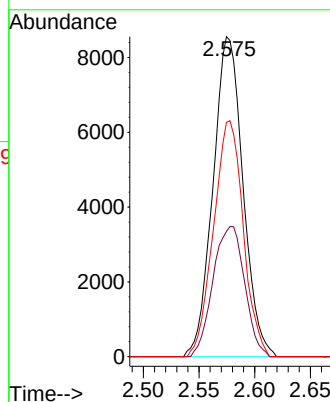
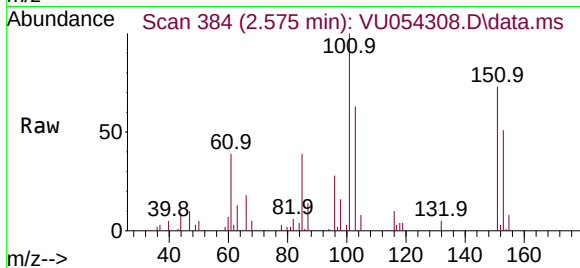




#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.896 ug/l
RT: 2.575 min Scan# 384
Delta R.T. -0.000 min
Lab File: VU054308.D
Acq: 30 May 2023 12:59

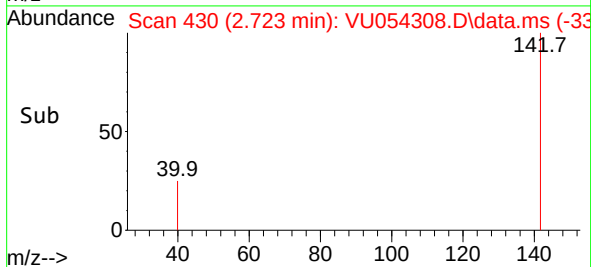
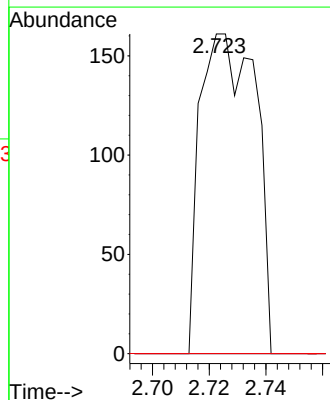
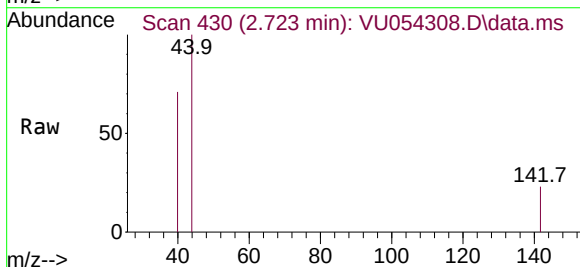
Instrument :
MSVOA_U
ClientSampleId :
RE103D1-20230523

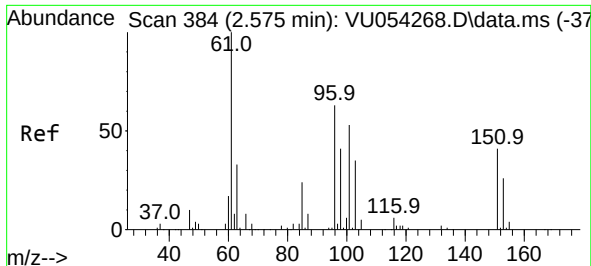
Tgt Ion:	101	Resp:	16002
Ion	Ratio	Lower	Upper
101	100		
85	42.9	33.9	50.9
151	72.9	64.0	96.0



#10
Methyl Iodide
Concen: 2.395 ug/l
RT: 2.723 min Scan# 430
Delta R.T. 0.007 min
Lab File: VU054308.D
Acq: 30 May 2023 12:59

Tgt Ion:	142	Resp:	218
Ion	Ratio	Lower	Upper
142	100		
127	0.0	32.5	48.7#
141	0.0	11.4	17.0#

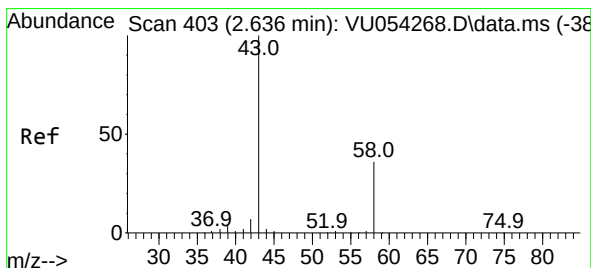
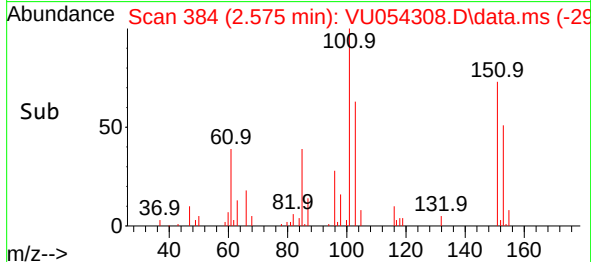
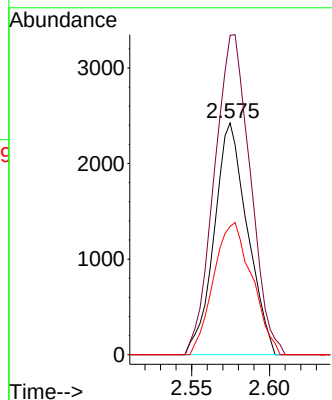
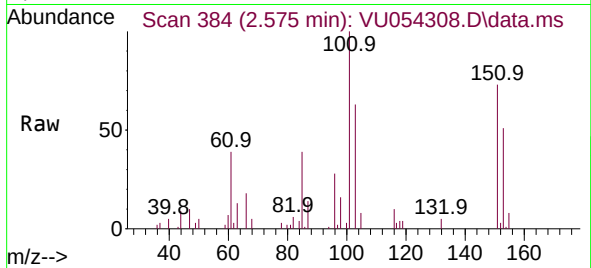




#12
1,1-Dichloroethene
Concen: 1.279 ug/l
RT: 2.575 min Scan# 31
Delta R.T. -0.000 min
Lab File: VU054308.D
Acq: 30 May 2023 12:59

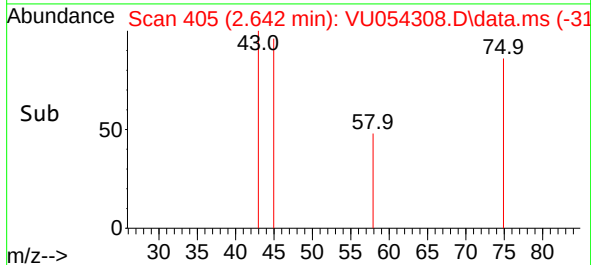
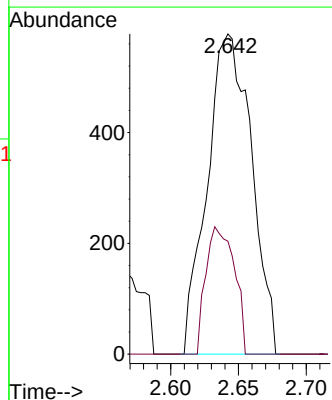
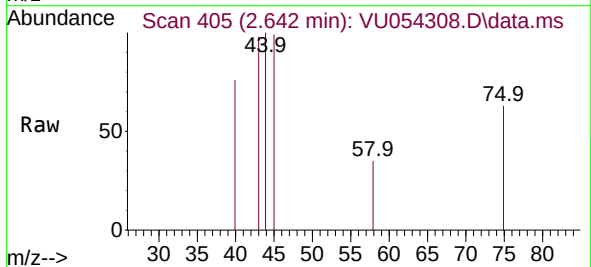
Instrument :
MSVOA_U
ClientSampleId :
RE103D1-20230523

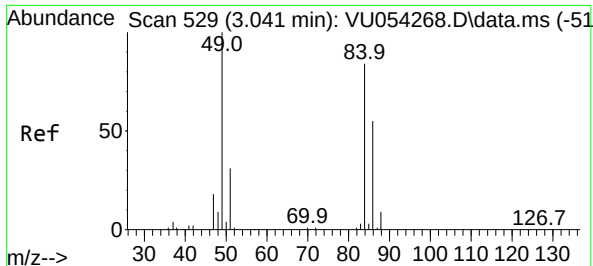
Tgt Ion: 96 Resp: 3593
Ion Ratio Lower Upper
96 100
61 137.9 122.2 183.2
98 55.4 50.7 76.1



#16
Acetone
Concen: 0.669 ug/l
RT: 2.642 min Scan# 405
Delta R.T. 0.006 min
Lab File: VU054308.D
Acq: 30 May 2023 12:59

