

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU053123\
 Data File : VU054365.D
 Acq On : 01 Jun 2023 02:29
 Operator : JC/MD
 Sample : 02976-02
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 TP-2

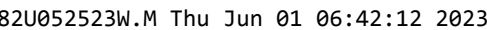
Quant Time: Jun 01 06:42:01 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U052523W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 26 06:40:51 2023
 Response via : Initial Calibration

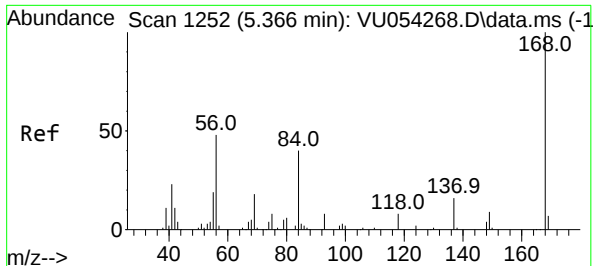
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	5.369	168	257721	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.243	114	459797	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.410	117	433961	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.806	152	213237	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.694	65	182151	53.915	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 107.840%			
35) Dibromofluoromethane	5.282	113	149103	50.356	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.720%			
50) Toluene-d8	7.893	98	567377	50.377	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 100.760%			
62) 4-Bromofluorobenzene	10.626	95	199256	45.627	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 91.260%			
Target Compounds						
					Qvalue	
10) Methyl Iodide	2.723	142	276	2.413	ug/l #	43
13) Acrolein	2.488	56	193	0.203	ug/l #	66
16) Acetone	2.626	43	41256	21.304	ug/l	95
18) Methyl Acetate	2.954	43	5149	0.728	ug/l #	82
20) Methylene Chloride	3.044	84	17687	5.063	ug/l	94
25) 2-Butanone	4.735	43	2845	1.110	ug/l	94
29) Tetrahydrofuran	5.070	42	1208	0.750	ug/l #	27
31) Cyclohexane	5.366	56	5037	1.056	ug/l #	1
36) 1,1-Dichloropropene	5.366	75	19621	4.219	ug/l #	48
37) Ethyl Acetate	4.800	43	55440	9.781	ug/l #	93
38) Carbon Tetrachloride	5.369	117	24693	5.187	ug/l #	16
43) Isopropyl Acetate	5.903	43	203804	26.068	ug/l	97
45) 1,2-Dichloropropane	7.028	63	2861	0.827	ug/l #	43
48) Methyl methacrylate	6.902	41	6280	1.811	ug/l #	32
49) 1,4-Dioxane	7.012	88	45	0.450	ug/l #	58
51) 4-Methyl-2-Pentanone	7.787	43	9793	1.877	ug/l	94
53) t-1,3-Dichloropropene	8.147	75	1168	0.214	ug/l #	43
54) cis-1,3-Dichloropropene	7.732	75	72252	12.703	ug/l #	61
57) 1,3-Dichloropropane	8.719	76	10021	1.660	ug/l #	42
59) 2-Hexanone	8.722	43	121740	29.538	ug/l #	49
74) N-amyl acetate	10.066	43	40294	7.186	ug/l #	48
76) 1,2,3-Trichloropropane	10.626	75	98437	15.817	ug/l #	45
81) trans-1,4-Dichloro-2-b...	10.626	75	98437	60.230	ug/l #	15
93) 1,2,4-Trichlorobenzene	13.848	180	466	1.735	ug/l #	79
94) Hexachlorobutadiene	14.015	225	46	0.840	ug/l #	19
95) Naphthalene	14.095	128	2004	2.113	ug/l #	74
96) 1,2,3-Trichlorobenzene	14.327	180	479	1.351	ug/l #	71

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

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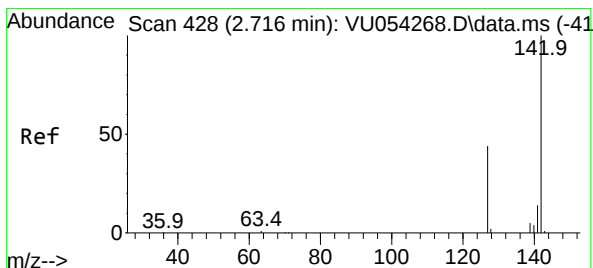
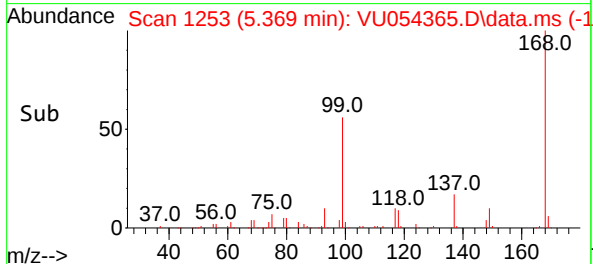
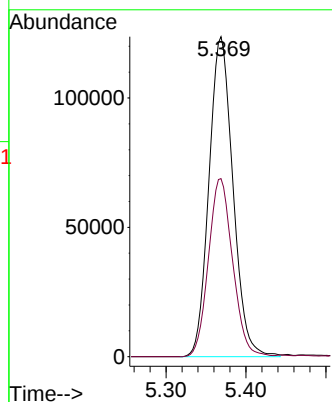
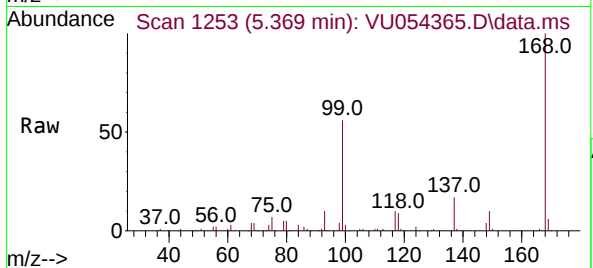




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.369 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU054365.D
Acq: 01 Jun 2023 02:29

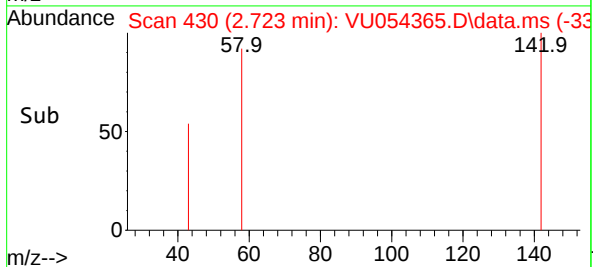
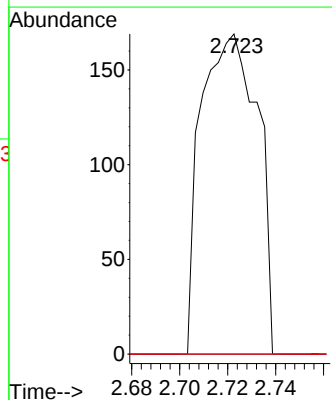
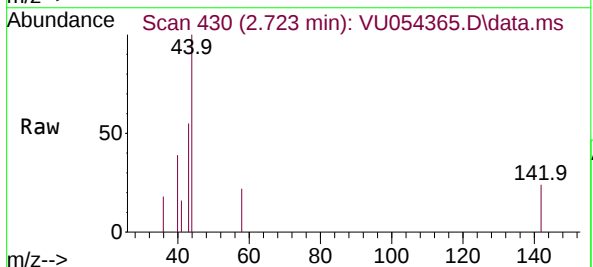
Instrument :
MSVOA_U
ClientSampleId :
TP-2

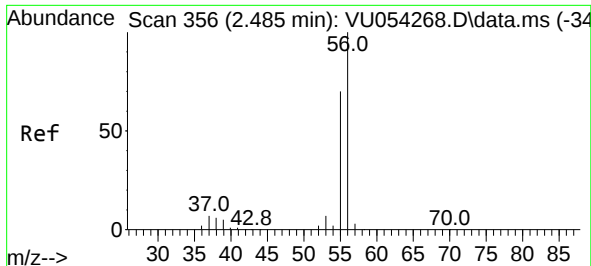
Tgt Ion:168 Resp: 257721
Ion Ratio Lower Upper
168 100
99 55.6 39.3 58.9



#10
Methyl Iodide
Concen: 2.413 ug/l
RT: 2.723 min Scan# 430
Delta R.T. 0.007 min
Lab File: VU054365.D
Acq: 01 Jun 2023 02:29

Tgt Ion:142 Resp: 276
Ion Ratio Lower Upper
142 100
127 0.0 32.5 48.7#
141 0.0 11.4 17.0#





#13

Acrolein

Concen: 0.203 ug/l

RT: 2.488 min Scan# 31

Delta R.T. 0.003 min

Lab File: VU054365.D

Acq: 01 Jun 2023 02:29

Instrument :

MSVOA_U

ClientSampleId :

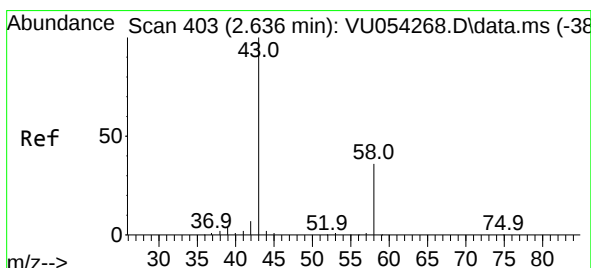
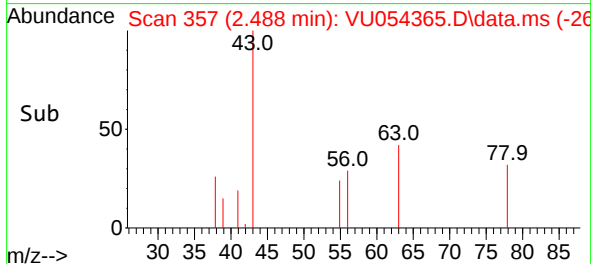
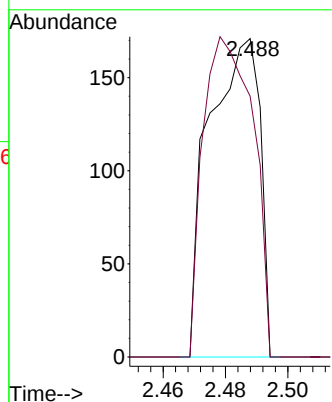
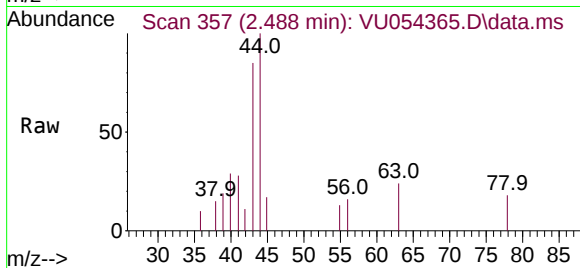
TP-2

