

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU053123\
 Data File : VU054348.D
 Acq On : 31 May 2023 19:23
 Operator : JC/MD
 Sample : PB153123ZHE#07
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PB153123ZHE#07

Quant Time: Jun 01 05:25:34 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)

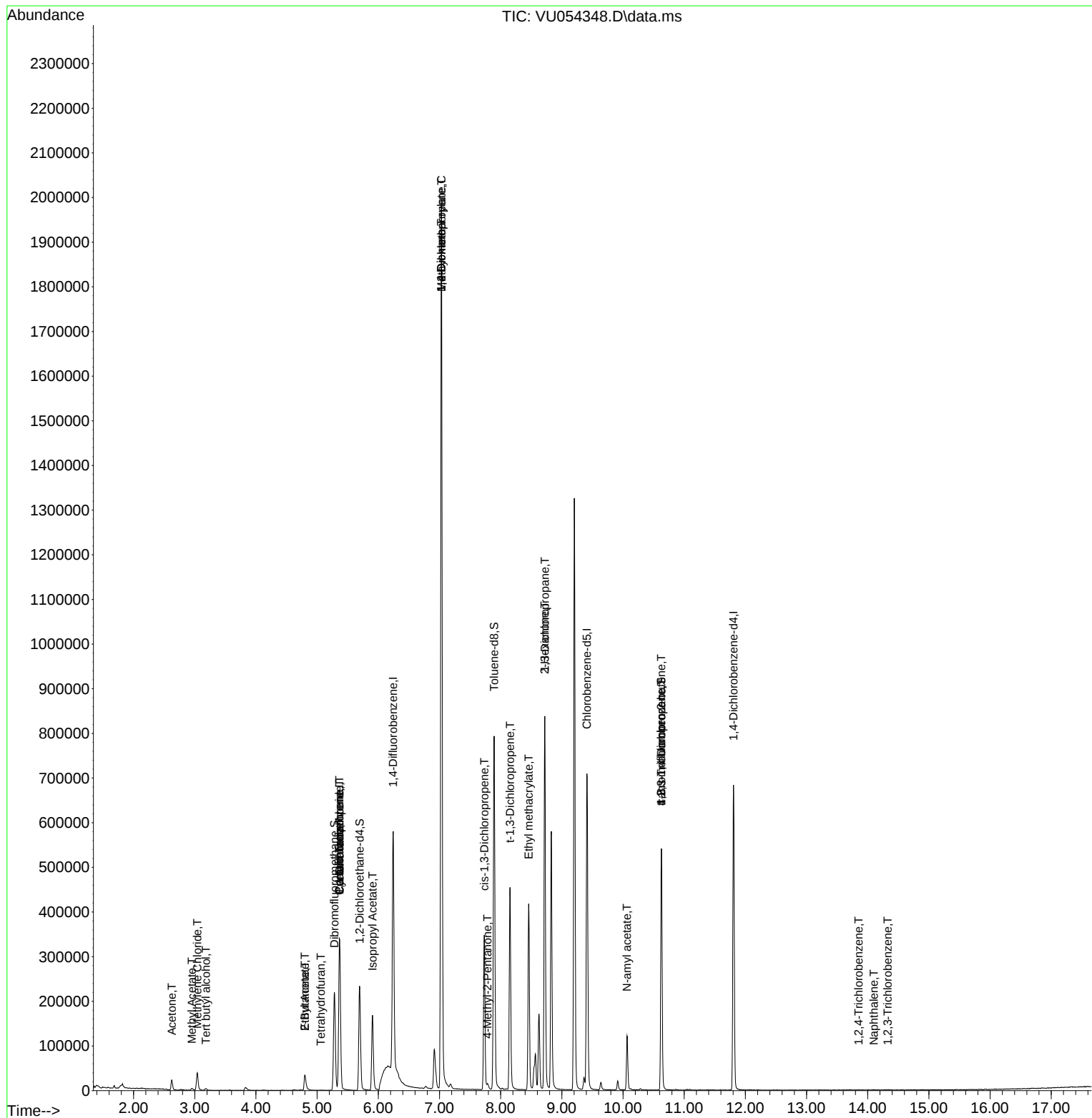
Internal Standards						
1) Pentafluorobenzene	5.366	168	247331	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.244	114	436639	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.411	117	404180	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.806	152	189492	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.697	65	176114	54.318	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 108.640%	
35) Dibromofluoromethane	5.282	113	142498	50.678	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 101.360%	
50) Toluene-d8	7.893	98	531714	49.714	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 99.420%	
62) 4-Bromofluorobenzene	10.626	95	179617	43.312	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 86.620%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	3.183	59	2961	3.381	ug/l #	37
16) Acetone	2.623	43	26078	14.032	ug/l	100
18) Methyl Acetate	2.951	43	6601	0.973	ug/l #	72
20) Methylene Chloride	3.041	84	19881	5.930	ug/l	90
25) 2-Butanone	4.800	43	46105	18.737	ug/l #	45
29) Tetrahydrofuran	5.060	42	395	0.255	ug/l #	26
31) Cyclohexane	5.369	56	4823	1.053	ug/l #	3
36) 1,1-Dichloropropene	5.366	75	18502	4.189	ug/l #	48
37) Ethyl Acetate	4.800	43	46105	8.566	ug/l #	92
38) Carbon Tetrachloride	5.366	117	23935	5.295	ug/l #	16
43) Isopropyl Acetate	5.906	43	175590	23.651	ug/l	98
45) 1,2-Dichloropropane	7.031	63	2300	0.700	ug/l #	43
48) Methyl methacrylate	7.031	41	157386	47.802	ug/l #	33
49) 1,4-Dioxane	7.028	88	89	0.936	ug/l #	1
51) 4-Methyl-2-Pentanone	7.784	43	9027	1.822	ug/l #	79
53) t-1,3-Dichloropropene	8.153	75	1103	0.213	ug/l #	43
54) cis-1,3-Dichloropropene	7.732	75	62472	11.566	ug/l #	63
56) Ethyl methacrylate	8.459	69	2204	0.445	ug/l #	1
57) 1,3-Dichloropropane	8.723	76	8606	1.501	ug/l #	42
59) 2-Hexanone	8.719	43	107187	27.387	ug/l #	50
74) N-amyl acetate	10.067	43	35991	7.223	ug/l #	49
76) 1,2,3-Trichloropropane	10.626	75	90843	16.426	ug/l #	46
81) trans-1,4-Dichloro-2-b...	10.626	75	90843	62.549	ug/l #	15
93) 1,2,4-Trichlorobenzene	13.851	180	329	1.716	ug/l #	61
95) Naphthalene	14.102	128	885	2.052	ug/l #	72
96) 1,2,3-Trichlorobenzene	14.327	180	114	1.280	ug/l #	57

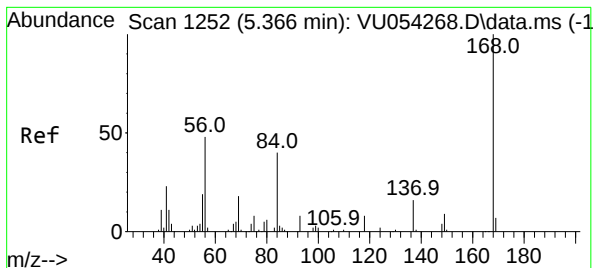
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU053123\
Data File : VU054348.D
Acq On : 31 May 2023 19:23
Operator : JC/MD
Sample : PB153123ZHE#07
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#07

Quant Time: Jun 01 05:25:34 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

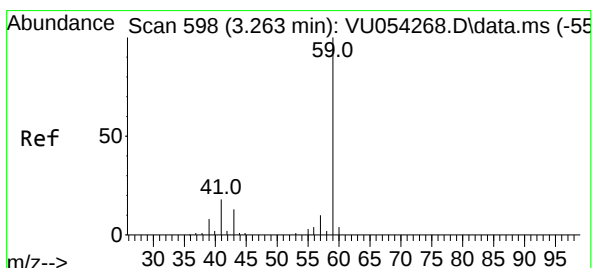
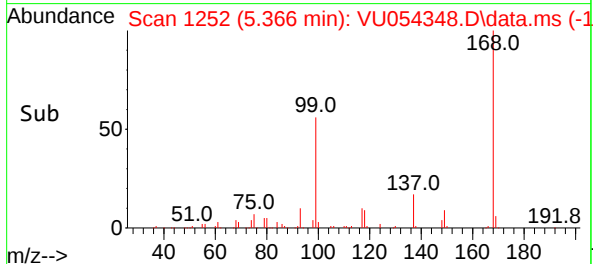
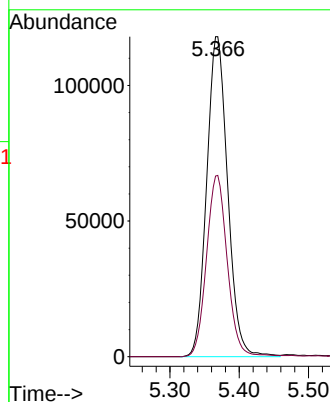
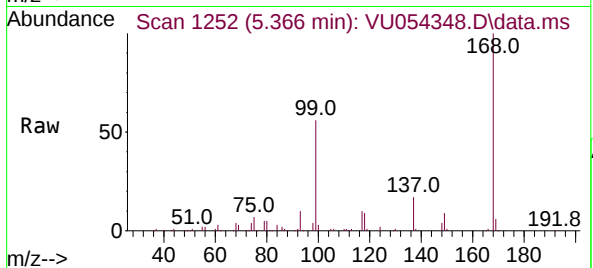




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.366 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU054348.D
Acq: 31 May 2023 19:23

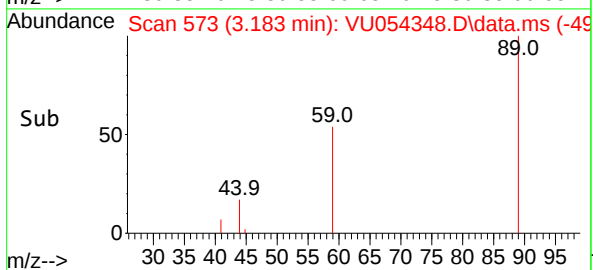
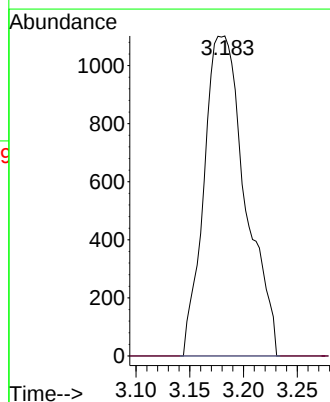
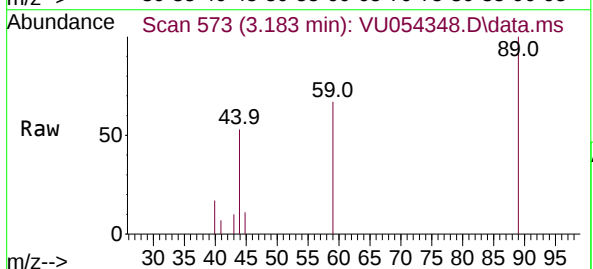
Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#07

