

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU053123\
 Data File : VU054364.D
 Acq On : 01 Jun 2023 02:05
 Operator : JC/MD
 Sample : 02976-02
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 39 Sample Multiplier: 1

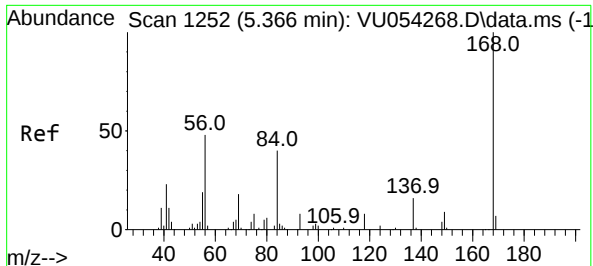
Instrument :
 MSVOA_U
 ClientSampleId :
 TP-1

Quant Time: Jun 01 06:41:35 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	258003	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.243	114	446857	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.411	117	426642	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.806	152	204055	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.694	65	180967	53.506	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 107.020%			
35) Dibromofluoromethane	5.282	113	149057	51.798	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.600%			
50) Toluene-d8	7.893	98	561149	51.267	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 102.540%			
62) 4-Bromofluorobenzene	10.629	95	193075	45.492	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 90.980%			
Target Compounds						
					Qvalue	
5) Bromomethane	1.864	94	409	0.205	ug/l	94
10) Methyl Iodide	2.716	142	85	2.357	ug/l #	43
11) Tert butyl alcohol	3.221	59	213	0.233	ug/l #	37
16) Acetone	2.626	43	41554	21.434	ug/l	98
18) Methyl Acetate	2.954	43	4566	0.645	ug/l #	89
20) Methylene Chloride	3.041	84	18412	5.264	ug/l	94
25) 2-Butanone	4.729	43	2386	0.930	ug/l #	87
29) Tetrahydrofuran	5.057	42	527	0.327	ug/l	96
31) Cyclohexane	5.369	56	4983	1.043	ug/l #	1
36) 1,1-Dichloropropene	5.369	75	19988	4.422	ug/l #	48
37) Ethyl Acetate	4.800	43	53722	9.753	ug/l #	92
38) Carbon Tetrachloride	5.366	117	24650	5.328	ug/l #	16
43) Isopropyl Acetate	5.903	43	200044	26.328	ug/l	98
45) 1,2-Dichloropropane	7.031	63	2677	0.796	ug/l #	43
48) Methyl methacrylate	6.896	41	5743	1.704	ug/l #	35
49) 1,4-Dioxane	7.038	88	227	2.334	ug/l #	1
51) 4-Methyl-2-Pentanone	7.787	43	9680	1.909	ug/l	96
53) t-1,3-Dichloropropene	8.157	75	1114	0.210	ug/l #	43
54) cis-1,3-Dichloropropene	7.732	75	71568	12.947	ug/l #	62
56) Ethyl methacrylate	8.456	69	2446	0.482	ug/l #	1
57) 1,3-Dichloropropane	8.719	76	9508	1.621	ug/l #	42
59) 2-Hexanone	8.719	43	120075	29.978	ug/l #	49
74) N-amyl acetate	10.066	43	40317	7.513	ug/l #	49
76) 1,2,3-Trichloropropane	10.626	75	95069	15.963	ug/l #	45
81) trans-1,4-Dichloro-2-b...	10.626	75	95069	60.787	ug/l #	15
93) 1,2,4-Trichlorobenzene	13.841	180	674	1.782	ug/l #	88
95) Naphthalene	14.095	128	2275	2.136	ug/l #	84
96) 1,2,3-Trichlorobenzene	14.336	180	511	1.362	ug/l #	79

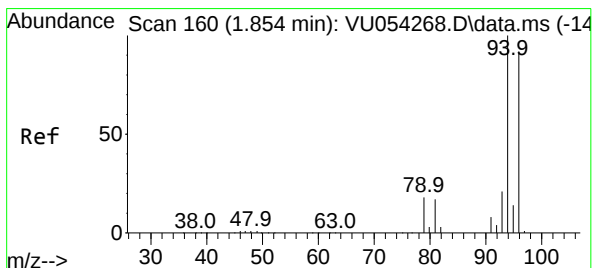
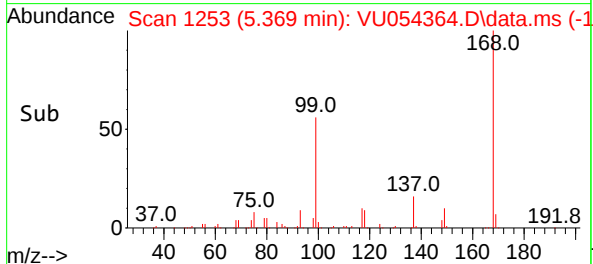
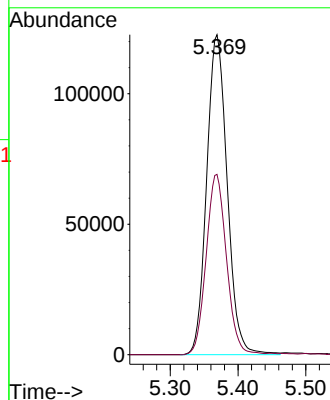
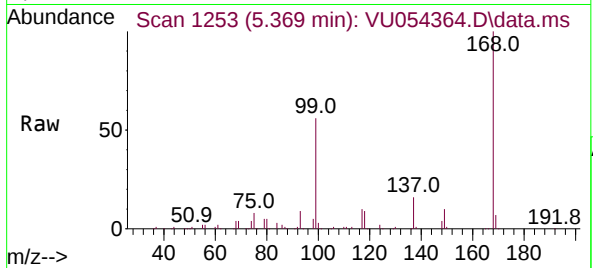
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.369 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU054364.D
Acq: 01 Jun 2023 02:05

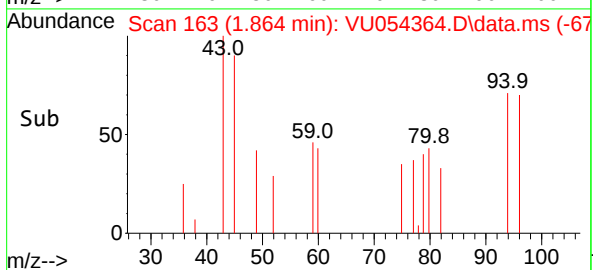
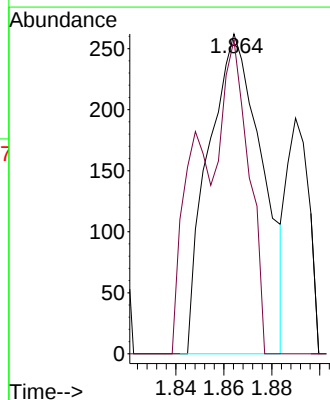
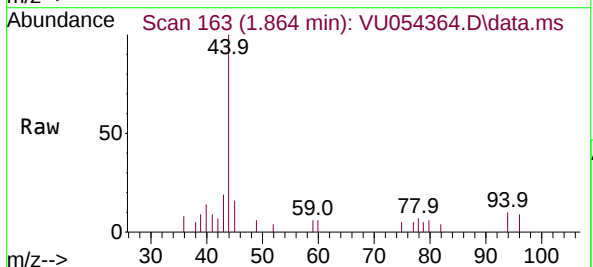
Instrument :
MSVOA_U
ClientSampleId :
TP-1

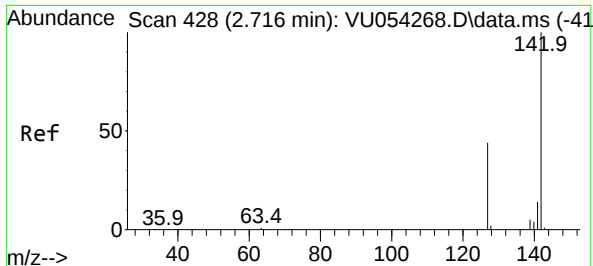
Tgt Ion:168 Resp: 258003
Ion Ratio Lower Upper
168 100
99 56.4 39.3 58.9



#5
Bromomethane
Concen: 0.205 ug/l
RT: 1.864 min Scan# 163
Delta R.T. 0.010 min
Lab File: VU054364.D
Acq: 01 Jun 2023 02:05

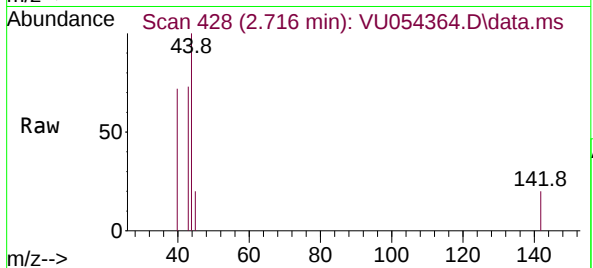
Tgt Ion: 94 Resp: 409
Ion Ratio Lower Upper
94 100
96 98.1 73.7 110.5



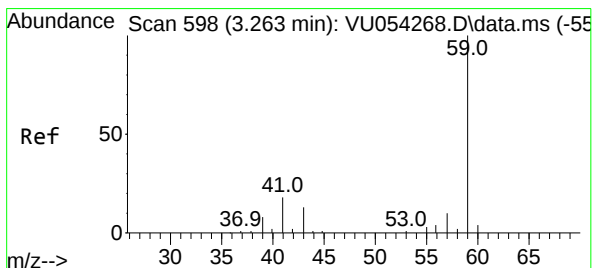
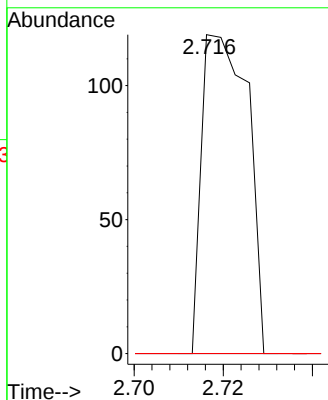
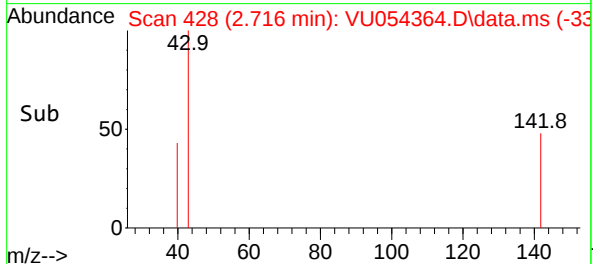


#10
Methyl Iodide
Concen: 2.357 ug/l
RT: 2.716 min Scan# 41
Delta R.T. 0.000 min
Lab File: VU054364.D
Acq: 01 Jun 2023 02:05