Tgt Ion: 56 Resp: 193

Ion Ratio Lower Upper

56 100

55 99.0 56.6 85.0#



#16

Acetone

Concen: 21.304 ug/l

RT: 2.626 min Scan# 400

Delta R.T. -0.010 min

Lab File: VU054365.D

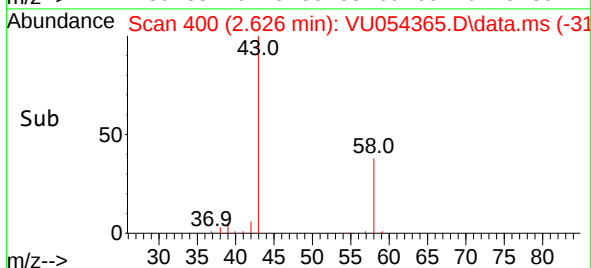
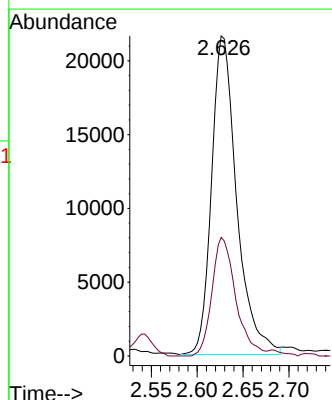
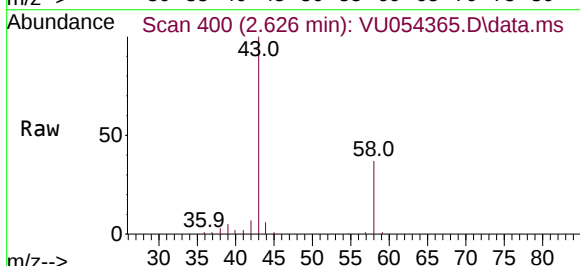
Acq: 01 Jun 2023 02:29

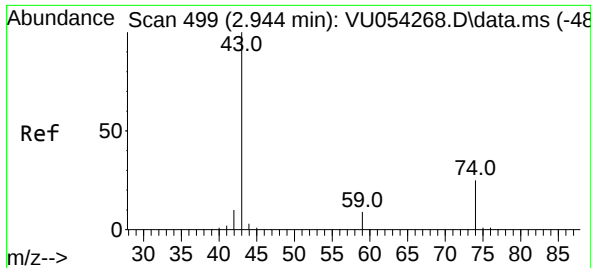
Tgt Ion: 43 Resp: 41256

Ion Ratio Lower Upper

43 100

58 37.2 27.5 41.3

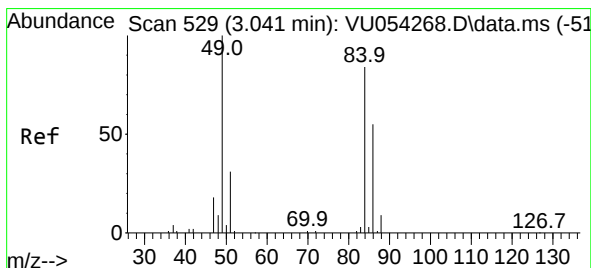
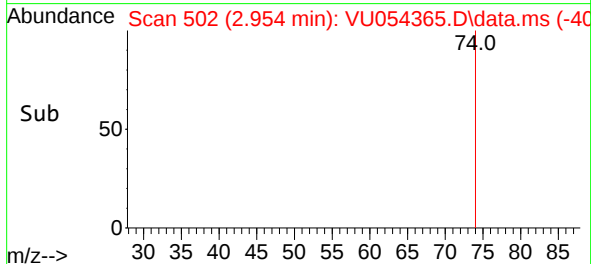
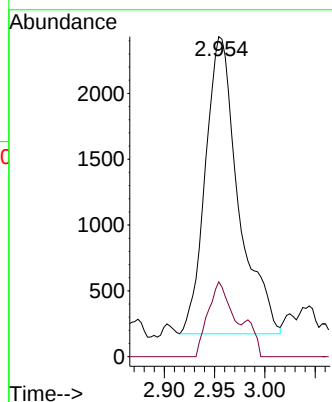
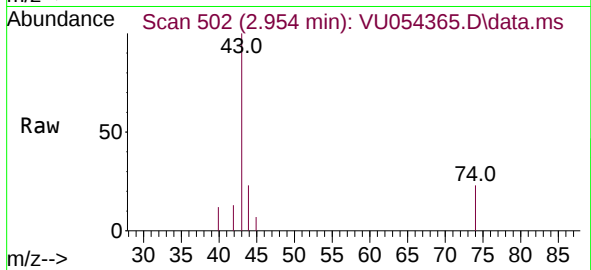




#18
Methyl Acetate
Concen: 0.728 ug/l
RT: 2.954 min Scan# 502
Delta R.T. 0.010 min
Lab File: VU054365.D
Acq: 01 Jun 2023 02:29

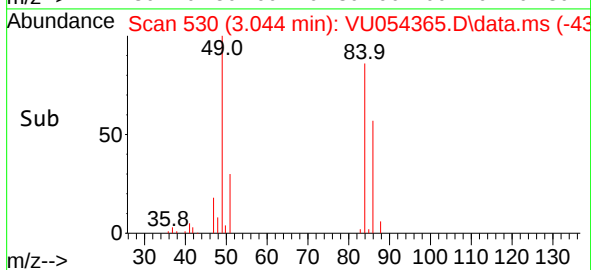
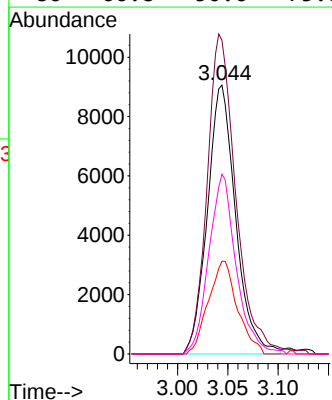
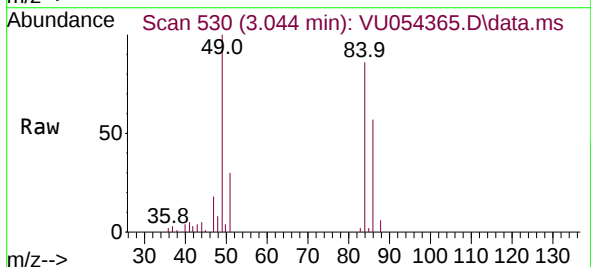
Instrument :
MSVOA_U
ClientSampleId :
TP-2

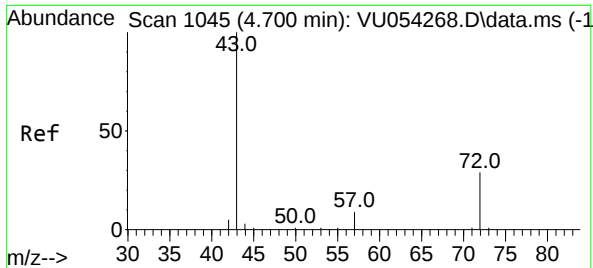
Tgt Ion: 43 Resp: 5149
Ion Ratio Lower Upper
43 100
74 18.5 22.5 33.7#



#20
Methylene Chloride
Concen: 5.063 ug/l
RT: 3.044 min Scan# 530
Delta R.T. 0.003 min
Lab File: VU054365.D
Acq: 01 Jun 2023 02:29

Tgt Ion: 84 Resp: 17687
Ion Ratio Lower Upper
84 100
49 116.6 86.6 129.8
51 34.5 26.6 40.0
86 66.8 50.6 75.8





#25

2-Butanone

Concen: 1.110 ug/l

RT: 4.735 min Scan# 1105

Delta R.T. 0.035 min

Lab File: VU054365.D

Acq: 01 Jun 2023 02:29

Instrument :

MSVOA_U

ClientSampleId :

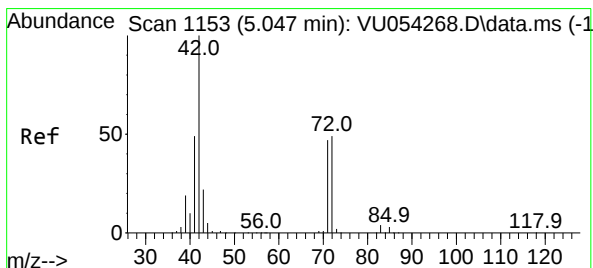
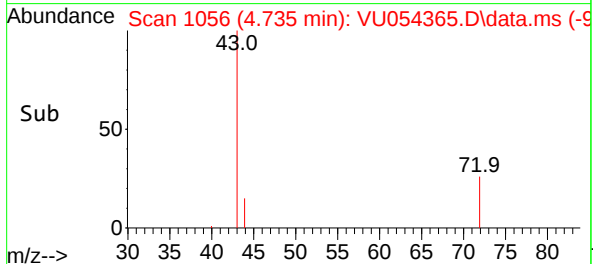
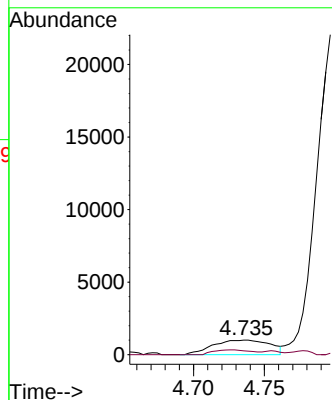
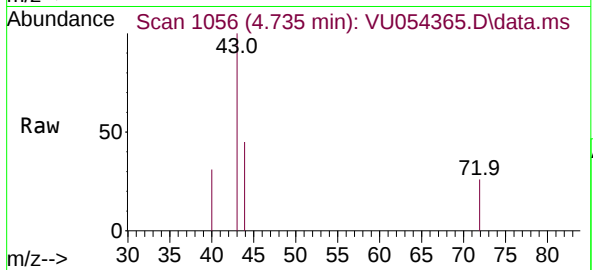
TP-2

Tgt Ion: 43 Resp: 2845

Ion Ratio Lower Upper

43 100

72 26.4 23.8 35.6



#29

Tetrahydrofuran

Concen: 0.750 ug/l

RT: 5.070 min Scan# 1160

Delta R.T. 0.023 min

Lab File: VU054365.D

Acq: 01 Jun 2023 02:29

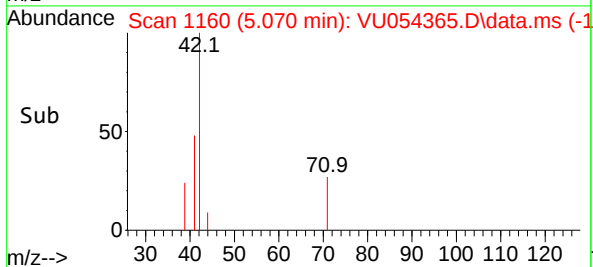
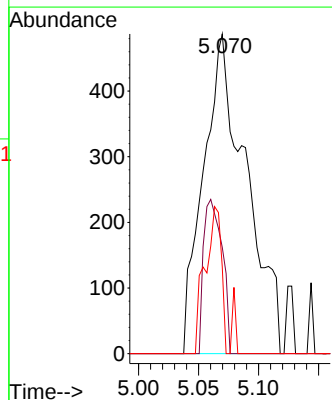
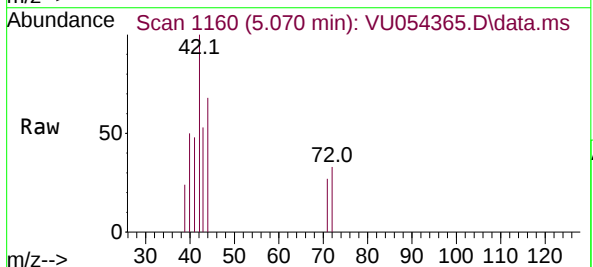
Tgt Ion: 42 Resp: 1208

