

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU053123\
 Data File : VU054341.D
 Acq On : 31 May 2023 16:36
 Operator : JC/MD
 Sample : PB153123TB
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PB153123TB

Quant Time: Jun 01 05:22:46 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)

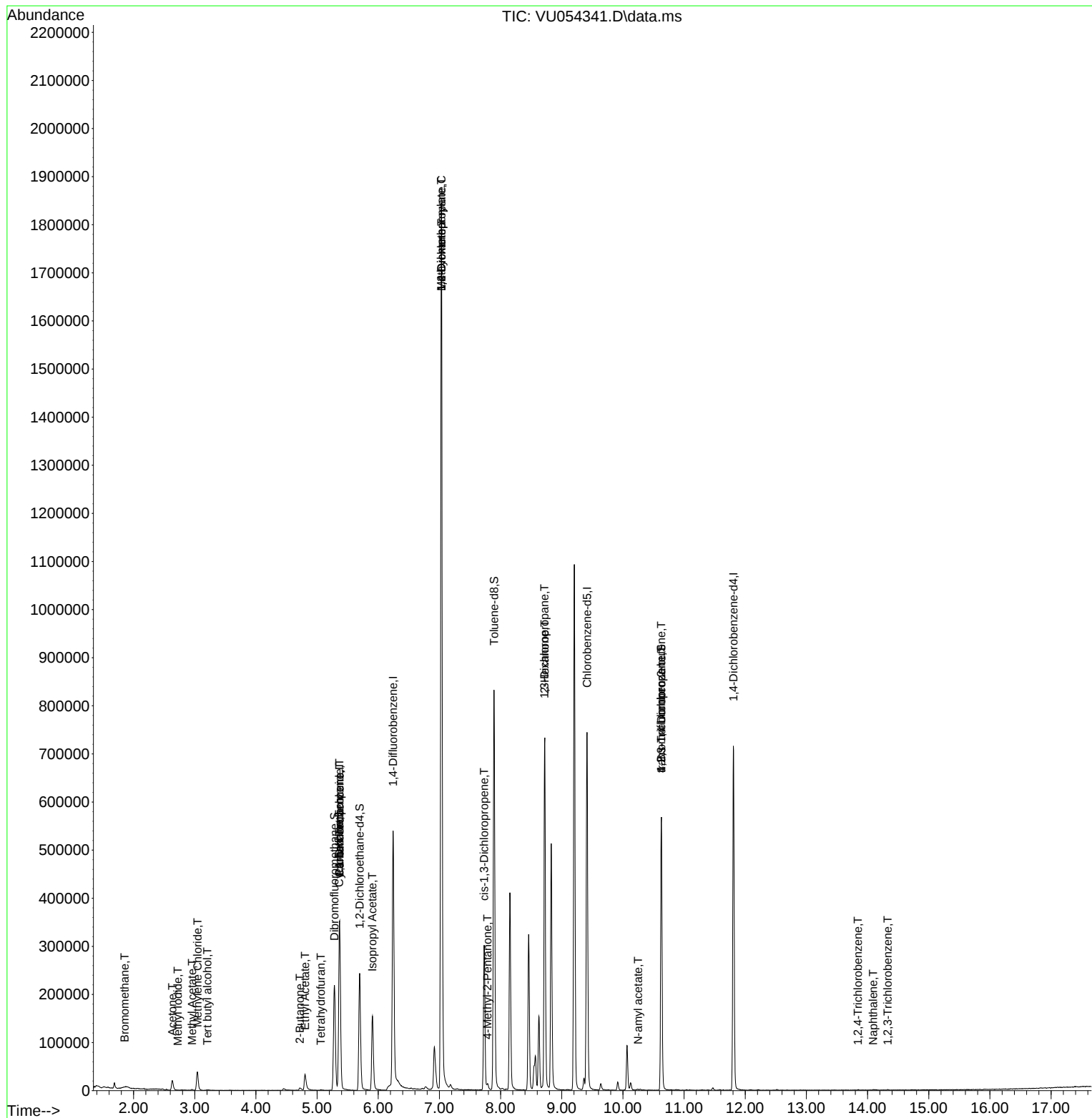
Internal Standards						
1) Pentafluorobenzene	5.369	168	260725	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.243	114	439021	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.414	117	426002	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.806	152	195181	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.697	65	179815	52.611	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 105.220%			
35) Dibromofluoromethane	5.282	113	143291	50.683	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.360%			
50) Toluene-d8	7.893	98	551176	51.254	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 102.500%			
62) 4-Bromofluorobenzene	10.629	95	191132	45.838	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 91.680%			
Target Compounds						Qvalue
5) Bromomethane	1.854	94	422	0.210	ug/l	84
10) Methyl Iodide	2.723	142	41	2.343	ug/l #	43
11) Tert butyl alcohol	3.205	59	1137	1.232	ug/l #	37
16) Acetone	2.633	43	26449	13.500	ug/l	96
18) Methyl Acetate	2.954	43	2456	0.343	ug/l #	81
20) Methylene Chloride	3.044	84	19808	5.604	ug/l	97
25) 2-Butanone	4.719	43	7831	3.019	ug/l	100
29) Tetrahydrofuran	5.060	42	409	0.251	ug/l	98
31) Cyclohexane	5.362	56	4803	0.995	ug/l #	1
36) 1,1-Dichloropropene	5.366	75	19625	4.419	ug/l #	49
37) Ethyl Acetate	4.803	43	44963	8.308	ug/l #	90
38) Carbon Tetrachloride	5.366	117	24040	5.289	ug/l #	16
43) Isopropyl Acetate	5.906	43	166752	22.338	ug/l	98
45) 1,2-Dichloropropane	7.034	63	2366	0.716	ug/l #	43
48) Methyl methacrylate	7.031	41	149877	45.274	ug/l #	33
49) 1,4-Dioxane	7.034	88	276	2.888	ug/l #	1
51) 4-Methyl-2-Pentanone	7.787	43	7552	1.516	ug/l	90
54) cis-1,3-Dichloropropene	7.732	75	56766	10.452	ug/l #	62
57) 1,3-Dichloropropane	8.719	76	7917	1.374	ug/l #	42
59) 2-Hexanone	8.722	43	97745	24.839	ug/l #	52
74) N-amyl acetate	10.246	43	1385	0.270	ug/l #	39
76) 1,2,3-Trichloropropane	10.629	75	95075	16.690	ug/l #	46
81) trans-1,4-Dichloro-2-b...	10.629	75	95075	63.554	ug/l #	15
93) 1,2,4-Trichlorobenzene	13.841	180	520	1.755	ug/l	71
95) Naphthalene	14.092	128	935	2.053	ug/l #	72
96) 1,2,3-Trichlorobenzene	14.330	180	481	1.360	ug/l #	87

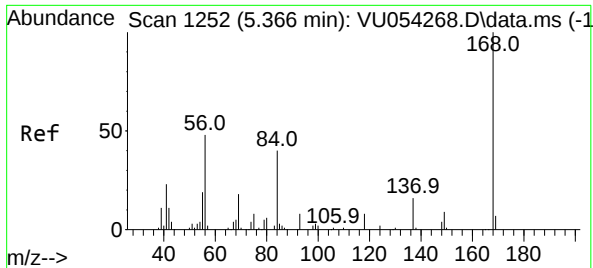
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

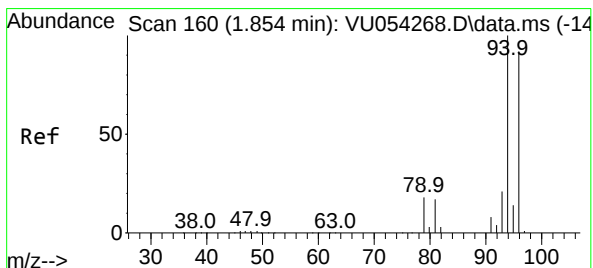
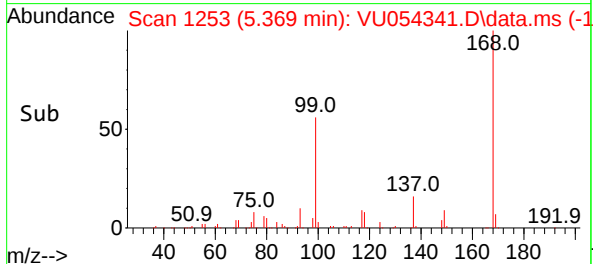
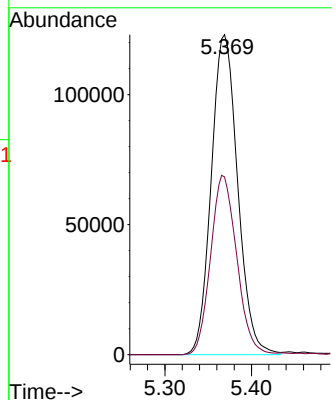
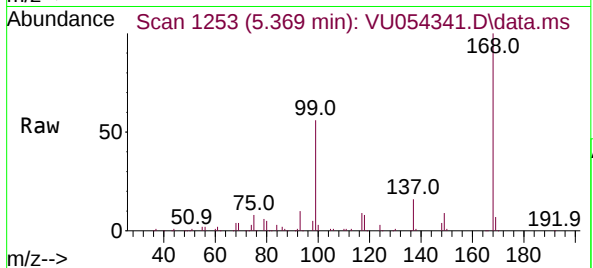




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.369 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU054341.D
Acq: 31 May 2023 16:36

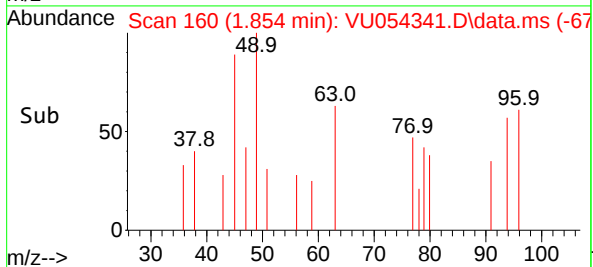
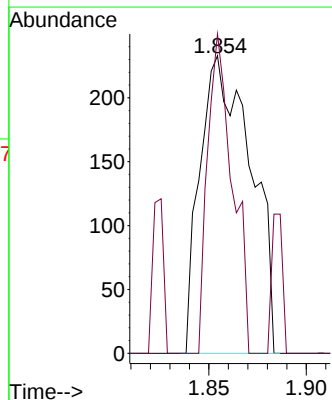
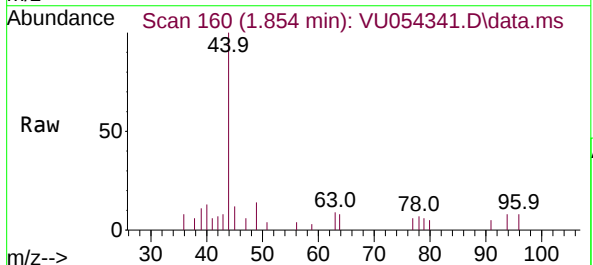
Instrument :
MSVOA_U
ClientSampleId :
PB153123TB

