

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU053123\
 Data File : VU054345.D
 Acq On : 31 May 2023 18:11
 Operator : JC/MD
 Sample : PB153123ZHE#04
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PB153123ZHE#04

Quant Time: Jun 01 05:24:19 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)

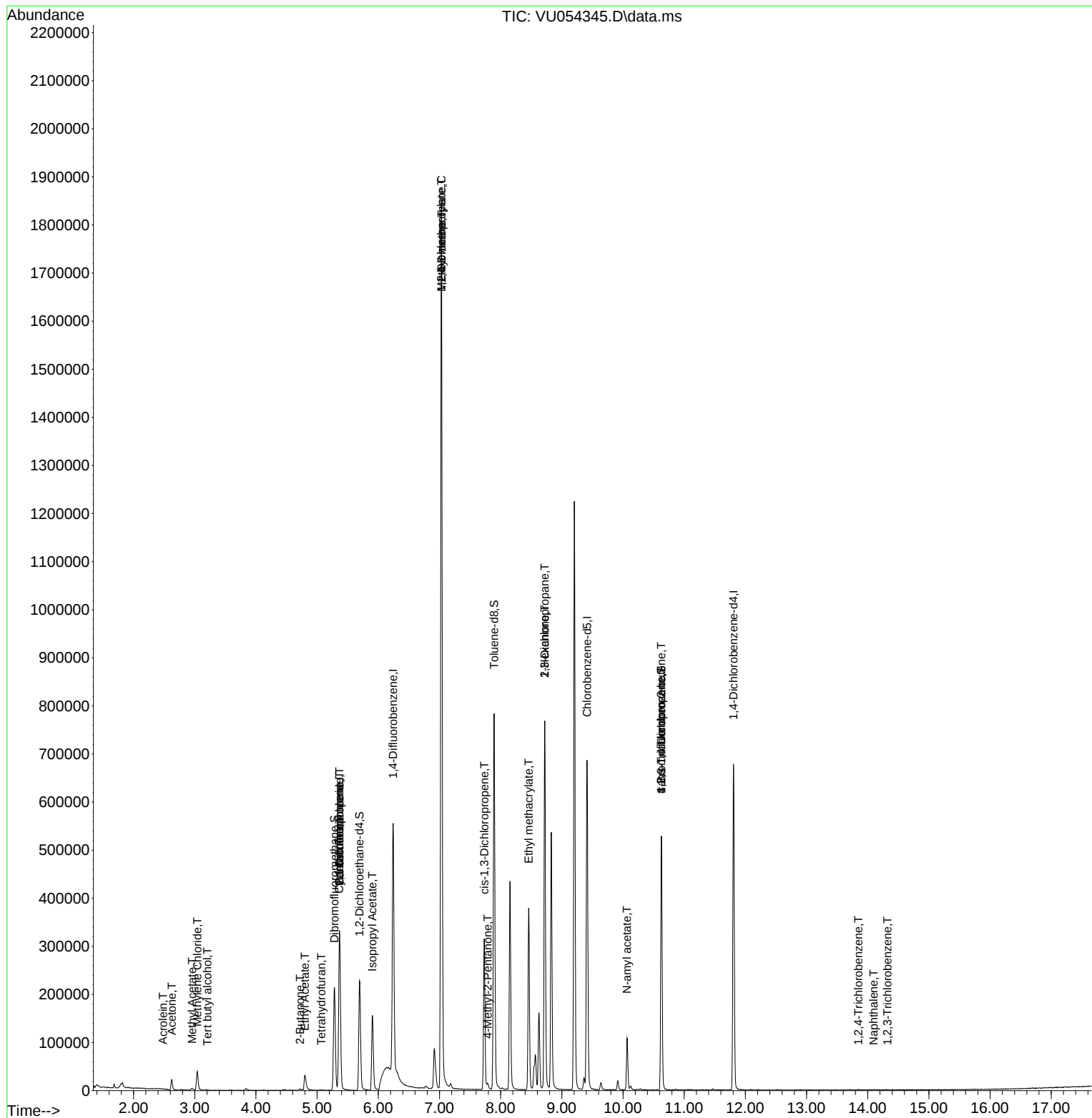
Internal Standards						
1) Pentafluorobenzene	5.366	168	241648	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.244	114	420448	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.414	117	398957	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.806	152	186118	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.694	65	169370	53.467	ug/l	0.00
Spiked Amount 50.000	Range 78	- 117	Recovery	=	106.940%	
35) Dibromofluoromethane	5.282	113	140983	52.070	ug/l	0.00
Spiked Amount 50.000	Range 75	- 124	Recovery	=	104.140%	
50) Toluene-d8	7.893	98	520648	50.554	ug/l	0.00
Spiked Amount 50.000	Range 92	- 112	Recovery	=	101.100%	
62) 4-Bromofluorobenzene	10.626	95	177357	44.414	ug/l	0.00
Spiked Amount 50.000	Range 83	- 123	Recovery	=	88.820%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	3.205	59	187	0.219	ug/l #	37
13) Acrolein	2.482	56	187	0.210	ug/l #	14
16) Acetone	2.623	43	23174	12.763	ug/l	99
18) Methyl Acetate	2.954	43	6257	0.944	ug/l #	80
20) Methylene Chloride	3.041	84	20864	6.369	ug/l	99
25) 2-Butanone	4.723	43	5075	2.111	ug/l #	85
29) Tetrahydrofuran	5.070	42	833	0.551	ug/l #	35
31) Cyclohexane	5.363	56	5001	1.118	ug/l #	7
36) 1,1-Dichloropropene	5.366	75	18052	4.245	ug/l #	49
37) Ethyl Acetate	4.800	43	43714	8.434	ug/l #	92
38) Carbon Tetrachloride	5.366	117	22970	5.277	ug/l #	16
43) Isopropyl Acetate	5.903	43	166512	23.292	ug/l	98
45) 1,2-Dichloropropane	7.031	63	2292	0.724	ug/l #	43
48) Methyl methacrylate	7.031	41	145938	46.032	ug/l #	33
49) 1,4-Dioxane	7.038	88	194	2.120	ug/l #	1
51) 4-Methyl-2-Pentanone	7.787	43	7581	1.589	ug/l	96
54) cis-1,3-Dichloropropene	7.732	75	59585	11.456	ug/l #	63
56) Ethyl methacrylate	8.459	69	2025	0.424	ug/l #	1
57) 1,3-Dichloropropane	8.719	76	7407	1.342	ug/l #	42
59) 2-Hexanone	8.719	43	101720	26.991	ug/l #	50
74) N-amyl acetate	10.067	43	34573	7.064	ug/l #	48
76) 1,2,3-Trichloropropane	10.626	75	87663	16.138	ug/l #	45
81) trans-1,4-Dichloro-2-b...	10.626	75	87663	61.453	ug/l #	15
93) 1,2,4-Trichlorobenzene	13.845	180	315	1.715	ug/l #	75
95) Naphthalene	14.095	128	549	2.030	ug/l #	69
96) 1,2,3-Trichlorobenzene	14.324	180	119	1.282	ug/l #	12

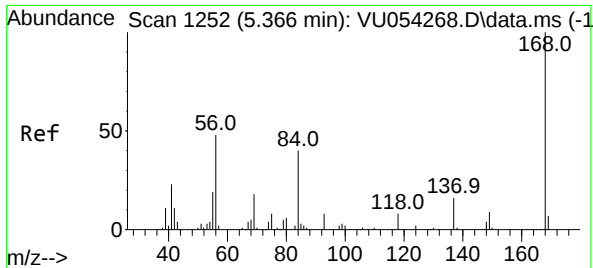
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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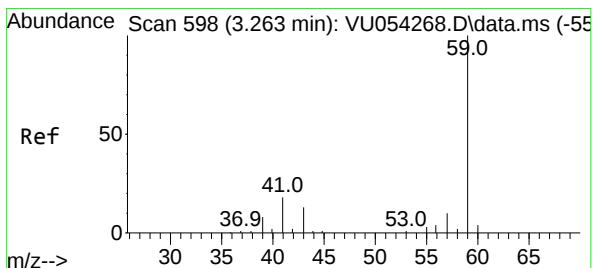
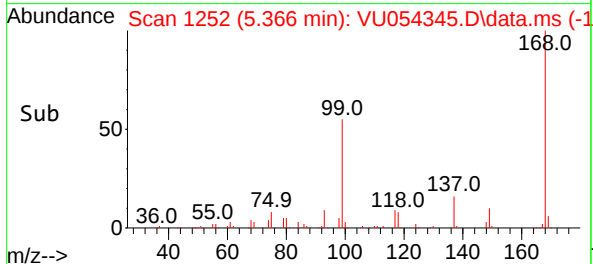
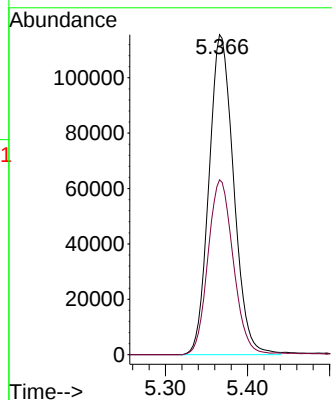
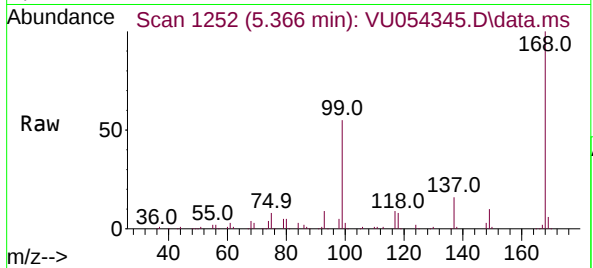




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.366 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU054345.D
Acq: 31 May 2023 18:11

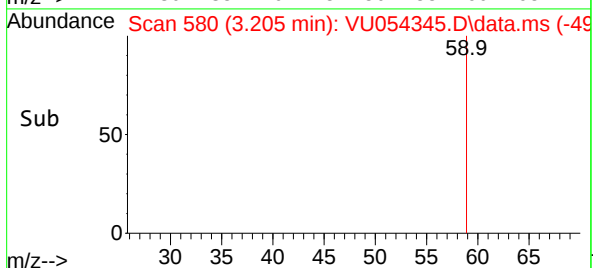
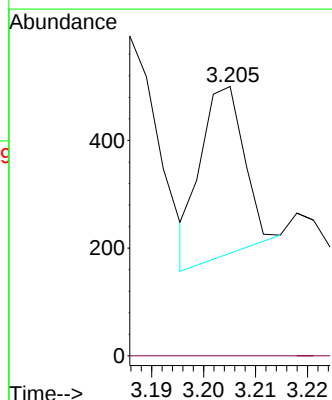
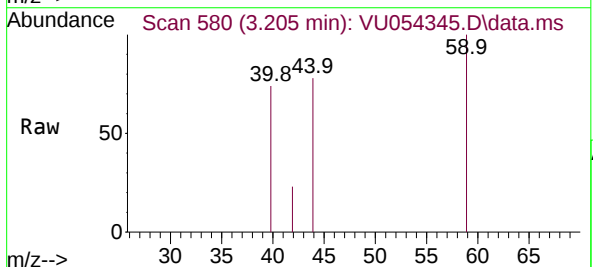
Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#04

