

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU053123\
 Data File : VU054351.D
 Acq On : 31 May 2023 20:34
 Operator : JC/MD
 Sample : PB153123ZHE#10
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PB153123ZHE#10

Quant Time: Jun 01 05:26:53 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

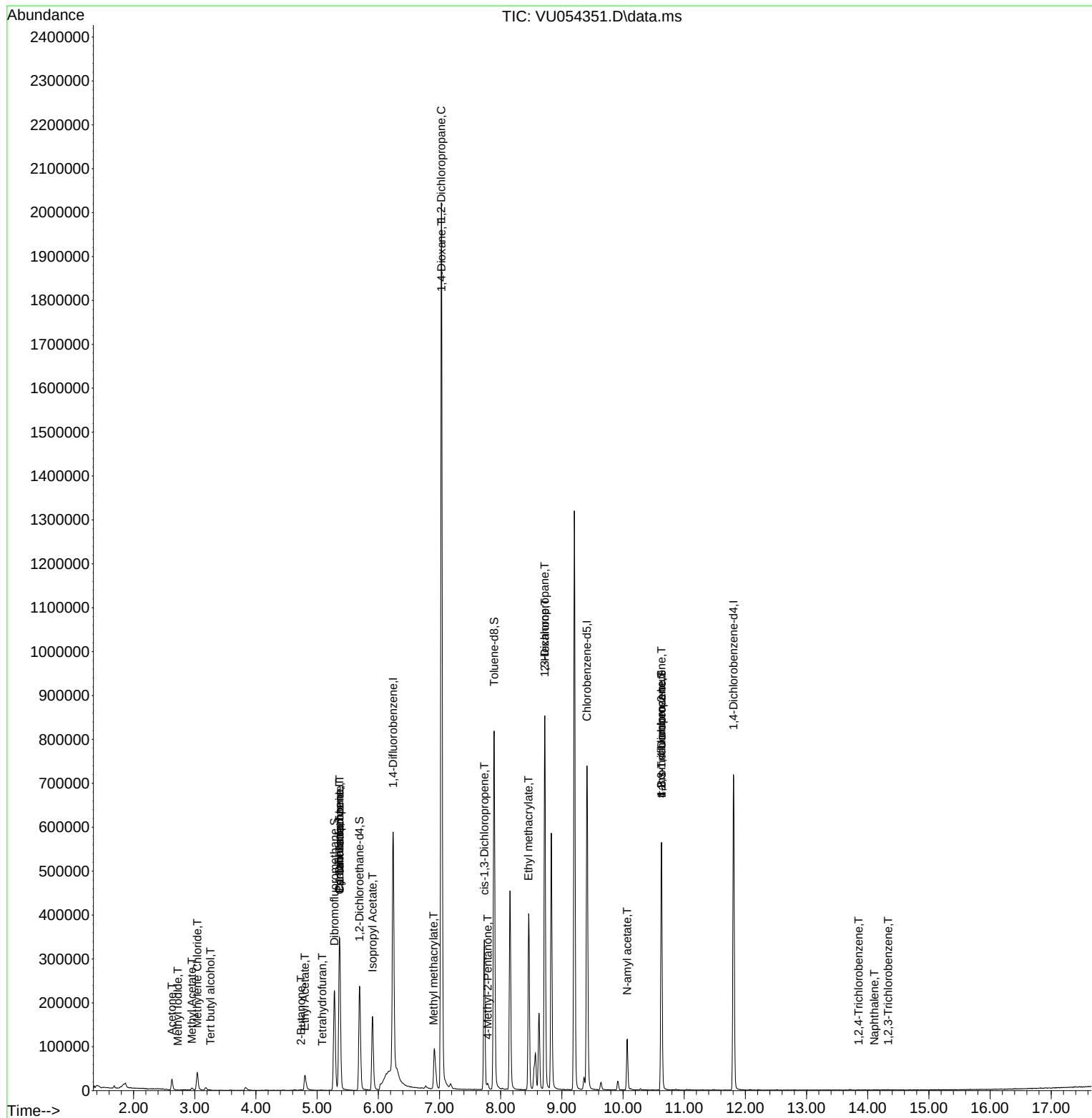
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.366	168	253292	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.243	114	449413	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.411	117	421316	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.806	152	194729	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.694	65	177468	53.448	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 106.900%	
35) Dibromofluoromethane	5.282	113	145488	50.270	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 100.540%	
50) Toluene-d8	7.893	98	555461	50.458	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 100.920%	
62) 4-Bromofluorobenzene	10.629	95	186654	43.729	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 87.460%	
Target Compounds						
					Qvalue	
10) Methyl Iodide	2.723	142	92	2.359	ug/l #	43
11) Tert butyl alcohol	3.256	59	259	0.289	ug/l #	37
16) Acetone	2.626	43	28529	14.989	ug/l	96
18) Methyl Acetate	2.951	43	7865	1.132	ug/l	93
20) Methylene Chloride	3.041	84	21329	6.212	ug/l	93
25) 2-Butanone	4.739	43	1968	0.781	ug/l	93
29) Tetrahydrofuran	5.083	42	420	0.265	ug/l #	26
31) Cyclohexane	5.366	56	4794	1.023	ug/l #	1
36) 1,1-Dichloropropene	5.366	75	19619	4.316	ug/l #	48
37) Ethyl Acetate	4.800	43	48307	8.720	ug/l #	92
38) Carbon Tetrachloride	5.369	117	23711	5.096	ug/l #	17
43) Isopropyl Acetate	5.906	43	180210	23.583	ug/l	98
45) 1,2-Dichloropropane	7.028	63	2621	0.775	ug/l #	43
48) Methyl methacrylate	6.903	41	6039	1.782	ug/l #	33
49) 1,4-Dioxane	7.034	88	228	2.331	ug/l #	1
51) 4-Methyl-2-Pentanone	7.790	43	8459	1.659	ug/l	89
54) cis-1,3-Dichloropropene	7.732	75	62814	11.299	ug/l #	62
56) Ethyl methacrylate	8.456	69	2308	0.453	ug/l #	1
57) 1,3-Dichloropropane	8.719	76	8685	1.472	ug/l #	42
59) 2-Hexanone	8.722	43	108965	27.050	ug/l #	50
74) N-amyl acetate	10.070	43	37192	7.263	ug/l #	48
76) 1,2,3-Trichloropropane	10.629	75	93343	16.424	ug/l #	46
81) trans-1,4-Dichloro-2-b...	10.629	75	93343	62.541	ug/l #	15
93) 1,2,4-Trichlorobenzene	13.851	180	199	1.686	ug/l #	59
95) Naphthalene	14.108	128	1002	2.058	ug/l #	72
96) 1,2,3-Trichlorobenzene	14.336	180	112	1.279	ug/l #	78

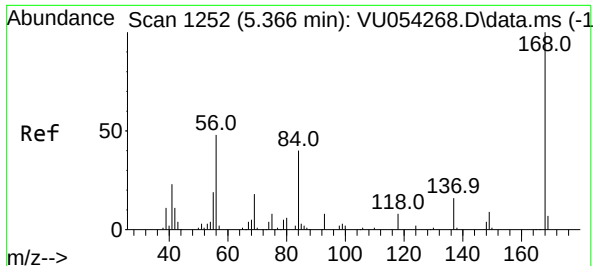
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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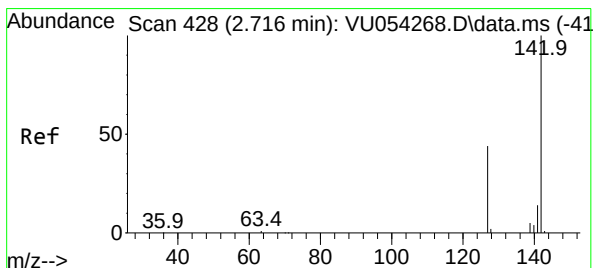
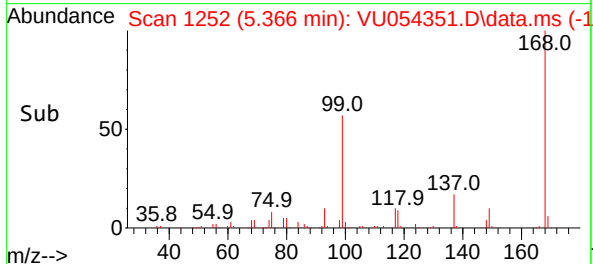
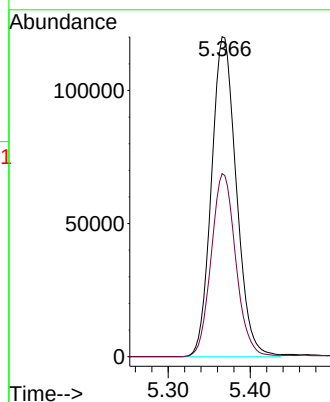
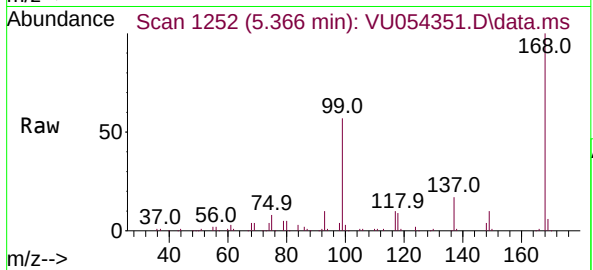




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.366 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU054351.D
Acq: 31 May 2023 20:34

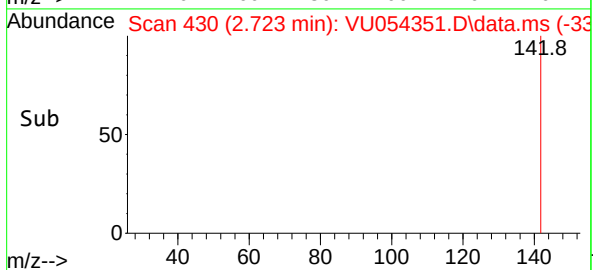
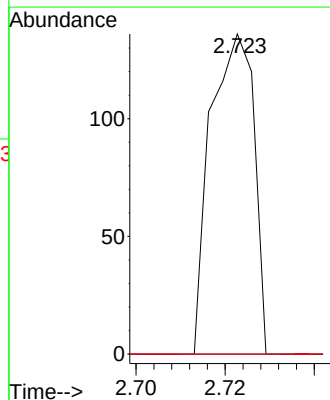
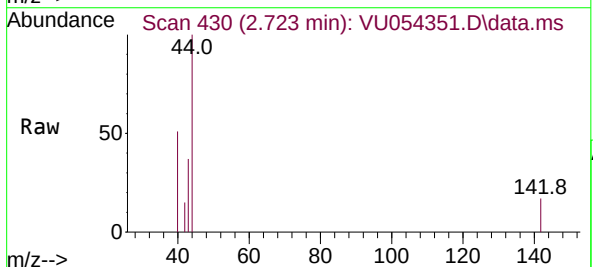
Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#10