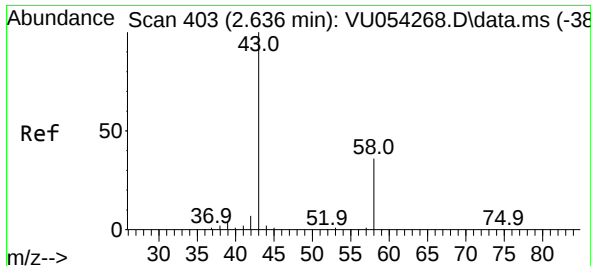
Tgt Ion:168 Resp: 247331
Ion Ratio Lower Upper
168 100
99 56.5 39.3 58.9



#11
Tert butyl alcohol
Concen: 3.381 ug/l
RT: 3.183 min Scan# 573
Delta R.T. -0.060 min
Lab File: VU054348.D
Acq: 31 May 2023 19:23

Tgt Ion: 59 Resp: 2961
Ion Ratio Lower Upper
59 100
57 0.0 30.6 45.8#

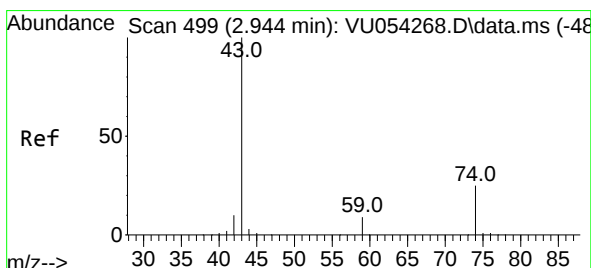
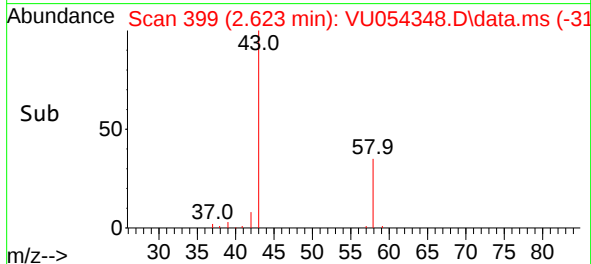
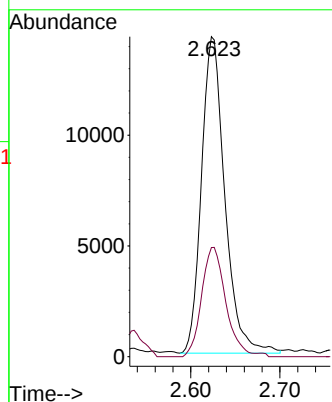
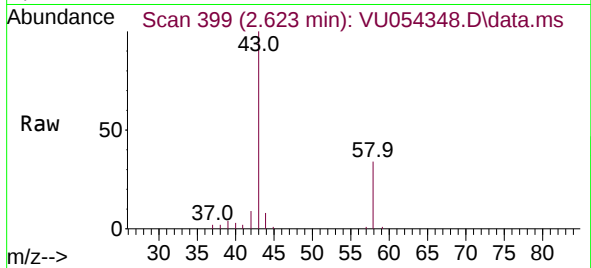




#16
Acetone
Concen: 14.032 ug/l
RT: 2.623 min Scan# 31
Delta R.T. -0.013 min
Lab File: VU054348.D
Acq: 31 May 2023 19:23

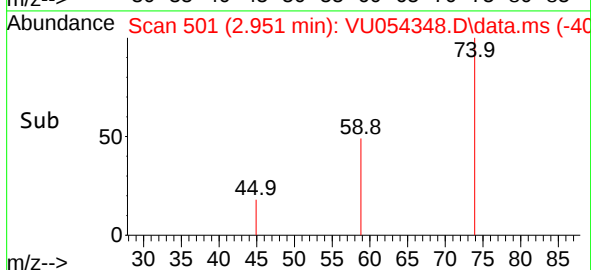
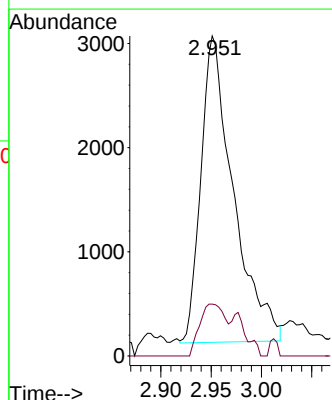
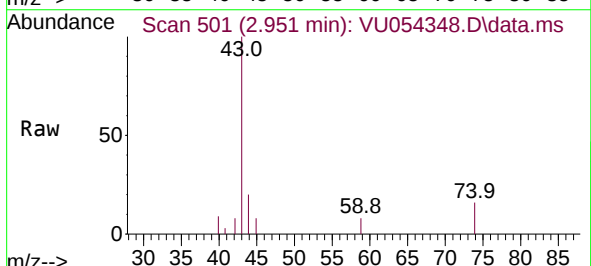
Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#07

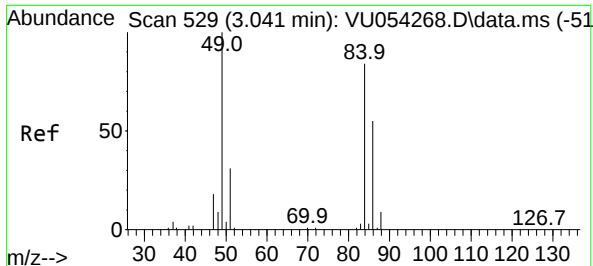
Tgt Ion: 43 Resp: 26078
Ion Ratio Lower Upper
43 100
58 34.5 27.5 41.3



#18
Methyl Acetate
Concen: 0.973 ug/l
RT: 2.951 min Scan# 501
Delta R.T. 0.007 min
Lab File: VU054348.D
Acq: 31 May 2023 19:23

Tgt Ion: 43 Resp: 6601
Ion Ratio Lower Upper
43 100
74 13.2 22.5 33.7#

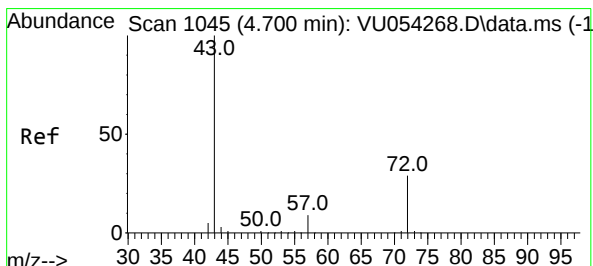
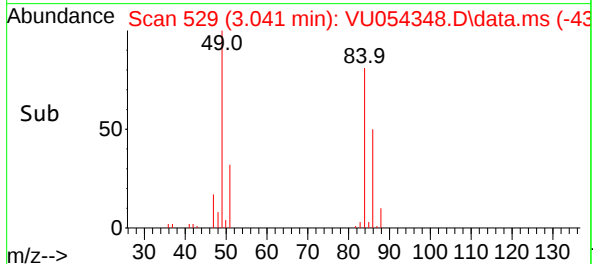
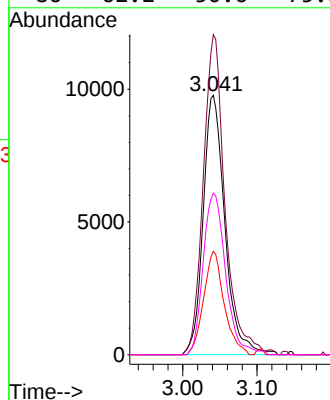
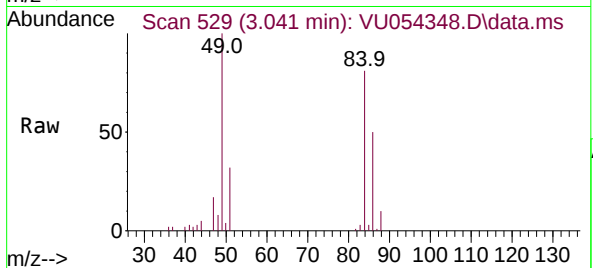




#20
Methylene Chloride
Concen: 5.930 ug/l
RT: 3.041 min Scan# 51
Delta R.T. 0.000 min
Lab File: VU054348.D
Acq: 31 May 2023 19:23

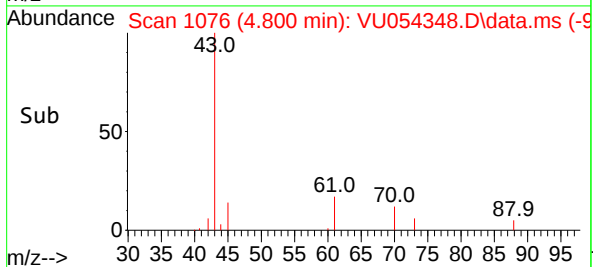
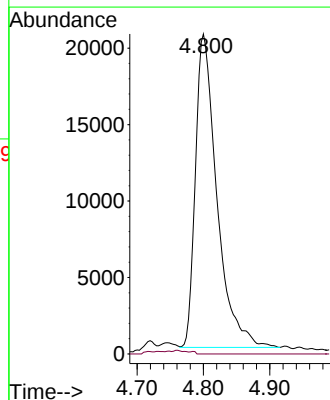
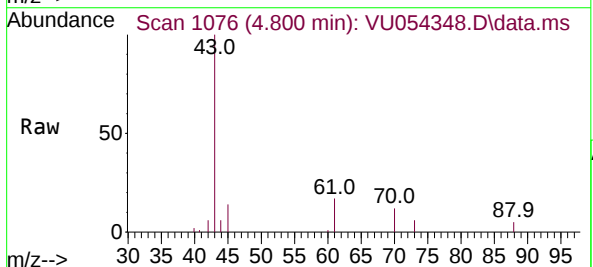
Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#07

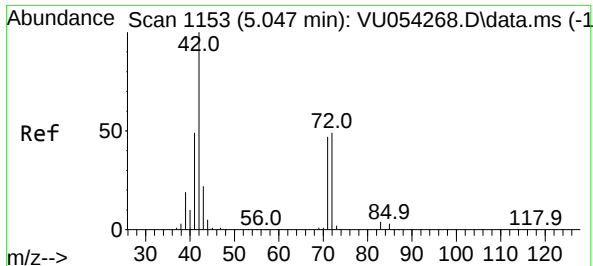
Tgt Ion:	84	Resp:	19881
Ion	Ratio	Lower	Upper
84	100		
49	123.4	86.6	129.8
51	39.8	26.6	40.0
86	62.2	50.6	75.8



#25
2-Butanone
Concen: 18.737 ug/l
RT: 4.800 min Scan# 1076
Delta R.T. 0.100 min
Lab File: VU054348.D
Acq: 31 May 2023 19:23

