

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU053123\
 Data File : VU054370.D
 Acq On : 01 Jun 2023 04:27
 Operator : JC/MD
 Sample : 02981-08
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 TP-5

Quant Time: Jun 01 06:44:01 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)

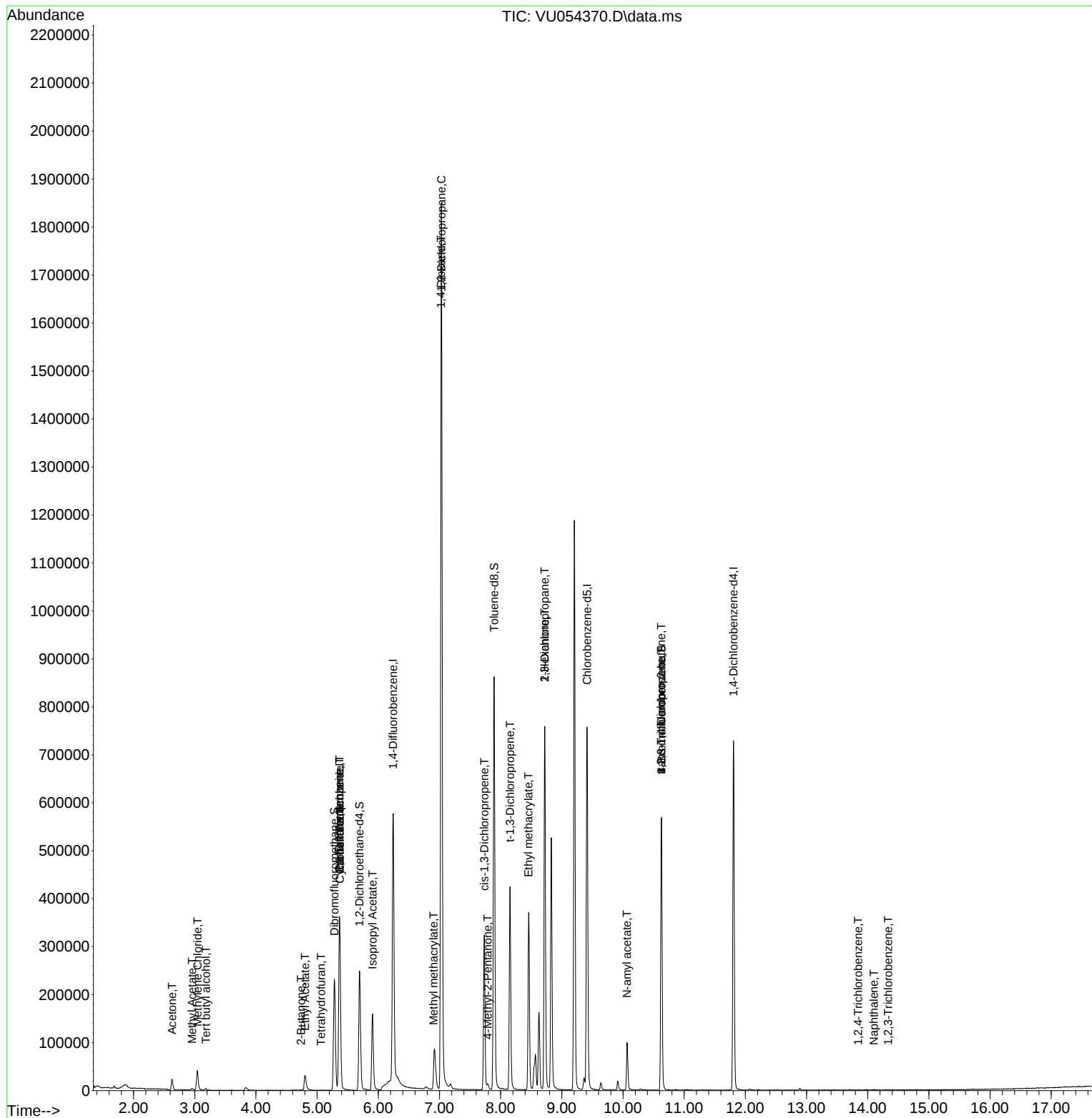
Internal Standards						
1) Pentafluorobenzene	5.366	168	264857	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.243	114	457369	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.414	117	437089	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.806	152	197445	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.694	65	183213	52.769	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 105.540%			
35) Dibromofluoromethane	5.282	113	153054	51.965	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.920%			
50) Toluene-d8	7.893	98	571837	51.042	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 102.080%			
62) 4-Bromofluorobenzene	10.629	95	191745	44.141	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 88.280%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	3.182	59	2902	3.094	ug/l #	37
16) Acetone	2.629	43	28372	14.256	ug/l	100
18) Methyl Acetate	2.957	43	6158	0.847	ug/l #	77
20) Methylene Chloride	3.044	84	20989	5.846	ug/l	94
25) 2-Butanone	4.739	43	2086	0.792	ug/l #	75
29) Tetrahydrofuran	5.067	42	456	0.275	ug/l #	32
31) Cyclohexane	5.372	56	5248	1.070	ug/l #	4
36) 1,1-Dichloropropene	5.366	75	20114	4.348	ug/l #	49
37) Ethyl Acetate	4.803	43	43083	7.642	ug/l #	91
38) Carbon Tetrachloride	5.369	117	25956	5.482	ug/l #	16
43) Isopropyl Acetate	5.906	43	166141	21.364	ug/l	98
45) 1,2-Dichloropropane	7.031	63	2190	0.636	ug/l #	43
48) Methyl methacrylate	6.903	41	4986	1.446	ug/l #	37
49) 1,4-Dioxane	7.025	88	20	0.201	ug/l #	1
51) 4-Methyl-2-Pentanone	7.787	43	6873	1.324	ug/l	93
53) t-1,3-Dichloropropene	8.153	75	1158	0.214	ug/l #	43
54) cis-1,3-Dichloropropene	7.732	75	59170	10.458	ug/l #	60
56) Ethyl methacrylate	8.456	69	2068	0.398	ug/l #	1
57) 1,3-Dichloropropane	8.719	76	7644	1.273	ug/l #	42
59) 2-Hexanone	8.719	43	101276	24.704	ug/l #	48
74) N-amyl acetate	10.066	43	30174	5.811	ug/l #	49
76) 1,2,3-Trichloropropane	10.626	75	96263	16.705	ug/l #	46
81) trans-1,4-Dichloro-2-b...	10.626	75	96263	63.611	ug/l #	15
93) 1,2,4-Trichlorobenzene	13.841	180	188	1.683	ug/l #	63
95) Naphthalene	14.102	128	876	2.049	ug/l #	69
96) 1,2,3-Trichlorobenzene	14.336	180	195	1.297	ug/l #	86

