

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU053123\
 Data File : VU054361.D
 Acq On : 01 Jun 2023 00:54
 Operator : JC/MD
 Sample : PB153123ZHE#12
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PB153123ZHE#12

Quant Time: Jun 01 06:40:09 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)

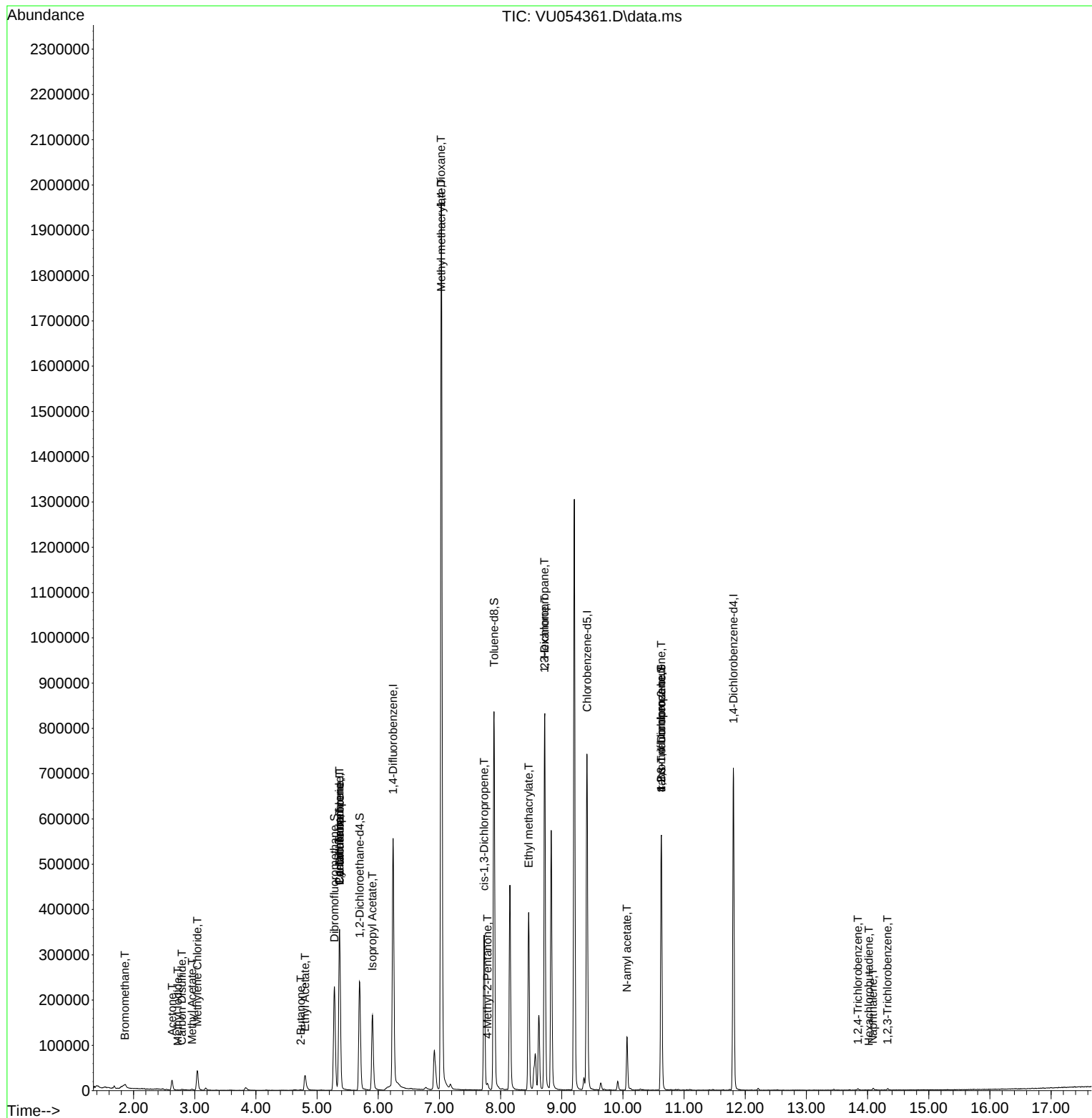
Internal Standards						
1) Pentafluorobenzene	5.369	168	257262	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.243	114	448468	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.414	117	426267	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.806	152	192120	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.697	65	182142	54.009	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 108.020%			
35) Dibromofluoromethane	5.282	113	150535	52.124	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.240%			
50) Toluene-d8	7.893	98	561151	51.083	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 102.160%			
62) 4-Bromofluorobenzene	10.626	95	187179	43.945	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 87.880%			
Target Compounds						
					Qvalue	
5) Bromomethane	1.858	94	533	0.268	ug/l	91
10) Methyl Iodide	2.723	142	277	2.414	ug/l #	69
16) Acetone	2.629	43	27345	14.146	ug/l	98
17) Carbon Disulfide	2.790	76	1824	0.223	ug/l	96
18) Methyl Acetate	2.957	43	4137	0.586	ug/l #	74
20) Methylene Chloride	3.041	84	23362	6.699	ug/l #	91
25) 2-Butanone	4.732	43	1651	0.645	ug/l	97
31) Cyclohexane	5.366	56	4828	1.014	ug/l #	1
36) 1,1-Dichloropropene	5.369	75	19664	4.335	ug/l #	48
37) Ethyl Acetate	4.803	43	47742	8.636	ug/l #	92
38) Carbon Tetrachloride	5.366	117	24916	5.366	ug/l #	16
43) Isopropyl Acetate	5.906	43	178131	23.360	ug/l	98
48) Methyl methacrylate	7.031	41	158076	46.745	ug/l #	33
49) 1,4-Dioxane	7.028	88	246	2.520	ug/l #	1
51) 4-Methyl-2-Pentanone	7.787	43	9769	1.920	ug/l	90
54) cis-1,3-Dichloropropene	7.732	75	64688	11.660	ug/l #	58
56) Ethyl methacrylate	8.459	69	2075	0.408	ug/l #	1
57) 1,3-Dichloropropane	8.719	76	8753	1.487	ug/l #	42
59) 2-Hexanone	8.722	43	104383	25.967	ug/l #	51
74) N-amyl acetate	10.066	43	36724	7.269	ug/l #	48
76) 1,2,3-Trichloropropane	10.626	75	93222	16.625	ug/l #	46
81) trans-1,4-Dichloro-2-b...	10.626	75	93222	63.309	ug/l #	15
93) 1,2,4-Trichlorobenzene	13.841	180	1336	1.936	ug/l	96
94) Hexachlorobutadiene	14.021	225	123	0.879	ug/l	79
95) Naphthalene	14.089	128	5225	2.344	ug/l #	88
96) 1,2,3-Trichlorobenzene	14.327	180	1373	1.560	ug/l	96

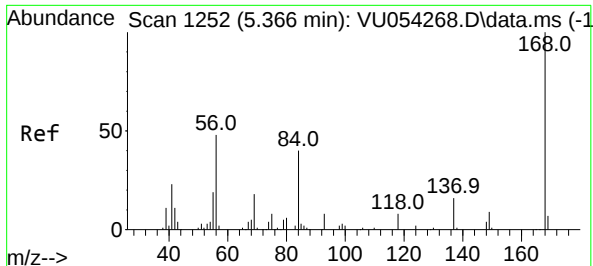
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri May 26 06:40:51 2023
Response via : Initial Calibration

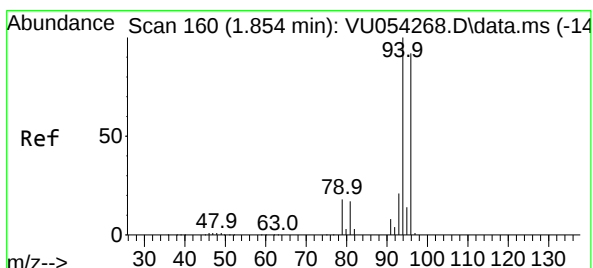
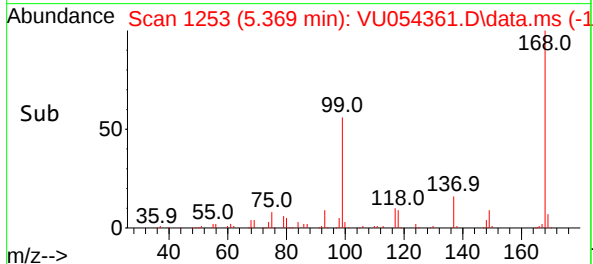
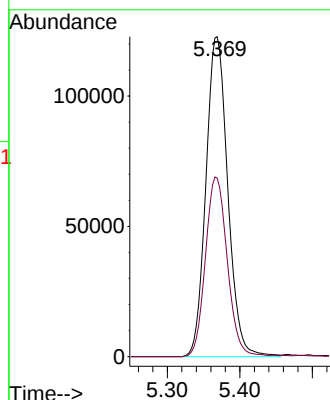
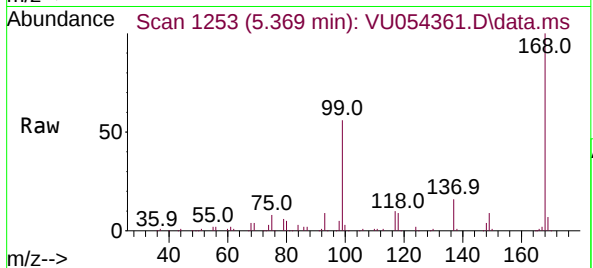




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.369 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU054361.D
Acq: 01 Jun 2023 00:54

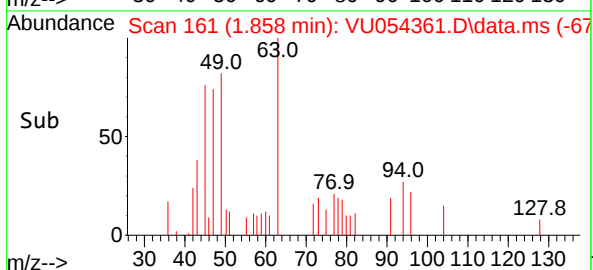
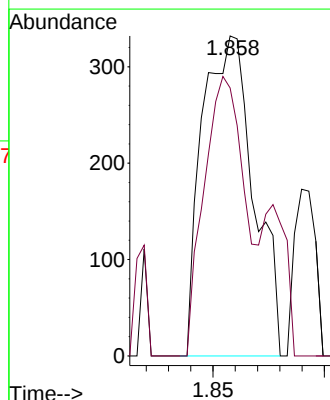
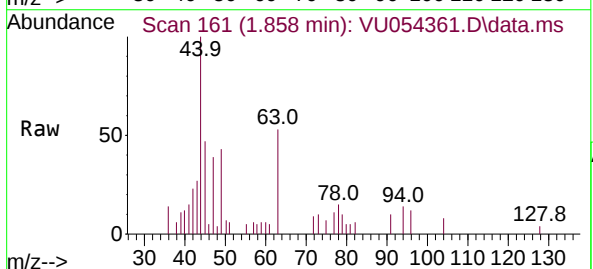
Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#12

