

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU053123\
 Data File : VU054356.D
 Acq On : 31 May 2023 22:56
 Operator : JC/MD
 Sample : VU0531WBL02
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0531WBL02

Quant Time: Jun 01 06:12:12 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)

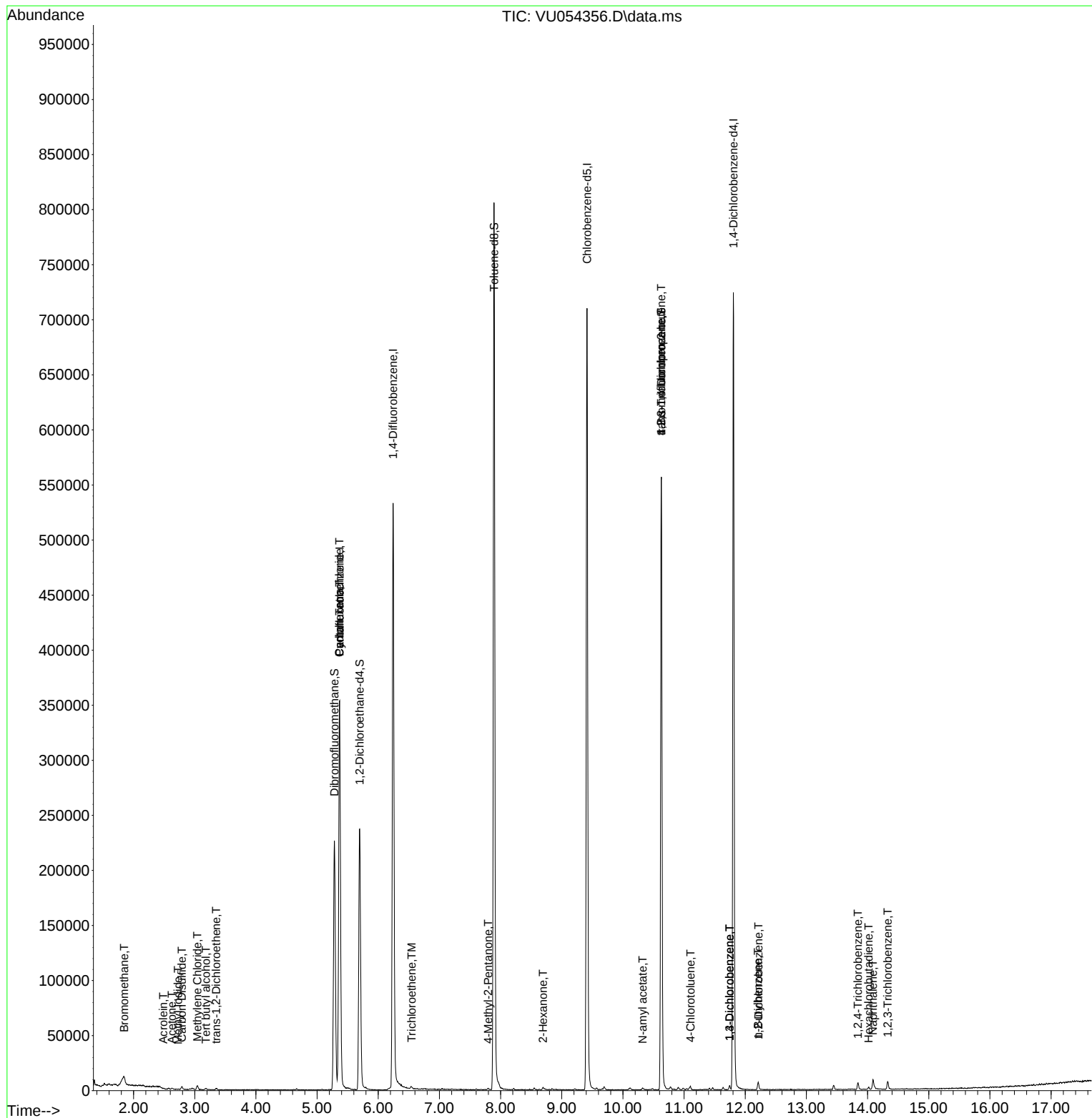
Internal Standards						
1) Pentafluorobenzene	5.369	168	257220	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.243	114	441637	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.414	117	409700	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.806	152	195879	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.697	65	180478	53.524	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 107.040%	
35) Dibromofluoromethane	5.282	113	146621	51.554	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 103.100%	
50) Toluene-d8	7.893	98	542056	50.108	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 100.220%	
62) 4-Bromofluorobenzene	10.626	95	184683	44.029	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 88.060%	
Target Compounds						
					Qvalue	
5) Bromomethane	1.848	94	632	0.318	ug/l	83
10) Methyl Iodide	2.726	142	316	2.425	ug/l #	43
11) Tert butyl alcohol	3.182	59	701	0.770	ug/l #	37
13) Acrolein	2.488	56	224	0.236	ug/l #	60
16) Acetone	2.626	43	1573	0.814	ug/l	92
17) Carbon Disulfide	2.790	76	3191	0.390	ug/l #	85
20) Methylene Chloride	3.041	84	1846	0.529	ug/l	91
21) trans-1,2-Dichloroethene	3.349	96	622	0.210	ug/l	95
31) Cyclohexane	5.365	56	4764	1.001	ug/l #	1
38) Carbon Tetrachloride	5.365	117	24624	5.386	ug/l #	16
44) Trichloroethene	6.545	130	737	0.207	ug/l	91
51) 4-Methyl-2-Pentanone	7.796	43	1833	0.366	ug/l #	55
59) 2-Hexanone	8.693	43	1882	0.475	ug/l	92
74) N-amyl acetate	10.323	43	1153	0.224	ug/l #	78
76) 1,2,3-Trichloropropane	10.626	75	93130	16.290	ug/l #	45
81) trans-1,4-Dichloro-2-b...	10.626	75	93130	62.032	ug/l #	15
82) 4-Chlorotoluene	11.105	91	2141	0.203	ug/l	88
87) 1,3-Dichlorobenzene	11.745	146	1901	0.295	ug/l	92
88) 1,4-Dichlorobenzene	11.745	146	1901	0.282	ug/l	91
89) n-Butylbenzene	12.208	91	3414	0.329	ug/l	89
91) 1,2-Dichlorobenzene	12.217	146	1370	0.216	ug/l	91
93) 1,2,4-Trichlorobenzene	13.841	180	2432	2.165	ug/l	92
94) Hexachlorobutadiene	14.018	225	285	0.955	ug/l #	13
95) Naphthalene	14.089	128	10006	2.654	ug/l	100
96) 1,2,3-Trichlorobenzene	14.330	180	3054	1.922	ug/l	93

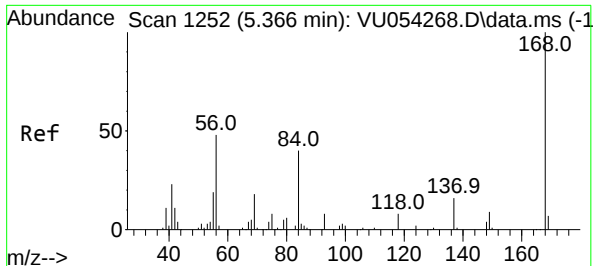
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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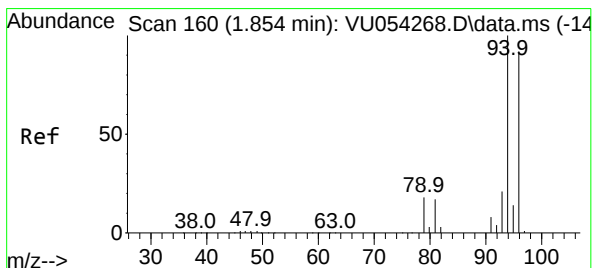
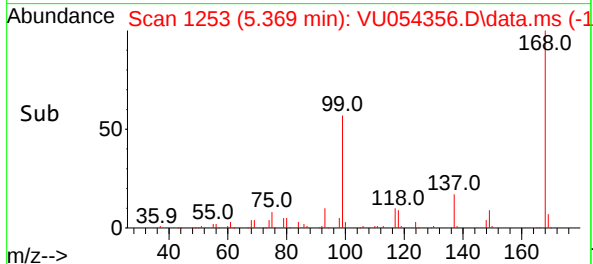
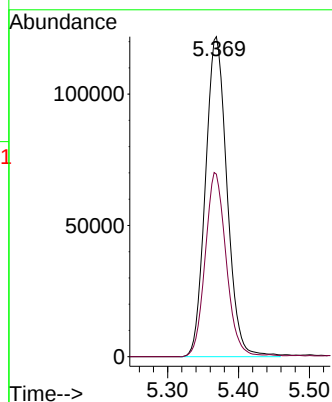
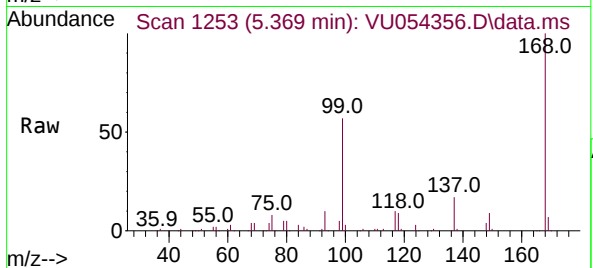




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.369 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU054356.D
Acq: 31 May 2023 22:56

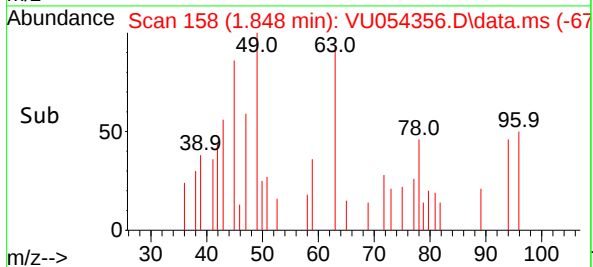
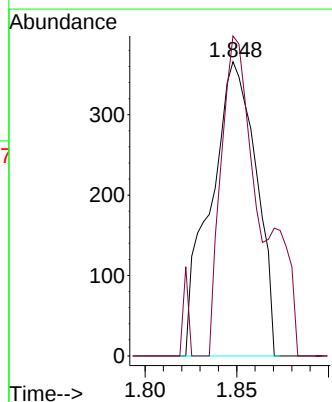
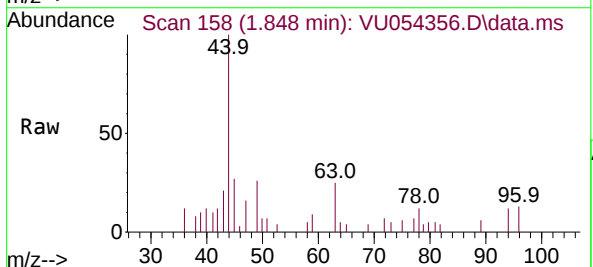
Instrument :
MSVOA_U
ClientSampleId :
VU0531WBL02