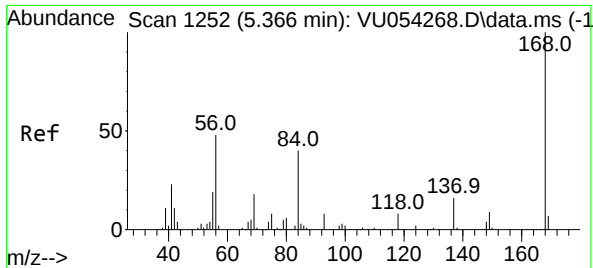
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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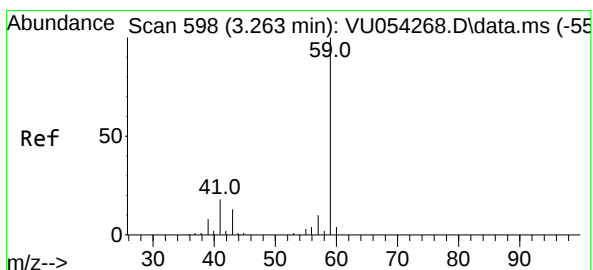
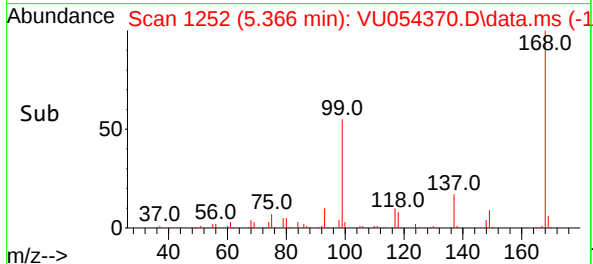
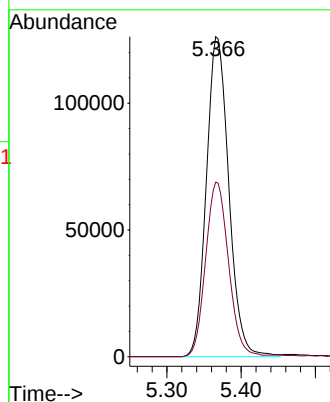
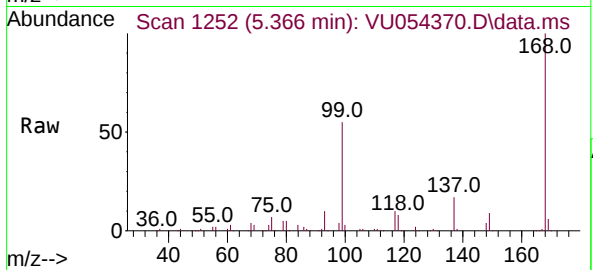