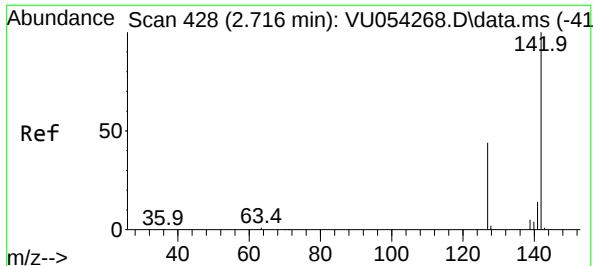
Tgt Ion:168 Resp: 257262
Ion Ratio Lower Upper
168 100
99 55.8 39.3 58.9



#5
Bromomethane
Concen: 0.268 ug/l
RT: 1.858 min Scan# 161
Delta R.T. 0.004 min
Lab File: VU054361.D
Acq: 01 Jun 2023 00:54

Tgt Ion: 94 Resp: 533
Ion Ratio Lower Upper
94 100
96 83.7 73.7 110.5





#10

Methyl Iodide

Concen: 2.414 ug/l

RT: 2.723 min Scan# 41

Delta R.T. 0.007 min

Lab File: VU054361.D

Acq: 01 Jun 2023 00:54

Instrument :

MSVOA_U

ClientSampleId :

PB153123ZHE#12

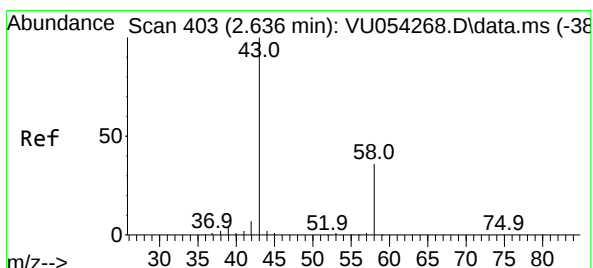
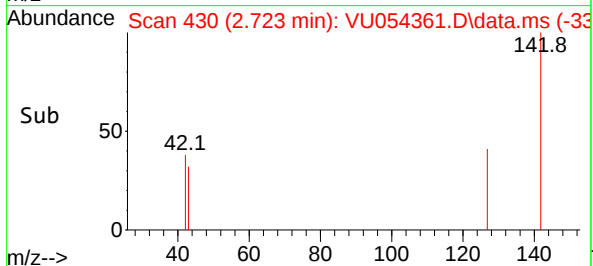
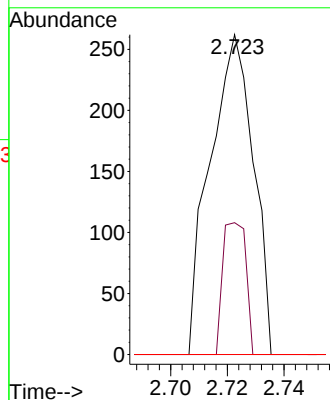
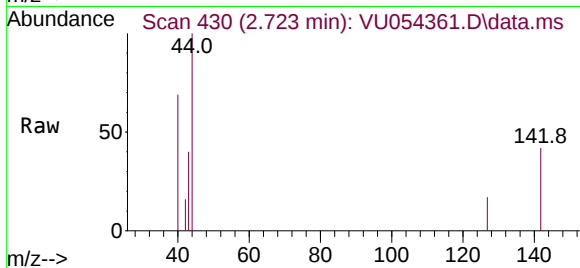
Tgt Ion:142 Resp: 277

Ion Ratio Lower Upper

142 100

127 22.0 32.5 48.7#

141 0.0 11.4 17.0#



#16

Acetone

Concen: 14.146 ug/l

RT: 2.629 min Scan# 401

Delta R.T. -0.007 min

Lab File: VU054361.D

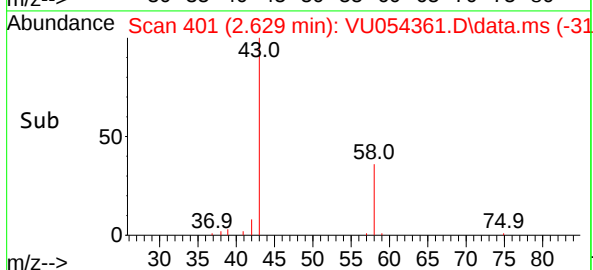
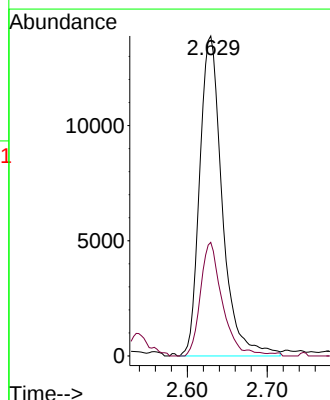
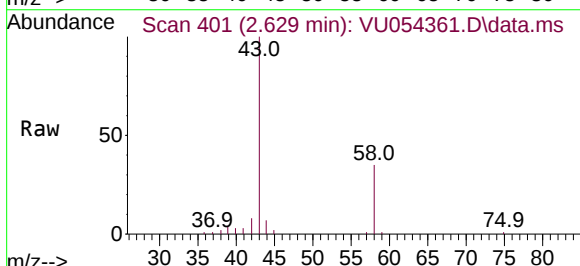
Acq: 01 Jun 2023 00:54

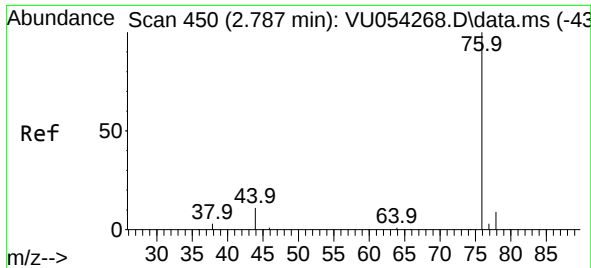
Tgt Ion: 43 Resp: 27345

Ion Ratio Lower Upper

43 100

58 35.5 27.5 41.3

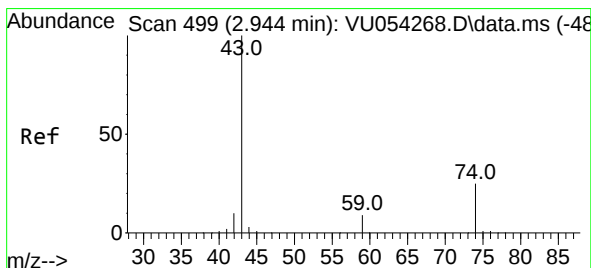
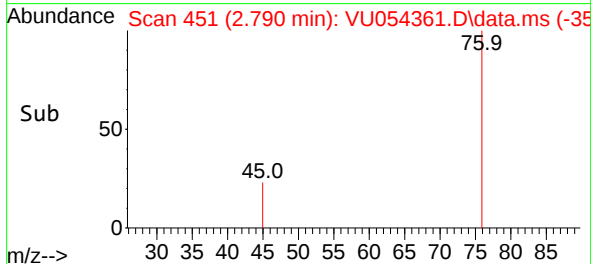
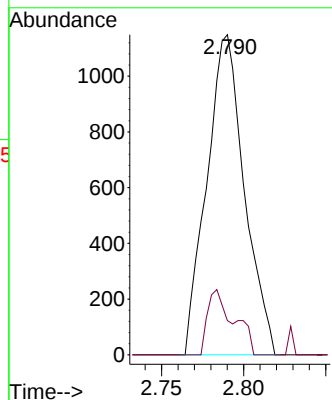
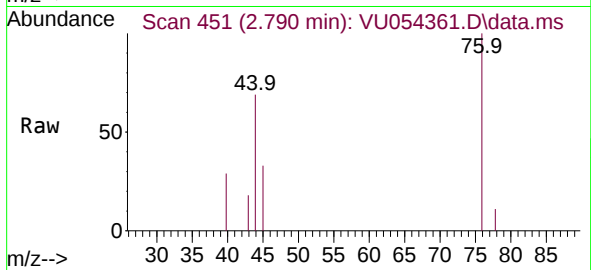




#17
Carbon Disulfide
Concen: 0.223 ug/l
RT: 2.790 min Scan# 41
Delta R.T. 0.003 min
Lab File: VU054361.D
Acq: 01 Jun 2023 00:54

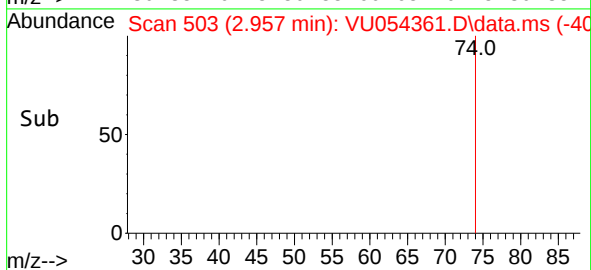
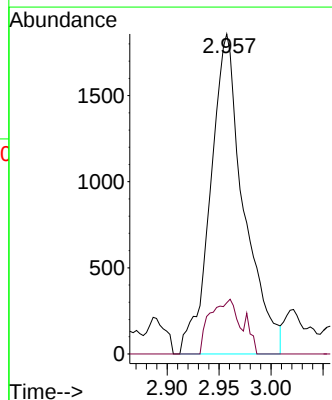
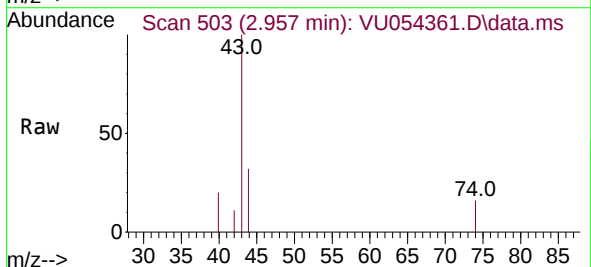
Instrument :
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ClientSampleId :
PB153123ZHE#12

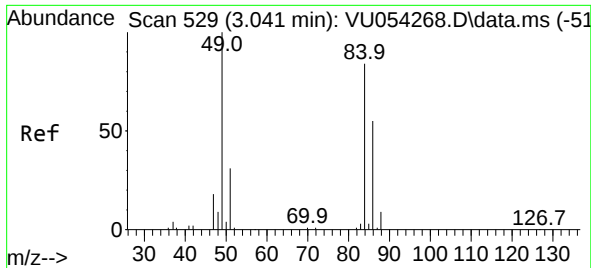
Tgt Ion: 76 Resp: 1824
Ion Ratio Lower Upper
76 100
78 10.7 7.3 10.9



#18
Methyl Acetate
Concen: 0.586 ug/l
RT: 2.957 min Scan# 503
Delta R.T. 0.013 min
Lab File: VU054361.D
Acq: 01 Jun 2023 00:54