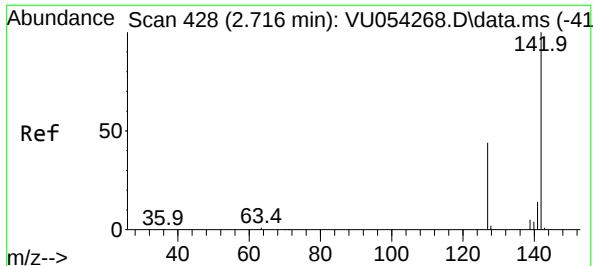
Tgt Ion:168 Resp: 260725
Ion Ratio Lower Upper
168 100
99 55.6 39.3 58.9



#5
Bromomethane
Concen: 0.210 ug/l
RT: 1.854 min Scan# 160
Delta R.T. 0.000 min
Lab File: VU054341.D
Acq: 31 May 2023 16:36

Tgt Ion: 94 Resp: 422
Ion Ratio Lower Upper
94 100
96 107.3 73.7 110.5

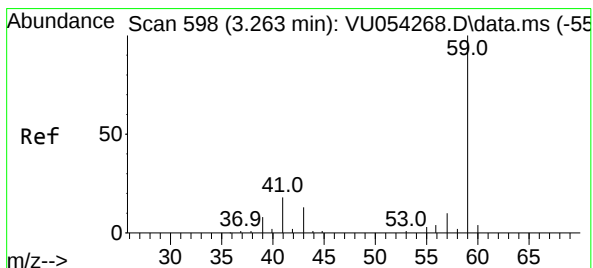
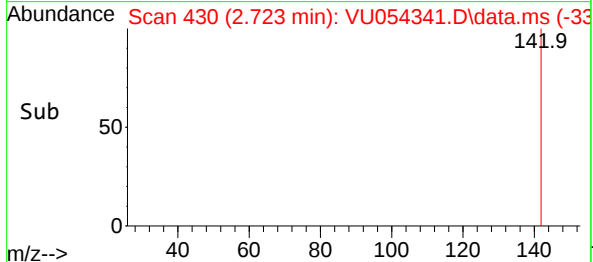
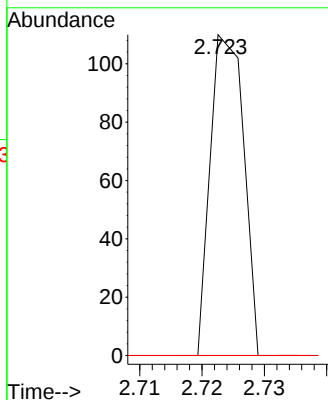
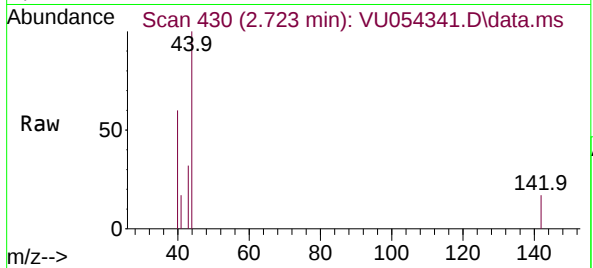




#10
Methyl Iodide
Concen: 2.343 ug/l
RT: 2.723 min Scan# 41
Delta R.T. 0.007 min
Lab File: VU054341.D
Acq: 31 May 2023 16:36

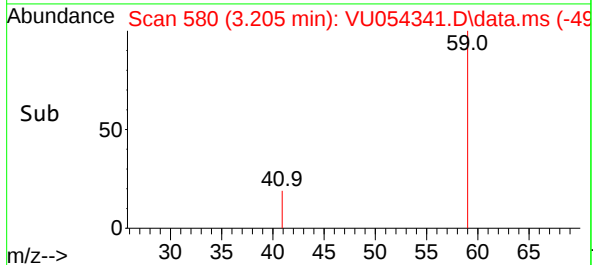
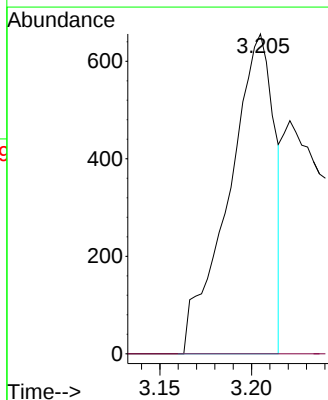
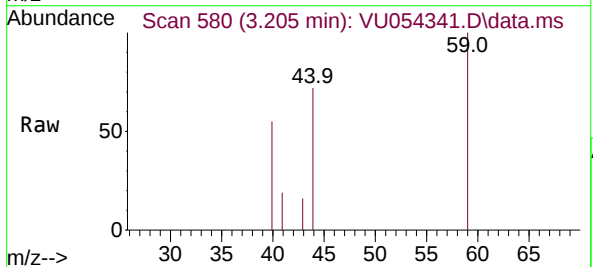
Instrument :
MSVOA_U
ClientSampleId :
PB153123TB

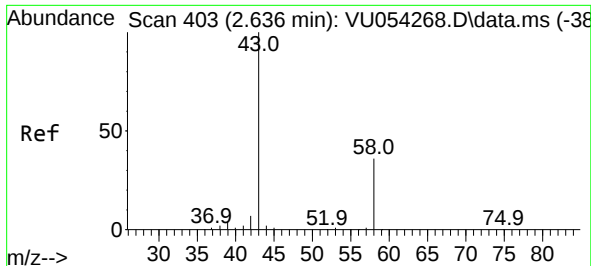
Tgt Ion:142 Resp: 41
Ion Ratio Lower Upper
142 100
127 0.0 32.5 48.7#
141 0.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 1.232 ug/l
RT: 3.205 min Scan# 580
Delta R.T. -0.038 min
Lab File: VU054341.D
Acq: 31 May 2023 16:36

Tgt Ion: 59 Resp: 1137
Ion Ratio Lower Upper
59 100
57 0.0 30.6 45.8#

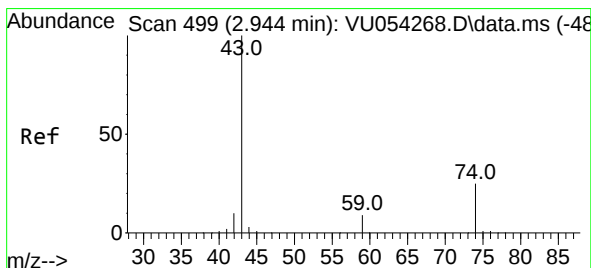
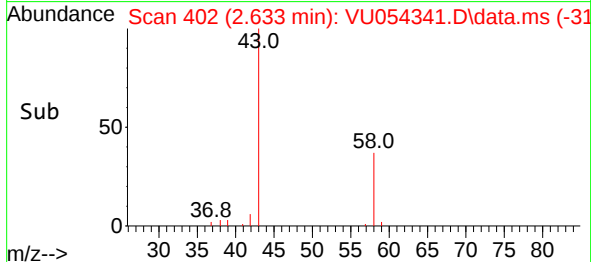
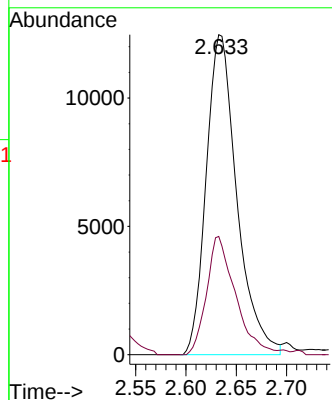
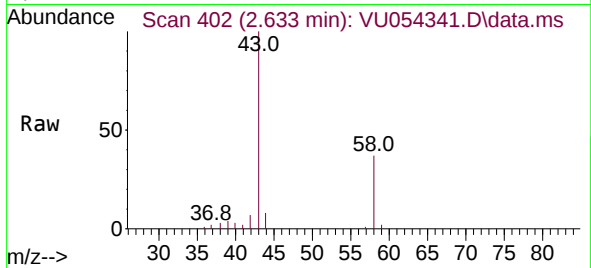




#16
Acetone
Concen: 13.500 ug/l
RT: 2.633 min Scan# 403
Delta R.T. -0.003 min
Lab File: VU054341.D
Acq: 31 May 2023 16:36

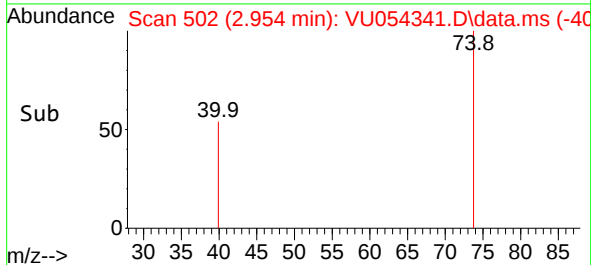
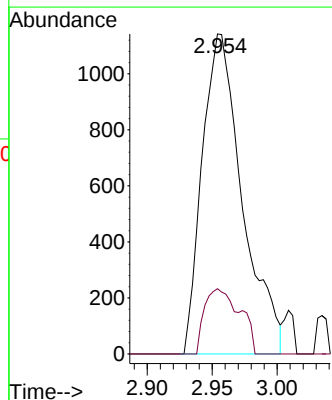
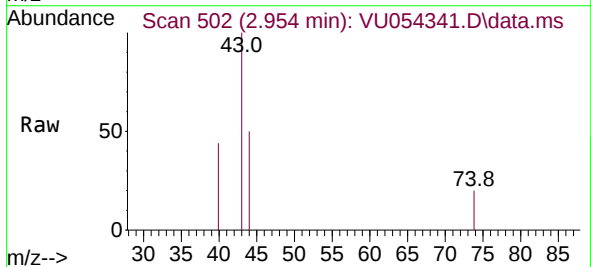
Instrument :
MSVOA_U
ClientSampleId :
PB153123TB

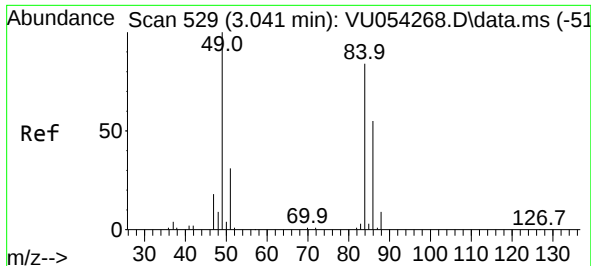
Tgt Ion: 43 Resp: 26449
Ion Ratio Lower Upper
43 100
58 36.9 27.5 41.3



#18
Methyl Acetate
Concen: 0.343 ug/l
RT: 2.954 min Scan# 502
Delta R.T. 0.010 min
Lab File: VU054341.D
Acq: 31 May 2023 16:36