Instrument :
MSVOA_U
ClientSampleId :
TP-1

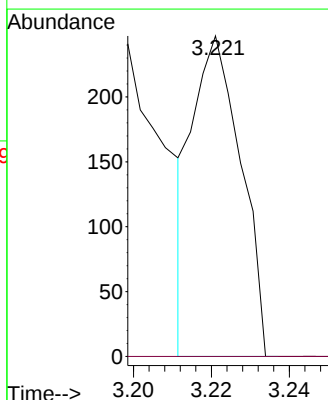
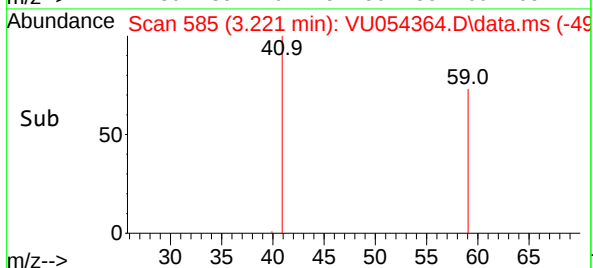
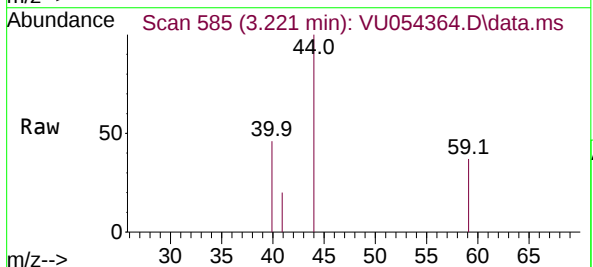


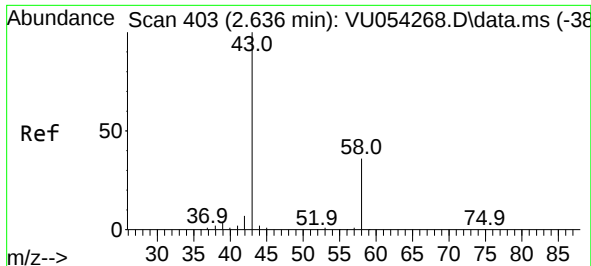
Tgt Ion:142 Resp: 85
Ion Ratio Lower Upper
142 100
127 0.0 32.5 48.7#
141 0.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 0.233 ug/l
RT: 3.221 min Scan# 585
Delta R.T. -0.022 min
Lab File: VU054364.D
Acq: 01 Jun 2023 02:05

Tgt Ion: 59 Resp: 213
Ion Ratio Lower Upper
59 100
57 0.0 30.6 45.8#





#16

Acetone

Concen: 21.434 ug/l

RT: 2.626 min Scan# 40

Delta R.T. -0.010 min

Lab File: VU054364.D

Acq: 01 Jun 2023 02:05

Instrument :

MSVOA_U

ClientSampleId :

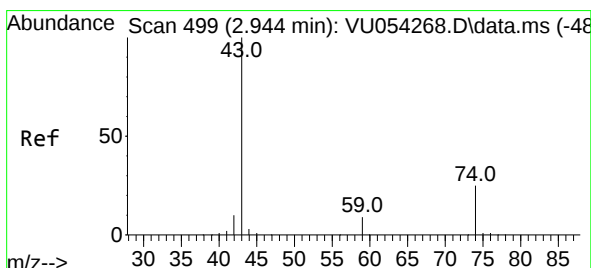
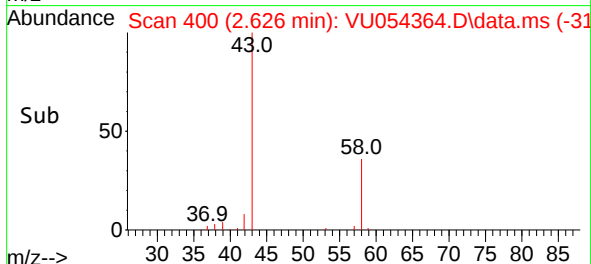
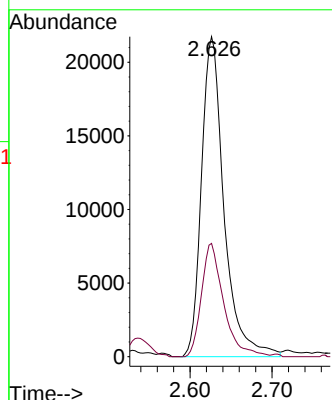
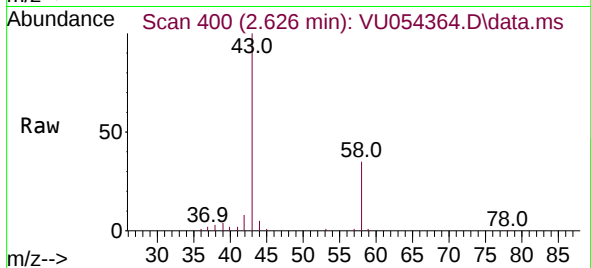
TP-1

Tgt Ion: 43 Resp: 41554

Ion Ratio Lower Upper

43 100

58 35.4 27.5 41.3



#18

Methyl Acetate

Concen: 0.645 ug/l

RT: 2.954 min Scan# 502

Delta R.T. 0.010 min

Lab File: VU054364.D

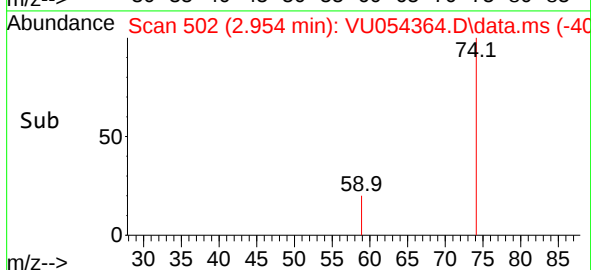
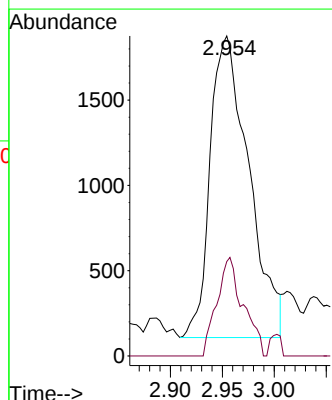
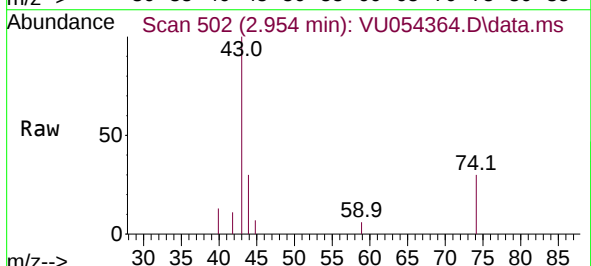
Acq: 01 Jun 2023 02:05

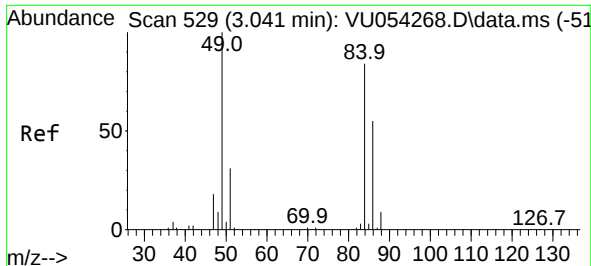
Tgt Ion: 43 Resp: 4566

Ion Ratio Lower Upper

43 100

74 22.3 22.5 33.7#

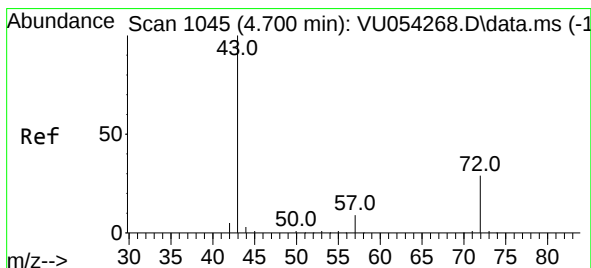
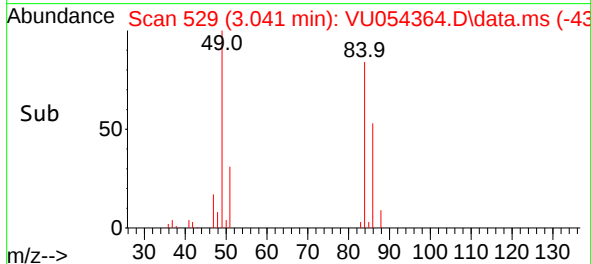
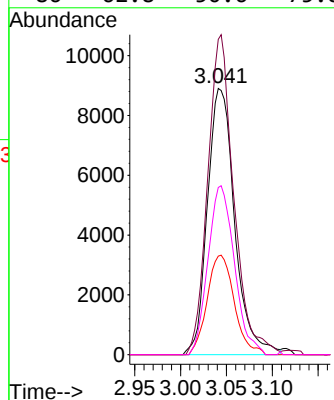
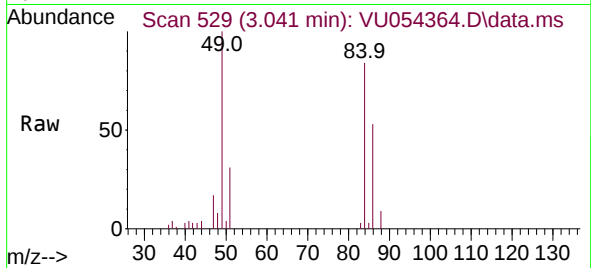




#20
Methylene Chloride
Concen: 5.264 ug/l
RT: 3.041 min Scan# 51
Delta R.T. -0.000 min
Lab File: VU054364.D
Acq: 01 Jun 2023 02:05

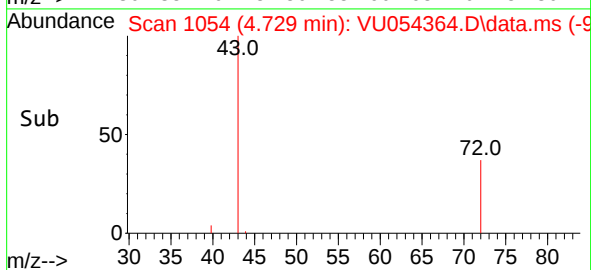
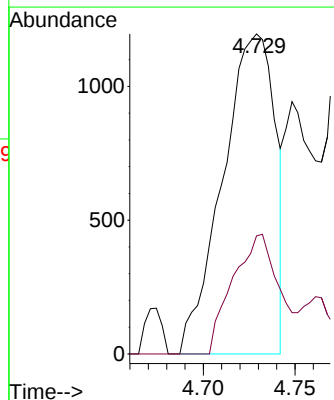
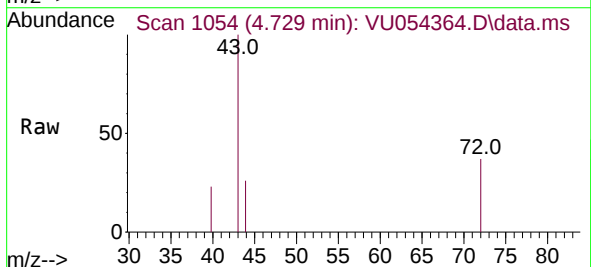
Instrument :
MSVOA_U
ClientSampleId :
TP-1

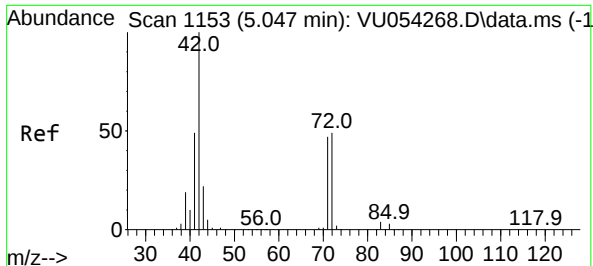
Tgt Ion:	84	Resp:	18412
Ion	Ratio	Lower	Upper
84	100		
49	118.4	86.6	129.8
51	37.0	26.6	40.0
86	62.8	50.6	75.8