Tgt Ion: 43 Resp: 1314
Ion Ratio Lower Upper
43 100
58 35.3 27.5 41.3

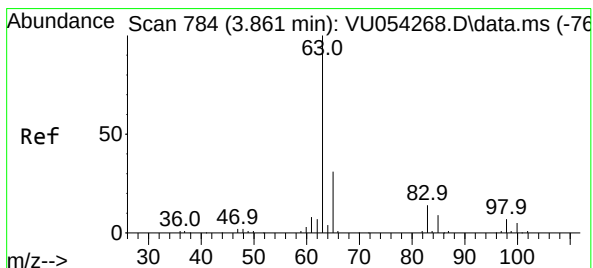
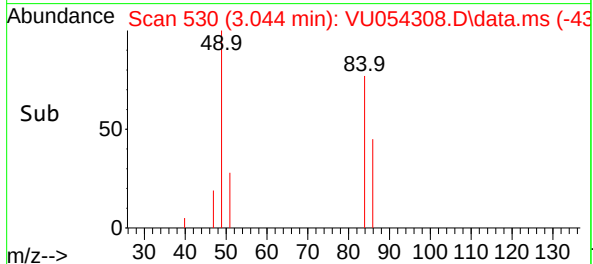
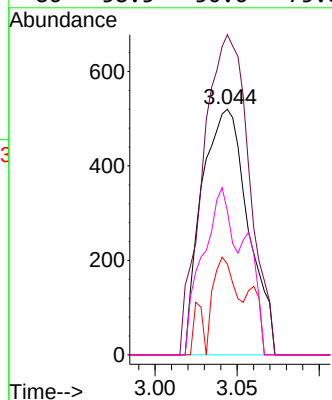
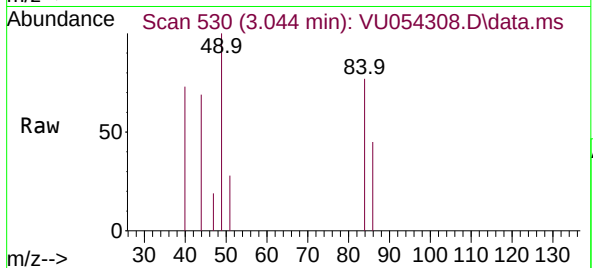




#20
Methylene Chloride
Concen: 0.288 ug/l
RT: 3.044 min Scan# 51
Delta R.T. 0.003 min
Lab File: VU054308.D
Acq: 30 May 2023 12:59

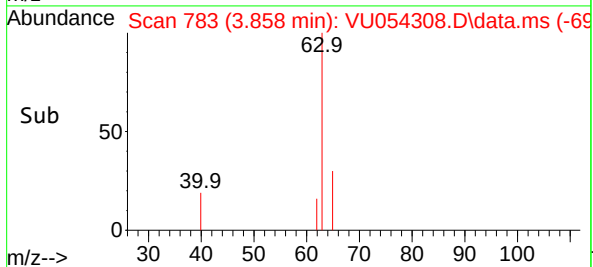
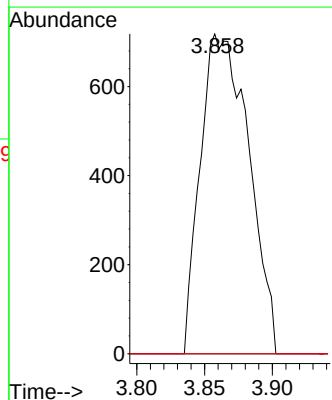
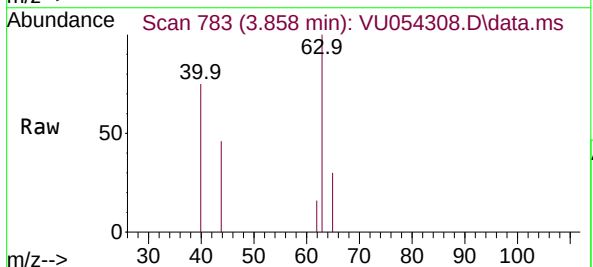
Instrument :
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ClientSampleId :
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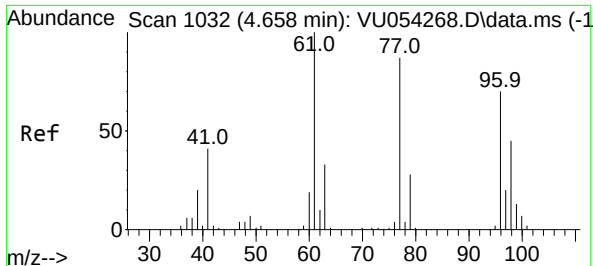
Tgt Ion:	84	Resp:	1021
Ion	Ratio	Lower	Upper
84	100		
49	130.4	86.6	129.8#
51	36.9	26.6	40.0
86	58.5	50.6	75.8



#24
1,1-Dichloroethane
Concen: 0.322 ug/l
RT: 3.858 min Scan# 783
Delta R.T. -0.003 min
Lab File: VU054308.D
Acq: 30 May 2023 12:59

Tgt Ion:	63	Resp:	1779
Ion	Ratio	Lower	Upper
63	100		
98	0.0	3.6	10.9#
100	0.0	2.4	7.2#





#27

cis-1,2-Dichloroethene

Concen: 1.624 ug/l

RT: 4.668 min Scan# 1103

Delta R.T. 0.010 min

Lab File: VU054308.D

Acq: 30 May 2023 12:59

Instrument :

MSVOA_U

ClientSampleId :

RE103D1-20230523

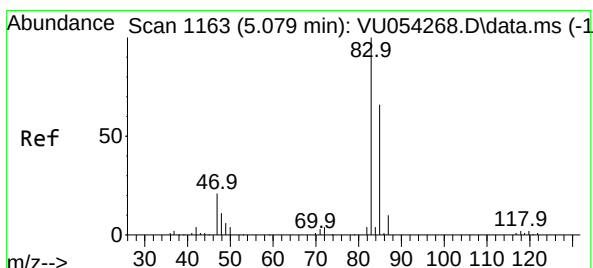
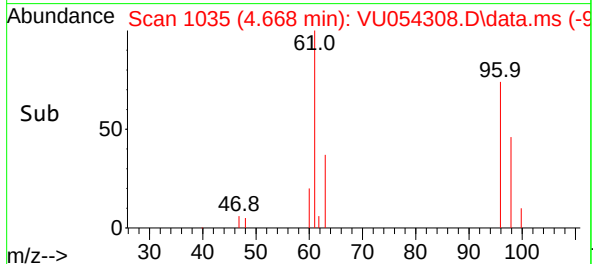
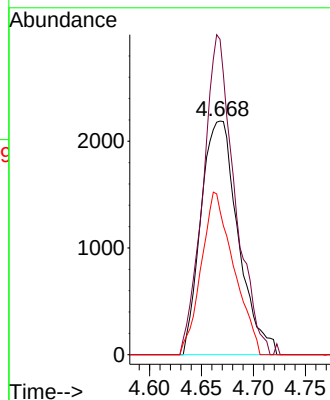
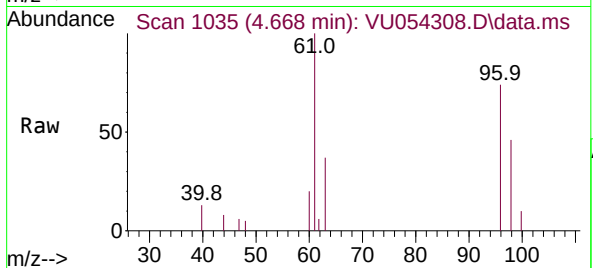
Tgt Ion: 96 Resp: 5434

Ion Ratio Lower Upper

96 100

61 117.0 0.0 271.6

98 60.7 0.0 128.2



#30

Chloroform

Concen: 0.200 ug/l

RT: 5.079 min Scan# 1163

Delta R.T. 0.000 min

Lab File: VU054308.D

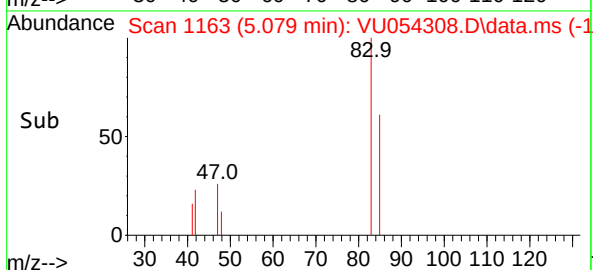
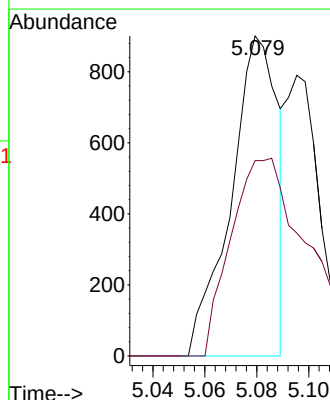
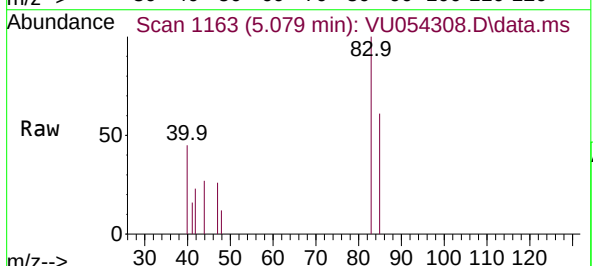
Acq: 30 May 2023 12:59