Tgt Ion:	43	Resp:	46105
Ion	Ratio	Lower	Upper
43	100		
72	0.0	23.8	35.6





#29

Tetrahydrofuran

Concen: 0.255 ug/l

RT: 5.060 min Scan# 1157

Delta R.T. 0.013 min

Lab File: VU054348.D

Acq: 31 May 2023 19:23

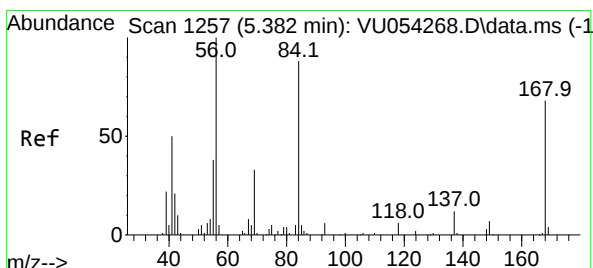
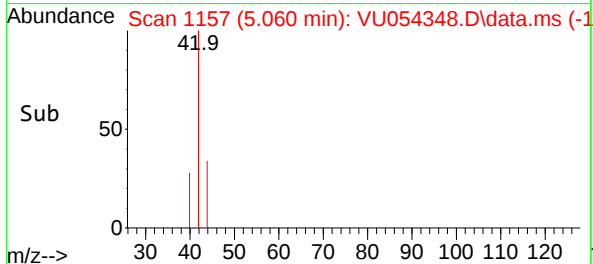
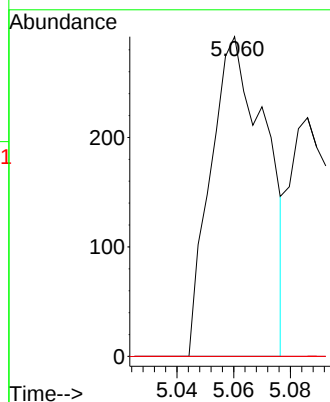
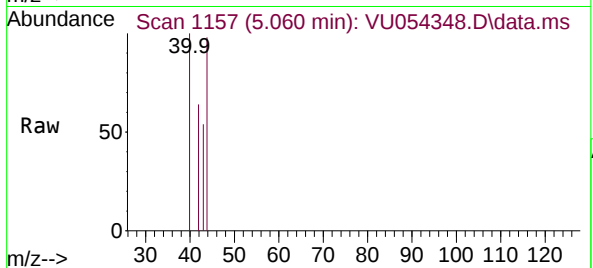
Instrument :

MSVOA_U

ClientSampleId :

PB153123ZHE#07

Tgt Ion:	42	Resp:	395
Ion	Ratio	Lower	Upper
42	100		
72	0.0	42.6	63.8#
71	0.0	40.3	60.5#



#31

Cyclohexane

Concen: 1.053 ug/l

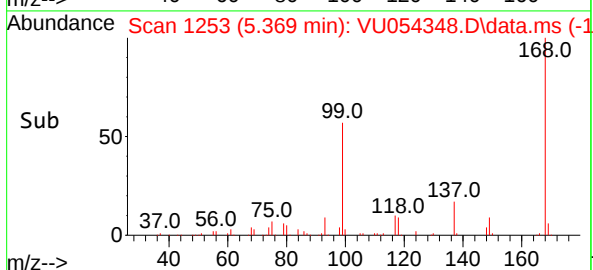
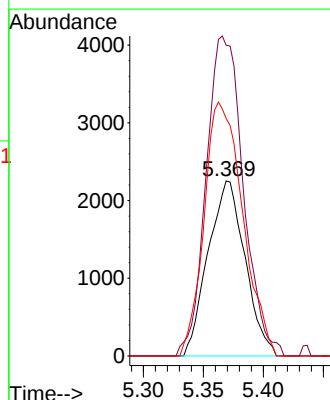
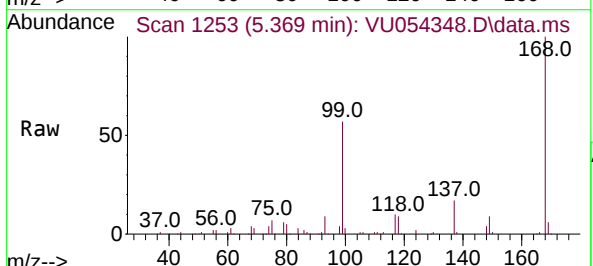
RT: 5.369 min Scan# 1253

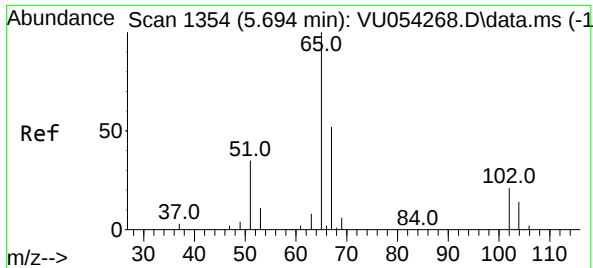
Delta R.T. -0.013 min

Lab File: VU054348.D

Acq: 31 May 2023 19:23

Tgt Ion:	56	Resp:	4823
Ion	Ratio	Lower	Upper
56	100		
69	172.1	27.8	41.8#
84	135.7	74.2	111.4#

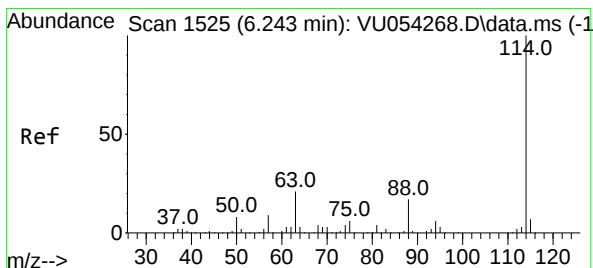
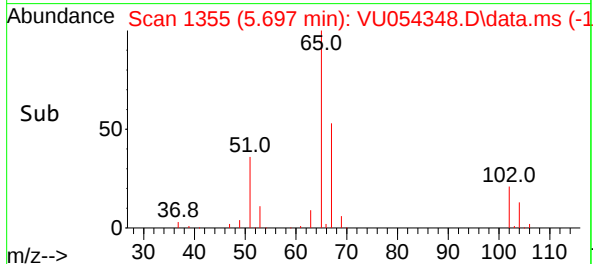
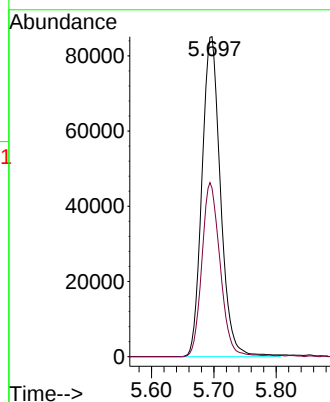
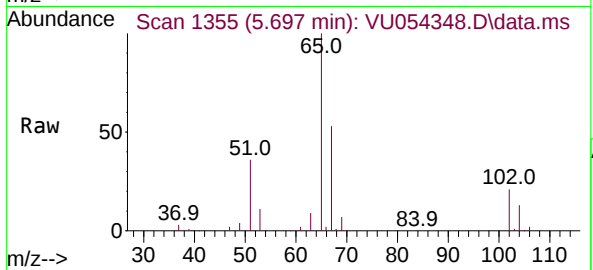




#33
1,2-Dichloroethane-d4
Concen: 54.318 ug/l
RT: 5.697 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU054348.D
Acq: 31 May 2023 19:23

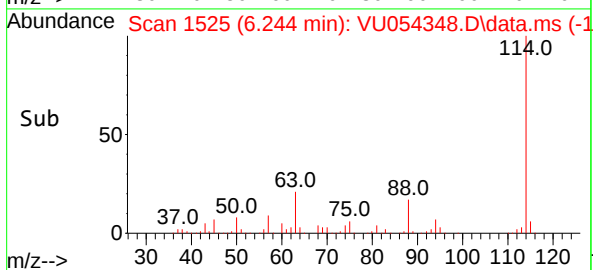
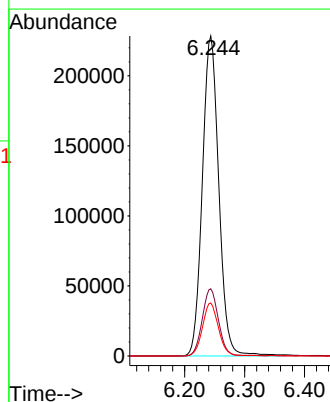
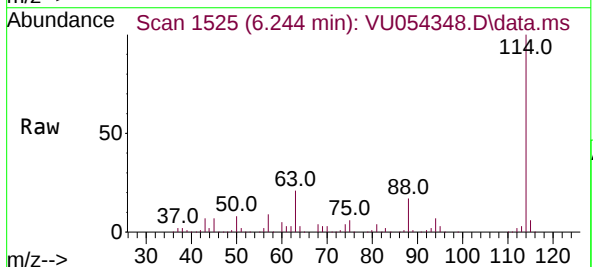
Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#07

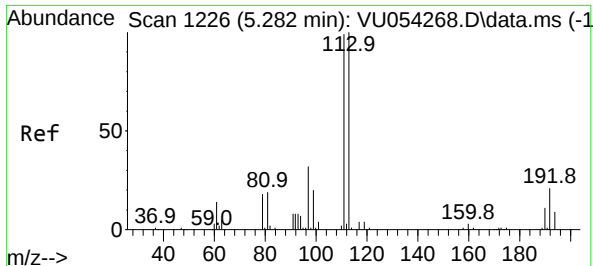
Tgt Ion: 65 Resp: 176114
Ion Ratio Lower Upper
65 100
67 53.4 0.0 108.0



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.244 min Scan# 1525
Delta R.T. 0.001 min
Lab File: VU054348.D
Acq: 31 May 2023 19:23

Tgt Ion:114 Resp: 436639
Ion Ratio Lower Upper
114 100
63 21.0 0.0 37.8
88 16.6 0.0 29.2

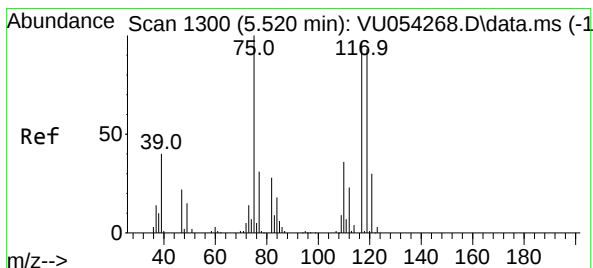
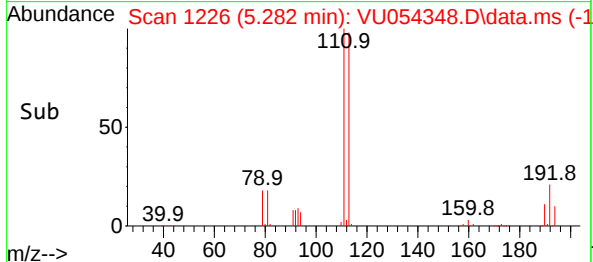
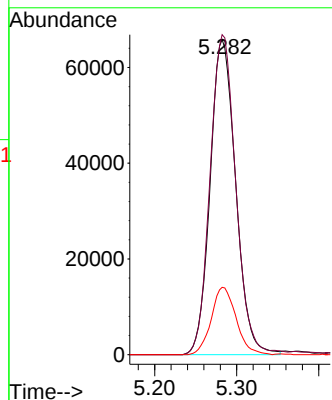
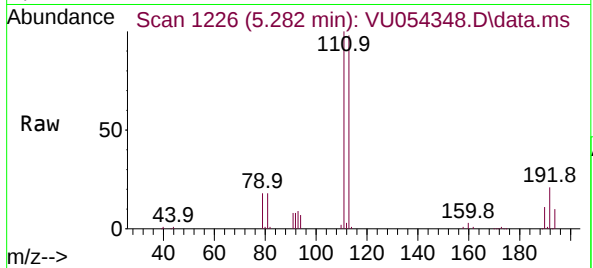