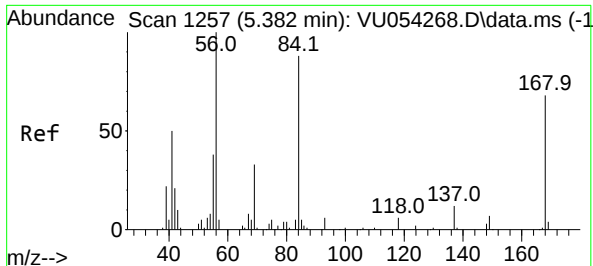
Ion Ratio Lower Upper

42 100

72 0.0 42.6 63.8#

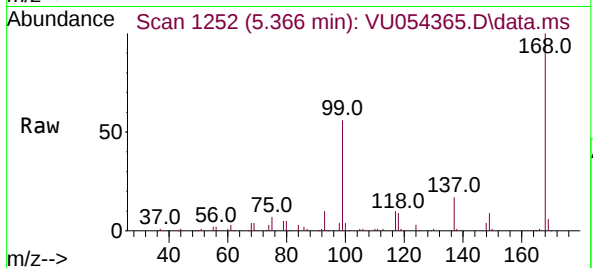
71 1.6 40.3 60.5#



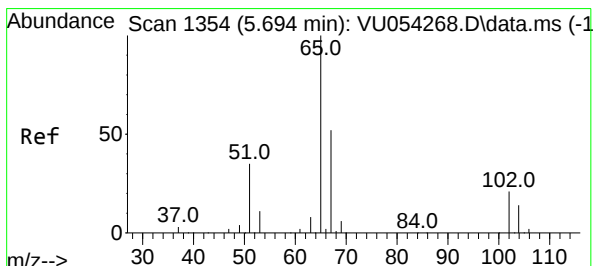
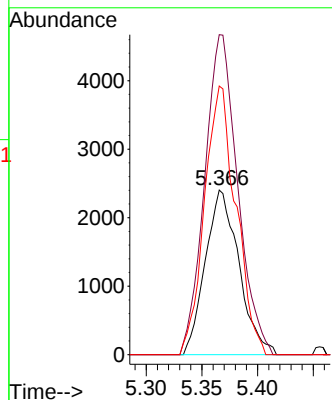
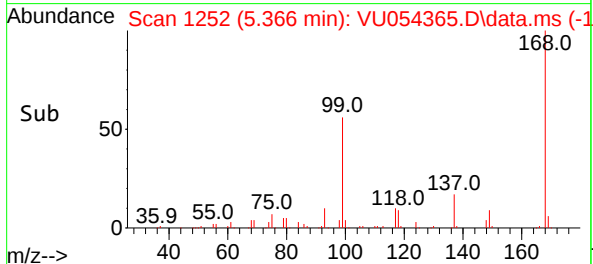


#31
Cyclohexane
Concen: 1.056 ug/l
RT: 5.366 min Scan# 1252
Delta R.T. -0.016 min
Lab File: VU054365.D
Acq: 01 Jun 2023 02:29

Instrument :
MSVOA_U
ClientSampleId :
TP-2

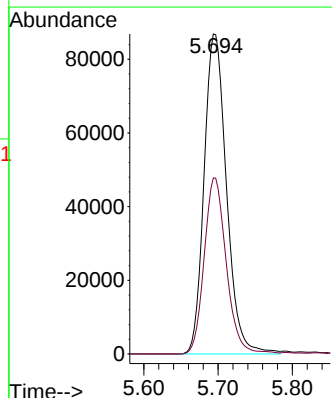
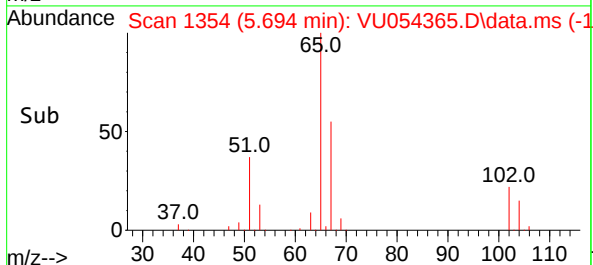
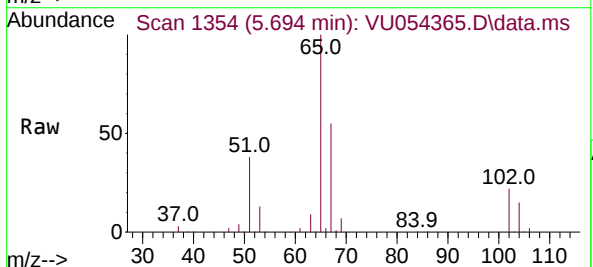


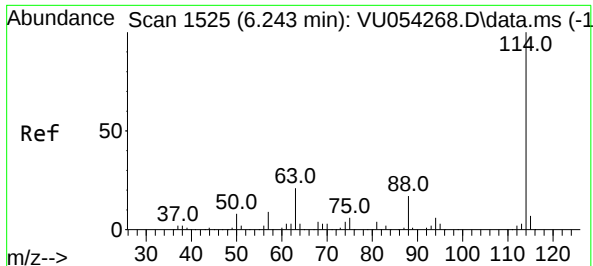
Tgt Ion: 56 Resp: 5037
Ion Ratio Lower Upper
56 100
69 194.3 27.8 41.8#
84 163.1 74.2 111.4#



#33
1,2-Dichloroethane-d4
Concen: 53.915 ug/l
RT: 5.694 min Scan# 1354
Delta R.T. -0.000 min
Lab File: VU054365.D
Acq: 01 Jun 2023 02:29

Tgt Ion: 65 Resp: 182151
Ion Ratio Lower Upper
65 100
67 54.2 0.0 108.0

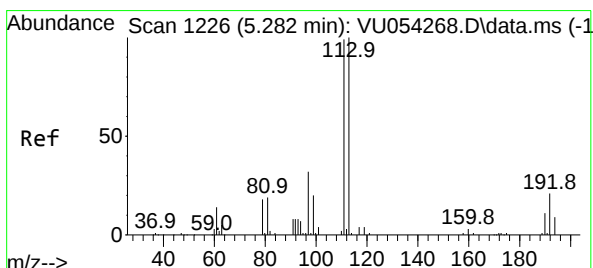
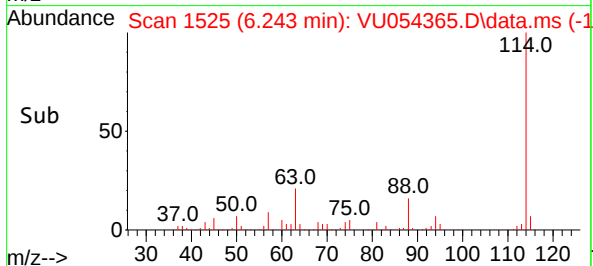
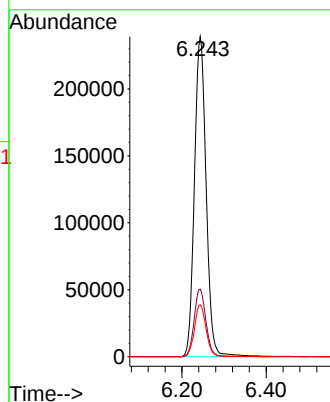
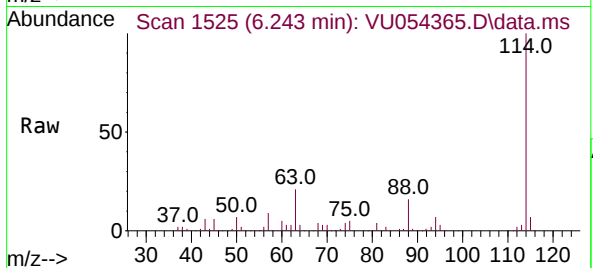




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.243 min Scan# 114
Delta R.T. 0.000 min
Lab File: VU054365.D
Acq: 01 Jun 2023 02:29

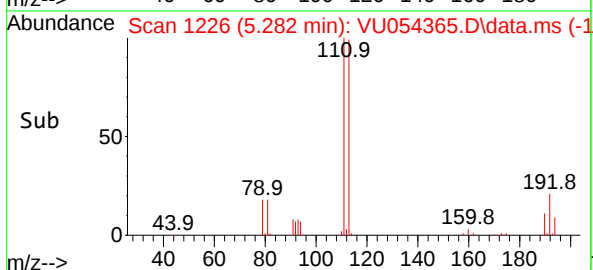
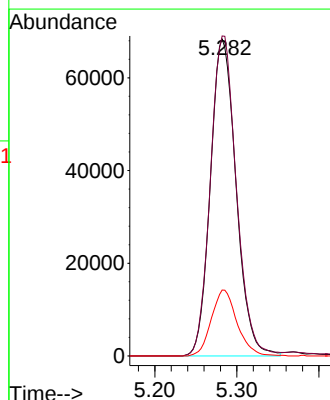
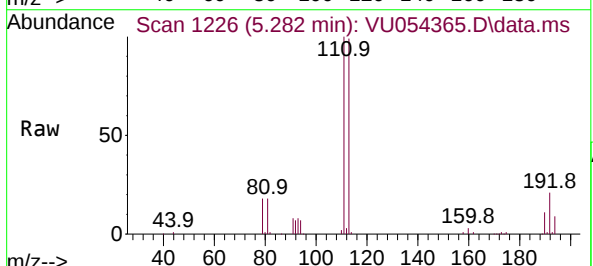
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ClientSampleId :
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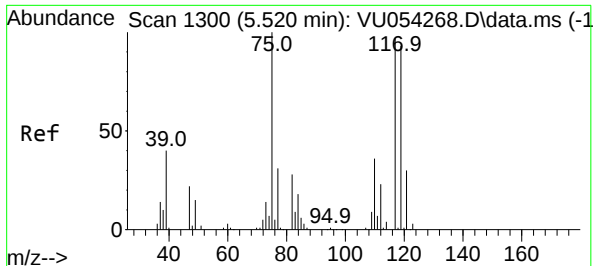
Tgt Ion:114 Resp: 459797
Ion Ratio Lower Upper
114 100
63 21.1 0.0 37.8
88 16.3 0.0 29.2



#35
Dibromofluoromethane
Concen: 50.356 ug/l
RT: 5.282 min Scan# 1226
Delta R.T. -0.000 min
Lab File: VU054365.D
Acq: 01 Jun 2023 02:29

Tgt Ion:113 Resp: 149103
Ion Ratio Lower Upper
113 100
111 102.1 82.1 123.1
192 20.8 18.0 27.0