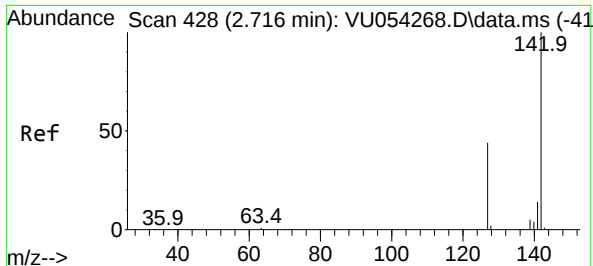
Tgt Ion:168 Resp: 257220
Ion Ratio Lower Upper
168 100
99 57.0 39.3 58.9



#5
Bromomethane
Concen: 0.318 ug/l
RT: 1.848 min Scan# 158
Delta R.T. -0.006 min
Lab File: VU054356.D
Acq: 31 May 2023 22:56

Tgt Ion: 94 Resp: 632
Ion Ratio Lower Upper
94 100
96 108.7 73.7 110.5

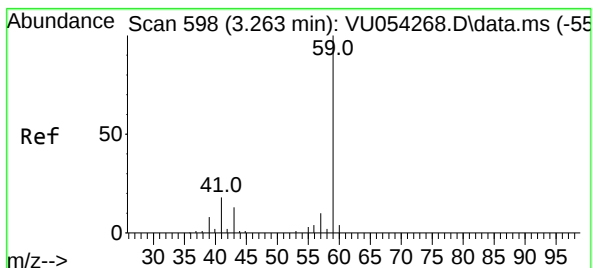
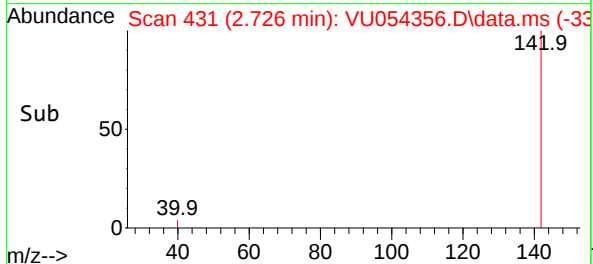
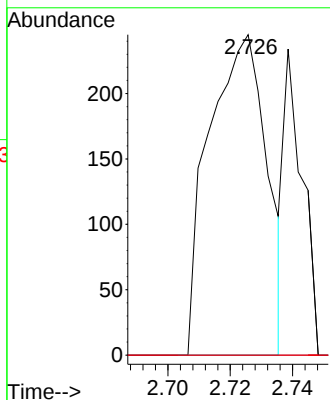
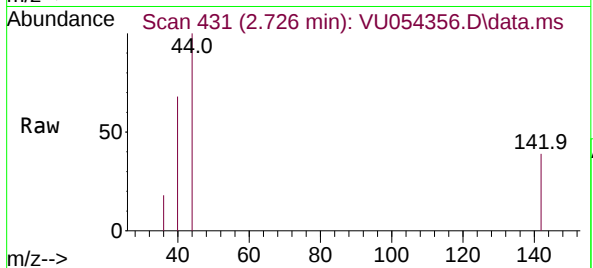




#10
Methyl Iodide
Concen: 2.425 ug/l
RT: 2.726 min Scan# 41
Delta R.T. 0.010 min
Lab File: VU054356.D
Acq: 31 May 2023 22:56

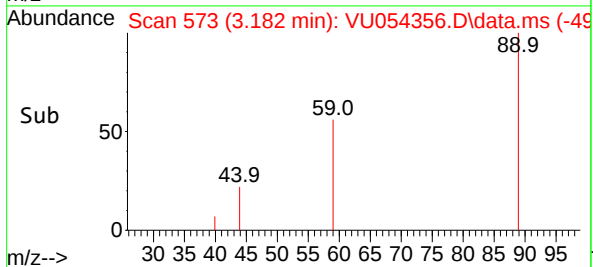
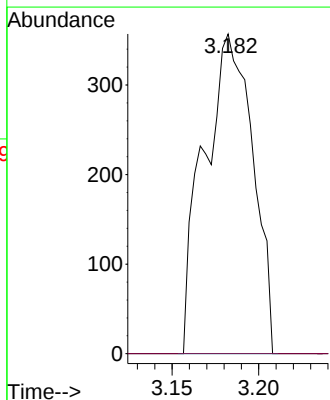
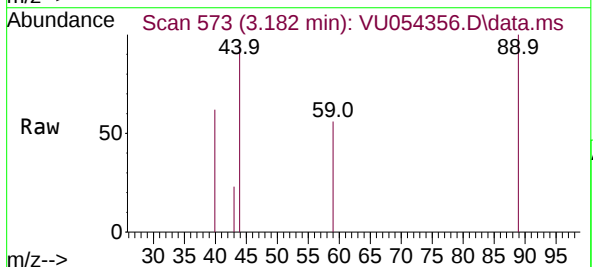
Instrument :
MSVOA_U
ClientSampleId :
VU0531WBL02

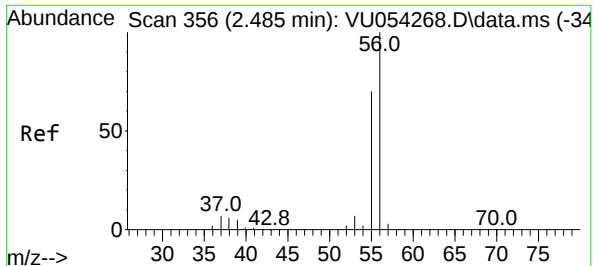
Tgt Ion:142 Resp: 316
Ion Ratio Lower Upper
142 100
127 0.0 32.5 48.7#
141 0.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 0.770 ug/l
RT: 3.182 min Scan# 573
Delta R.T. -0.061 min
Lab File: VU054356.D
Acq: 31 May 2023 22:56

Tgt Ion: 59 Resp: 701
Ion Ratio Lower Upper
59 100
57 0.0 30.6 45.8#





#13

Acrolein

Concen: 0.236 ug/l

RT: 2.488 min Scan# 31

Delta R.T. 0.003 min

Lab File: VU054356.D

Acq: 31 May 2023 22:56

Instrument :

MSVOA_U

ClientSampleId :

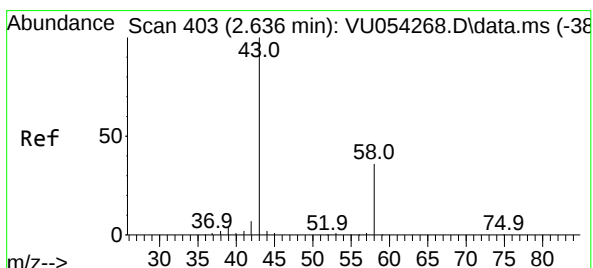
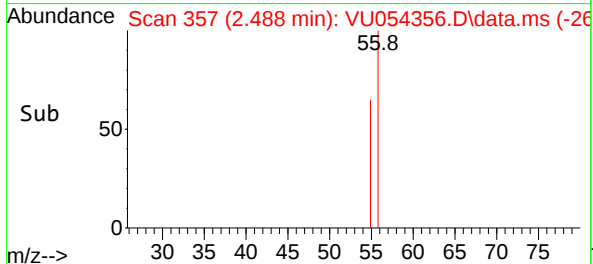
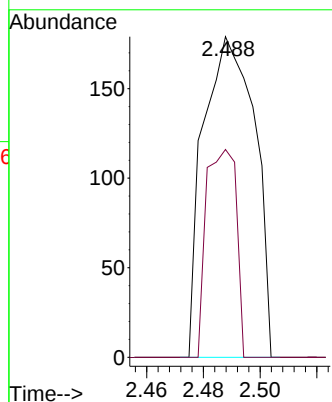
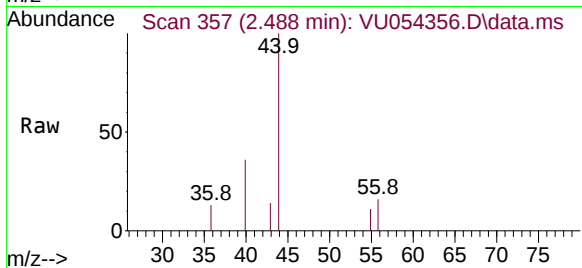
VU0531WBL02

Tgt Ion: 56 Resp: 224

Ion Ratio Lower Upper

56 100

55 37.9 56.6 85.0#



#16

Acetone

Concen: 0.814 ug/l

RT: 2.626 min Scan# 400

Delta R.T. -0.010 min

Lab File: VU054356.D

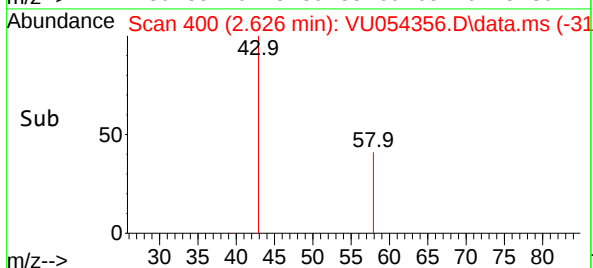
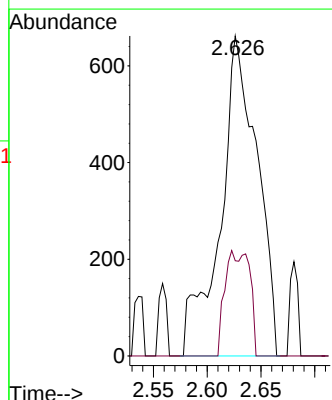
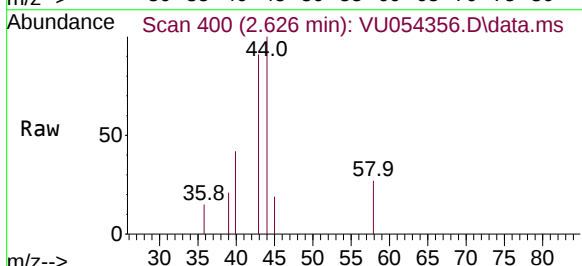
Acq: 31 May 2023 22:56

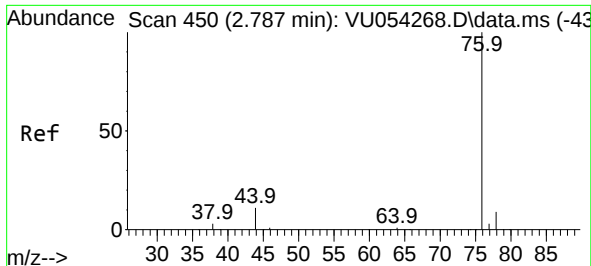
Tgt Ion: 43 Resp: 1573

Ion Ratio Lower Upper

43 100

58 29.8 27.5 41.3





#17

Carbon Disulfide

Concen: 0.390 ug/l

RT: 2.790 min Scan# 4

Delta R.T. 0.003 min

Lab File: VU054356.D

Acq: 31 May 2023 22:56

Instrument :