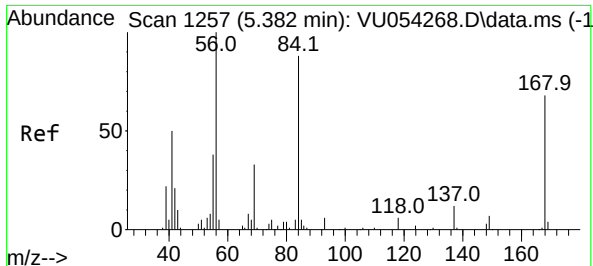
Tgt Ion: 83 Resp: 1126

Ion Ratio Lower Upper

83 100

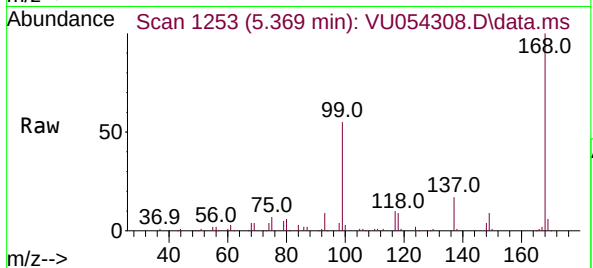
85 61.0 51.2 76.8



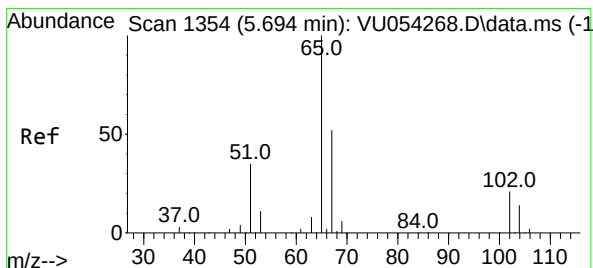
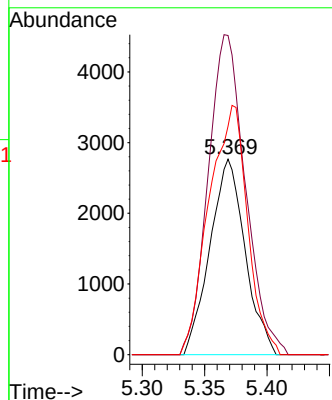
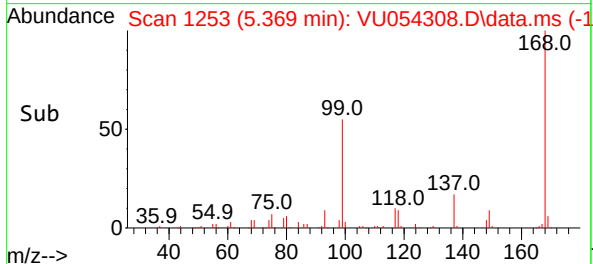


#31
Cyclohexane
Concen: 1.122 ug/l
RT: 5.369 min Scan# 1253
Delta R.T. -0.013 min
Lab File: VU054308.D
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Instrument :
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ClientSampleId :
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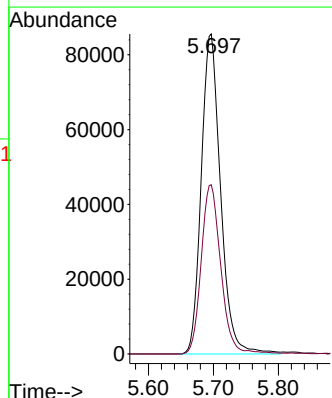
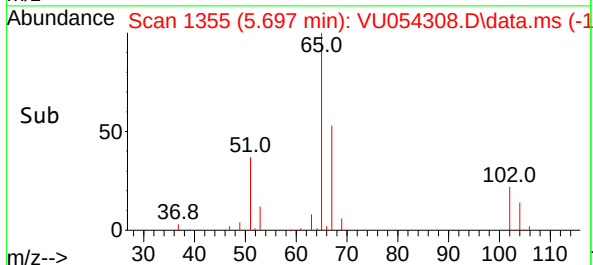
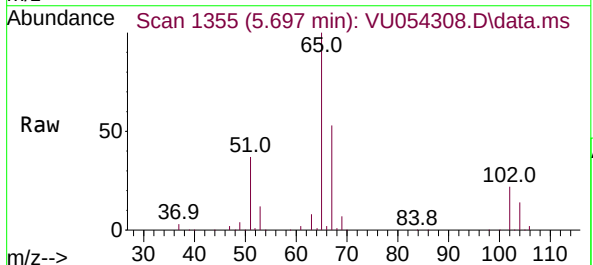


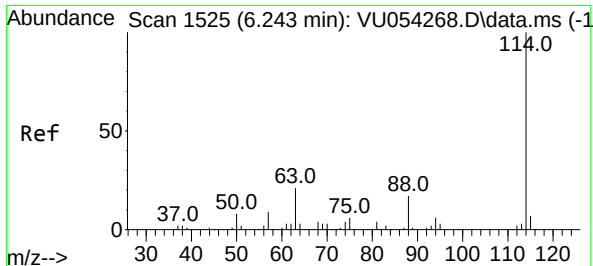
Tgt Ion: 56 Resp: 5424
Ion Ratio Lower Upper
56 100
69 163.3 27.8 41.8#
84 116.9 74.2 111.4#



#33
1,2-Dichloroethane-d4
Concen: 51.738 ug/l
RT: 5.697 min Scan# 1355
Delta R.T. 0.003 min
Lab File: VU054308.D
Acq: 30 May 2023 12:59

Tgt Ion: 65 Resp: 177195
Ion Ratio Lower Upper
65 100
67 53.6 0.0 108.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.243 min Scan# 1

Delta R.T. 0.000 min

Lab File: VU054308.D

Acq: 30 May 2023 12:59

Instrument :

MSVOA_U

ClientSampleId :

RE103D1-20230523

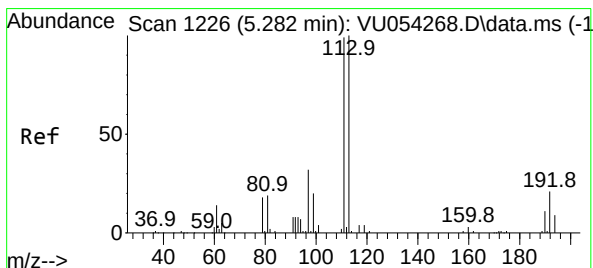
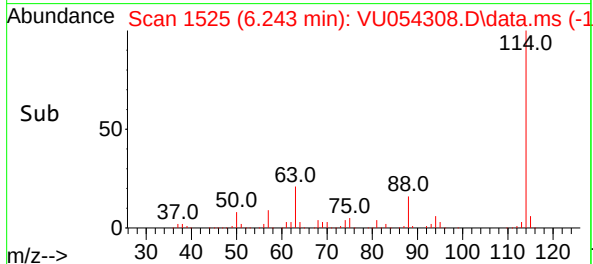
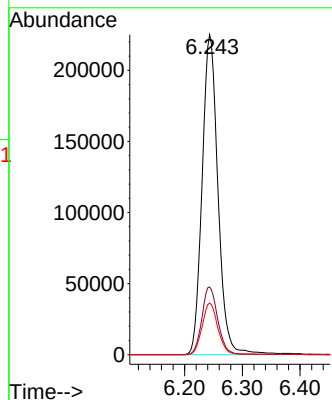
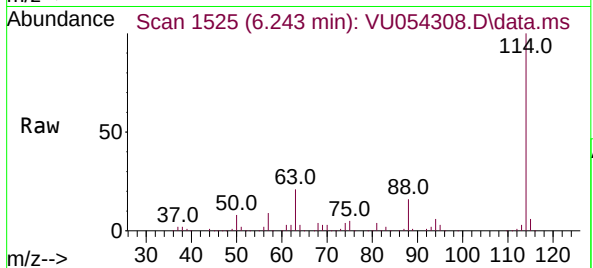
Tgt Ion:114 Resp: 429290

Ion Ratio Lower Upper

114 100

63 21.2 0.0 37.8

88 16.1 0.0 29.2



#35

Dibromofluoromethane

Concen: 52.007 ug/l

RT: 5.282 min Scan# 1226

Delta R.T. -0.000 min

Lab File: VU054308.D

Acq: 30 May 2023 12:59

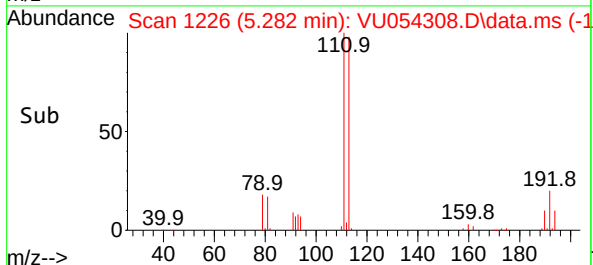
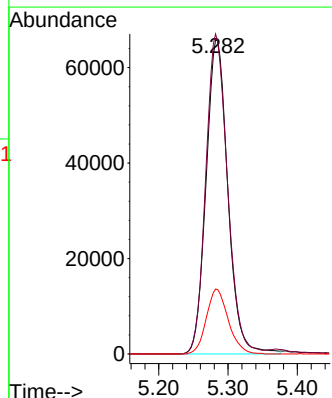
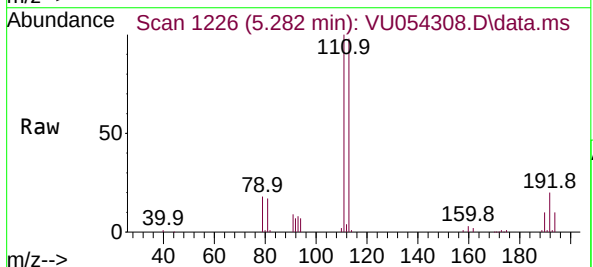
Tgt Ion:113 Resp: 143775