Tgt Ion: 43 Resp: 4137
Ion Ratio Lower Upper
43 100
74 14.2 22.5 33.7#

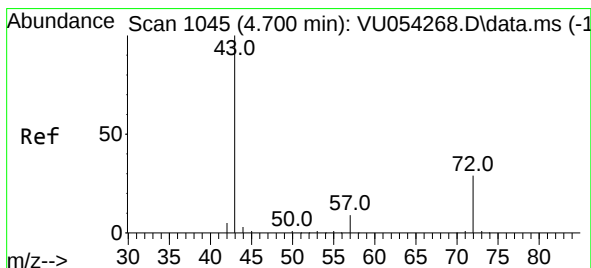
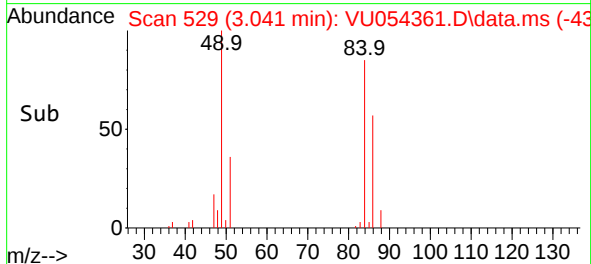
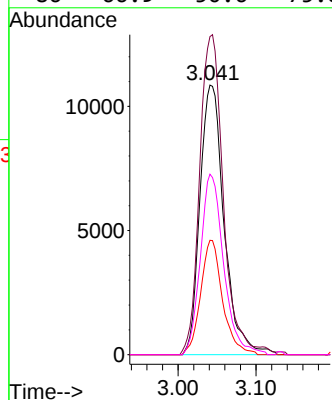
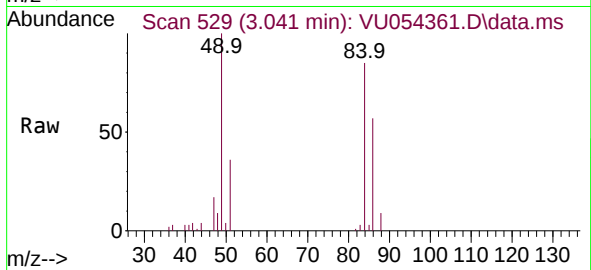




#20
Methylene Chloride
Concen: 6.699 ug/l
RT: 3.041 min Scan# 51
Delta R.T. -0.000 min
Lab File: VU054361.D
Acq: 01 Jun 2023 00:54

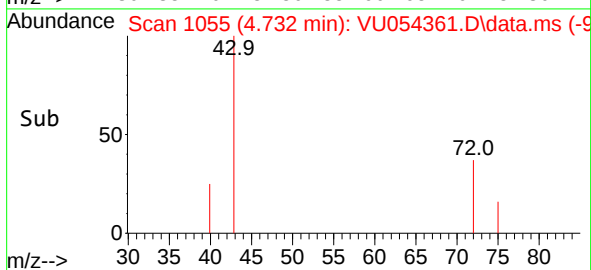
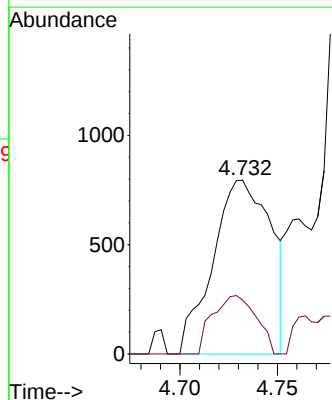
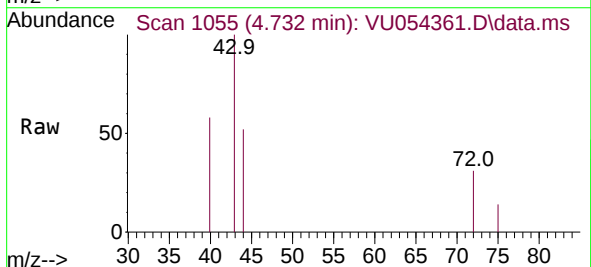
Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#12

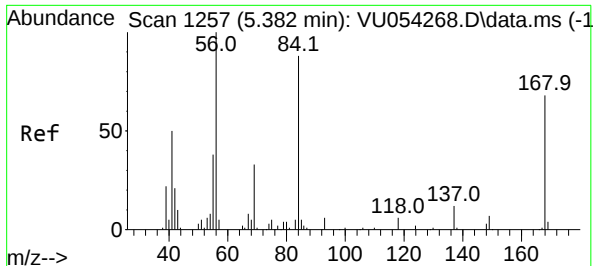
Tgt Ion:	84	Resp:	23362
Ion	Ratio	Lower	Upper
84	100		
49	118.0	86.6	129.8
51	42.4	26.6	40.0#
86	66.9	50.6	75.8



#25
2-Butanone
Concen: 0.645 ug/l
RT: 4.732 min Scan# 1055
Delta R.T. 0.032 min
Lab File: VU054361.D
Acq: 01 Jun 2023 00:54

Tgt Ion:	43	Resp:	1651
Ion	Ratio	Lower	Upper
43	100		
72	31.1	23.8	35.6





#31

Cyclohexane

Concen: 1.014 ug/l

RT: 5.366 min Scan# 1

Delta R.T. -0.016 min

Lab File: VU054361.D

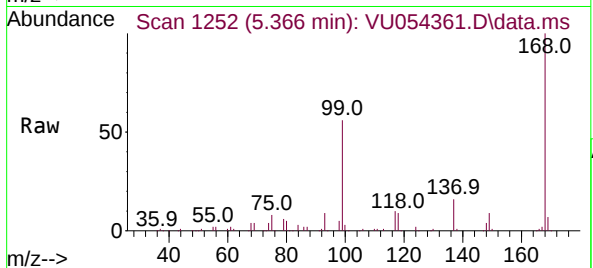
Acq: 01 Jun 2023 00:54

Instrument :

MSVOA_U

ClientSampleId :

PB153123ZHE#12



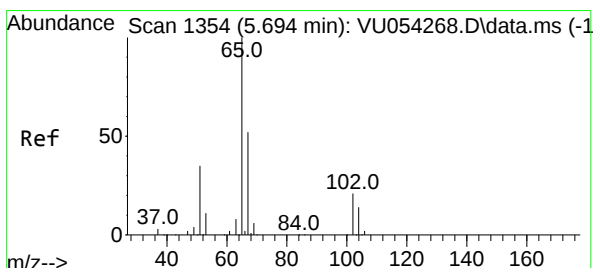
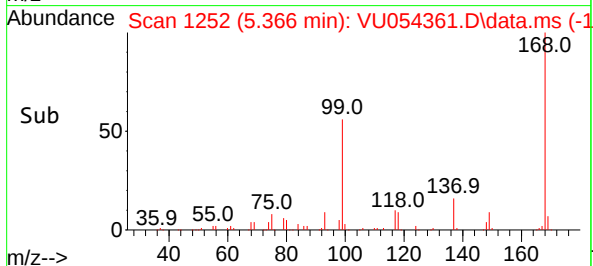
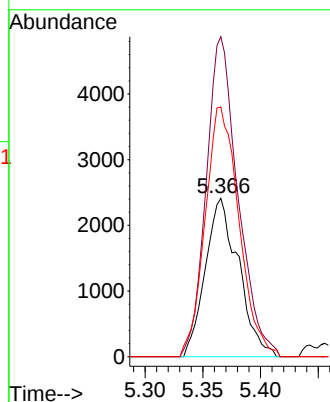
Tgt Ion: 56 Resp: 4828

Ion Ratio Lower Upper

56 100

69 202.0 27.8 41.8#

84 157.6 74.2 111.4#



#33

1,2-Dichloroethane-d4

Concen: 54.009 ug/l

RT: 5.697 min Scan# 1355

Delta R.T. 0.003 min

Lab File: VU054361.D

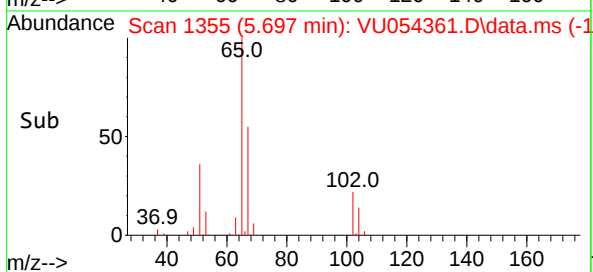
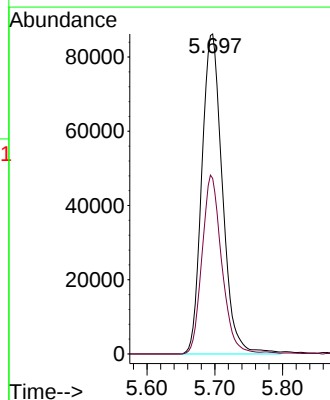
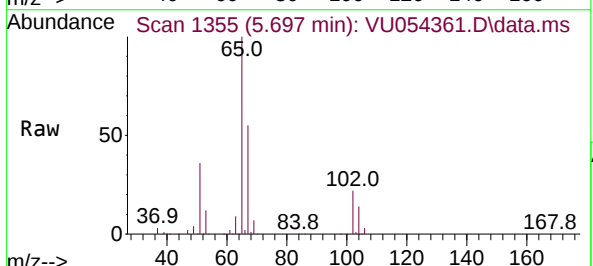
Acq: 01 Jun 2023 00:54

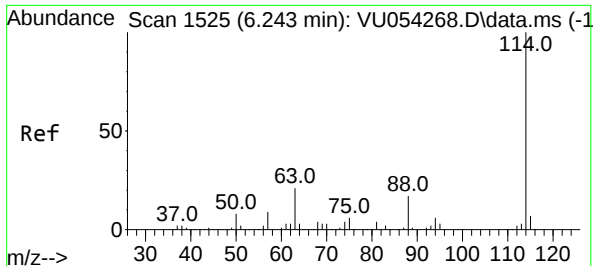
Tgt Ion: 65 Resp: 182142

Ion Ratio Lower Upper

65 100

67 53.3 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: VU054361.D

Acq: 01 Jun 2023 00:54

Instrument :

MSVOA_U

ClientSampleId :

PB153123ZHE#12

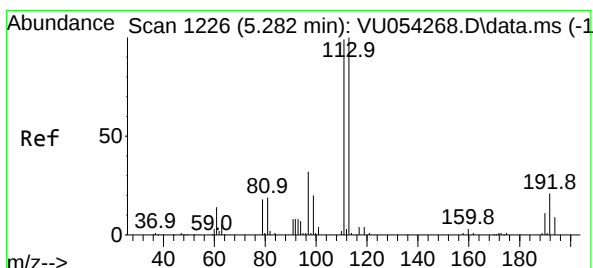
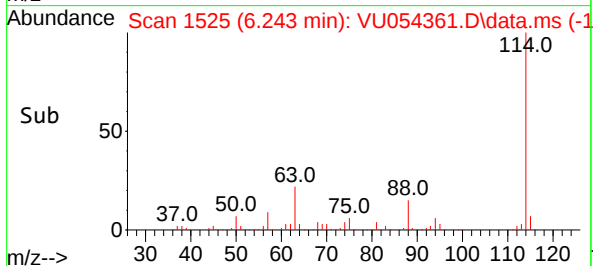
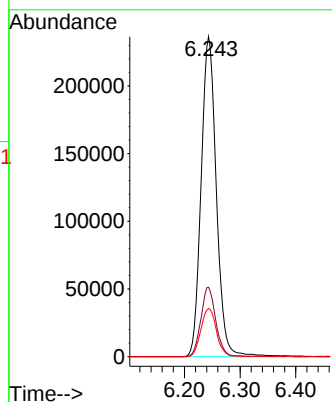
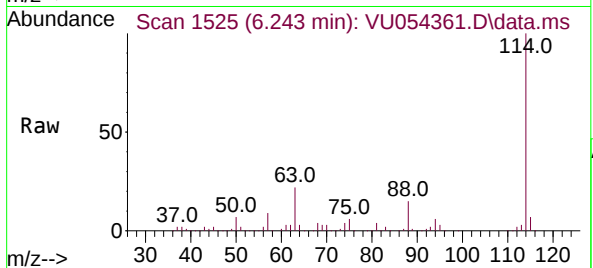
Tgt Ion:114 Resp: 448468