#25
2-Butanone
Concen: 0.930 ug/l
RT: 4.729 min Scan# 1054
Delta R.T. 0.029 min
Lab File: VU054364.D
Acq: 01 Jun 2023 02:05

Tgt Ion:	43	Resp:	2386
Ion	Ratio	Lower	Upper
43	100		
72	36.9	23.8	35.6#





#29

Tetrahydrofuran

Concen: 0.327 ug/l

RT: 5.057 min Scan# 1156

Delta R.T. 0.010 min

Lab File: VU054364.D

Acq: 01 Jun 2023 02:05

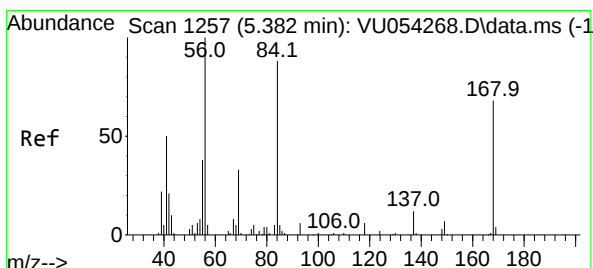
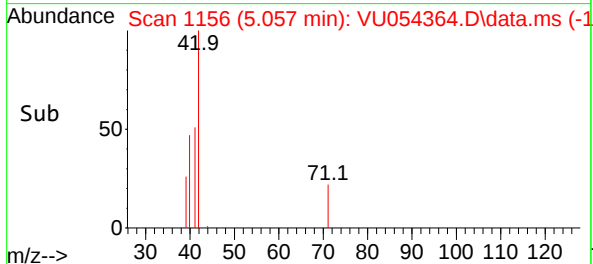
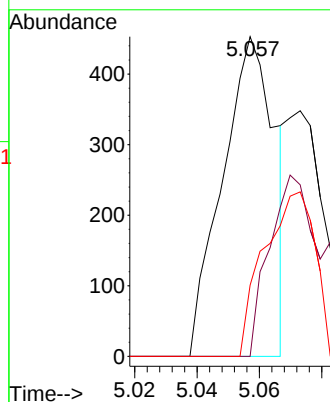
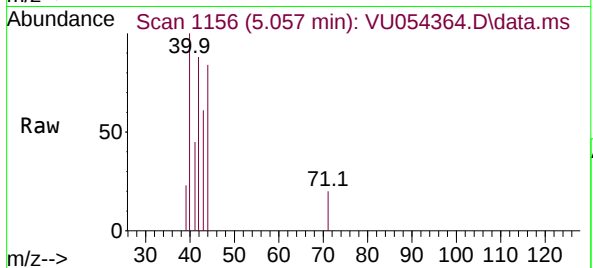
Instrument :

MSVOA_U

ClientSampleId :

TP-1

Tgt Ion:	42	Resp:	527
Ion	Ratio	Lower	Upper
42	100		
72	47.6	42.6	63.8
71	50.1	40.3	60.5



#31

Cyclohexane

Concen: 1.043 ug/l

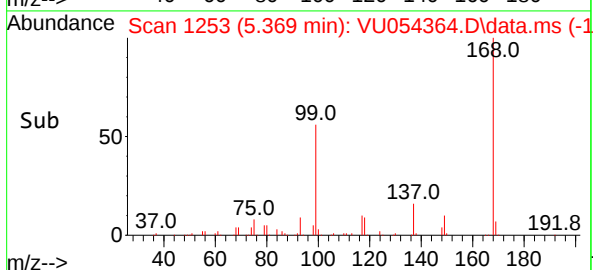
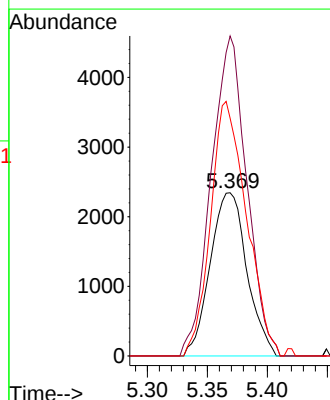
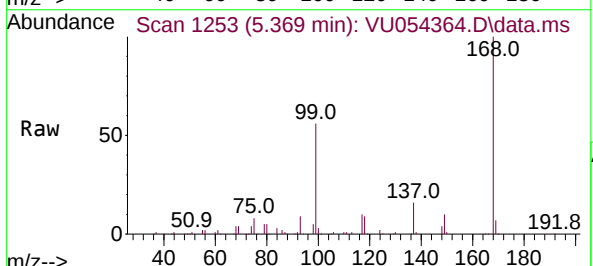
RT: 5.369 min Scan# 1253

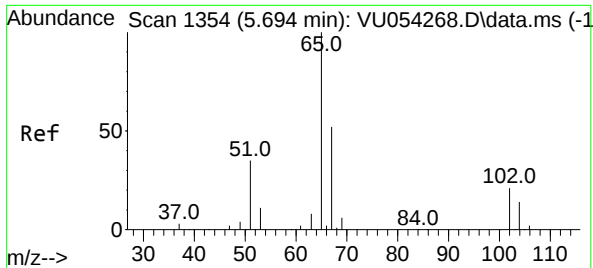
Delta R.T. -0.013 min

Lab File: VU054364.D

Acq: 01 Jun 2023 02:05

Tgt Ion:	56	Resp:	4983
Ion	Ratio	Lower	Upper
56	100		
69	196.2	27.8	41.8#
84	145.8	74.2	111.4#





#33

1,2-Dichloroethane-d4

Concen: 53.506 ug/l

RT: 5.694 min Scan# 1

Delta R.T. -0.000 min

Lab File: VU054364.D

Acq: 01 Jun 2023 02:05

Instrument :

MSVOA_U

ClientSampleId :

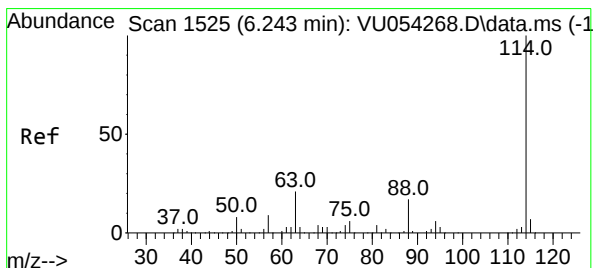
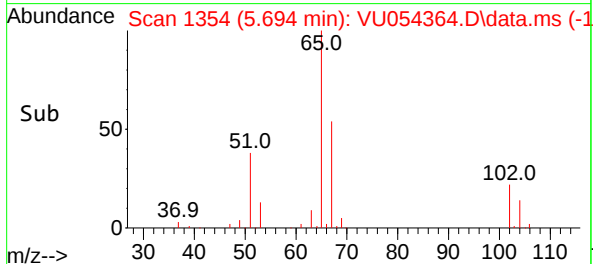
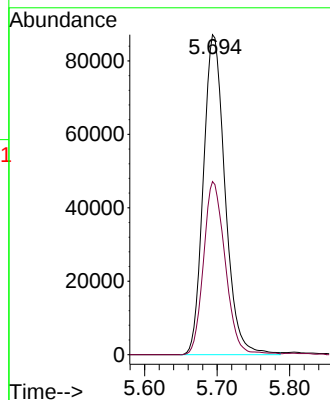
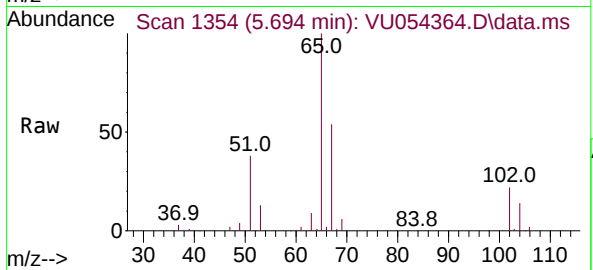
TP-1

Tgt Ion: 65 Resp: 180967

Ion Ratio Lower Upper

65 100

67 54.1 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: VU054364.D

Acq: 01 Jun 2023 02:05

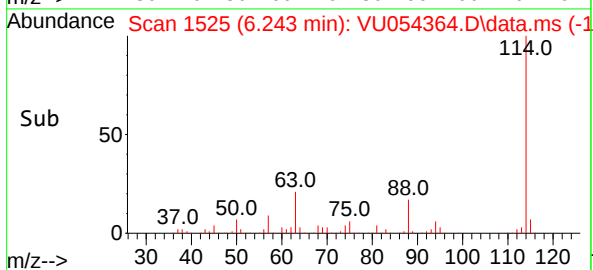
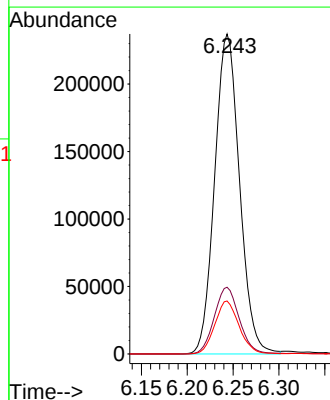
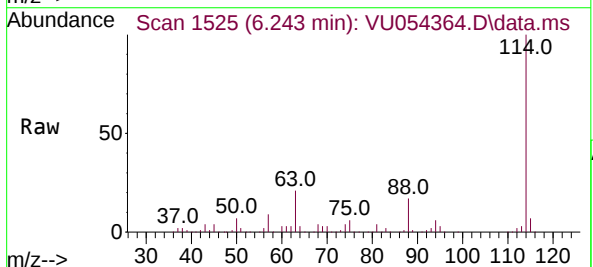
Tgt Ion:114 Resp: 446857

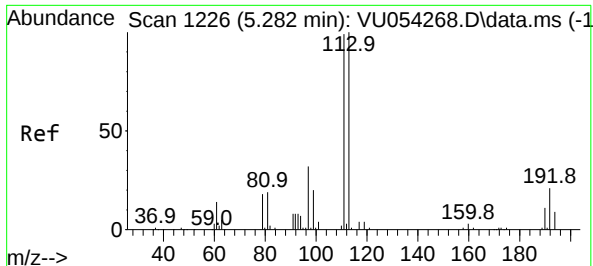
Ion Ratio Lower Upper

114 100

63 20.9 0.0 37.8

88 16.5 0.0 29.2

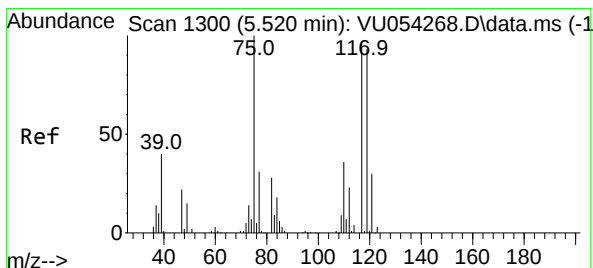
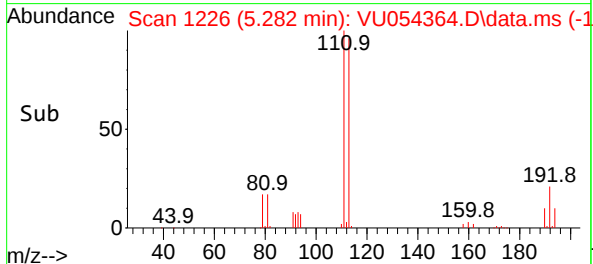
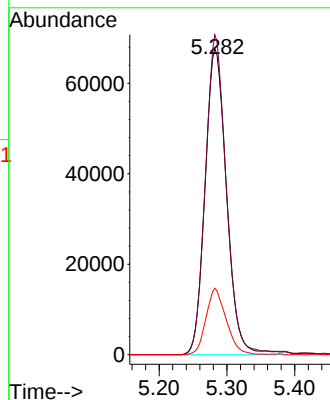
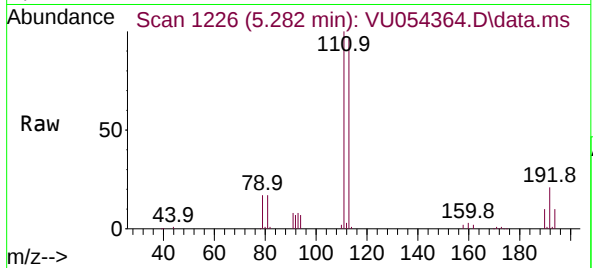