MSVOA_U

ClientSampleId :

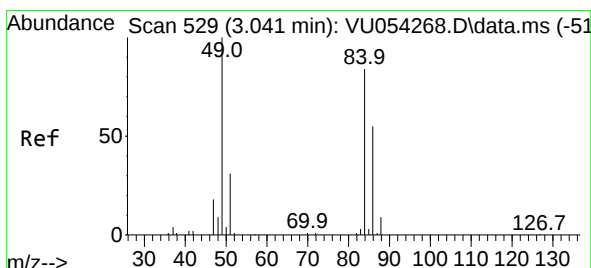
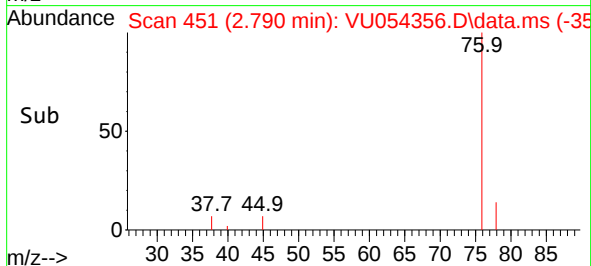
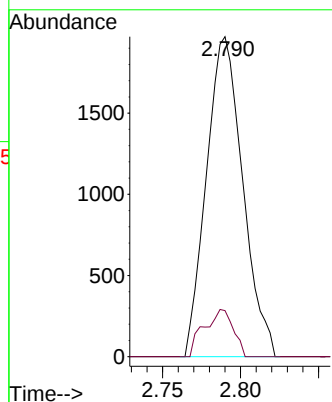
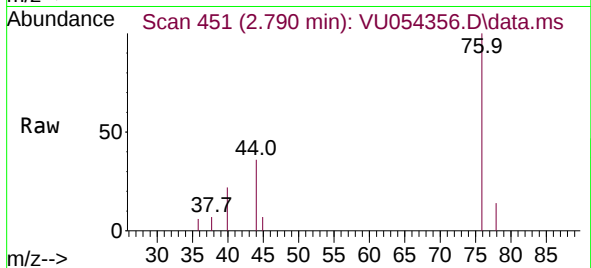
VU0531WBL02

Tgt Ion: 76 Resp: 3191

Ion Ratio Lower Upper

76 100

78 14.4 7.3 10.9#



#20

Methylene Chloride

Concen: 0.529 ug/l

RT: 3.041 min Scan# 529

Delta R.T. -0.000 min

Lab File: VU054356.D

Acq: 31 May 2023 22:56

Tgt Ion: 84 Resp: 1846

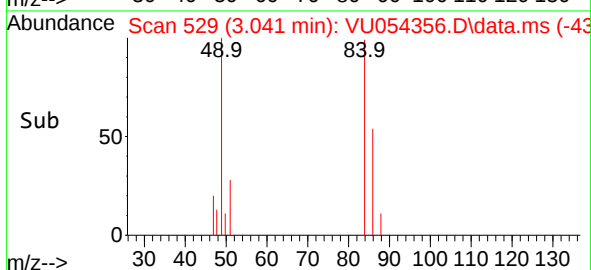
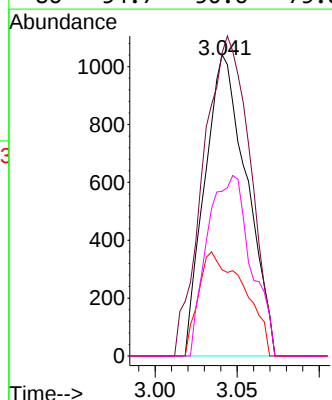
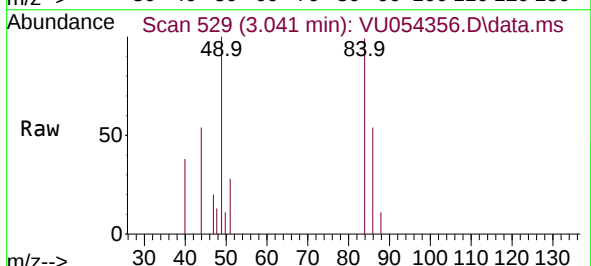
Ion Ratio Lower Upper

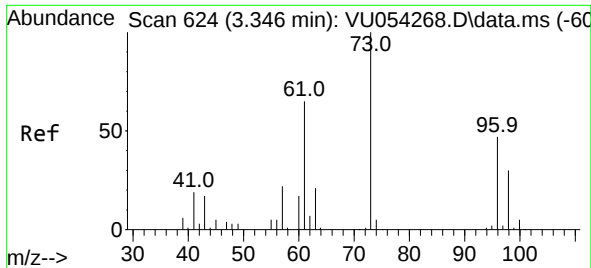
84 100

49 100.7 86.6 129.8

51 28.6 26.6 40.0

86 54.7 50.6 75.8

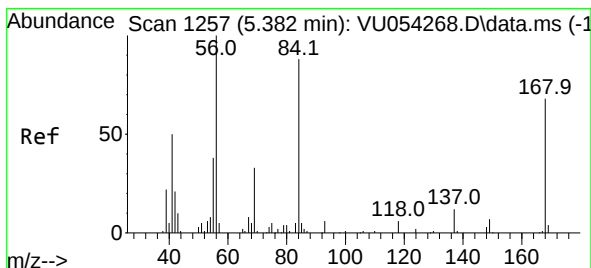
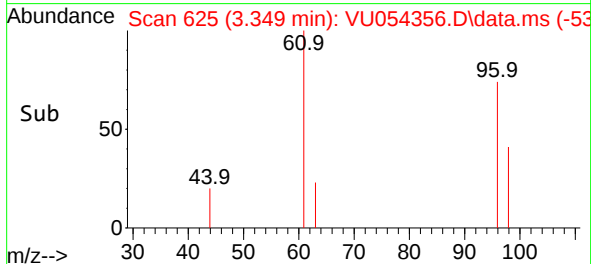
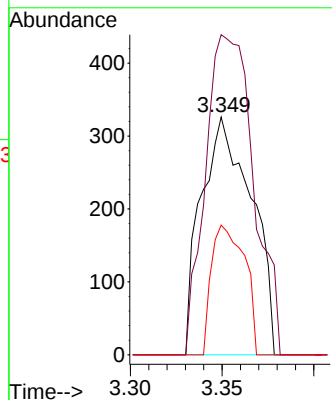
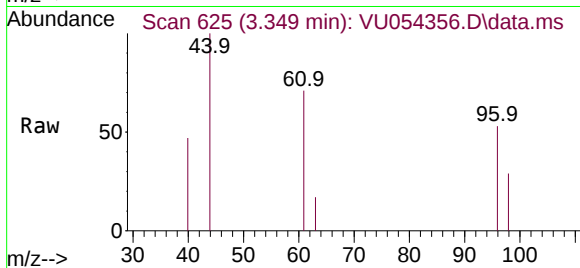




#21
trans-1,2-Dichloroethene
Concen: 0.210 ug/l
RT: 3.349 min Scan# 61
Delta R.T. 0.003 min
Lab File: VU054356.D
Acq: 31 May 2023 22:56

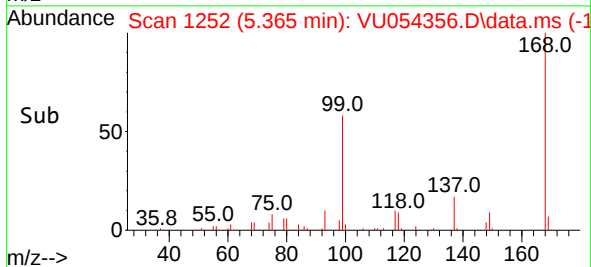
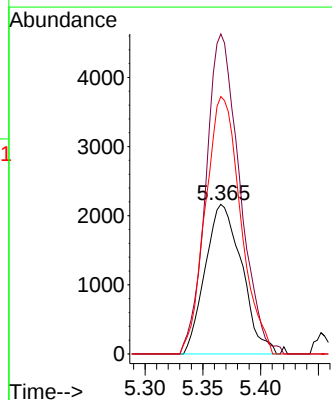
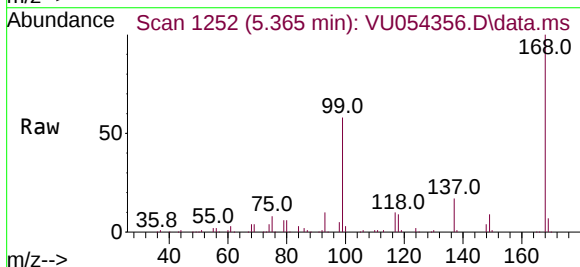
Instrument :
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ClientSampleId :
VU0531WBL02

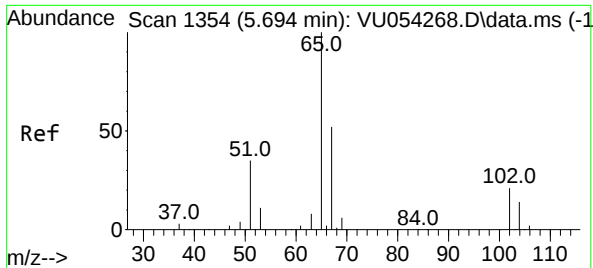
Tgt Ion: 96 Resp: 622
Ion Ratio Lower Upper
96 100
61 134.7 106.1 159.1
98 54.6 50.8 76.2



#31
Cyclohexane
Concen: 1.001 ug/l
RT: 5.365 min Scan# 1252
Delta R.T. -0.017 min
Lab File: VU054356.D
Acq: 31 May 2023 22:56

Tgt Ion: 56 Resp: 4764
Ion Ratio Lower Upper
56 100
69 214.0 27.8 41.8#
84 172.1 74.2 111.4#





#33

1,2-Dichloroethane-d4

Concen: 53.524 ug/l

RT: 5.697 min Scan# 11

Delta R.T. 0.003 min

Lab File: VU054356.D

Acq: 31 May 2023 22:56

Instrument :

MSVOA_U

ClientSampleId :

