

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU053023\
 Data File : VU054303.D
 Acq On : 30 May 2023 10:38
 Operator : JC/MD
 Sample : VU0530WBL01
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0530WBL01

Quant Time: May 31 06:22:24 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)

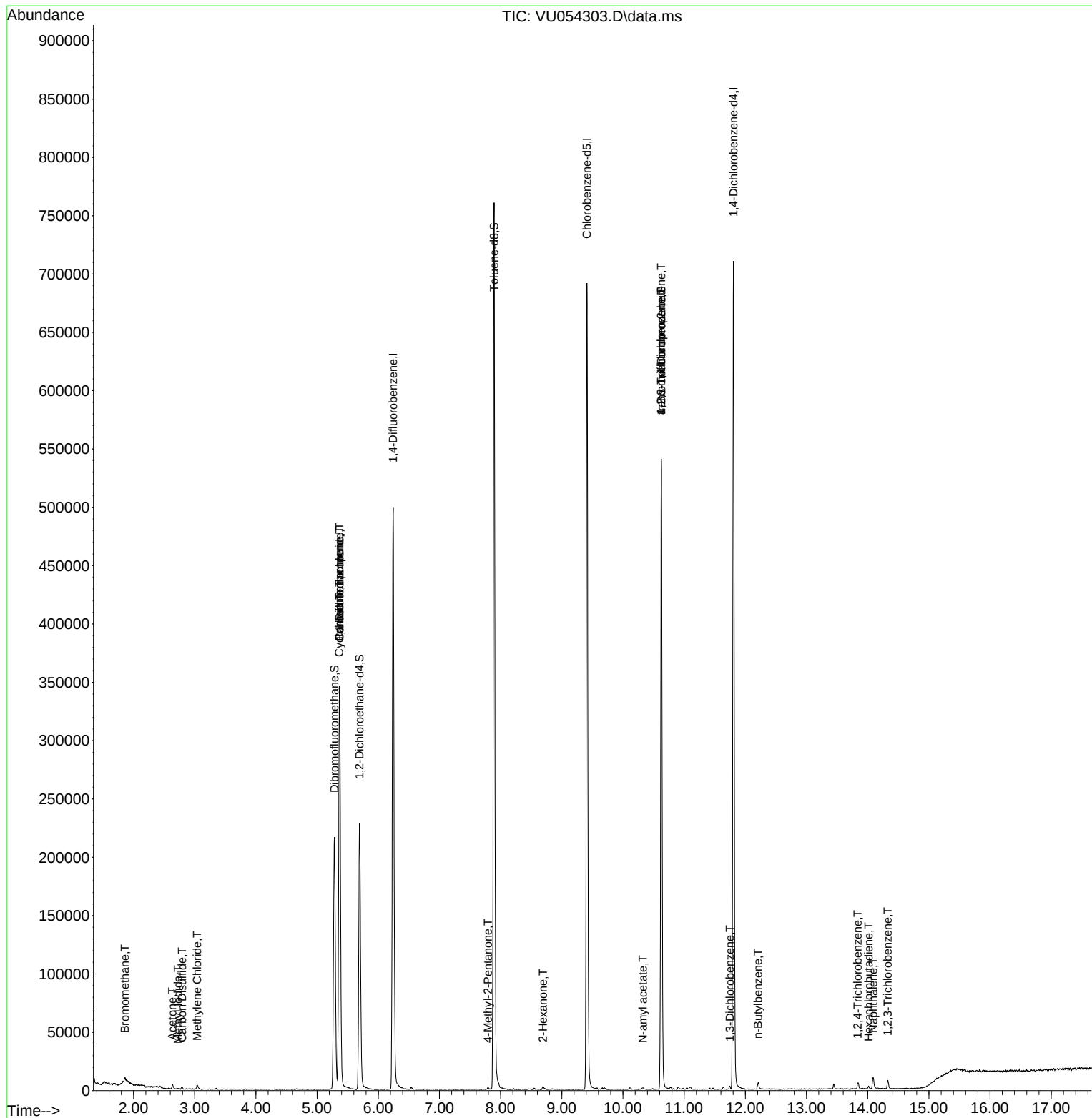
Internal Standards						
1) Pentafluorobenzene	5.366	168	250385	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.244	114	415891	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.411	117	393028	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.806	152	192425	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.694	65	171376	52.212	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 104.420%			
35) Dibromofluoromethane	5.282	113	139836	52.212	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.420%			
50) Toluene-d8	7.893	98	513655	50.422	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 100.840%			
62) 4-Bromofluorobenzene	10.626	95	179591	45.466	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 90.940%			
Target Compounds					Qvalue	
5) Bromomethane	1.858	94	479	0.248	ug/l	98
10) Methyl Iodide	2.729	142	427	2.462	ug/l #	43
16) Acetone	2.636	43	1378	0.732	ug/l #	84
17) Carbon Disulfide	2.794	76	2363	0.297	ug/l	99
20) Methylene Chloride	3.038	84	1919	0.565	ug/l	95
31) Cyclohexane	5.363	56	5140	1.109	ug/l #	2
36) 1,1-Dichloropropene	5.366	75	19812	4.710	ug/l #	48
38) Carbon Tetrachloride	5.366	117	23952	5.563	ug/l #	17
51) 4-Methyl-2-Pentanone	7.794	43	1391	0.295	ug/l #	85
59) 2-Hexanone	8.694	43	1861	0.499	ug/l #	50
74) N-amyl acetate	10.324	43	1268	0.251	ug/l #	80
76) 1,2,3-Trichloropropane	10.626	75	90571	16.127	ug/l #	45
81) trans-1,4-Dichloro-2-b...	10.626	75	90571	61.411	ug/l #	15
87) 1,3-Dichlorobenzene	11.745	146	1289	0.203	ug/l	97
89) n-Butylbenzene	12.205	91	2920	0.287	ug/l	94
93) 1,2,4-Trichlorobenzene	13.835	180	2242	2.133	ug/l	97
94) Hexachlorobutadiene	14.015	225	501	1.061	ug/l	81
95) Naphthalene	14.089	128	10793	2.719	ug/l	99
96) 1,2,3-Trichlorobenzene	14.327	180	2881	1.895	ug/l	96

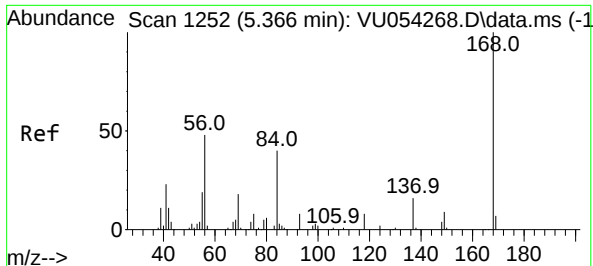
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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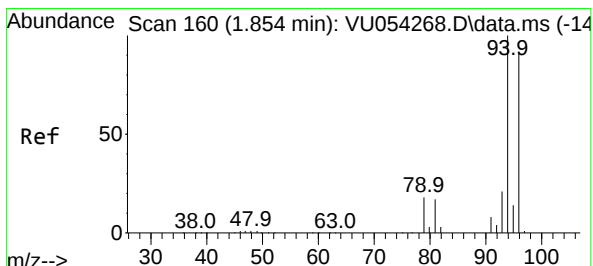
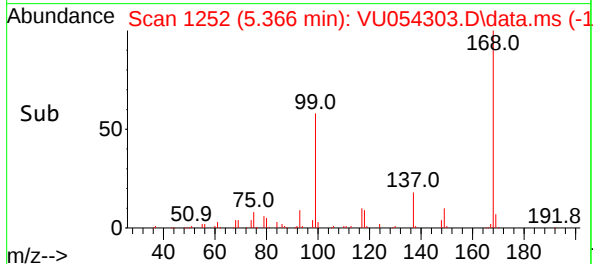
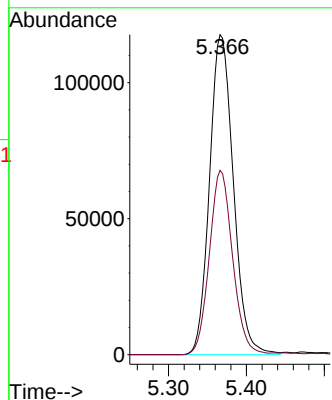
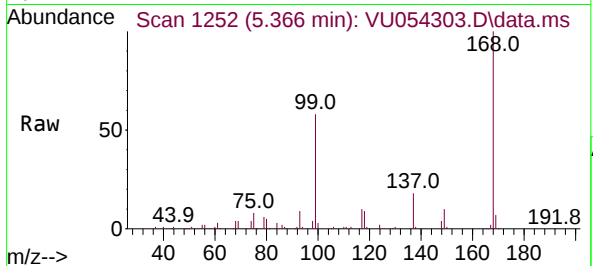




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.366 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU054303.D
Acq: 30 May 2023 10:38