#35
Dibromofluoromethane
Concen: 51.798 ug/l
RT: 5.282 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU054364.D
Acq: 01 Jun 2023 02:05

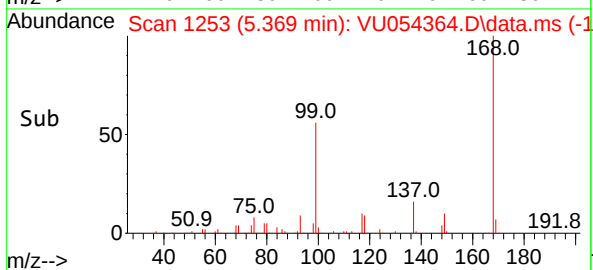
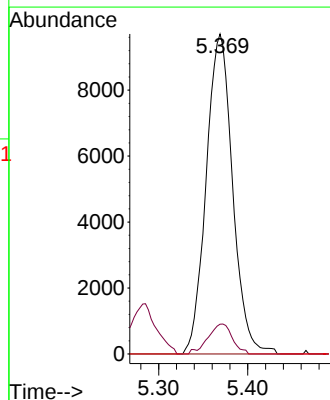
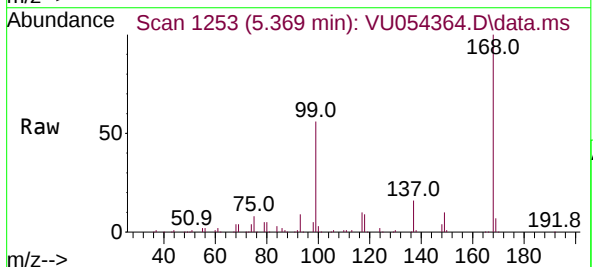
Instrument :
MSVOA_U
ClientSampleId :
TP-1

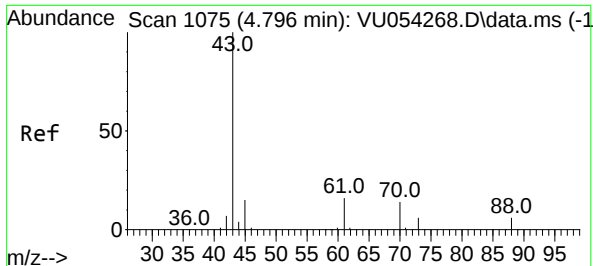
Tgt Ion:113 Resp: 149057
Ion Ratio Lower Upper
113 100
111 101.0 82.1 123.1
192 20.4 18.0 27.0



#36
1,1-Dichloropropene
Concen: 4.422 ug/l
RT: 5.369 min Scan# 1253
Delta R.T. -0.151 min
Lab File: VU054364.D
Acq: 01 Jun 2023 02:05

Tgt Ion: 75 Resp: 19988
Ion Ratio Lower Upper
75 100
110 8.6 18.4 55.2#
77 0.0 25.1 37.7#





#37

Ethyl Acetate

Concen: 9.753 ug/l

RT: 4.800 min Scan# 1

Delta R.T. 0.004 min

Lab File: VU054364.D

Acq: 01 Jun 2023 02:05

Instrument :

MSVOA_U

ClientSampleId :

TP-1

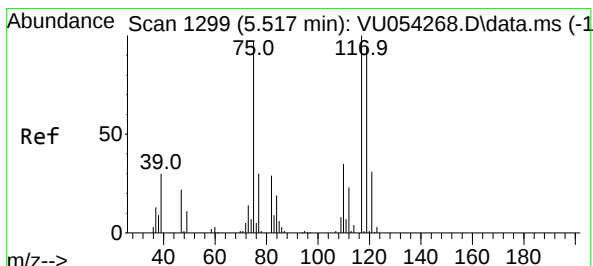
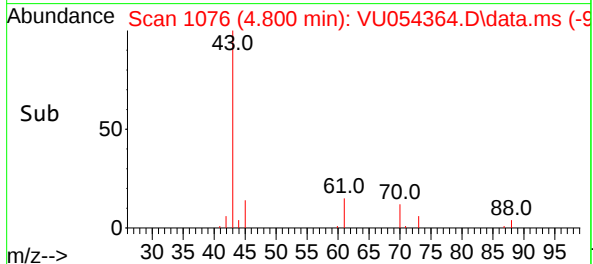
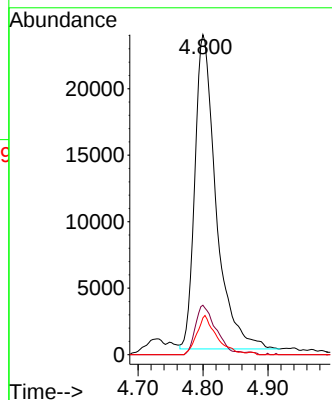
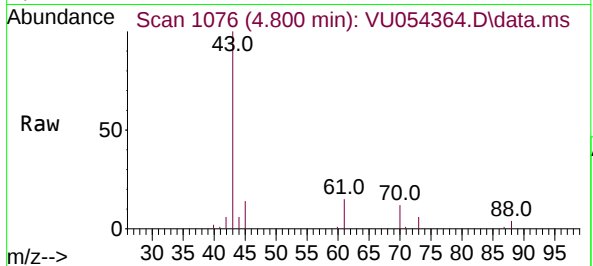
Tgt Ion: 43 Resp: 53722

Ion Ratio Lower Upper

43 100

61 15.3 9.5 14.3#

70 11.6 7.5 11.3#



#38

Carbon Tetrachloride

Concen: 5.328 ug/l

RT: 5.366 min Scan# 1252

Delta R.T. -0.151 min

Lab File: VU054364.D

Acq: 01 Jun 2023 02:05

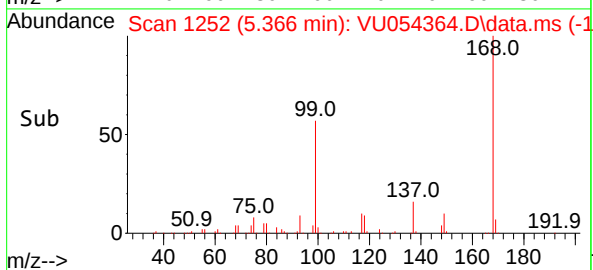
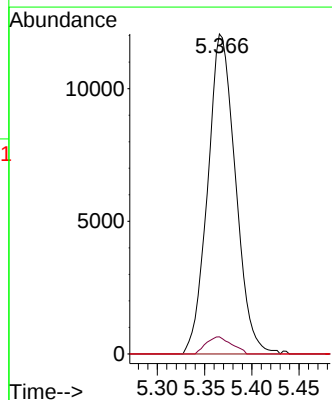
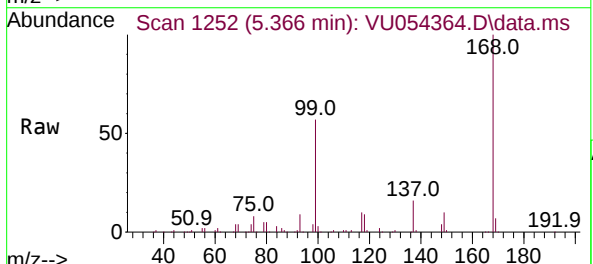
Tgt Ion: 117 Resp: 24650

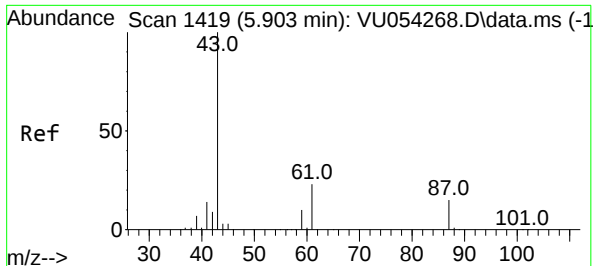
Ion Ratio Lower Upper

117 100

119 5.3 76.8 115.2#

121 0.0 24.7 37.1#





#43

Isopropyl Acetate

Concen: 26.328 ug/l

RT: 5.903 min Scan# 1419

Delta R.T. -0.000 min

Lab File: VU054364.D

Acq: 01 Jun 2023 02:05

Instrument :

MSVOA_U

ClientSampleId :

TP-1

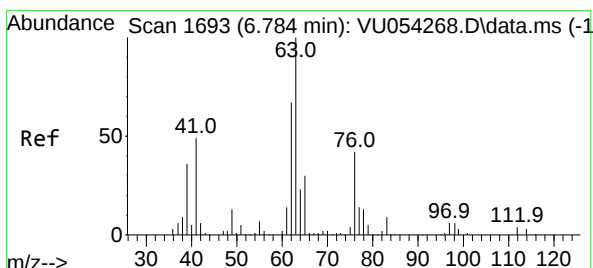
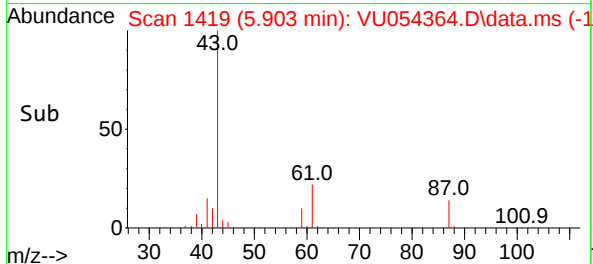
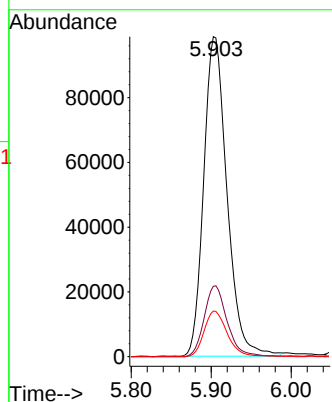
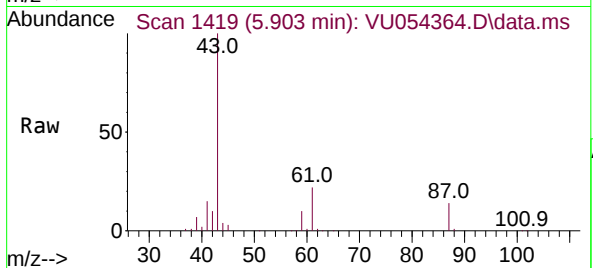
Tgt Ion: 43 Resp: 200044