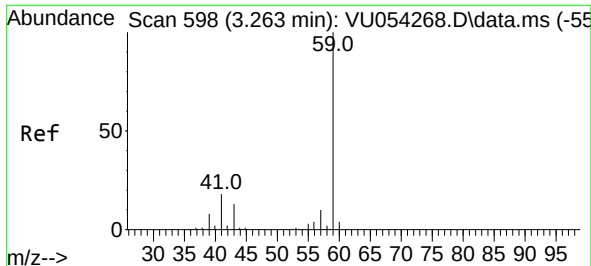
Tgt Ion:168 Resp: 253292
Ion Ratio Lower Upper
168 100
99 57.2 39.3 58.9



#10
Methyl Iodide
Concen: 2.359 ug/l
RT: 2.723 min Scan# 430
Delta R.T. 0.007 min
Lab File: VU054351.D
Acq: 31 May 2023 20:34

Tgt Ion:142 Resp: 92
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: 0.289 ug/l

RT: 3.256 min Scan# 59

Delta R.T. 0.013 min

Lab File: VU054351.D

Acq: 31 May 2023 20:34

Instrument :

MSVOA_U

ClientSampleId :

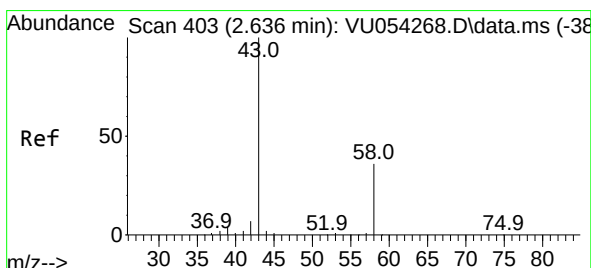
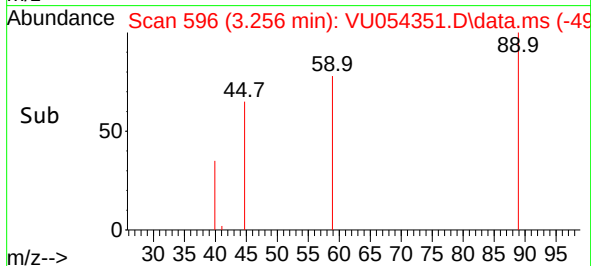
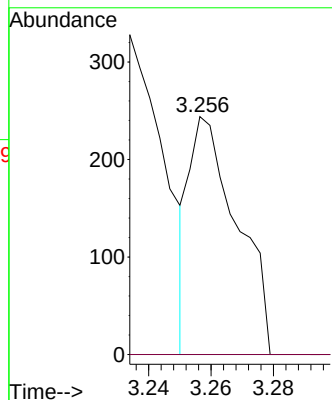
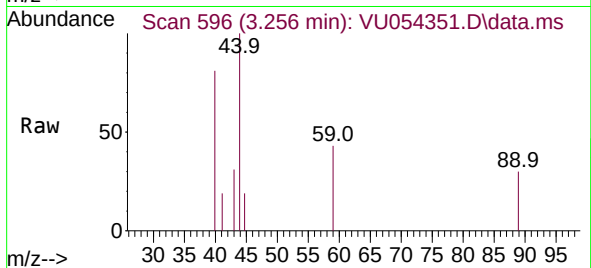
PB153123ZHE#10

Tgt Ion: 59 Resp: 259

Ion Ratio Lower Upper

59 100

57 0.0 30.6 45.8#



#16

Acetone

Concen: 14.989 ug/l

RT: 2.626 min Scan# 400

Delta R.T. -0.010 min

Lab File: VU054351.D

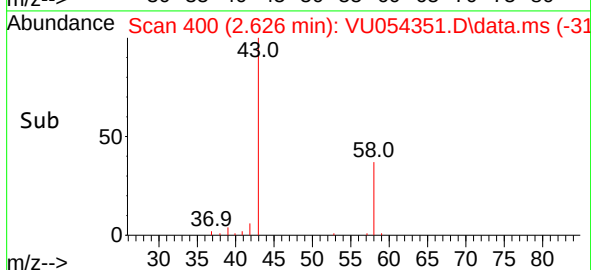
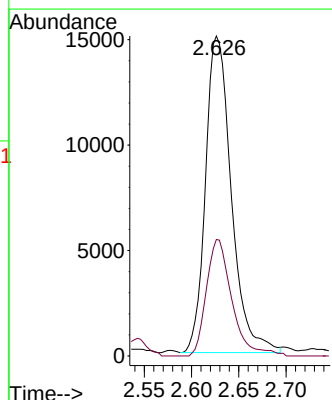
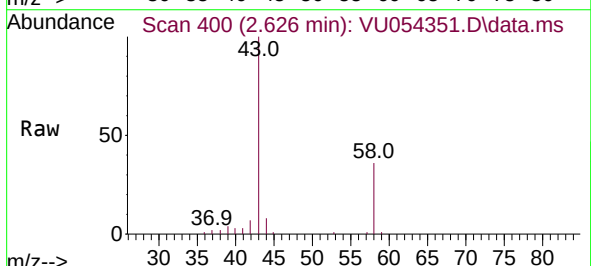
Acq: 31 May 2023 20:34

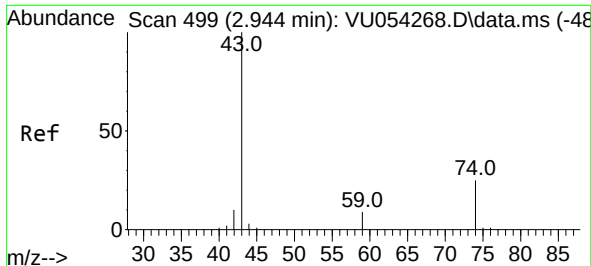
Tgt Ion: 43 Resp: 28529

Ion Ratio Lower Upper

43 100

58 36.8 27.5 41.3

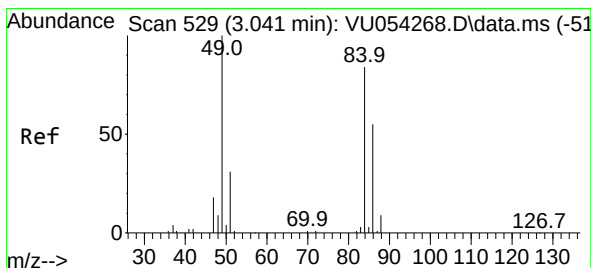
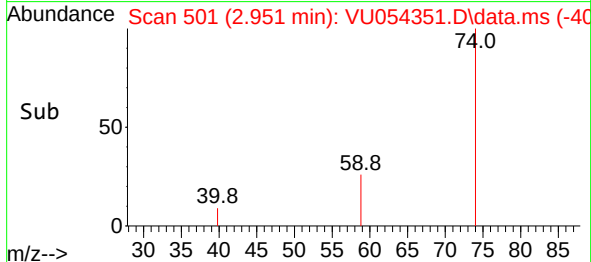
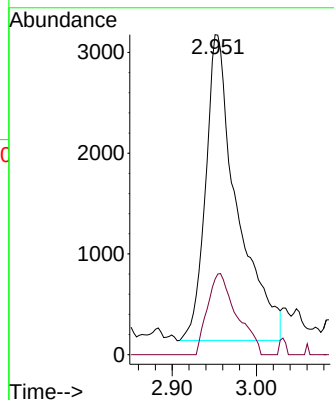
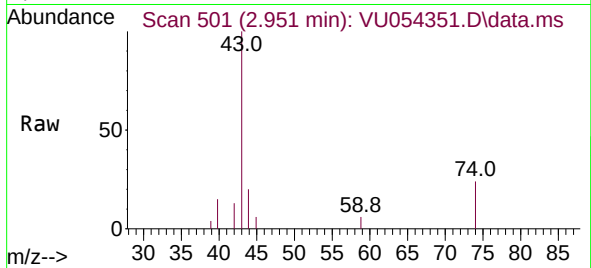




#18
Methyl Acetate
Concen: 1.132 ug/l
RT: 2.951 min Scan# 501
Delta R.T. 0.007 min
Lab File: VU054351.D
Acq: 31 May 2023 20:34

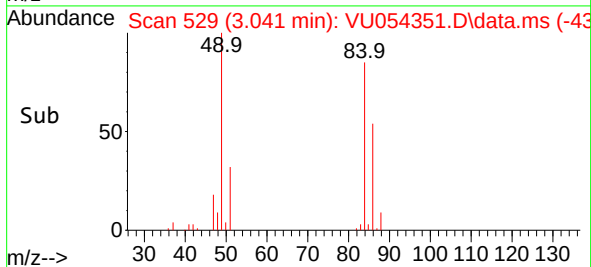
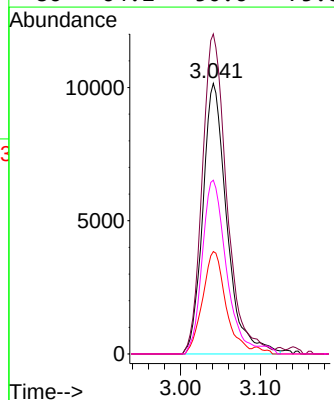
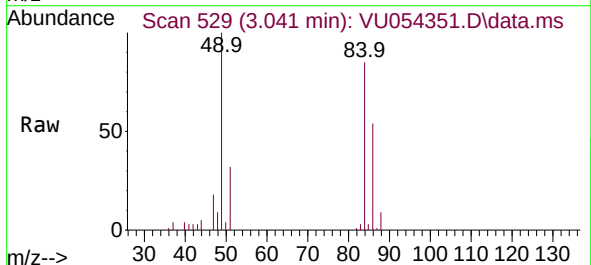
Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#10

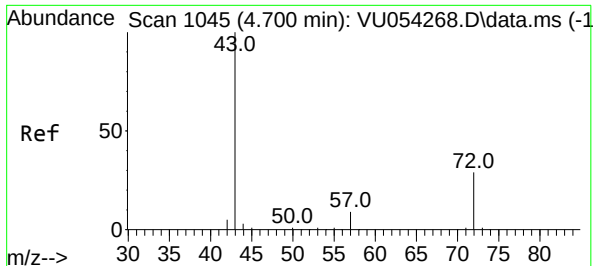
Tgt Ion: 43 Resp: 7865
Ion Ratio Lower Upper
43 100
74 24.6 22.5 33.7



#20
Methylene Chloride
Concen: 6.212 ug/l
RT: 3.041 min Scan# 529
Delta R.T. 0.000 min
Lab File: VU054351.D
Acq: 31 May 2023 20:34

Tgt Ion: 84 Resp: 21329
Ion Ratio Lower Upper
84 100
49 118.3 86.6 129.8
51 37.8 26.6 40.0
86 64.2 50.6 75.8





#25

2-Butanone

Concen: 0.781 ug/l

RT: 4.739 min Scan# 1105

Delta R.T. 0.039 min

Lab File: VU054351.D

Acq: 31 May 2023 20:34

Instrument :

MSVOA_U

ClientSampleId :