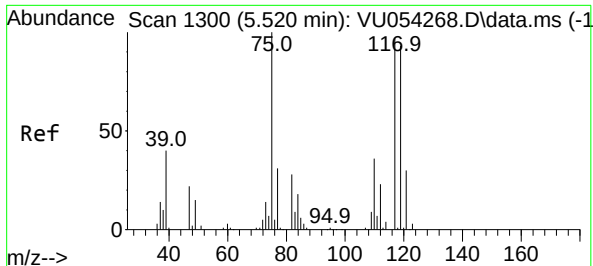
Ion Ratio Lower Upper

113 100

111 101.4 82.1 123.1

192 20.8 18.0 27.0





#36

1,1-Dichloropropene

Concen: 4.479 ug/l

RT: 5.365 min Scan# 11

Delta R.T. -0.154 min

Lab File: VU054308.D

Acq: 30 May 2023 12:59

Instrument :

MSVOA_U

ClientSampleId :

RE103D1-20230523

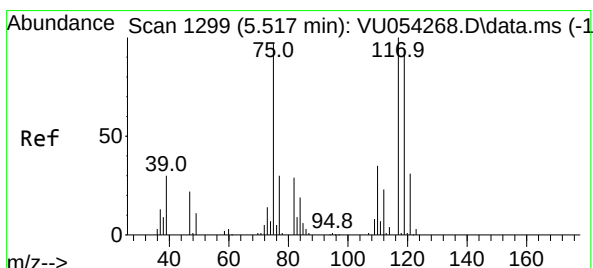
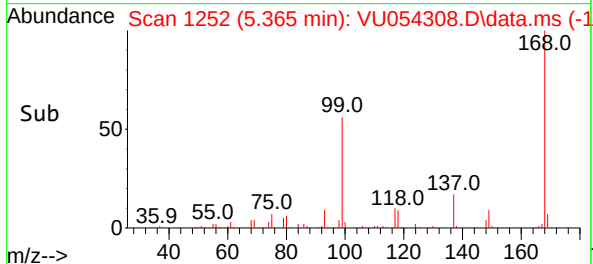
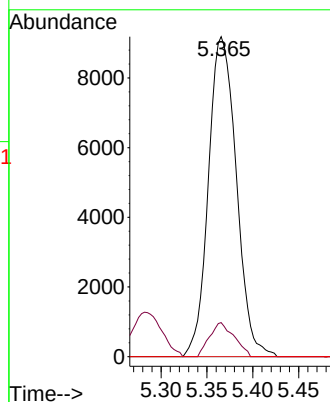
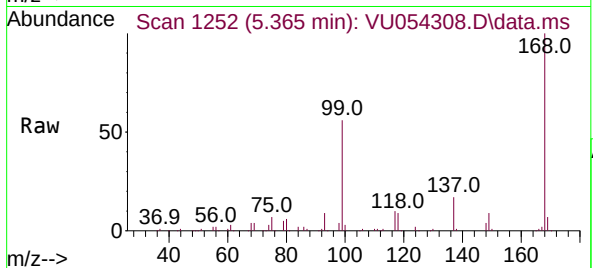
Tgt Ion: 75 Resp: 19450

Ion Ratio Lower Upper

75 100

110 9.4 18.4 55.2#

77 0.0 25.1 37.7#



#38

Carbon Tetrachloride

Concen: 0.260 ug/l

RT: 5.523 min Scan# 1301

Delta R.T. 0.006 min

Lab File: VU054308.D

Acq: 30 May 2023 12:59

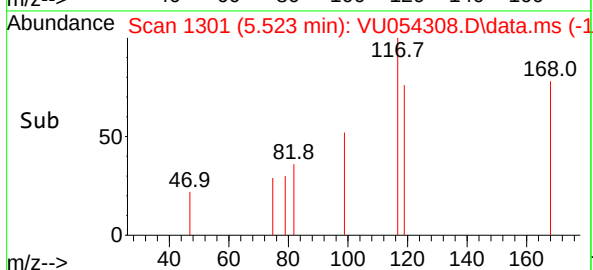
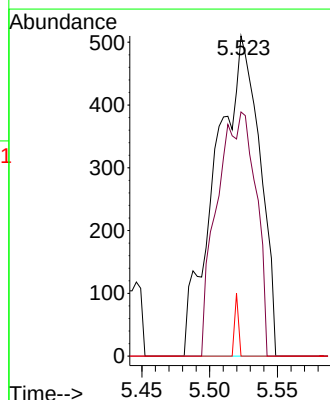
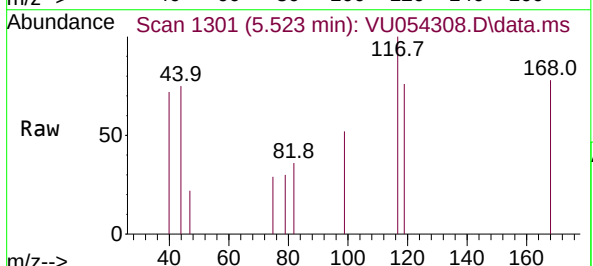
Tgt Ion: 117 Resp: 1156

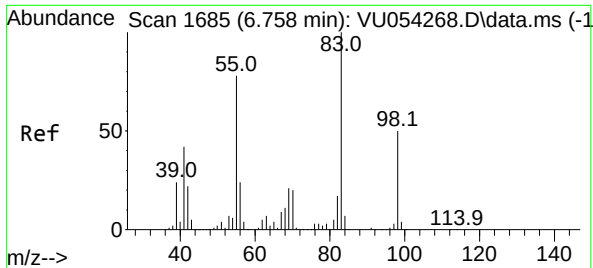
Ion Ratio Lower Upper

117 100

119 76.3 76.8 115.2#

121 0.0 24.7 37.1#

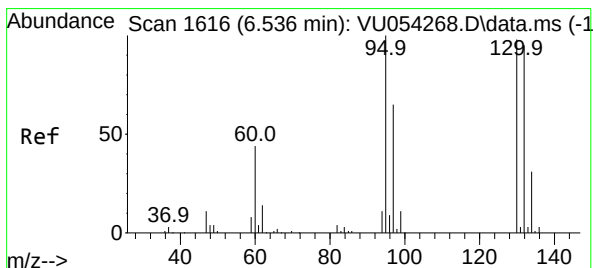
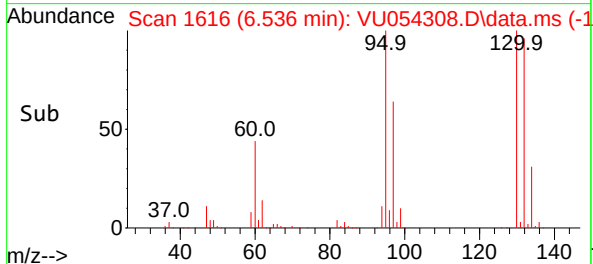
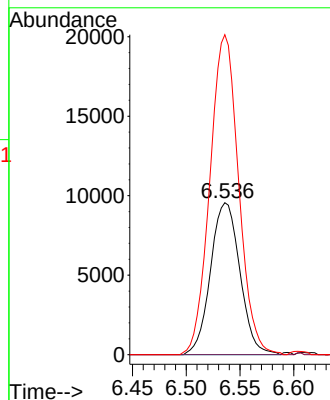
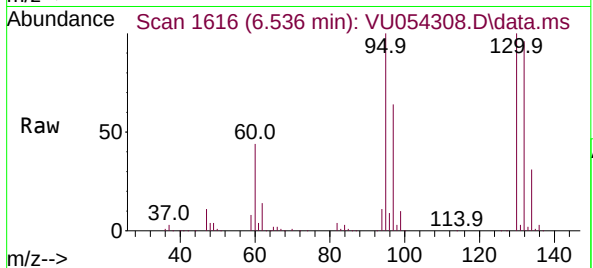




#39
Methylcyclohexane
Concen: 3.693 ug/l
RT: 6.536 min Scan# 1616
Delta R.T. -0.222 min
Lab File: VU054308.D
Acq: 30 May 2023 12:59

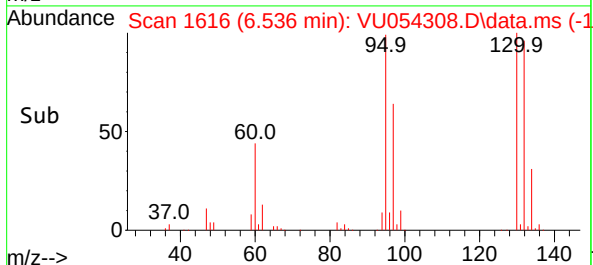
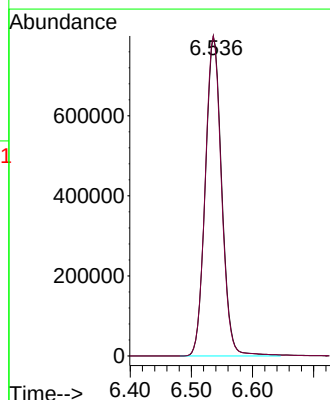
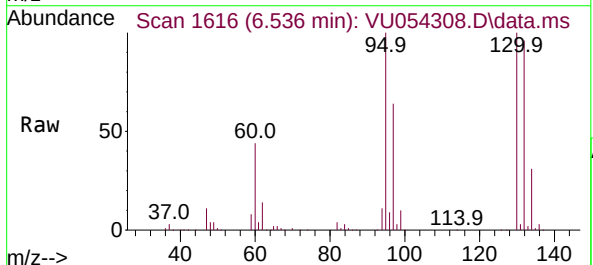
Instrument :
MSVOA_U
ClientSampleId :
RE103D1-20230523