#35
Dibromofluoromethane
Concen: 50.678 ug/l
RT: 5.282 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU054348.D
Acq: 31 May 2023 19:23

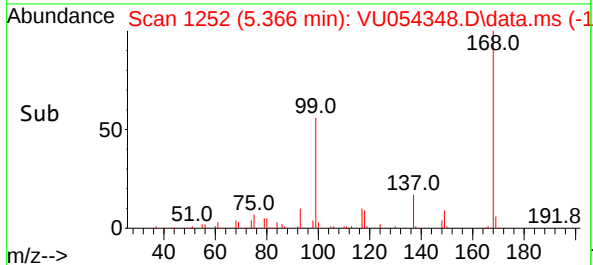
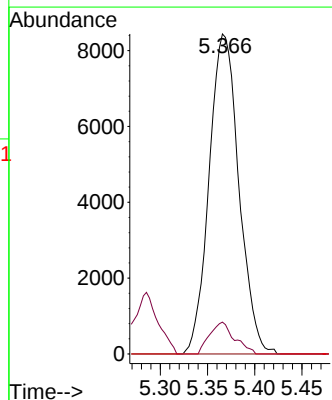
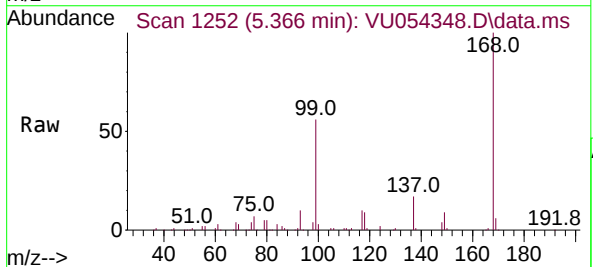
Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#07

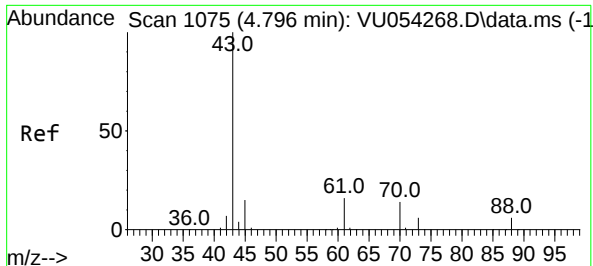
Tgt Ion:113 Resp: 142498
Ion Ratio Lower Upper
113 100
111 102.3 82.1 123.1
192 20.8 18.0 27.0



#36
1,1-Dichloropropene
Concen: 4.189 ug/l
RT: 5.366 min Scan# 1252
Delta R.T. -0.154 min
Lab File: VU054348.D
Acq: 31 May 2023 19:23

Tgt Ion: 75 Resp: 18502
Ion Ratio Lower Upper
75 100
110 8.3 18.4 55.2#
77 0.0 25.1 37.7#





#37

Ethyl Acetate

Concen: 8.566 ug/l

RT: 4.800 min Scan# 1

Delta R.T. 0.004 min

Lab File: VU054348.D

Acq: 31 May 2023 19:23

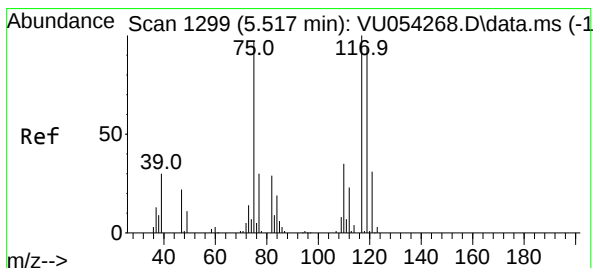
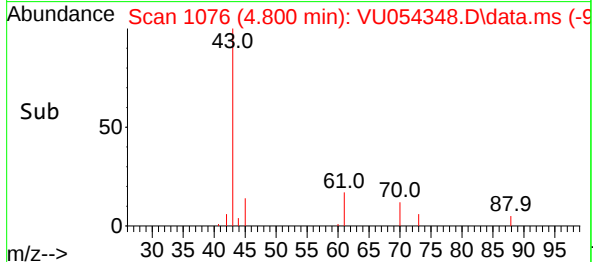
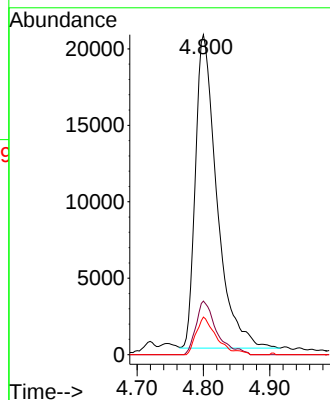
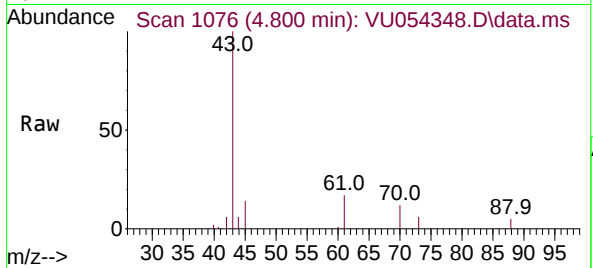
Instrument :

MSVOA_U

ClientSampleId :

PB153123ZHE#07

Tgt Ion: 43	Resp: 46105
Ion Ratio	Lower Upper
43 100	
61 16.3	9.5 14.3#
70 10.8	7.5 11.3



#38

Carbon Tetrachloride

Concen: 5.295 ug/l

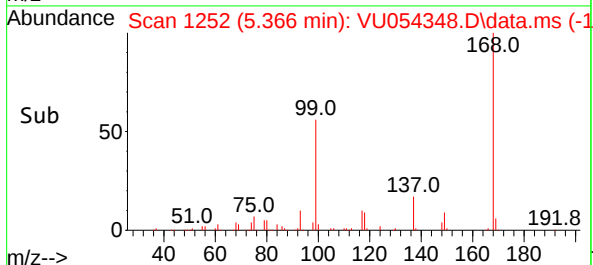
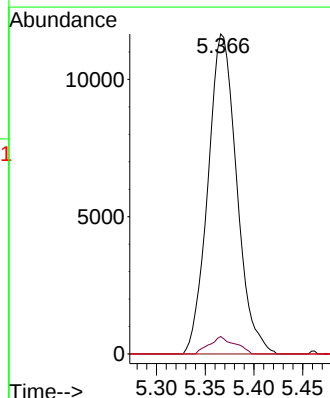
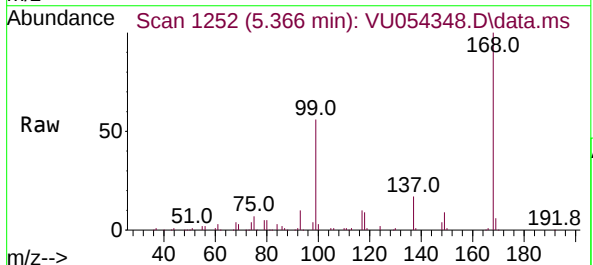
RT: 5.366 min Scan# 1252

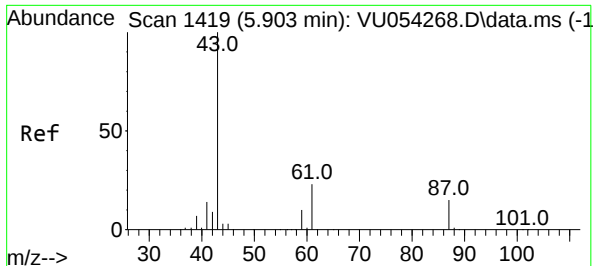
Delta R.T. -0.151 min

Lab File: VU054348.D

Acq: 31 May 2023 19:23

Tgt Ion: 117	Resp: 23935
Ion Ratio	Lower Upper
117 100	
119 5.4	76.8 115.2#
121 0.0	24.7 37.1#





#43

Isopropyl Acetate

Concen: 23.651 ug/l

RT: 5.906 min Scan# 1419

Delta R.T. 0.003 min

Lab File: VU054348.D

Acq: 31 May 2023 19:23

Instrument :

MSVOA_U

ClientSampleId :

PB153123ZHE#07

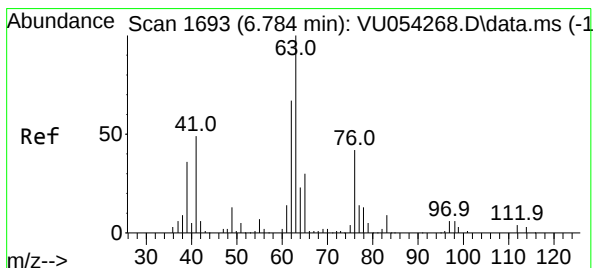
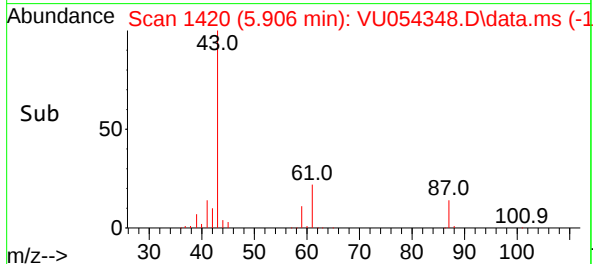
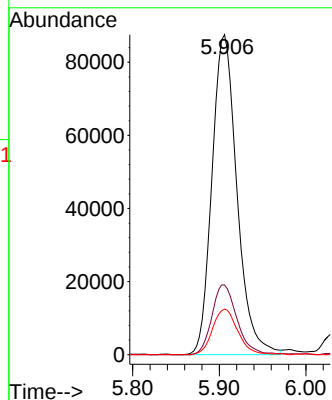
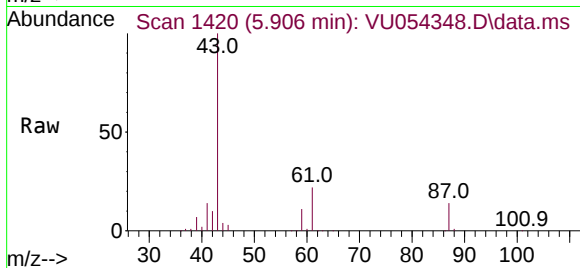
Tgt Ion: 43 Resp: 175590