#36

1,1-Dichloropropene

Concen: 4.219 ug/l

RT: 5.366 min Scan# 11

Delta R.T. -0.154 min

Lab File: VU054365.D

Acq: 01 Jun 2023 02:29

Instrument :

MSVOA_U

ClientSampleId :

TP-2

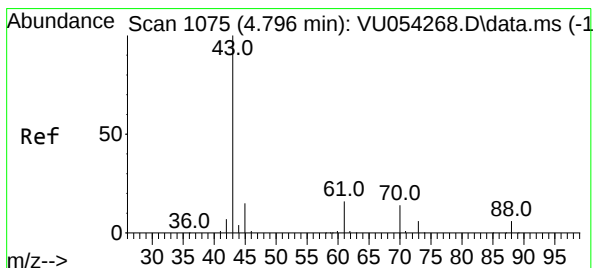
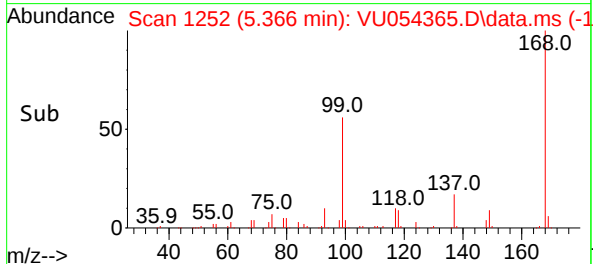
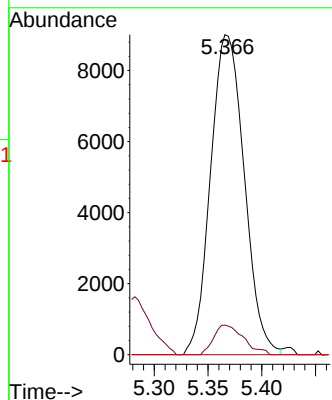
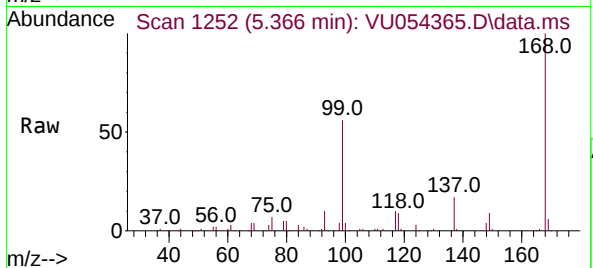
Tgt Ion: 75 Resp: 19621

Ion Ratio Lower Upper

75 100

110 8.2 18.4 55.2#

77 0.0 25.1 37.7#



#37

Ethyl Acetate

Concen: 9.781 ug/l

RT: 4.800 min Scan# 1076

Delta R.T. 0.004 min

Lab File: VU054365.D

Acq: 01 Jun 2023 02:29

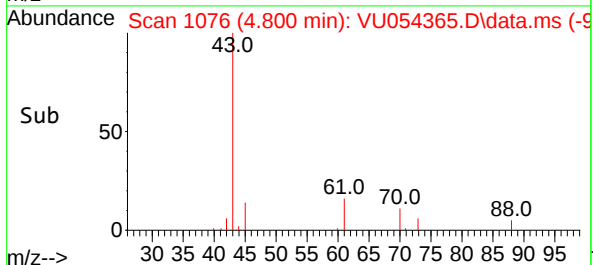
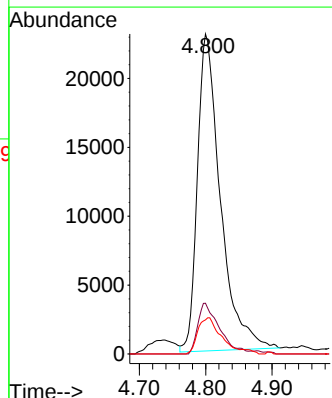
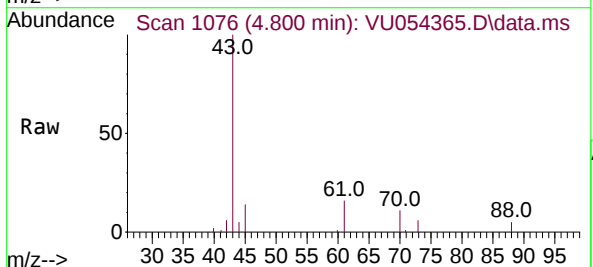
Tgt Ion: 43 Resp: 55440

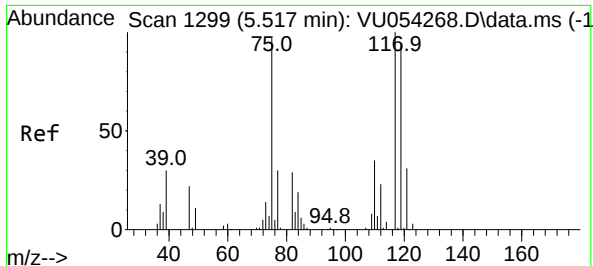
Ion Ratio Lower Upper

43 100

61 15.0 9.5 14.3#

70 11.4 7.5 11.3#

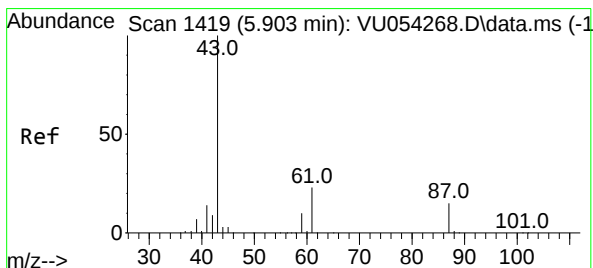
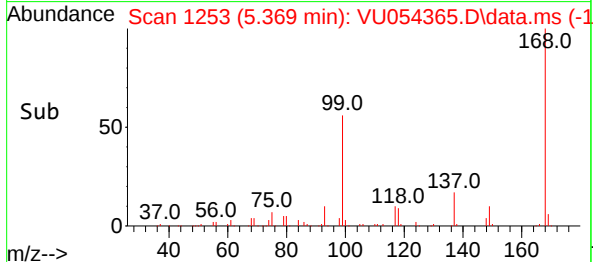
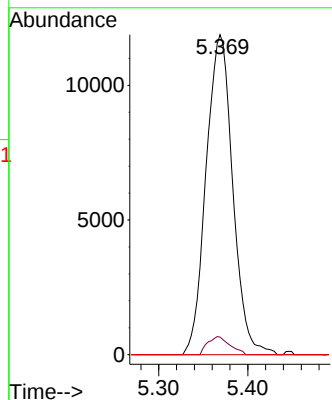
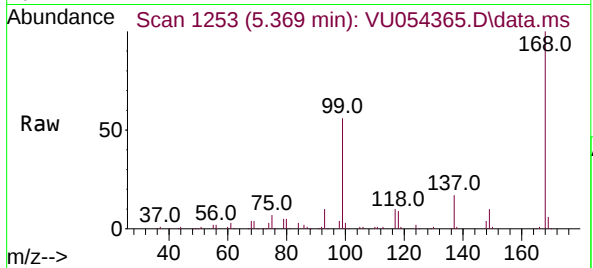




#38
Carbon Tetrachloride
Concen: 5.187 ug/l
RT: 5.369 min Scan# 117
Delta R.T. -0.148 min
Lab File: VU054365.D
Acq: 01 Jun 2023 02:29

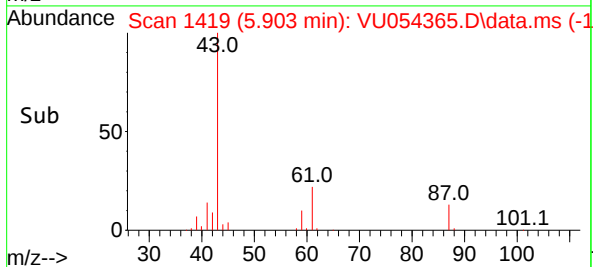
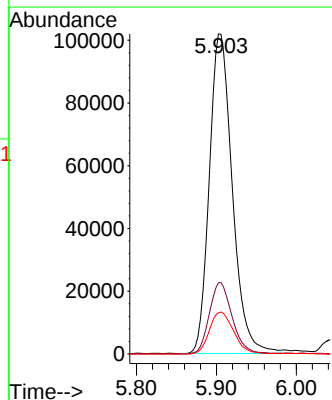
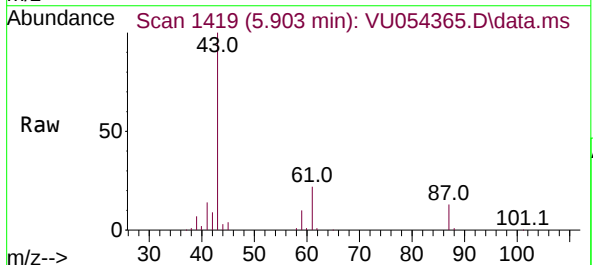
Instrument :
MSVOA_U
ClientSampleId :
TP-2

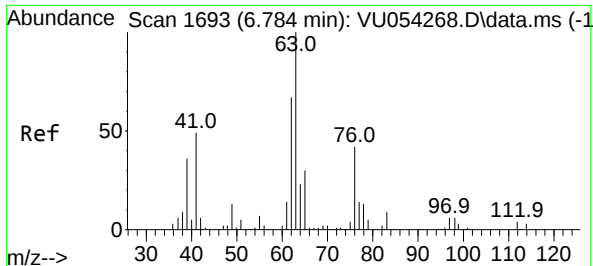
Tgt Ion:117 Resp: 24693
Ion Ratio Lower Upper
117 100
119 5.5 76.8 115.2#
121 0.0 24.7 37.1#



#43
Isopropyl Acetate
Concen: 26.068 ug/l
RT: 5.903 min Scan# 1419
Delta R.T. -0.000 min
Lab File: VU054365.D
Acq: 01 Jun 2023 02:29

Tgt Ion: 43 Resp: 203804
Ion Ratio Lower Upper
43 100
61 22.3 17.4 26.0
87 13.8 12.6 18.8





#45

1,2-Dichloropropane

Concen: 0.827 ug/l

RT: 7.028 min Scan# 1

Delta R.T. 0.244 min

Lab File: VU054365.D

Acq: 01 Jun 2023 02:29

Instrument :

MSVOA_U

ClientSampleId :