Tgt Ion: 43 Resp: 2456
Ion Ratio Lower Upper
43 100
74 17.9 22.5 33.7#

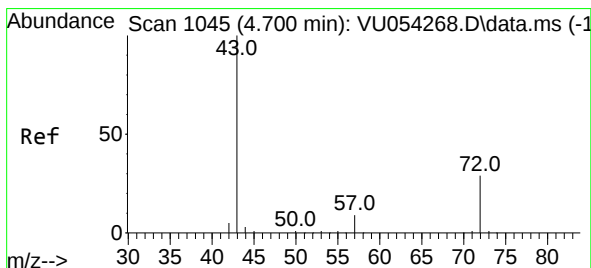
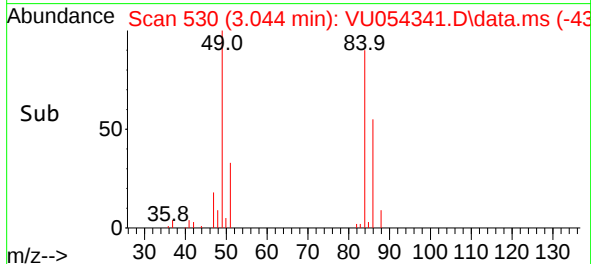
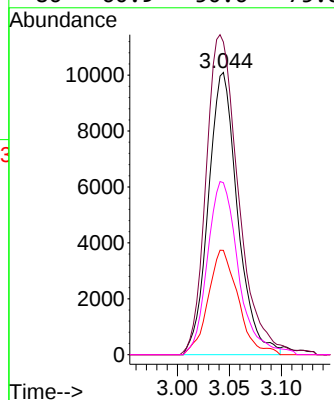
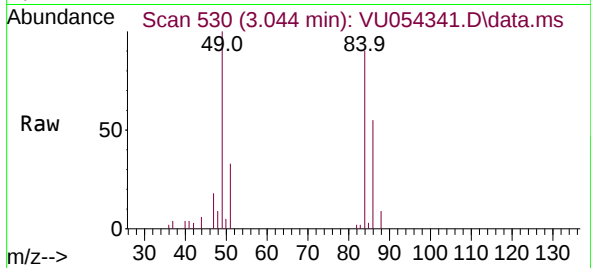




#20
Methylene Chloride
Concen: 5.604 ug/l
RT: 3.044 min Scan# 51
Delta R.T. 0.003 min
Lab File: VU054341.D
Acq: 31 May 2023 16:36

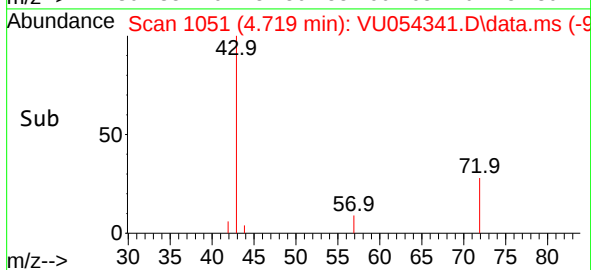
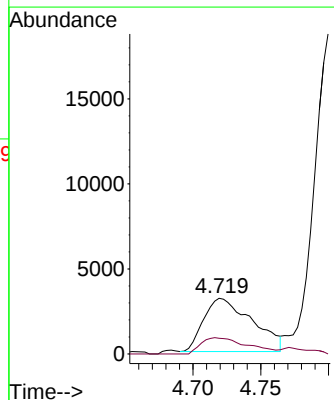
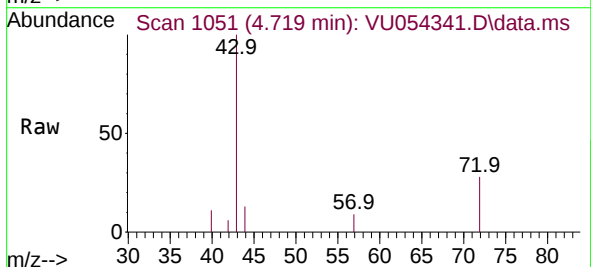
Instrument :
MSVOA_U
ClientSampleId :
PB153123TB

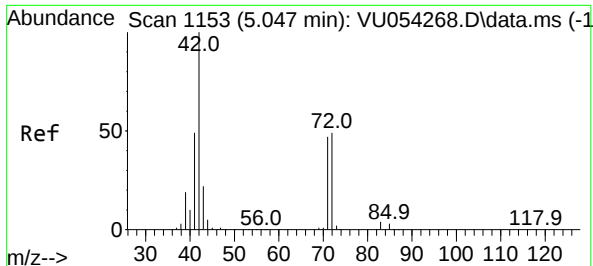
Tgt Ion:	84	Resp:	19808
Ion	Ratio	Lower	Upper
84	100		
49	110.8	86.6	129.8
51	37.0	26.6	40.0
86	60.9	50.6	75.8



#25
2-Butanone
Concen: 3.019 ug/l
RT: 4.719 min Scan# 1051
Delta R.T. 0.019 min
Lab File: VU054341.D
Acq: 31 May 2023 16:36

Tgt Ion:	43	Resp:	7831
Ion	Ratio	Lower	Upper
43	100		
72	29.5	23.8	35.6





#29

Tetrahydrofuran

Concen: 0.251 ug/l

RT: 5.060 min Scan# 1157

Delta R.T. 0.013 min

Lab File: VU054341.D

Acq: 31 May 2023 16:36

Instrument :

MSVOA_U

ClientSampleId :

PB153123TB

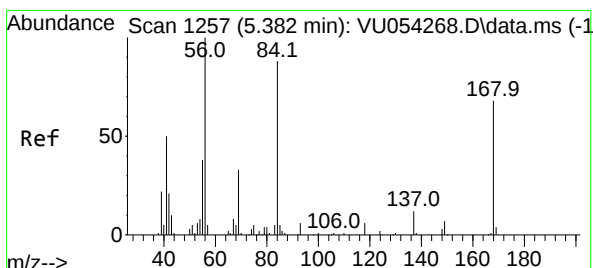
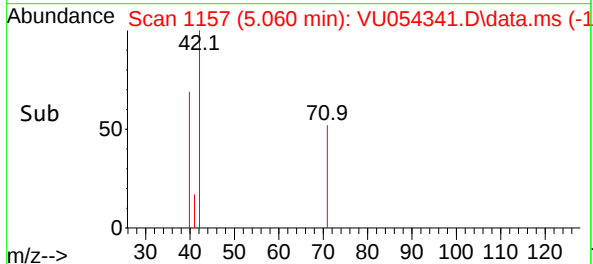
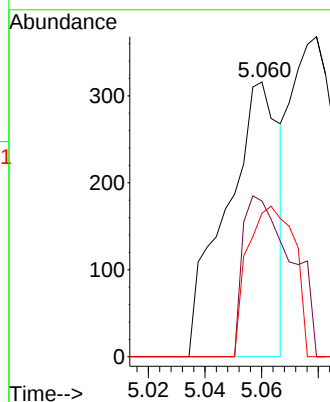
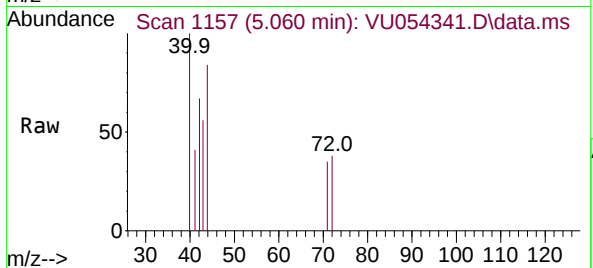
Tgt Ion: 42 Resp: 409

Ion Ratio Lower Upper

42 100

72 53.5 42.6 63.8

71 48.4 40.3 60.5



#31

Cyclohexane

Concen: 0.995 ug/l

RT: 5.362 min Scan# 1251

Delta R.T. -0.020 min

Lab File: VU054341.D

Acq: 31 May 2023 16:36

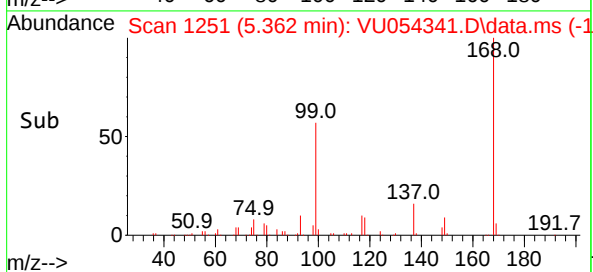
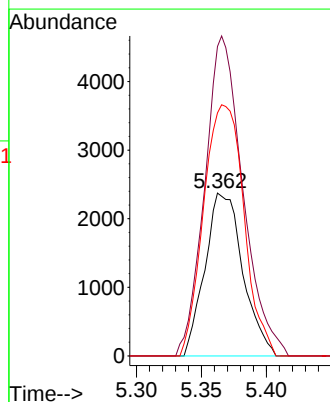
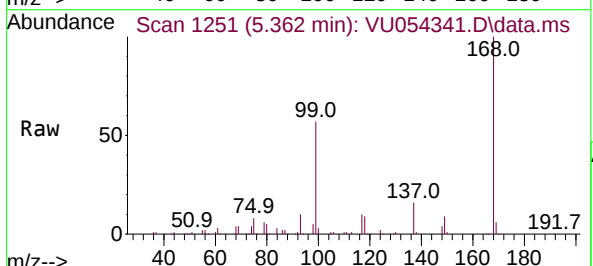
Tgt Ion: 56 Resp: 4803

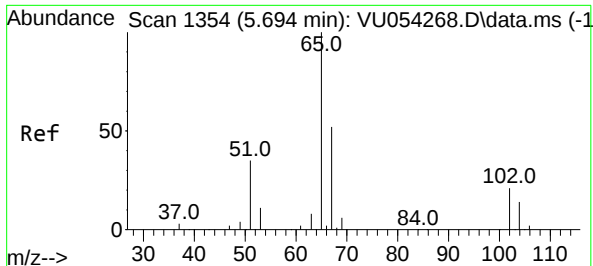
Ion Ratio Lower Upper

56 100

69 182.6 27.8 41.8#

84 149.2 74.2 111.4#





#33

1,2-Dichloroethane-d4

Concen: 52.611 ug/l

RT: 5.697 min Scan# 11

Delta R.T. 0.003 min

Lab File: VU054341.D

Acq: 31 May 2023 16:36

Instrument :

MSVOA_U

ClientSampleId :

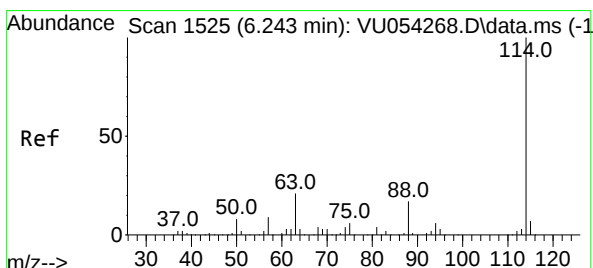
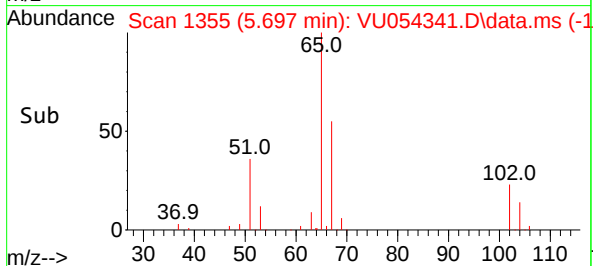
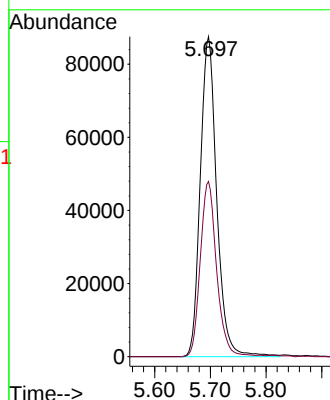
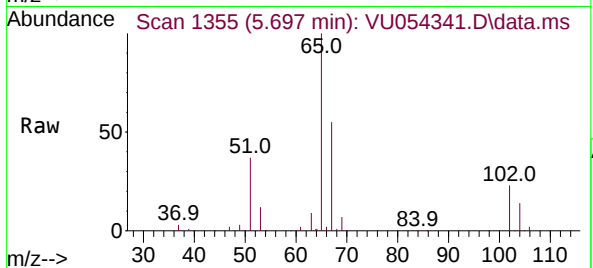
PB153123TB