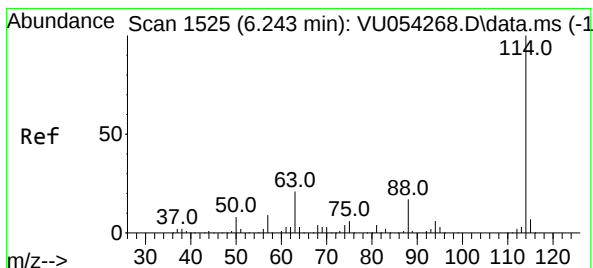
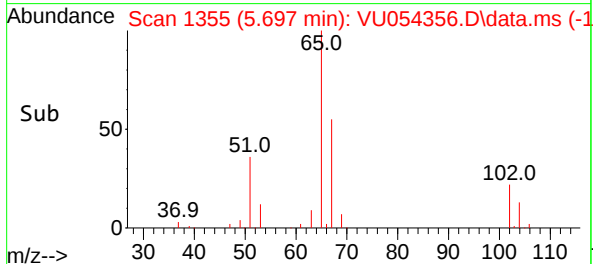
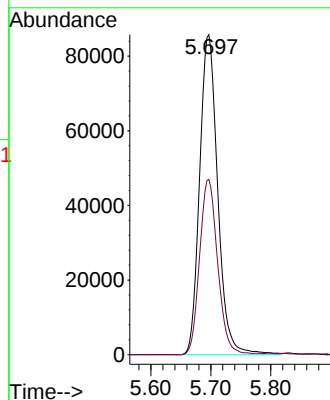
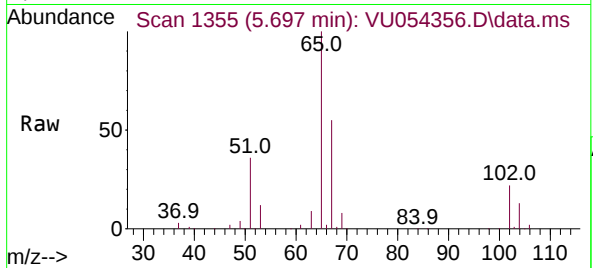
VU0531WBL02

Tgt Ion: 65 Resp: 180478

Ion Ratio Lower Upper

65 100

67 54.6 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: VU054356.D

Acq: 31 May 2023 22:56

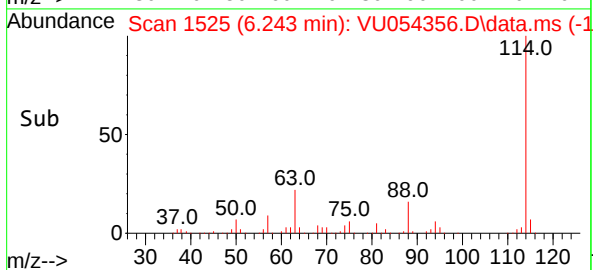
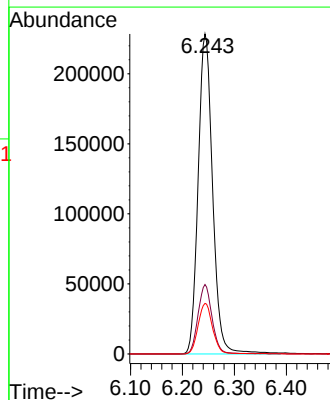
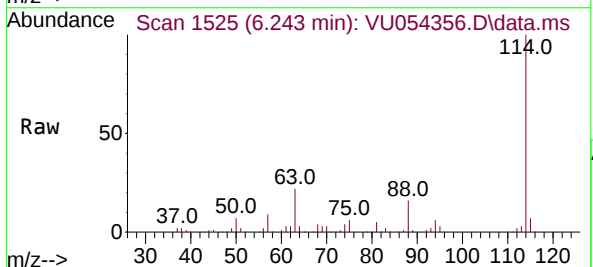
Tgt Ion: 114 Resp: 441637

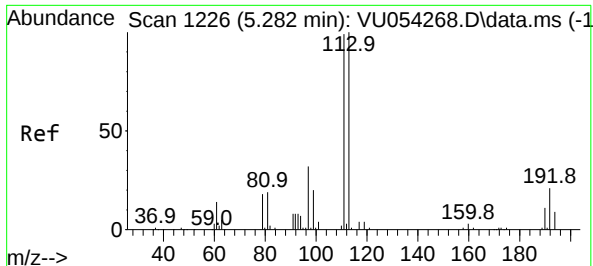
Ion Ratio Lower Upper

114 100

63 21.7 0.0 37.8

88 15.8 0.0 29.2

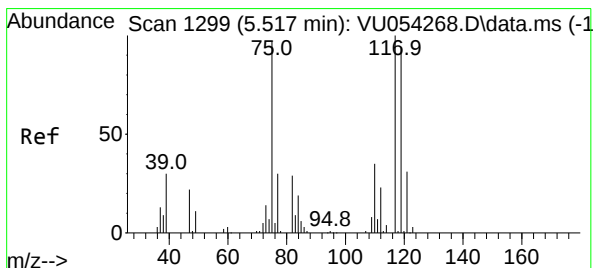
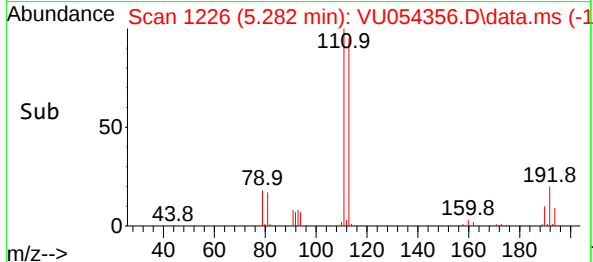
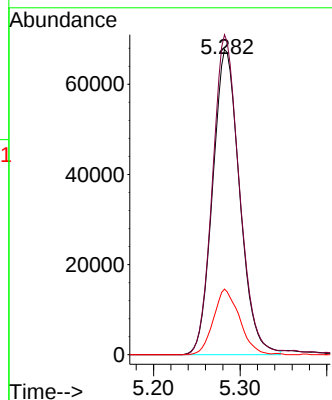
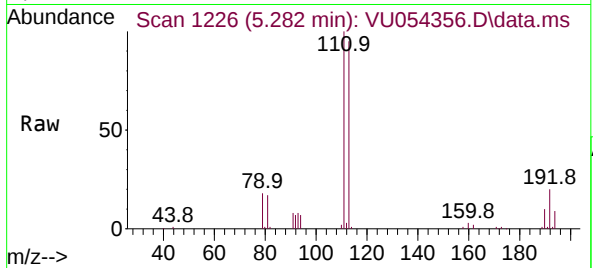




#35
Dibromofluoromethane
Concen: 51.554 ug/l
RT: 5.282 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU054356.D
Acq: 31 May 2023 22:56

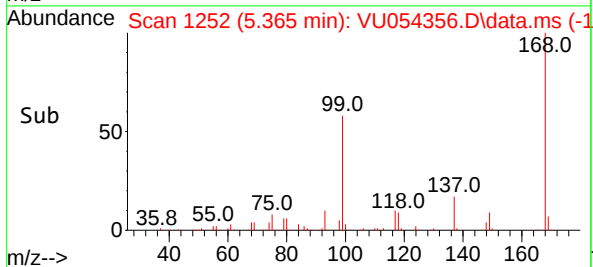
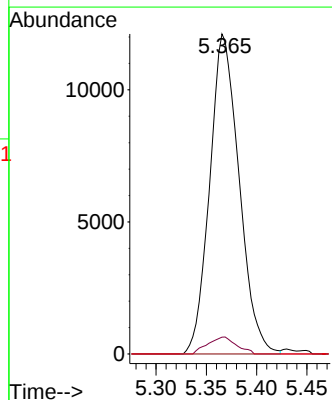
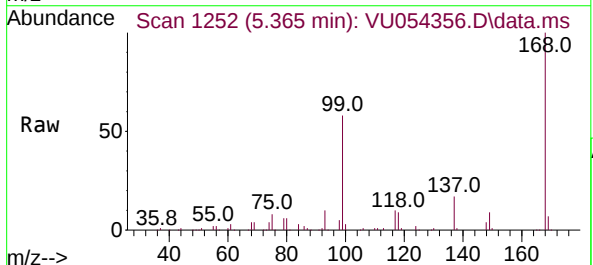
Instrument :
MSVOA_U
ClientSampleId :
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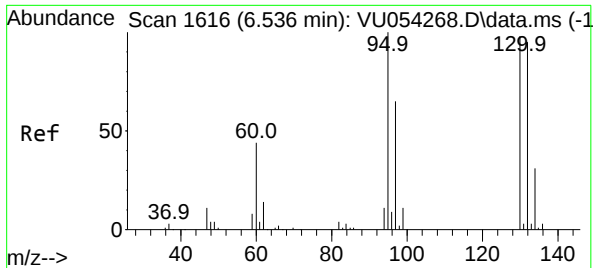
Tgt Ion:113 Resp: 146621
Ion Ratio Lower Upper
113 100
111 104.3 82.1 123.1
192 20.7 18.0 27.0



#38
Carbon Tetrachloride
Concen: 5.386 ug/l
RT: 5.365 min Scan# 1252
Delta R.T. -0.152 min
Lab File: VU054356.D
Acq: 31 May 2023 22:56

Tgt Ion:117 Resp: 24624
Ion Ratio Lower Upper
117 100
119 5.3 76.8 115.2#
121 0.0 24.7 37.1#

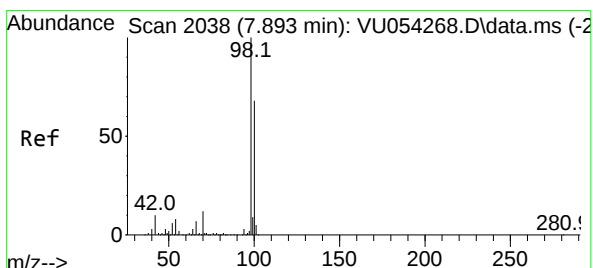
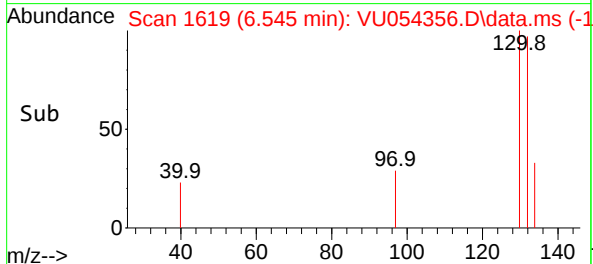
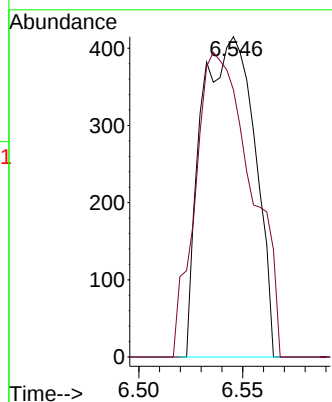
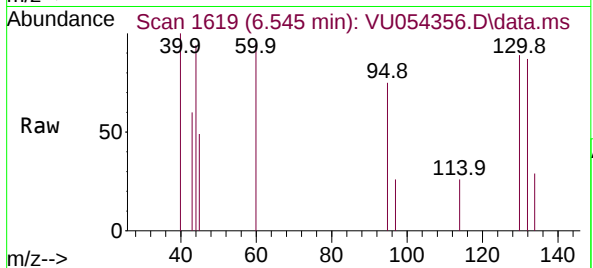