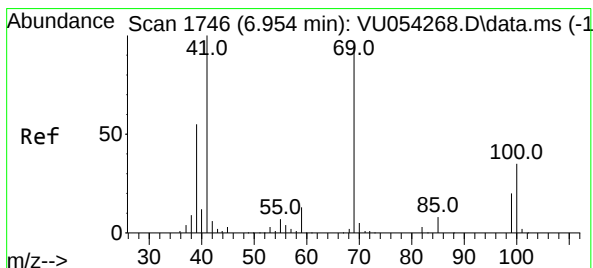
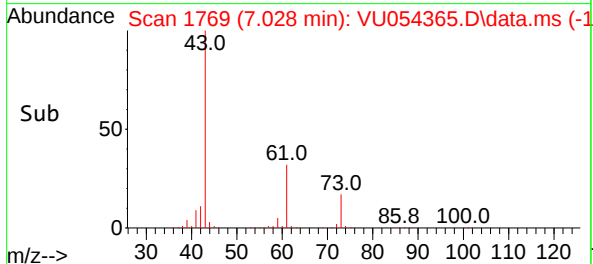
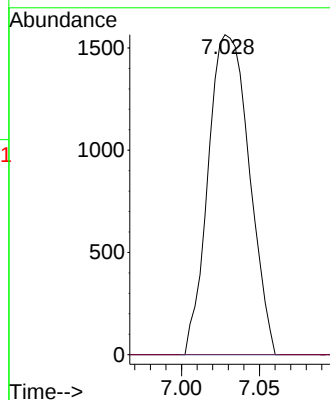
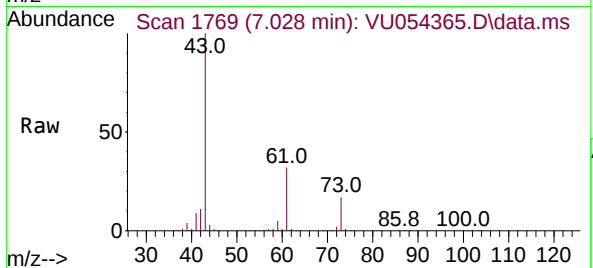
TP-2

Tgt Ion: 63 Resp: 2861

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.4#



#48

Methyl methacrylate

Concen: 1.811 ug/l

RT: 6.902 min Scan# 1730

Delta R.T. -0.051 min

Lab File: VU054365.D

Acq: 01 Jun 2023 02:29

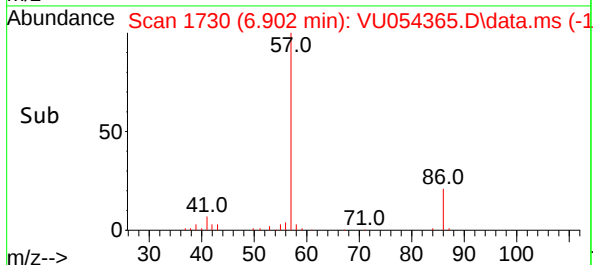
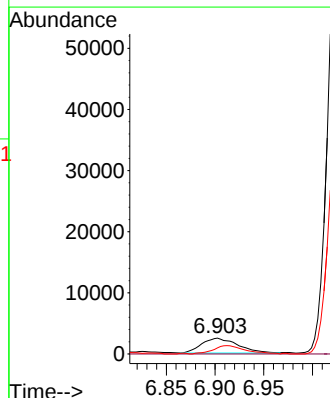
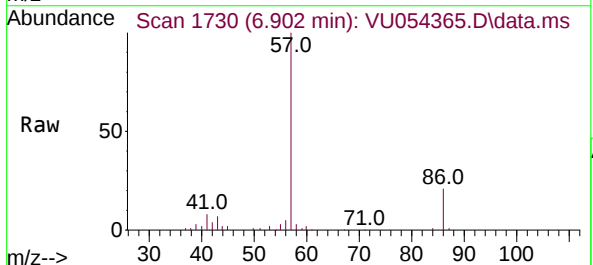
Tgt Ion: 41 Resp: 6280

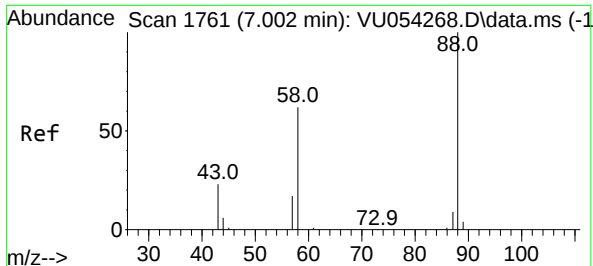
Ion Ratio Lower Upper

41 100

69 0.0 79.8 119.6#

39 49.2 47.9 71.9





#49

1,4-Dioxane

Concen: 0.450 ug/l

RT: 7.012 min Scan# 11

Delta R.T. 0.010 min

Lab File: VU054365.D

Acq: 01 Jun 2023 02:29

Instrument :

MSVOA_U

ClientSampleId :

TP-2

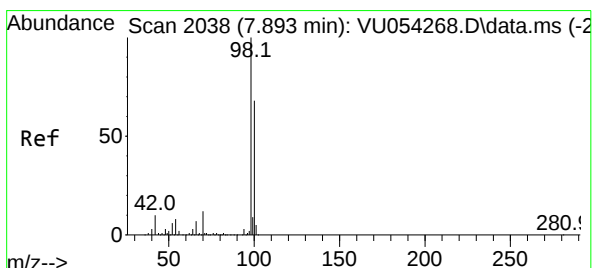
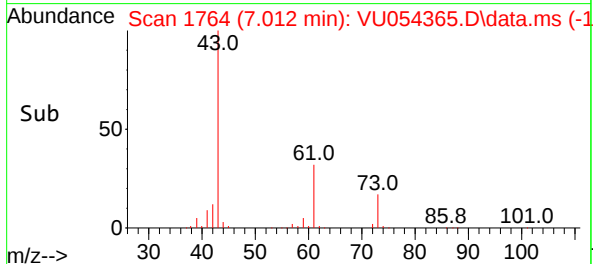
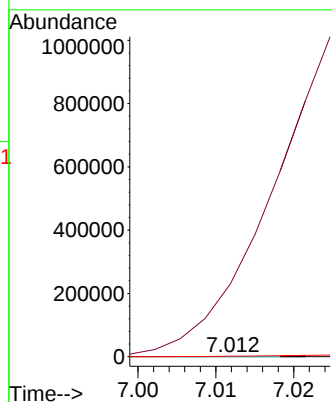
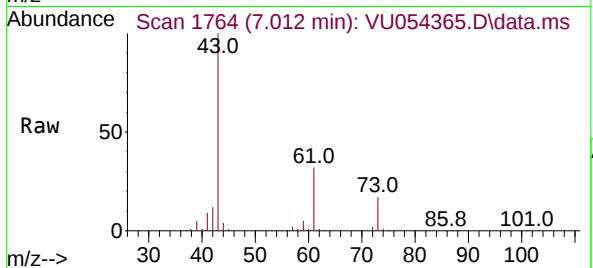
Tgt Ion: 88 Resp: 45

Ion Ratio Lower Upper

88 100

43 0.0 0.0 0.0

58 0.0 15.4 23.0#



#50

Toluene-d8

Concen: 50.377 ug/l

RT: 7.893 min Scan# 2038

Delta R.T. -0.000 min

Lab File: VU054365.D

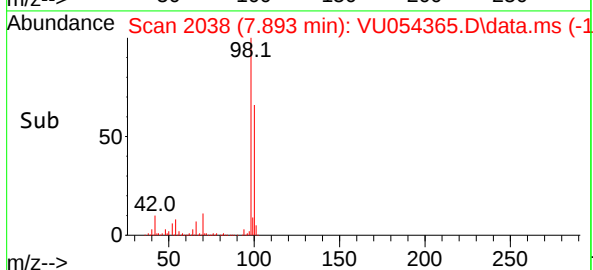
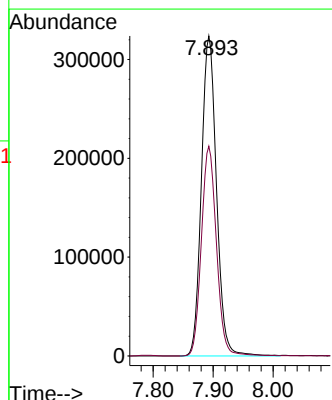
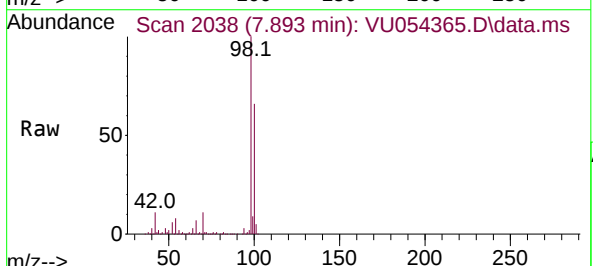
Acq: 01 Jun 2023 02:29

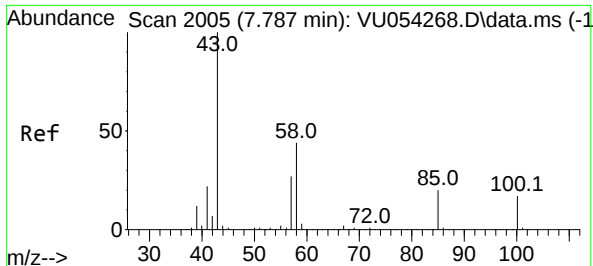
Tgt Ion: 98 Resp: 567377

Ion Ratio Lower Upper

98 100

100 65.6 51.7 77.5

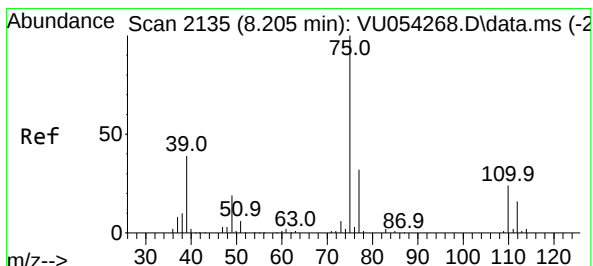
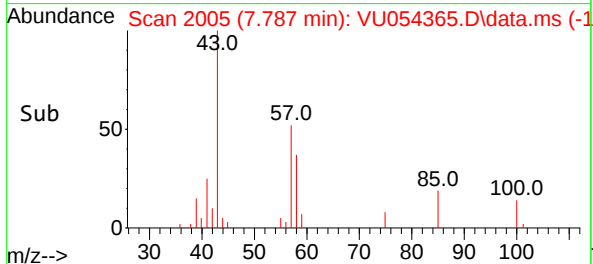
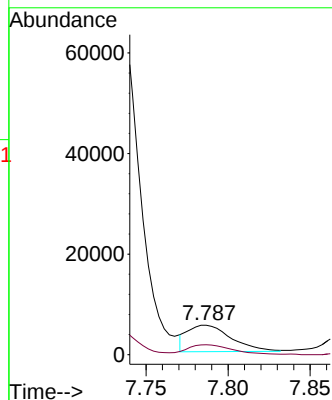
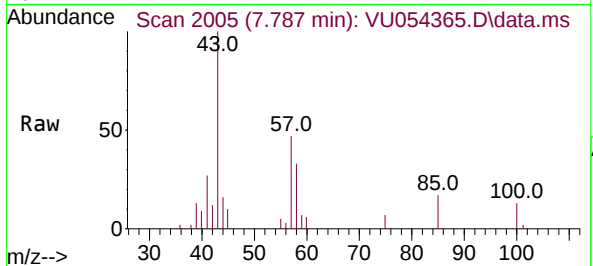




#51
4-Methyl-2-Pentanone
Concen: 1.877 ug/l
RT: 7.787 min Scan# 2005
Delta R.T. -0.000 min
Lab File: VU054365.D
Acq: 01 Jun 2023 02:29