Ion Ratio Lower Upper

114 100

63 21.7 0.0 37.8

88 15.0 0.0 29.2



#35

Dibromofluoromethane

Concen: 52.124 ug/l

RT: 5.282 min Scan# 1226

Delta R.T. -0.000 min

Lab File: VU054361.D

Acq: 01 Jun 2023 00:54

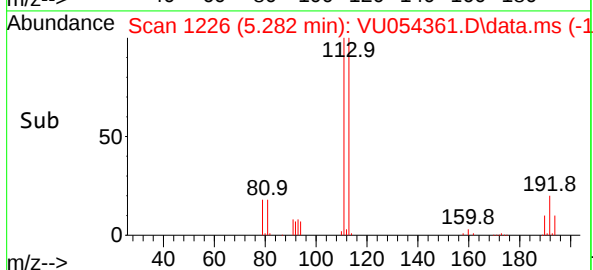
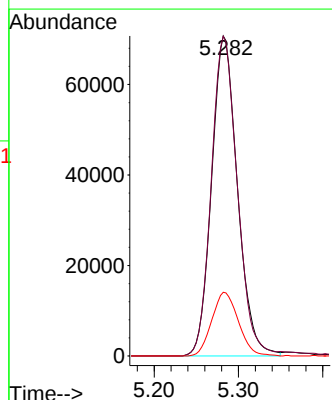
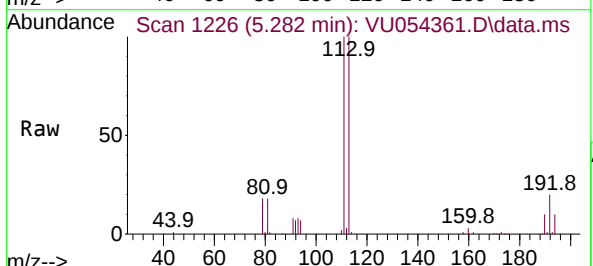
Tgt Ion:113 Resp: 150535

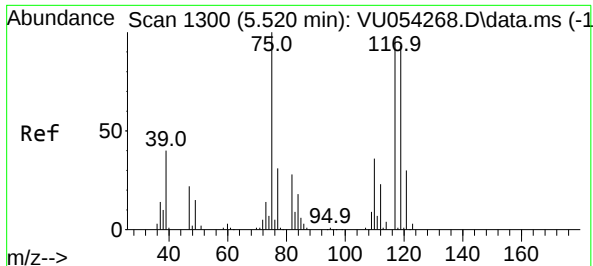
Ion Ratio Lower Upper

113 100

111 100.2 82.1 123.1

192 20.5 18.0 27.0





#36

1,1-Dichloropropene

Concen: 4.335 ug/l

RT: 5.369 min Scan# 11

Delta R.T. -0.151 min

Lab File: VU054361.D

Acq: 01 Jun 2023 00:54

Instrument :

MSVOA_U

ClientSampleId :

PB153123ZHE#12

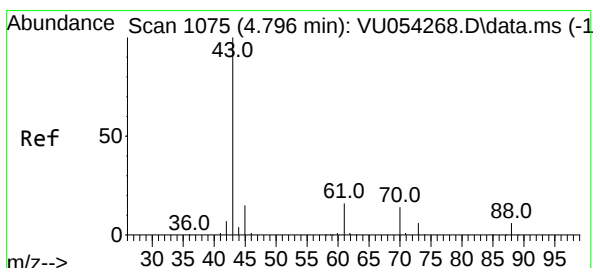
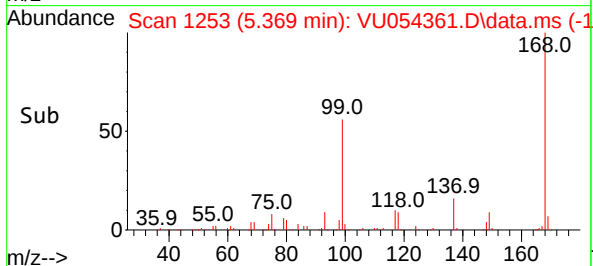
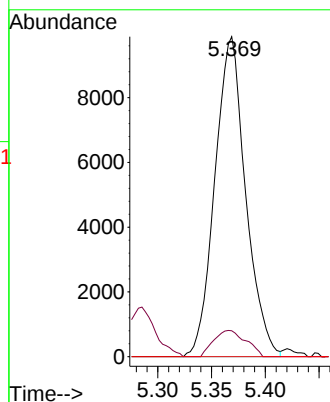
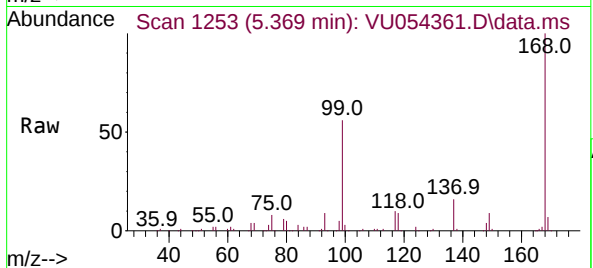
Tgt Ion: 75 Resp: 19664

Ion Ratio Lower Upper

75 100

110 8.6 18.4 55.2#

77 0.0 25.1 37.7#



#37

Ethyl Acetate

Concen: 8.636 ug/l

RT: 4.803 min Scan# 1077

Delta R.T. 0.007 min

Lab File: VU054361.D

Acq: 01 Jun 2023 00:54

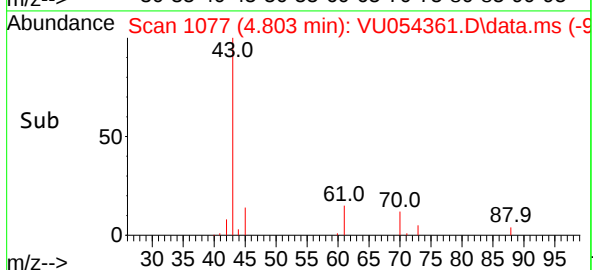
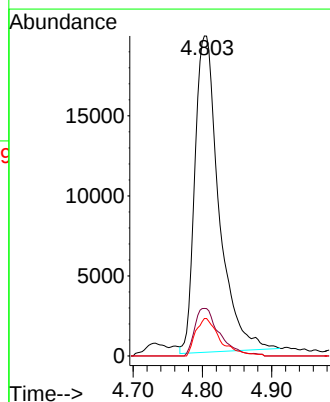
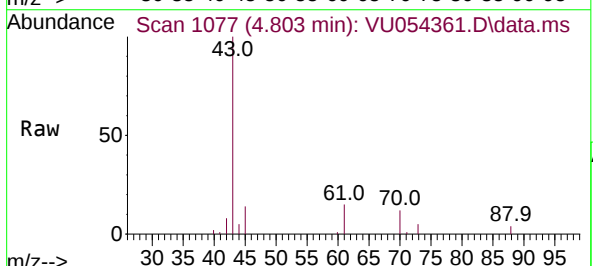
Tgt Ion: 43 Resp: 47742

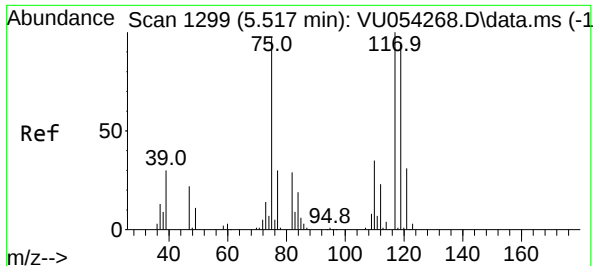
Ion Ratio Lower Upper

43 100

61 15.4 9.5 14.3#

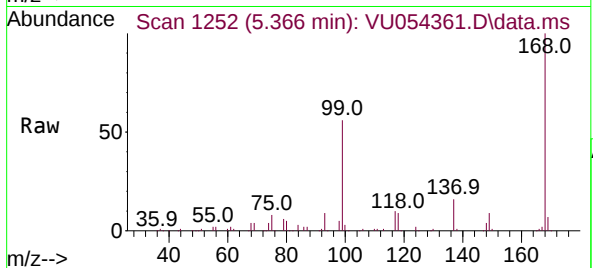
70 12.1 7.5 11.3#



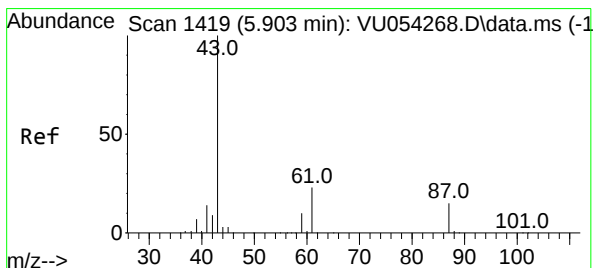
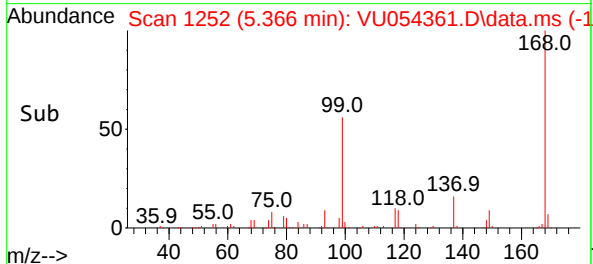
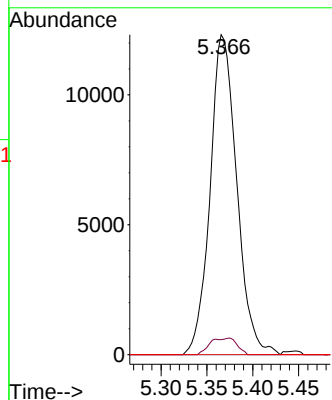


#38
Carbon Tetrachloride
Concen: 5.366 ug/l
RT: 5.366 min Scan# 117
Delta R.T. -0.151 min
Lab File: VU054361.D
Acq: 01 Jun 2023 00:54

Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#12

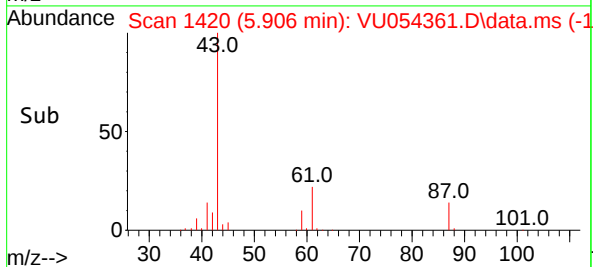
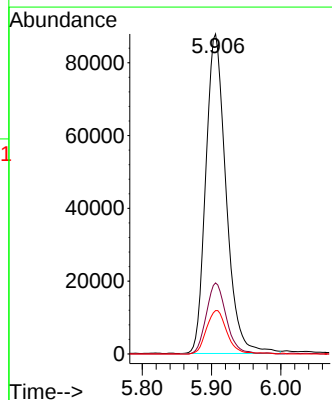
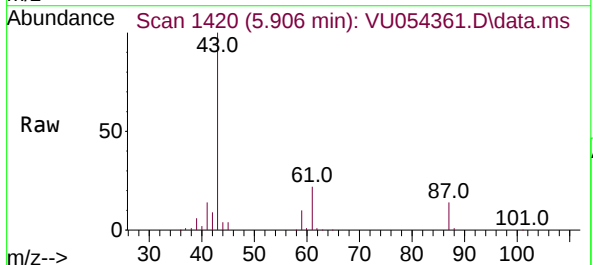


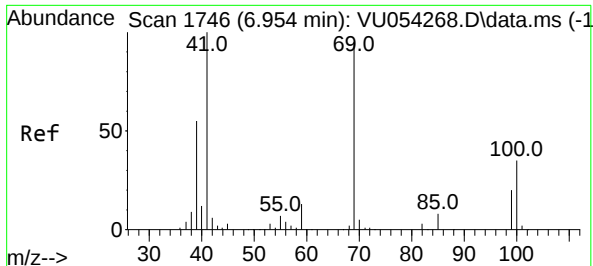
Tgt Ion:117 Resp: 24916
Ion Ratio Lower Upper
117 100
119 4.7 76.8 115.2#
121 0.0 24.7 37.1#



#43
Isopropyl Acetate
Concen: 23.360 ug/l
RT: 5.906 min Scan# 1420
Delta R.T. 0.003 min
Lab File: VU054361.D
Acq: 01 Jun 2023 00:54

Tgt Ion: 43 Resp: 178131
Ion Ratio Lower Upper
43 100
61 21.9 17.4 26.0
87 13.6 12.6 18.8





#48

Methyl methacrylate

Concen: 46.745 ug/l

RT: 7.031 min Scan# 1

Delta R.T. 0.077 min

Lab File: VU054361.D

Acq: 01 Jun 2023 00:54

Instrument :

MSVOA_U

ClientSampleId :

PB153123ZHE#12

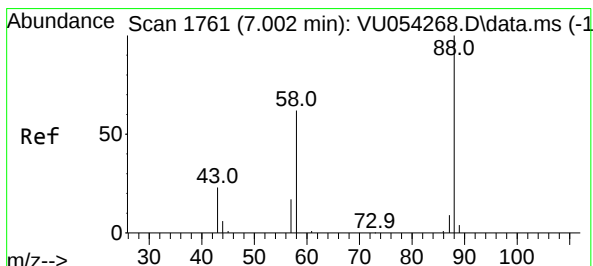
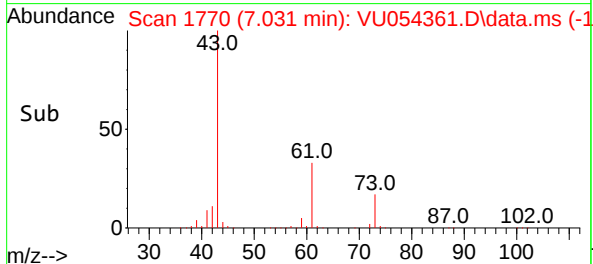
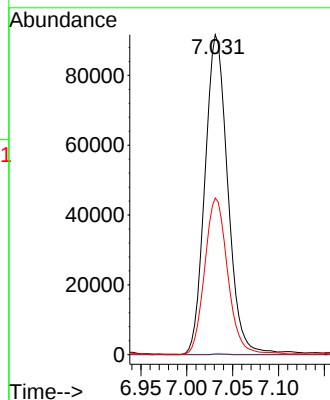
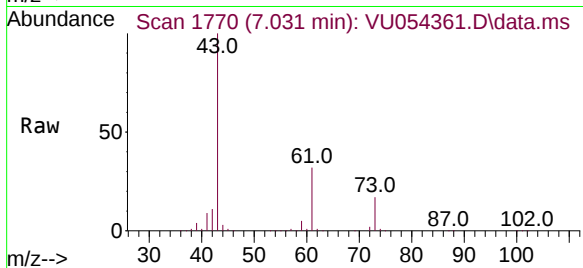
Tgt Ion: 41 Resp: 158076

Ion Ratio Lower Upper

41 100

69 0.1 79.8 119.6#

39 49.9 47.9 71.9



#49

1,4-Dioxane

Concen: 2.520 ug/l

RT: 7.028 min Scan# 1769

Delta R.T. 0.026 min

Lab File: VU054361.D

Acq: 01 Jun 2023 00:54

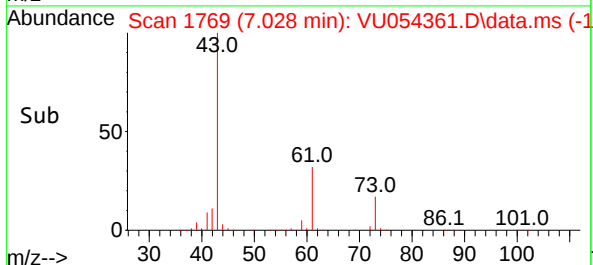
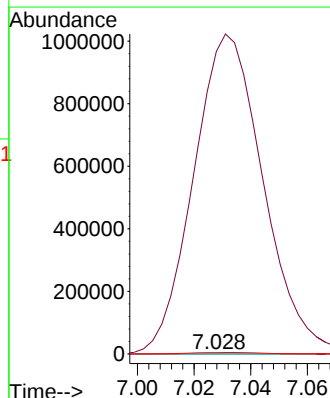
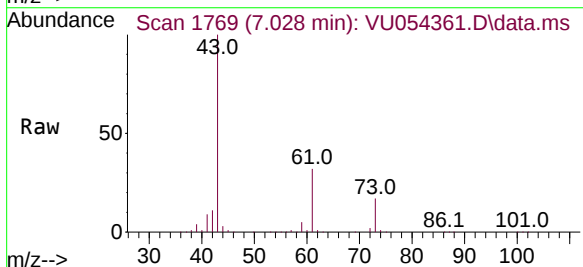
Tgt Ion: 88 Resp: 246

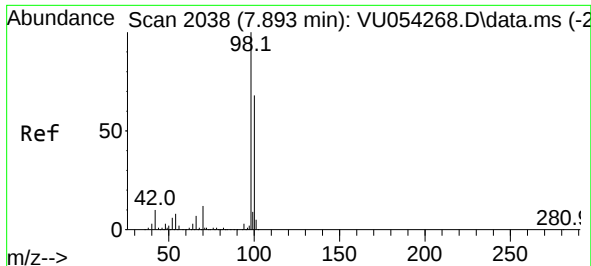
Ion Ratio Lower Upper

88 100

43 724375.6 0.0 0.0#

58 3469.5 15.4 23.0#

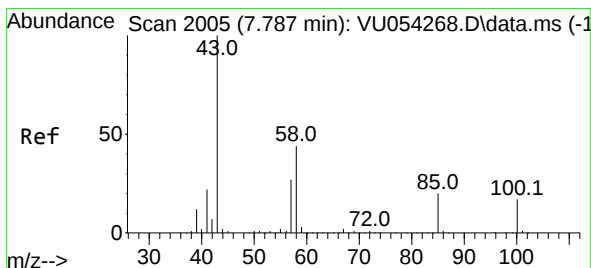
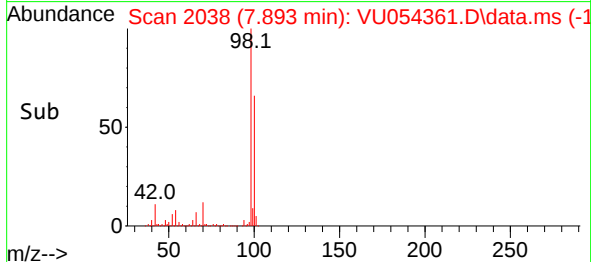
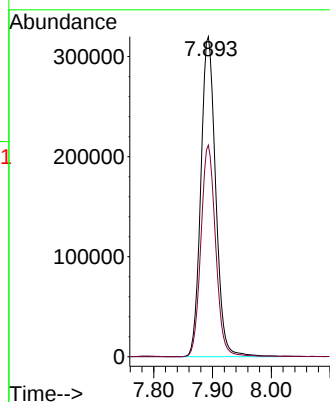
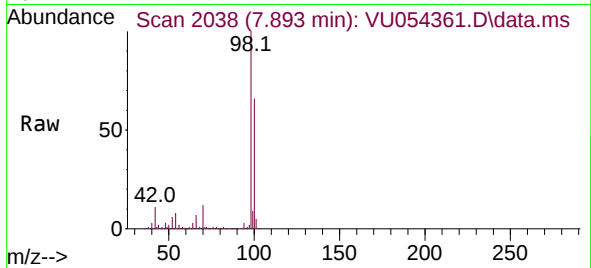




#50
Toluene-d8
Concen: 51.083 ug/l
RT: 7.893 min Scan# 2038
Delta R.T. -0.000 min
Lab File: VU054361.D
Acq: 01 Jun 2023 00:54

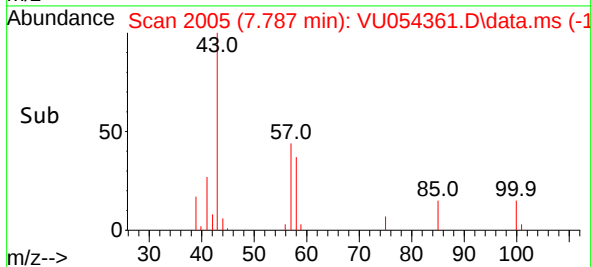
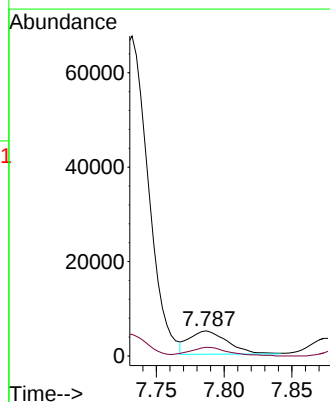
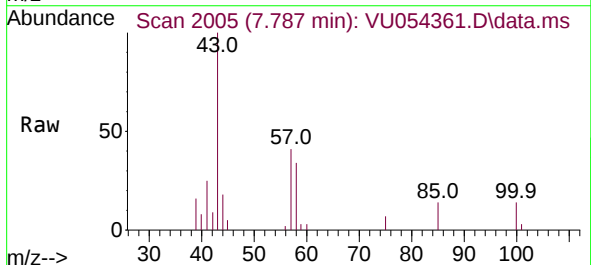
Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#12