Ion Ratio Lower Upper

43 100

61 22.0 17.4 26.0

87 14.3 12.6 18.8



#45

1,2-Dichloropropane

Concen: 0.796 ug/l

RT: 7.031 min Scan# 1770

Delta R.T. 0.247 min

Lab File: VU054364.D

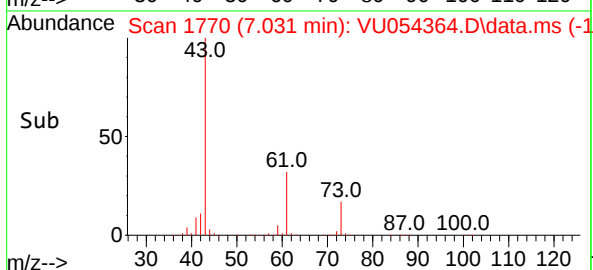
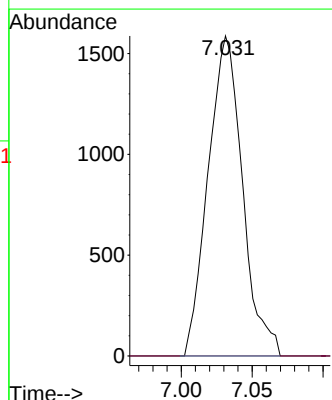
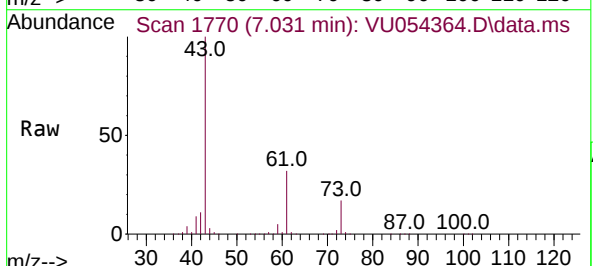
Acq: 01 Jun 2023 02:05

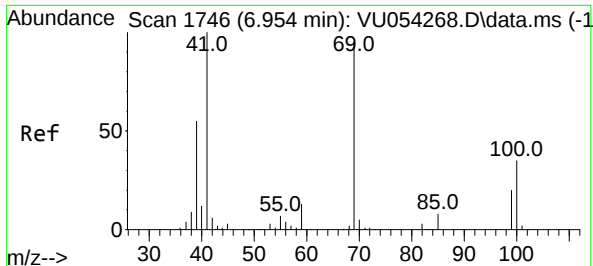
Tgt Ion: 63 Resp: 2677

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.4#

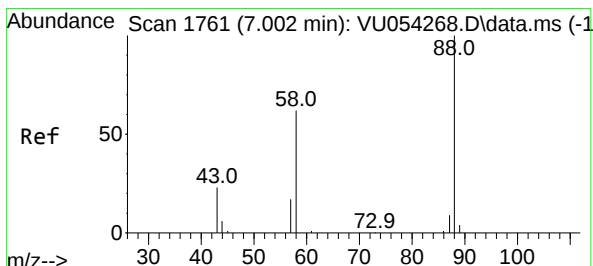
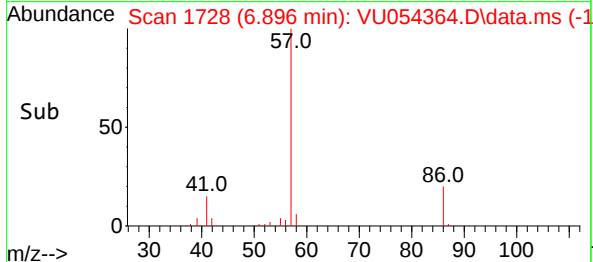
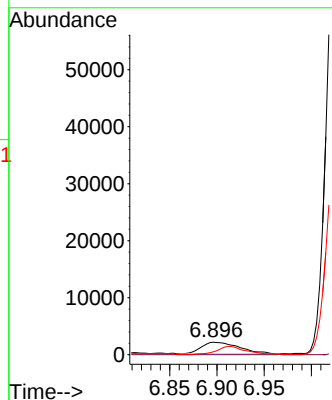
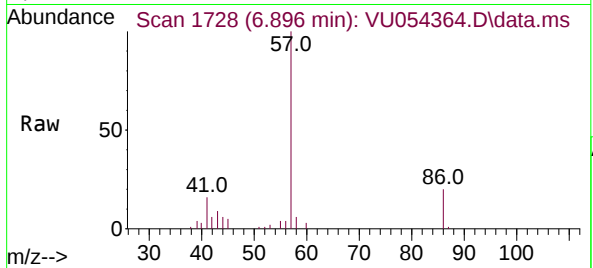




#48
Methyl methacrylate
Concen: 1.704 ug/l
RT: 6.896 min Scan# 1746
Delta R.T. -0.058 min
Lab File: VU054364.D
Acq: 01 Jun 2023 02:05

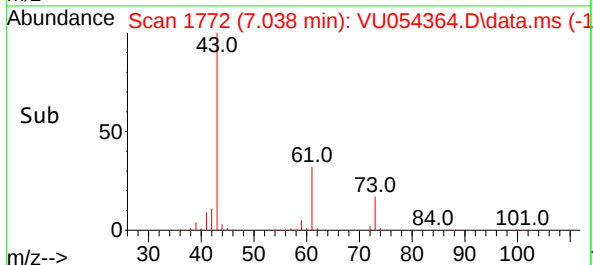
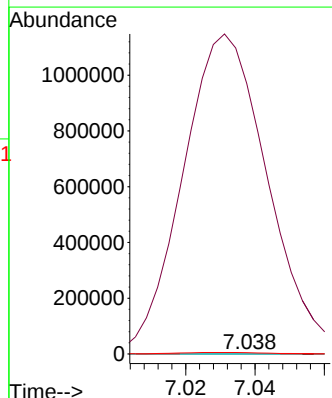
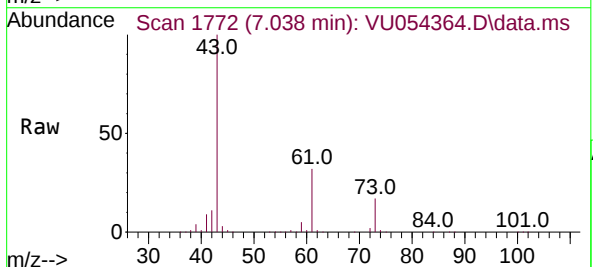
Instrument :
MSVOA_U
ClientSampleId :
TP-1

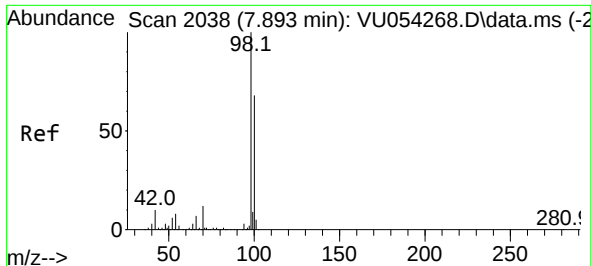
Tgt Ion: 41 Resp: 5743
Ion Ratio Lower Upper
41 100
69 0.0 79.8 119.6#
39 54.2 47.9 71.9



#49
1,4-Dioxane
Concen: 2.334 ug/l
RT: 7.038 min Scan# 1772
Delta R.T. 0.036 min
Lab File: VU054364.D
Acq: 01 Jun 2023 02:05

Tgt Ion: 88 Resp: 227
Ion Ratio Lower Upper
88 100
43 884566.1 0.0 0.0#
58 4448.5 15.4 23.0#

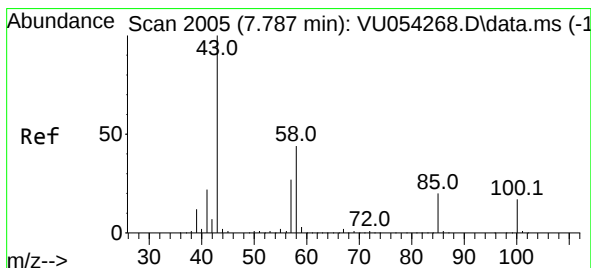
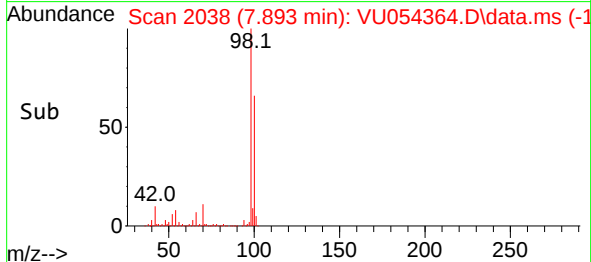
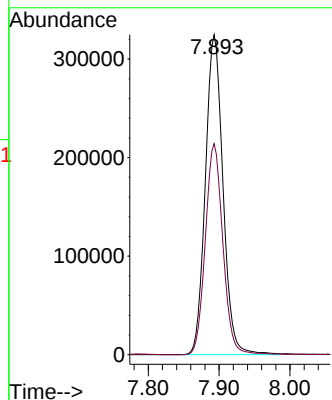
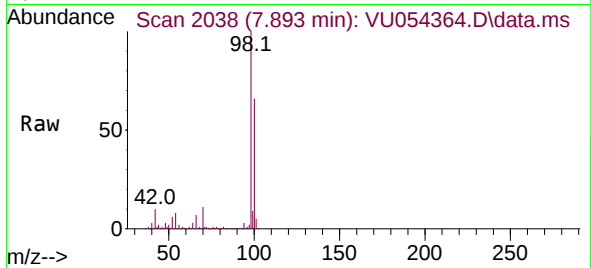




#50
Toluene-d8
Concen: 51.267 ug/l
RT: 7.893 min Scan# 2038
Delta R.T. -0.000 min
Lab File: VU054364.D
Acq: 01 Jun 2023 02:05

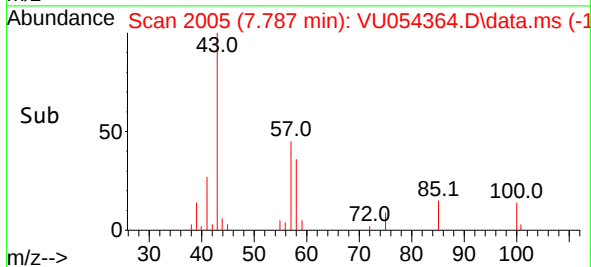
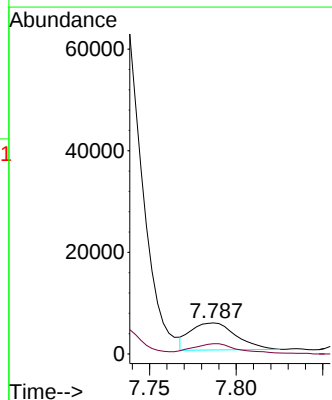
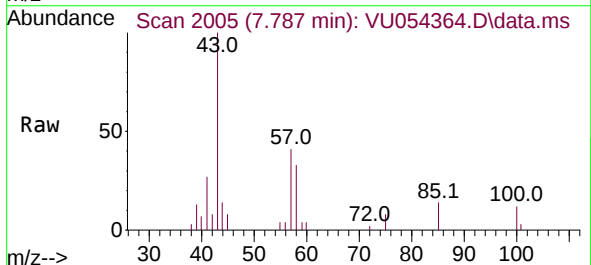
Instrument :
MSVOA_U
ClientSampleId :
TP-1