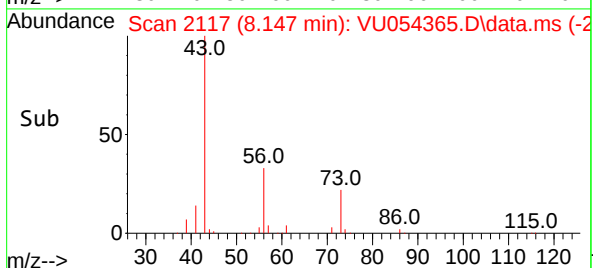
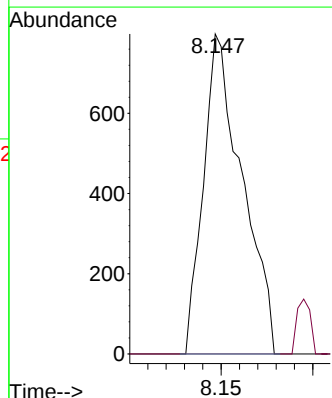
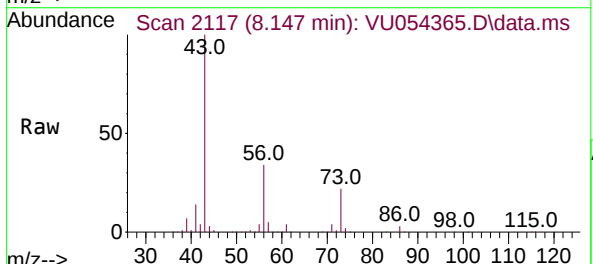
Instrument :
MSVOA_U
ClientSampleId :
TP-2

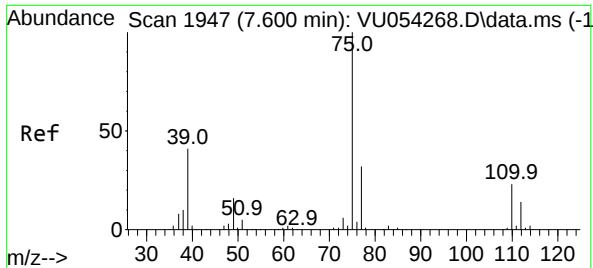
Tgt Ion: 43 Resp: 9793
Ion Ratio Lower Upper
43 100
58 39.7 34.7 52.1



#53
t-1,3-Dichloropropene
Concen: 0.214 ug/l
RT: 8.147 min Scan# 2117
Delta R.T. -0.058 min
Lab File: VU054365.D
Acq: 01 Jun 2023 02:29

Tgt Ion: 75 Resp: 1168
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.0#

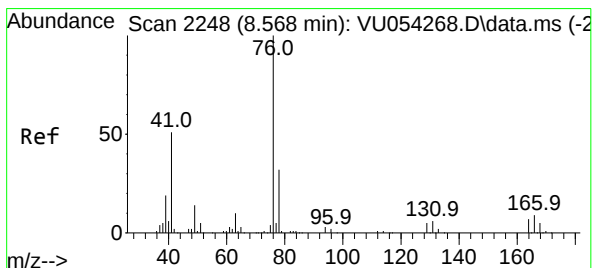
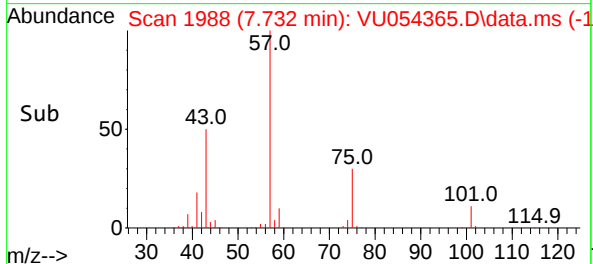
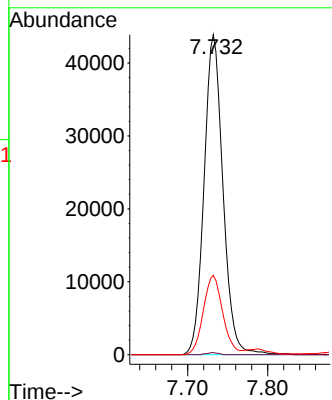
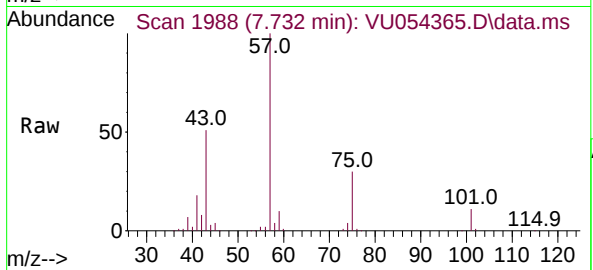




#54
 cis-1,3-Dichloropropene
 Concen: 12.703 ug/l
 RT: 7.732 min Scan# 1947
 Delta R.T. 0.132 min
 Lab File: VU054365.D
 Acq: 01 Jun 2023 02:29

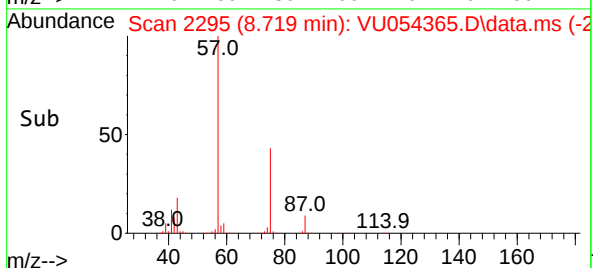
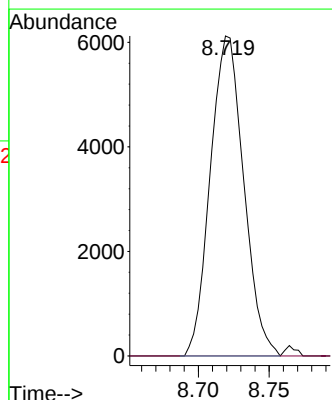
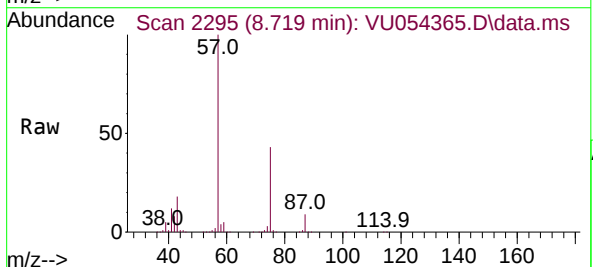
Instrument :
 MSVOA_U
 ClientSampleId :
 TP-2

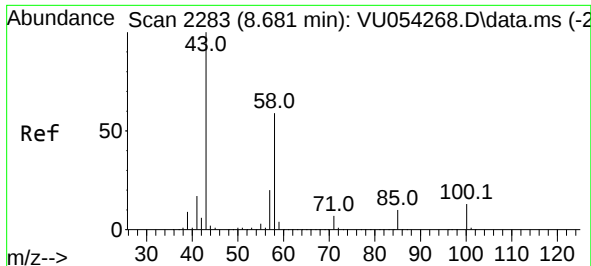
Tgt Ion: 75 Resp: 72252
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.7 38.5#
 39 24.8 33.0 49.6#



#57
 1,3-Dichloropropane
 Concen: 1.660 ug/l
 RT: 8.719 min Scan# 2295
 Delta R.T. 0.151 min
 Lab File: VU054365.D
 Acq: 01 Jun 2023 02:29

Tgt Ion: 76 Resp: 10021
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.1 39.1#





#59

2-Hexanone

Concen: 29.538 ug/l

RT: 8.722 min Scan# 21

Delta R.T. 0.041 min

Lab File: VU054365.D

Acq: 01 Jun 2023 02:29

Instrument :

MSVOA_U

ClientSampleId :

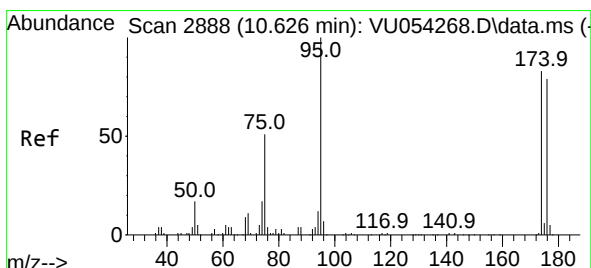
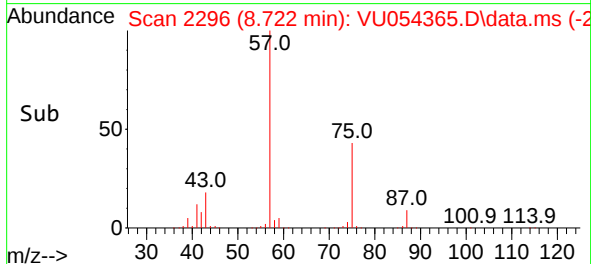
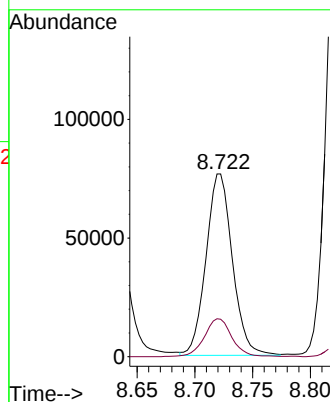
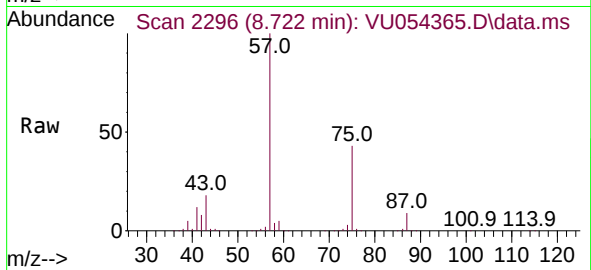
TP-2

Tgt Ion: 43 Resp: 121740

Ion Ratio Lower Upper

43 100

58 22.0 30.3 90.8#



#62

4-Bromofluorobenzene

Concen: 45.627 ug/l

RT: 10.626 min Scan# 2888

Delta R.T. -0.000 min

Lab File: VU054365.D

Acq: 01 Jun 2023 02:29

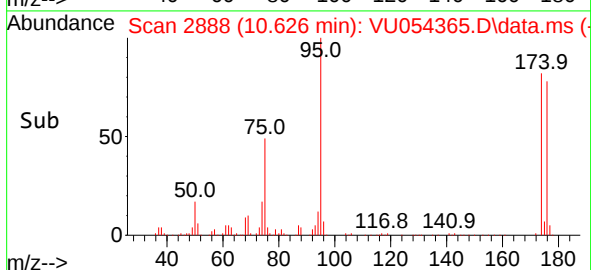
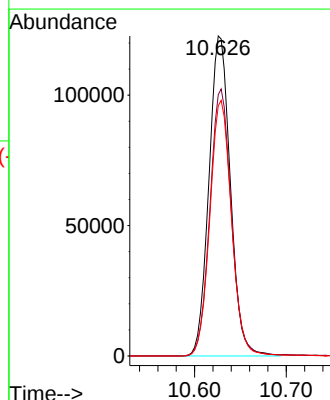
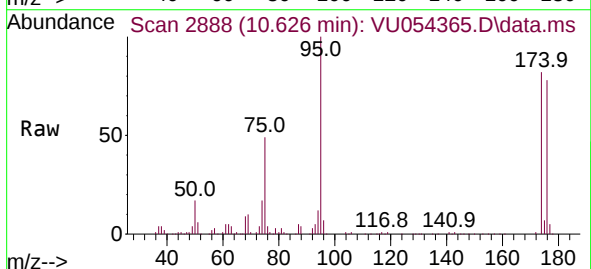
Tgt Ion: 95 Resp: 199256