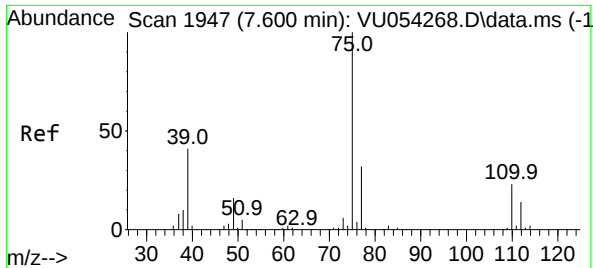
Tgt Ion: 98 Resp: 561151
Ion Ratio Lower Upper
98 100
100 65.7 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 1.920 ug/l
RT: 7.787 min Scan# 2005
Delta R.T. -0.000 min
Lab File: VU054361.D
Acq: 01 Jun 2023 00:54

Tgt Ion: 43 Resp: 9769
Ion Ratio Lower Upper
43 100
58 37.0 34.7 52.1

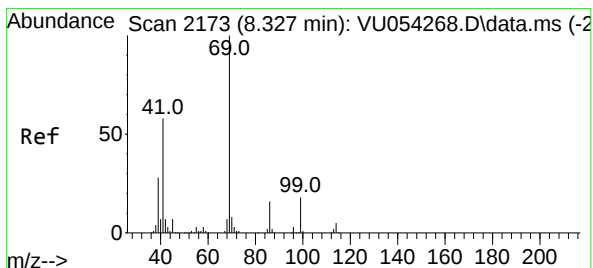
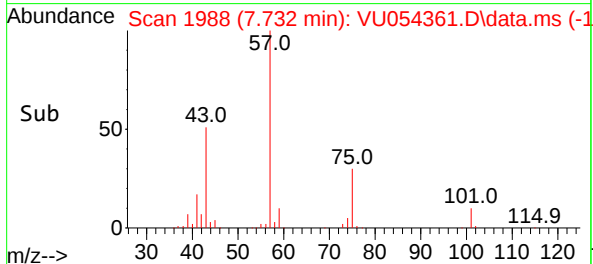
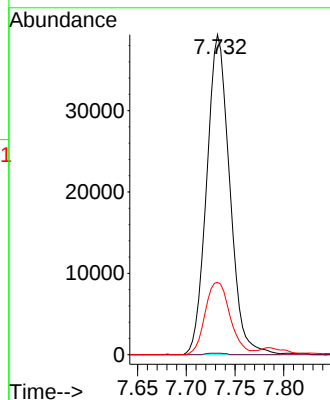
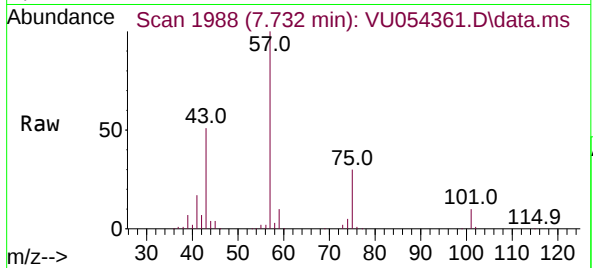




#54
cis-1,3-Dichloropropene
Concen: 11.660 ug/l
RT: 7.732 min Scan# 1947
Delta R.T. 0.132 min
Lab File: VU054361.D
Acq: 01 Jun 2023 00:54

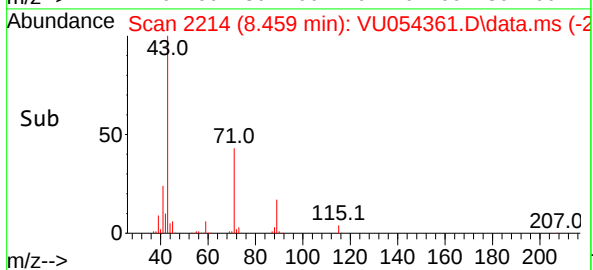
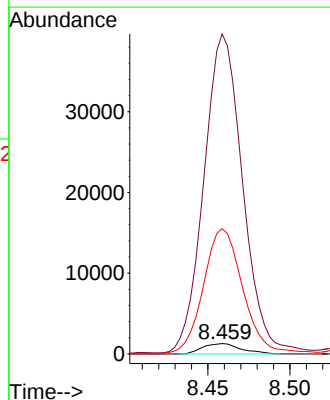
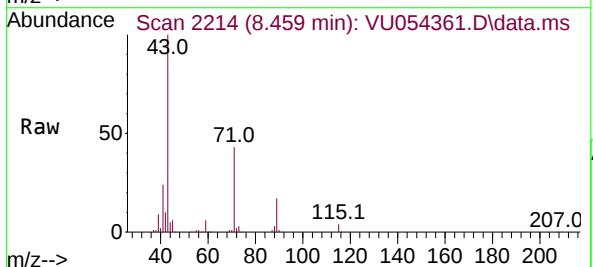
Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#12

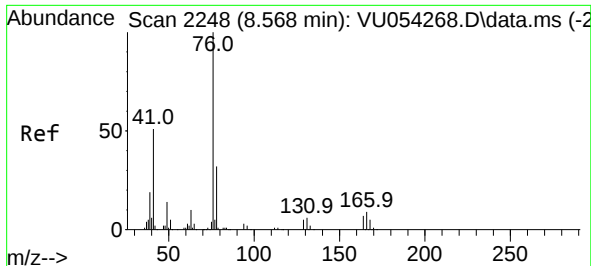
Tgt Ion: 75 Resp: 64688
Ion Ratio Lower Upper
75 100
77 0.5 25.7 38.5#
39 22.6 33.0 49.6#



#56
Ethyl methacrylate
Concen: 0.408 ug/l
RT: 8.459 min Scan# 2214
Delta R.T. 0.132 min
Lab File: VU054361.D
Acq: 01 Jun 2023 00:54

Tgt Ion: 69 Resp: 2075
Ion Ratio Lower Upper
69 100
41 3121.8 45.4 68.0#
39 1253.8 25.7 38.5#





#57

1,3-Dichloropropane

Concen: 1.487 ug/l

RT: 8.719 min Scan# 21

Delta R.T. 0.151 min

Lab File: VU054361.D

Acq: 01 Jun 2023 00:54

Instrument :

MSVOA_U

ClientSampleId :

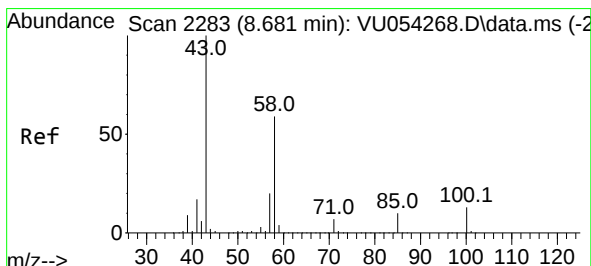
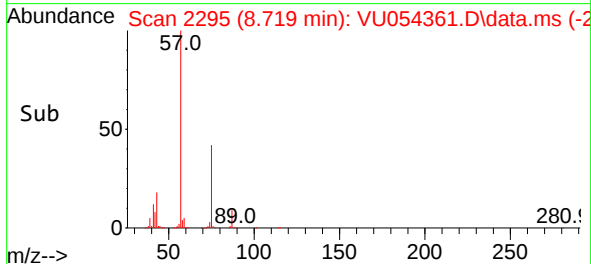
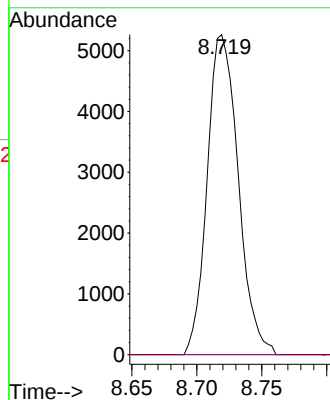
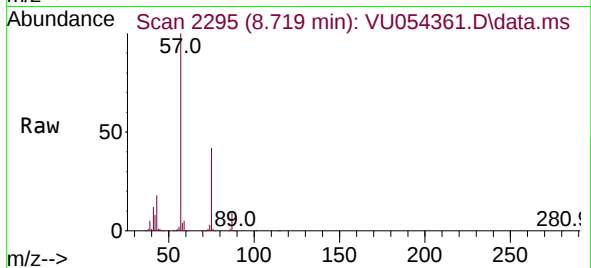
PB153123ZHE#12

Tgt Ion: 76 Resp: 8753

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 25.967 ug/l

RT: 8.722 min Scan# 2296

Delta R.T. 0.041 min

Lab File: VU054361.D

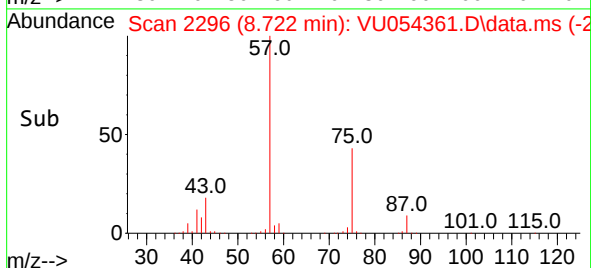
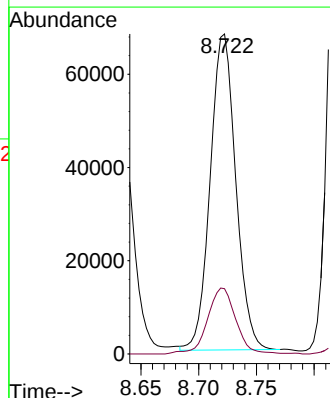
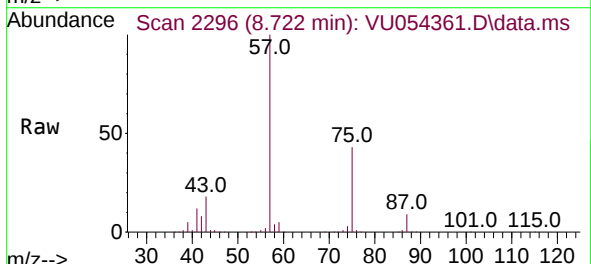
Acq: 01 Jun 2023 00:54