#44
Trichloroethene
Concen: 0.207 ug/l
RT: 6.545 min Scan# 1619
Delta R.T. 0.010 min
Lab File: VU054356.D
Acq: 31 May 2023 22:56

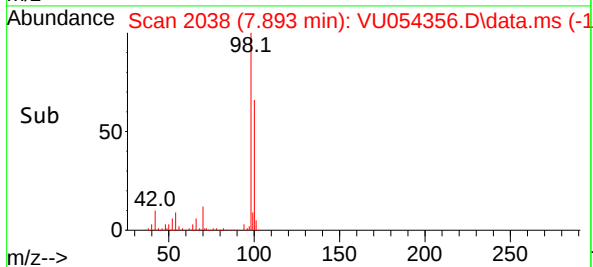
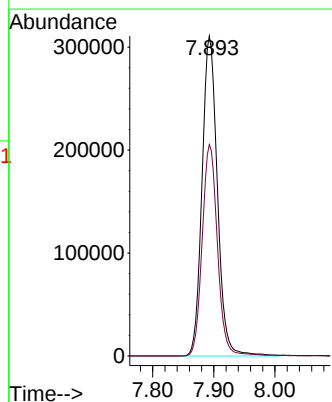
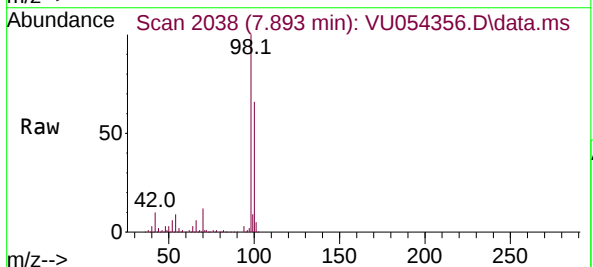
Instrument :
MSVOA_U
ClientSampleId :
VU0531WBL02

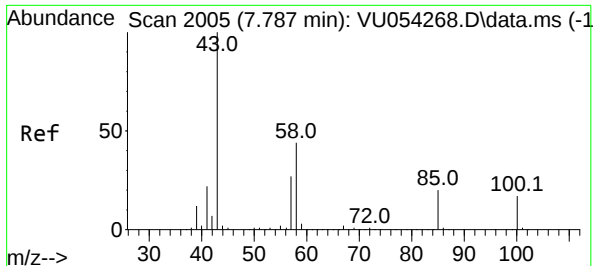
Tgt Ion:130 Resp: 737
Ion Ratio Lower Upper
130 100
95 83.4 0.0 184.6



#50
Toluene-d8
Concen: 50.108 ug/l
RT: 7.893 min Scan# 2038
Delta R.T. -0.000 min
Lab File: VU054356.D
Acq: 31 May 2023 22:56

Tgt Ion: 98 Resp: 542056
Ion Ratio Lower Upper
98 100
100 65.8 51.7 77.5

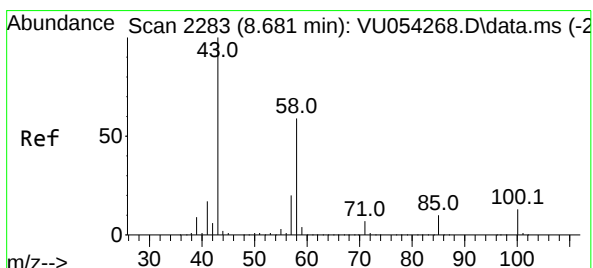
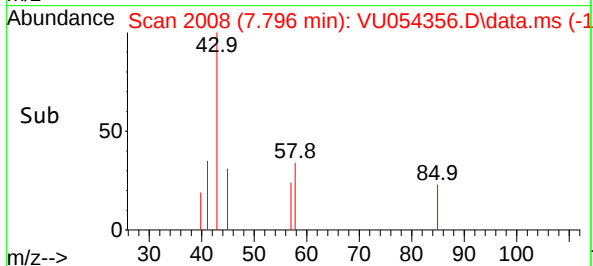
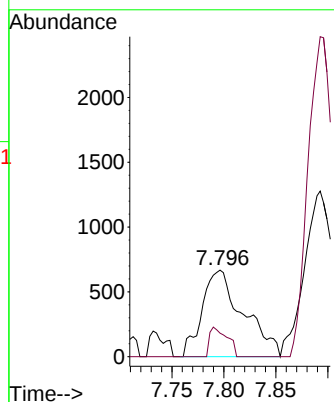
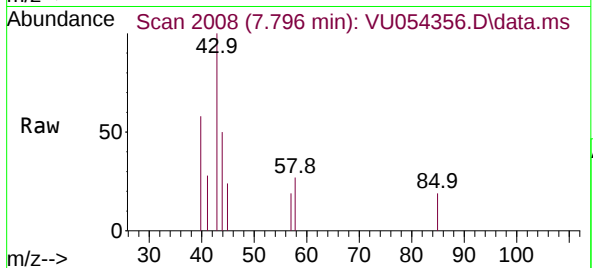




#51
4-Methyl-2-Pentanone
Concen: 0.366 ug/l
RT: 7.796 min Scan# 2008
Delta R.T. 0.009 min
Lab File: VU054356.D
Acq: 31 May 2023 22:56

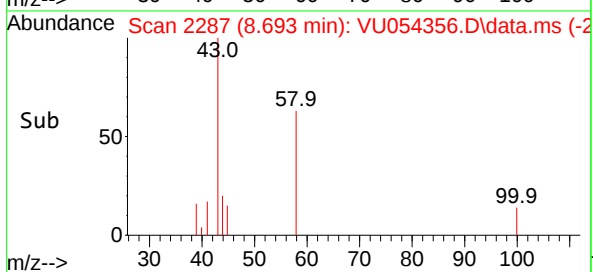
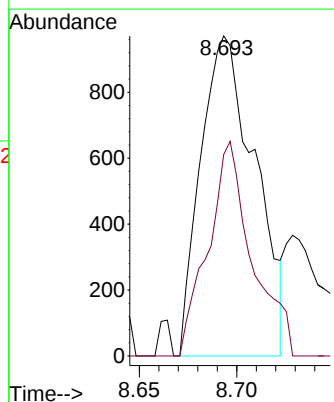
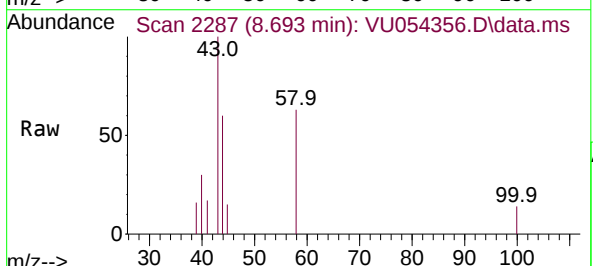
Instrument :
MSVOA_U
ClientSampleId :
VU0531WBL02

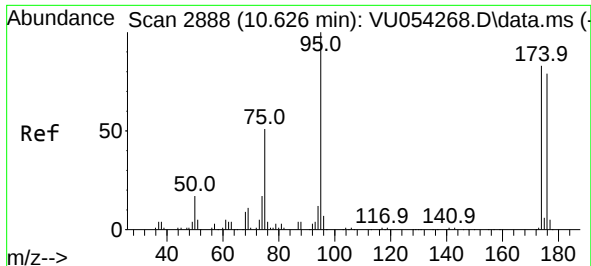
Tgt Ion: 43 Resp: 1833
Ion Ratio Lower Upper
43 100
58 14.6 34.7 52.1#



#59
2-Hexanone
Concen: 0.475 ug/l
RT: 8.693 min Scan# 2287
Delta R.T. 0.012 min
Lab File: VU054356.D
Acq: 31 May 2023 22:56

Tgt Ion: 43 Resp: 1882
Ion Ratio Lower Upper
43 100
58 54.3 30.3 90.8

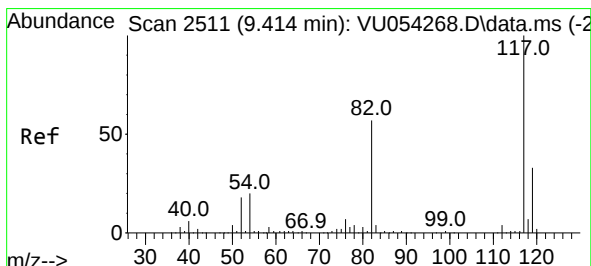
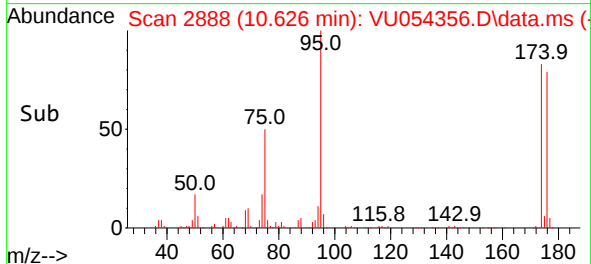
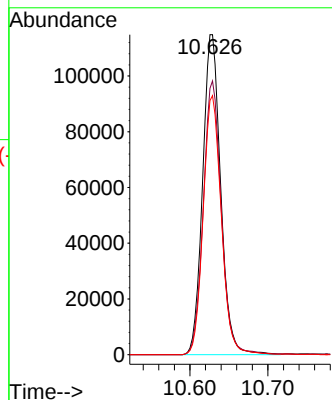
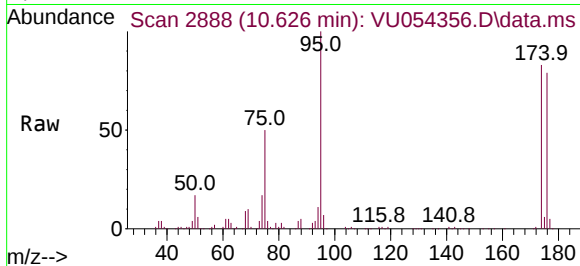




#62
4-Bromofluorobenzene
Concen: 44.029 ug/l
RT: 10.626 min Scan# 2888
Delta R.T. -0.000 min
Lab File: VU054356.D
Acq: 31 May 2023 22:56