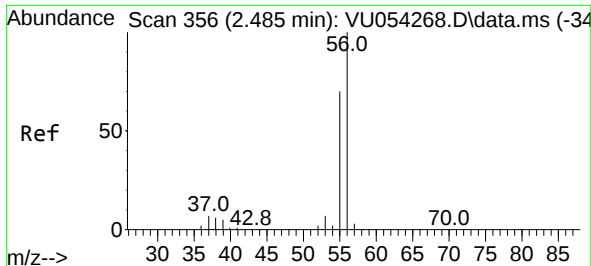
Tgt Ion:168 Resp: 241648
Ion Ratio Lower Upper
168 100
99 54.6 39.3 58.9



#11
Tert butyl alcohol
Concen: 0.219 ug/l
RT: 3.205 min Scan# 580
Delta R.T. -0.038 min
Lab File: VU054345.D
Acq: 31 May 2023 18:11

Tgt Ion: 59 Resp: 187
Ion Ratio Lower Upper
59 100
57 0.0 30.6 45.8#





#13

Acrolein

Concen: 0.210 ug/l

RT: 2.482 min Scan# 31

Delta R.T. -0.003 min

Lab File: VU054345.D

Acq: 31 May 2023 18:11

Instrument :

MSVOA_U

ClientSampleId :

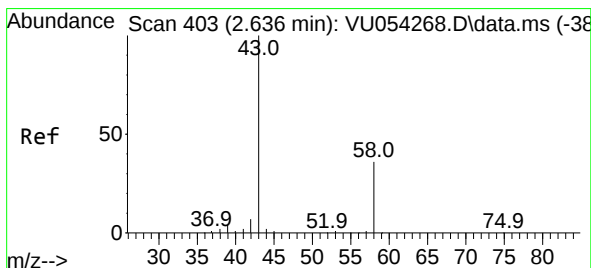
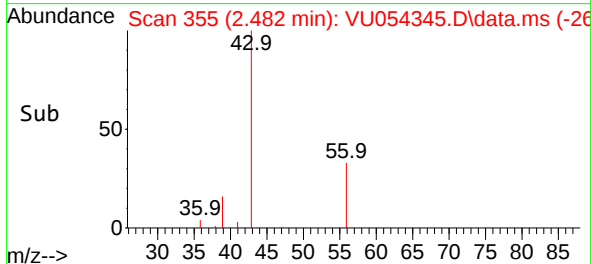
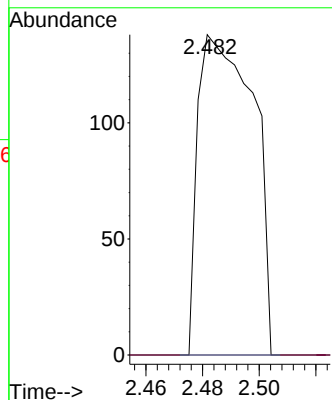
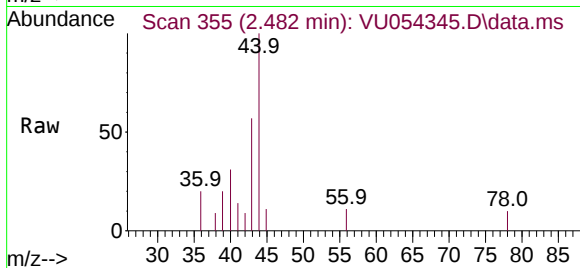
PB153123ZHE#04

Tgt Ion: 56 Resp: 187

Ion Ratio Lower Upper

56 100

55 0.0 56.6 85.0#



#16

Acetone

Concen: 12.763 ug/l

RT: 2.623 min Scan# 399

Delta R.T. -0.013 min

Lab File: VU054345.D

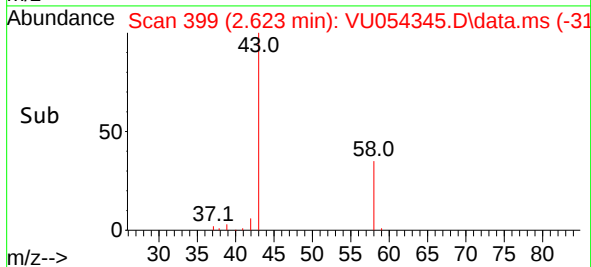
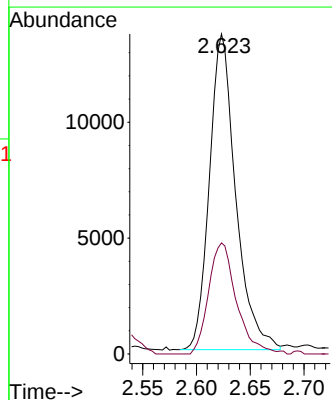
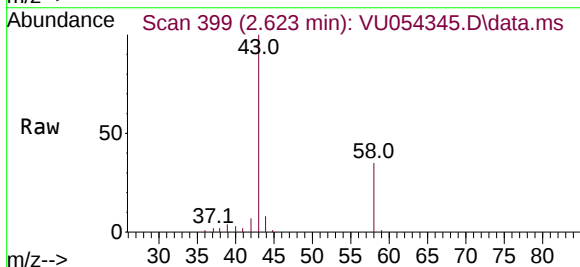
Acq: 31 May 2023 18:11

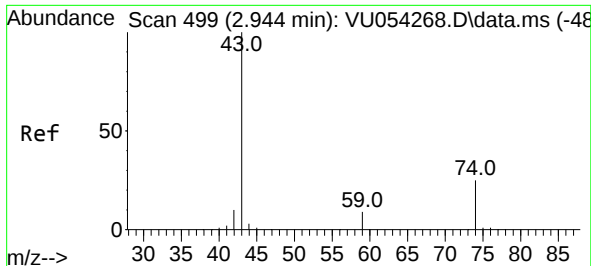
Tgt Ion: 43 Resp: 23174

Ion Ratio Lower Upper

43 100

58 35.2 27.5 41.3

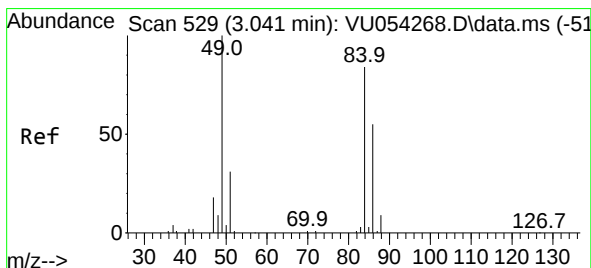
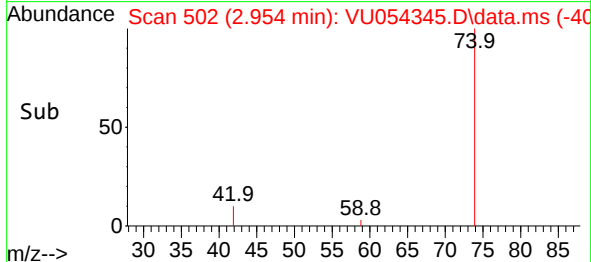
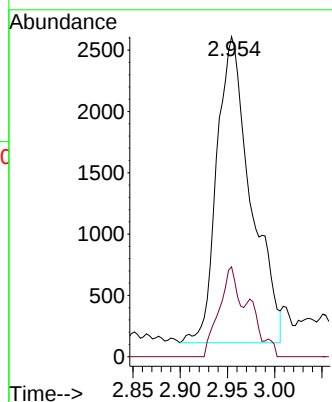
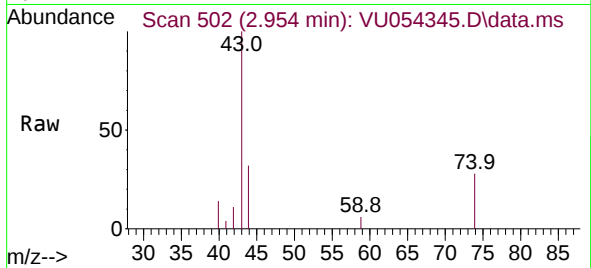




#18
Methyl Acetate
Concen: 0.944 ug/l
RT: 2.954 min Scan# 502
Delta R.T. 0.010 min
Lab File: VU054345.D
Acq: 31 May 2023 18:11

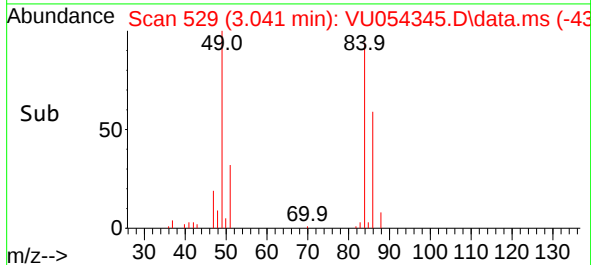
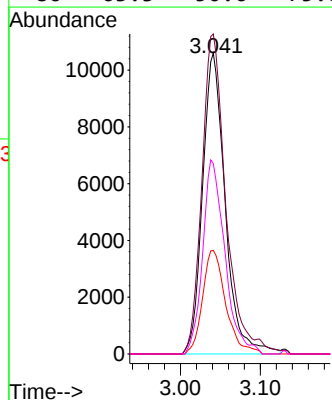
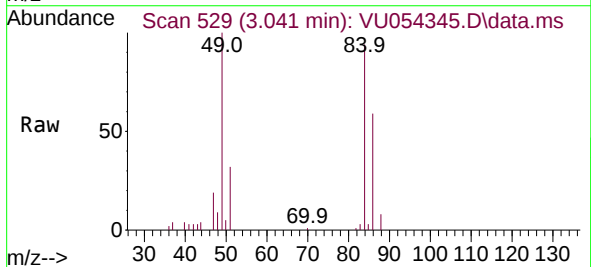
Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#04

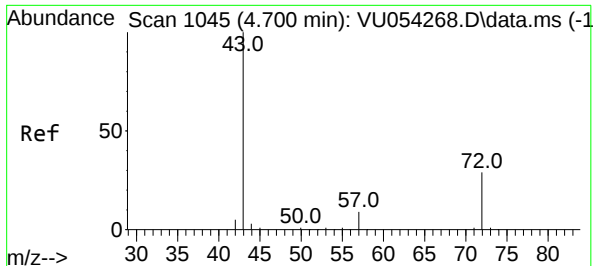
Tgt Ion: 43 Resp: 6257
Ion Ratio Lower Upper
43 100
74 17.5 22.5 33.7#



#20
Methylene Chloride
Concen: 6.369 ug/l
RT: 3.041 min Scan# 529
Delta R.T. 0.000 min
Lab File: VU054345.D
Acq: 31 May 2023 18:11

Tgt Ion: 84 Resp: 20864
Ion Ratio Lower Upper
84 100
49 106.4 86.6 129.8
51 34.4 26.6 40.0
86 63.3 50.6 75.8





#25

2-Butanone

Concen: 2.111 ug/l

RT: 4.723 min Scan# 110

Delta R.T. 0.023 min

Lab File: VU054345.D

Acq: 31 May 2023 18:11

Instrument :