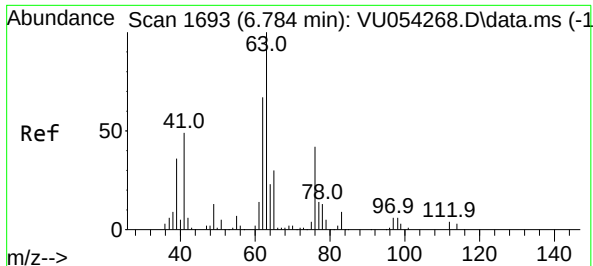
Tgt Ion: 83 Resp: 18164
Ion Ratio Lower Upper
83 100
55 0.0 55.3 82.9#
98 210.5 37.3 55.9#



#44
Trichloroethene
Concen: 430.392 ug/l
RT: 6.536 min Scan# 1616
Delta R.T. -0.000 min
Lab File: VU054308.D
Acq: 30 May 2023 12:59

Tgt Ion:130 Resp: 1490110
Ion Ratio Lower Upper
130 100
95 100.1 0.0 184.6





#45

1,2-Dichloropropane

Concen: 1.566 ug/l

RT: 6.536 min Scan# 1

Delta R.T. -0.248 min

Lab File: VU054308.D

Acq: 30 May 2023 12:59

Instrument :

MSVOA_U

ClientSampleId :

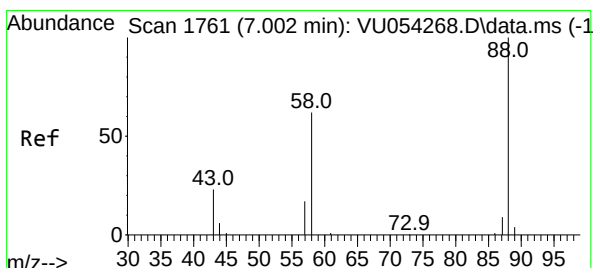
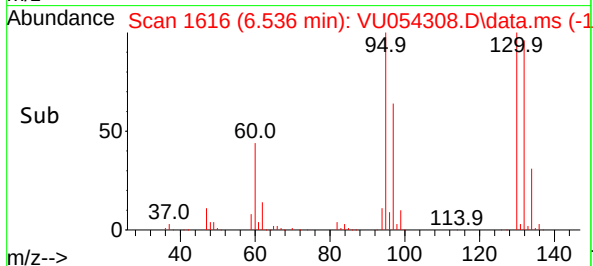
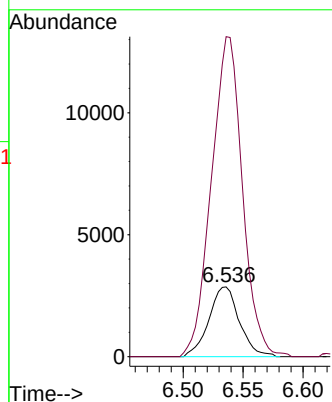
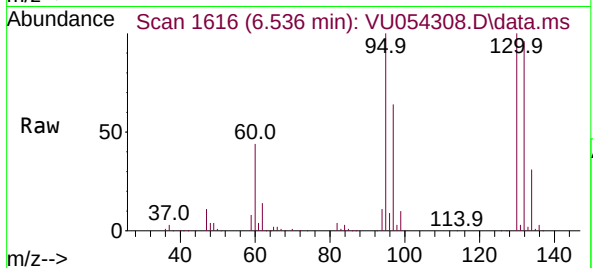
RE103D1-20230523

Tgt Ion: 63 Resp: 5060

Ion Ratio Lower Upper

63 100

65 458.4 25.0 37.4#



#49

1,4-Dioxane

Concen: 10.326 ug/l

RT: 7.002 min Scan# 1761

Delta R.T. 0.000 min

Lab File: VU054308.D

Acq: 30 May 2023 12:59

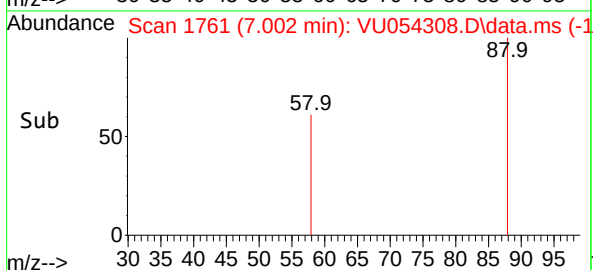
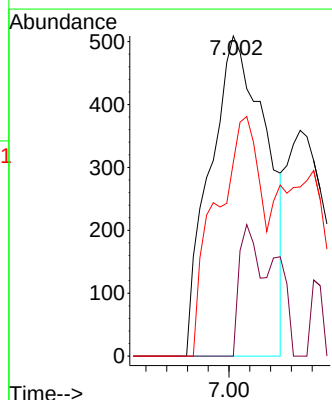
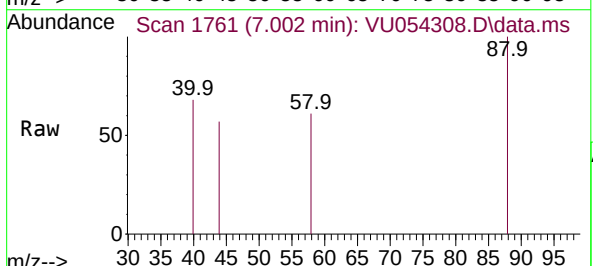
Tgt Ion: 88 Resp: 965

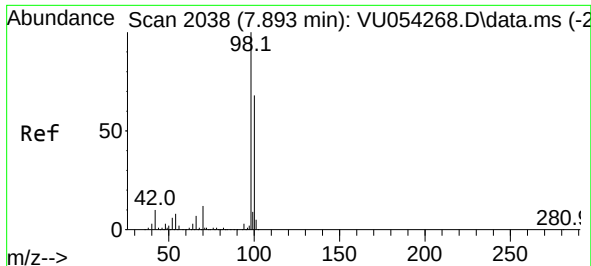
Ion Ratio Lower Upper

88 100

43 16.1 0.0 0.0#

58 59.5 15.4 23.0#

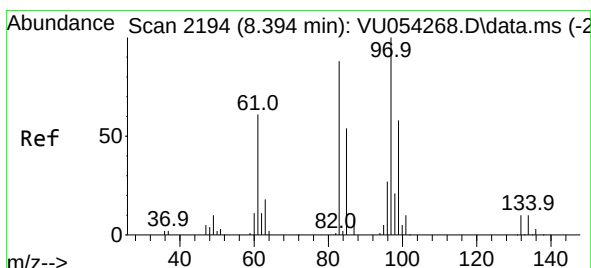
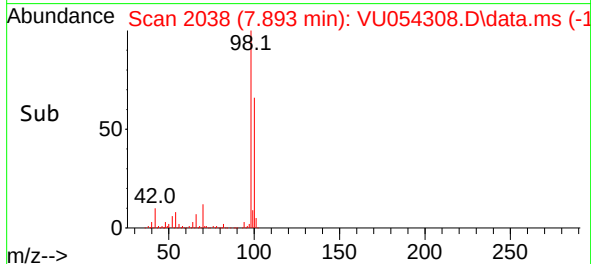
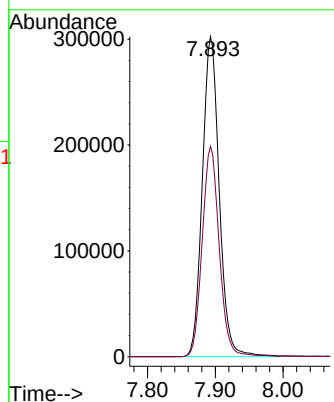
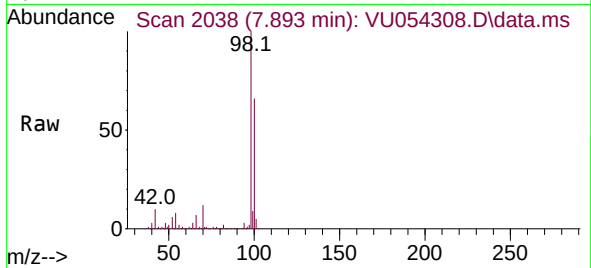




#50
Toluene-d8
Concen: 49.840 ug/l
RT: 7.893 min Scan# 2038
Delta R.T. -0.000 min
Lab File: VU054308.D
Acq: 30 May 2023 12:59