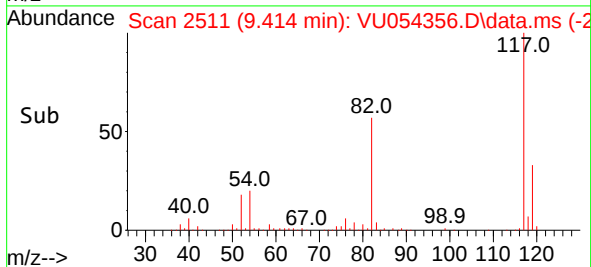
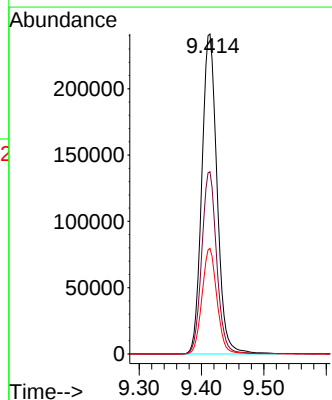
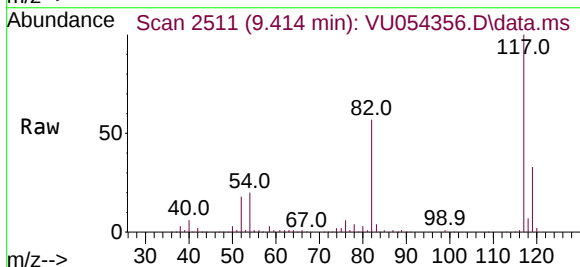
Instrument :
MSVOA_U
ClientSampleId :
VU0531WBL02

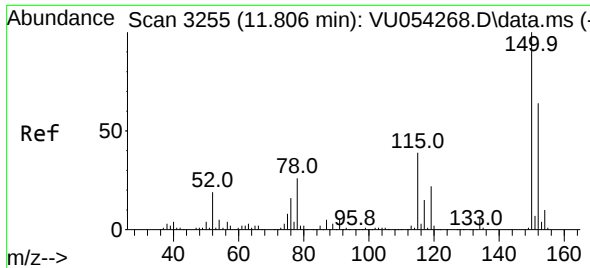
Tgt Ion: 95 Resp: 184683
Ion Ratio Lower Upper
95 100
174 85.5 0.0 182.0
176 81.4 0.0 177.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.414 min Scan# 2511
Delta R.T. -0.000 min
Lab File: VU054356.D
Acq: 31 May 2023 22:56

Tgt Ion: 117 Resp: 409700
Ion Ratio Lower Upper
117 100
82 56.9 41.7 62.5
119 33.0 25.7 38.5

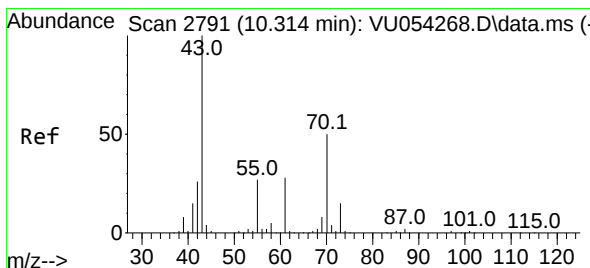
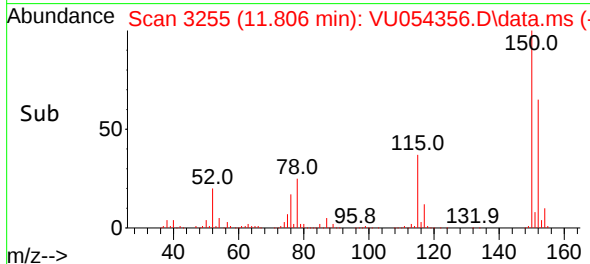
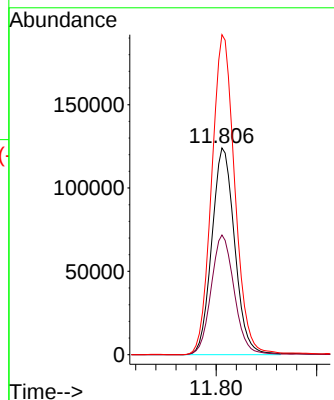
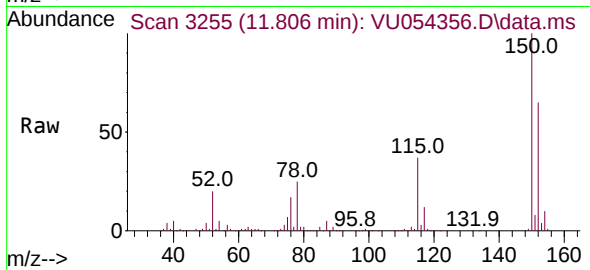




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.806 min Scan# 31
Delta R.T. -0.000 min
Lab File: VU054356.D
Acq: 31 May 2023 22:56

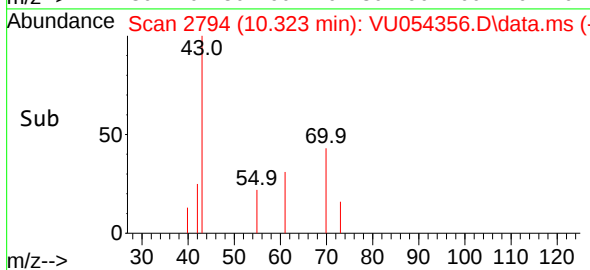
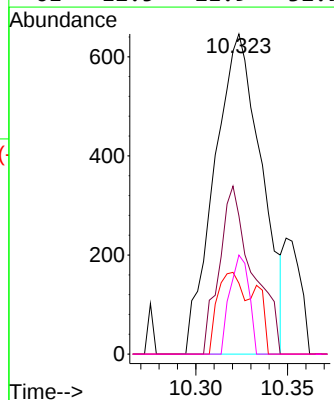
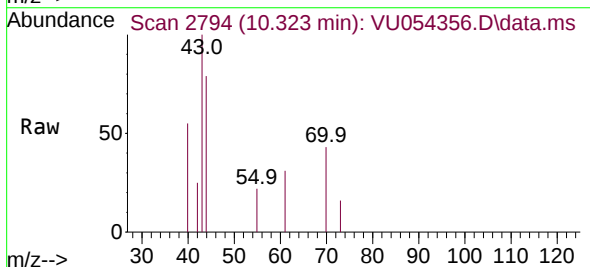
Instrument :
MSVOA_U
ClientSampleId :
VU0531WBL02

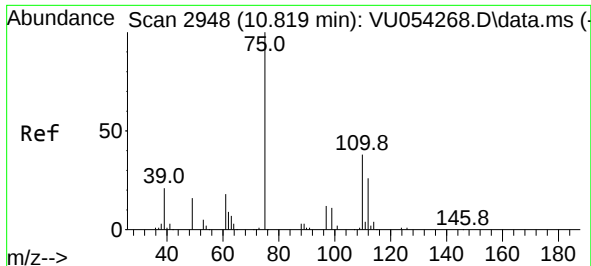
Tgt Ion:152 Resp: 195879
Ion Ratio Lower Upper
152 100
115 58.6 37.0 110.9
150 156.7 0.0 342.2



#74
N-ethyl acetate
Concen: 0.224 ug/l
RT: 10.323 min Scan# 2794
Delta R.T. 0.009 min
Lab File: VU054356.D
Acq: 31 May 2023 22:56

Tgt Ion: 43 Resp: 1153
Ion Ratio Lower Upper
43 100
70 37.3 38.7 58.1#
55 13.8 21.8 32.8#
61 12.5 21.9 32.9#

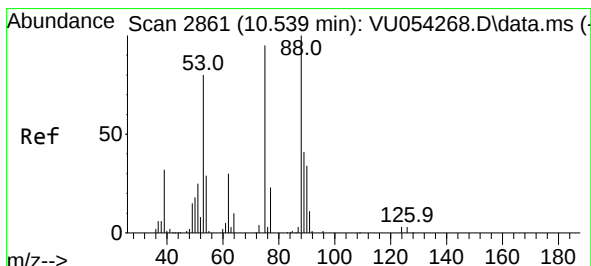
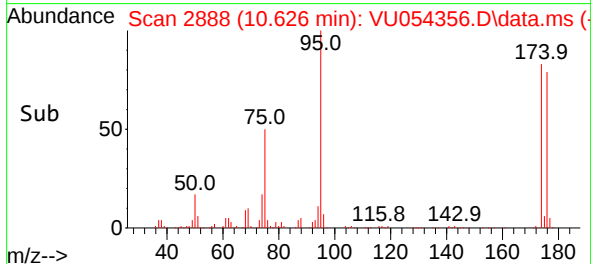
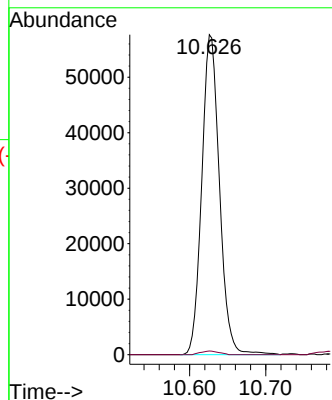
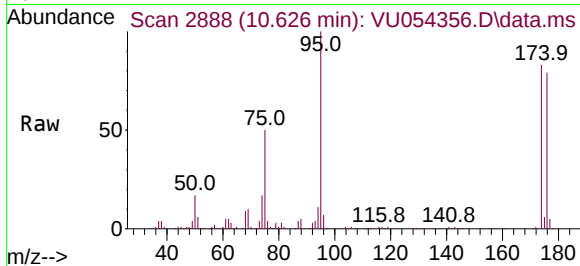




#76
1,2,3-Trichloropropane
Concen: 16.290 ug/l
RT: 10.626 min Scan# 21
Delta R.T. -0.193 min
Lab File: VU054356.D
Acq: 31 May 2023 22:56

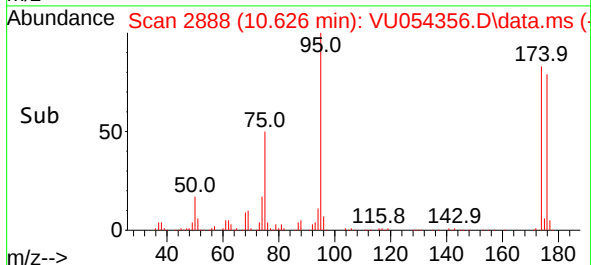
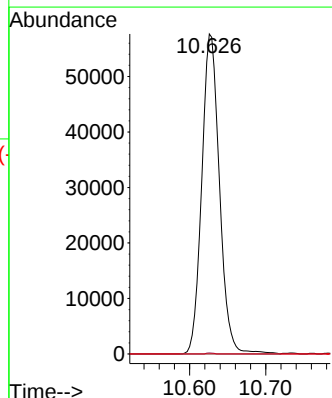
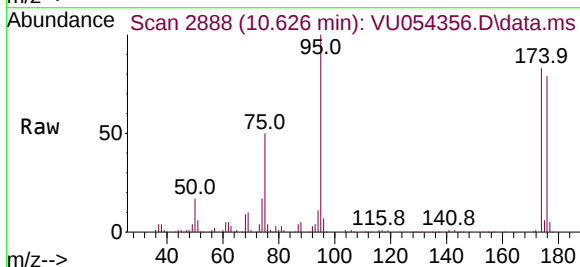
Instrument :
MSVOA_U
ClientSampleId :
VU0531WBL02