Ion Ratio Lower Upper

43 100

61 22.2 17.4 26.0

87 14.3 12.6 18.8



#45

1,2-Dichloropropane

Concen: 0.700 ug/l

RT: 7.031 min Scan# 1770

Delta R.T. 0.247 min

Lab File: VU054348.D

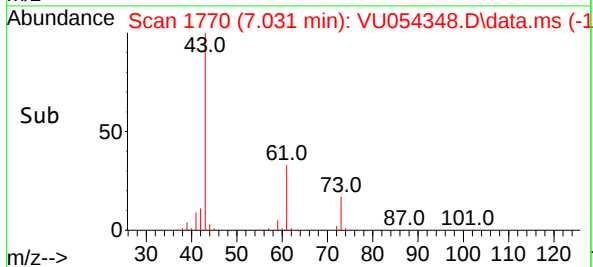
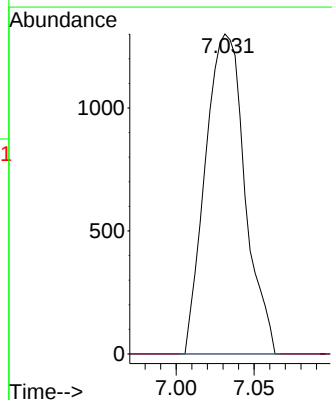
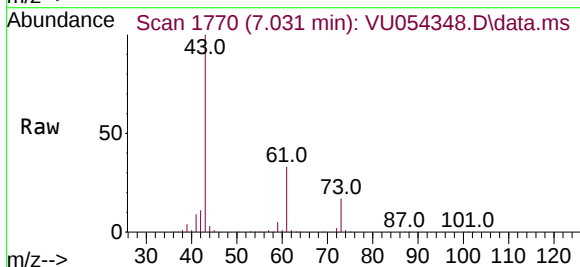
Acq: 31 May 2023 19:23

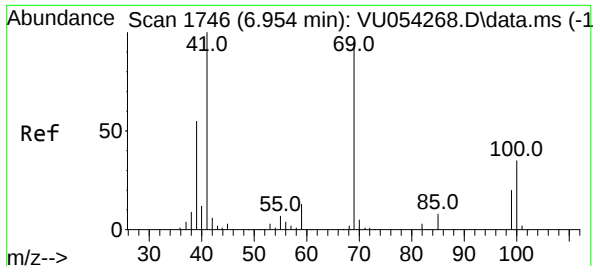
Tgt Ion: 63 Resp: 2300

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.4#

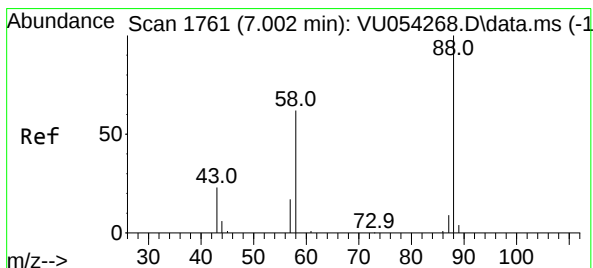
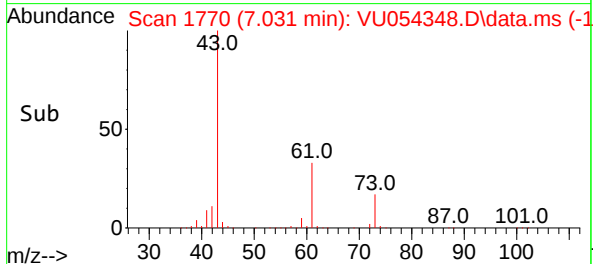
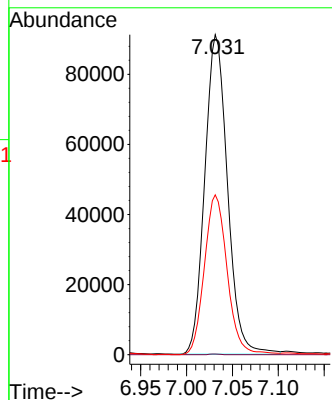
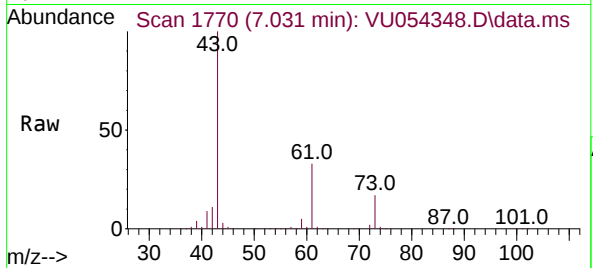




#48
Methyl methacrylate
Concen: 47.802 ug/l
RT: 7.031 min Scan# 11
Delta R.T. 0.077 min
Lab File: VU054348.D
Acq: 31 May 2023 19:23

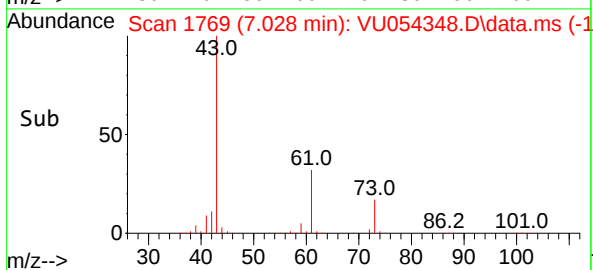
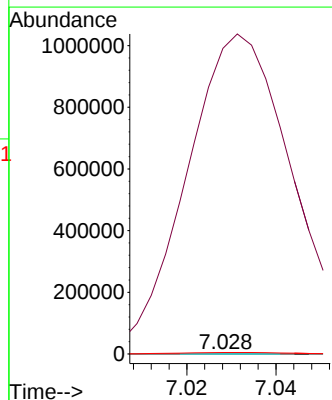
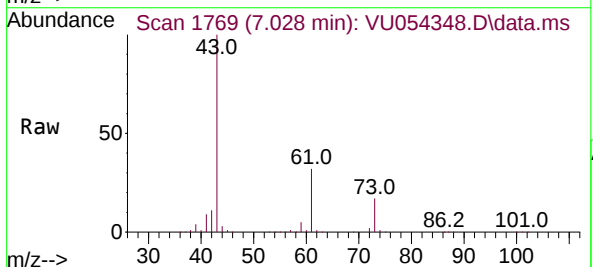
Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#07

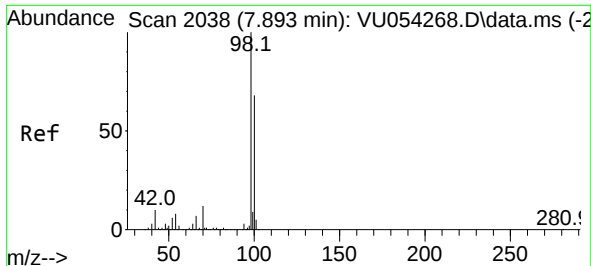
Tgt Ion: 41 Resp: 157386
Ion Ratio Lower Upper
41 100
69 0.1 79.8 119.6#
39 50.2 47.9 71.9



#49
1,4-Dioxane
Concen: 0.936 ug/l
RT: 7.028 min Scan# 1769
Delta R.T. 0.026 min
Lab File: VU054348.D
Acq: 31 May 2023 19:23

Tgt Ion: 88 Resp: 89
Ion Ratio Lower Upper
88 100
43 2005109.0 0.0 0.0#
58 9969.7 15.4 23.0#

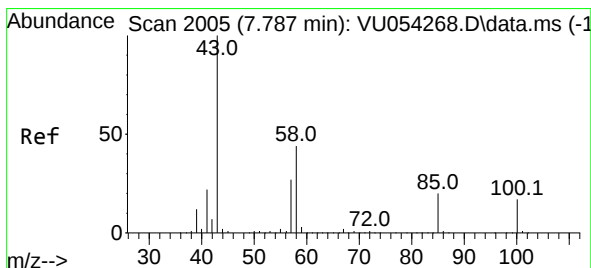
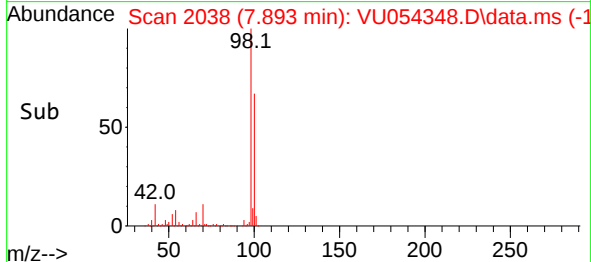
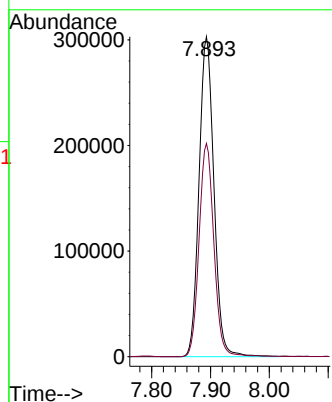
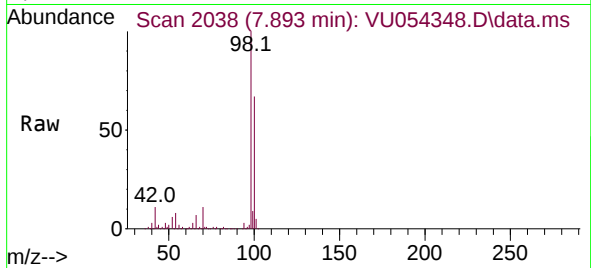




#50
Toluene-d8
Concen: 49.714 ug/l
RT: 7.893 min Scan# 2038
Delta R.T. 0.000 min
Lab File: VU054348.D
Acq: 31 May 2023 19:23

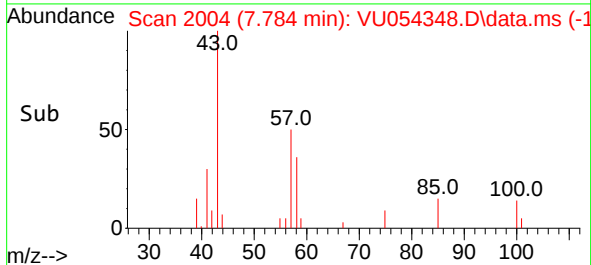
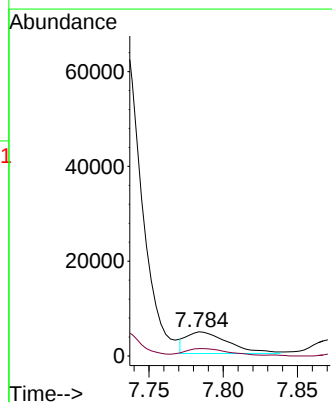
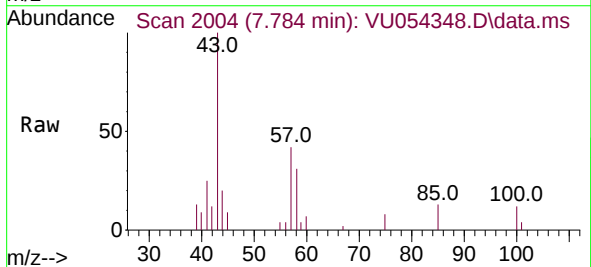
Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#07