MSVOA_U

ClientSampleId :

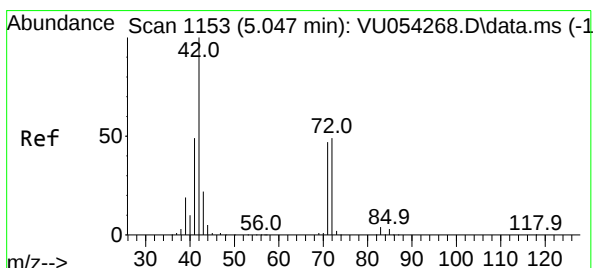
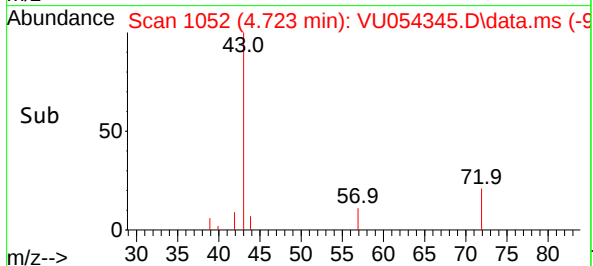
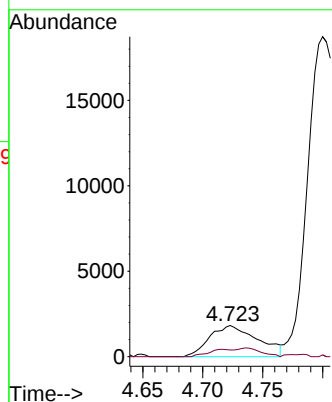
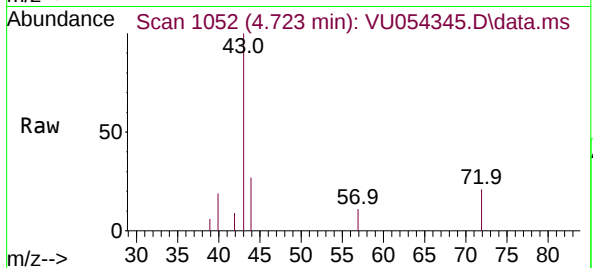
PB153123ZHE#04

Tgt Ion: 43 Resp: 5075

Ion Ratio Lower Upper

43 100

72 21.4 23.8 35.6#



#29

Tetrahydrofuran

Concen: 0.551 ug/l

RT: 5.070 min Scan# 1160

Delta R.T. 0.023 min

Lab File: VU054345.D

Acq: 31 May 2023 18:11

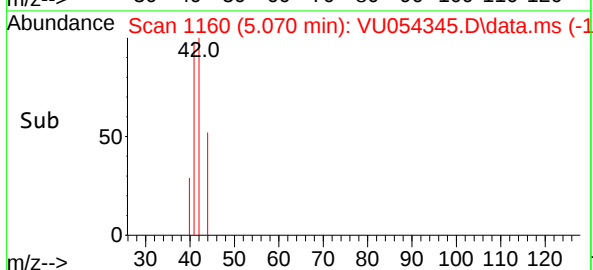
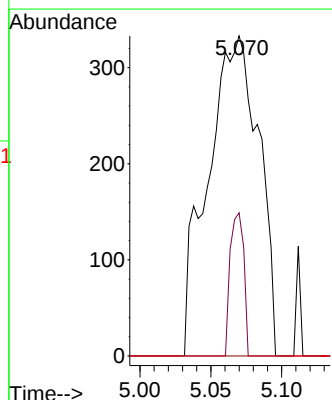
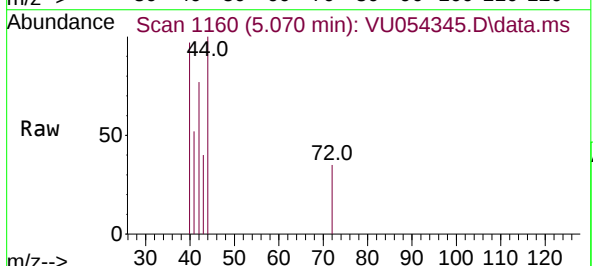
Tgt Ion: 42 Resp: 833

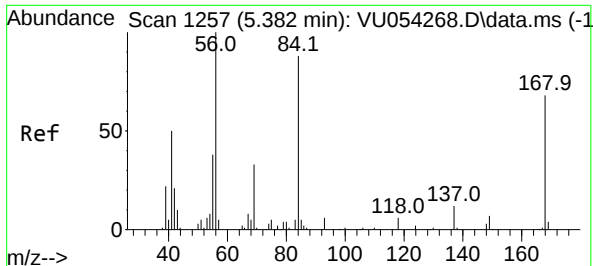
Ion Ratio Lower Upper

42 100

72 11.9 42.6 63.8#

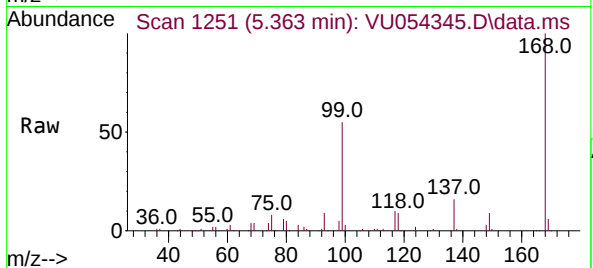
71 0.0 40.3 60.5#



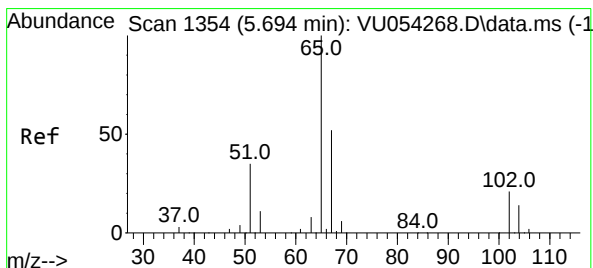
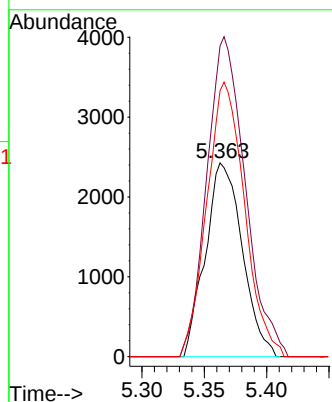
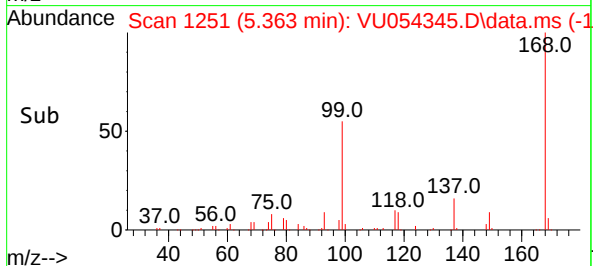


#31
Cyclohexane
Concen: 1.118 ug/l
RT: 5.363 min Scan# 1251
Delta R.T. -0.019 min
Lab File: VU054345.D
Acq: 31 May 2023 18:11

Instrument :
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PB153123ZHE#04

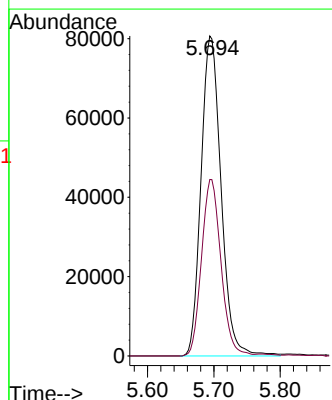
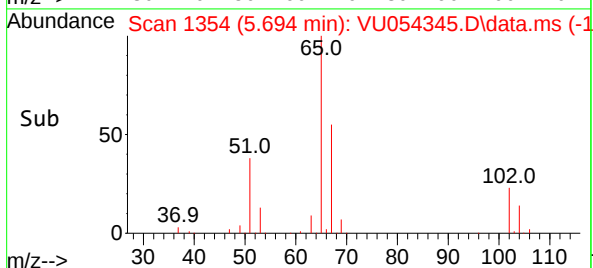
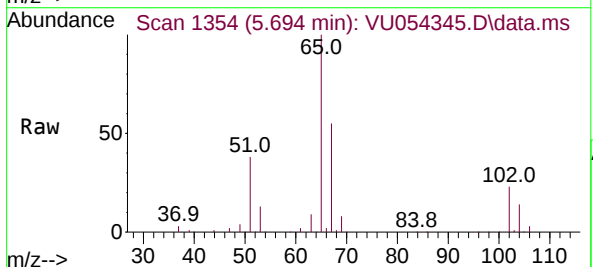


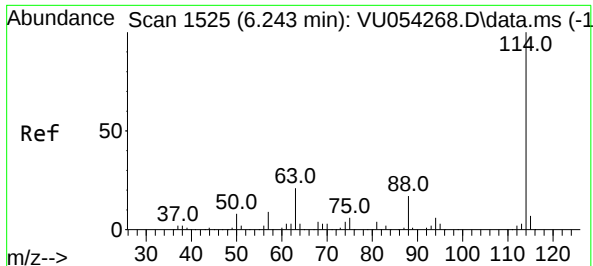
Tgt Ion: 56 Resp: 5001
Ion Ratio Lower Upper
56 100
69 160.4 27.8 41.8#
84 137.2 74.2 111.4#



#33
1,2-Dichloroethane-d4
Concen: 53.467 ug/l
RT: 5.694 min Scan# 1354
Delta R.T. -0.000 min
Lab File: VU054345.D
Acq: 31 May 2023 18:11

Tgt Ion: 65 Resp: 169370
Ion Ratio Lower Upper
65 100
67 53.5 0.0 108.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.244 min Scan# 11

Delta R.T. 0.001 min

Lab File: VU054345.D

Acq: 31 May 2023 18:11

Instrument :

MSVOA_U

ClientSampleId :

PB153123ZHE#04

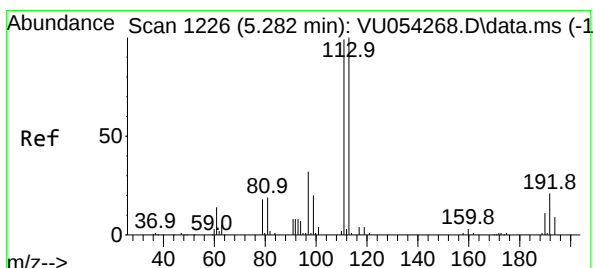
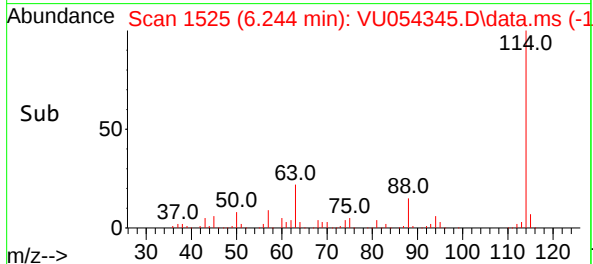
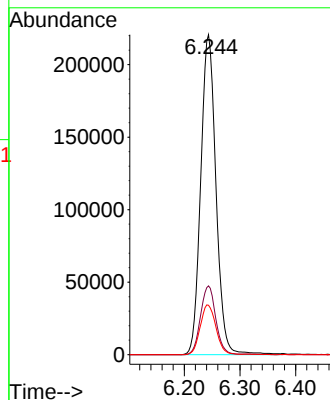
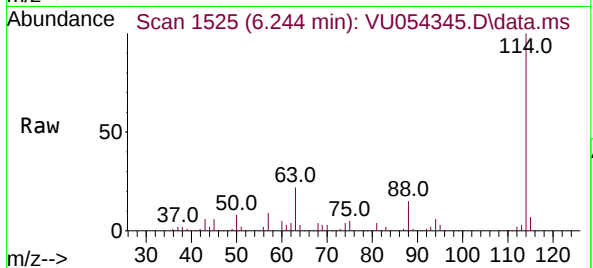
Tgt Ion:114 Resp: 420448