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.366 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU054370.D
Acq: 01 Jun 2023 04:27

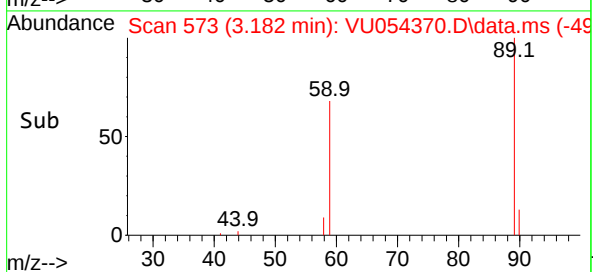
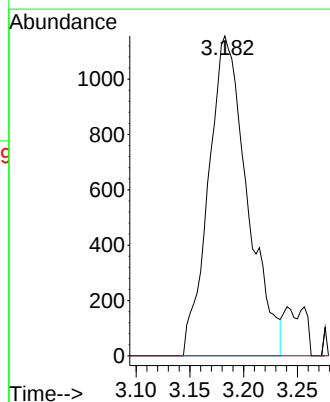
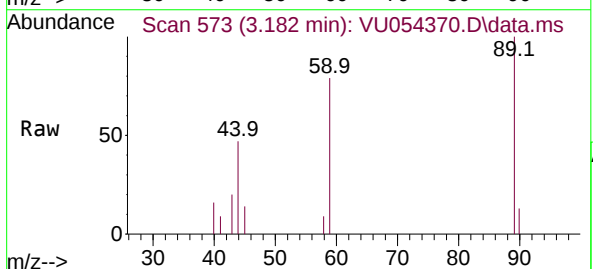
Instrument :
MSVOA_U
ClientSampleId :
TP-5

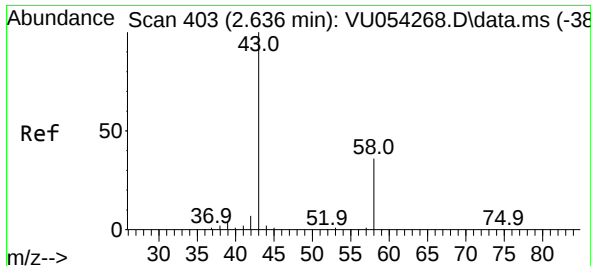
Tgt Ion:168 Resp: 264857
Ion Ratio Lower Upper
168 100
99 54.5 39.3 58.9



#11
Tert butyl alcohol
Concen: 3.094 ug/l
RT: 3.182 min Scan# 573
Delta R.T. -0.061 min
Lab File: VU054370.D
Acq: 01 Jun 2023 04:27