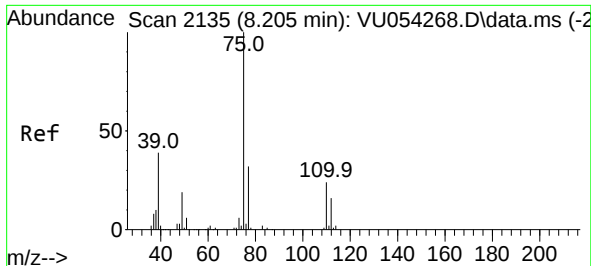
Tgt Ion: 98 Resp: 531714
Ion Ratio Lower Upper
98 100
100 66.5 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 1.822 ug/l
RT: 7.784 min Scan# 2004
Delta R.T. -0.003 min
Lab File: VU054348.D
Acq: 31 May 2023 19:23

Tgt Ion: 43 Resp: 9027
Ion Ratio Lower Upper
43 100
58 30.2 34.7 52.1#

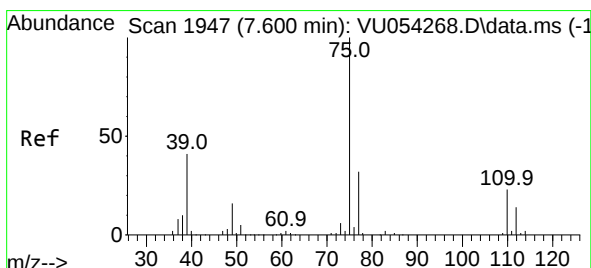
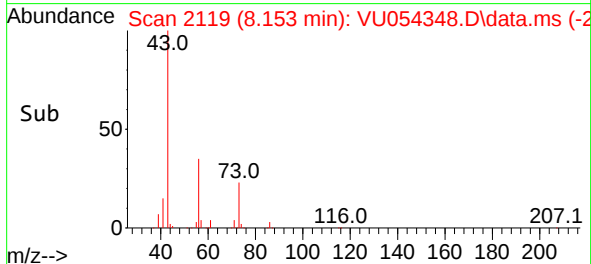
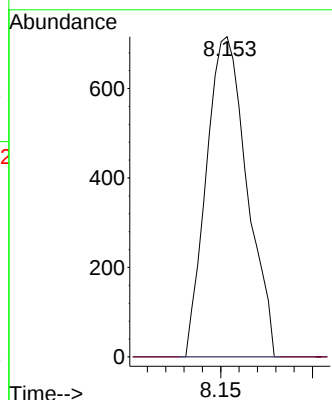
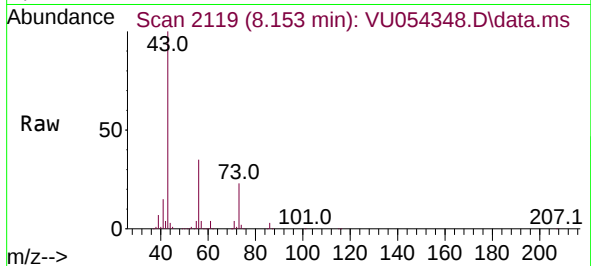




#53
 t-1,3-Dichloropropene
 Concen: 0.213 ug/l
 RT: 8.153 min Scan# 2135
 Delta R.T. -0.052 min
 Lab File: VU054348.D
 Acq: 31 May 2023 19:23

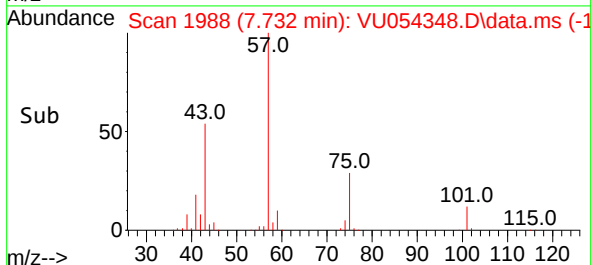
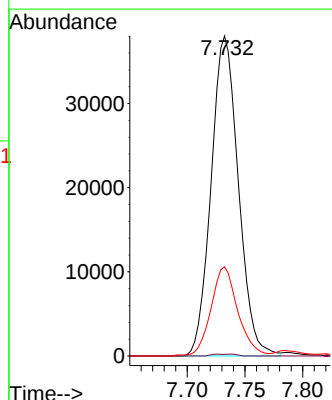
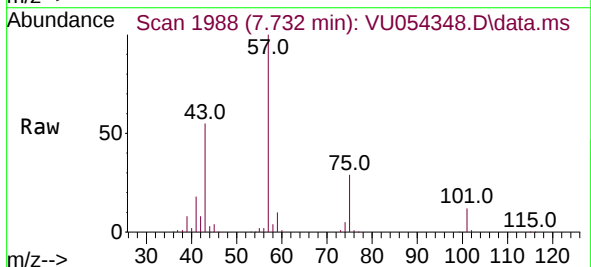
Instrument :
 MSVOA_U
 ClientSampleId :
 PB153123ZHE#07

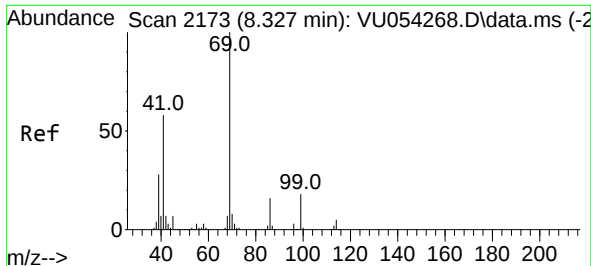
Tgt Ion: 75 Resp: 1103
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.0#



#54
 cis-1,3-Dichloropropene
 Concen: 11.566 ug/l
 RT: 7.732 min Scan# 1988
 Delta R.T. 0.132 min
 Lab File: VU054348.D
 Acq: 31 May 2023 19:23

Tgt Ion: 75 Resp: 62472
 Ion Ratio Lower Upper
 75 100
 77 0.5 25.7 38.5#
 39 27.6 33.0 49.6#

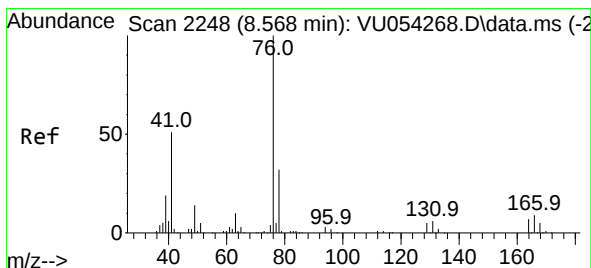
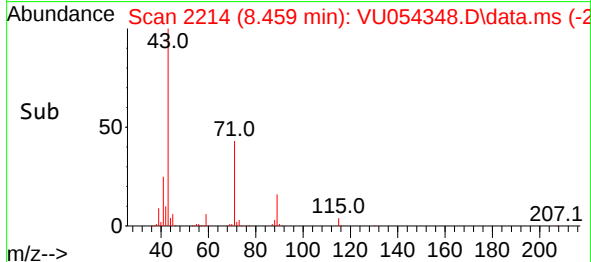
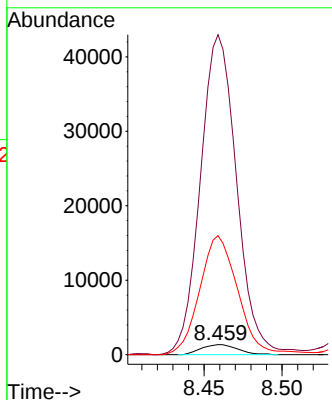
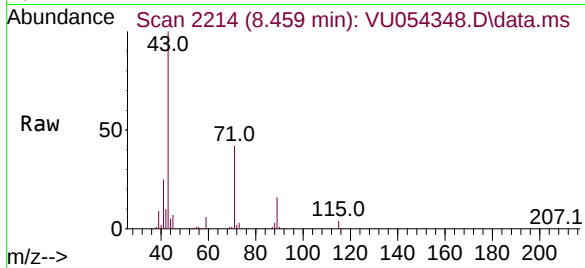




#56
Ethyl methacrylate
Concen: 0.445 ug/l
RT: 8.459 min Scan# 2173
Delta R.T. 0.132 min
Lab File: VU054348.D
Acq: 31 May 2023 19:23

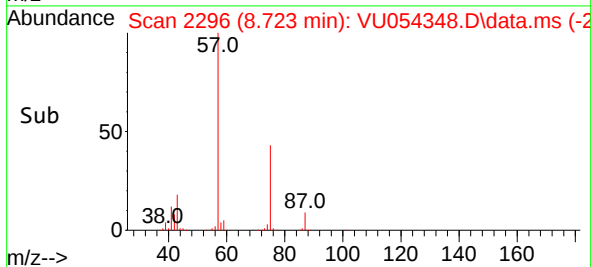
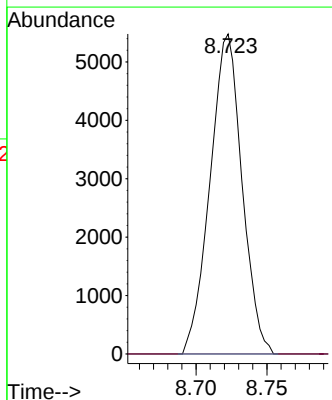
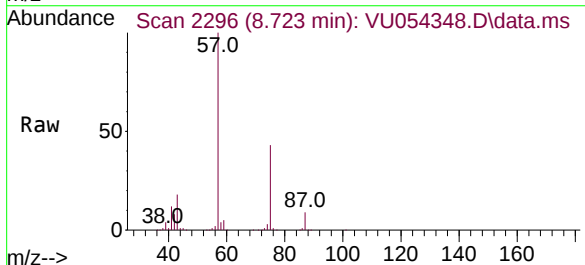
Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#07

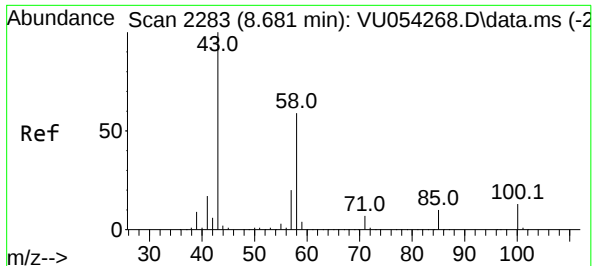
Tgt Ion: 69 Resp: 2204
Ion Ratio Lower Upper
69 100
41 3163.4 45.4 68.0#
39 1238.4 25.7 38.5#



#57
1,3-Dichloropropane
Concen: 1.501 ug/l
RT: 8.723 min Scan# 2296
Delta R.T. 0.155 min
Lab File: VU054348.D
Acq: 31 May 2023 19:23

Tgt Ion: 76 Resp: 8606
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#





#59

2-Hexanone

Concen: 27.387 ug/l

RT: 8.719 min Scan# 21

Delta R.T. 0.038 min

Lab File: VU054348.D

Acq: 31 May 2023 19:23

Instrument :

MSVOA_U

ClientSampleId :