Ion Ratio Lower Upper

114 100

63 21.5 0.0 37.8

88 15.4 0.0 29.2



#35

Dibromofluoromethane

Concen: 52.070 ug/l

RT: 5.282 min Scan# 1226

Delta R.T. 0.000 min

Lab File: VU054345.D

Acq: 31 May 2023 18:11

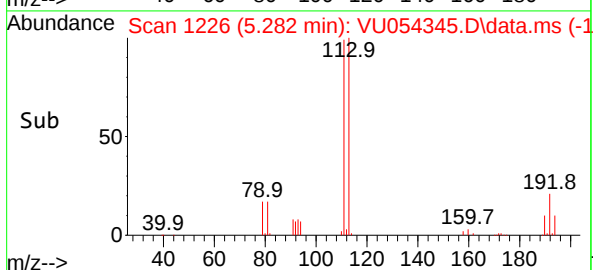
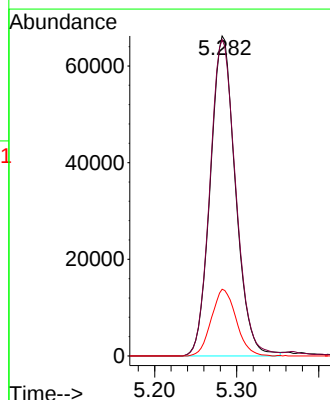
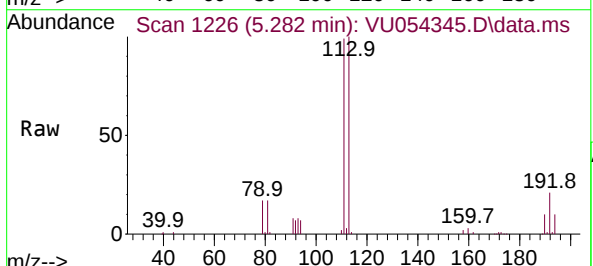
Tgt Ion:113 Resp: 140983

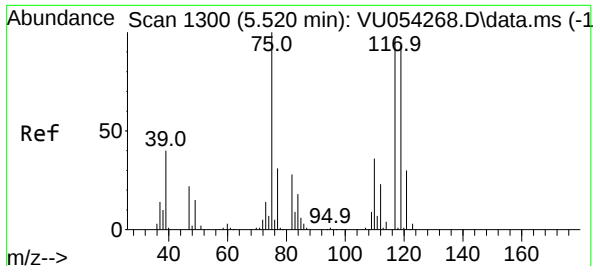
Ion Ratio Lower Upper

113 100

111 101.3 82.1 123.1

192 20.6 18.0 27.0





#36

1,1-Dichloropropene

Concen: 4.245 ug/l

RT: 5.366 min Scan# 11

Delta R.T. -0.154 min

Lab File: VU054345.D

Acq: 31 May 2023 18:11

Instrument :

MSVOA_U

ClientSampleId :

PB153123ZHE#04

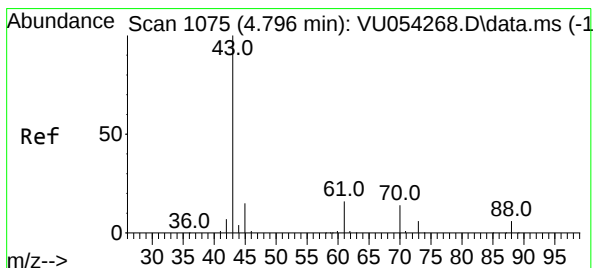
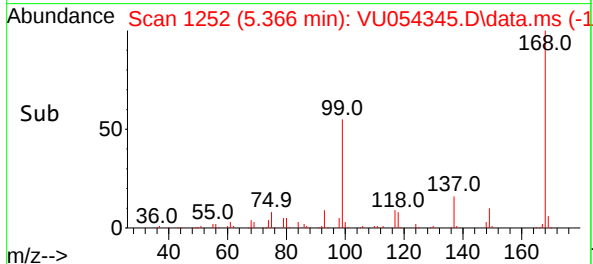
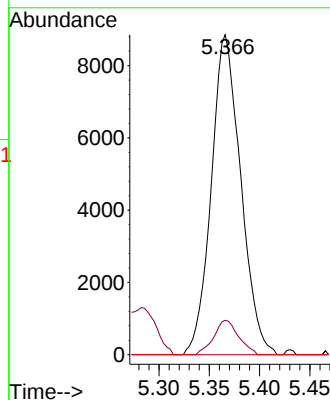
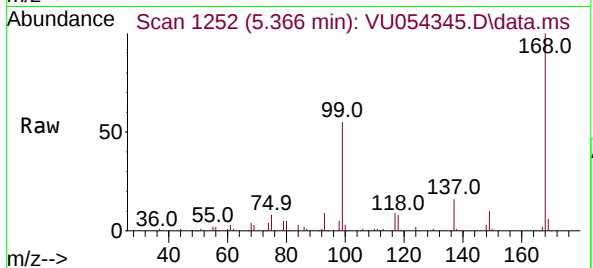
Tgt Ion: 75 Resp: 18052

Ion Ratio Lower Upper

75 100

110 9.1 18.4 55.2#

77 0.0 25.1 37.7#



#37

Ethyl Acetate

Concen: 8.434 ug/l

RT: 4.800 min Scan# 1076

Delta R.T. 0.004 min

Lab File: VU054345.D

Acq: 31 May 2023 18:11

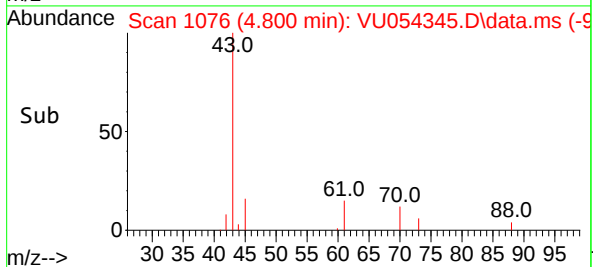
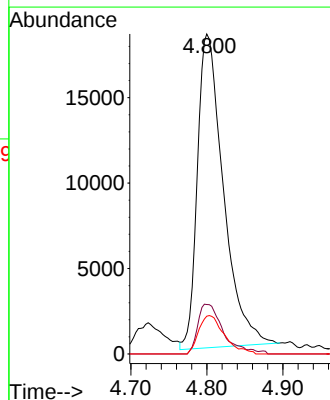
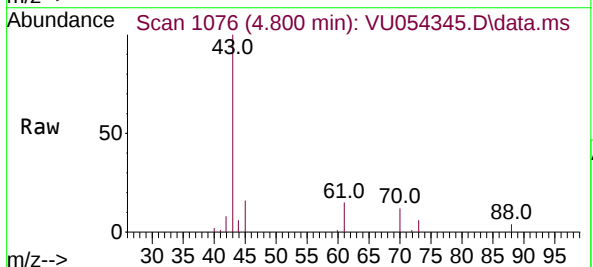
Tgt Ion: 43 Resp: 43714

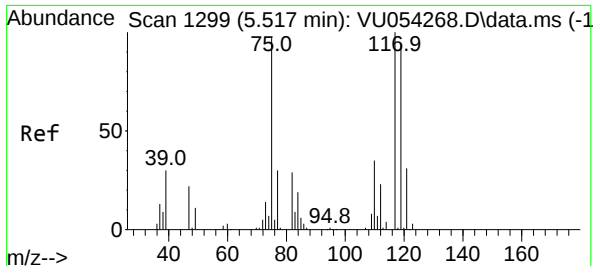
Ion Ratio Lower Upper

43 100

61 15.3 9.5 14.3#

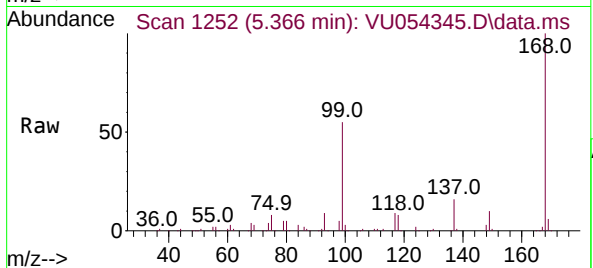
70 12.0 7.5 11.3#



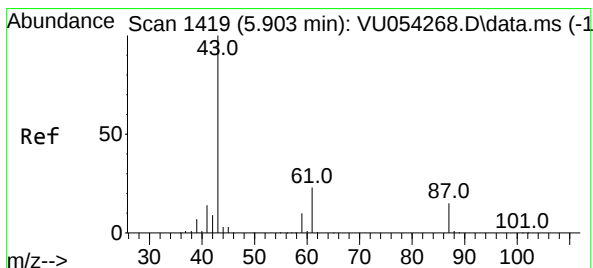
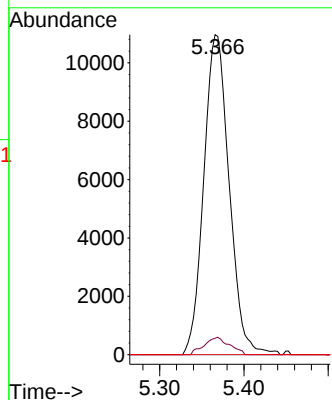
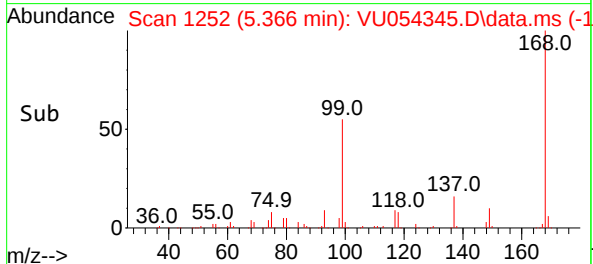


#38
Carbon Tetrachloride
Concen: 5.277 ug/l
RT: 5.366 min Scan# 117
Delta R.T. -0.151 min
Lab File: VU054345.D
Acq: 31 May 2023 18:11

Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#04

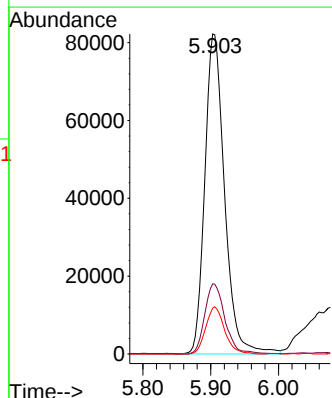
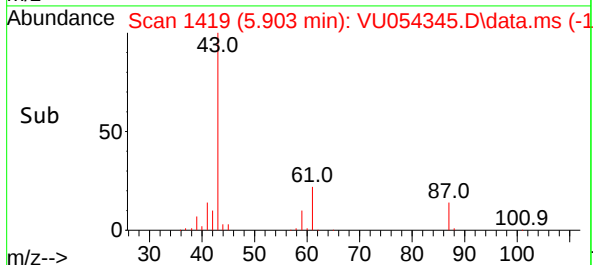
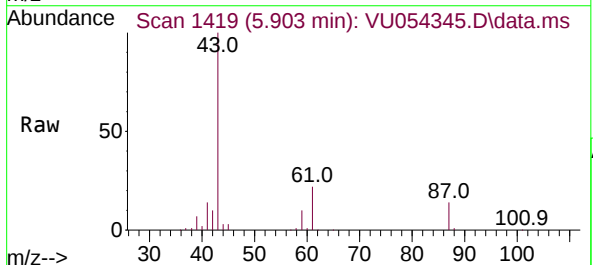


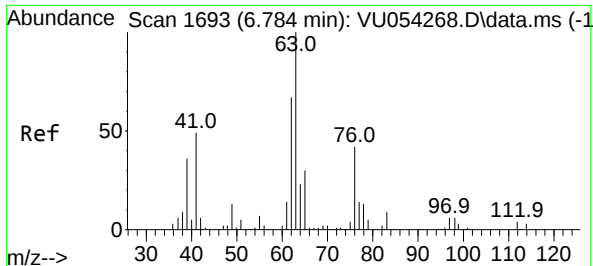
Tgt Ion:117 Resp: 22970
Ion Ratio Lower Upper
117 100
119 5.1 76.8 115.2#
121 0.0 24.7 37.1#



#43
Isopropyl Acetate
Concen: 23.292 ug/l
RT: 5.903 min Scan# 1419
Delta R.T. -0.000 min
Lab File: VU054345.D
Acq: 31 May 2023 18:11

Tgt Ion: 43 Resp: 166512
Ion Ratio Lower Upper
43 100
61 22.4 17.4 26.0
87 14.1 12.6 18.8





#45

1,2-Dichloropropane

Concen: 0.724 ug/l

RT: 7.031 min Scan# 1

Delta R.T. 0.247 min

Lab File: VU054345.D

Acq: 31 May 2023 18:11

Instrument :

MSVOA_U

ClientSampleId :

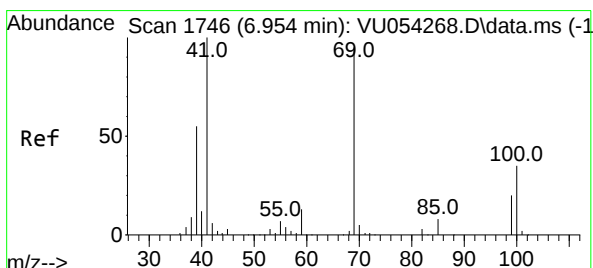
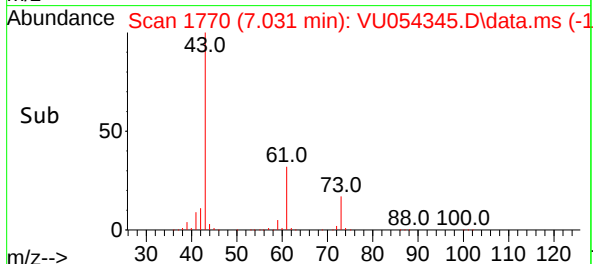
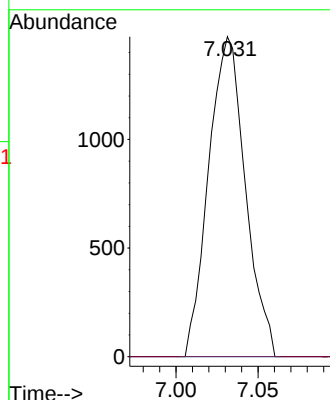
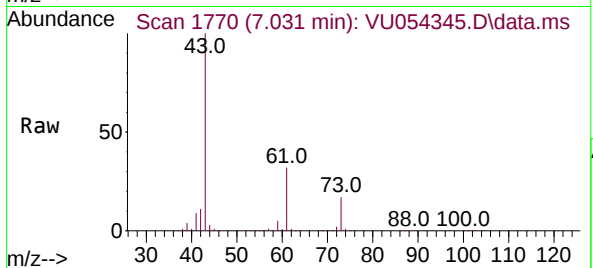
PB153123ZHE#04

Tgt Ion: 63 Resp: 2292

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.4#



#48

Methyl methacrylate

Concen: 46.032 ug/l

RT: 7.031 min Scan# 1770

Delta R.T. 0.077 min

Lab File: VU054345.D

Acq: 31 May 2023 18:11

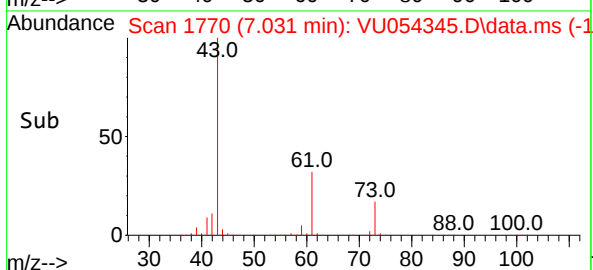
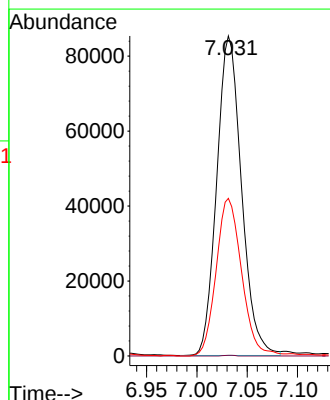
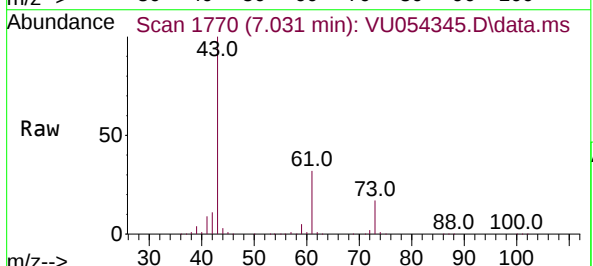
Tgt Ion: 41 Resp: 145938

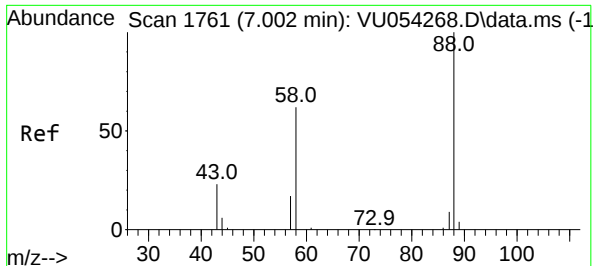
Ion Ratio Lower Upper

41 100

69 0.1 79.8 119.6#

39 50.7 47.9 71.9

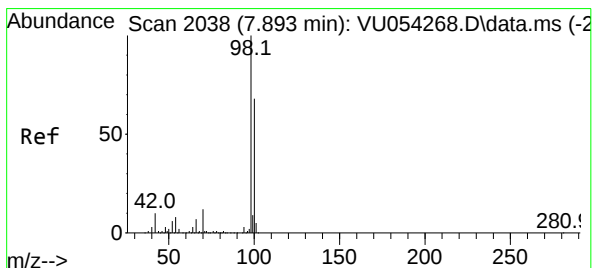
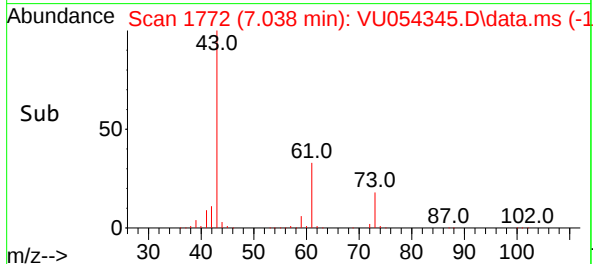
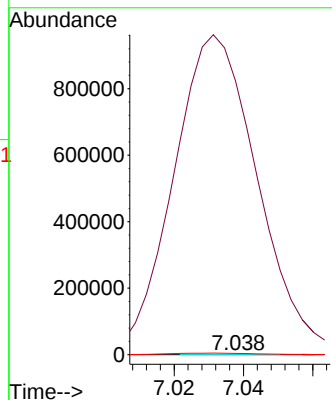
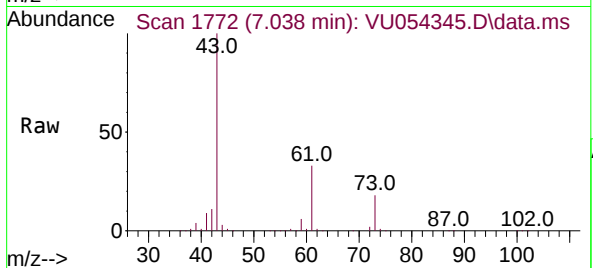




#49
1,4-Dioxane
Concen: 2.120 ug/l
RT: 7.038 min Scan# 11
Delta R.T. 0.036 min
Lab File: VU054345.D
Acq: 31 May 2023 18:11

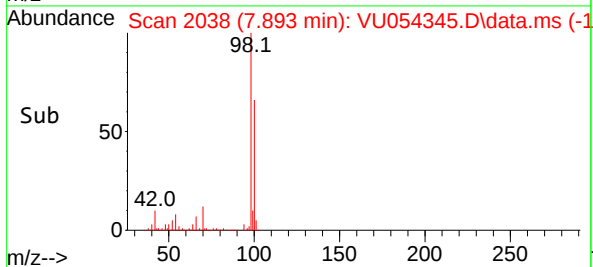
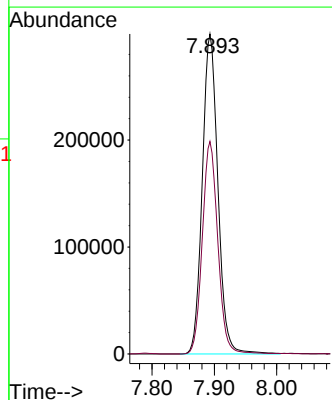
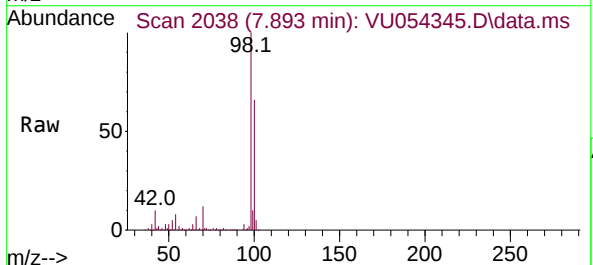
Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#04