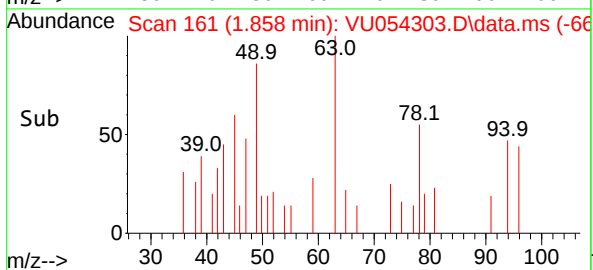
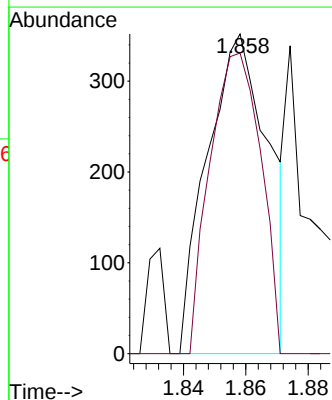
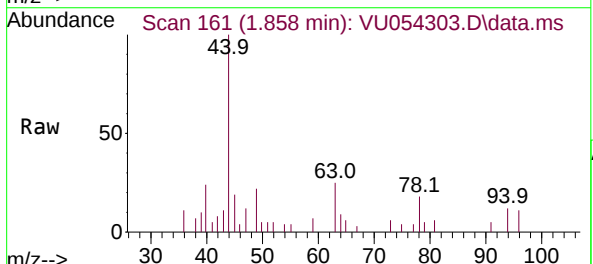
Instrument :
MSVOA_U
ClientSampleId :
VU0530WBL01

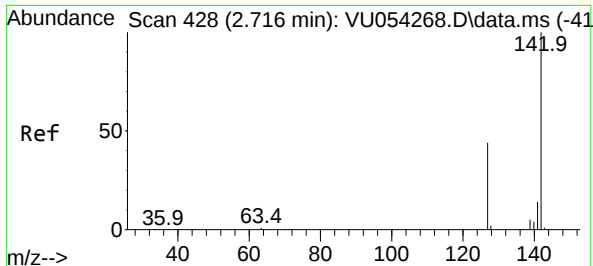
Tgt Ion:168 Resp: 250385
Ion Ratio Lower Upper
168 100
99 57.6 39.3 58.9



#5
Bromomethane
Concen: 0.248 ug/l
RT: 1.858 min Scan# 161
Delta R.T. 0.004 min
Lab File: VU054303.D
Acq: 30 May 2023 10:38

Tgt Ion: 94 Resp: 479
Ion Ratio Lower Upper
94 100
96 94.0 73.7 110.5

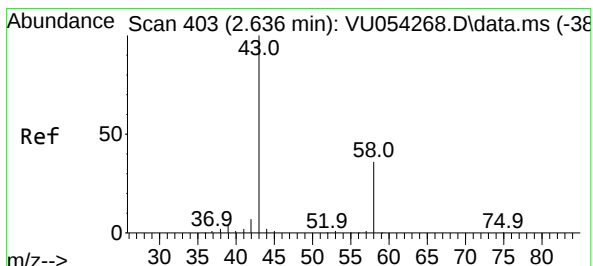
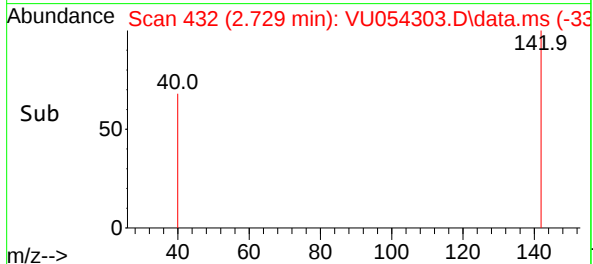
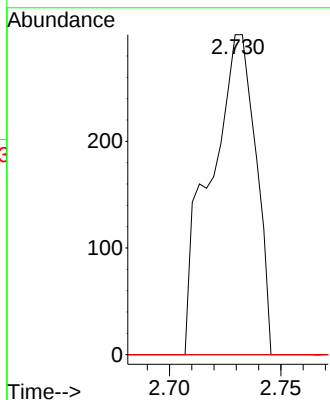
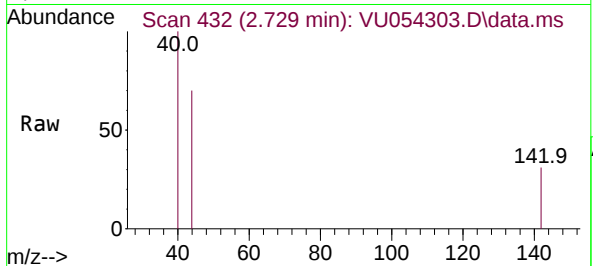




#10
Methyl Iodide
Concen: 2.462 ug/l
RT: 2.729 min Scan# 41
Delta R.T. 0.013 min
Lab File: VU054303.D
Acq: 30 May 2023 10:38

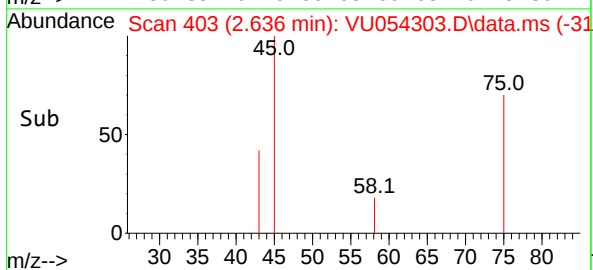
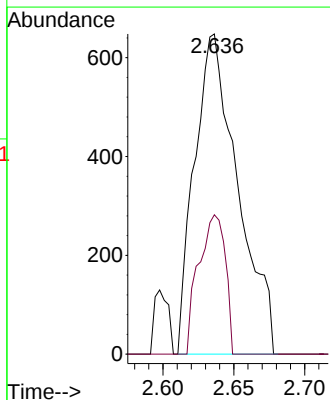
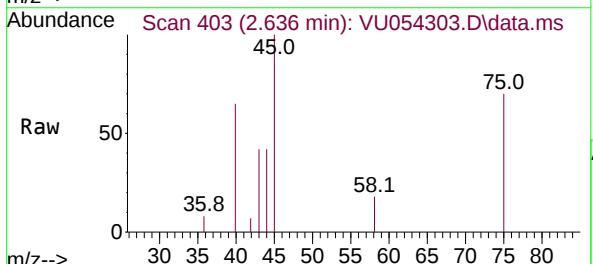
Instrument :
MSVOA_U
ClientSampleId :
VU0530WBL01

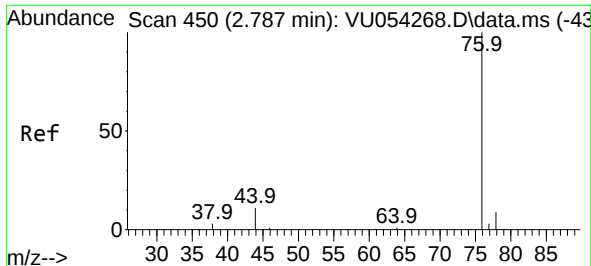
Tgt Ion:142 Resp: 427
Ion Ratio Lower Upper
142 100
127 0.0 32.5 48.7#
141 0.0 11.4 17.0#



#16
Acetone
Concen: 0.732 ug/l
RT: 2.636 min Scan# 403
Delta R.T. 0.000 min
Lab File: VU054303.D
Acq: 30 May 2023 10:38

Tgt Ion: 43 Resp: 1378
Ion Ratio Lower Upper
43 100
58 43.5 27.5 41.3#

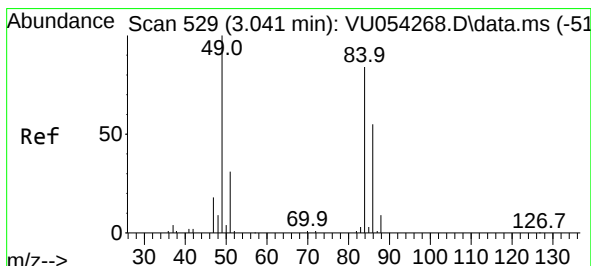
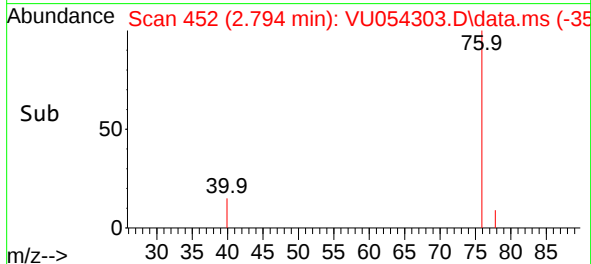
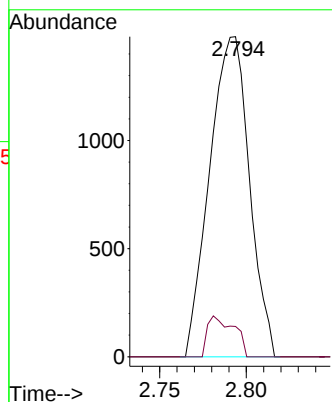
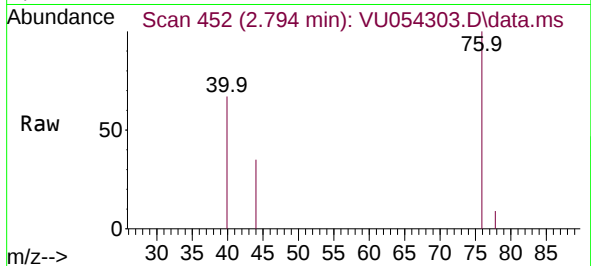