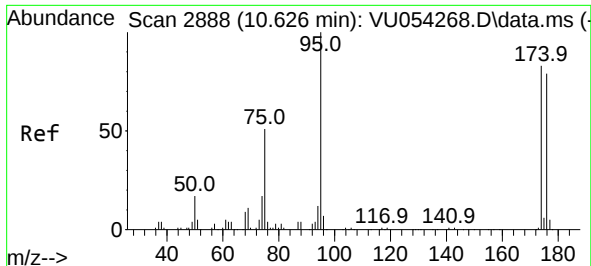
Tgt Ion: 43 Resp: 104383

Ion Ratio Lower Upper

43 100

58 23.0 30.3 90.8#

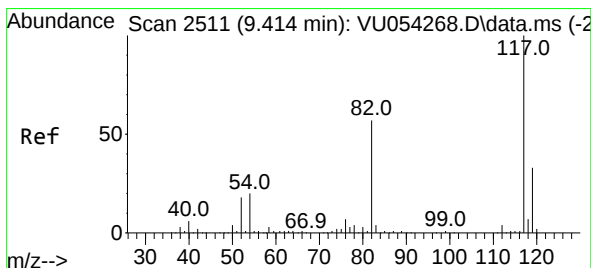
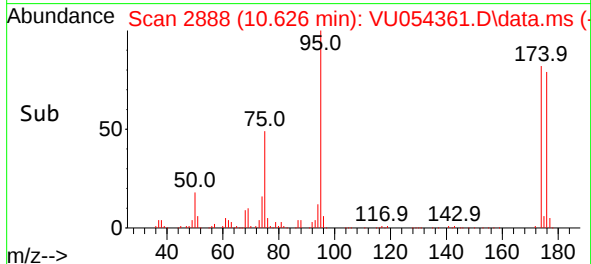
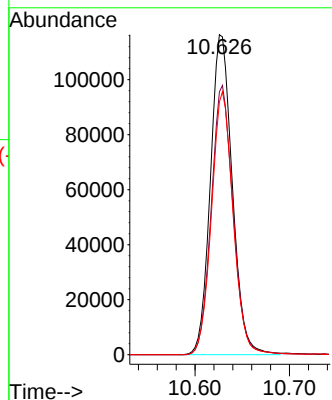
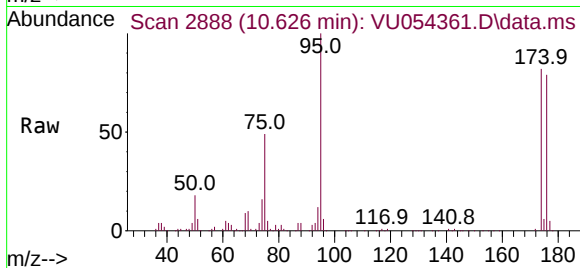




#62
4-Bromofluorobenzene
Concen: 43.945 ug/l
RT: 10.626 min Scan# 2888
Delta R.T. -0.000 min
Lab File: VU054361.D
Acq: 01 Jun 2023 00:54

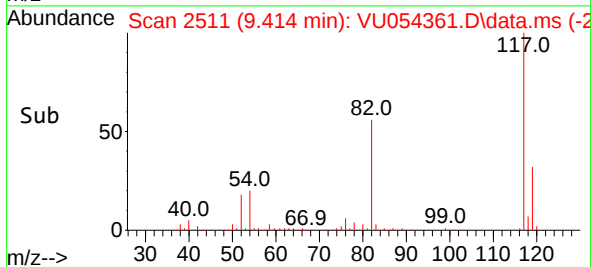
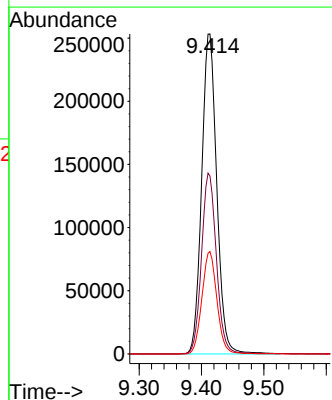
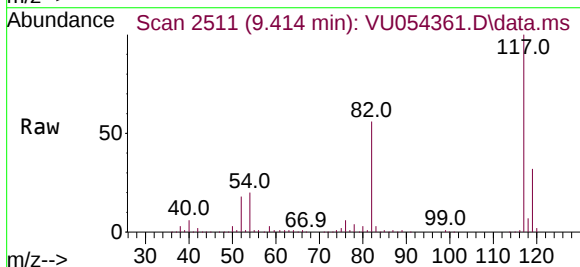
Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#12

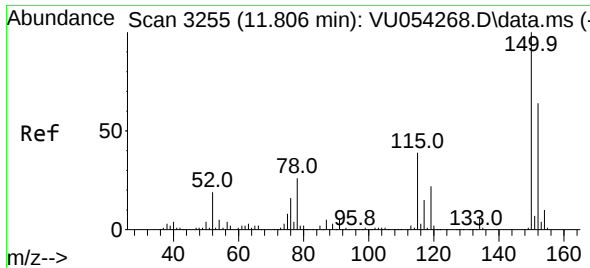
Tgt Ion: 95 Resp: 187179
Ion Ratio Lower Upper
95 100
174 84.2 0.0 182.0
176 81.3 0.0 177.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.414 min Scan# 2511
Delta R.T. -0.000 min
Lab File: VU054361.D
Acq: 01 Jun 2023 00:54

Tgt Ion: 117 Resp: 426267
Ion Ratio Lower Upper
117 100
82 55.6 41.7 62.5
119 32.0 25.7 38.5

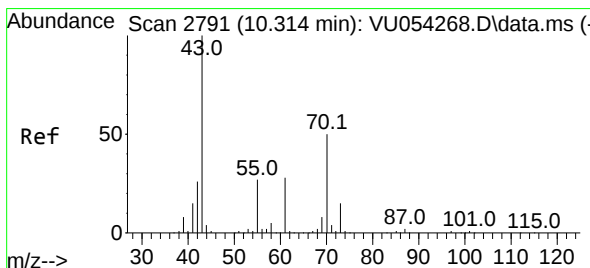
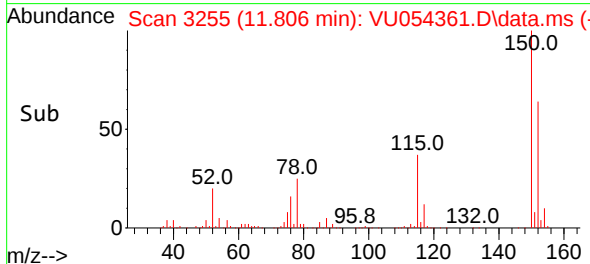
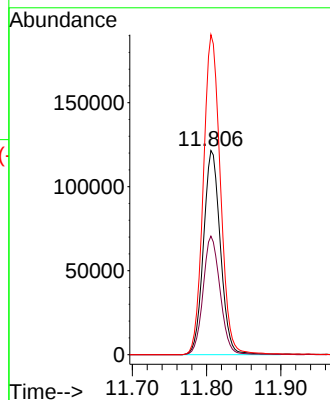
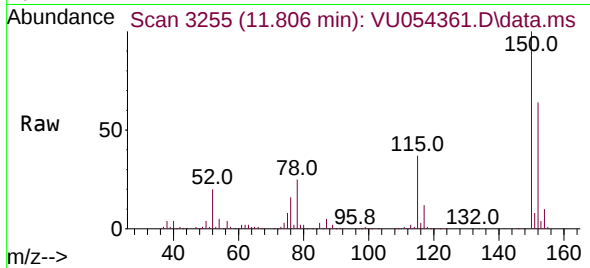




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.806 min Scan# 31
Delta R.T. -0.000 min
Lab File: VU054361.D
Acq: 01 Jun 2023 00:54

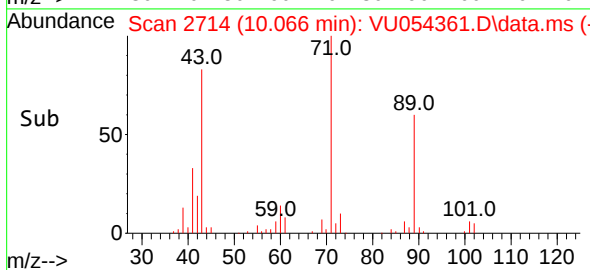
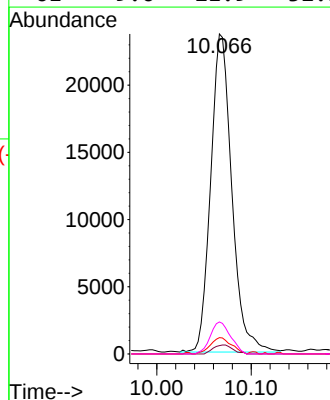
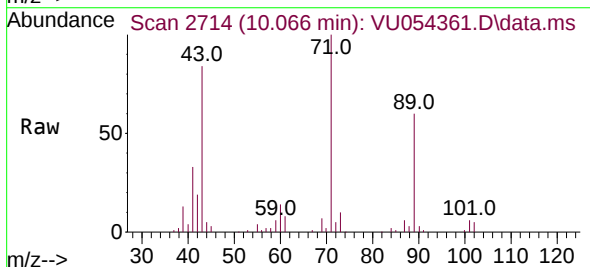
Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#12

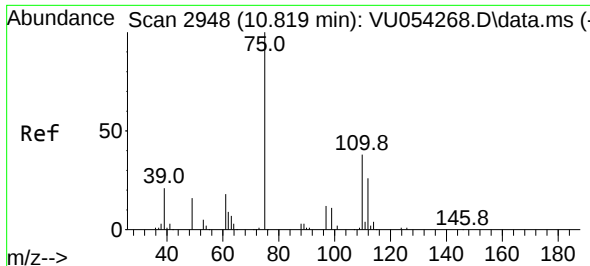
Tgt Ion:152 Resp: 192120
Ion Ratio Lower Upper
152 100
115 58.3 37.0 110.9
150 158.1 0.0 342.2



#74
N-ethyl acetate
Concen: 7.269 ug/l
RT: 10.066 min Scan# 2714
Delta R.T. -0.248 min
Lab File: VU054361.D
Acq: 01 Jun 2023 00:54

Tgt Ion: 43 Resp: 36724
Ion Ratio Lower Upper
43 100
70 2.6 38.7 58.1#
55 5.1 21.8 32.8#
61 9.6 21.9 32.9#

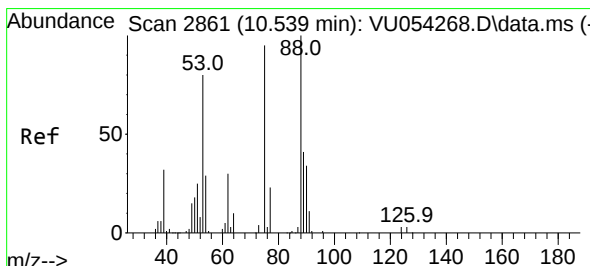
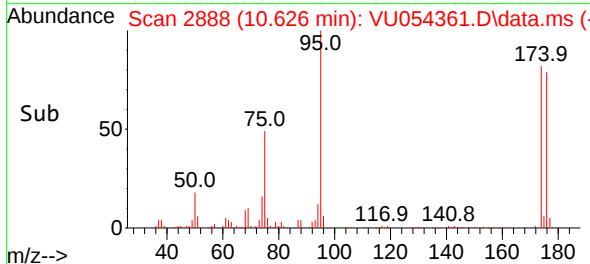
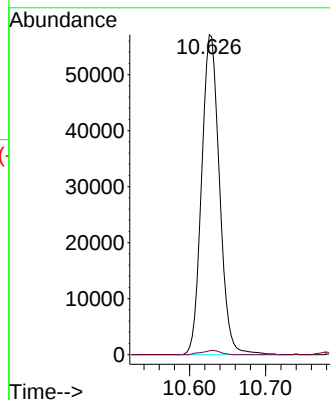
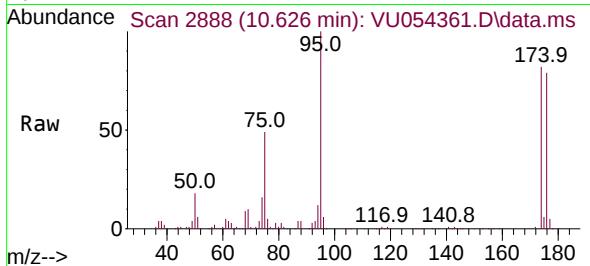