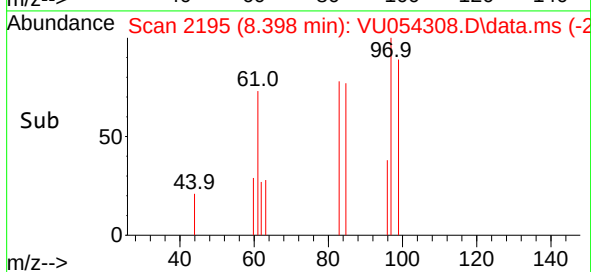
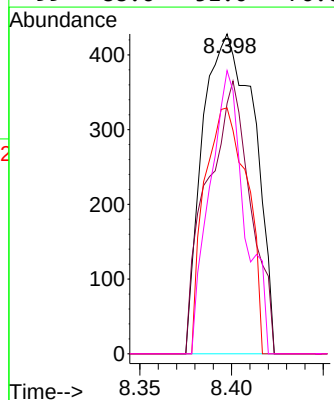
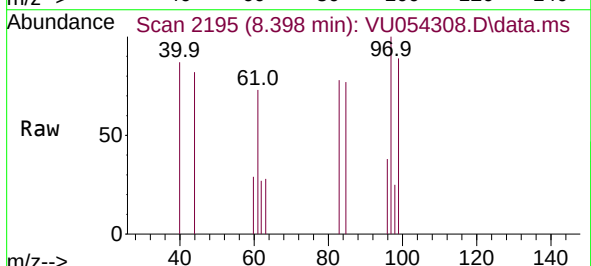
Instrument :
MSVOA_U
ClientSampleId :
RE103D1-20230523

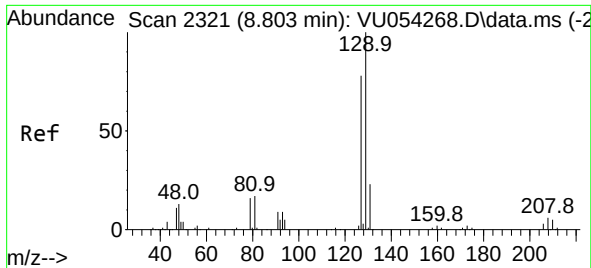
Tgt Ion: 98 Resp: 524090
Ion Ratio Lower Upper
98 100
100 66.3 51.7 77.5



#55
1,1,2-Trichloroethane
Concen: 0.257 ug/l
RT: 8.398 min Scan# 2195
Delta R.T. 0.004 min
Lab File: VU054308.D
Acq: 30 May 2023 12:59

Tgt Ion: 97 Resp: 841
Ion Ratio Lower Upper
97 100
83 78.3 70.2 105.4
85 76.9 44.6 66.8#
99 88.6 51.0 76.6#

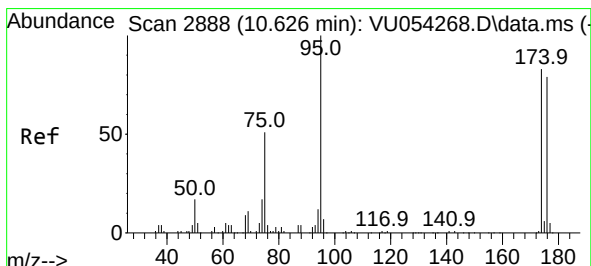
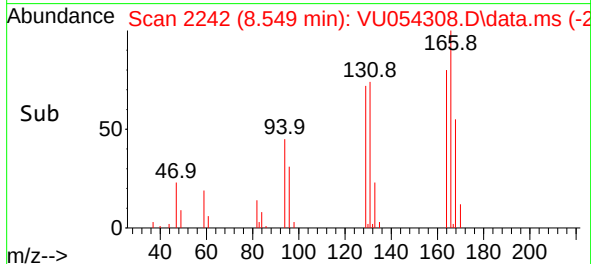
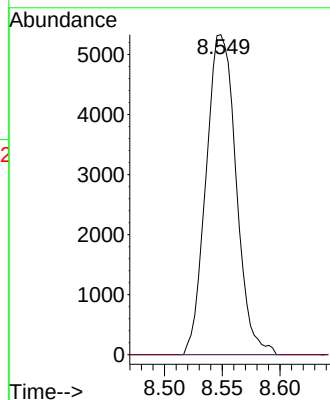
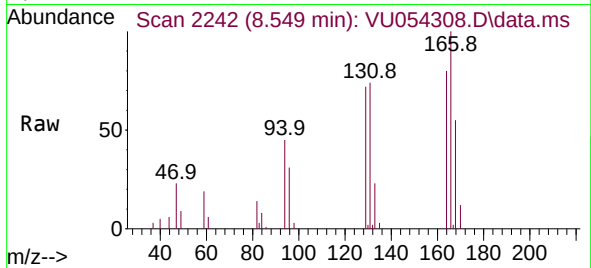




#60
Dibromochloromethane
Concen: 2.904 ug/l
RT: 8.549 min Scan# 211
Delta R.T. -0.254 min
Lab File: VU054308.D
Acq: 30 May 2023 12:59

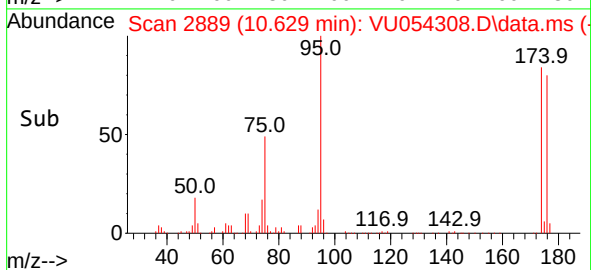
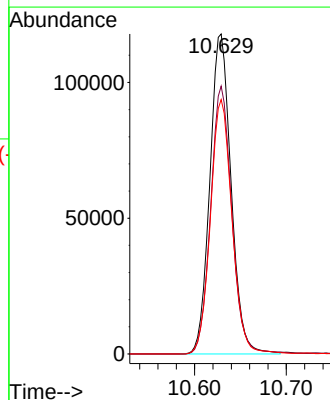
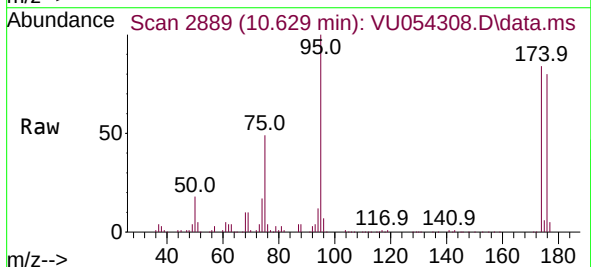
Instrument :
MSVOA_U
ClientSampleId :
RE103D1-20230523

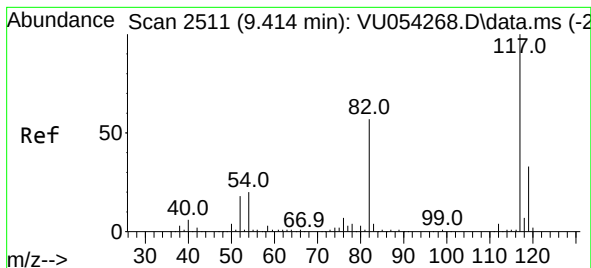
Tgt Ion:129 Resp: 9655
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#



#62
4-Bromofluorobenzene
Concen: 46.560 ug/l
RT: 10.629 min Scan# 2889
Delta R.T. 0.003 min
Lab File: VU054308.D
Acq: 30 May 2023 12:59

Tgt Ion: 95 Resp: 189839
Ion Ratio Lower Upper
95 100
174 83.5 0.0 182.0
176 80.7 0.0 177.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.414 min Scan# 2511

Delta R.T. -0.000 min

Lab File: VU054308.D

Acq: 30 May 2023 12:59

Instrument :

MSVOA_U

ClientSampleId :

RE103D1-20230523

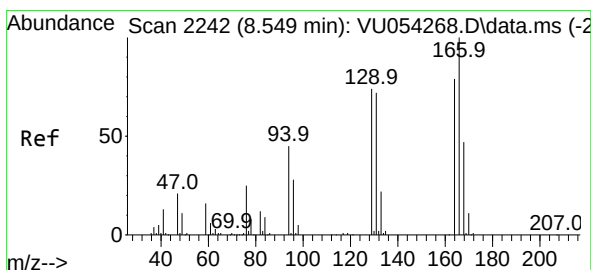
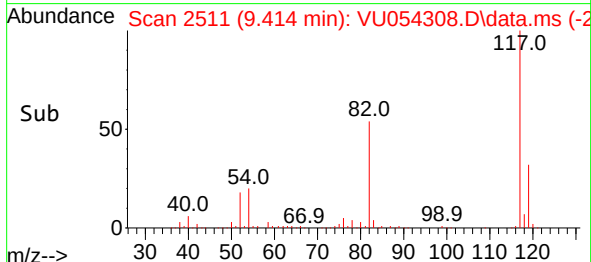
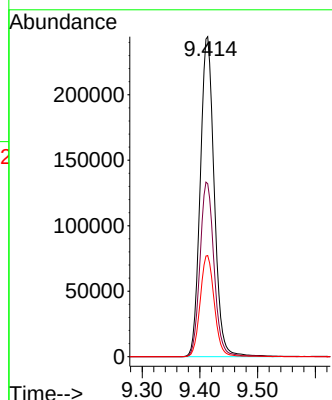
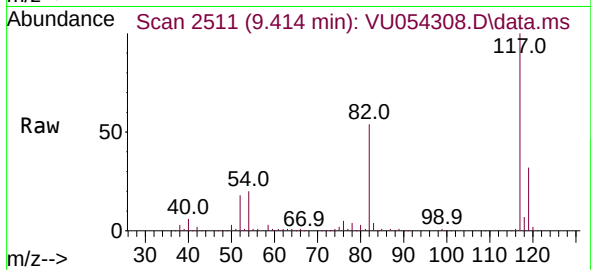
Tgt Ion:117 Resp: 410393