#17
Carbon Disulfide
Concen: 0.297 ug/l
RT: 2.794 min Scan# 41
Delta R.T. 0.007 min
Lab File: VU054303.D
Acq: 30 May 2023 10:38

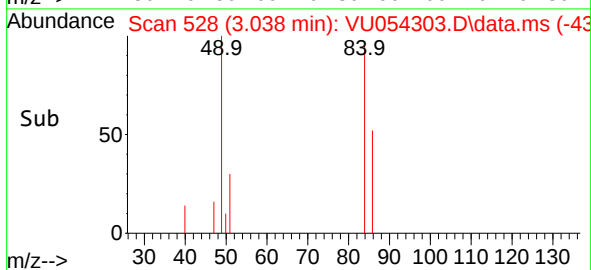
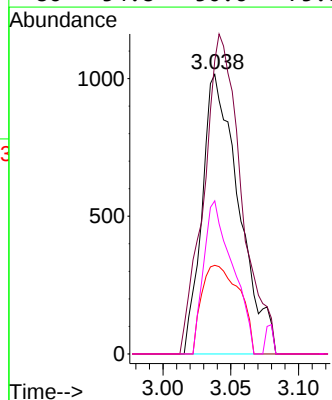
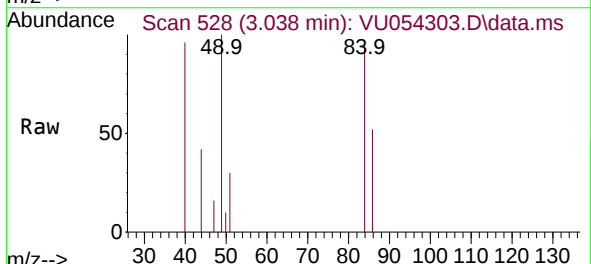
Instrument :
MSVOA_U
ClientSampleId :
VU0530WBL01

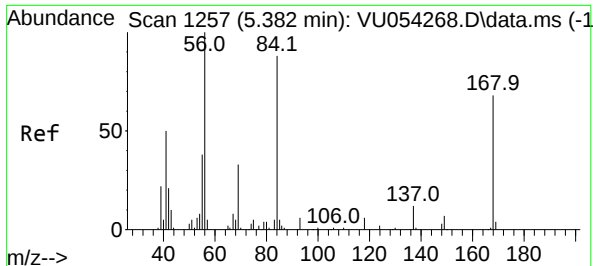
Tgt Ion: 76 Resp: 2363
Ion Ratio Lower Upper
76 100
78 9.5 7.3 10.9



#20
Methylene Chloride
Concen: 0.565 ug/l
RT: 3.038 min Scan# 528
Delta R.T. -0.003 min
Lab File: VU054303.D
Acq: 30 May 2023 10:38

Tgt Ion: 84 Resp: 1919
Ion Ratio Lower Upper
84 100
49 104.9 86.6 129.8
51 31.7 26.6 40.0
86 54.8 50.6 75.8





#31

Cyclohexane

Concen: 1.109 ug/l

RT: 5.363 min Scan# 1

Delta R.T. -0.019 min

Lab File: VU054303.D

Acq: 30 May 2023 10:38

Instrument :

MSVOA_U

ClientSampleId :

VU0530WBL01

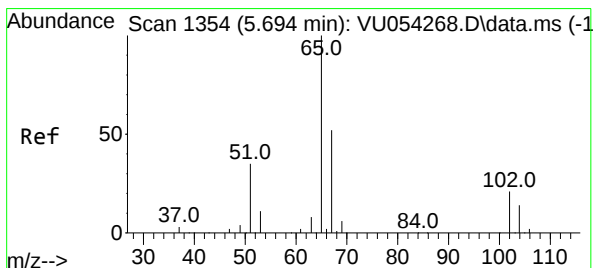
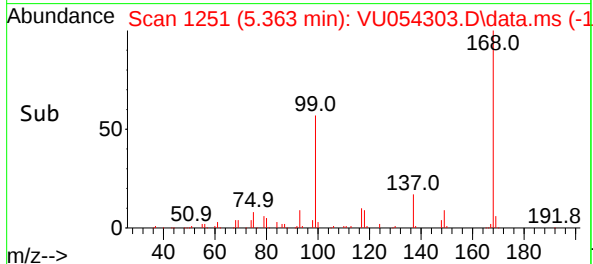
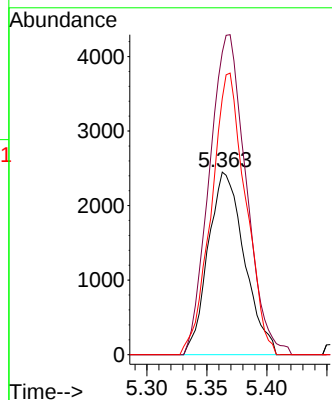
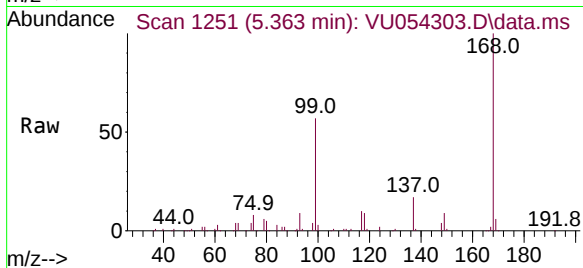
Tgt Ion: 56 Resp: 5140

Ion Ratio Lower Upper

56 100

69 165.6 27.8 41.8#

84 140.4 74.2 111.4#



#33

1,2-Dichloroethane-d4

Concen: 52.212 ug/l

RT: 5.694 min Scan# 1354

Delta R.T. 0.000 min

Lab File: VU054303.D

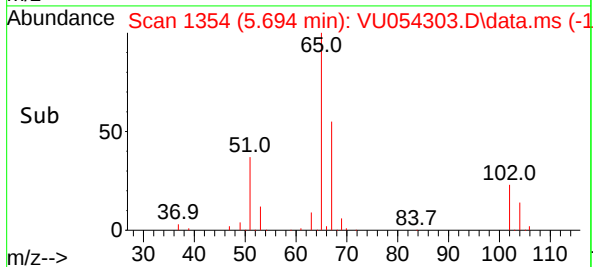
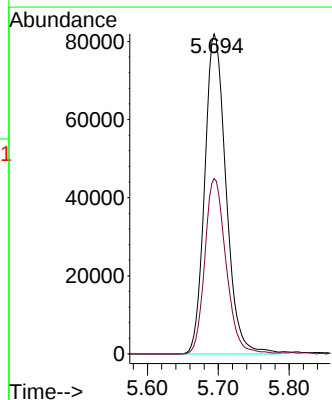
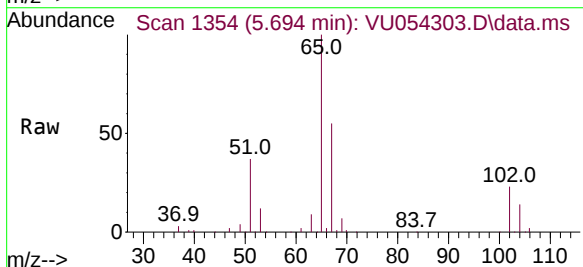
Acq: 30 May 2023 10:38

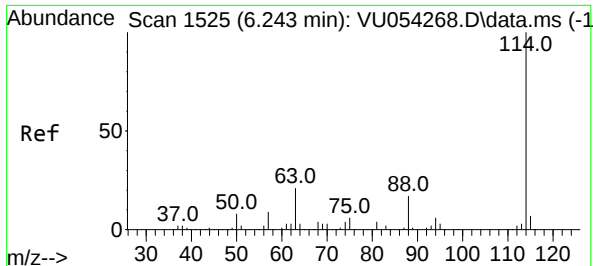
Tgt Ion: 65 Resp: 171376

Ion Ratio Lower Upper

65 100

67 54.5 0.0 108.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.244 min Scan# 11

Delta R.T. 0.001 min

Lab File: VU054303.D

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ClientSampleId :