Tgt Ion: 65 Resp: 179815

Ion Ratio Lower Upper

65 100

67 54.2 0.0 108.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.243 min Scan# 1525

Delta R.T. 0.000 min

Lab File: VU054341.D

Acq: 31 May 2023 16:36

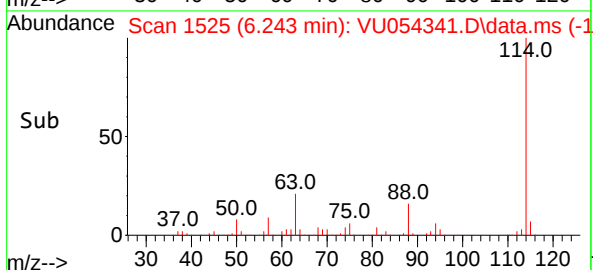
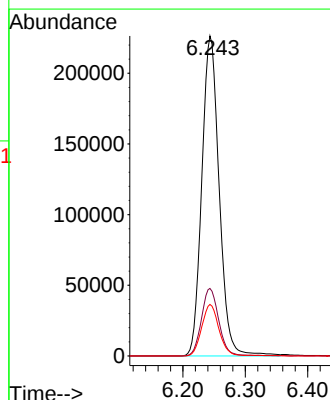
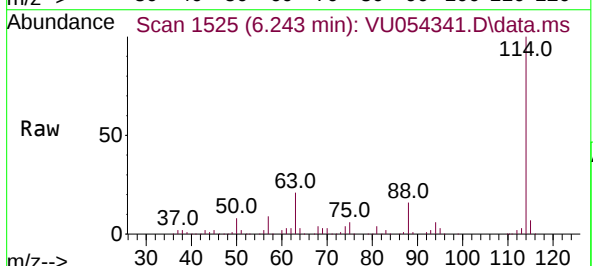
Tgt Ion: 114 Resp: 439021

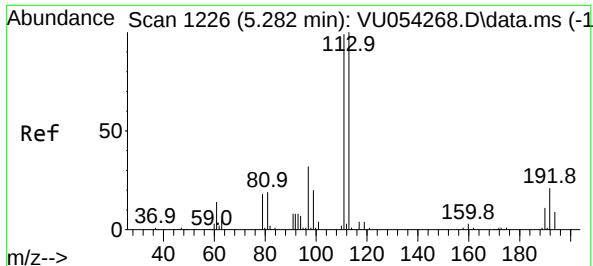
Ion Ratio Lower Upper

114 100

63 21.1 0.0 37.8

88 16.1 0.0 29.2

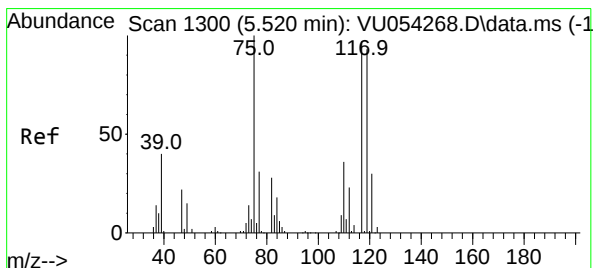
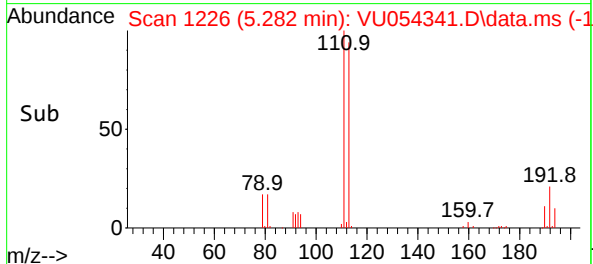
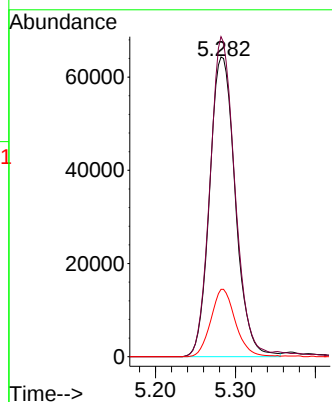
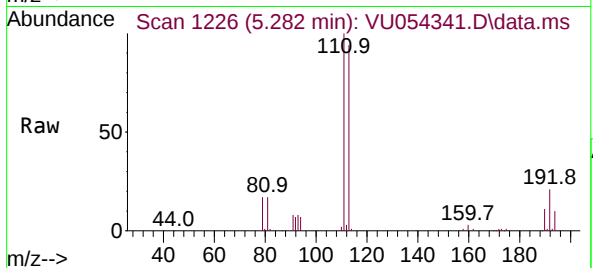




#35
Dibromofluoromethane
Concen: 50.683 ug/l
RT: 5.282 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU054341.D
Acq: 31 May 2023 16:36

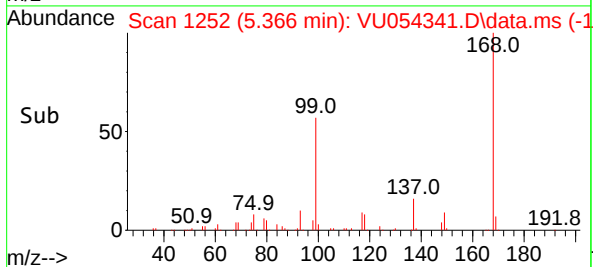
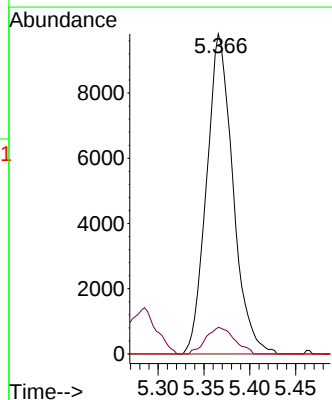
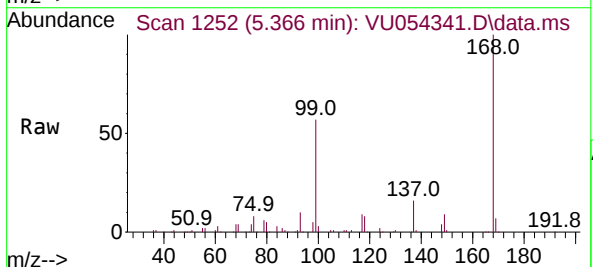
Instrument :
MSVOA_U
ClientSampleId :
PB153123TB

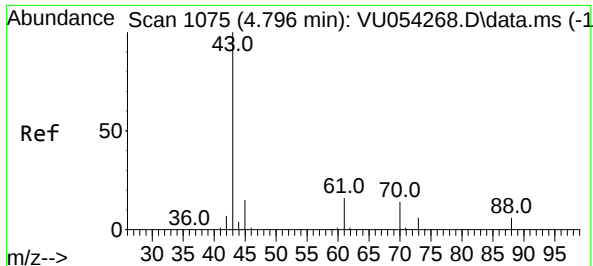
Tgt Ion:113 Resp: 143291
Ion Ratio Lower Upper
113 100
111 103.5 82.1 123.1
192 21.6 18.0 27.0



#36
1,1-Dichloropropene
Concen: 4.419 ug/l
RT: 5.366 min Scan# 1252
Delta R.T. -0.154 min
Lab File: VU054341.D
Acq: 31 May 2023 16:36

Tgt Ion: 75 Resp: 19625
Ion Ratio Lower Upper
75 100
110 9.0 18.4 55.2#
77 0.0 25.1 37.7#





#37

Ethyl Acetate

Concen: 8.308 ug/l

RT: 4.803 min Scan# 1

Delta R.T. 0.007 min

Lab File: VU054341.D

Acq: 31 May 2023 16:36

Instrument :

MSVOA_U

ClientSampleId :

PB153123TB

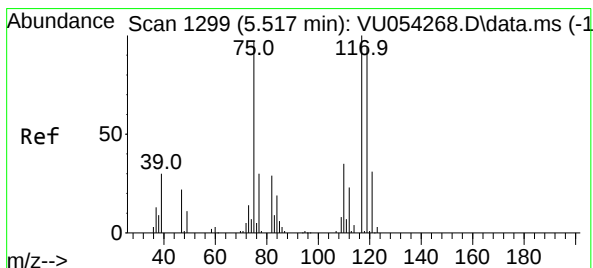
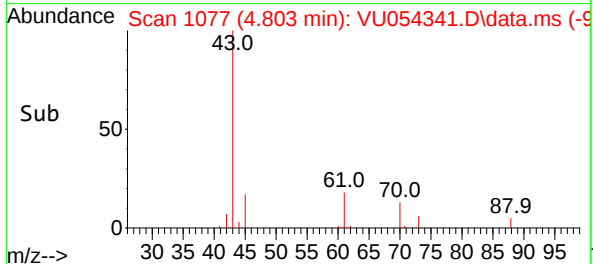
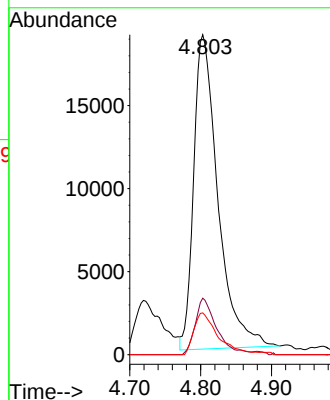
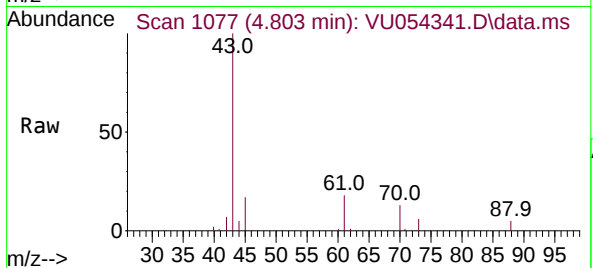
Tgt Ion: 43 Resp: 44963