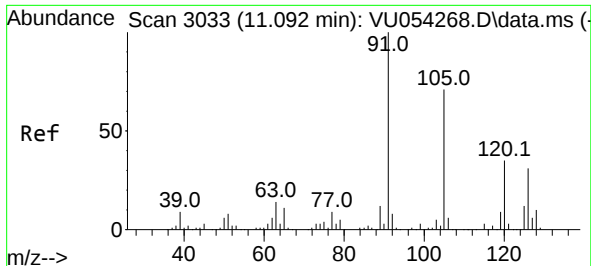
Tgt Ion: 75 Resp: 93130
Ion Ratio Lower Upper
75 100
77 1.2 15.8 47.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 62.032 ug/l
RT: 10.626 min Scan# 2888
Delta R.T. 0.087 min
Lab File: VU054356.D
Acq: 31 May 2023 22:56

Tgt Ion: 75 Resp: 93130
Ion Ratio Lower Upper
75 100
53 0.1 69.2 103.8#
89 0.0 37.0 55.6#

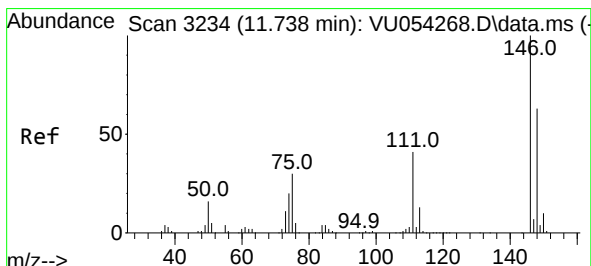
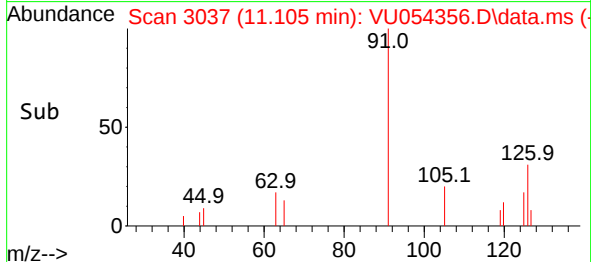
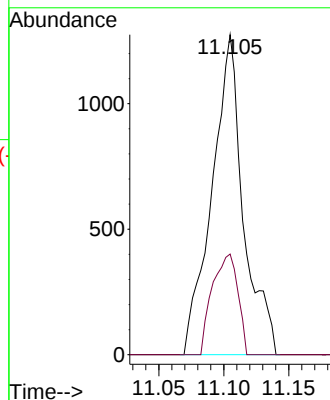
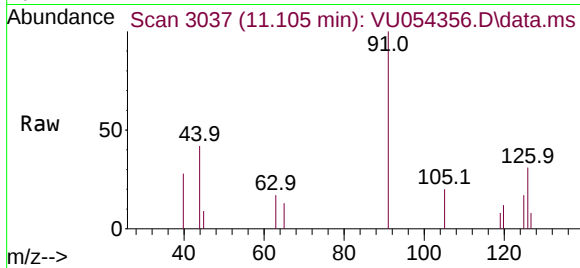




#82
4-Chlorotoluene
Concen: 0.203 ug/l
RT: 11.105 min Scan# 3033
Delta R.T. 0.013 min
Lab File: VU054356.D
Acq: 31 May 2023 22:56

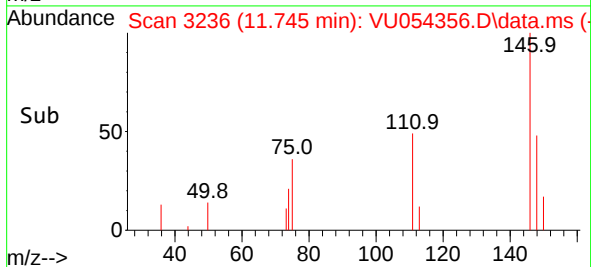
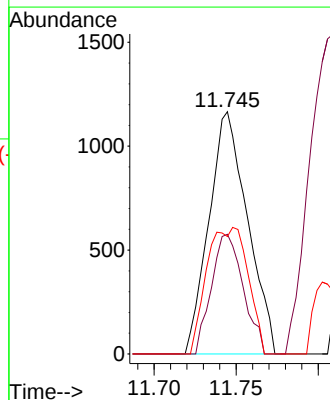
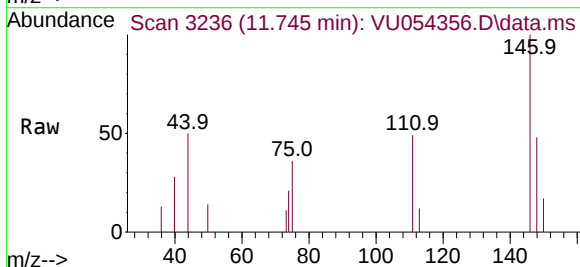
Instrument :
MSVOA_U
ClientSampleId :
VU0531WBL02

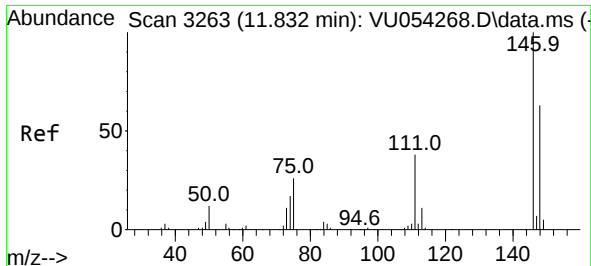
Tgt Ion: 91 Resp: 2141
Ion Ratio Lower Upper
91 100
126 25.5 16.1 48.2



#87
1,3-Dichlorobenzene
Concen: 0.295 ug/l
RT: 11.745 min Scan# 3236
Delta R.T. 0.007 min
Lab File: VU054356.D
Acq: 31 May 2023 22:56

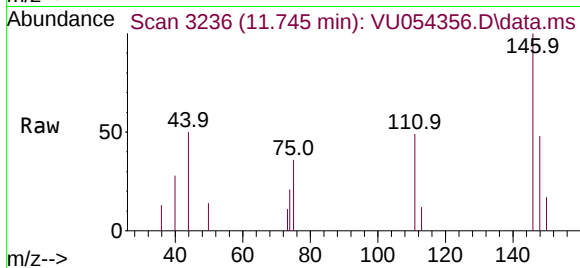
Tgt Ion:146 Resp: 1901
Ion Ratio Lower Upper
146 100
111 40.8 18.9 56.5
148 56.0 31.9 95.9



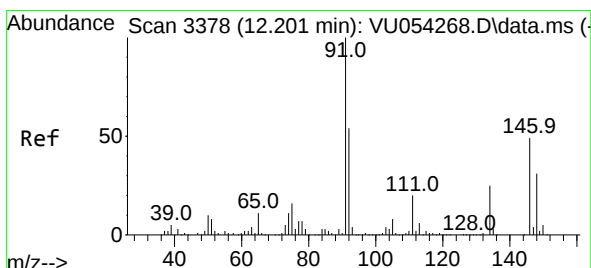
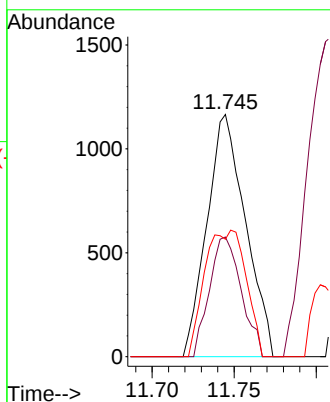
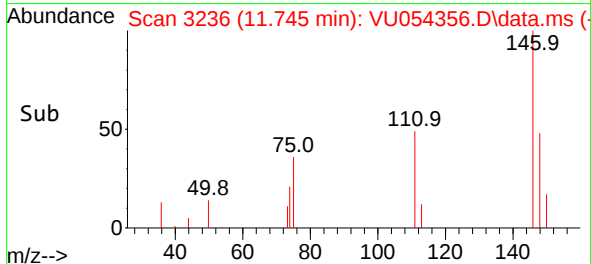


#88
1,4-Dichlorobenzene
Concen: 0.282 ug/l
RT: 11.745 min Scan# 31
Delta R.T. -0.087 min
Lab File: VU054356.D
Acq: 31 May 2023 22:56

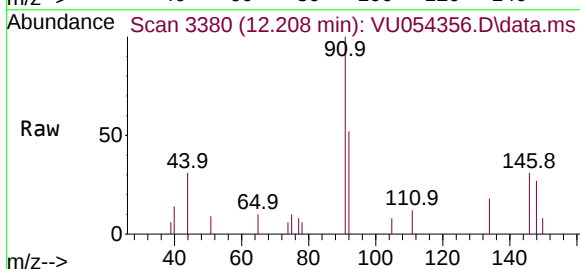
Instrument :
MSVOA_U
ClientSampleId :
VU0531WBL02



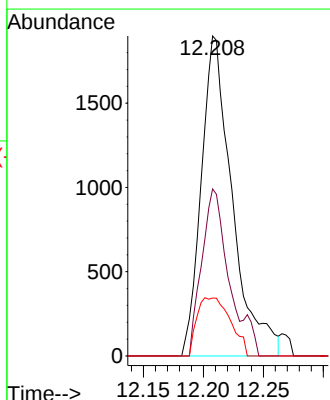
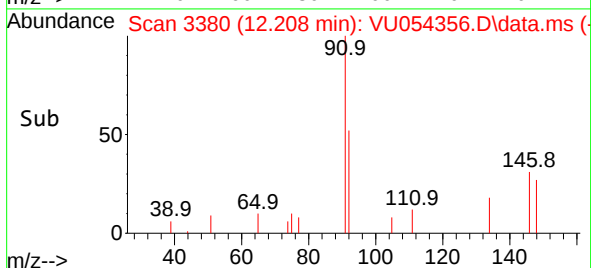
Tgt Ion:146 Resp: 1901
Ion Ratio Lower Upper
146 100
111 40.8 18.5 55.5
148 56.0 31.9 95.7

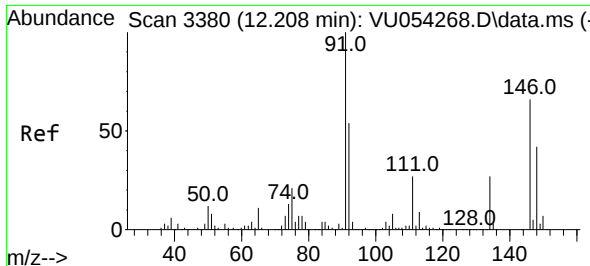


#89
n-Butylbenzene
Concen: 0.329 ug/l
RT: 12.208 min Scan# 3380
Delta R.T. 0.007 min
Lab File: VU054356.D
Acq: 31 May 2023 22:56



Tgt Ion: 91 Resp: 3414
Ion Ratio Lower Upper
91 100
92 46.3 26.2 78.6
134 19.6 13.5 40.4