VU0530WBL01

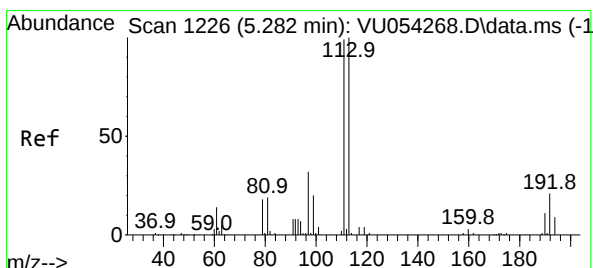
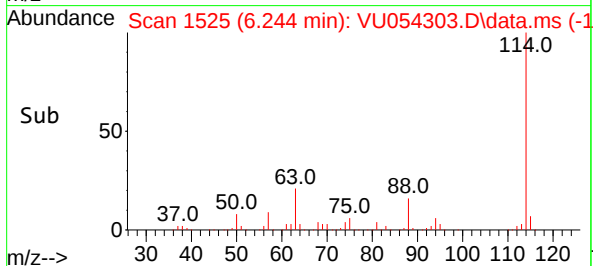
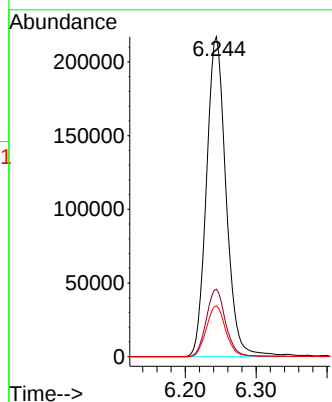
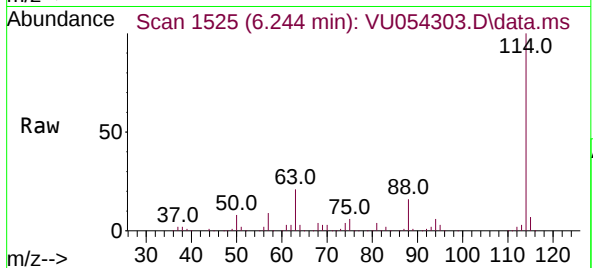
Tgt Ion:114 Resp: 415891

Ion Ratio Lower Upper

114 100

63 21.1 0.0 37.8

88 15.9 0.0 29.2



#35

Dibromofluoromethane

Concen: 52.212 ug/l

RT: 5.282 min Scan# 1226

Delta R.T. 0.000 min

Lab File: VU054303.D

Acq: 30 May 2023 10:38

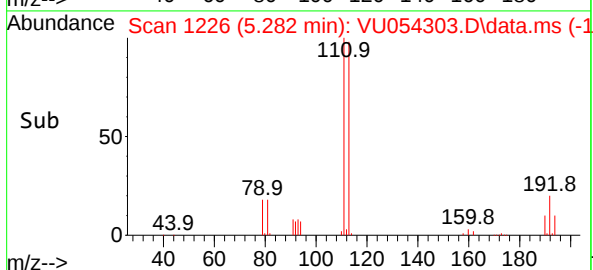
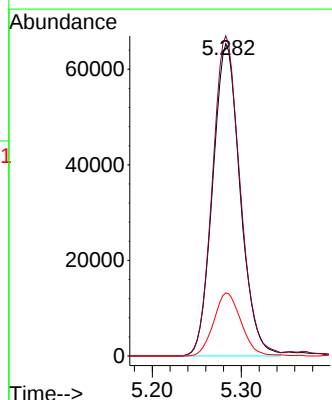
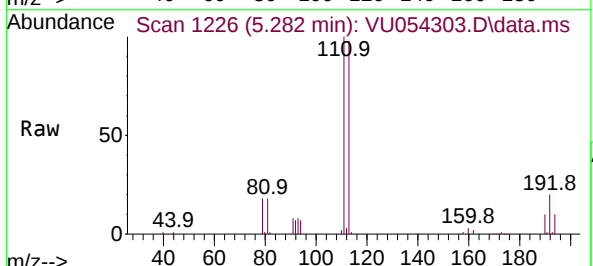
Tgt Ion:113 Resp: 139836

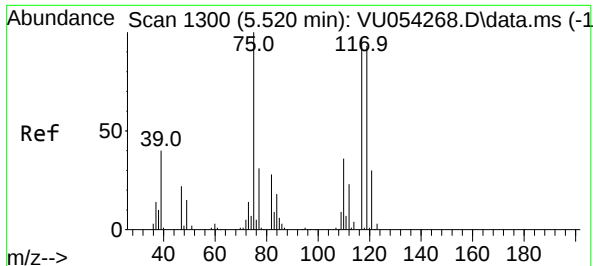
Ion Ratio Lower Upper

113 100

111 103.3 82.1 123.1

192 20.2 18.0 27.0





#36

1,1-Dichloropropene

Concen: 4.710 ug/l

RT: 5.366 min Scan# 1252

Delta R.T. -0.154 min

Lab File: VU054303.D

Acq: 30 May 2023 10:38

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VU0530WBL01

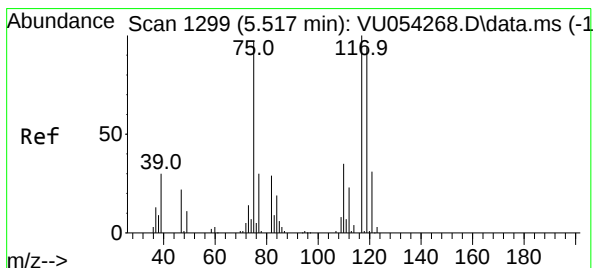
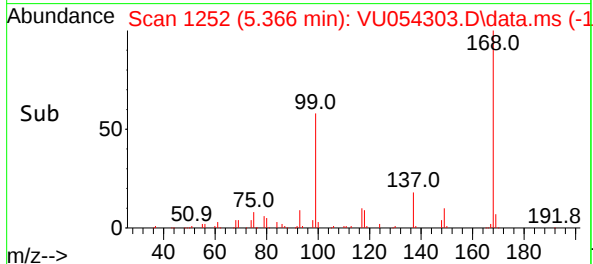
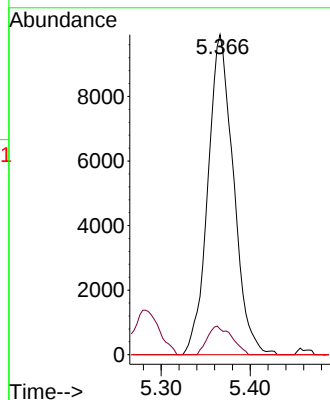
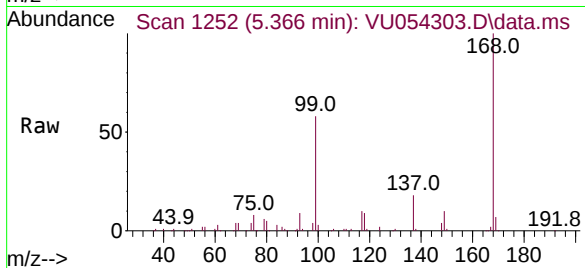
Tgt Ion: 75 Resp: 19812

Ion Ratio Lower Upper

75 100

110 8.5 18.4 55.2#

77 0.0 25.1 37.7#



#38

Carbon Tetrachloride

Concen: 5.563 ug/l

RT: 5.366 min Scan# 1252

Delta R.T. -0.151 min

Lab File: VU054303.D

Acq: 30 May 2023 10:38

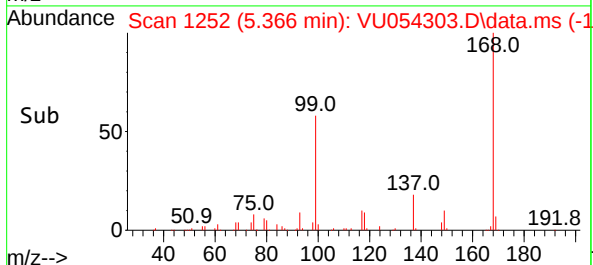
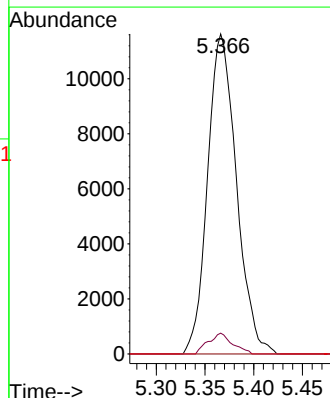
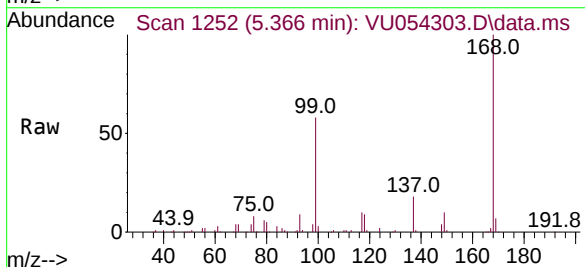
Tgt Ion: 117 Resp: 23952