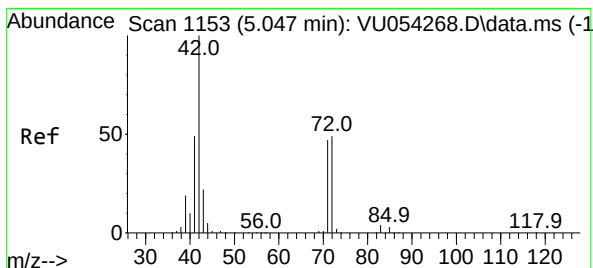
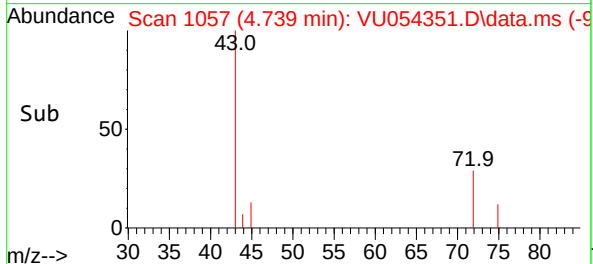
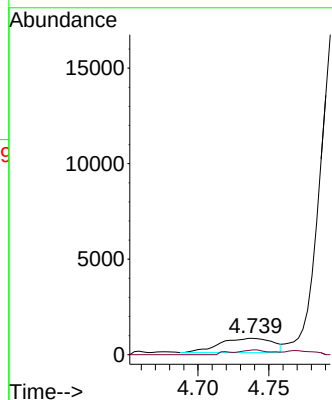
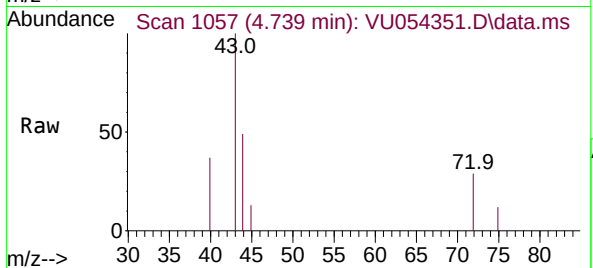
PB153123ZHE#10

Tgt Ion: 43 Resp: 1968

Ion Ratio Lower Upper

43 100

72 33.7 23.8 35.6



#29

Tetrahydrofuran

Concen: 0.265 ug/l

RT: 5.083 min Scan# 1164

Delta R.T. 0.036 min

Lab File: VU054351.D

Acq: 31 May 2023 20:34

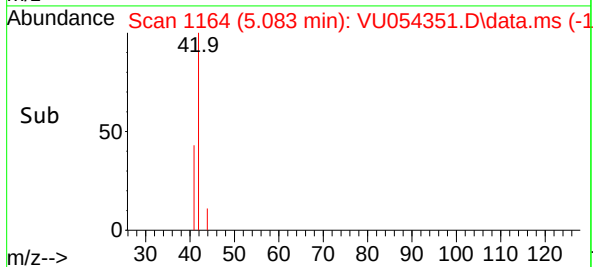
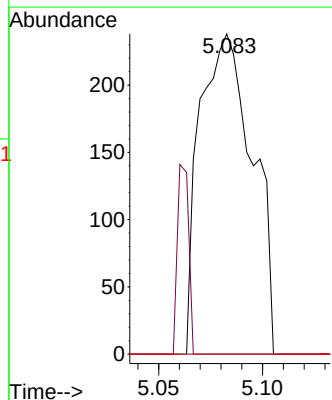
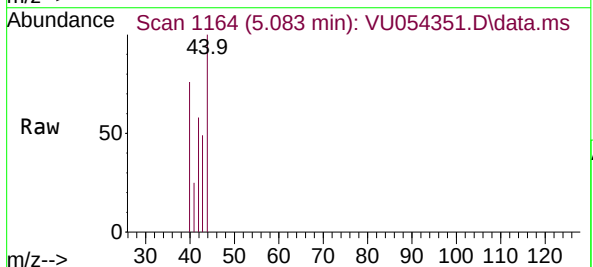
Tgt Ion: 42 Resp: 420

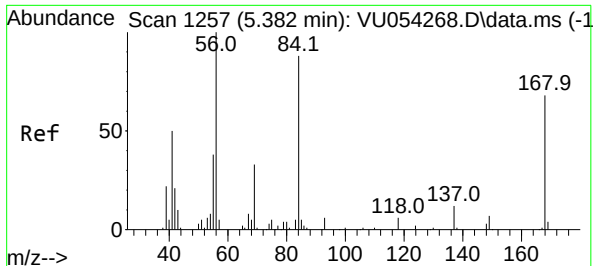
Ion Ratio Lower Upper

42 100

72 0.0 42.6 63.8#

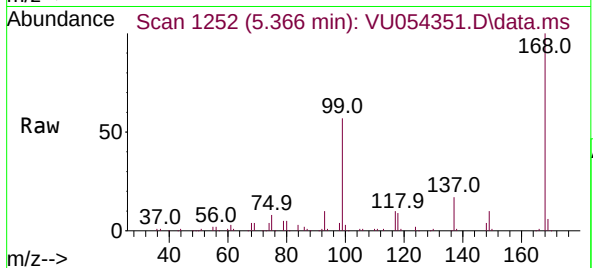
71 0.0 40.3 60.5#



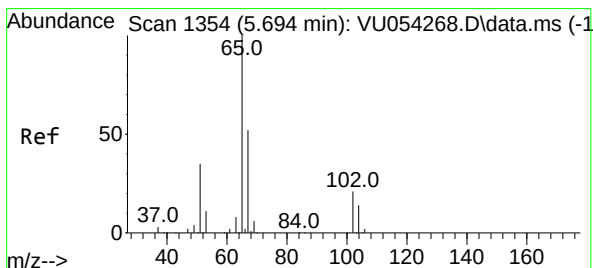
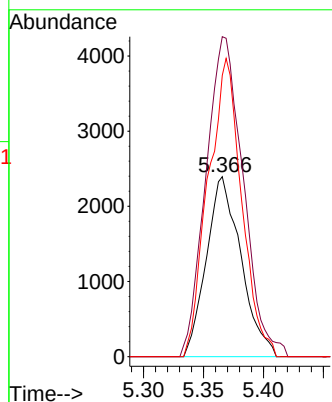
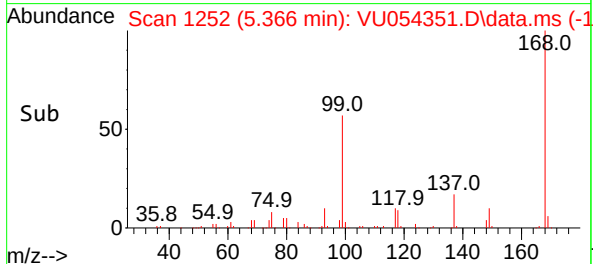


#31
Cyclohexane
Concen: 1.023 ug/l
RT: 5.366 min Scan# 1252
Delta R.T. -0.016 min
Lab File: VU054351.D
Acq: 31 May 2023 20:34

Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#10

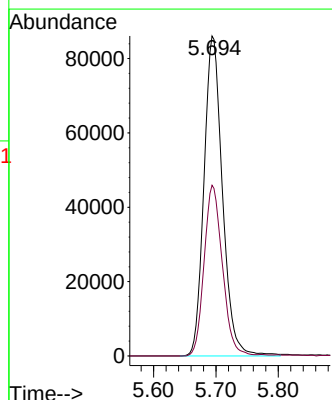
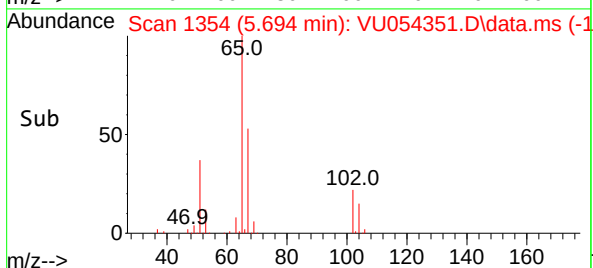
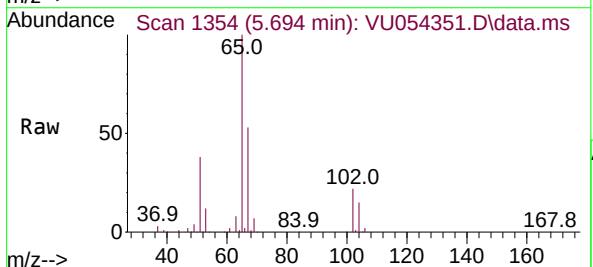


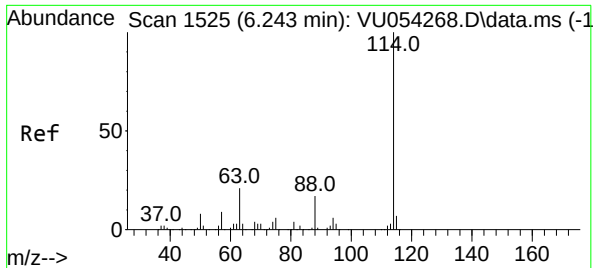
Tgt Ion: 56 Resp: 4794
Ion Ratio Lower Upper
56 100
69 177.7 27.8 41.8#
84 156.2 74.2 111.4#



#33
1,2-Dichloroethane-d4
Concen: 53.448 ug/l
RT: 5.694 min Scan# 1354
Delta R.T. -0.000 min
Lab File: VU054351.D
Acq: 31 May 2023 20:34

Tgt Ion: 65 Resp: 177468
Ion Ratio Lower Upper
65 100
67 52.7 0.0 108.0

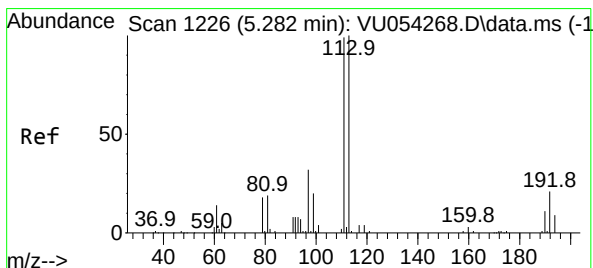
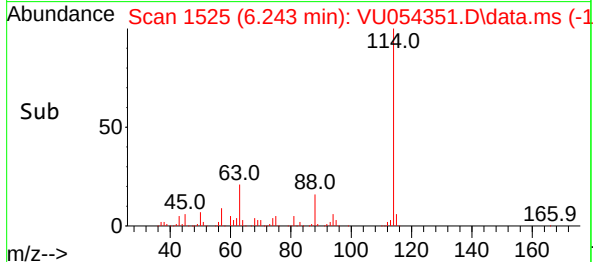
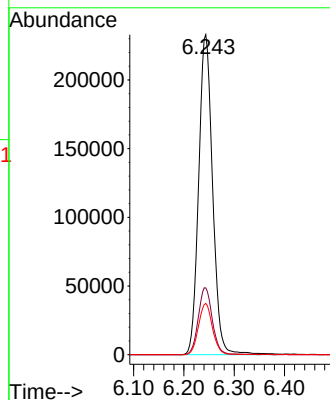
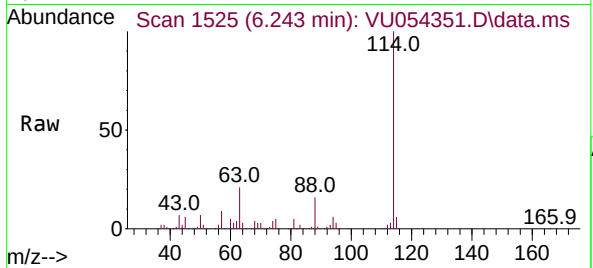