Ion Ratio Lower Upper

43 100

61 15.8 9.5 14.3#

70 13.4 7.5 11.3#



#38

Carbon Tetrachloride

Concen: 5.289 ug/l

RT: 5.366 min Scan# 1252

Delta R.T. -0.151 min

Lab File: VU054341.D

Acq: 31 May 2023 16:36

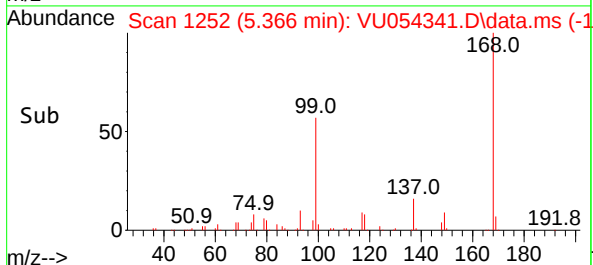
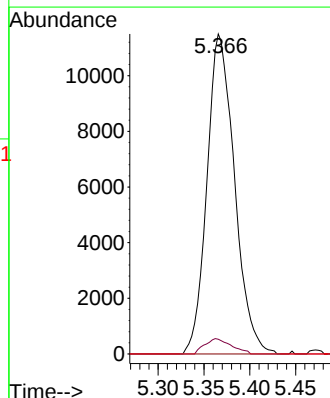
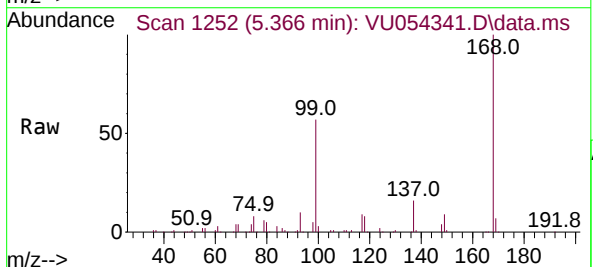
Tgt Ion: 117 Resp: 24040

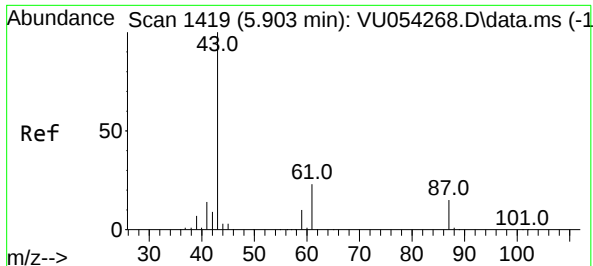
Ion Ratio Lower Upper

117 100

119 4.6 76.8 115.2#

121 0.0 24.7 37.1#





#43

Isopropyl Acetate

Concen: 22.338 ug/l

RT: 5.906 min Scan# 1419

Delta R.T. 0.003 min

Lab File: VU054341.D

Acq: 31 May 2023 16:36

Instrument :

MSVOA_U

ClientSampleId :

PB153123TB

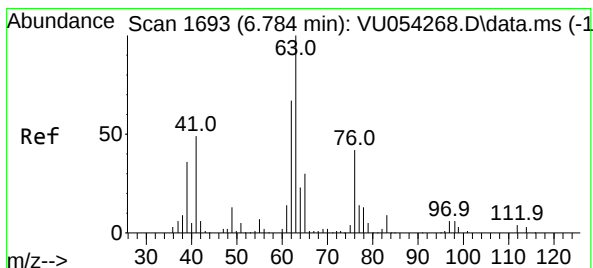
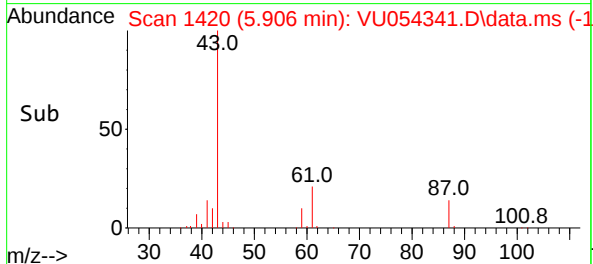
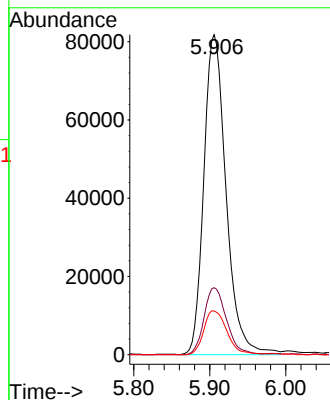
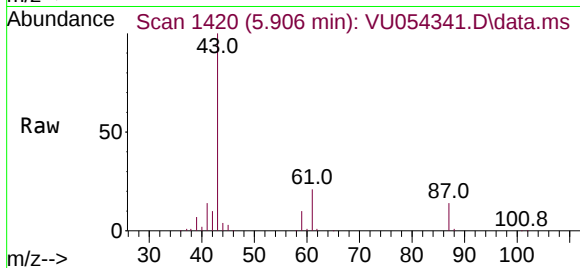
Tgt Ion: 43 Resp: 166752

Ion Ratio Lower Upper

43 100

61 21.1 17.4 26.0

87 14.3 12.6 18.8



#45

1,2-Dichloropropane

Concen: 0.716 ug/l

RT: 7.034 min Scan# 1771

Delta R.T. 0.250 min

Lab File: VU054341.D

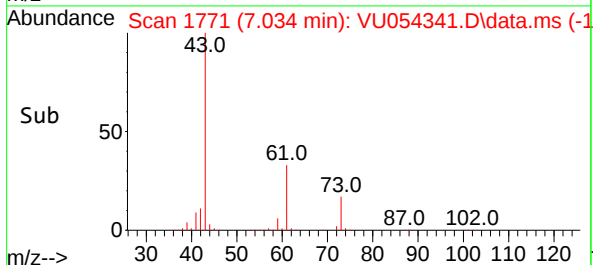
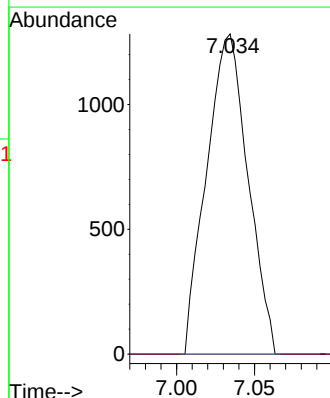
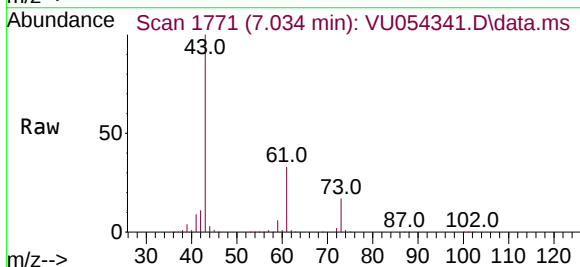
Acq: 31 May 2023 16:36

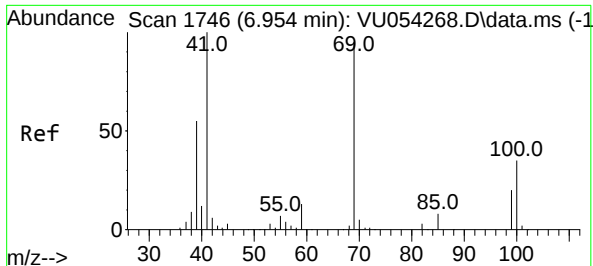
Tgt Ion: 63 Resp: 2366

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.4#





#48

Methyl methacrylate

Concen: 45.274 ug/l

RT: 7.031 min Scan# 1

Delta R.T. 0.077 min

Lab File: VU054341.D

Acq: 31 May 2023 16:36

Instrument :

MSVOA_U

ClientSampleId :

PB153123TB

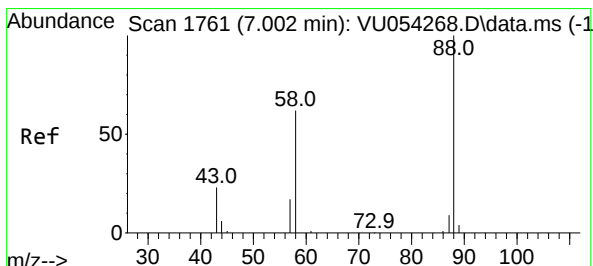
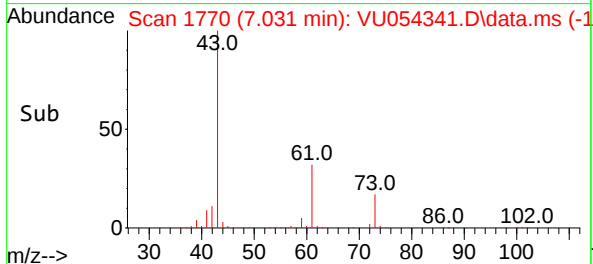
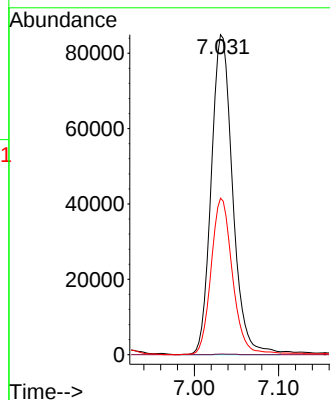
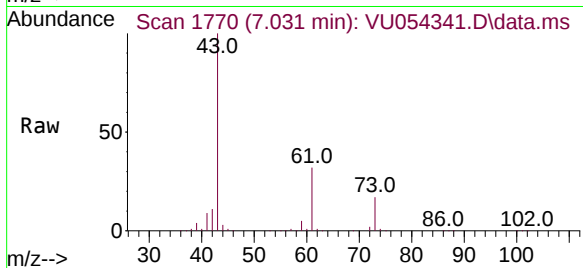
Tgt Ion: 41 Resp: 149877

Ion Ratio Lower Upper

41 100

69 0.1 79.8 119.6#

39 49.5 47.9 71.9



#49

1,4-Dioxane

Concen: 2.888 ug/l

RT: 7.034 min Scan# 1771

Delta R.T. 0.032 min

Lab File: VU054341.D

Acq: 31 May 2023 16:36

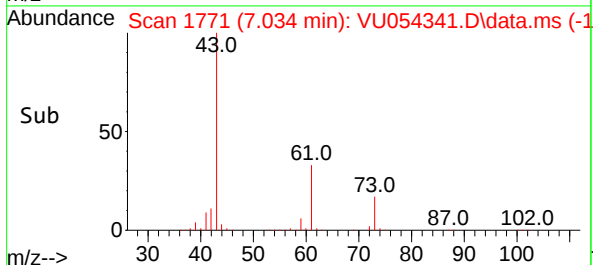
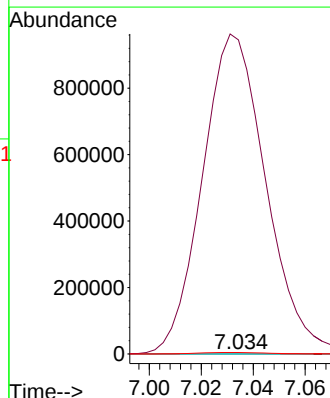
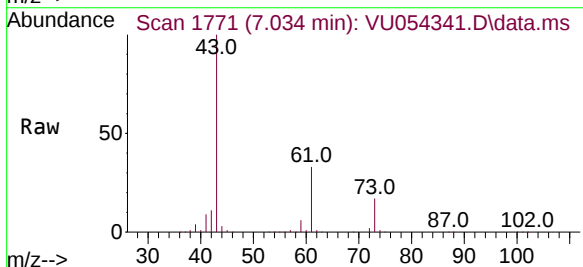
Tgt Ion: 88 Resp: 276