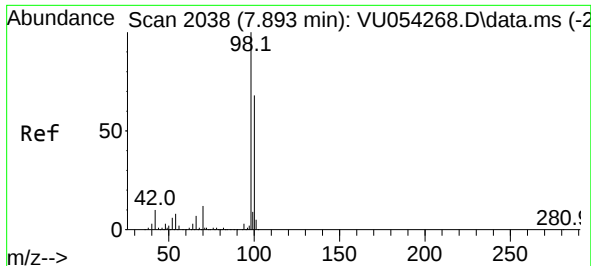
Ion Ratio Lower Upper

117 100

119 6.5 76.8 115.2#

121 0.0 24.7 37.1#

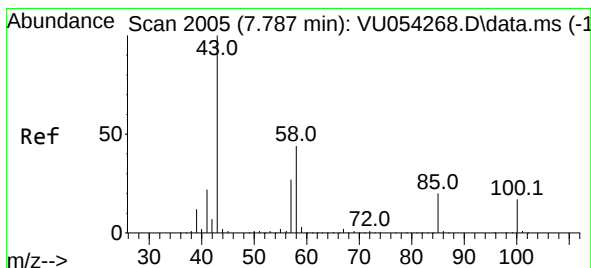
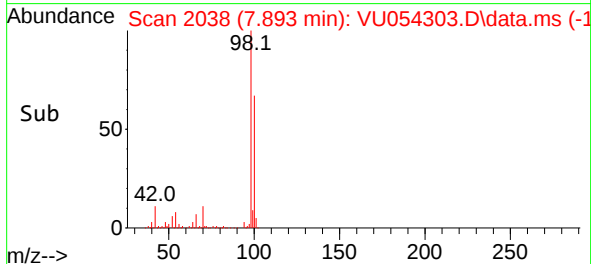
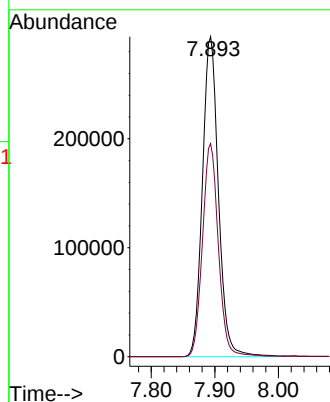
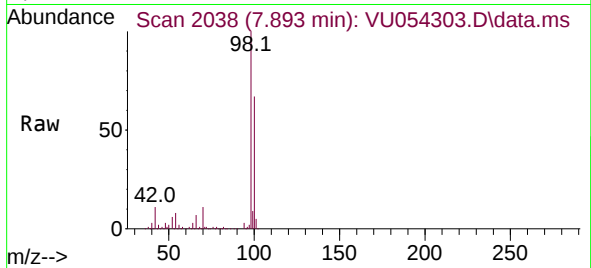




#50
Toluene-d8
Concen: 50.422 ug/l
RT: 7.893 min Scan# 2038
Delta R.T. 0.000 min
Lab File: VU054303.D
Acq: 30 May 2023 10:38

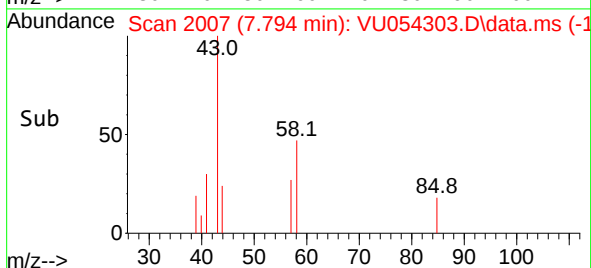
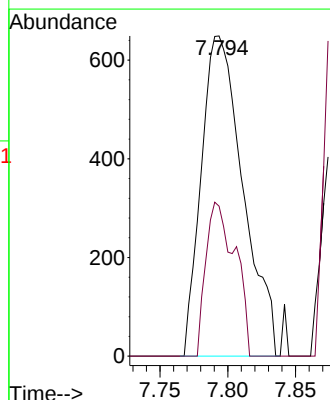
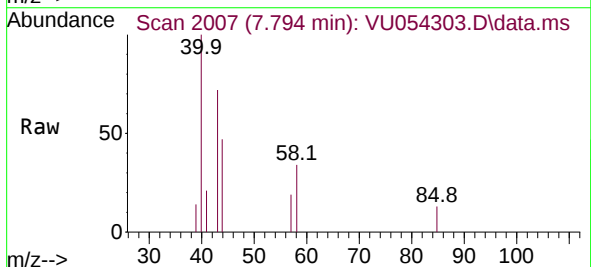
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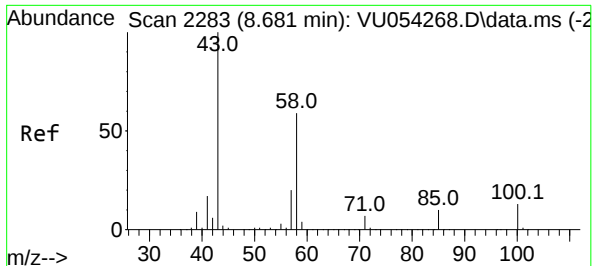
Tgt Ion: 98 Resp: 513655
Ion Ratio Lower Upper
98 100
100 66.0 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 0.295 ug/l
RT: 7.794 min Scan# 2007
Delta R.T. 0.007 min
Lab File: VU054303.D
Acq: 30 May 2023 10:38

Tgt Ion: 43 Resp: 1391
Ion Ratio Lower Upper
43 100
58 33.5 34.7 52.1#





#59

2-Hexanone

Concen: 0.499 ug/l

RT: 8.694 min Scan# 21

Delta R.T. 0.013 min

Lab File: VU054303.D

Acq: 30 May 2023 10:38

Instrument :

MSVOA_U

ClientSampleId :

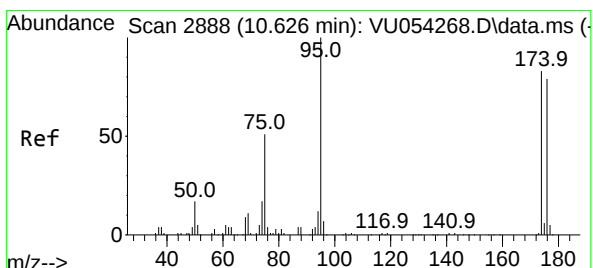
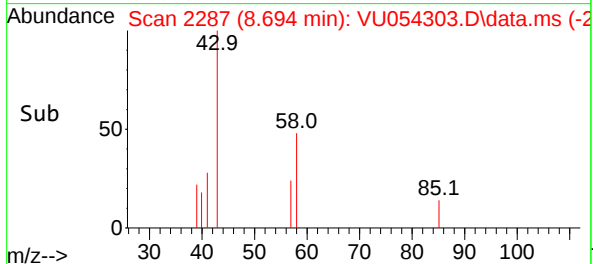
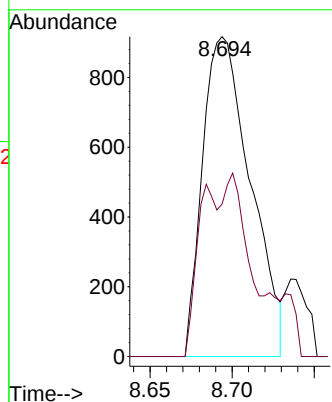
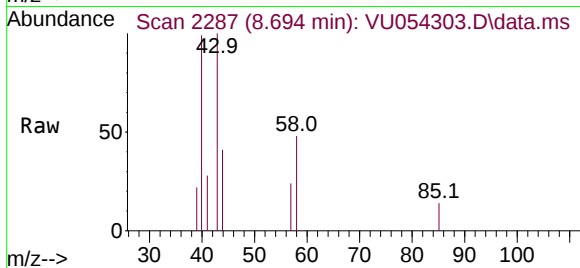
VU0530WBL01

Tgt Ion: 43 Resp: 1861

Ion Ratio Lower Upper

43 100

58 22.8 30.3 90.8#



#62

4-Bromofluorobenzene

Concen: 45.466 ug/l

RT: 10.626 min Scan# 2888

Delta R.T. 0.000 min

Lab File: VU054303.D

Acq: 30 May 2023 10:38

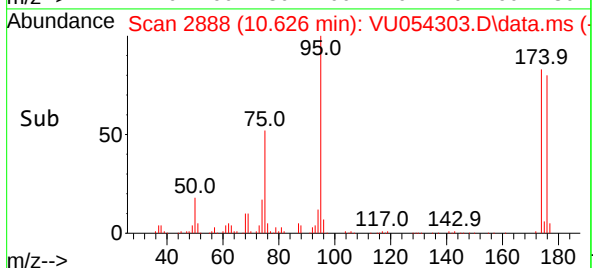
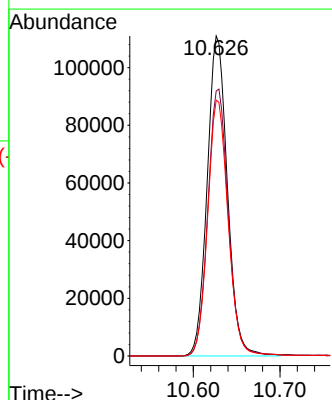
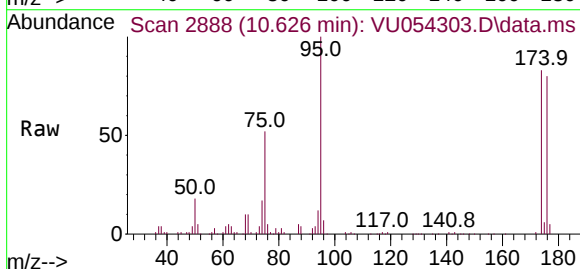
Tgt Ion: 95 Resp: 179591