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.243 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU054351.D
Acq: 31 May 2023 20:34

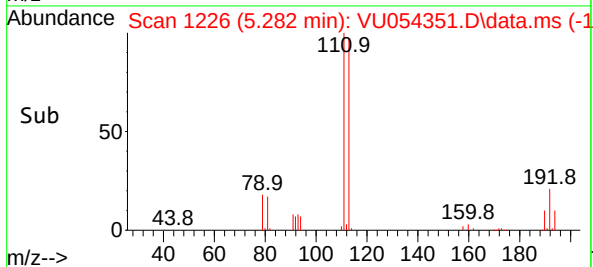
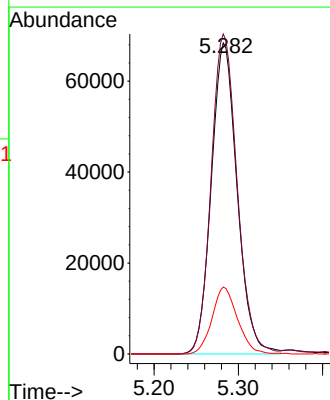
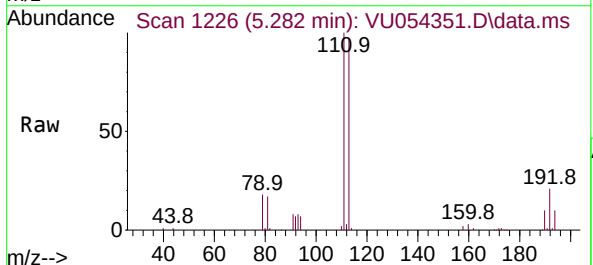
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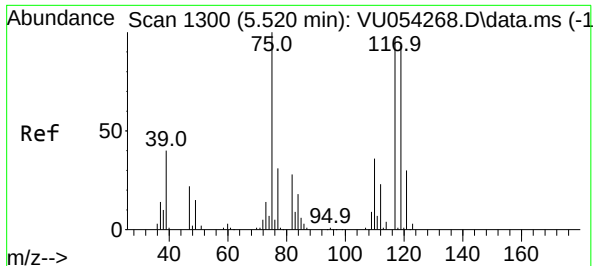
Tgt Ion:114 Resp: 449413
Ion Ratio Lower Upper
114 100
63 20.8 0.0 37.8
88 16.0 0.0 29.2



#35
Dibromofluoromethane
Concen: 50.270 ug/l
RT: 5.282 min Scan# 1226
Delta R.T. 0.000 min
Lab File: VU054351.D
Acq: 31 May 2023 20:34

Tgt Ion:113 Resp: 145488
Ion Ratio Lower Upper
113 100
111 103.5 82.1 123.1
192 21.3 18.0 27.0





#36

1,1-Dichloropropene

Concen: 4.316 ug/l

RT: 5.366 min Scan# 11

Delta R.T. -0.154 min

Lab File: VU054351.D

Acq: 31 May 2023 20:34

Instrument :

MSVOA_U

ClientSampleId :

PB153123ZHE#10

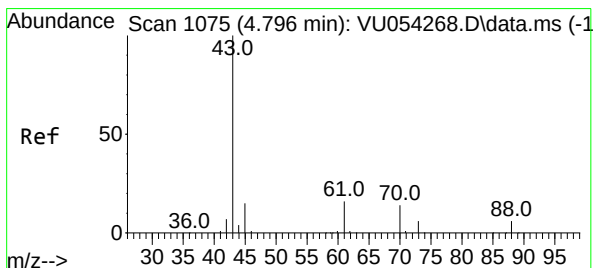
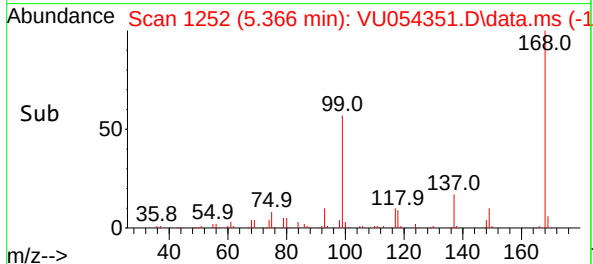
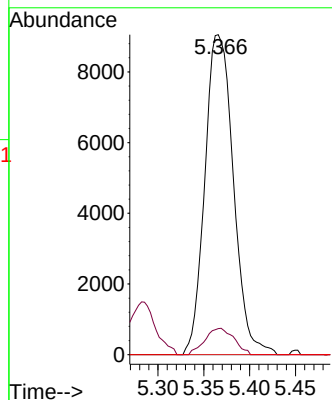
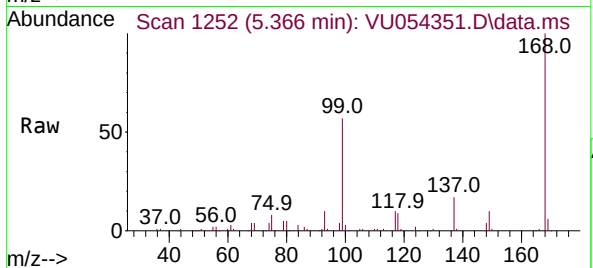
Tgt Ion: 75 Resp: 19619

Ion Ratio Lower Upper

75 100

110 8.4 18.4 55.2#

77 0.0 25.1 37.7#



#37

Ethyl Acetate

Concen: 8.720 ug/l

RT: 4.800 min Scan# 1076

Delta R.T. 0.004 min

Lab File: VU054351.D

Acq: 31 May 2023 20:34

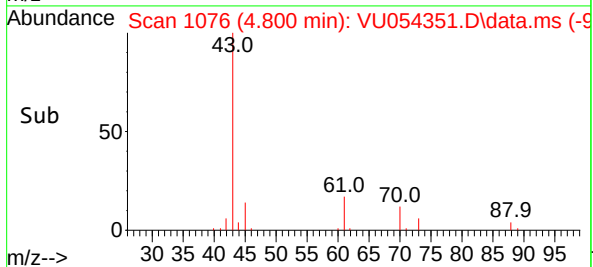
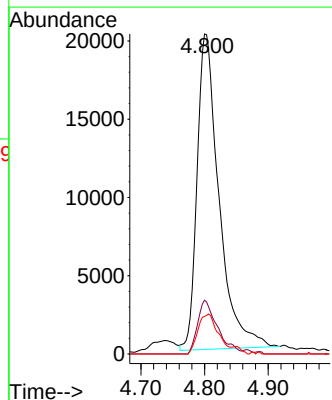
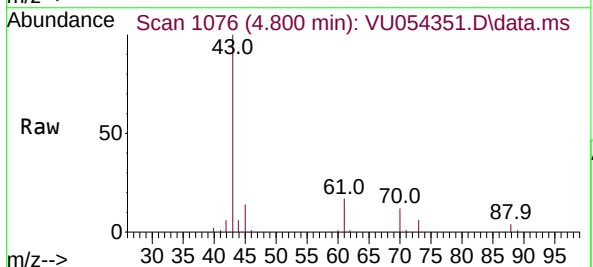
Tgt Ion: 43 Resp: 48307

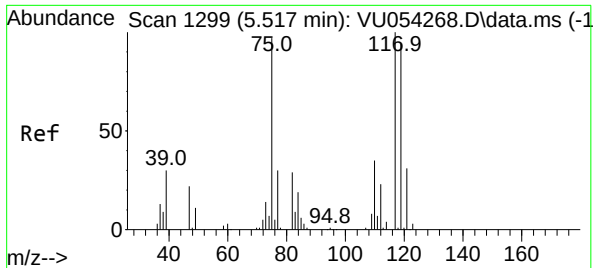
Ion Ratio Lower Upper

43 100

61 15.4 9.5 14.3#

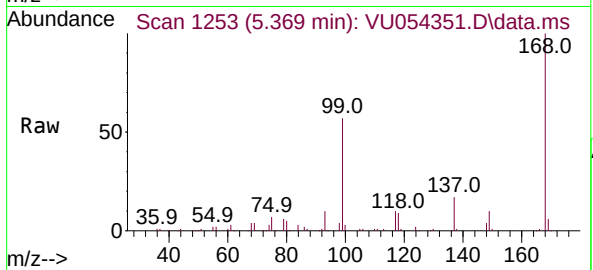
70 11.6 7.5 11.3#



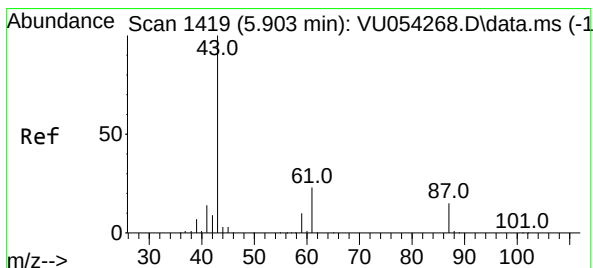
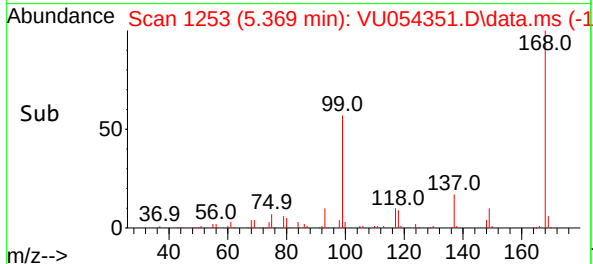
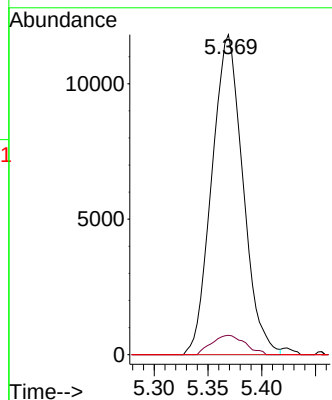


#38
Carbon Tetrachloride
Concen: 5.096 ug/l
RT: 5.369 min Scan# 11
Delta R.T. -0.148 min
Lab File: VU054351.D
Acq: 31 May 2023 20:34

Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#10

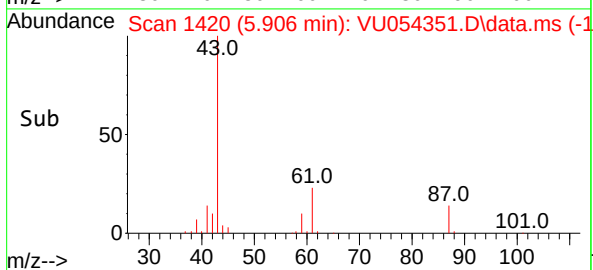
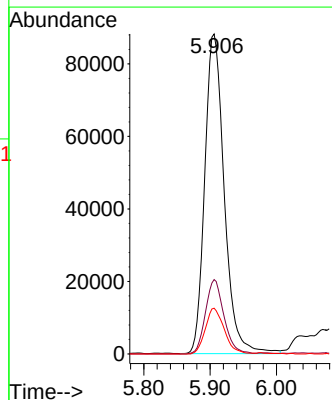
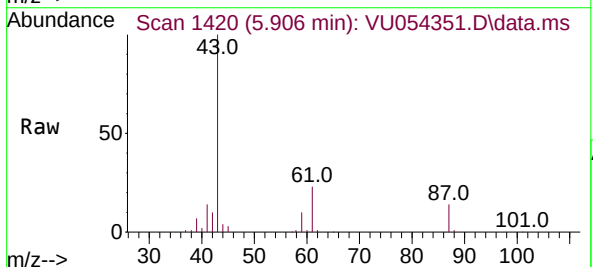


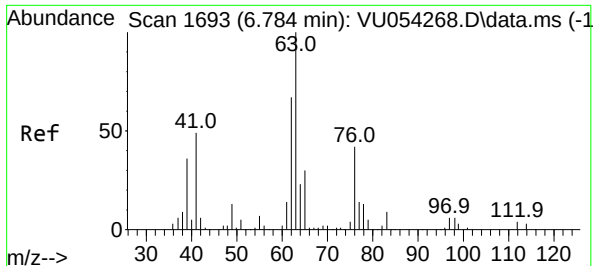
Tgt Ion:117 Resp: 23711
Ion Ratio Lower Upper
117 100
119 6.1 76.8 115.2#
121 0.0 24.7 37.1#



#43
Isopropyl Acetate
Concen: 23.583 ug/l
RT: 5.906 min Scan# 1420
Delta R.T. 0.003 min
Lab File: VU054351.D
Acq: 31 May 2023 20:34

Tgt Ion: 43 Resp: 180210
Ion Ratio Lower Upper
43 100
61 22.1 17.4 26.0
87 13.9 12.6 18.8





#45

1,2-Dichloropropane

Concen: 0.775 ug/l

RT: 7.028 min Scan# 1

Delta R.T. 0.244 min

Lab File: VU054351.D

Acq: 31 May 2023 20:34

Instrument :

MSVOA_U

ClientSampleId :

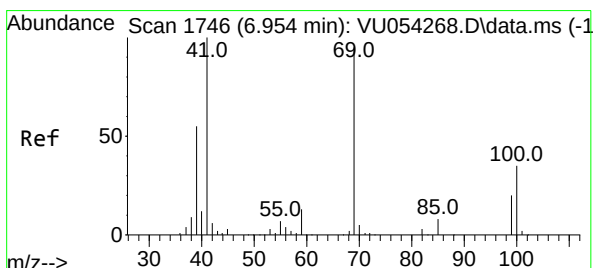
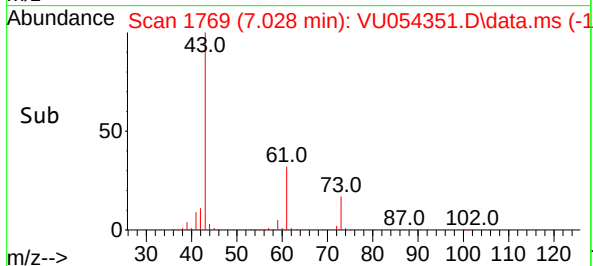
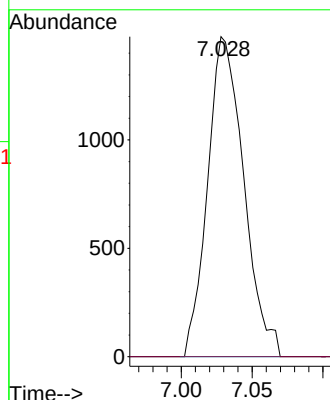
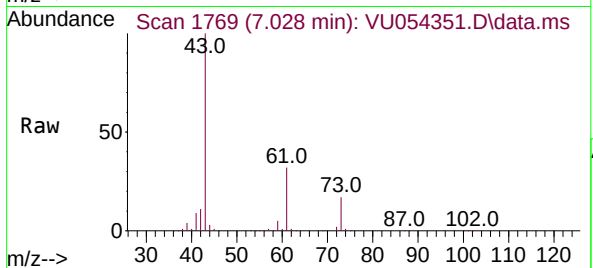
PB153123ZHE#10

Tgt Ion: 63 Resp: 2621

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.4#



#48

Methyl methacrylate

Concen: 1.782 ug/l

RT: 6.903 min Scan# 1730

Delta R.T. -0.051 min

Lab File: VU054351.D

Acq: 31 May 2023 20:34

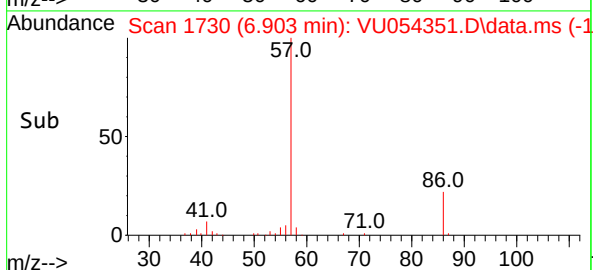
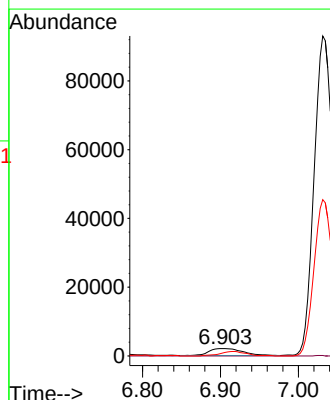
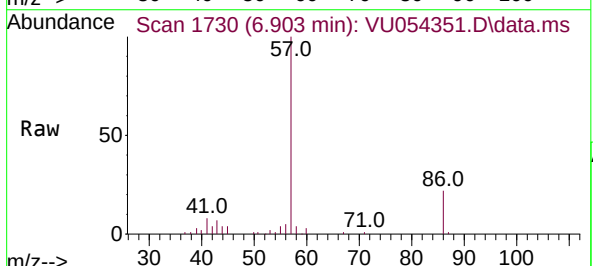
Tgt Ion: 41 Resp: 6039

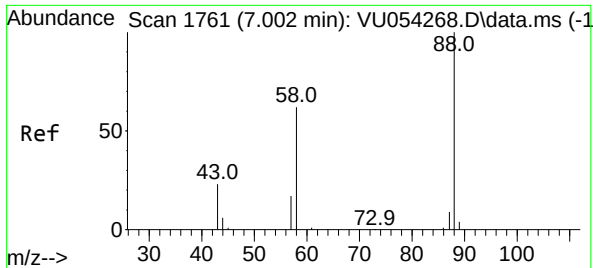
Ion Ratio Lower Upper

41 100

69 0.0 79.8 119.6#

39 51.4 47.9 71.9

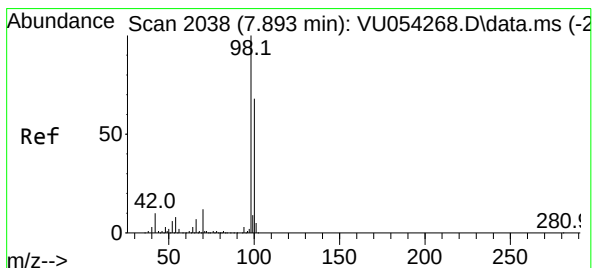
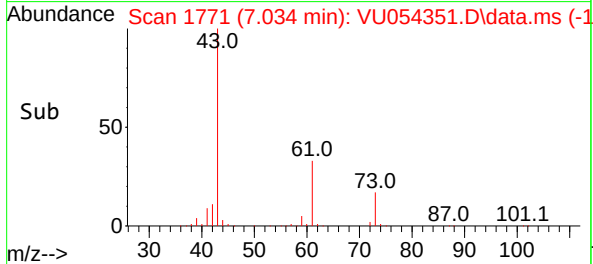
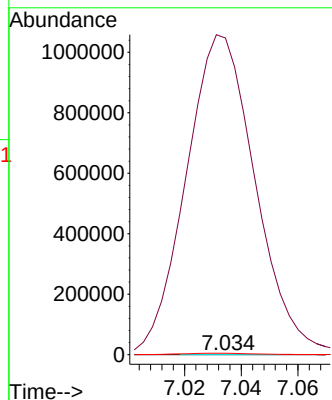
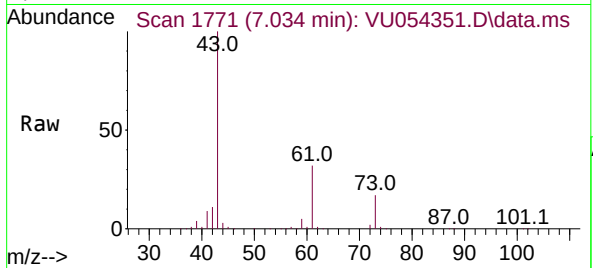




#49
1,4-Dioxane
Concen: 2.331 ug/l
RT: 7.034 min Scan# 11
Delta R.T. 0.032 min
Lab File: VU054351.D
Acq: 31 May 2023 20:34

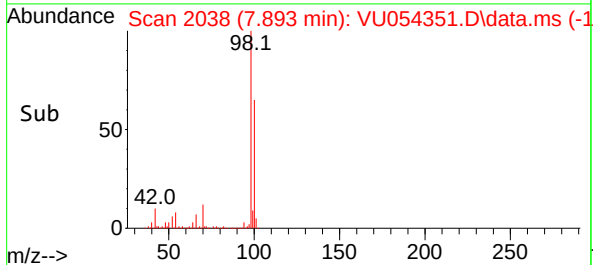
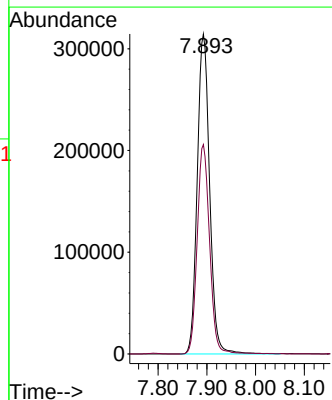
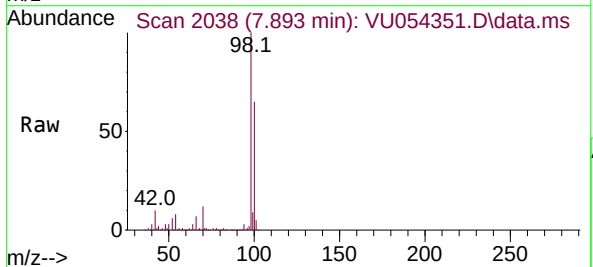
Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#10