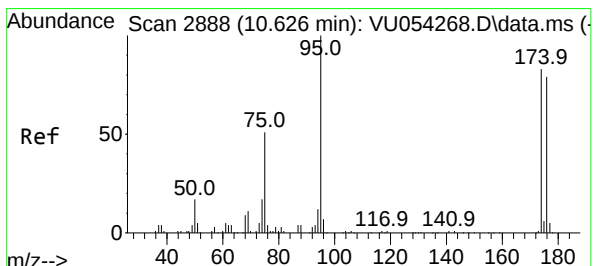
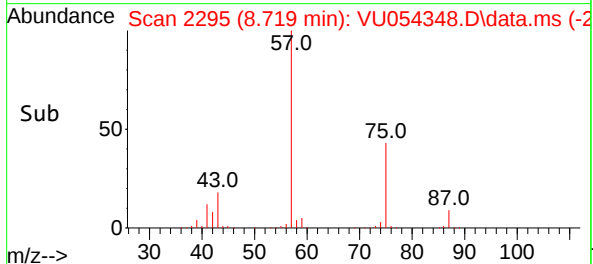
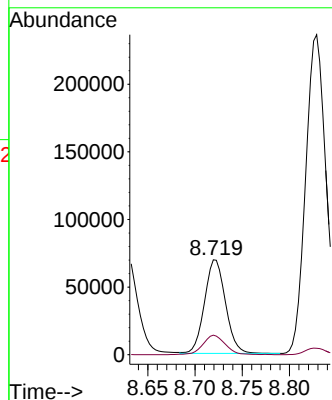
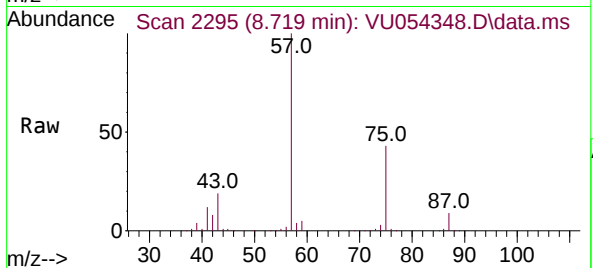
PB153123ZHE#07

Tgt Ion: 43 Resp: 107187

Ion Ratio Lower Upper

43 100

58 22.3 30.3 90.8#



#62

4-Bromofluorobenzene

Concen: 43.312 ug/l

RT: 10.626 min Scan# 2888

Delta R.T. 0.000 min

Lab File: VU054348.D

Acq: 31 May 2023 19:23

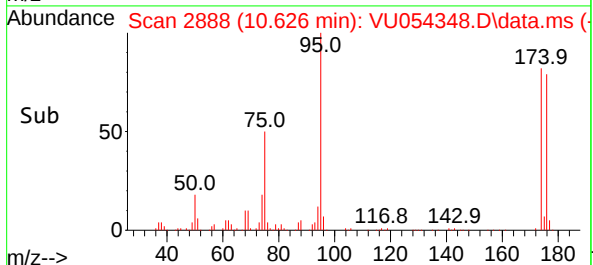
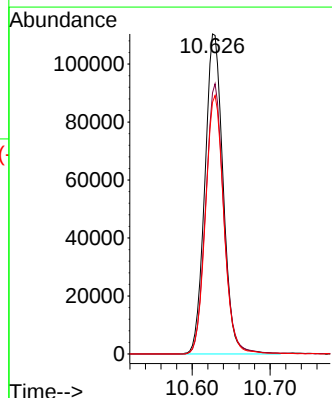
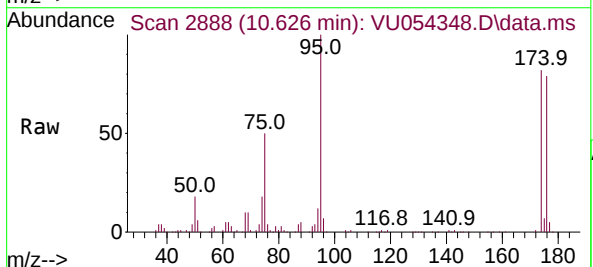
Tgt Ion: 95 Resp: 179617

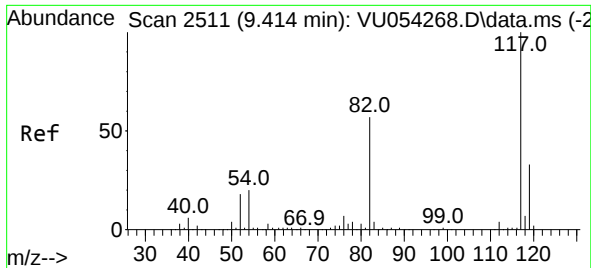
Ion Ratio Lower Upper

95 100

174 84.0 0.0 182.0

176 80.9 0.0 177.8

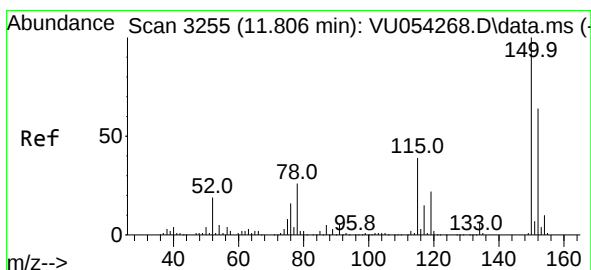
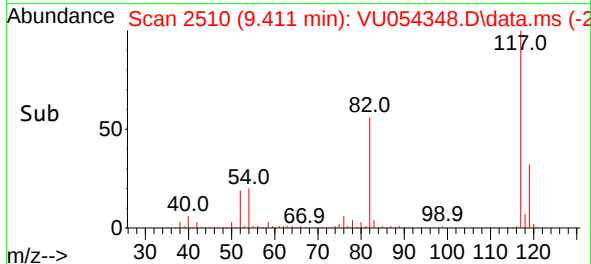
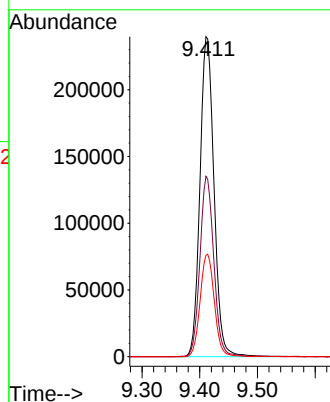
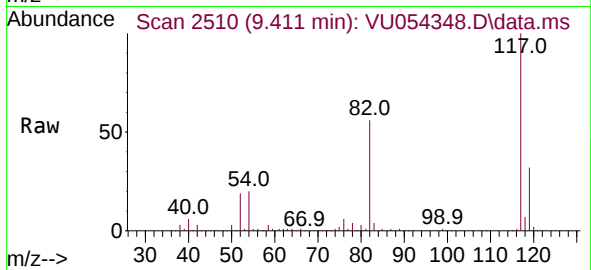




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.411 min Scan# 2511
Delta R.T. -0.003 min
Lab File: VU054348.D
Acq: 31 May 2023 19:23

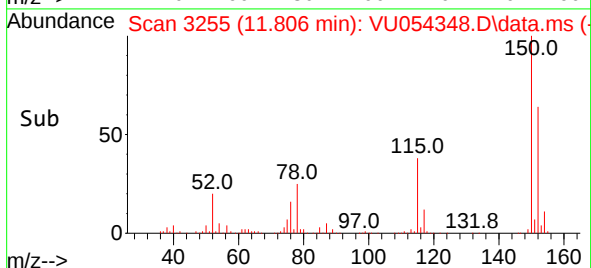
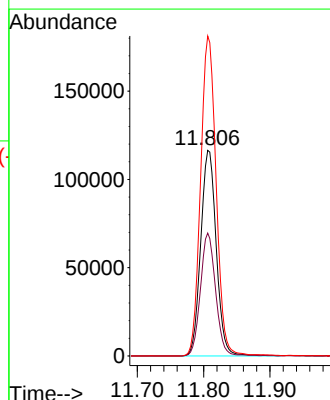
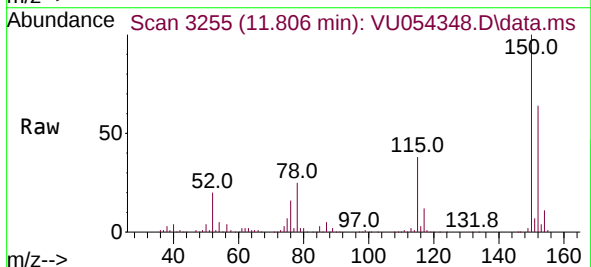
Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#07

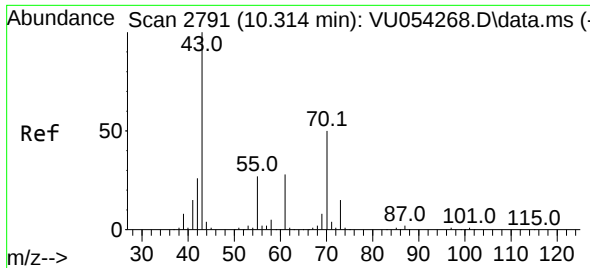
Tgt Ion:117 Resp: 404180
Ion Ratio Lower Upper
117 100
82 56.3 41.7 62.5
119 31.7 25.7 38.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.806 min Scan# 3255
Delta R.T. 0.000 min
Lab File: VU054348.D
Acq: 31 May 2023 19:23

Tgt Ion:152 Resp: 189492
Ion Ratio Lower Upper
152 100
115 58.3 37.0 110.9
150 156.0 0.0 342.2

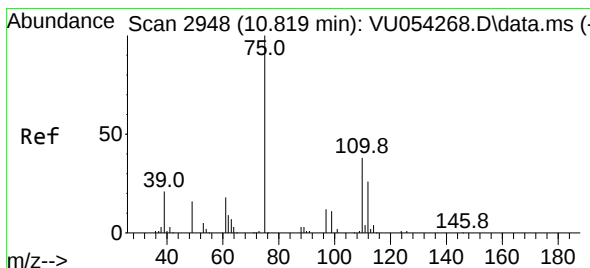
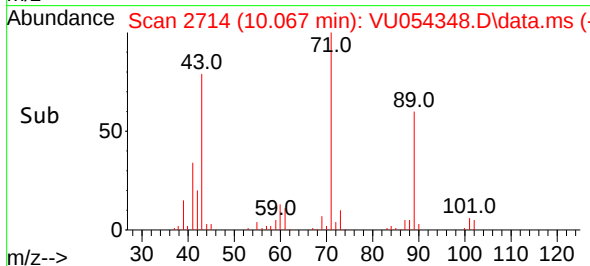
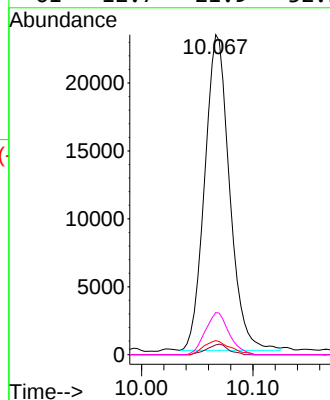
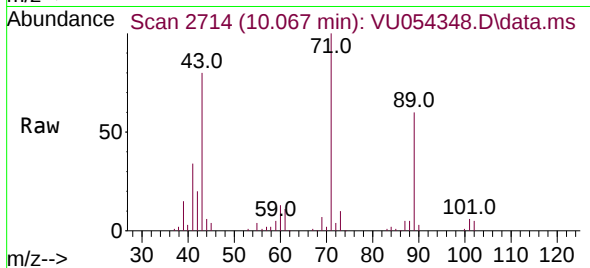