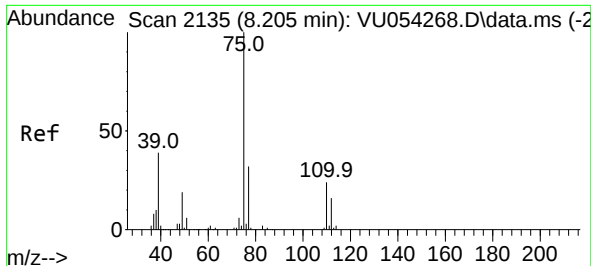
Tgt Ion: 98 Resp: 561149
Ion Ratio Lower Upper
98 100
100 65.7 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 1.909 ug/l
RT: 7.787 min Scan# 2005
Delta R.T. -0.000 min
Lab File: VU054364.D
Acq: 01 Jun 2023 02:05

Tgt Ion: 43 Resp: 9680
Ion Ratio Lower Upper
43 100
58 40.9 34.7 52.1

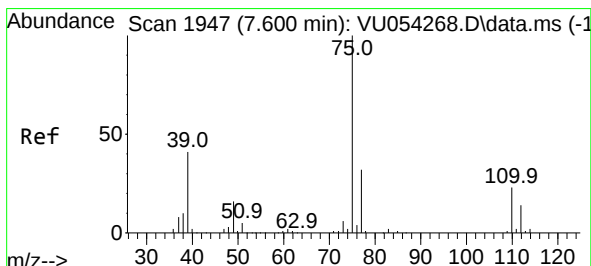
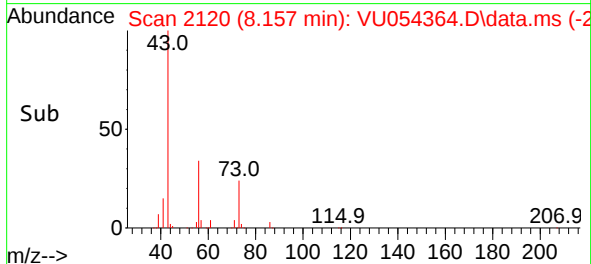
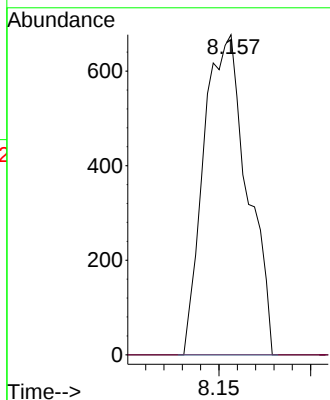
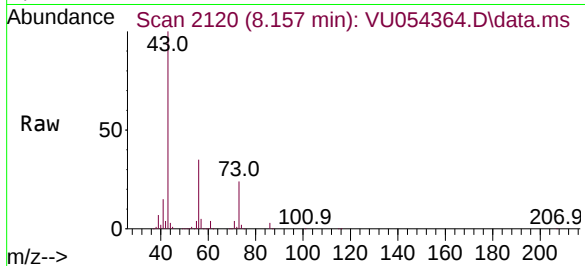




#53
t-1,3-Dichloropropene
Concen: 0.210 ug/l
RT: 8.157 min Scan# 2135
Delta R.T. -0.048 min
Lab File: VU054364.D
Acq: 01 Jun 2023 02:05

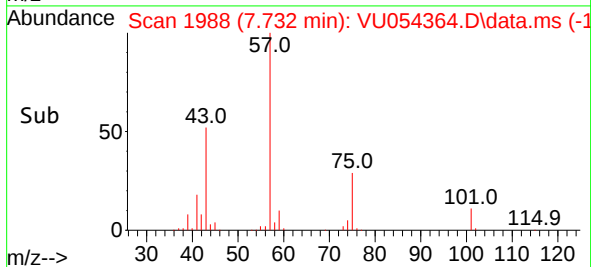
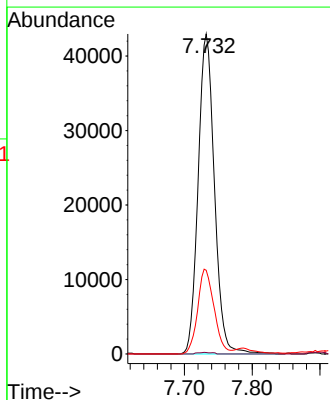
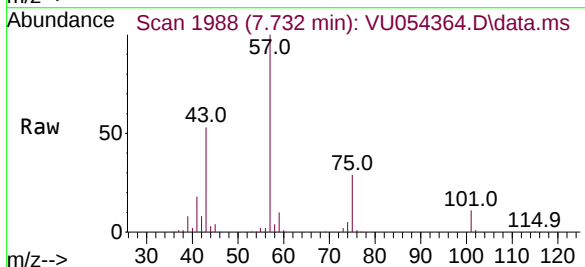
Instrument :
MSVOA_U
ClientSampleId :
TP-1

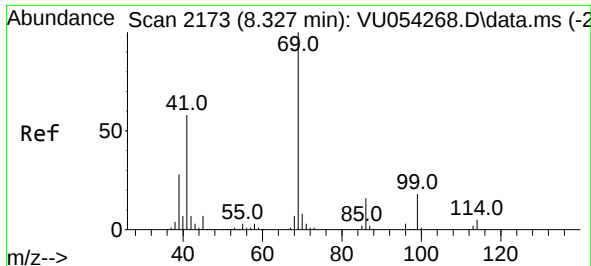
Tgt Ion: 75 Resp: 1114
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.0#



#54
cis-1,3-Dichloropropene
Concen: 12.947 ug/l
RT: 7.732 min Scan# 1988
Delta R.T. 0.132 min
Lab File: VU054364.D
Acq: 01 Jun 2023 02:05

Tgt Ion: 75 Resp: 71568
Ion Ratio Lower Upper
75 100
77 0.5 25.7 38.5#
39 26.2 33.0 49.6#

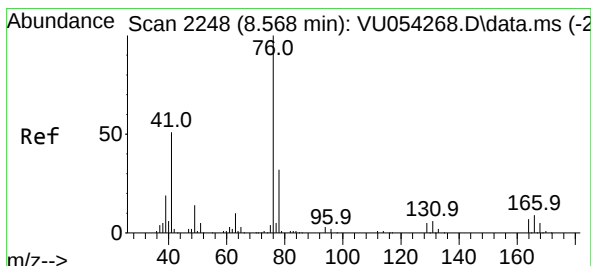
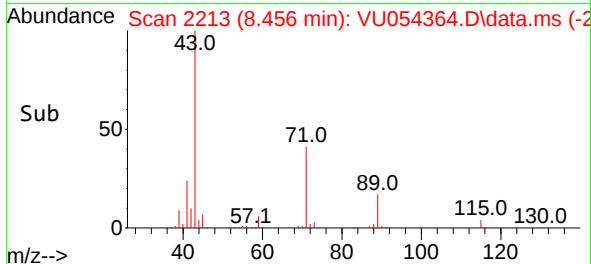
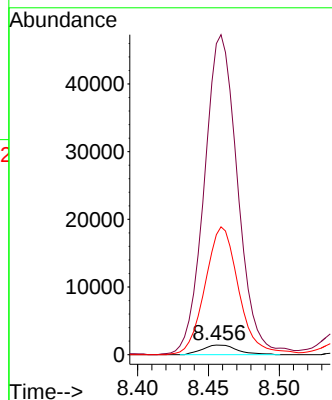
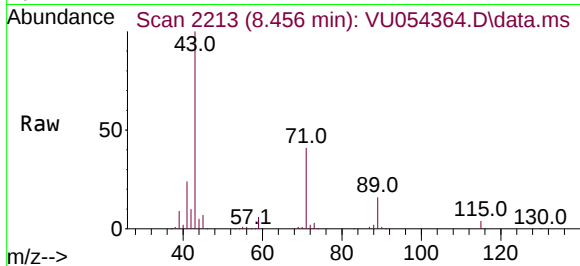




#56
Ethyl methacrylate
Concen: 0.482 ug/l
RT: 8.456 min Scan# 2173
Delta R.T. 0.129 min
Lab File: VU054364.D
Acq: 01 Jun 2023 02:05

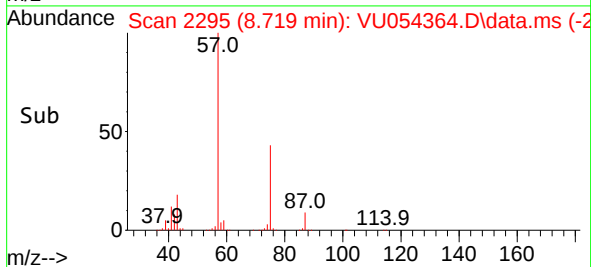
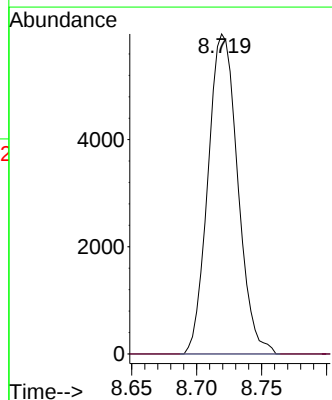
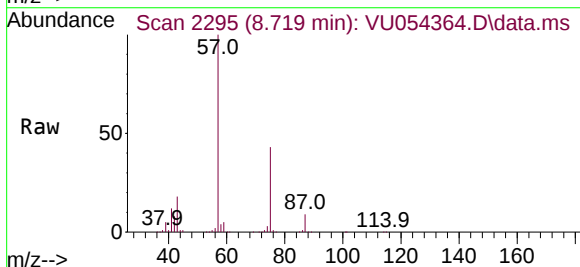
Instrument :
MSVOA_U
ClientSampleId :
TP-1

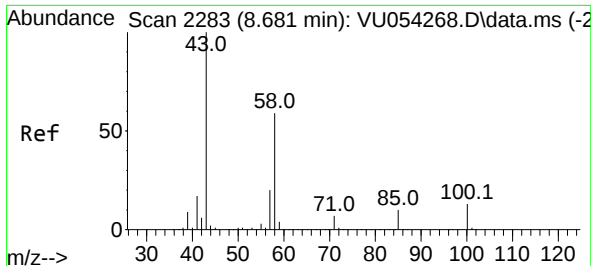
Tgt Ion: 69 Resp: 2446
Ion Ratio Lower Upper
69 100
41 3180.3 45.4 68.0#
39 1280.0 25.7 38.5#



#57
1,3-Dichloropropane
Concen: 1.621 ug/l
RT: 8.719 min Scan# 2295
Delta R.T. 0.151 min
Lab File: VU054364.D
Acq: 01 Jun 2023 02:05

Tgt Ion: 76 Resp: 9508
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#





#59

2-Hexanone

Concen: 29.978 ug/l

RT: 8.719 min Scan# 21

Delta R.T. 0.038 min

Lab File: VU054364.D

Acq: 01 Jun 2023 02:05

Instrument :