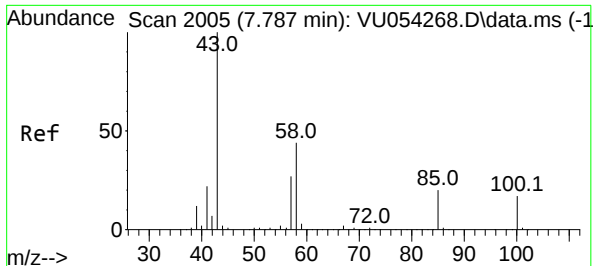
Tgt Ion: 88 Resp: 194
Ion Ratio Lower Upper
88 100
43 858254.1 0.0 0.0#
58 4558.8 15.4 23.0#



#50
Toluene-d8
Concen: 50.554 ug/l
RT: 7.893 min Scan# 2038
Delta R.T. 0.000 min
Lab File: VU054345.D
Acq: 31 May 2023 18:11

Tgt Ion: 98 Resp: 520648
Ion Ratio Lower Upper
98 100
100 65.9 51.7 77.5





#51

4-Methyl-2-Pentanone

Concen: 1.589 ug/l

RT: 7.787 min Scan# 2005

Delta R.T. -0.000 min

Lab File: VU054345.D

Acq: 31 May 2023 18:11

Instrument :

MSVOA_U

ClientSampleId :

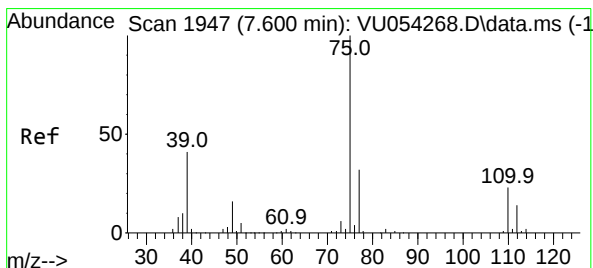
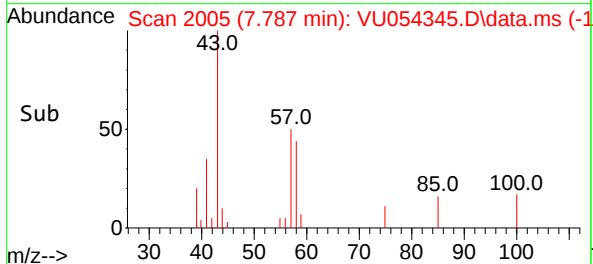
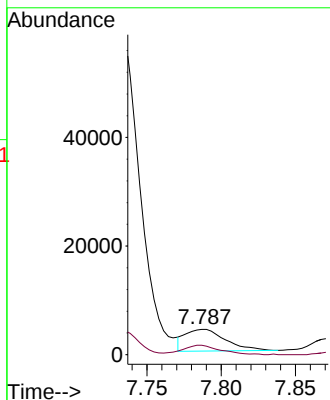
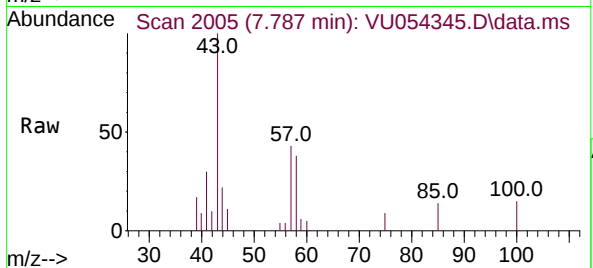
PB153123ZHE#04

Tgt Ion: 43 Resp: 7581

Ion Ratio Lower Upper

43 100

58 40.5 34.7 52.1



#54

cis-1,3-Dichloropropene

Concen: 11.456 ug/l

RT: 7.732 min Scan# 1988

Delta R.T. 0.132 min

Lab File: VU054345.D

Acq: 31 May 2023 18:11

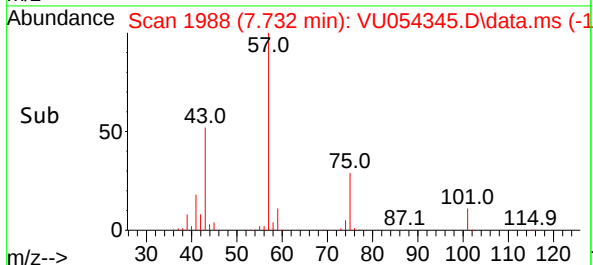
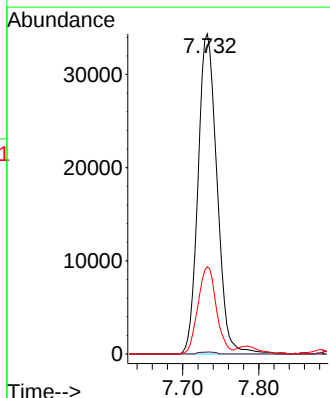
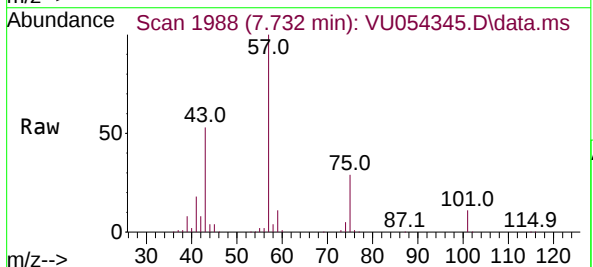
Tgt Ion: 75 Resp: 59585

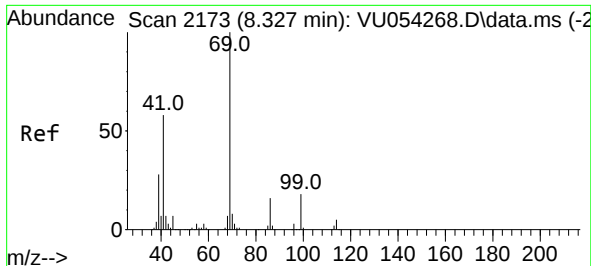
Ion Ratio Lower Upper

75 100

77 0.6 25.7 38.5#

39 27.3 33.0 49.6#

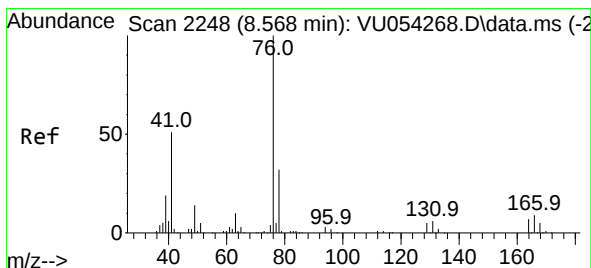
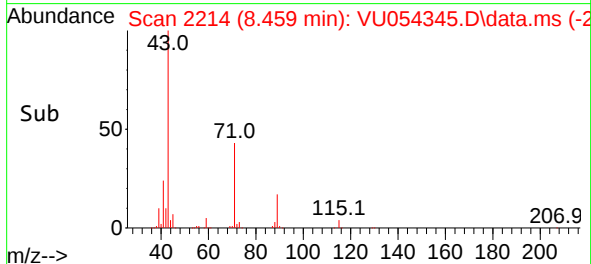
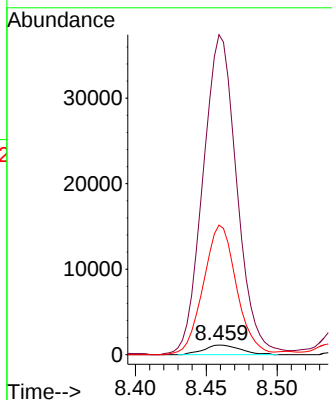
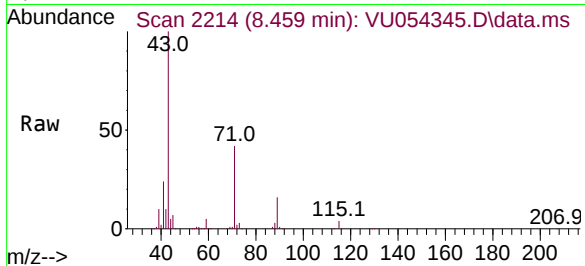




#56
Ethyl methacrylate
Concen: 0.424 ug/l
RT: 8.459 min Scan# 2173
Delta R.T. 0.132 min
Lab File: VU054345.D
Acq: 31 May 2023 18:11

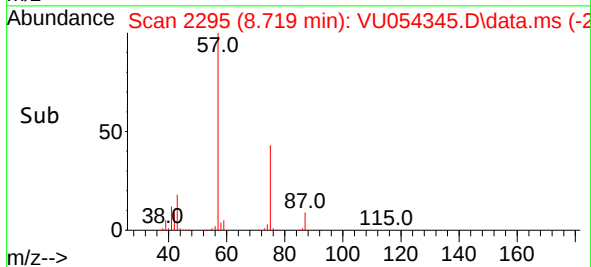
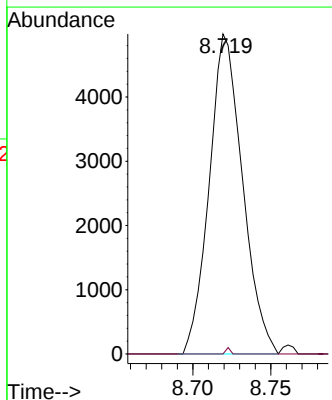
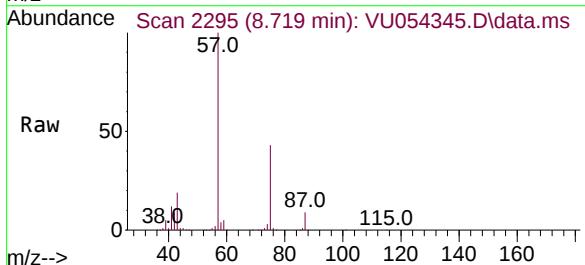
Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#04

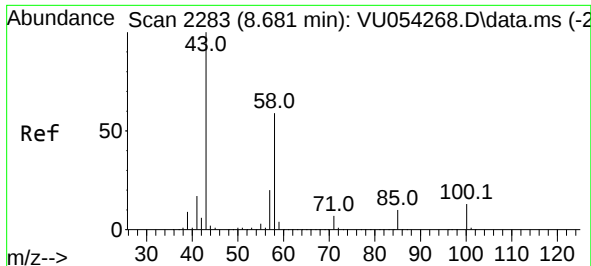
Tgt Ion: 69 Resp: 2025
Ion Ratio Lower Upper
69 100
41 3086.2 45.4 68.0#
39 1218.0 25.7 38.5#



#57
1,3-Dichloropropane
Concen: 1.342 ug/l
RT: 8.719 min Scan# 2295
Delta R.T. 0.151 min
Lab File: VU054345.D
Acq: 31 May 2023 18:11

Tgt Ion: 76 Resp: 7407
Ion Ratio Lower Upper
76 100
78 0.3 26.1 39.1#





#59

2-Hexanone

Concen: 26.991 ug/l

RT: 8.719 min Scan# 21

Delta R.T. 0.038 min

Lab File: VU054345.D

Acq: 31 May 2023 18:11

Instrument :