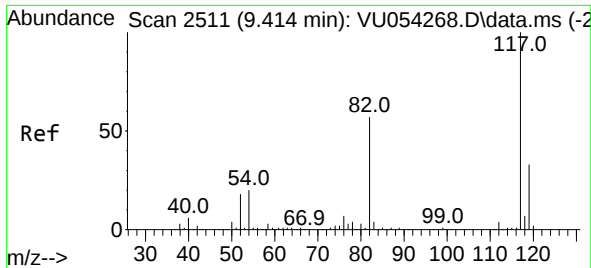
Ion Ratio Lower Upper

95 100

174 83.9 0.0 182.0

176 80.5 0.0 177.8

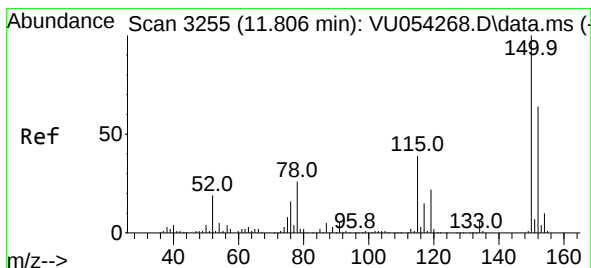
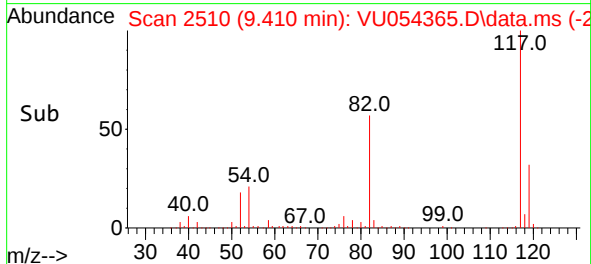
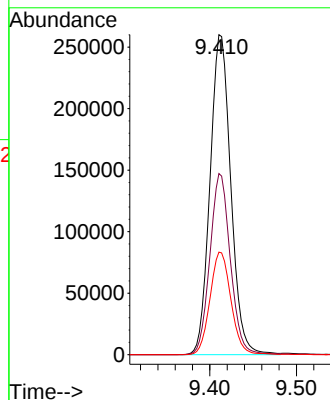
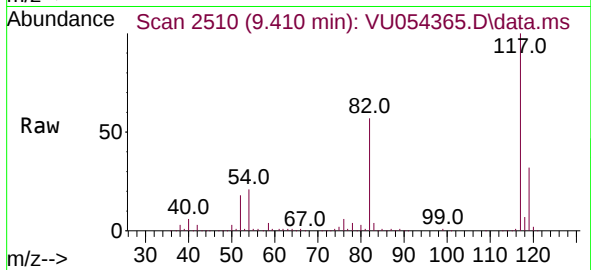




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.410 min Scan# 2511
Delta R.T. -0.004 min
Lab File: VU054365.D
Acq: 01 Jun 2023 02:29

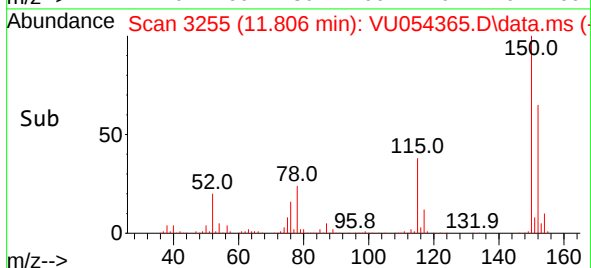
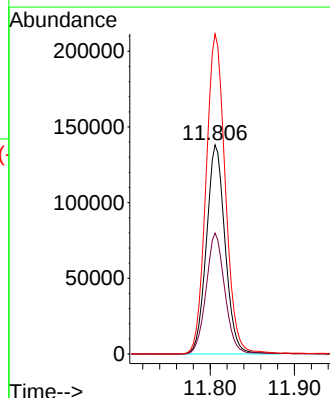
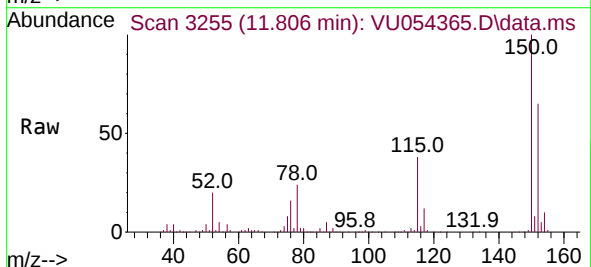
Instrument :
MSVOA_U
ClientSampleId :
TP-2

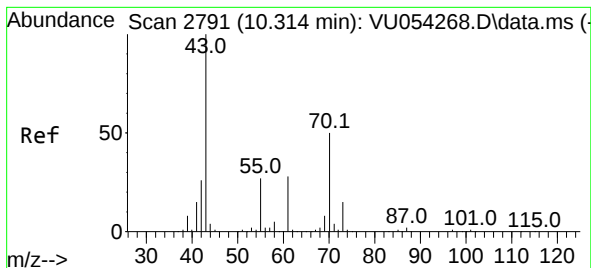
Tgt Ion:117 Resp: 433961
Ion Ratio Lower Upper
117 100
82 56.5 41.7 62.5
119 32.1 25.7 38.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.806 min Scan# 3255
Delta R.T. -0.000 min
Lab File: VU054365.D
Acq: 01 Jun 2023 02:29

Tgt Ion:152 Resp: 213237
Ion Ratio Lower Upper
152 100
115 58.2 37.0 110.9
150 157.9 0.0 342.2





#74

N-amy1 acetate

Concen: 7.186 ug/l

RT: 10.066 min Scan# 21

Delta R.T. -0.248 min

Lab File: VU054365.D

Acq: 01 Jun 2023 02:29

Instrument :

MSVOA_U

ClientSampleId :

TP-2

Tgt Ion: 43 Resp: 40294

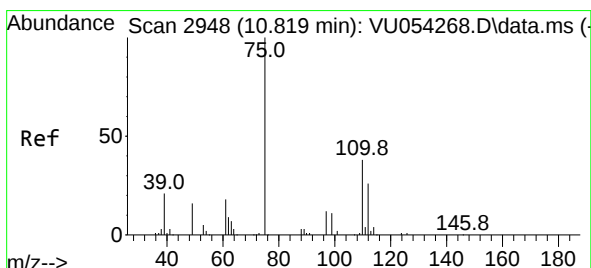
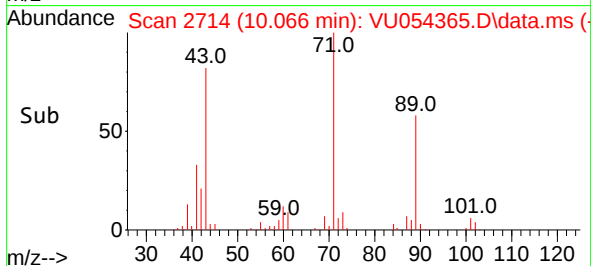
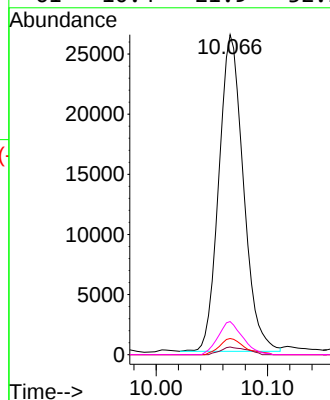
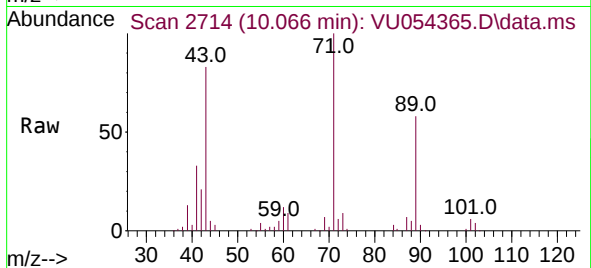
Ion Ratio Lower Upper

43 100

70 2.6 38.7 58.1#

55 5.2 21.8 32.8#

61 10.4 21.9 32.9#



#76

1,2,3-Trichloropropane

Concen: 15.817 ug/l

RT: 10.626 min Scan# 2888

Delta R.T. -0.193 min

Lab File: VU054365.D

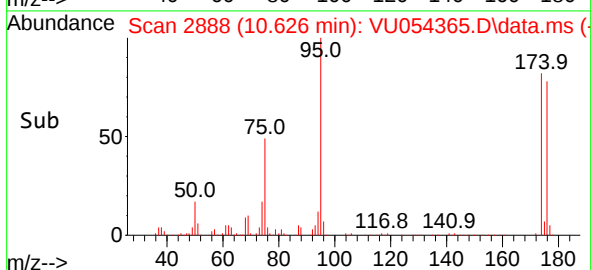
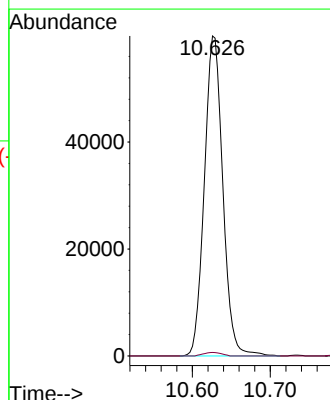
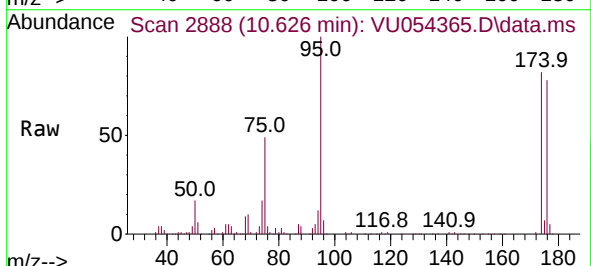
Acq: 01 Jun 2023 02:29