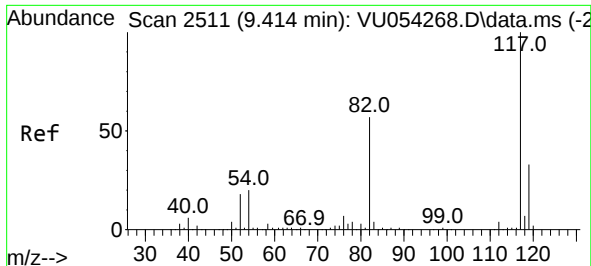
Ion Ratio Lower Upper

95 100

174 84.7 0.0 182.0

176 80.9 0.0 177.8

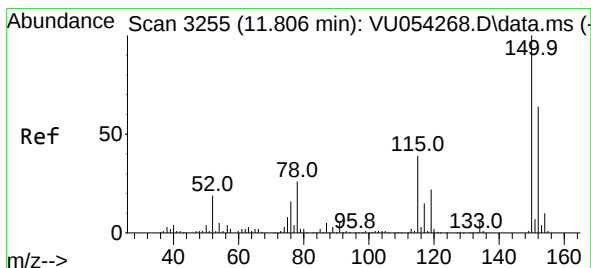
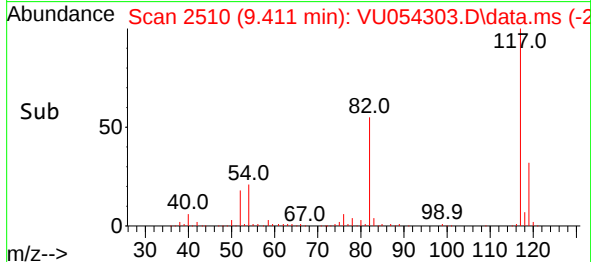
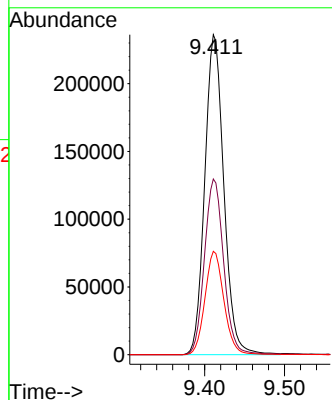
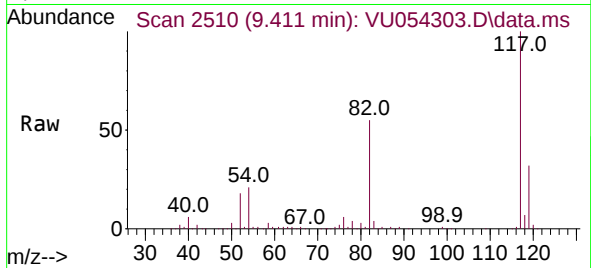




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.411 min Scan# 2510
Delta R.T. -0.003 min
Lab File: VU054303.D
Acq: 30 May 2023 10:38

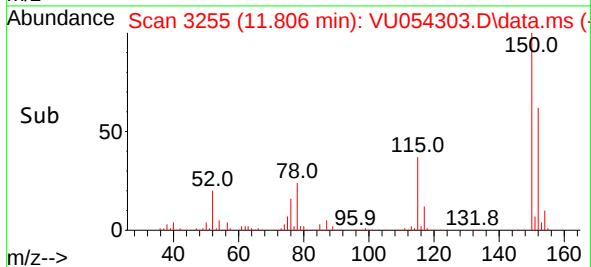
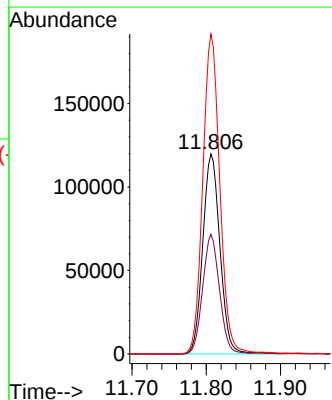
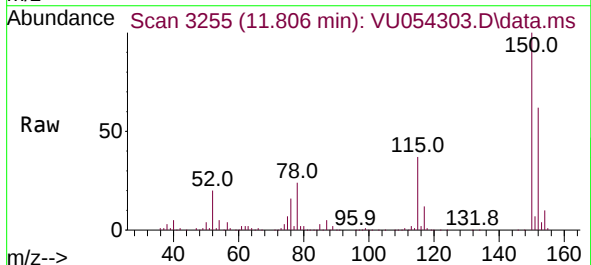
Instrument :
MSVOA_U
ClientSampleId :
VU0530WBL01

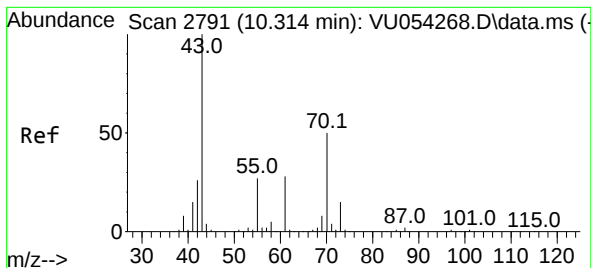
Tgt Ion:117 Resp: 393028
Ion Ratio Lower Upper
117 100
82 54.9 41.7 62.5
119 32.3 25.7 38.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.806 min Scan# 3255
Delta R.T. 0.000 min
Lab File: VU054303.D
Acq: 30 May 2023 10:38

Tgt Ion:152 Resp: 192425
Ion Ratio Lower Upper
152 100
115 58.4 37.0 110.9
150 158.6 0.0 342.2





#74

N-amy1 acetate

Concen: 0.251 ug/l

RT: 10.324 min Scan# 21

Delta R.T. 0.010 min

Lab File: VU054303.D

Acq: 30 May 2023 10:38

Instrument :

MSVOA_U

ClientSampleId :

VU0530WBL01

Tgt Ion: 43 Resp: 1268

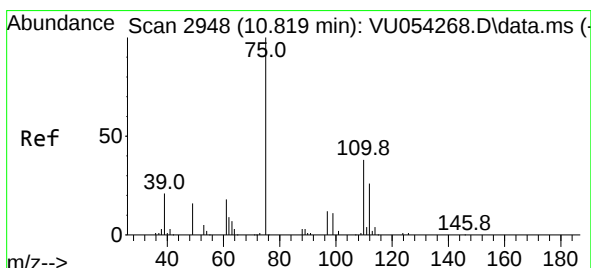
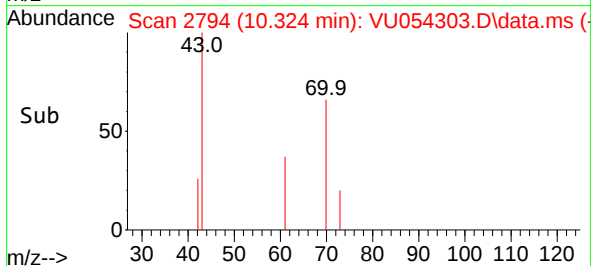
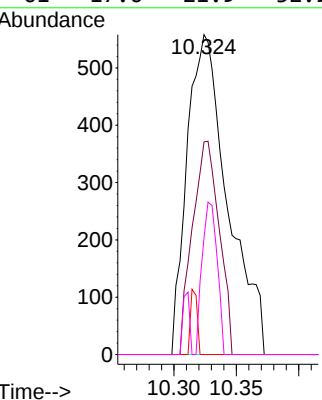
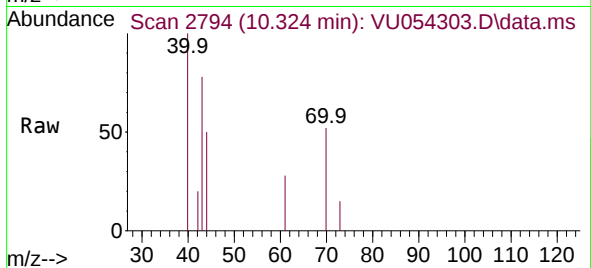
Ion Ratio Lower Upper