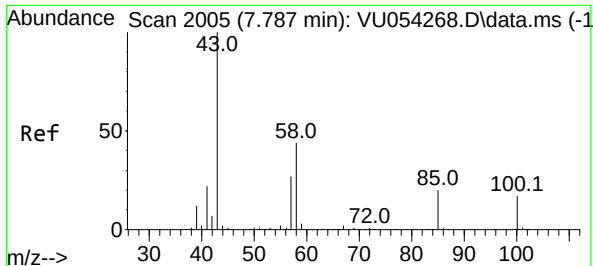
Tgt Ion: 88 Resp: 228
Ion Ratio Lower Upper
88 100
43 803827.2 0.0 0.0#
58 4002.6 15.4 23.0#



#50
Toluene-d8
Concen: 50.458 ug/l
RT: 7.893 min Scan# 2038
Delta R.T. -0.000 min
Lab File: VU054351.D
Acq: 31 May 2023 20:34

Tgt Ion: 98 Resp: 555461
Ion Ratio Lower Upper
98 100
100 65.4 51.7 77.5





#51

4-Methyl-2-Pentanone

Concen: 1.659 ug/l

RT: 7.790 min Scan# 2005

Delta R.T. 0.003 min

Lab File: VU054351.D

Acq: 31 May 2023 20:34

Instrument :

MSVOA_U

ClientSampleId :

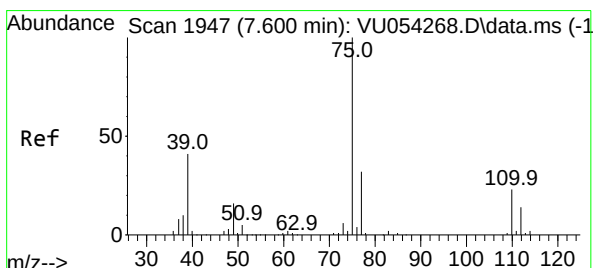
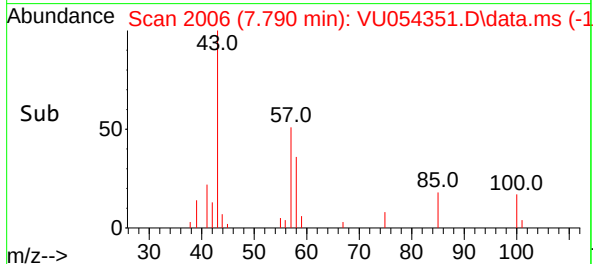
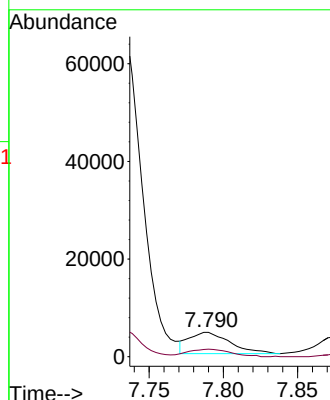
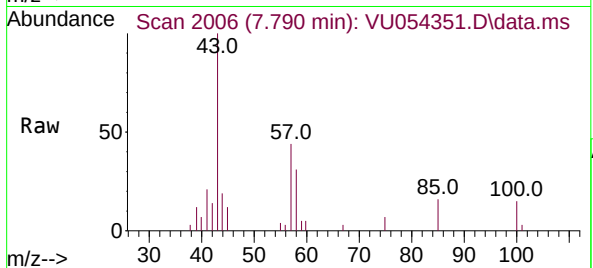
PB153123ZHE#10

Tgt Ion: 43 Resp: 8459

Ion Ratio Lower Upper

43 100

58 36.5 34.7 52.1



#54

cis-1,3-Dichloropropene

Concen: 11.299 ug/l

RT: 7.732 min Scan# 1988

Delta R.T. 0.132 min

Lab File: VU054351.D

Acq: 31 May 2023 20:34

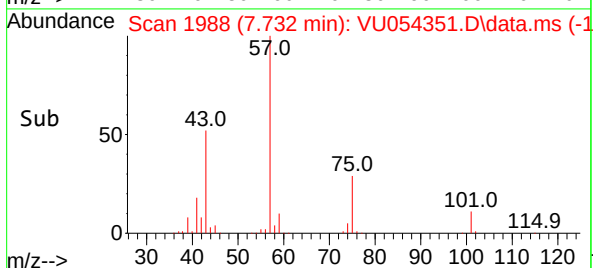
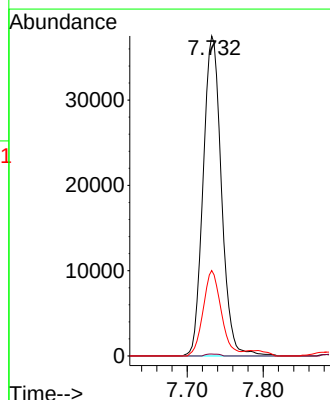
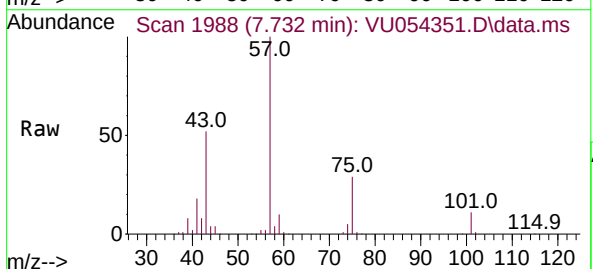
Tgt Ion: 75 Resp: 62814

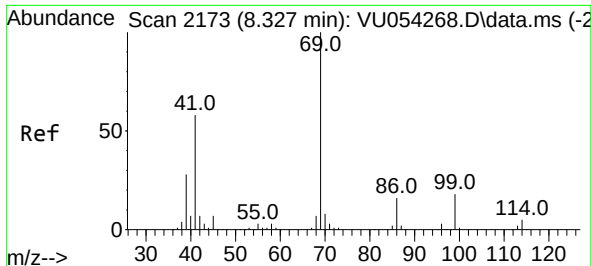
Ion Ratio Lower Upper

75 100

77 0.6 25.7 38.5#

39 26.7 33.0 49.6#

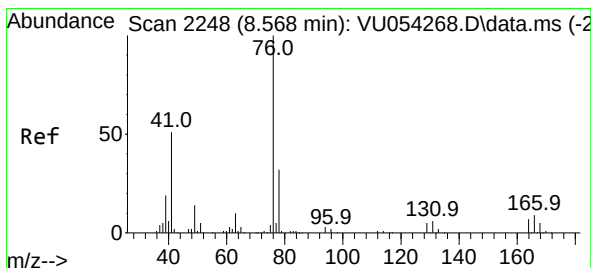
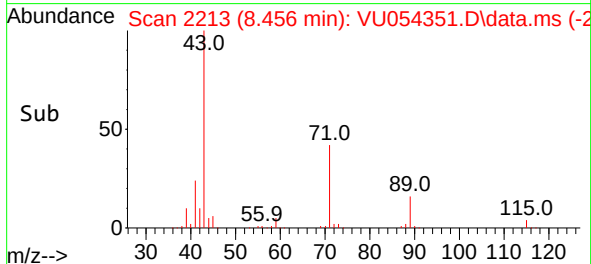
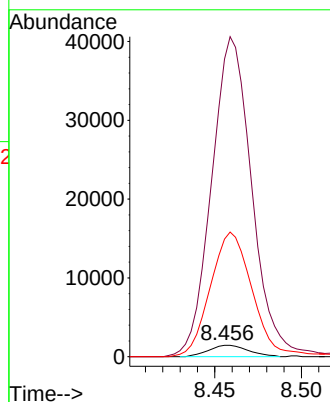
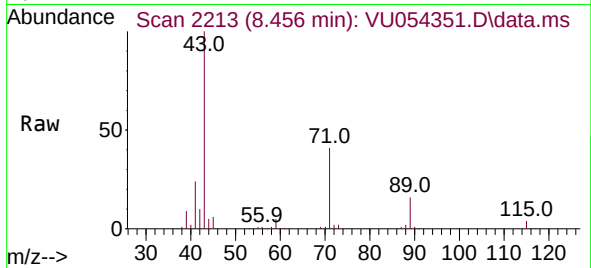




#56
Ethyl methacrylate
Concen: 0.453 ug/l
RT: 8.456 min Scan# 2173
Delta R.T. 0.129 min
Lab File: VU054351.D
Acq: 31 May 2023 20:34

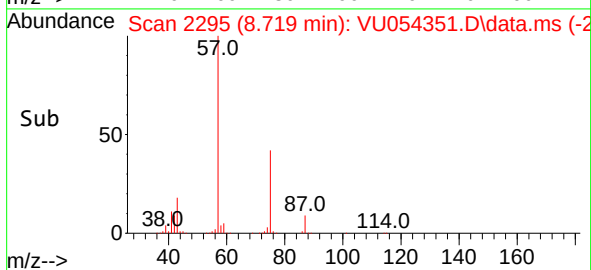
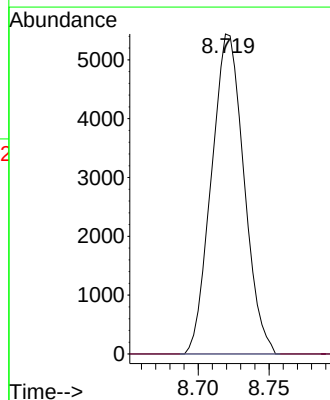
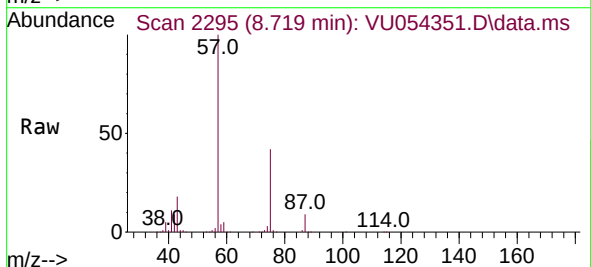
Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#10

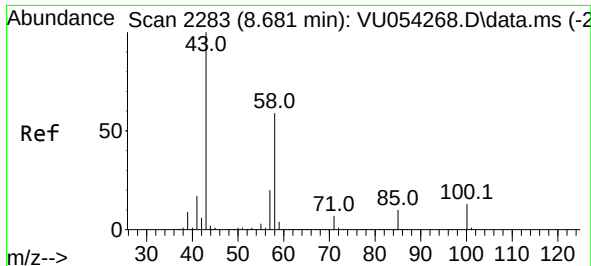
Tgt Ion: 69 Resp: 2308
Ion Ratio Lower Upper
69 100
41 2852.1 45.4 68.0#
39 1161.2 25.7 38.5#



#57
1,3-Dichloropropane
Concen: 1.472 ug/l
RT: 8.719 min Scan# 2295
Delta R.T. 0.151 min
Lab File: VU054351.D
Acq: 31 May 2023 20:34