Tgt Ion: 59 Resp: 2902
Ion Ratio Lower Upper
59 100
57 0.0 30.6 45.8#

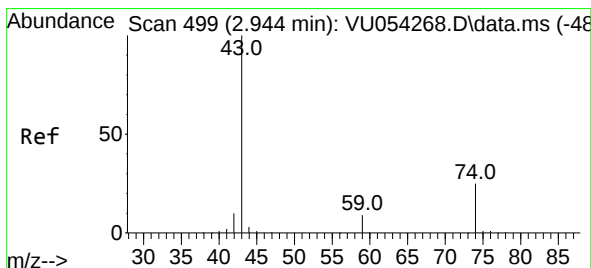
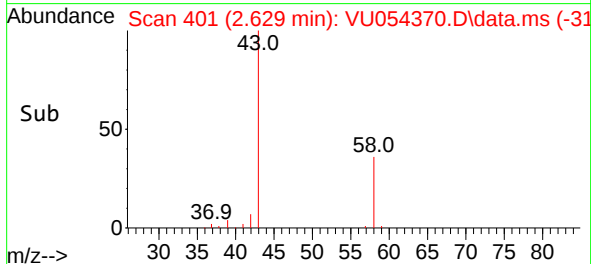
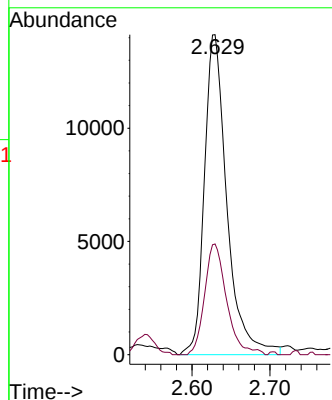
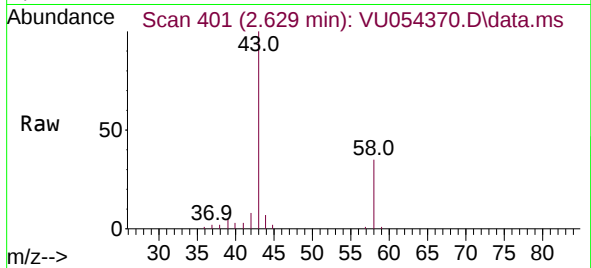




#16
Acetone
Concen: 14.256 ug/l
RT: 2.629 min Scan# 401
Delta R.T. -0.007 min
Lab File: VU054370.D
Acq: 01 Jun 2023 04:27

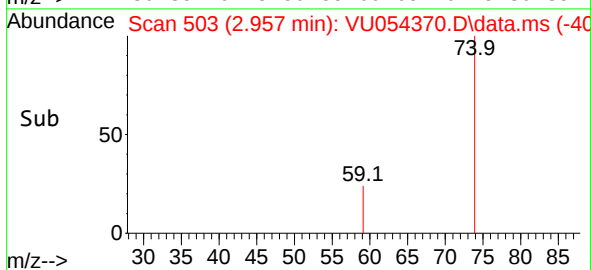
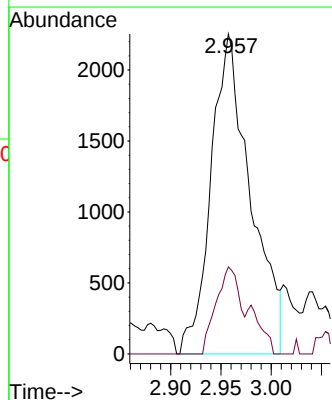
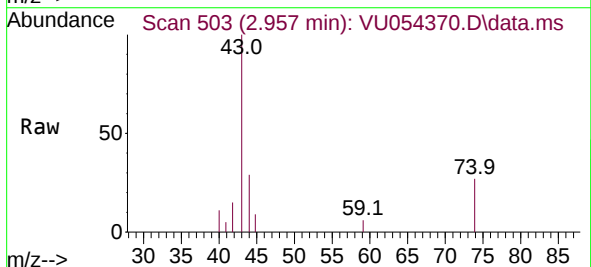
Instrument :
MSVOA_U
ClientSampleId :
TP-5

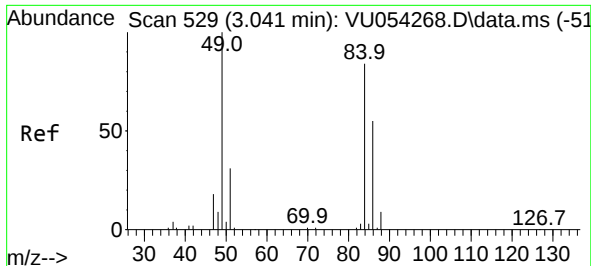
Tgt Ion: 43 Resp: 28372
Ion Ratio Lower Upper
43 100
58 34.6 27.5 41.3



#18
Methyl Acetate
Concen: 0.847 ug/l
RT: 2.957 min Scan# 503
Delta R.T. 0.013 min
Lab File: VU054370.D
Acq: 01 Jun 2023 04:27