43 100

70 43.8 38.7 58.1

55 3.3 21.8 32.8#

61 17.6 21.9 32.9#



#76

1,2,3-Trichloropropane

Concen: 16.127 ug/l

RT: 10.626 min Scan# 2888

Delta R.T. -0.193 min

Lab File: VU054303.D

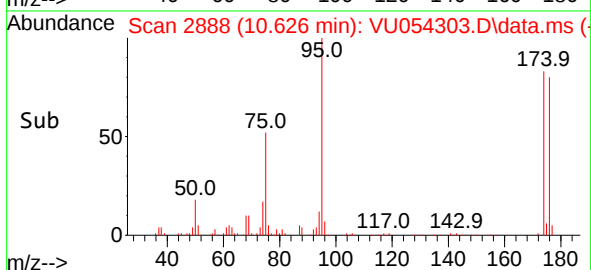
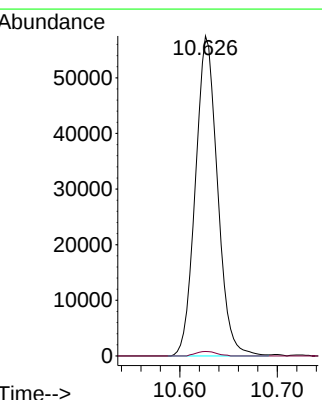
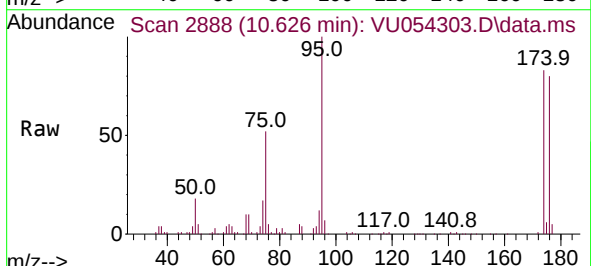
Acq: 30 May 2023 10:38

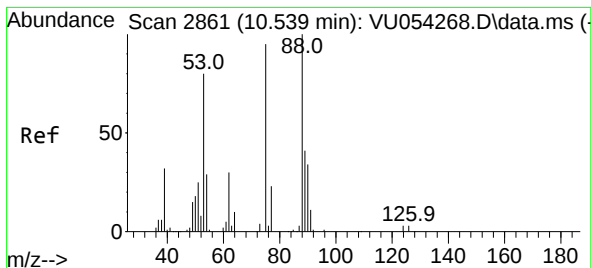
Tgt Ion: 75 Resp: 90571

Ion Ratio Lower Upper

75 100

77 1.3 15.8 47.3#

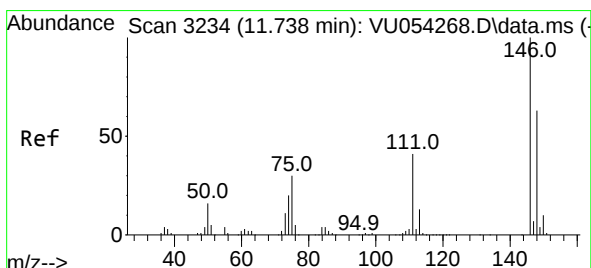
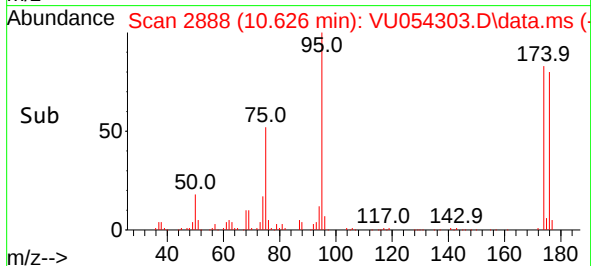
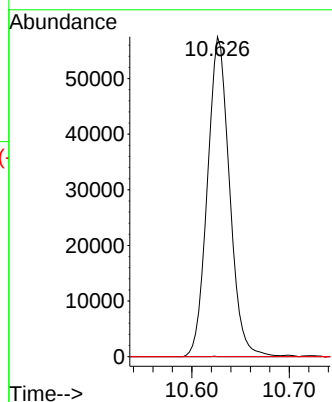
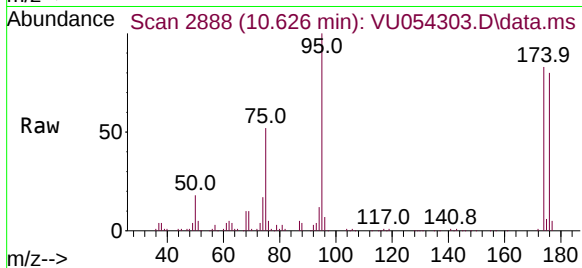




#81
trans-1,4-Dichloro-2-butene
Concen: 61.411 ug/l
RT: 10.626 min Scan# 21
Delta R.T. 0.087 min
Lab File: VU054303.D
Acq: 30 May 2023 10:38

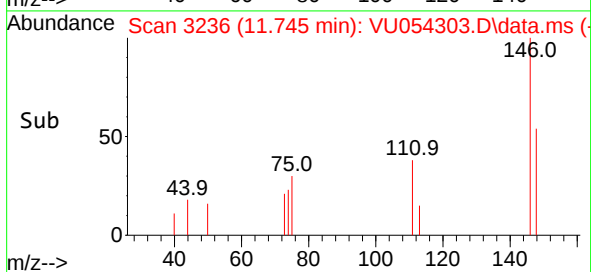
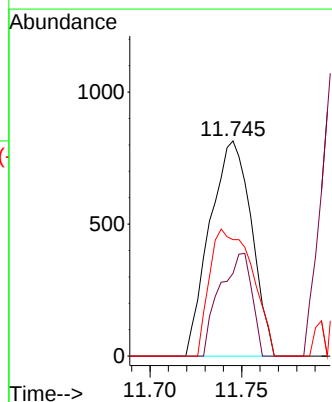
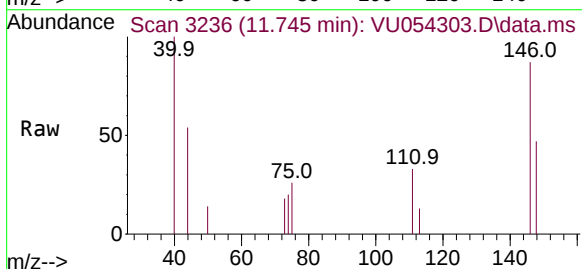
Instrument :
MSVOA_U
ClientSampleId :
VU0530WBL01

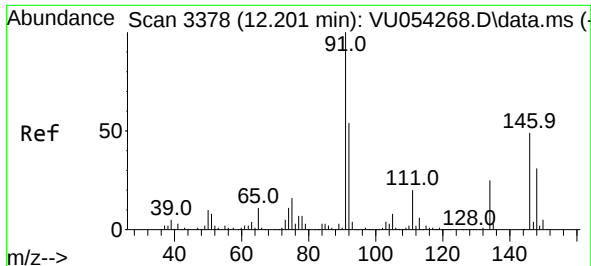
Tgt Ion: 75 Resp: 90571
Ion Ratio Lower Upper
75 100
53 0.0 69.2 103.8#
89 0.0 37.0 55.6#



#87
1,3-Dichlorobenzene
Concen: 0.203 ug/l
RT: 11.745 min Scan# 3236
Delta R.T. 0.007 min
Lab File: VU054303.D
Acq: 30 May 2023 10:38

Tgt Ion:146 Resp: 1289
Ion Ratio Lower Upper
146 100
111 36.5 18.9 56.5
148 60.5 31.9 95.9





#89

n-Butylbenzene

Concen: 0.287 ug/l

RT: 12.205 min Scan# 31

Delta R.T. 0.004 min

Lab File: VU054303.D

Acq: 30 May 2023 10:38

Instrument :

MSVOA_U

ClientSampleId :

VU0530WBL01

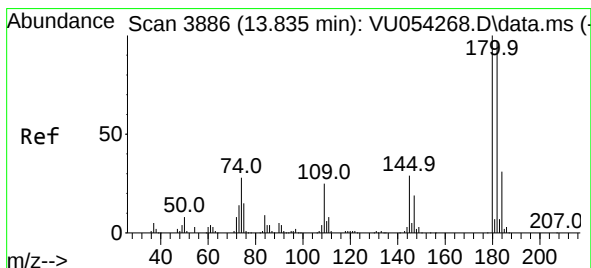
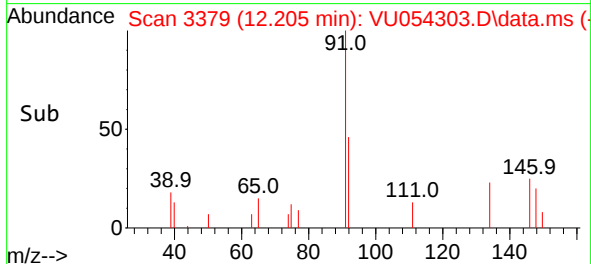
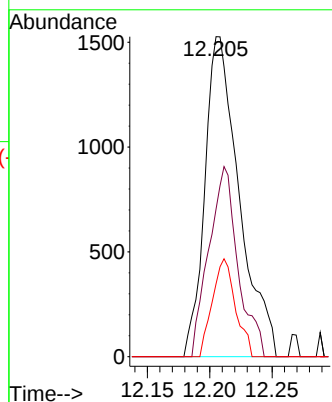
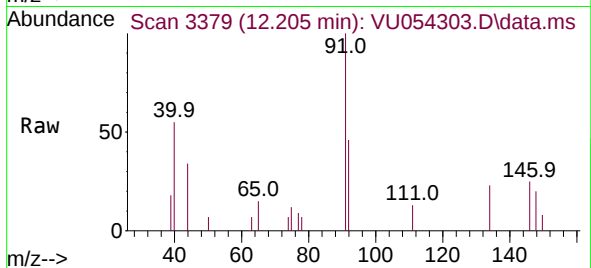
Tgt Ion: 91 Resp: 2920