Tgt Ion: 76 Resp: 8685
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

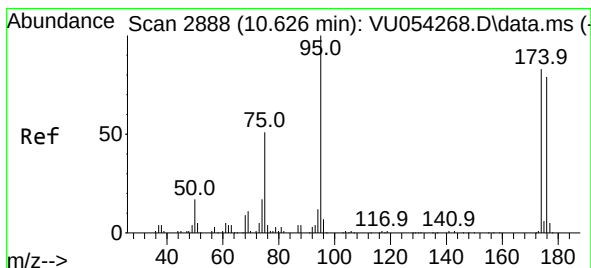
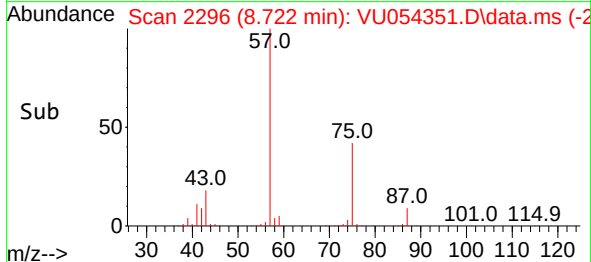
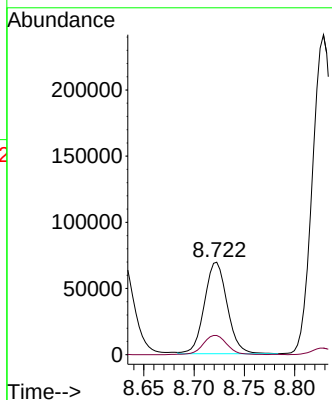
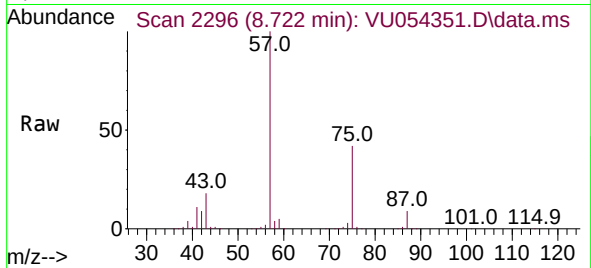




#59
2-Hexanone
Concen: 27.050 ug/l
RT: 8.722 min Scan# 21
Delta R.T. 0.041 min
Lab File: VU054351.D
Acq: 31 May 2023 20:34

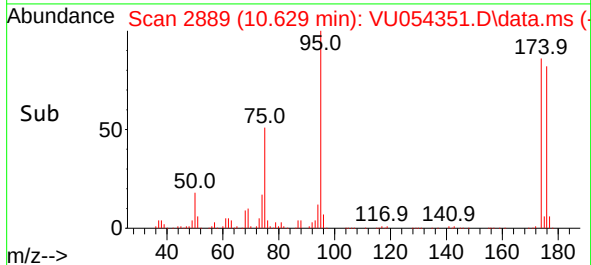
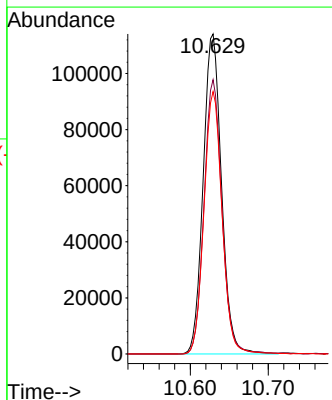
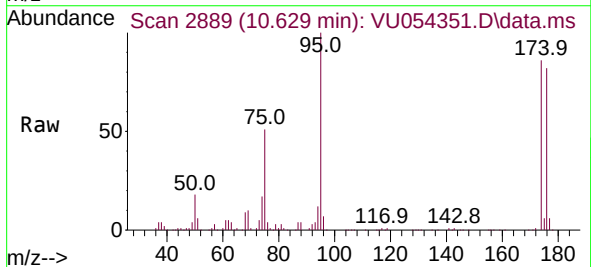
Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#10

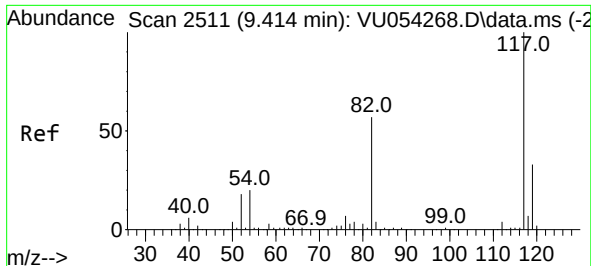
Tgt Ion: 43 Resp: 108965
Ion Ratio Lower Upper
43 100
58 22.4 30.3 90.8#



#62
4-Bromofluorobenzene
Concen: 43.729 ug/l
RT: 10.629 min Scan# 2889
Delta R.T. 0.003 min
Lab File: VU054351.D
Acq: 31 May 2023 20:34

Tgt Ion: 95 Resp: 186654
Ion Ratio Lower Upper
95 100
174 83.9 0.0 182.0
176 81.2 0.0 177.8

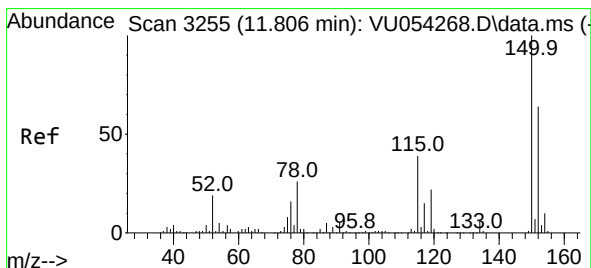
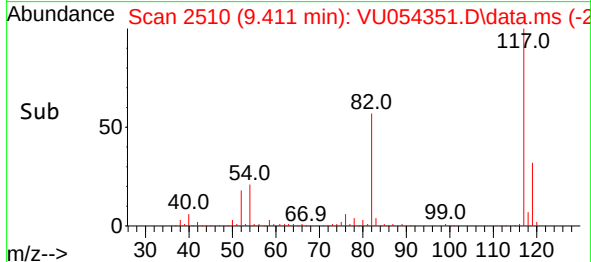
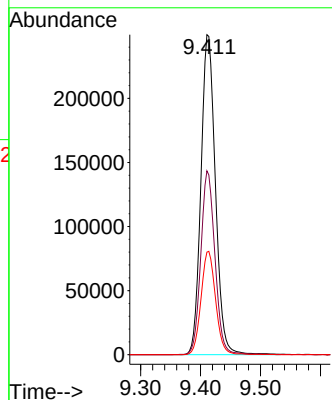
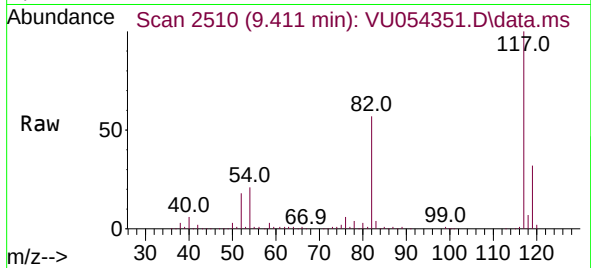




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.411 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU054351.D
Acq: 31 May 2023 20:34

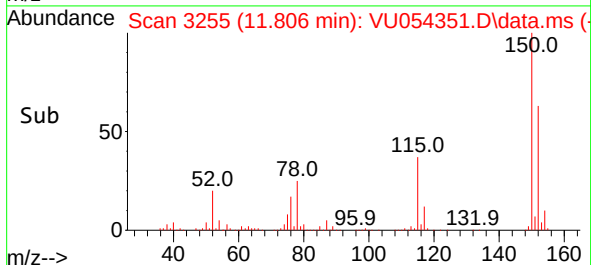
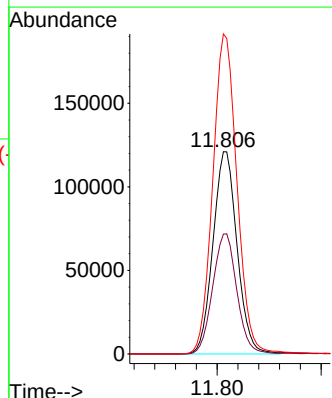
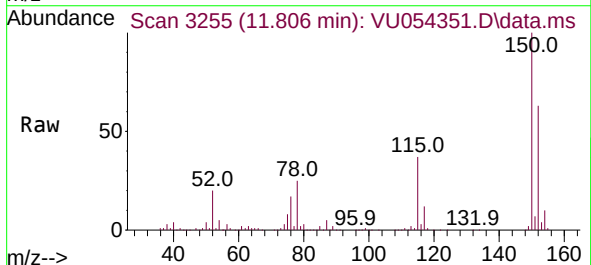
Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#10

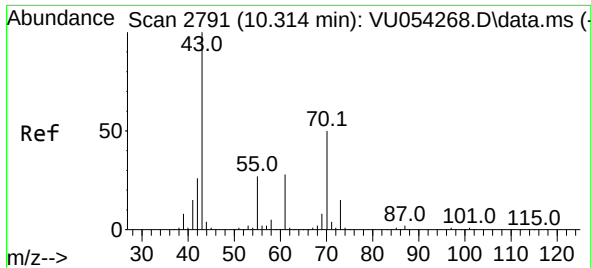
Tgt Ion:117 Resp: 421316
Ion Ratio Lower Upper
117 100
82 57.4 41.7 62.5
119 32.0 25.7 38.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.806 min Scan# 3255
Delta R.T. -0.000 min
Lab File: VU054351.D
Acq: 31 May 2023 20:34

Tgt Ion:152 Resp: 194729
Ion Ratio Lower Upper
152 100
115 59.7 37.0 110.9
150 159.4 0.0 342.2

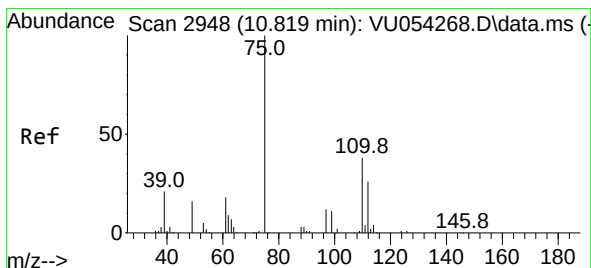
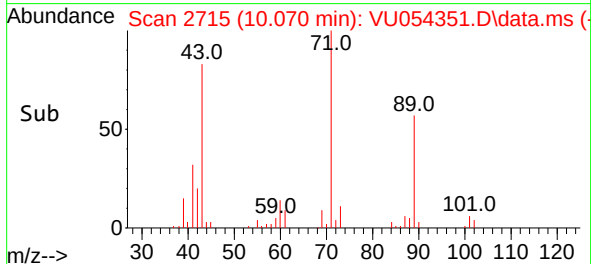
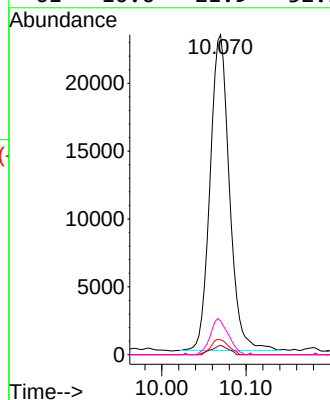
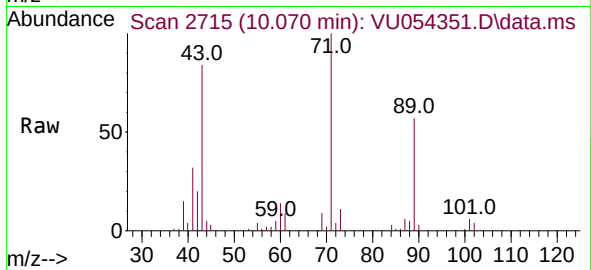