MSVOA_U

ClientSampleId :

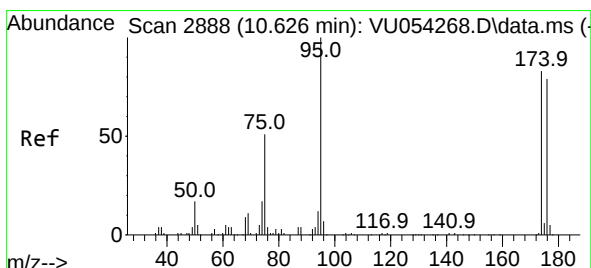
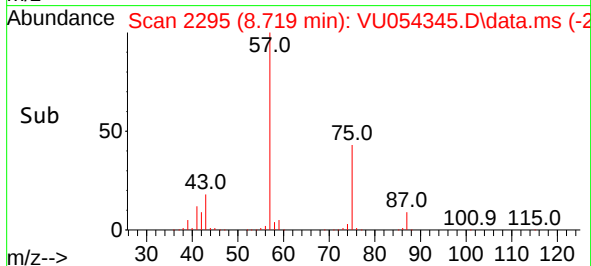
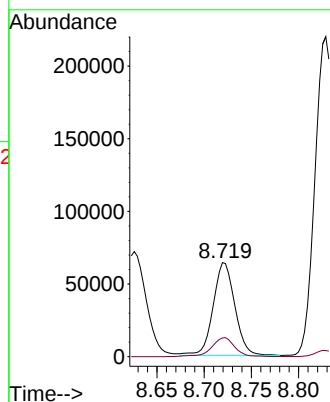
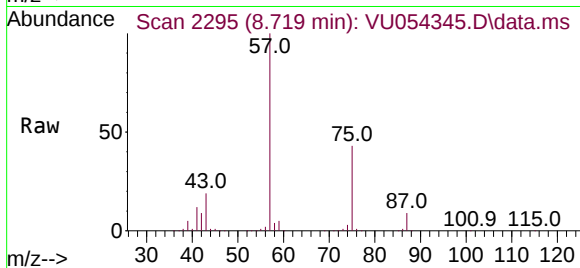
PB153123ZHE#04

Tgt Ion: 43 Resp: 101720

Ion Ratio Lower Upper

43 100

58 22.2 30.3 90.8#



#62

4-Bromofluorobenzene

Concen: 44.414 ug/l

RT: 10.626 min Scan# 2888

Delta R.T. 0.000 min

Lab File: VU054345.D

Acq: 31 May 2023 18:11

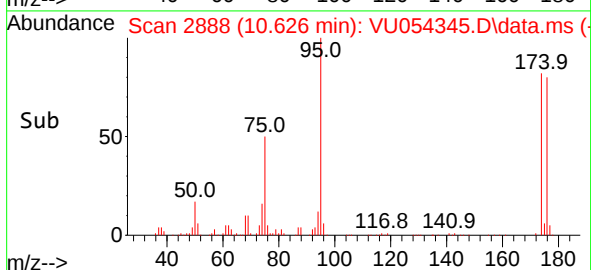
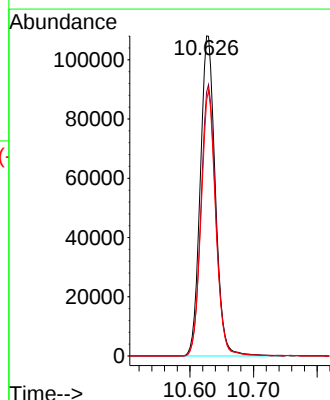
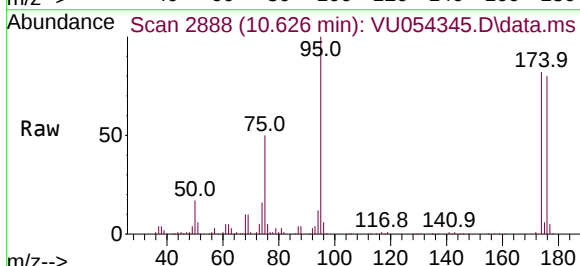
Tgt Ion: 95 Resp: 177357

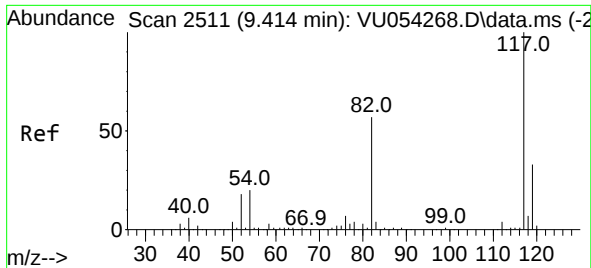
Ion Ratio Lower Upper

95 100

174 83.8 0.0 182.0

176 80.3 0.0 177.8

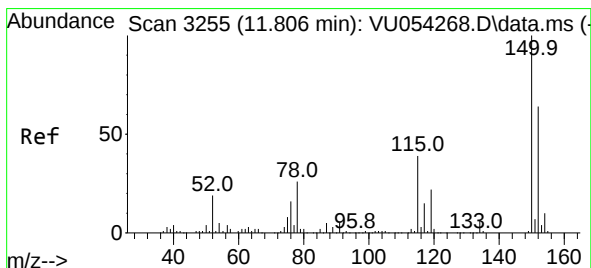
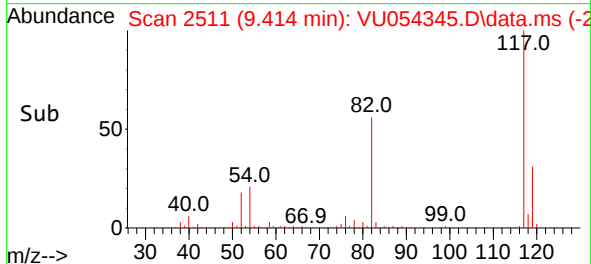
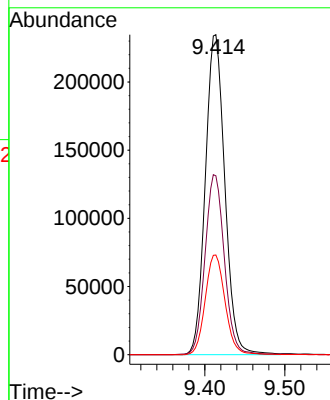
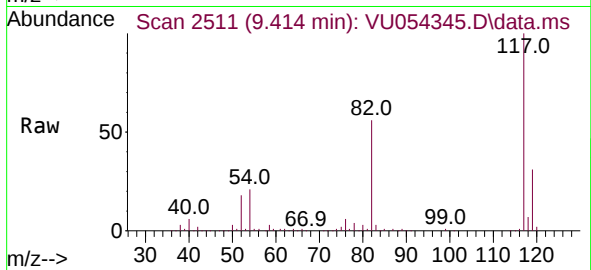




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.414 min Scan# 2511
Delta R.T. -0.000 min
Lab File: VU054345.D
Acq: 31 May 2023 18:11

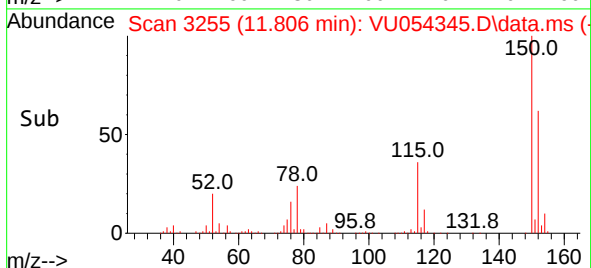
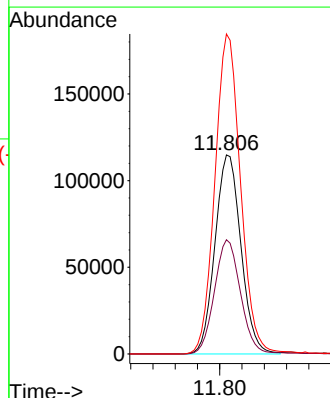
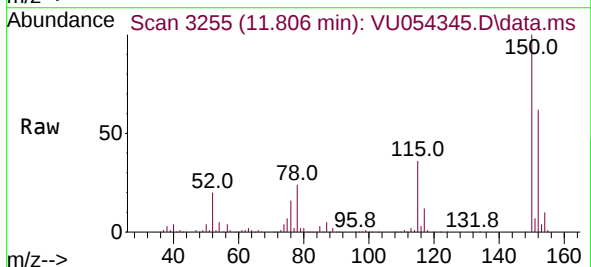
Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#04

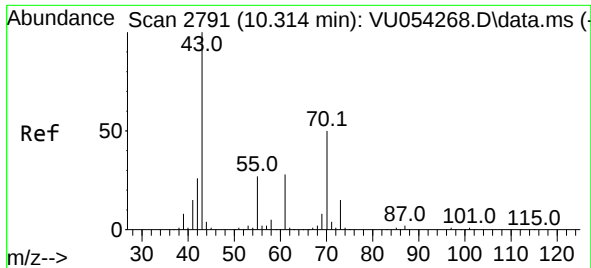
Tgt Ion:117 Resp: 398957
Ion Ratio Lower Upper
117 100
82 55.8 41.7 62.5
119 31.1 25.7 38.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.806 min Scan# 3255
Delta R.T. 0.000 min
Lab File: VU054345.D
Acq: 31 May 2023 18:11

Tgt Ion:152 Resp: 186118
Ion Ratio Lower Upper
152 100
115 57.7 37.0 110.9
150 158.8 0.0 342.2

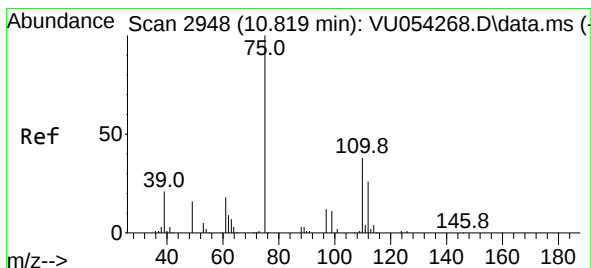
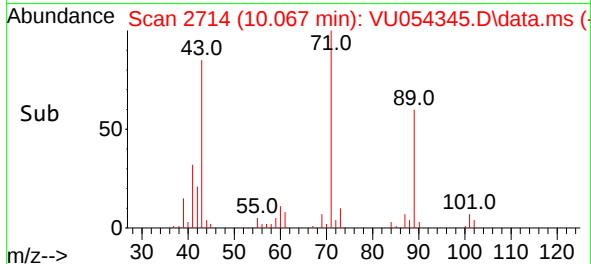
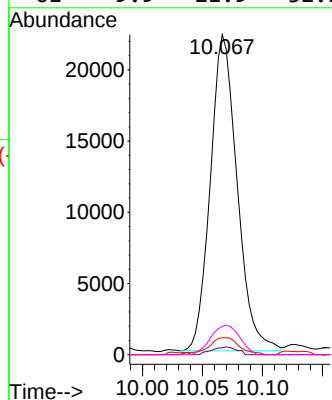
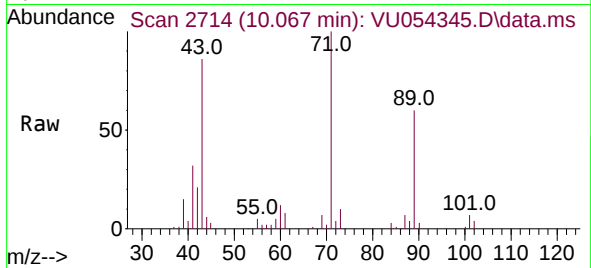