#91

1,2-Dichlorobenzene

Concen: 0.216 ug/l

RT: 12.217 min Scan# 31

Delta R.T. 0.009 min

Lab File: VU054356.D

Acq: 31 May 2023 22:56

Instrument :

MSVOA_U

ClientSampleId :

VU0531WBL02

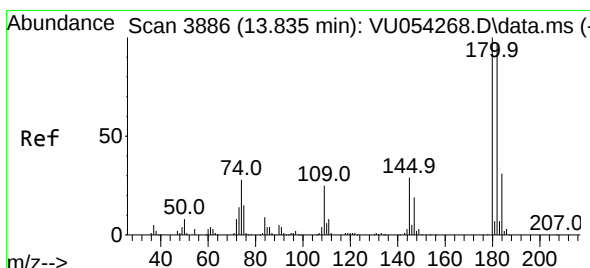
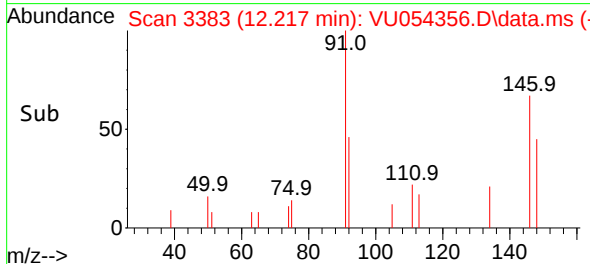
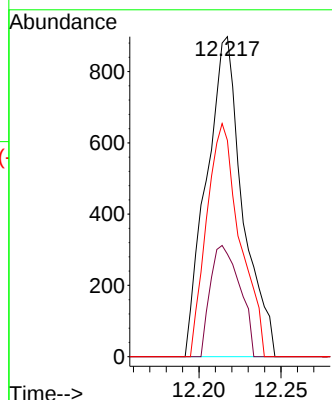
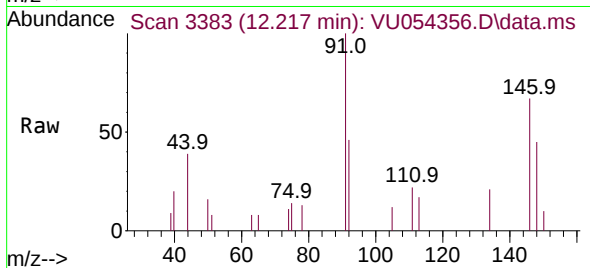
Tgt Ion:146 Resp: 1370

Ion Ratio Lower Upper

146 100

111 28.5 19.9 59.6

148 67.1 32.1 96.5



#93

1,2,4-Trichlorobenzene

Concen: 2.165 ug/l

RT: 13.841 min Scan# 3888

Delta R.T. 0.006 min

Lab File: VU054356.D

Acq: 31 May 2023 22:56

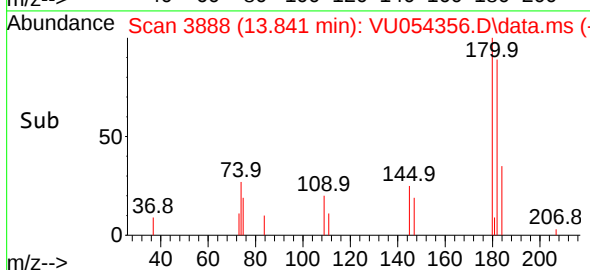
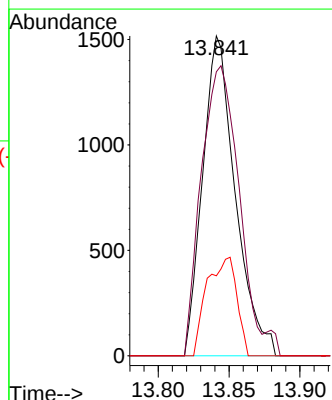
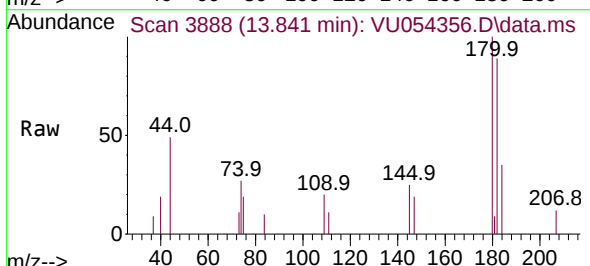
Tgt Ion:180 Resp: 2432

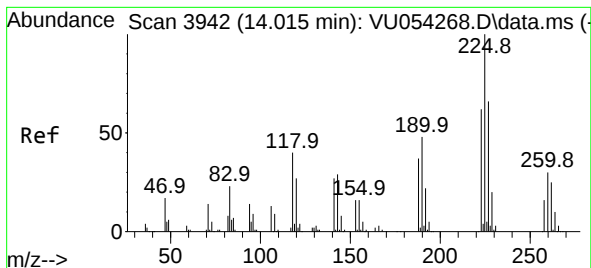
Ion Ratio Lower Upper

180 100

182 105.9 47.9 143.6

145 28.1 14.0 41.9





#94

Hexachlorobutadiene

Concen: 0.955 ug/l

RT: 14.018 min Scan# 3942

Delta R.T. 0.003 min

Lab File: VU054356.D

Acq: 31 May 2023 22:56

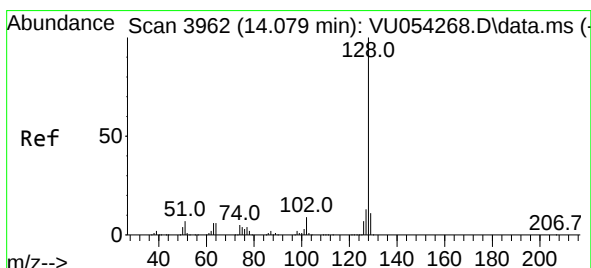
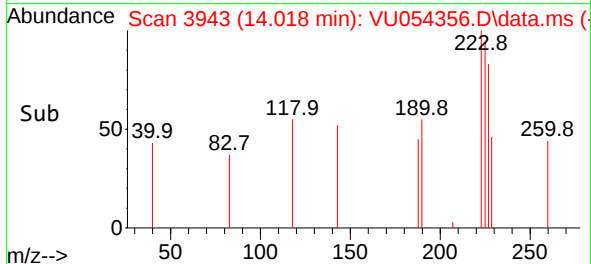
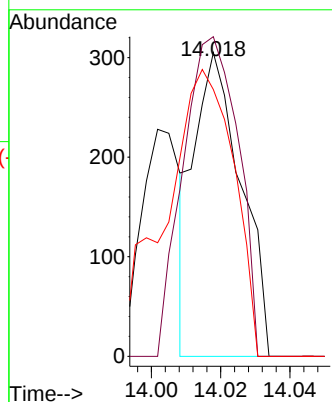
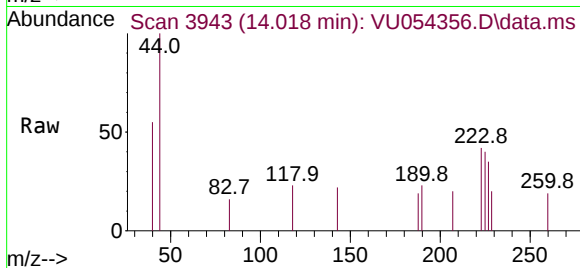
Instrument :

MSVOA_U

ClientSampleId :

VU0531WBL02

Tgt Ion:	225	Resp:	285
Ion	Ratio	Lower	Upper
225	100		
223	124.6	31.3	93.9#
227	137.9	32.0	96.2#



#95

Naphthalene

Concen: 2.654 ug/l

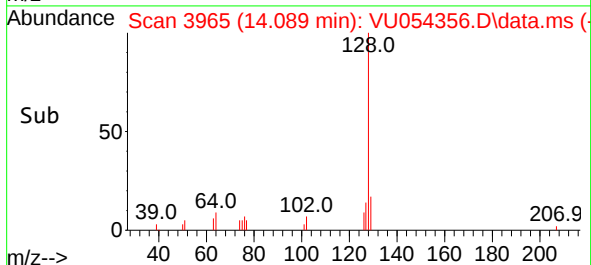
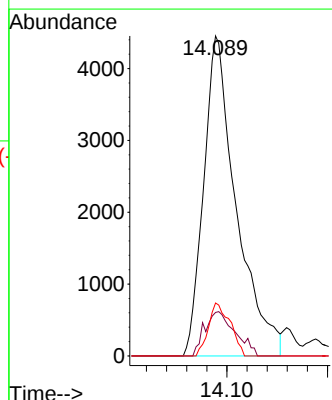
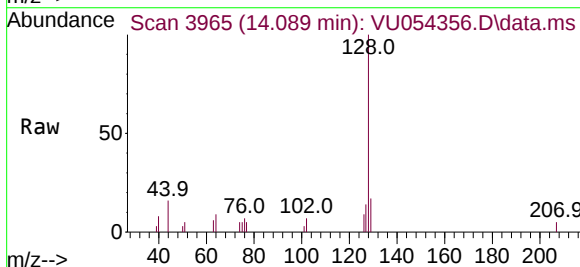
RT: 14.089 min Scan# 3965

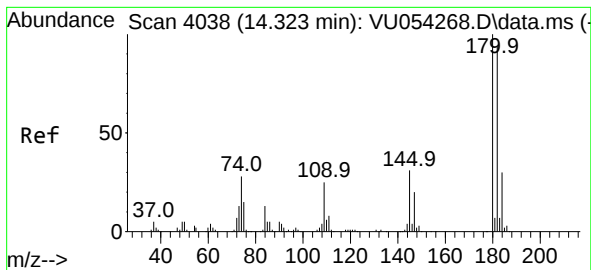
Delta R.T. 0.010 min

Lab File: VU054356.D

Acq: 31 May 2023 22:56

Tgt Ion:	128	Resp:	10006
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.3	15.5
129	11.0	8.6	13.0





#96

1,2,3-Trichlorobenzene

Concen: 1.922 ug/l

RT: 14.330 min Scan# 40

Delta R.T. 0.007 min

Lab File: VU054356.D

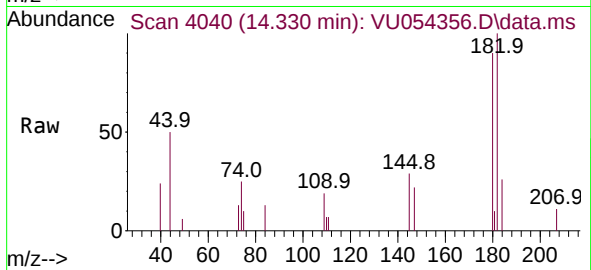
Acq: 31 May 2023 22:56

Instrument :

MSVOA_U

ClientSampleId :

VU0531WBL02



Tgt Ion:180 Resp: 3054

Ion Ratio Lower Upper

180 100

182 103.1 48.4 145.0

145 24.2 14.8 44.4