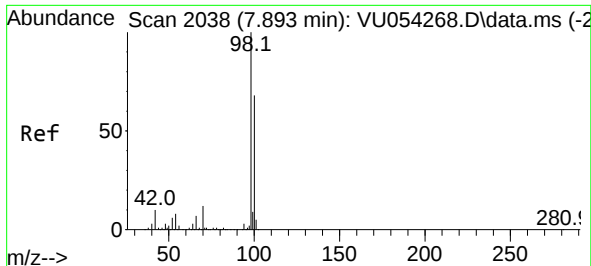
Ion Ratio Lower Upper

88 100

43 605875.7 0.0 0.0#

58 3085.1 15.4 23.0#

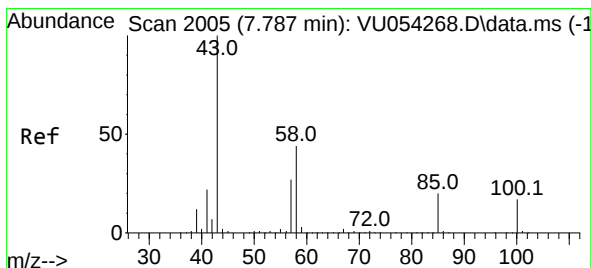
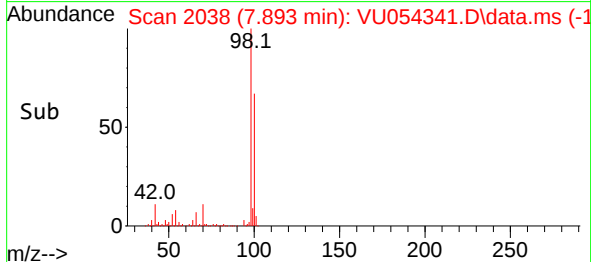
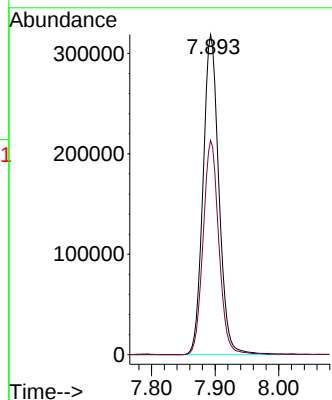
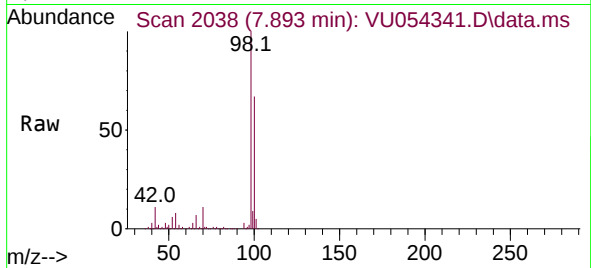




#50
Toluene-d8
Concen: 51.254 ug/l
RT: 7.893 min Scan# 2038
Delta R.T. -0.000 min
Lab File: VU054341.D
Acq: 31 May 2023 16:36

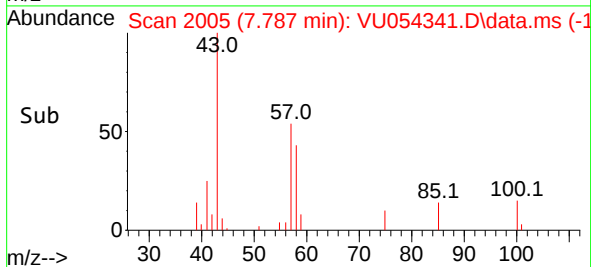
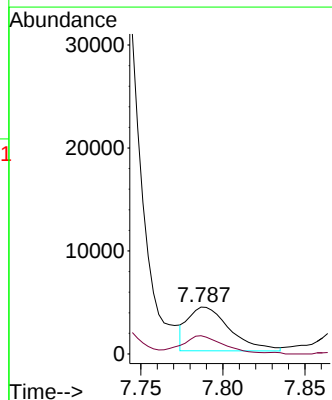
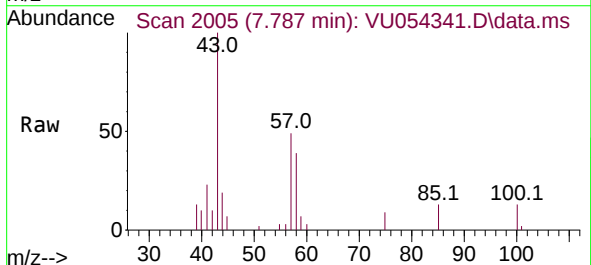
Instrument :
MSVOA_U
ClientSampleId :
PB153123TB

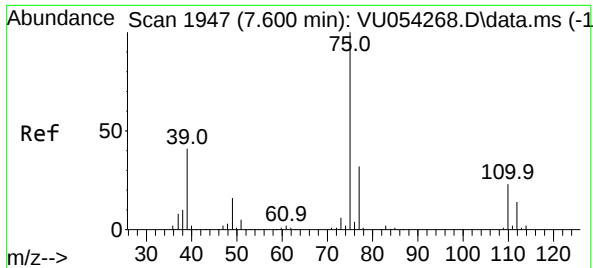
Tgt Ion: 98 Resp: 551176
Ion Ratio Lower Upper
98 100
100 66.5 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 1.516 ug/l
RT: 7.787 min Scan# 2005
Delta R.T. -0.000 min
Lab File: VU054341.D
Acq: 31 May 2023 16:36

Tgt Ion: 43 Resp: 7552
Ion Ratio Lower Upper
43 100
58 37.2 34.7 52.1

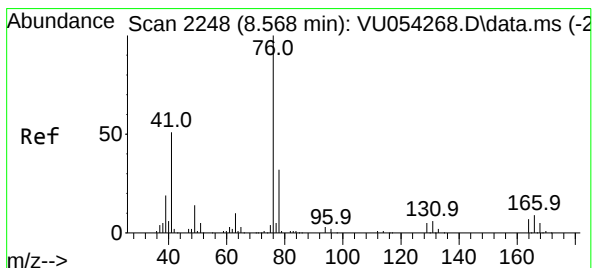
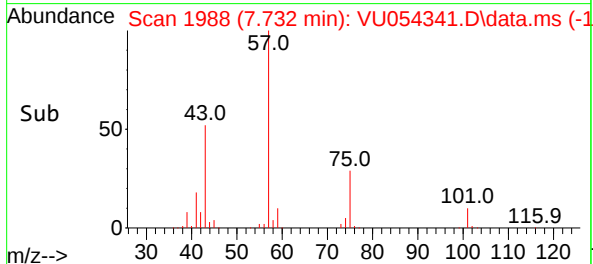
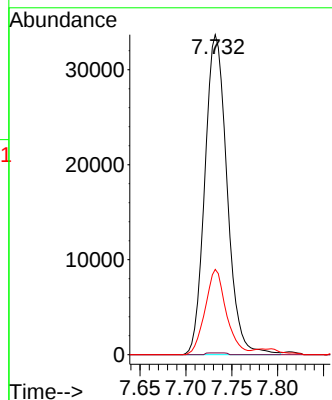
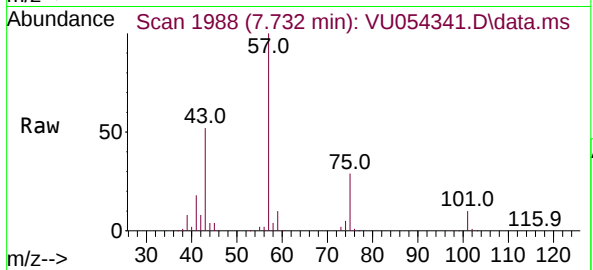




#54
cis-1,3-Dichloropropene
Concen: 10.452 ug/l
RT: 7.732 min Scan# 1947
Delta R.T. 0.132 min
Lab File: VU054341.D
Acq: 31 May 2023 16:36

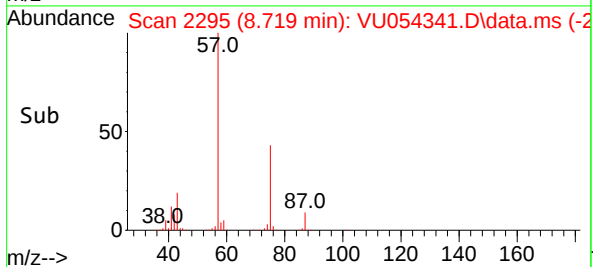
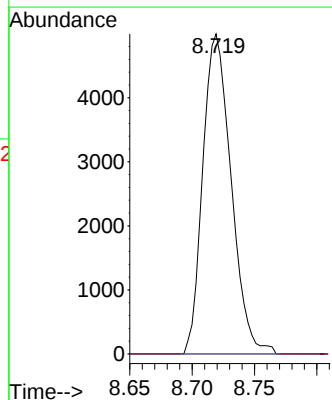
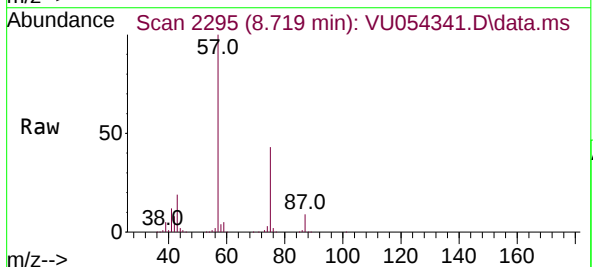
Instrument :
MSVOA_U
ClientSampleId :
PB153123TB

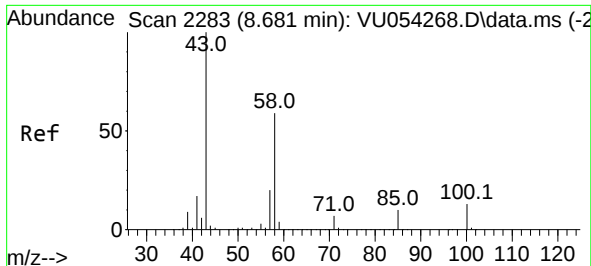
Tgt Ion	Ratio	Lower	Upper
75	100		
77	0.5	25.7	38.5#
39	26.7	33.0	49.6#



#57
1,3-Dichloropropane
Concen: 1.374 ug/l
RT: 8.719 min Scan# 2295
Delta R.T. 0.151 min
Lab File: VU054341.D
Acq: 31 May 2023 16:36