#76
1,2,3-Trichloropropane
Concen: 16.625 ug/l
RT: 10.626 min Scan# 21
Delta R.T. -0.193 min
Lab File: VU054361.D
Acq: 01 Jun 2023 00:54

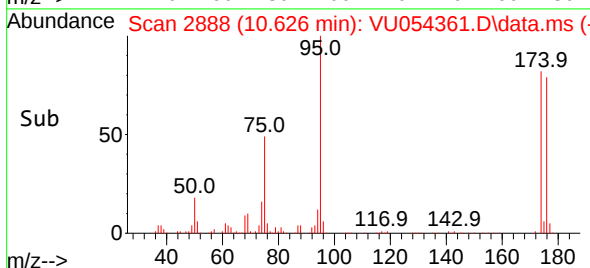
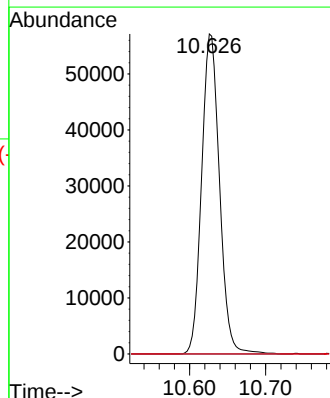
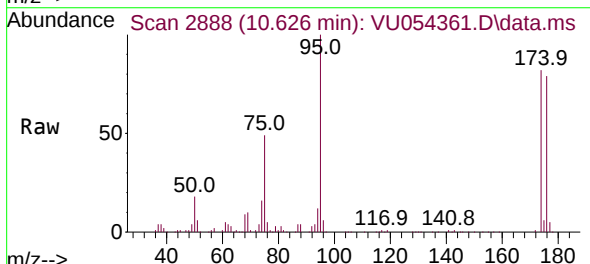
Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#12

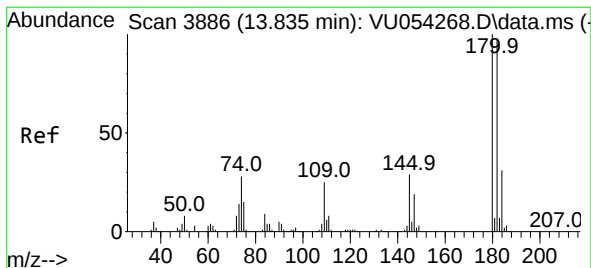
Tgt Ion: 75 Resp: 93222
Ion Ratio Lower Upper
75 100
77 1.4 15.8 47.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 63.309 ug/l
RT: 10.626 min Scan# 2888
Delta R.T. 0.087 min
Lab File: VU054361.D
Acq: 01 Jun 2023 00:54

Tgt Ion: 75 Resp: 93222
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: 1.936 ug/l

RT: 13.841 min Scan# 3888

Delta R.T. 0.006 min

Lab File: VU054361.D

Acq: 01 Jun 2023 00:54

Instrument :

MSVOA_U

ClientSampleId :

PB153123ZHE#12

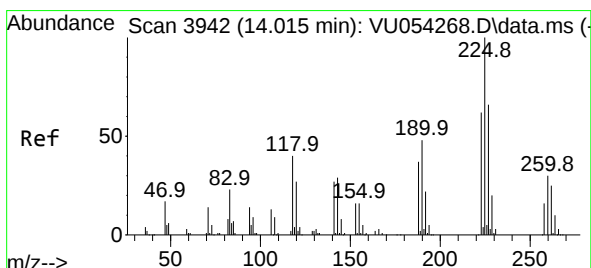
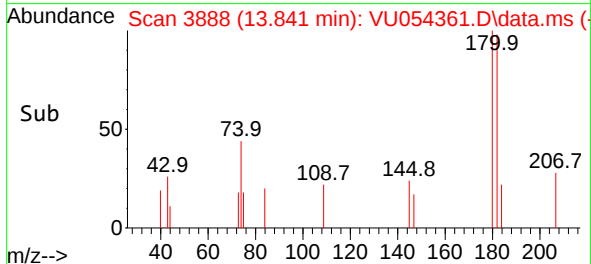
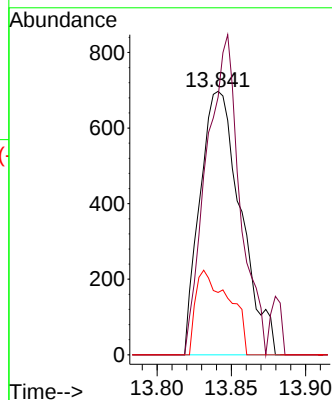
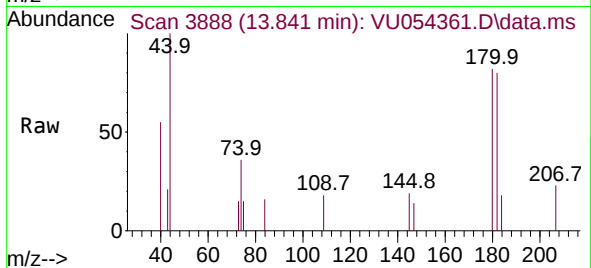
Tgt Ion:180 Resp: 1336

Ion Ratio Lower Upper

180 100

182 99.6 47.9 143.6

145 26.1 14.0 41.9



#94

Hexachlorobutadiene

Concen: 0.879 ug/l

RT: 14.021 min Scan# 3944

Delta R.T. 0.006 min

Lab File: VU054361.D

Acq: 01 Jun 2023 00:54

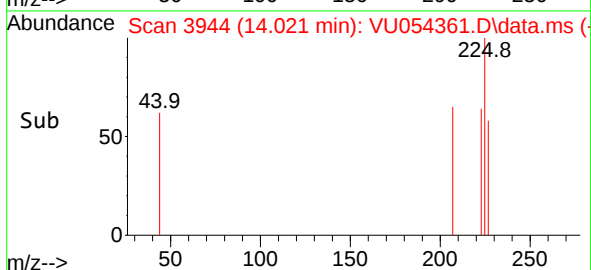
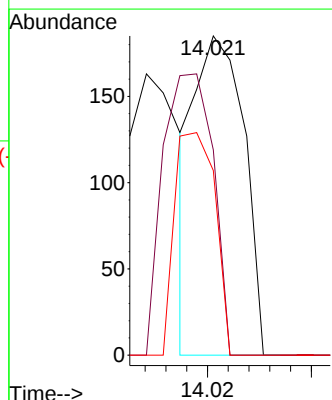
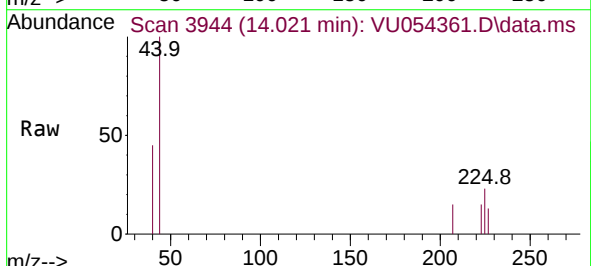
Tgt Ion:225 Resp: 123

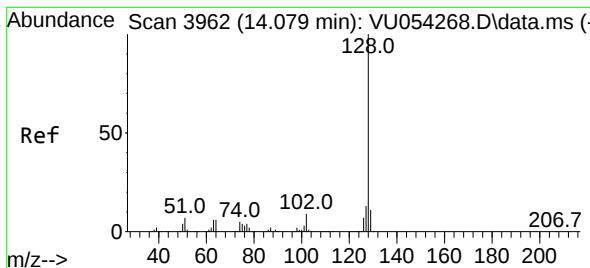
Ion Ratio Lower Upper

225 100

223 88.6 31.3 93.9

227 56.9 32.0 96.2





#95

Naphthalene

Concen: 2.344 ug/l

RT: 14.089 min Scan# 3962

Delta R.T. 0.010 min

Lab File: VU054361.D

Acq: 01 Jun 2023 00:54

Instrument :

MSVOA_U

ClientSampleId :

PB153123ZHE#12

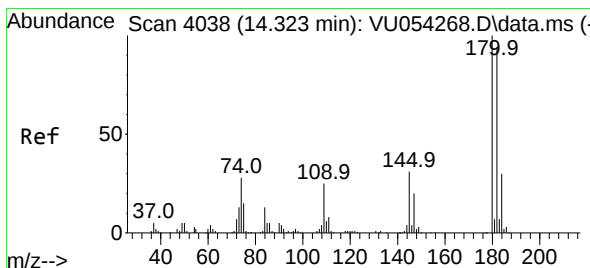
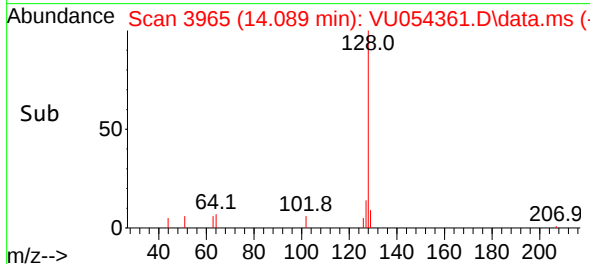
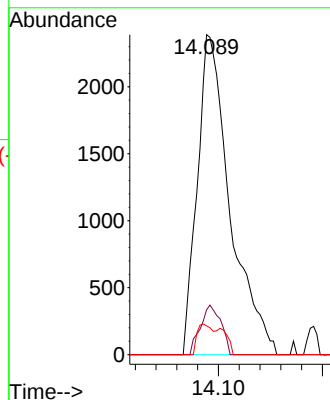
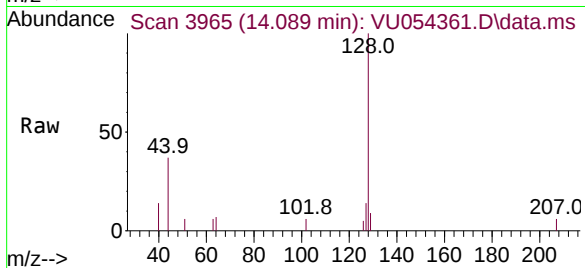
Tgt Ion:128 Resp: 5225

Ion Ratio Lower Upper

128 100

127 9.7 10.3 15.5#

129 4.4 8.6 13.0#



#96

1,2,3-Trichlorobenzene

Concen: 1.560 ug/l

RT: 14.327 min Scan# 4039

Delta R.T. 0.004 min

Lab File: VU054361.D

Acq: 01 Jun 2023 00:54

Tgt Ion:180 Resp: 1373

Ion Ratio Lower Upper

180 100

182 94.9 48.4 145.0

145 24.3 14.8 44.4