Ion Ratio Lower Upper

91 100

92 50.3 26.2 78.6

134 20.7 13.5 40.4



#93

1,2,4-Trichlorobenzene

Concen: 2.133 ug/l

RT: 13.835 min Scan# 3886

Delta R.T. 0.000 min

Lab File: VU054303.D

Acq: 30 May 2023 10:38

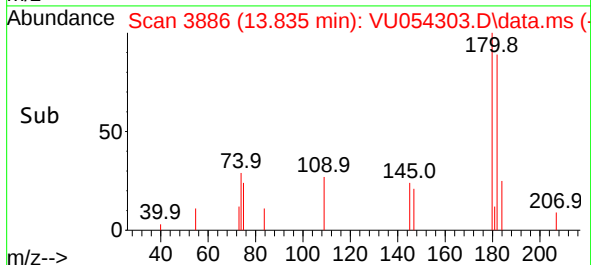
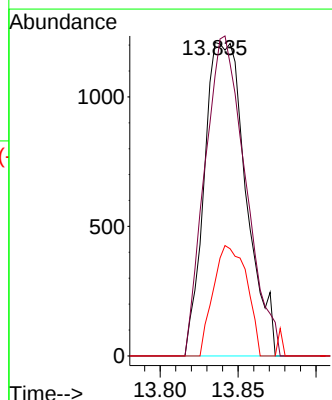
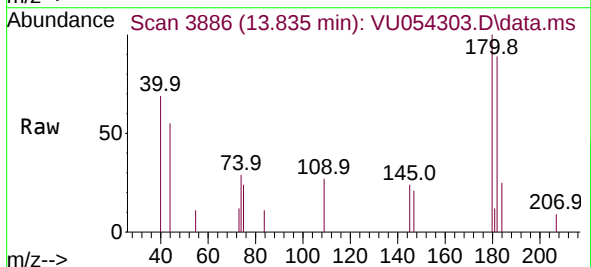
Tgt Ion:180 Resp: 2242

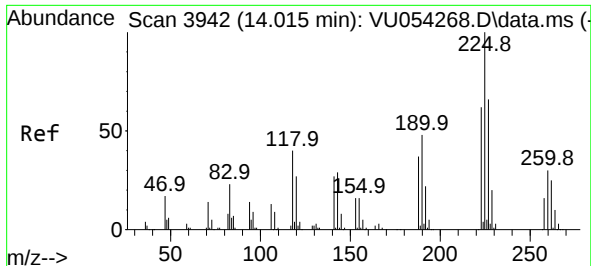
Ion Ratio Lower Upper

180 100

182 99.7 47.9 143.6

145 28.3 14.0 41.9

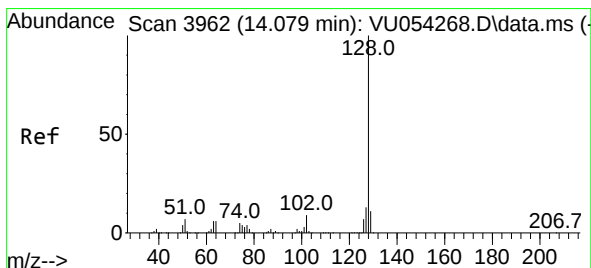
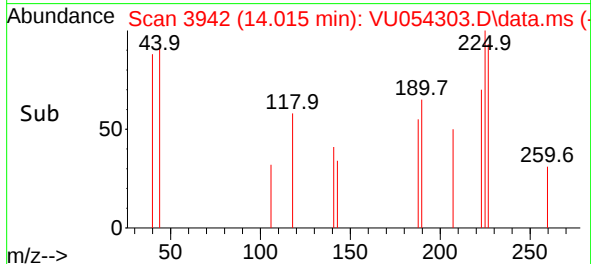
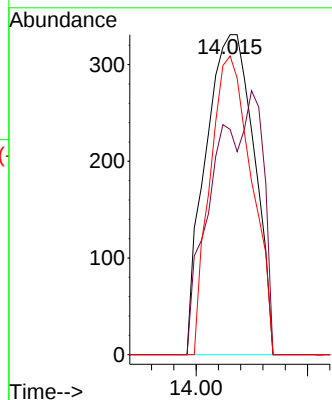
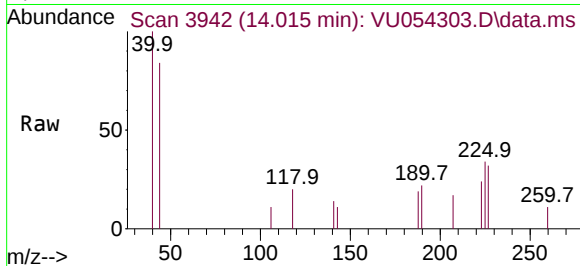




#94
Hexachlorobutadiene
Concen: 1.061 ug/l
RT: 14.015 min Scan# 3942
Delta R.T. 0.000 min
Lab File: VU054303.D
Acq: 30 May 2023 10:38

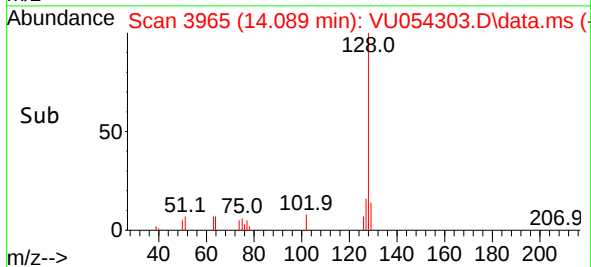
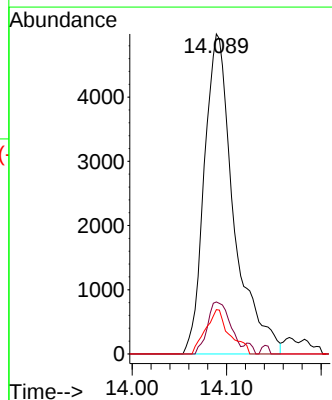
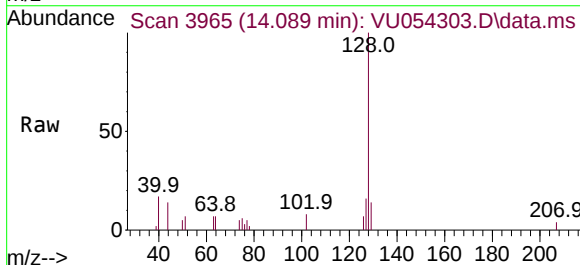
Instrument :
MSVOA_U
ClientSampleId :
VU0530WBL01

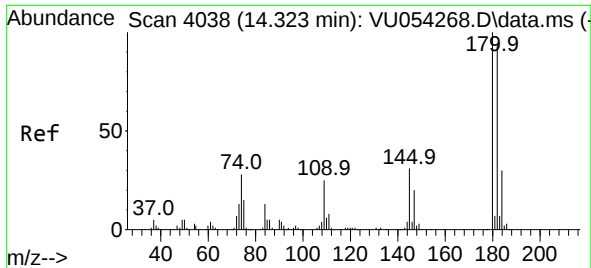
Tgt Ion:	225	Resp:	501
Ion	Ratio	Lower	Upper
225	100		
223	48.1	31.3	93.9
227	79.8	32.0	96.2



#95
Naphthalene
Concen: 2.719 ug/l
RT: 14.089 min Scan# 3965
Delta R.T. 0.010 min
Lab File: VU054303.D
Acq: 30 May 2023 10:38

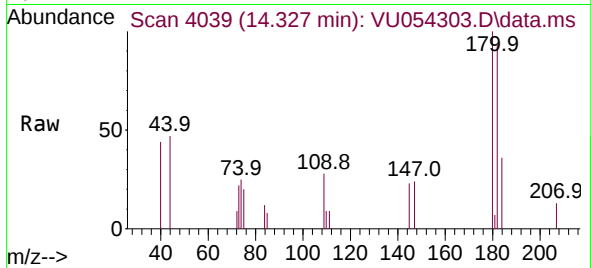
Tgt Ion:	128	Resp:	10793
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.3	15.5
129	11.1	8.6	13.0





#96
 1,2,3-Trichlorobenzene
 Concen: 1.895 ug/l
 RT: 14.327 min Scan# 40
 Delta R.T. 0.004 min
 Lab File: VU054303.D
 Acq: 30 May 2023 10:38

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0530WBL01



Tgt Ion:	180	Resp:	2881
Ion	Ratio	Lower	Upper
180	100		
182	97.8	48.4	145.0
145	23.4	14.8	44.4