MSVOA_U

ClientSampleId :

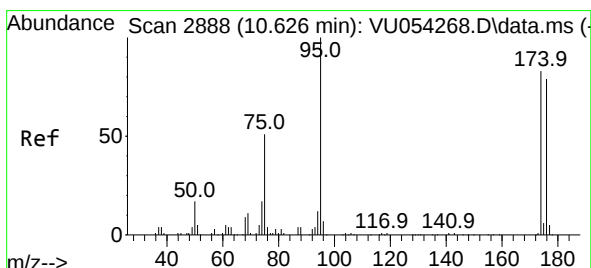
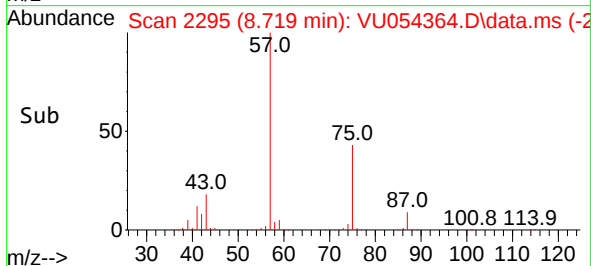
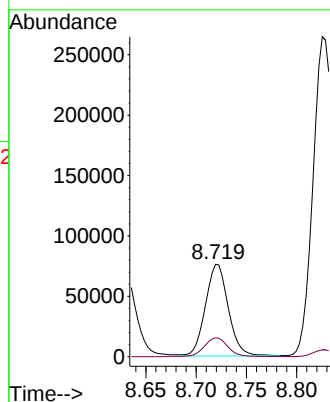
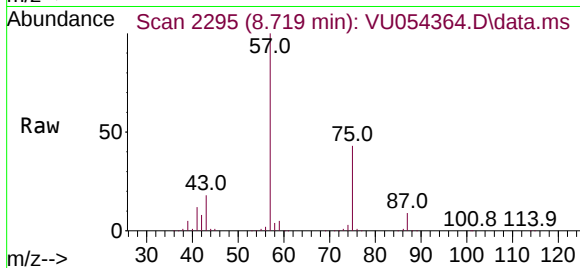
TP-1

Tgt Ion: 43 Resp: 120075

Ion Ratio Lower Upper

43 100

58 21.6 30.3 90.8#



#62

4-Bromofluorobenzene

Concen: 45.492 ug/l

RT: 10.629 min Scan# 2889

Delta R.T. 0.003 min

Lab File: VU054364.D

Acq: 01 Jun 2023 02:05

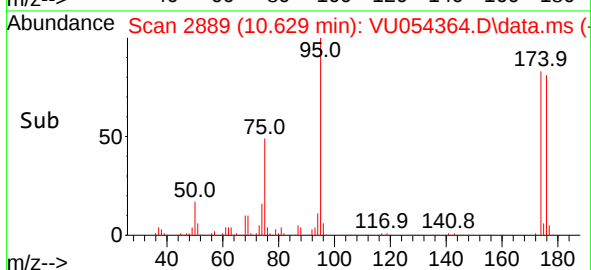
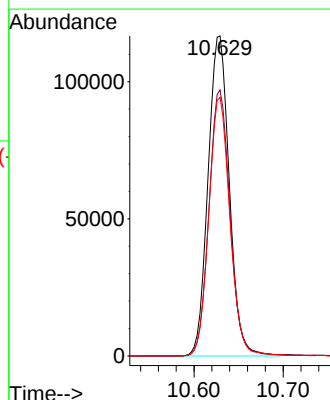
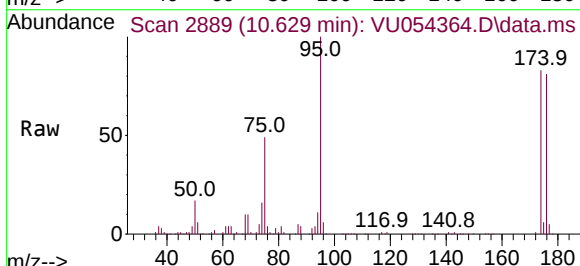
Tgt Ion: 95 Resp: 193075

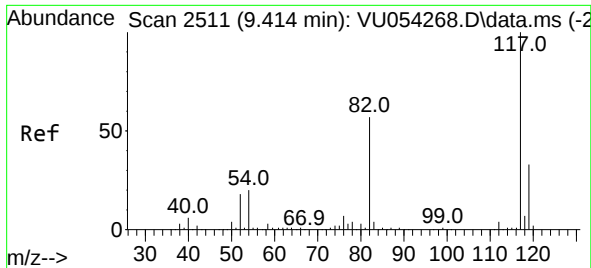
Ion Ratio Lower Upper

95 100

174 82.8 0.0 182.0

176 80.3 0.0 177.8

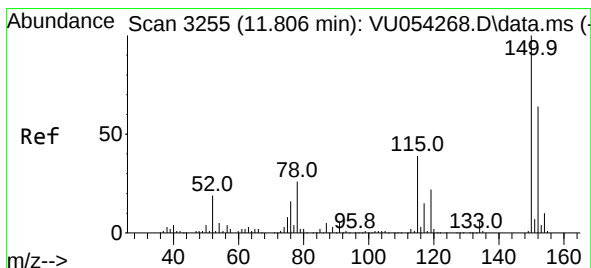
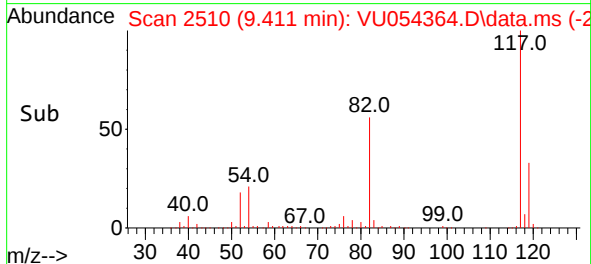
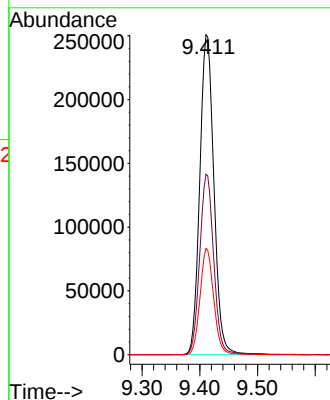
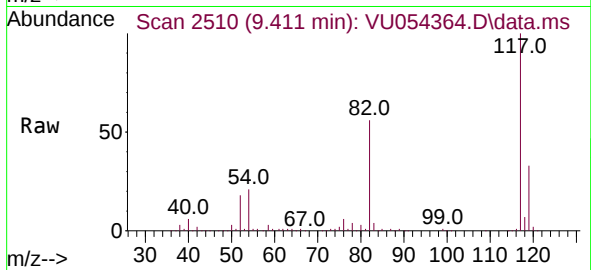




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.411 min Scan# 2511
Delta R.T. -0.003 min
Lab File: VU054364.D
Acq: 01 Jun 2023 02:05

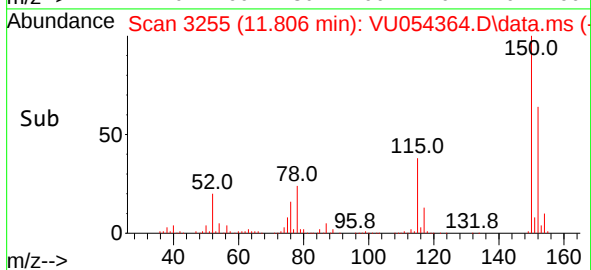
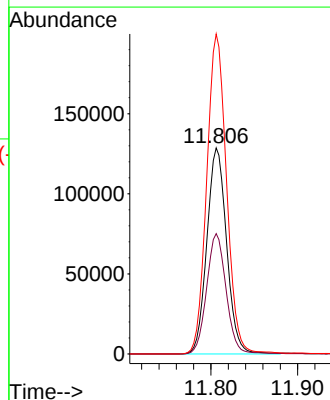
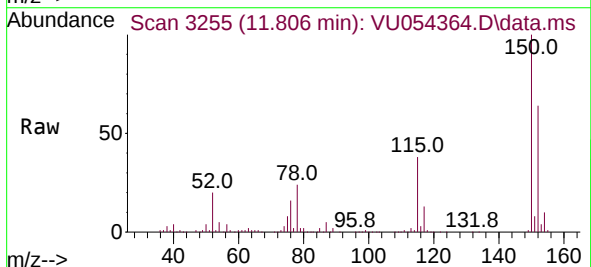
Instrument :
MSVOA_U
ClientSampleId :
TP-1

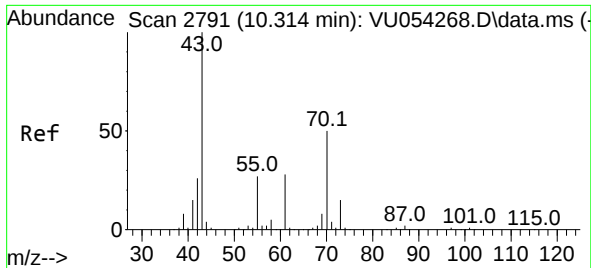
Tgt Ion:117 Resp: 426642
Ion Ratio Lower Upper
117 100
82 56.3 41.7 62.5
119 33.2 25.7 38.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.806 min Scan# 3255
Delta R.T. -0.000 min
Lab File: VU054364.D
Acq: 01 Jun 2023 02:05

Tgt Ion:152 Resp: 204055
Ion Ratio Lower Upper
152 100
115 57.7 37.0 110.9
150 155.7 0.0 342.2

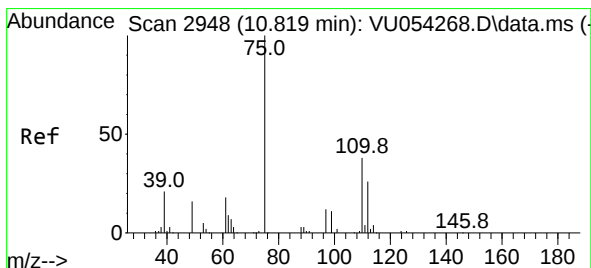
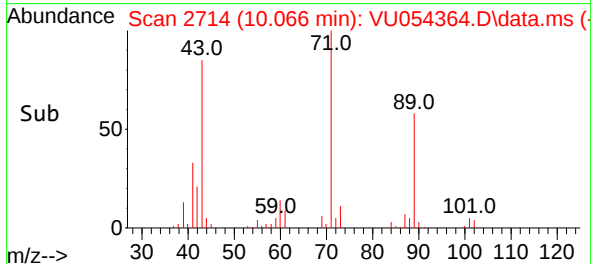
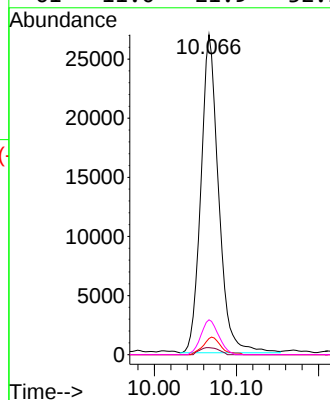
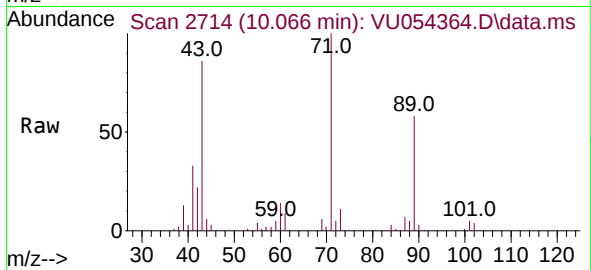