Ion Ratio Lower Upper

117 100

82 54.1 41.7 62.5

119 31.6 25.7 38.5



#64

Tetrachloroethene

Concen: 3.328 ug/l

RT: 8.549 min Scan# 2242

Delta R.T. -0.000 min

Lab File: VU054308.D

Acq: 30 May 2023 12:59

Tgt Ion:164 Resp: 10280

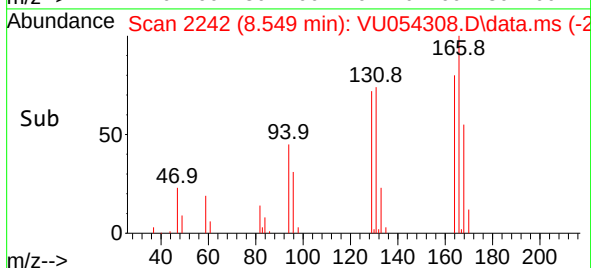
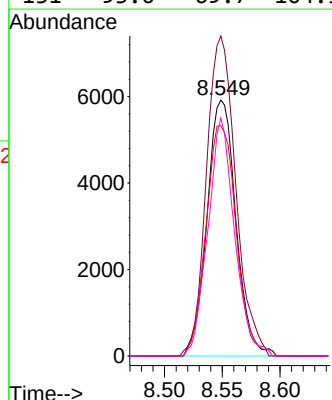
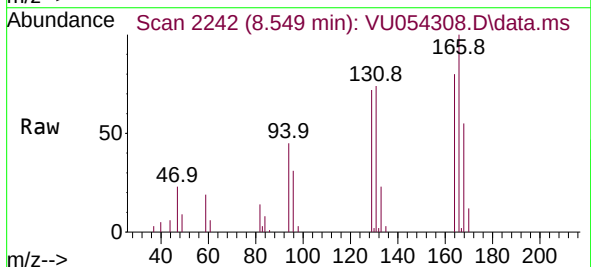
Ion Ratio Lower Upper

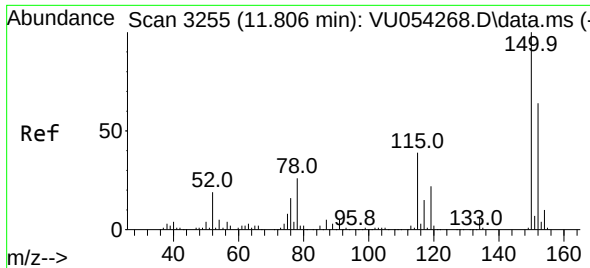
164 100

166 125.1 100.0 150.0

129 90.1 72.0 108.0

131 93.0 69.7 104.5

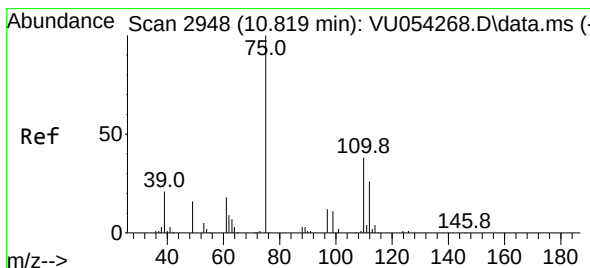
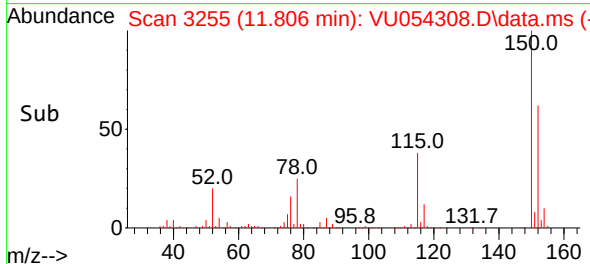
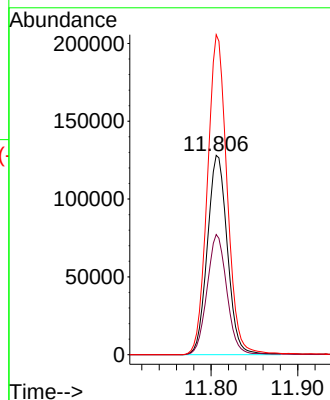
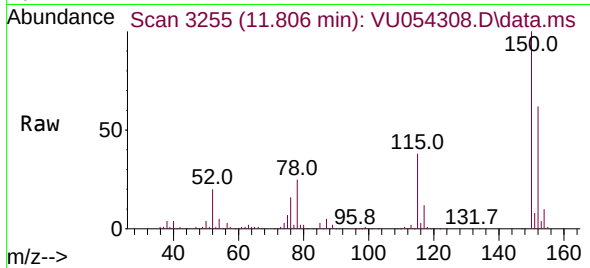




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.806 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: VU054308.D
 Acq: 30 May 2023 12:59

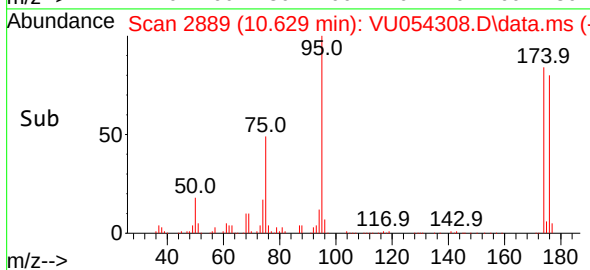
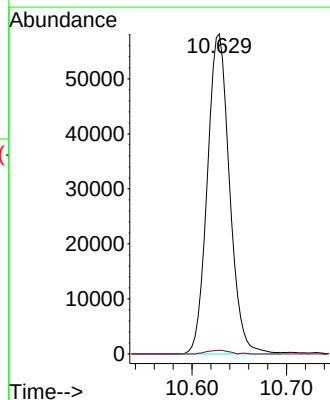
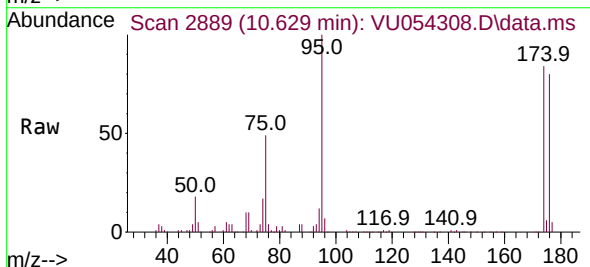
Instrument :
 MSVOA_U
 ClientSampleId :
 RE103D1-20230523

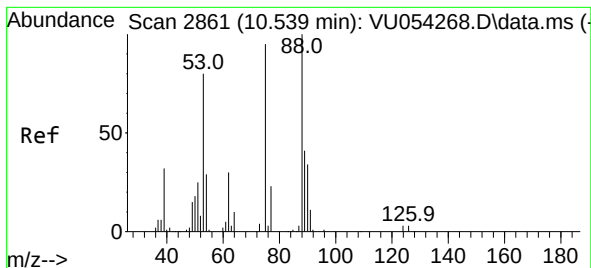
Tgt Ion:152 Resp: 205614
 Ion Ratio Lower Upper
 152 100
 115 60.0 37.0 110.9
 150 157.8 0.0 342.2



#76
 1,2,3-Trichloropropane
 Concen: 15.838 ug/l
 RT: 10.629 min Scan# 2889
 Delta R.T. -0.190 min
 Lab File: VU054308.D
 Acq: 30 May 2023 12:59

Tgt Ion: 75 Resp: 95044
 Ion Ratio Lower Upper
 75 100
 77 1.1 15.8 47.3#

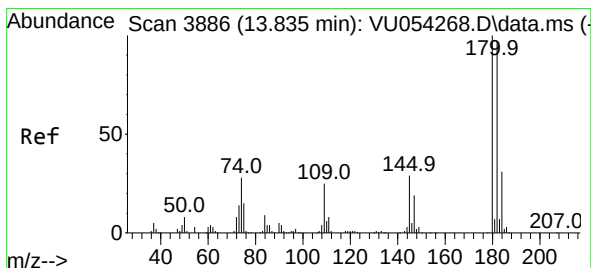
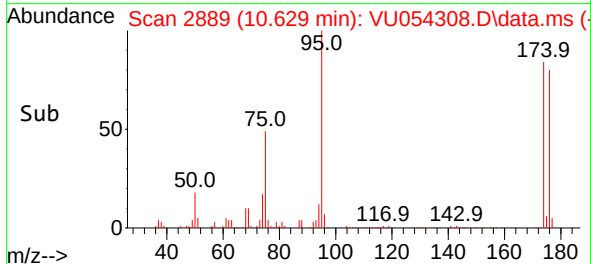
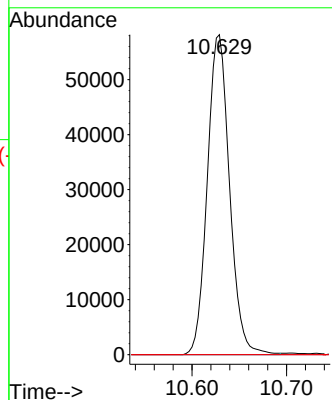
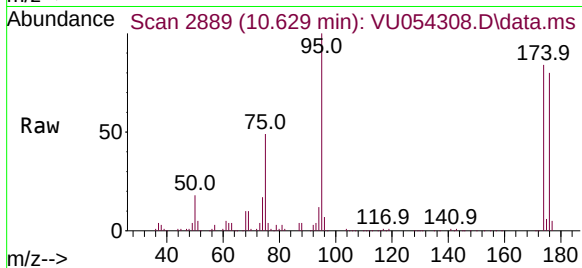