#74
N-amy1 acetate
Concen: 7.263 ug/l
RT: 10.070 min Scan# 21
Delta R.T. -0.244 min
Lab File: VU054351.D
Acq: 31 May 2023 20:34

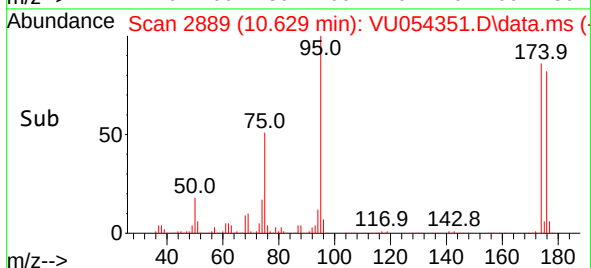
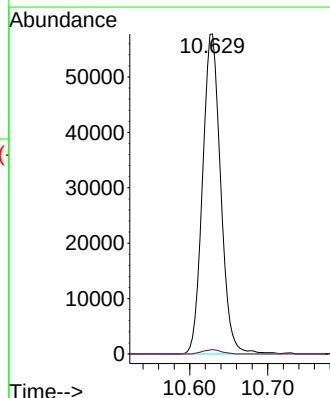
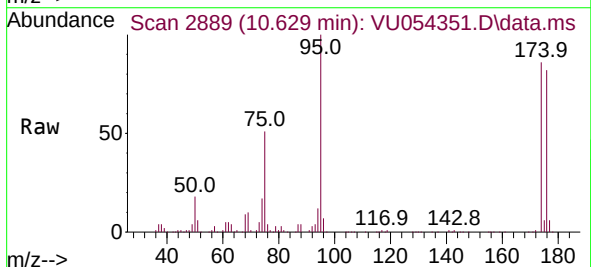
Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#10

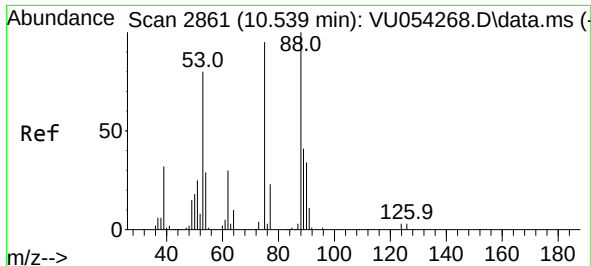
Tgt Ion:	43	Resp:	37192
Ion	Ratio	Lower	Upper
43	100		
70	2.5	38.7	58.1#
55	4.4	21.8	32.8#
61	10.6	21.9	32.9#



#76
1,2,3-Trichloropropane
Concen: 16.424 ug/l
RT: 10.629 min Scan# 2889
Delta R.T. -0.190 min
Lab File: VU054351.D
Acq: 31 May 2023 20:34

Tgt Ion:	75	Resp:	93343
Ion	Ratio	Lower	Upper
75	100		
77	1.4	15.8	47.3#

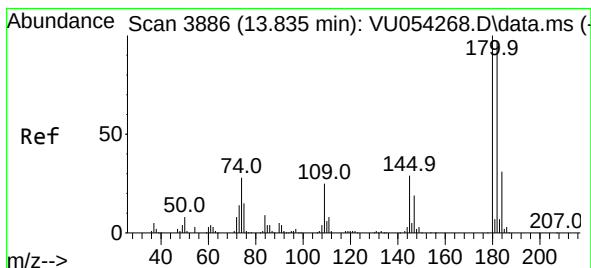
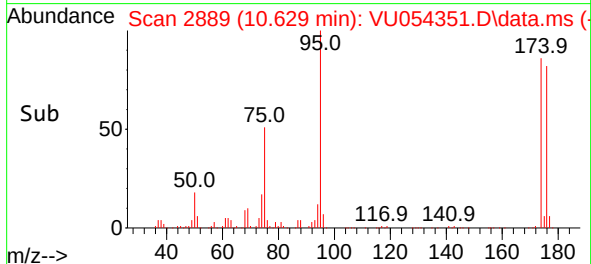
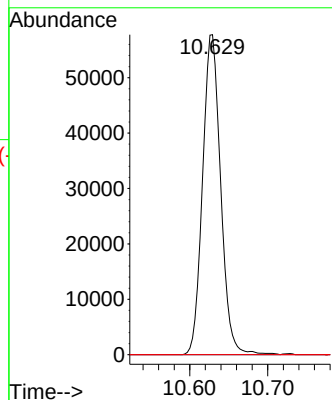
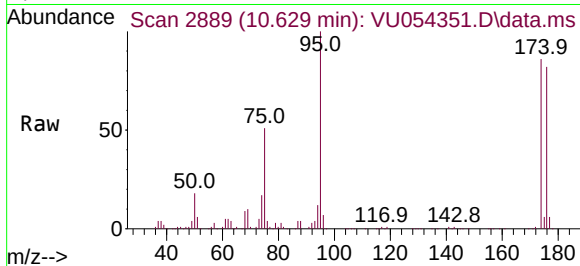




#81
trans-1,4-Dichloro-2-butene
Concen: 62.541 ug/l
RT: 10.629 min Scan# 2889
Delta R.T. 0.090 min
Lab File: VU054351.D
Acq: 31 May 2023 20:34

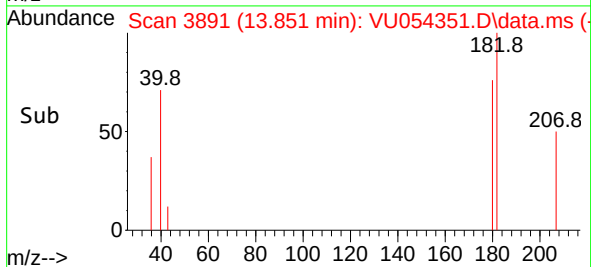
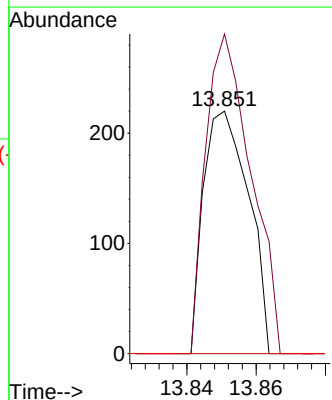
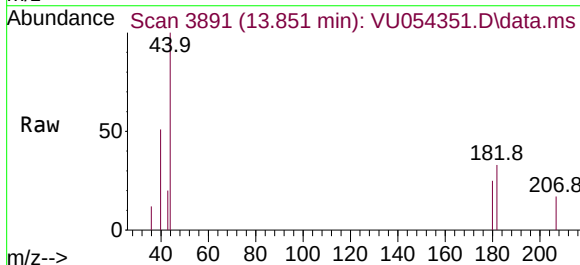
Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#10

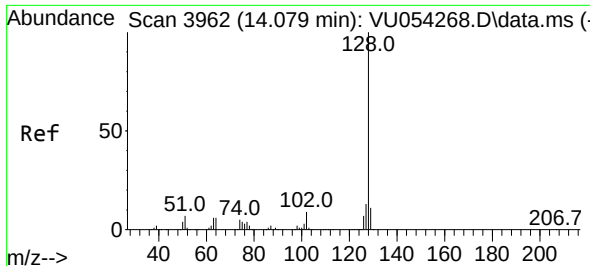
Tgt Ion: 75 Resp: 93343
Ion Ratio Lower Upper
75 100
53 0.0 69.2 103.8#
89 0.0 37.0 55.6#



#93
1,2,4-Trichlorobenzene
Concen: 1.686 ug/l
RT: 13.851 min Scan# 3891
Delta R.T. 0.016 min
Lab File: VU054351.D
Acq: 31 May 2023 20:34

Tgt Ion:180 Resp: 199
Ion Ratio Lower Upper
180 100
182 132.2 47.9 143.6
145 0.0 14.0 41.9#

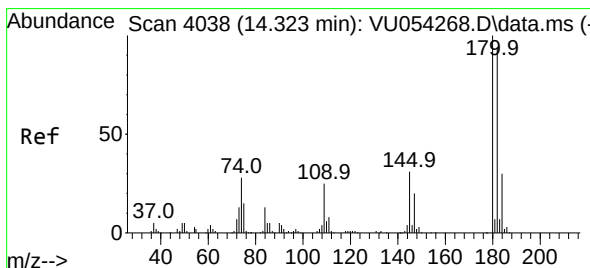
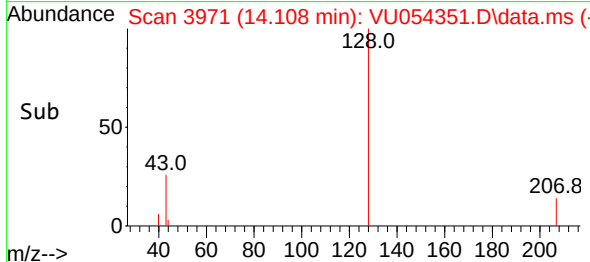
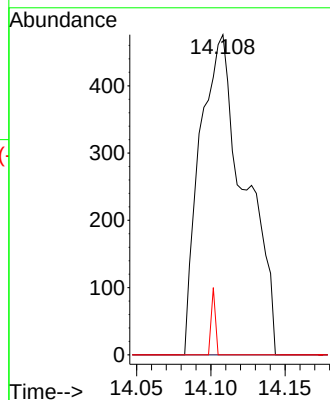
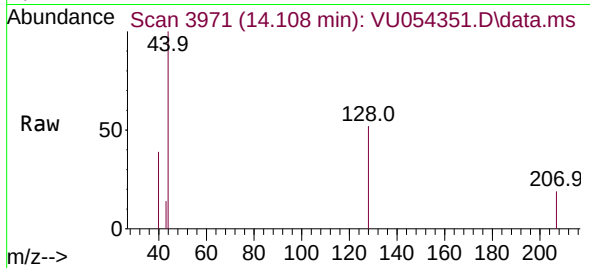




#95
Naphthalene
Concen: 2.058 ug/l
RT: 14.108 min Scan# 3962
Delta R.T. 0.029 min
Lab File: VU054351.D
Acq: 31 May 2023 20:34

Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#10

Tgt Ion:128 Resp: 1002
Ion Ratio Lower Upper
128 100
127 0.0 10.3 15.5#
129 1.9 8.6 13.0#



#96
1,2,3-Trichlorobenzene
Concen: 1.279 ug/l
RT: 14.336 min Scan# 4042
Delta R.T. 0.013 min
Lab File: VU054351.D
Acq: 31 May 2023 20:34

Tgt Ion:180 Resp: 112
Ion Ratio Lower Upper
180 100
182 84.8 48.4 145.0
145 0.0 14.8 44.4#