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

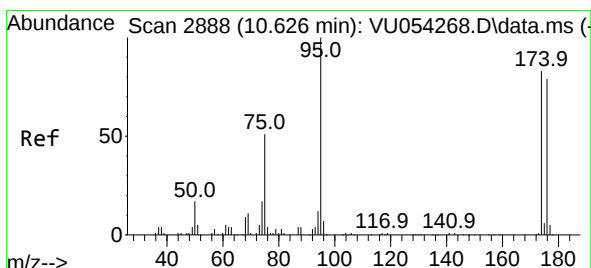
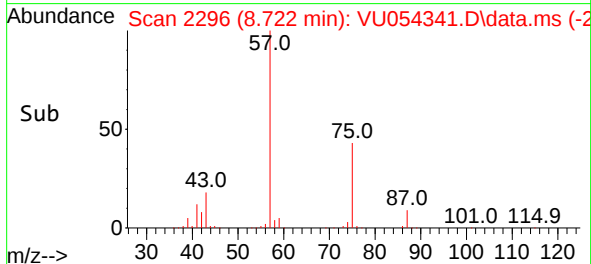
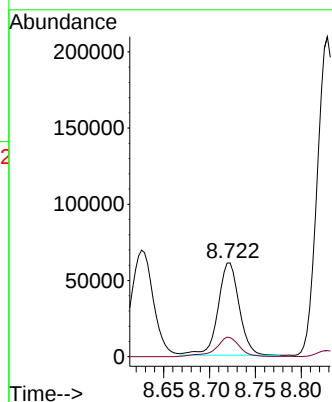
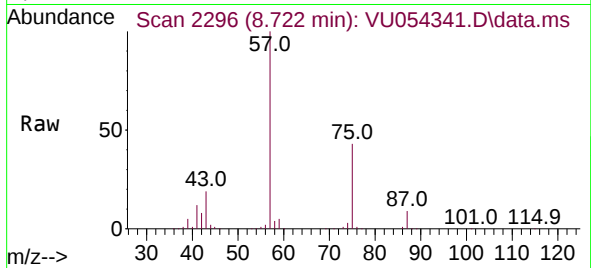




#59
2-Hexanone
Concen: 24.839 ug/l
RT: 8.722 min Scan# 21
Delta R.T. 0.041 min
Lab File: VU054341.D
Acq: 31 May 2023 16:36

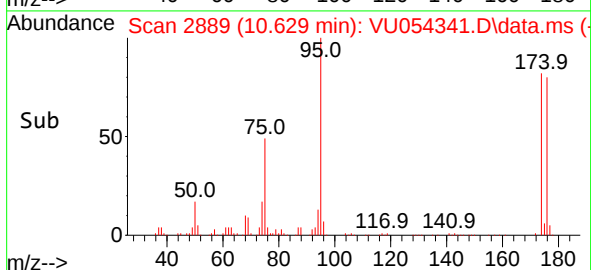
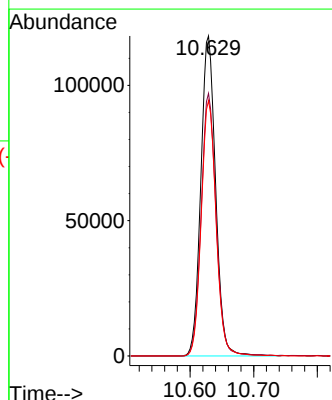
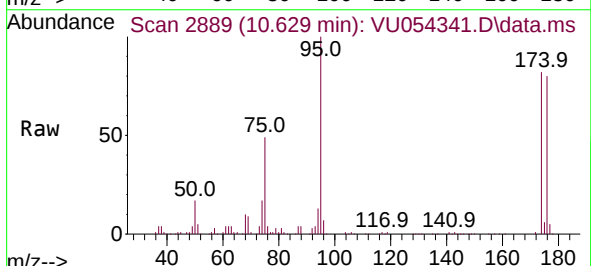
Instrument :
MSVOA_U
ClientSampleId :
PB153123TB

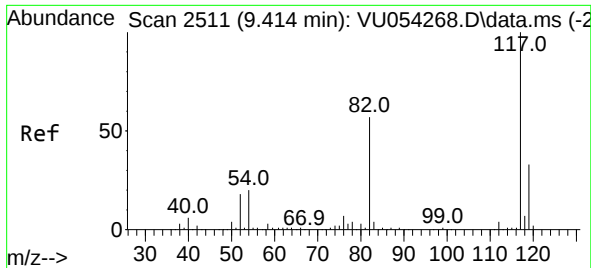
Tgt Ion: 43 Resp: 97745
Ion Ratio Lower Upper
43 100
58 23.8 30.3 90.8#



#62
4-Bromofluorobenzene
Concen: 45.838 ug/l
RT: 10.629 min Scan# 2889
Delta R.T. 0.003 min
Lab File: VU054341.D
Acq: 31 May 2023 16:36

Tgt Ion: 95 Resp: 191132
Ion Ratio Lower Upper
95 100
174 82.4 0.0 182.0
176 79.9 0.0 177.8

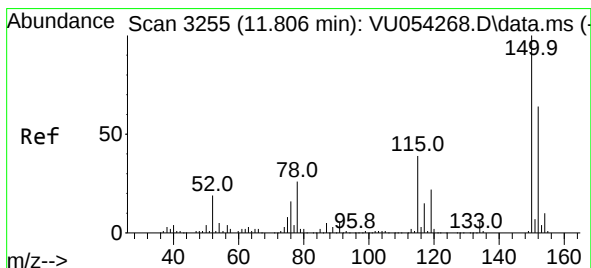
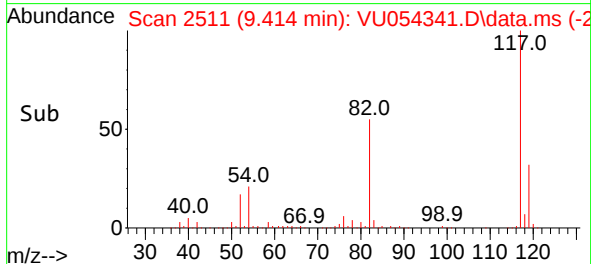
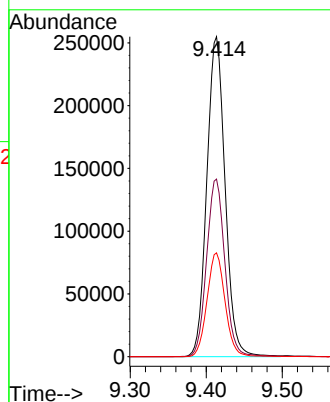
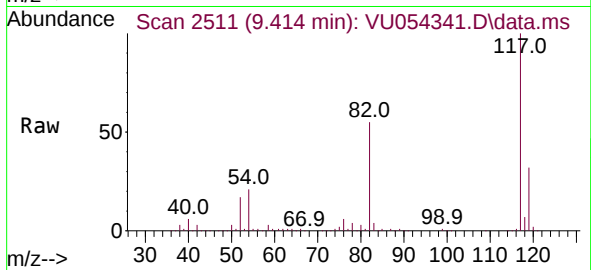




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.414 min Scan# 2511
Delta R.T. -0.000 min
Lab File: VU054341.D
Acq: 31 May 2023 16:36

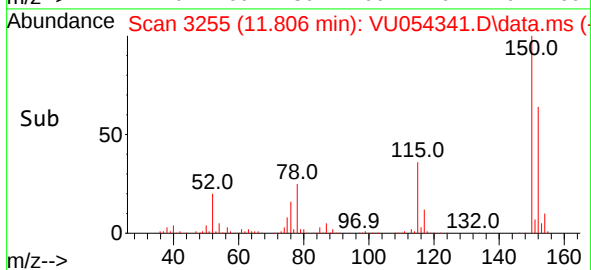
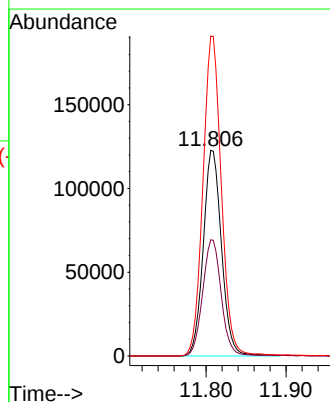
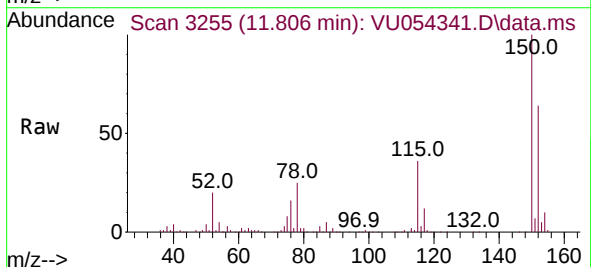
Instrument :
MSVOA_U
ClientSampleId :
PB153123TB

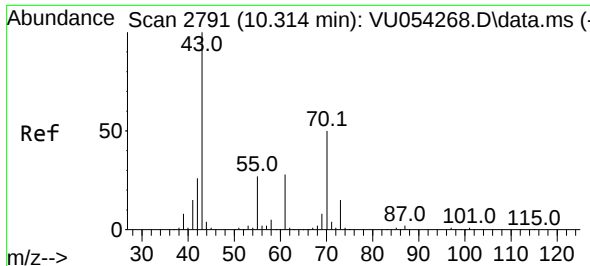
Tgt Ion:117 Resp: 426002
Ion Ratio Lower Upper
117 100
82 55.4 41.7 62.5
119 32.5 25.7 38.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.806 min Scan# 3255
Delta R.T. -0.000 min
Lab File: VU054341.D
Acq: 31 May 2023 16:36

Tgt Ion:152 Resp: 195181
Ion Ratio Lower Upper
152 100
115 57.5 37.0 110.9
150 155.7 0.0 342.2

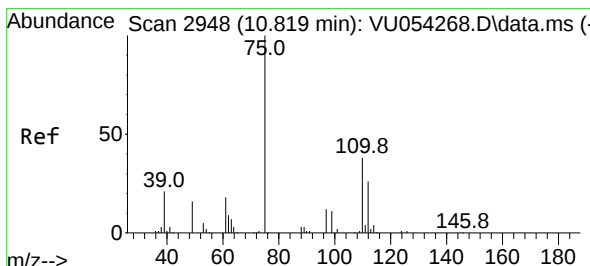
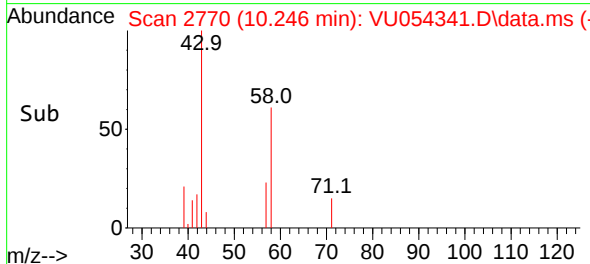
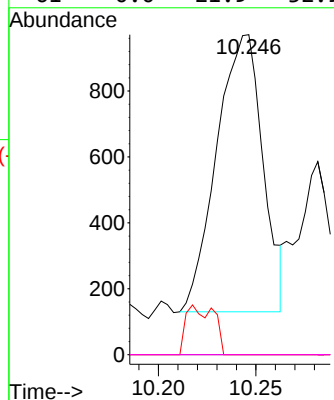
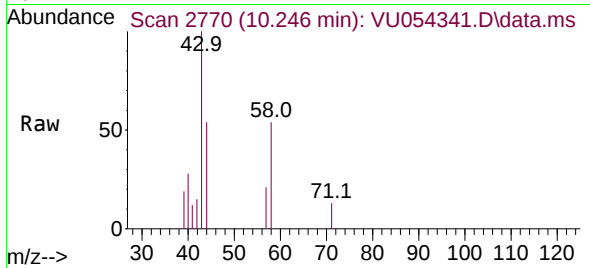