#81
trans-1,4-Dichloro-2-butene
Concen: 60.310 ug/l
RT: 10.629 min Scan# 21
Delta R.T. 0.090 min
Lab File: VU054308.D
Acq: 30 May 2023 12:59

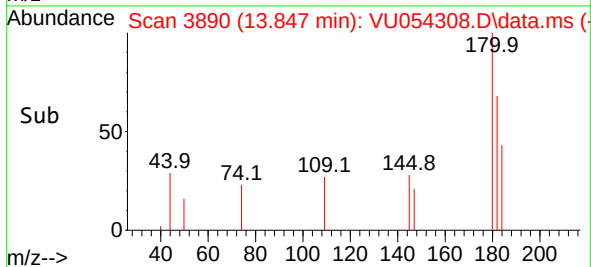
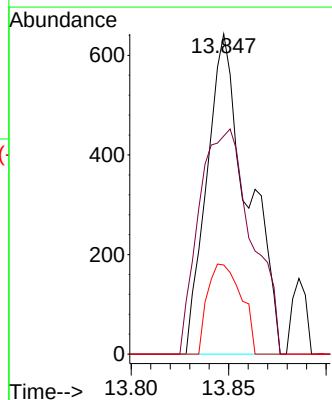
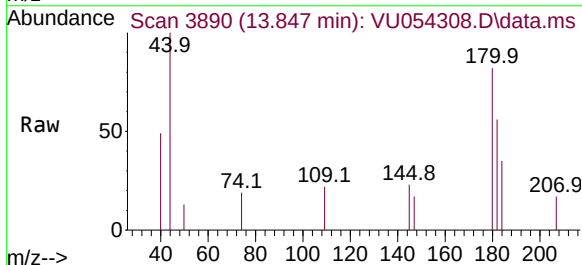
Instrument :
MSVOA_U
ClientSampleId :
RE103D1-20230523

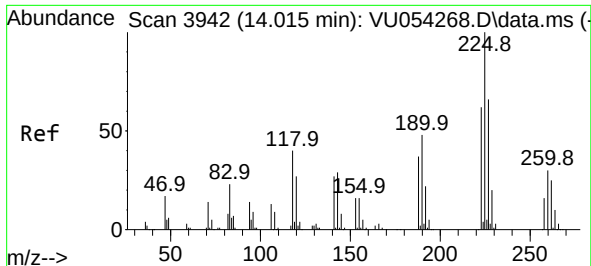
Tgt Ion: 75 Resp: 95044
Ion Ratio Lower Upper
75 100
53 0.0 69.2 103.8#
89 0.0 37.0 55.6#



#93
1,2,4-Trichlorobenzene
Concen: 1.835 ug/l
RT: 13.847 min Scan# 3890
Delta R.T. 0.012 min
Lab File: VU054308.D
Acq: 30 May 2023 12:59

Tgt Ion: 180 Resp: 938
Ion Ratio Lower Upper
180 100
182 90.1 47.9 143.6
145 23.1 14.0 41.9

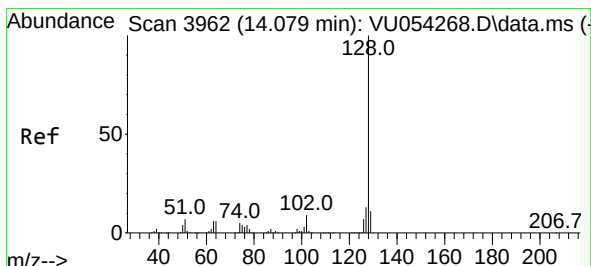
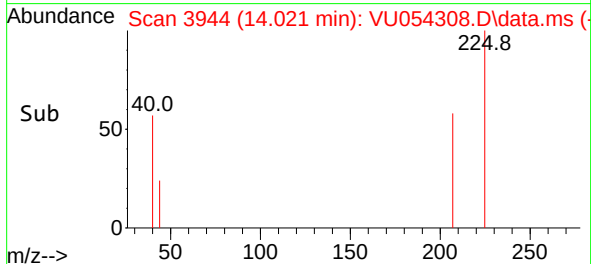
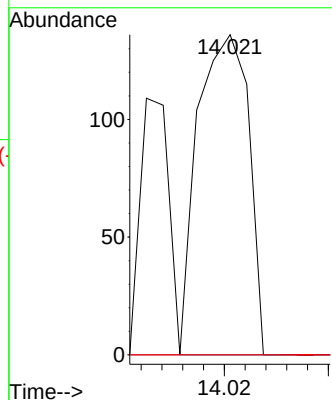
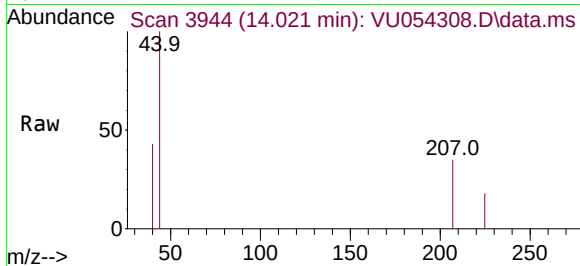




#94
Hexachlorobutadiene
Concen: 0.862 ug/l
RT: 14.021 min Scan# 3944
Delta R.T. 0.006 min
Lab File: VU054308.D
Acq: 30 May 2023 12:59

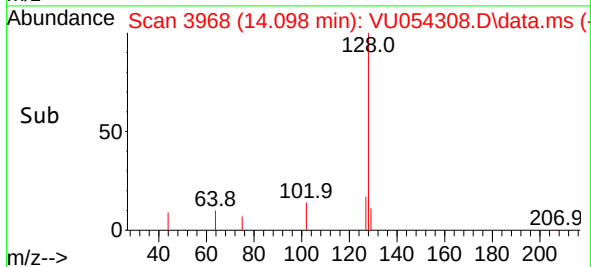
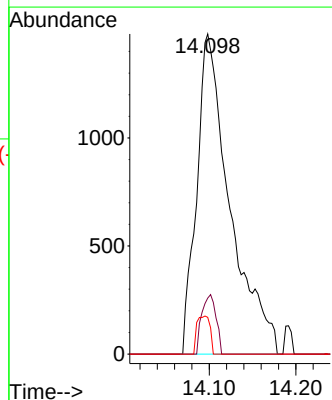
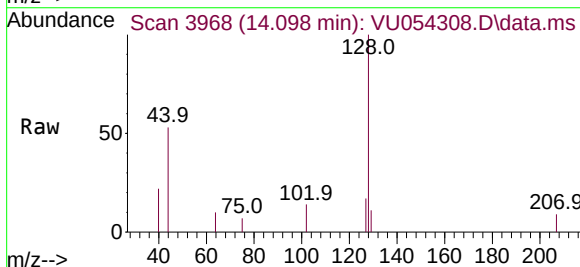
Instrument :
MSVOA_U
ClientSampleId :
RE103D1-20230523

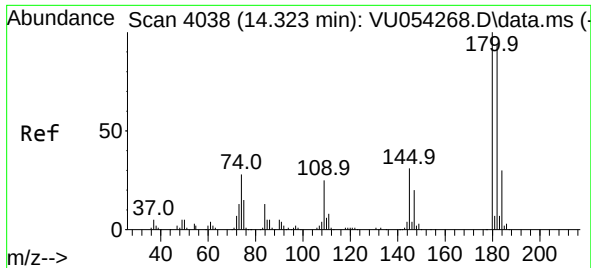
Tgt Ion:	225	Resp:	93
Ion	Ratio	Lower	Upper
225	100		
223	0.0	31.3	93.9#
227	0.0	32.0	96.2#



#95
Naphthalene
Concen: 2.240 ug/l
RT: 14.098 min Scan# 3968
Delta R.T. 0.019 min
Lab File: VU054308.D
Acq: 30 May 2023 12:59

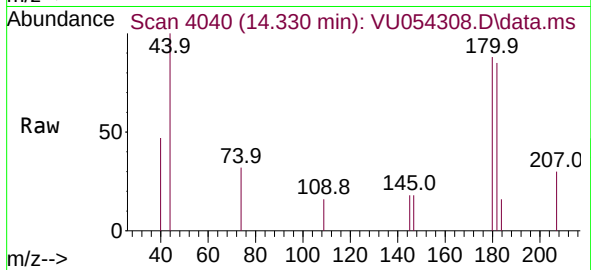
Tgt Ion:	128	Resp:	3946
Ion	Ratio	Lower	Upper
128	100		
127	7.9	10.3	15.5#
129	4.7	8.6	13.0#





#96
 1,2,3-Trichlorobenzene
 Concen: 1.449 ug/l
 RT: 14.330 min Scan# 4038
 Delta R.T. 0.007 min
 Lab File: VU054308.D
 Acq: 30 May 2023 12:59

Instrument :
 MSVOA_U
 ClientSampleId :
 RE103D1-20230523



Tgt Ion:180 Resp: 934
 Ion Ratio Lower Upper
 180 100
 182 97.4 48.4 145.0
 145 12.8 14.8 44.4#