#74
N-amy1 acetate
Concen: 7.064 ug/l
RT: 10.067 min Scan# 21
Delta R.T. -0.247 min
Lab File: VU054345.D
Acq: 31 May 2023 18:11

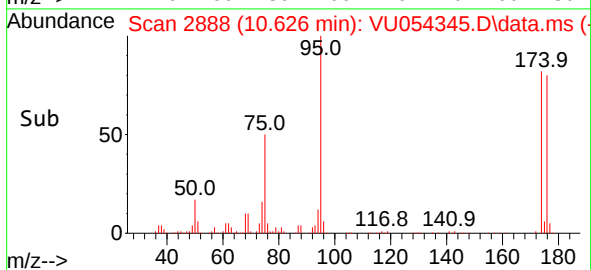
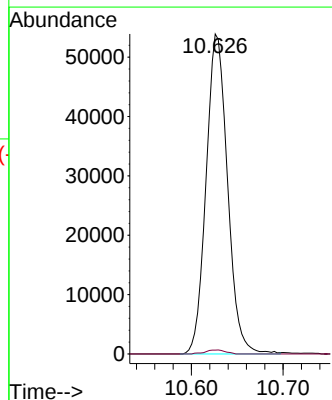
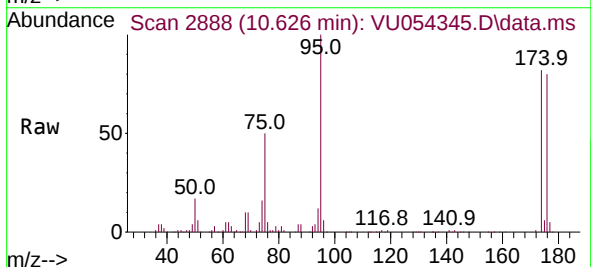
Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#04

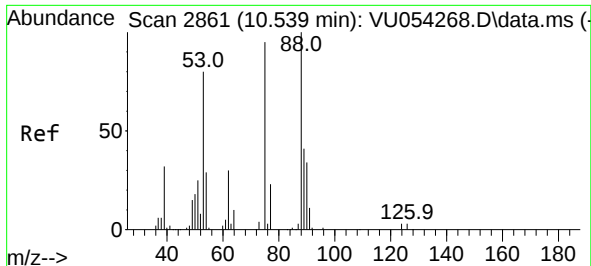
Tgt Ion: 43	Resp: 34573
Ion Ratio	Lower Upper
43 100	
70 2.3	38.7 58.1#
55 6.0	21.8 32.8#
61 9.9	21.9 32.9#



#76
1,2,3-Trichloropropane
Concen: 16.138 ug/l
RT: 10.626 min Scan# 2888
Delta R.T. -0.193 min
Lab File: VU054345.D
Acq: 31 May 2023 18:11

Tgt Ion: 75	Resp: 87663
Ion Ratio	Lower Upper
75 100	
77 1.2	15.8 47.3#

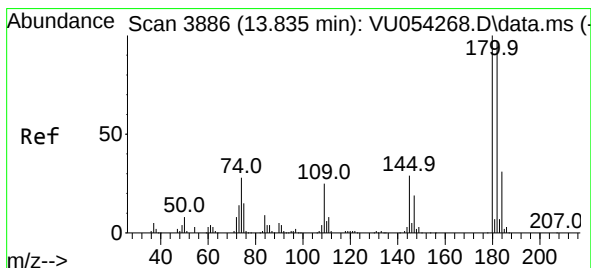
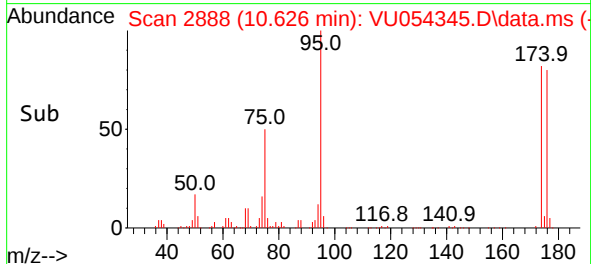
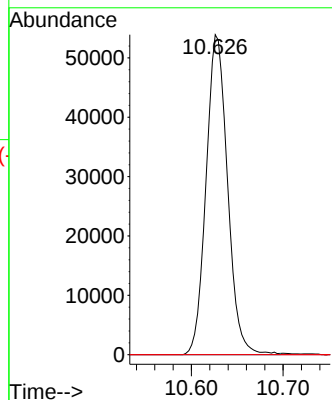
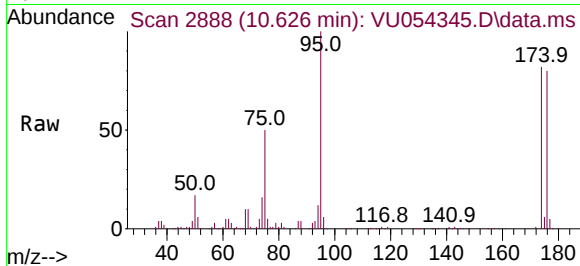




#81
trans-1,4-Dichloro-2-butene
Concen: 61.453 ug/l
RT: 10.626 min Scan# 21
Delta R.T. 0.087 min
Lab File: VU054345.D
Acq: 31 May 2023 18:11

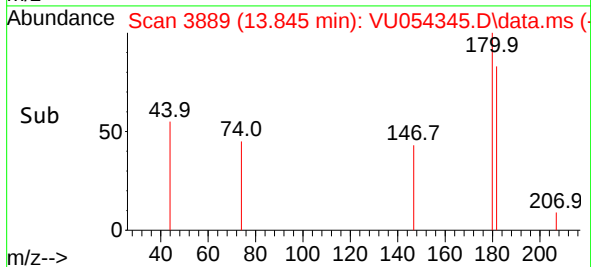
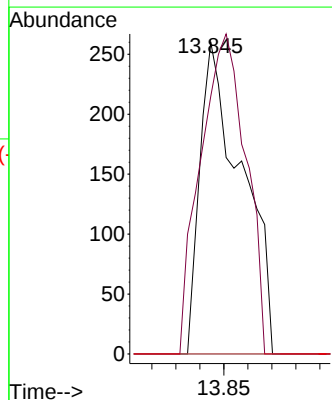
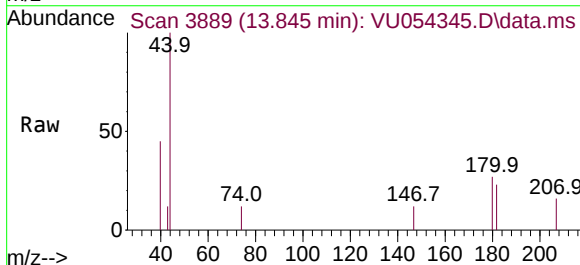
Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#04

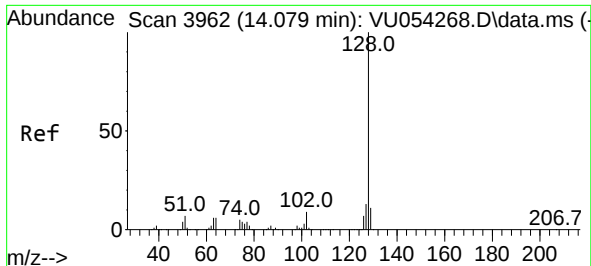
Tgt Ion: 75 Resp: 87663
Ion Ratio Lower Upper
75 100
53 0.0 69.2 103.8#
89 0.0 37.0 55.6#



#93
1,2,4-Trichlorobenzene
Concen: 1.715 ug/l
RT: 13.845 min Scan# 3889
Delta R.T. 0.010 min
Lab File: VU054345.D
Acq: 31 May 2023 18:11

Tgt Ion:180 Resp: 315
Ion Ratio Lower Upper
180 100
182 111.7 47.9 143.6
145 0.0 14.0 41.9#

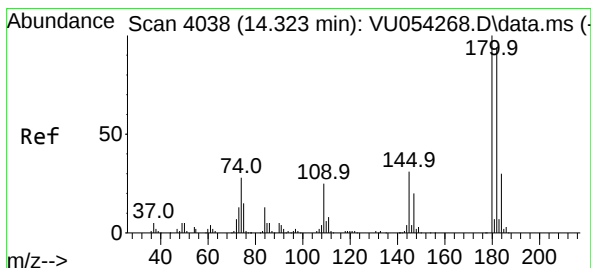
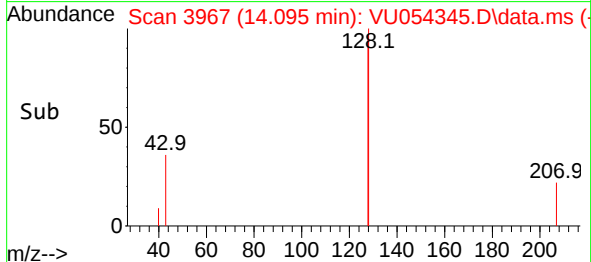
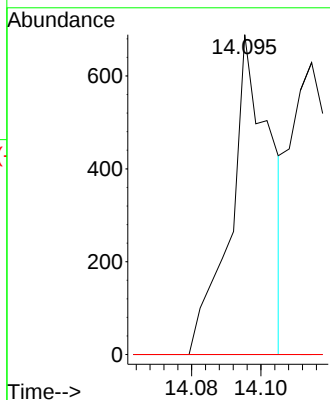
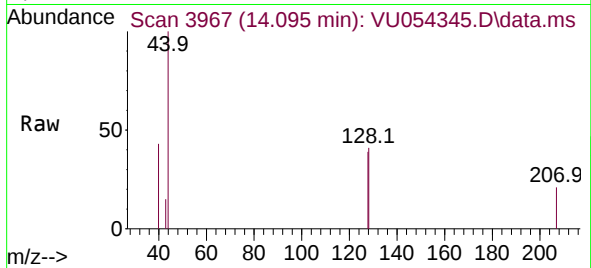




#95
Naphthalene
Concen: 2.030 ug/l
RT: 14.095 min Scan# 3967
Delta R.T. 0.016 min
Lab File: VU054345.D
Acq: 31 May 2023 18:11

Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#04

Tgt Ion:128 Resp: 549
Ion Ratio Lower Upper
128 100
127 0.0 10.3 15.5#
129 0.0 8.6 13.0#



#96
1,2,3-Trichlorobenzene
Concen: 1.282 ug/l
RT: 14.324 min Scan# 4038
Delta R.T. 0.001 min
Lab File: VU054345.D
Acq: 31 May 2023 18:11

Tgt Ion:180 Resp: 119
Ion Ratio Lower Upper
180 100
182 0.0 48.4 145.0#
145 0.0 14.8 44.4#