#74
N-amy1 acetate
Concen: 7.513 ug/l
RT: 10.066 min Scan# 21
Delta R.T. -0.248 min
Lab File: VU054364.D
Acq: 01 Jun 2023 02:05

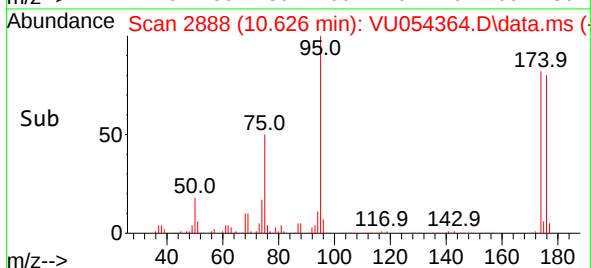
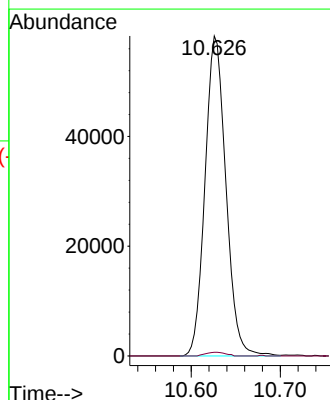
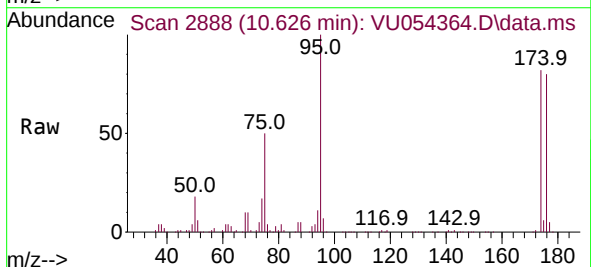
Instrument :
MSVOA_U
ClientSampleId :
TP-1

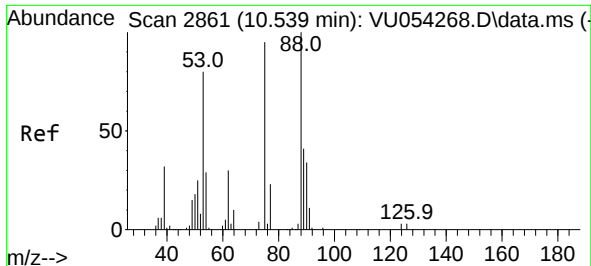
Tgt Ion: 43	Resp: 40317
Ion Ratio	Lower Upper
43	100
70	2.4 38.7 58.1#
55	5.5 21.8 32.8#
61	11.0 21.9 32.9#



#76
1,2,3-Trichloropropane
Concen: 15.963 ug/l
RT: 10.626 min Scan# 2888
Delta R.T. -0.193 min
Lab File: VU054364.D
Acq: 01 Jun 2023 02:05

Tgt Ion: 75	Resp: 95069
Ion Ratio	Lower Upper
75	100
77	1.1 15.8 47.3#

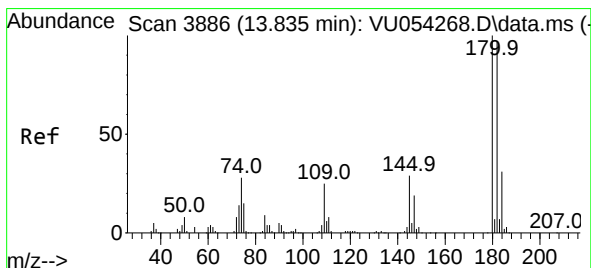
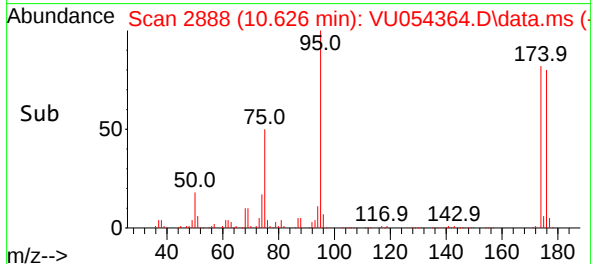
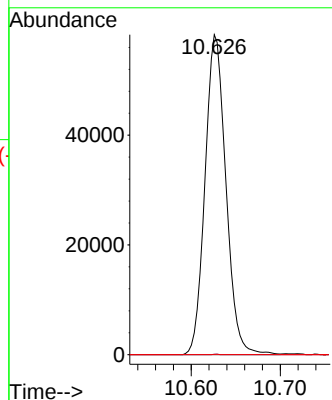
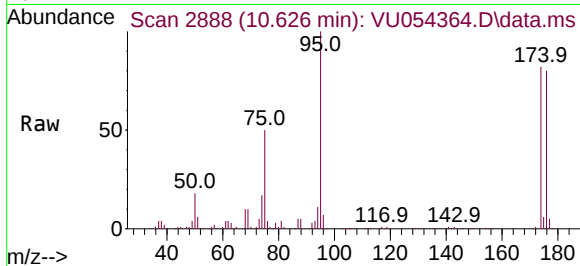




#81
trans-1,4-Dichloro-2-butene
Concen: 60.787 ug/l
RT: 10.626 min Scan# 2888
Delta R.T. 0.087 min
Lab File: VU054364.D
Acq: 01 Jun 2023 02:05

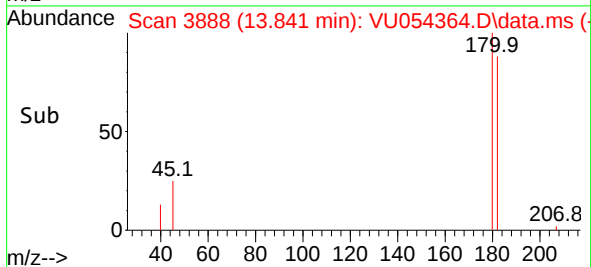
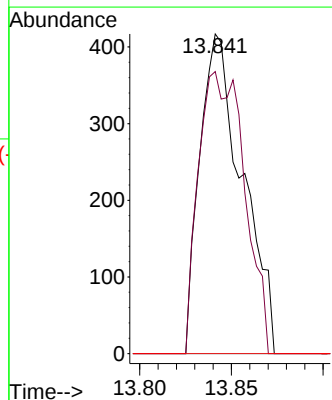
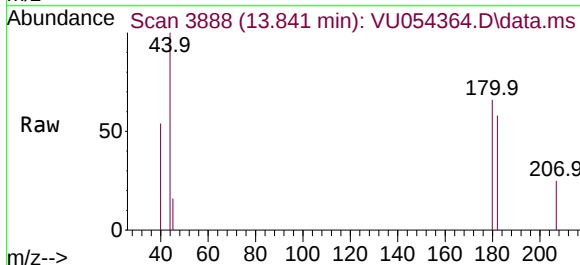
Instrument :
MSVOA_U
ClientSampleId :
TP-1

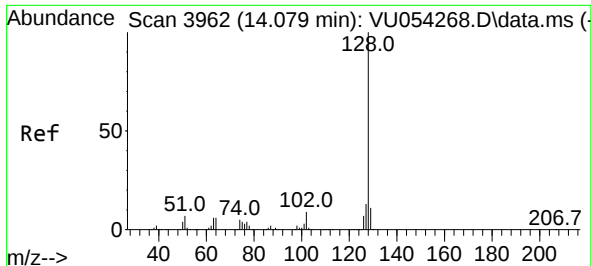
Tgt Ion: 75 Resp: 95069
Ion Ratio Lower Upper
75 100
53 0.0 69.2 103.8#
89 0.0 37.0 55.6#



#93
1,2,4-Trichlorobenzene
Concen: 1.782 ug/l
RT: 13.841 min Scan# 3888
Delta R.T. 0.006 min
Lab File: VU054364.D
Acq: 01 Jun 2023 02:05

Tgt Ion:180 Resp: 674
Ion Ratio Lower Upper
180 100
182 95.1 47.9 143.6
145 0.0 14.0 41.9#

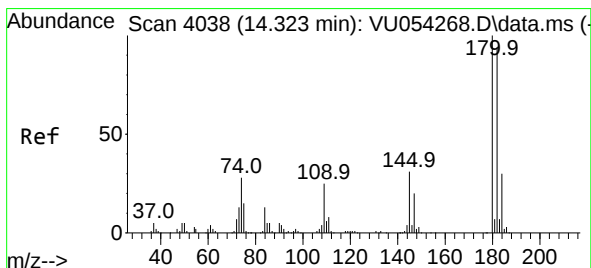
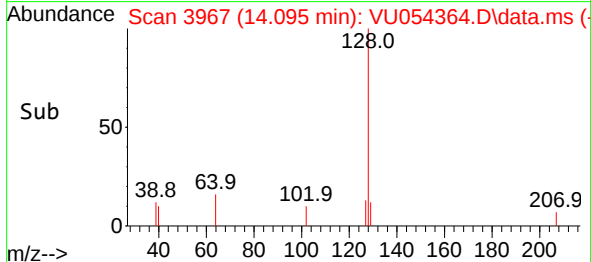
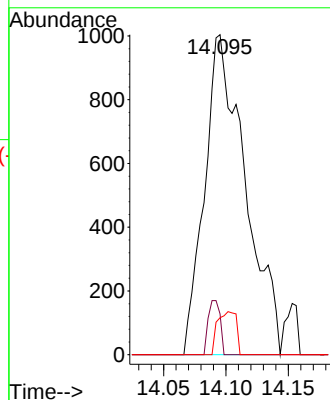
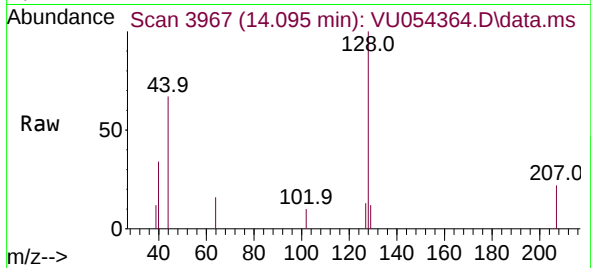




#95
Naphthalene
Concen: 2.136 ug/l
RT: 14.095 min Scan# 3967
Delta R.T. 0.016 min
Lab File: VU054364.D
Acq: 01 Jun 2023 02:05

Instrument : MSVOA_U
ClientSampleId : TP-1

Tgt Ion:128	Resp:	2275
Ion Ratio	Lower	Upper
128	100	
127	4.9	10.3 15.5#
129	6.2	8.6 13.0#



#96
1,2,3-Trichlorobenzene
Concen: 1.362 ug/l
RT: 14.336 min Scan# 4042
Delta R.T. 0.013 min
Lab File: VU054364.D
Acq: 01 Jun 2023 02:05

Tgt Ion:180	Resp:	511
Ion Ratio	Lower	Upper
180	100	
182	82.0	48.4 145.0
145	7.8	14.8 44.4#