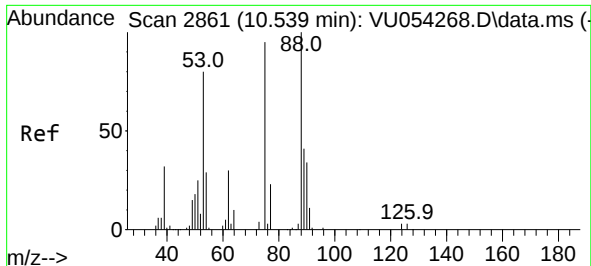
Tgt Ion: 75 Resp: 98437

Ion Ratio Lower Upper

75 100

77 1.1 15.8 47.3#

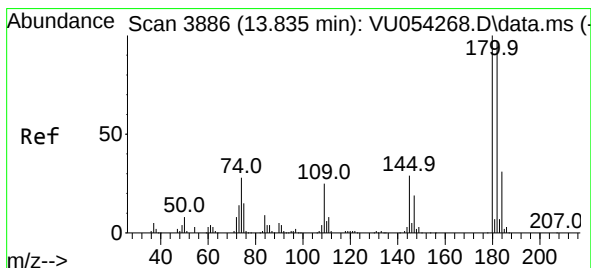
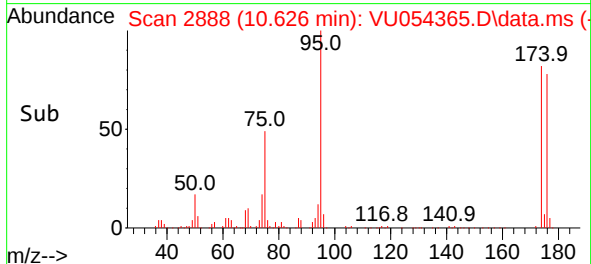
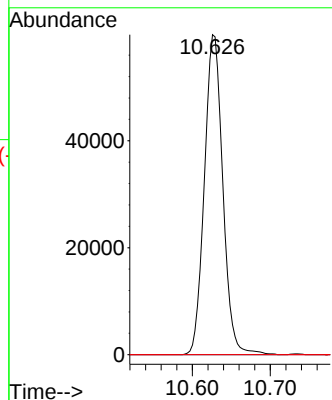
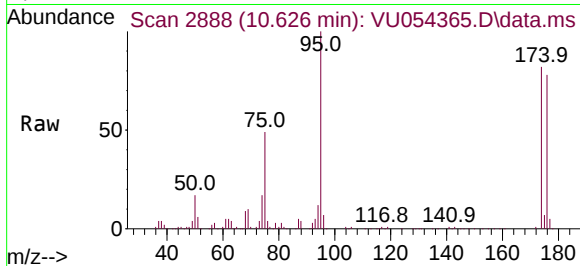




#81
trans-1,4-Dichloro-2-butene
Concen: 60.230 ug/l
RT: 10.626 min Scan# 21
Delta R.T. 0.087 min
Lab File: VU054365.D
Acq: 01 Jun 2023 02:29

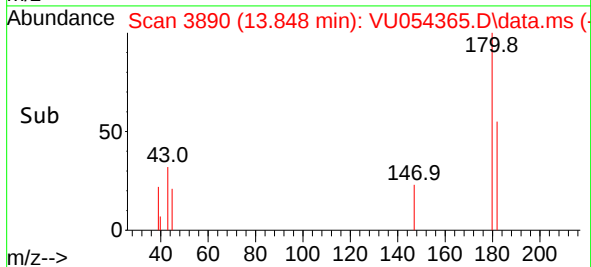
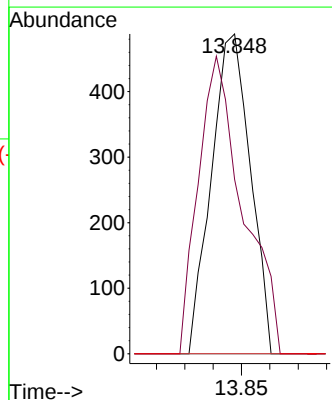
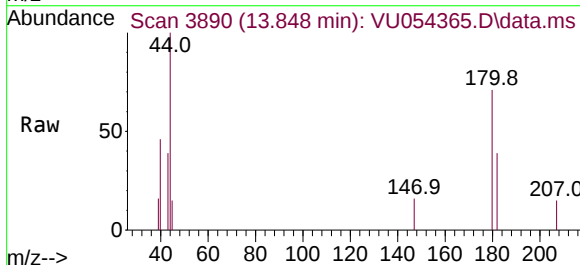
Instrument :
MSVOA_U
ClientSampleId :
TP-2

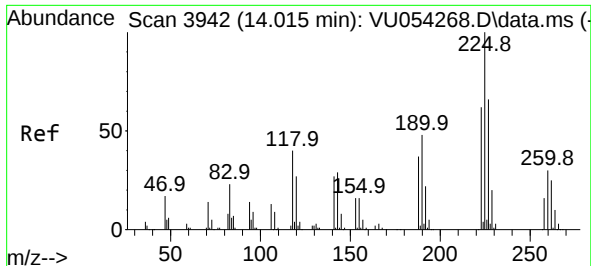
Tgt Ion: 75 Resp: 98437
Ion Ratio Lower Upper
75 100
53 0.0 69.2 103.8#
89 0.0 37.0 55.6#



#93
1,2,4-Trichlorobenzene
Concen: 1.735 ug/l
RT: 13.848 min Scan# 3890
Delta R.T. 0.013 min
Lab File: VU054365.D
Acq: 01 Jun 2023 02:29

Tgt Ion:180 Resp: 466
Ion Ratio Lower Upper
180 100
182 106.4 47.9 143.6
145 0.0 14.0 41.9#

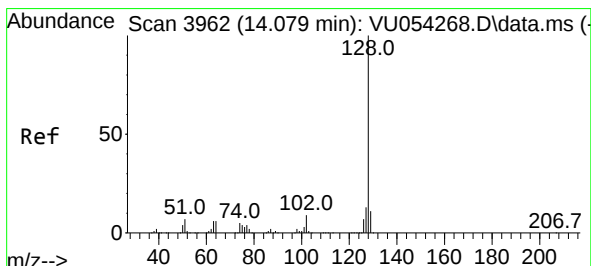
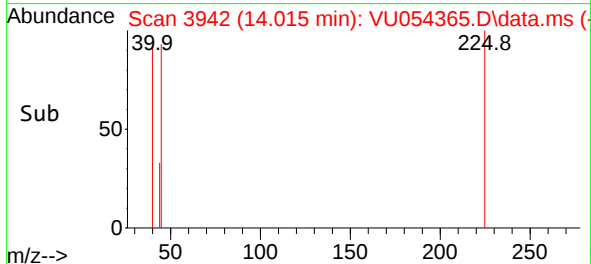
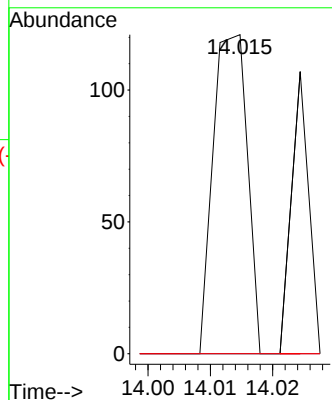
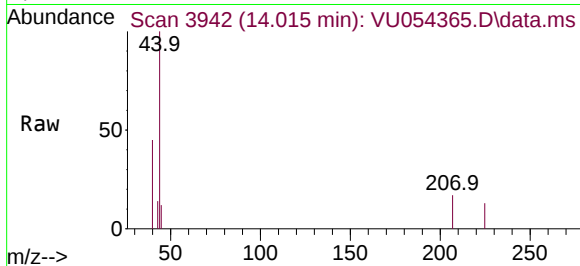




#94
Hexachlorobutadiene
Concen: 0.840 ug/l
RT: 14.015 min Scan# 3942
Delta R.T. -0.000 min
Lab File: VU054365.D
Acq: 01 Jun 2023 02:29

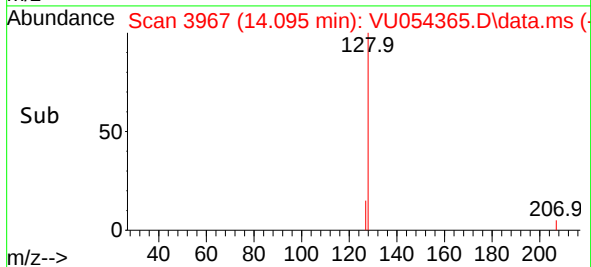
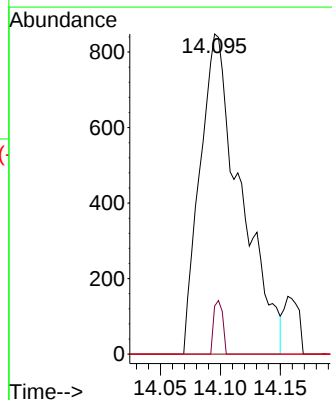
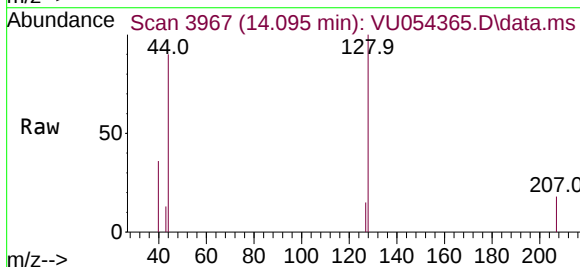
Instrument :
MSVOA_U
ClientSampleId :
TP-2

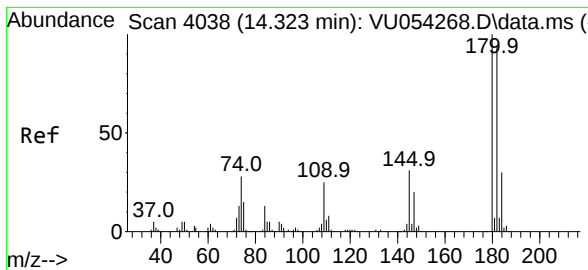
Tgt Ion:	225	Resp:	46
Ion	Ratio	Lower	Upper
225	100		
223	0.0	31.3	93.9#
227	0.0	32.0	96.2#



#95
Naphthalene
Concen: 2.113 ug/l
RT: 14.095 min Scan# 3967
Delta R.T. 0.016 min
Lab File: VU054365.D
Acq: 01 Jun 2023 02:29

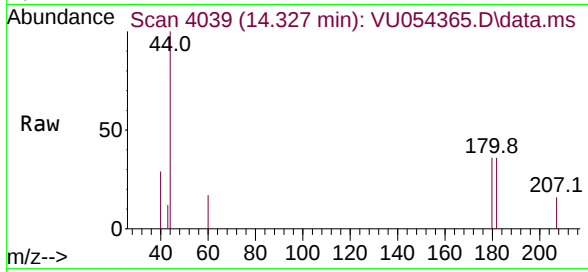
Tgt Ion:	128	Resp:	2004
Ion	Ratio	Lower	Upper
128	100		
127	3.7	10.3	15.5#
129	0.0	8.6	13.0#





#96
 1,2,3-Trichlorobenzene
 Concen: 1.351 ug/l
 RT: 14.327 min Scan# 4039
 Delta R.T. 0.004 min
 Lab File: VU054365.D
 Acq: 01 Jun 2023 02:29

Instrument :
 MSVOA_U
 ClientSampleId :
 TP-2



Tgt Ion:	180	Resp:	479
Ion	Ratio	Lower	Upper
180	100		
182	122.8	48.4	145.0
145	10.6	14.8	44.4#