#74
N-amy1 acetate
Concen: 0.270 ug/l
RT: 10.246 min Scan# 21
Delta R.T. -0.068 min
Lab File: VU054341.D
Acq: 31 May 2023 16:36

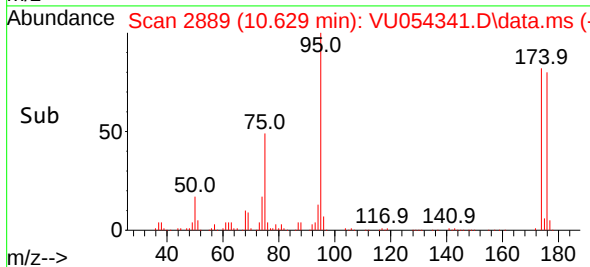
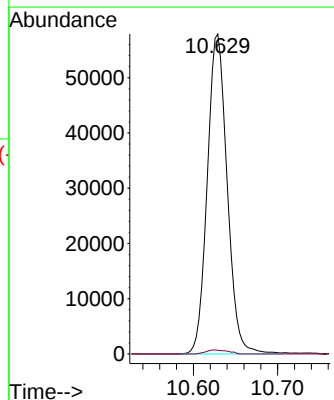
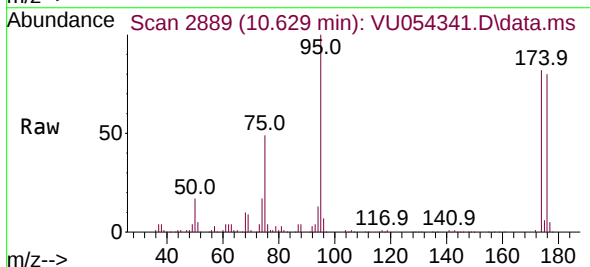
Instrument :
MSVOA_U
ClientSampleId :
PB153123TB

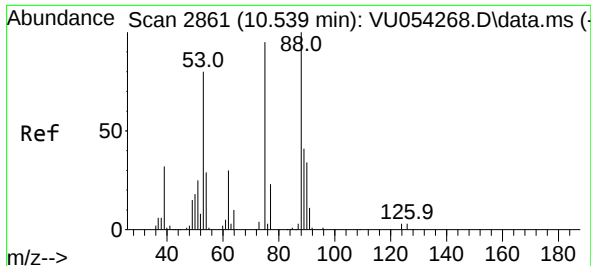
Tgt Ion: 43 Resp: 1385
Ion Ratio Lower Upper
43 100
70 0.0 38.7 58.1#
55 0.0 21.8 32.8#
61 0.0 21.9 32.9#



#76
1,2,3-Trichloropropane
Concen: 16.690 ug/l
RT: 10.629 min Scan# 2889
Delta R.T. -0.190 min
Lab File: VU054341.D
Acq: 31 May 2023 16:36

Tgt Ion: 75 Resp: 95075
Ion Ratio Lower Upper
75 100
77 1.4 15.8 47.3#

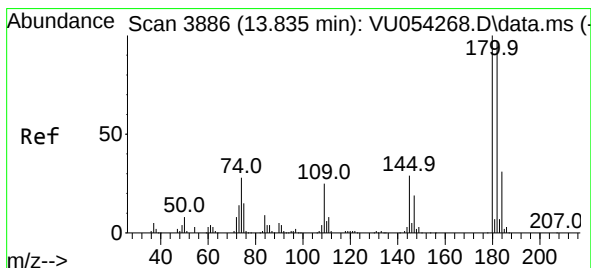
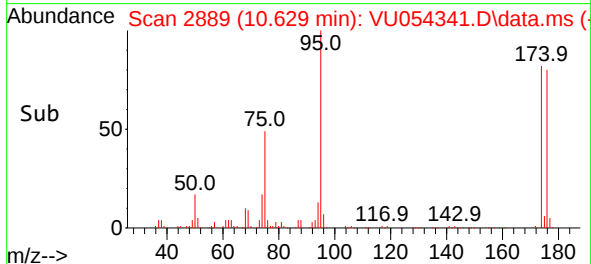
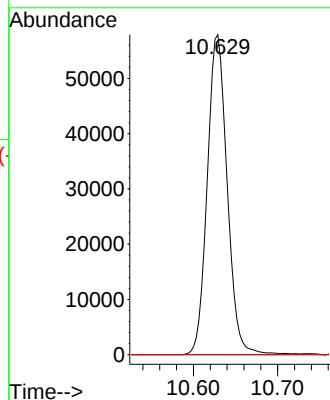
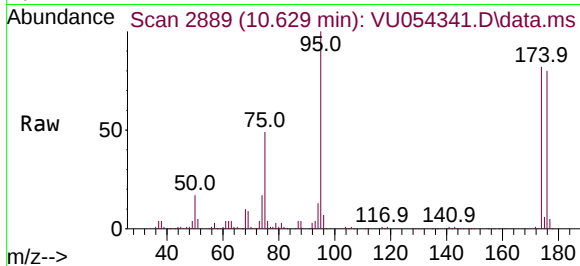




#81
trans-1,4-Dichloro-2-butene
Concen: 63.554 ug/l
RT: 10.629 min Scan# 21
Delta R.T. 0.090 min
Lab File: VU054341.D
Acq: 31 May 2023 16:36

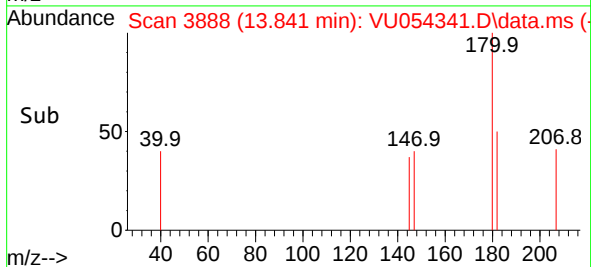
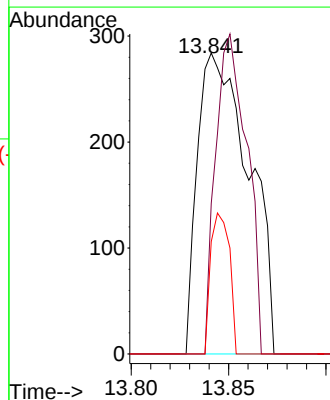
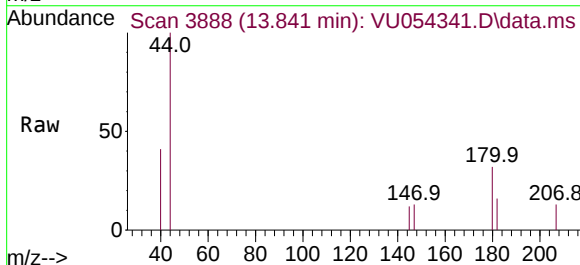
Instrument :
MSVOA_U
ClientSampleId :
PB153123TB

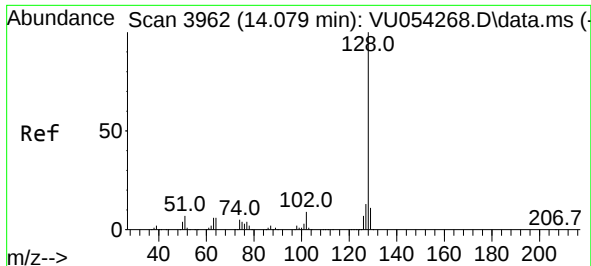
Tgt Ion: 75 Resp: 95075
Ion Ratio Lower Upper
75 100
53 0.0 69.2 103.8#
89 0.0 37.0 55.6#



#93
1,2,4-Trichlorobenzene
Concen: 1.755 ug/l
RT: 13.841 min Scan# 3888
Delta R.T. 0.006 min
Lab File: VU054341.D
Acq: 31 May 2023 16:36

Tgt Ion:180 Resp: 520
Ion Ratio Lower Upper
180 100
182 64.6 47.9 143.6
145 17.1 14.0 41.9

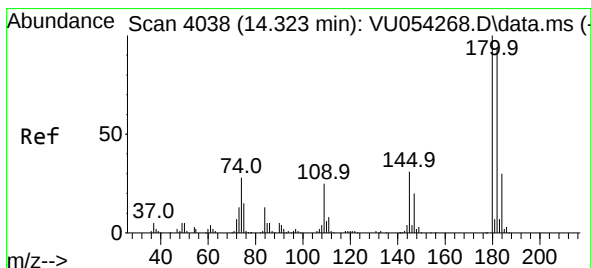
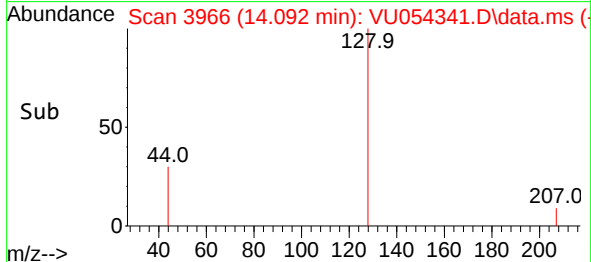
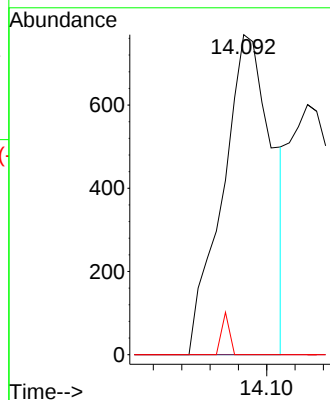
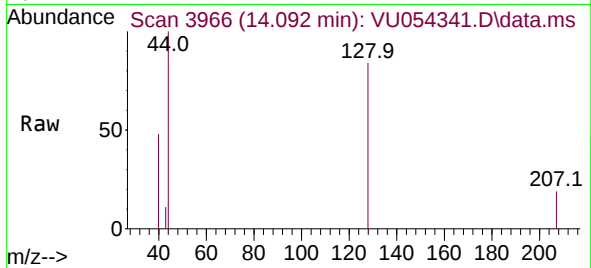




#95
Naphthalene
Concen: 2.053 ug/l
RT: 14.092 min Scan# 3966
Delta R.T. 0.013 min
Lab File: VU054341.D
Acq: 31 May 2023 16:36

Instrument :
MSVOA_U
ClientSampleId :
PB153123TB

Tgt Ion:128 Resp: 935
Ion Ratio Lower Upper
128 100
127 0.0 10.3 15.5#
129 2.1 8.6 13.0#



#96
1,2,3-Trichlorobenzene
Concen: 1.360 ug/l
RT: 14.330 min Scan# 4040
Delta R.T. 0.007 min
Lab File: VU054341.D
Acq: 31 May 2023 16:36

Tgt Ion:180 Resp: 481
Ion Ratio Lower Upper
180 100
182 96.3 48.4 145.0
145 0.0 14.8 44.4#