#74
N-amy1 acetate
Concen: 7.223 ug/l
RT: 10.067 min Scan# 21
Delta R.T. -0.247 min
Lab File: VU054348.D
Acq: 31 May 2023 19:23

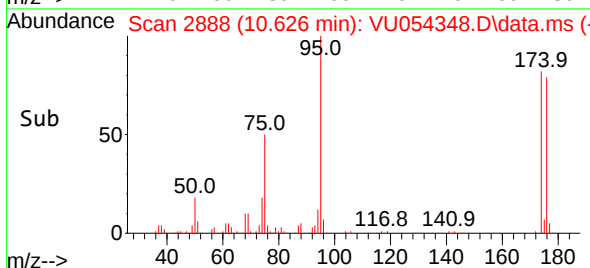
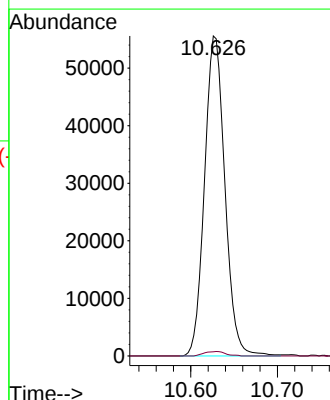
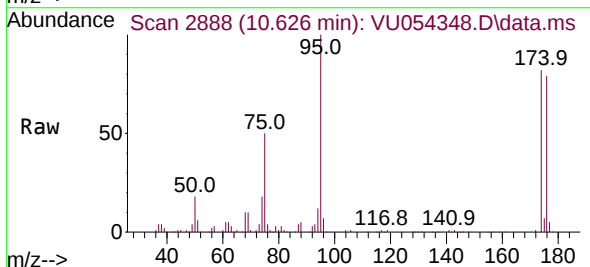
Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#07

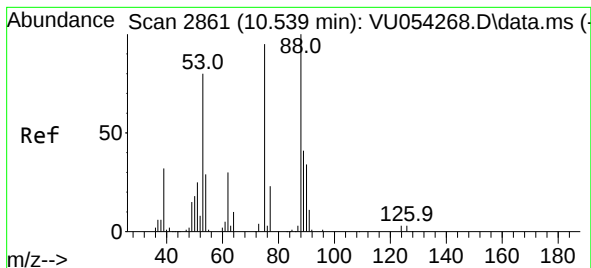
Tgt Ion:	43	Resp:	35991
Ion	Ratio	Lower	Upper
43	100		
70	2.9	38.7	58.1#
55	4.7	21.8	32.8#
61	12.7	21.9	32.9#



#76
1,2,3-Trichloropropane
Concen: 16.426 ug/l
RT: 10.626 min Scan# 2888
Delta R.T. -0.193 min
Lab File: VU054348.D
Acq: 31 May 2023 19:23

Tgt Ion:	75	Resp:	90843
Ion	Ratio	Lower	Upper
75	100		
77	1.5	15.8	47.3#

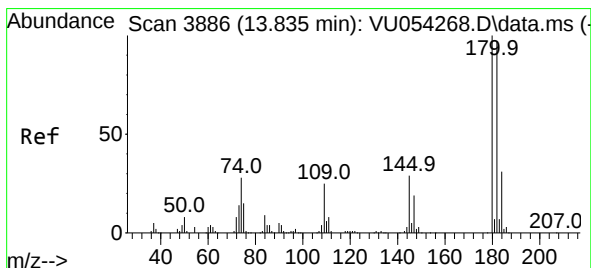
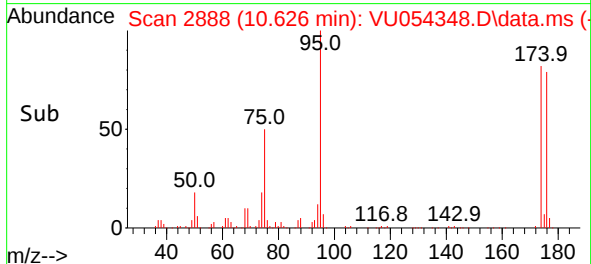
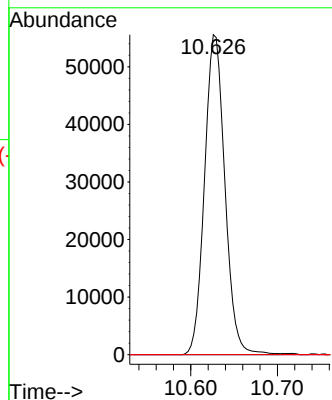
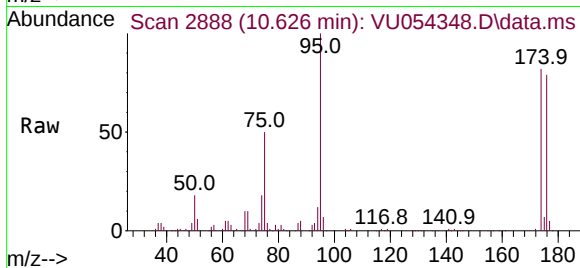




#81
trans-1,4-Dichloro-2-butene
Concen: 62.549 ug/l
RT: 10.626 min Scan# 21
Delta R.T. 0.087 min
Lab File: VU054348.D
Acq: 31 May 2023 19:23

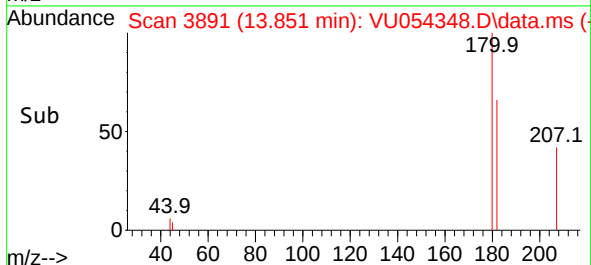
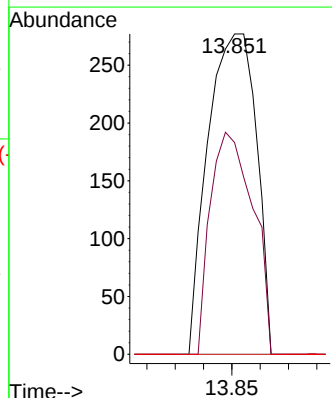
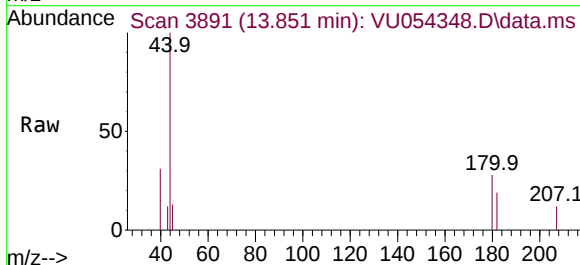
Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#07

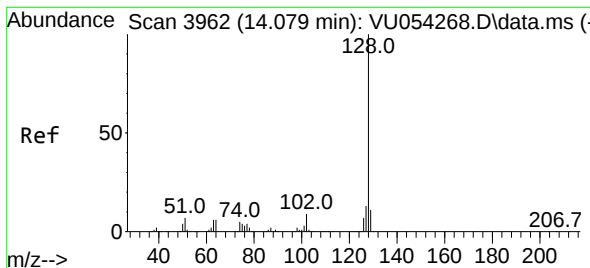
Tgt Ion: 75 Resp: 90843
Ion Ratio Lower Upper
75 100
53 0.0 69.2 103.8#
89 0.0 37.0 55.6#



#93
1,2,4-Trichlorobenzene
Concen: 1.716 ug/l
RT: 13.851 min Scan# 3891
Delta R.T. 0.016 min
Lab File: VU054348.D
Acq: 31 May 2023 19:23

Tgt Ion:180 Resp: 329
Ion Ratio Lower Upper
180 100
182 61.1 47.9 143.6
145 0.0 14.0 41.9#





#95

Naphthalene

Concen: 2.052 ug/l

RT: 14.102 min Scan# 3969

Delta R.T. 0.023 min

Lab File: VU054348.D

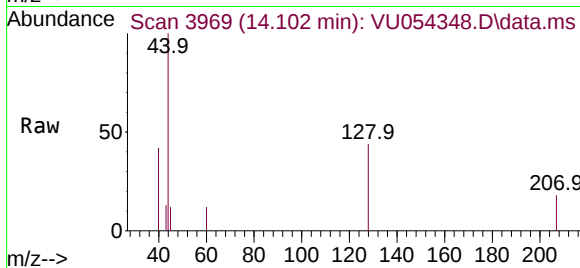
Acq: 31 May 2023 19:23

Instrument :

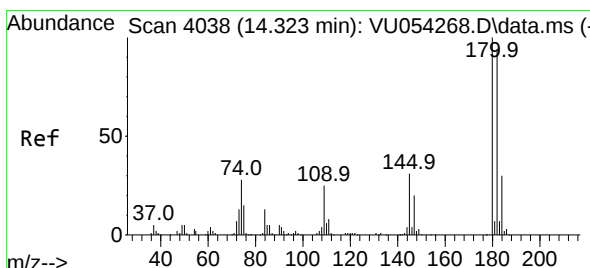
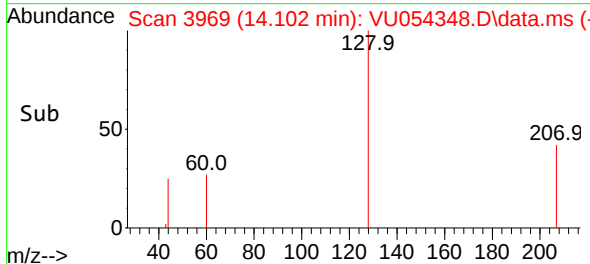
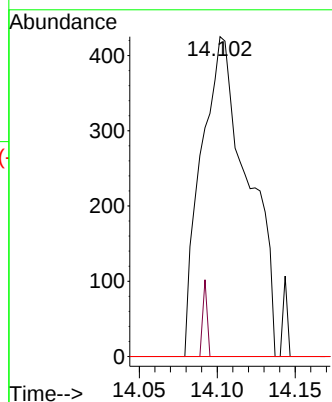
MSVOA_U

ClientSampleId :

PB153123ZHE#07



Tgt Ion:	128	Resp:	885
Ion Ratio	Lower	Upper	
128	100		
127	2.3	10.3	15.5#
129	0.0	8.6	13.0#



#96

1,2,3-Trichlorobenzene

Concen: 1.280 ug/l

RT: 14.327 min Scan# 4039

Delta R.T. 0.004 min

Lab File: VU054348.D

Acq: 31 May 2023 19:23

Tgt Ion:	180	Resp:	114
Ion Ratio	Lower	Upper	
180	100		
182	135.1	48.4	145.0
145	0.0	14.8	44.4#