Tgt Ion: 43 Resp: 6158
Ion Ratio Lower Upper
43 100
74 16.2 22.5 33.7#

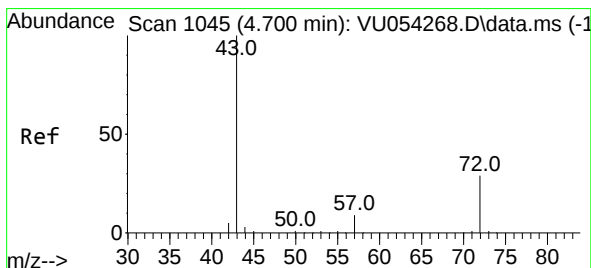
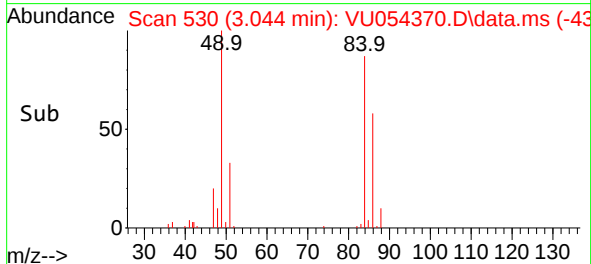
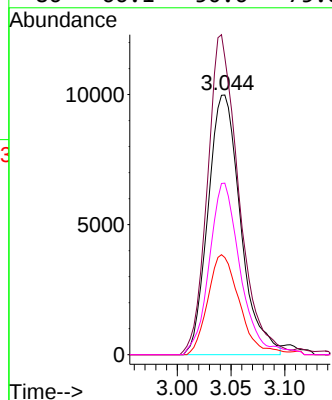
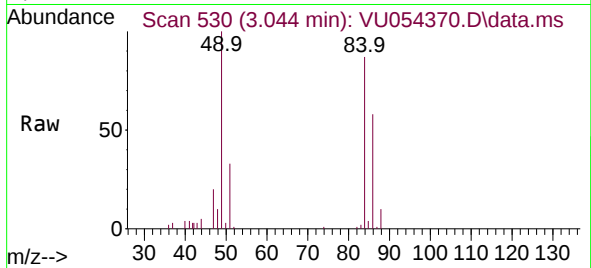




#20
Methylene Chloride
Concen: 5.846 ug/l
RT: 3.044 min Scan# 51
Delta R.T. 0.003 min
Lab File: VU054370.D
Acq: 01 Jun 2023 04:27

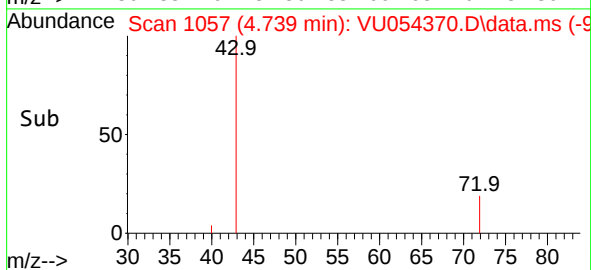
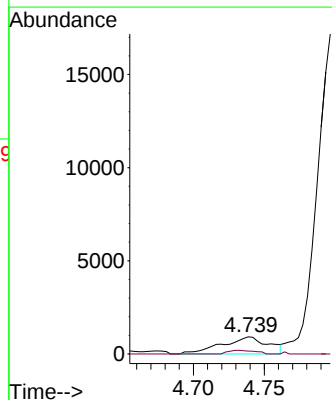
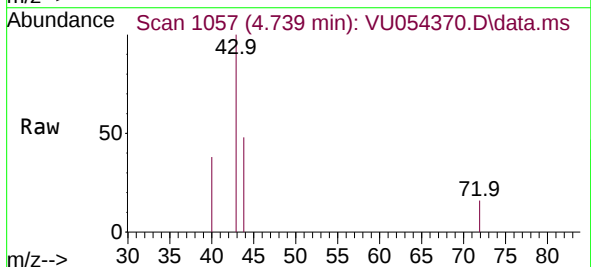
Instrument :
MSVOA_U
ClientSampleId :
TP-5

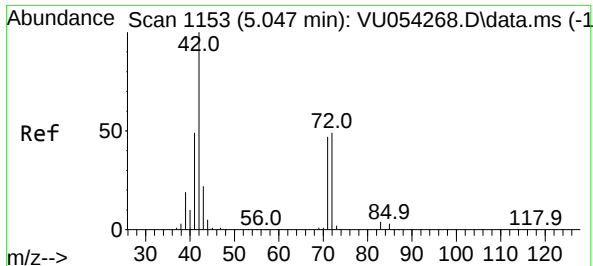
Tgt Ion:	84	Resp:	20989
Ion	Ratio	Lower	Upper
84	100		
49	114.5	86.6	129.8
51	37.4	26.6	40.0
86	66.1	50.6	75.8



#25
2-Butanone
Concen: 0.792 ug/l
RT: 4.739 min Scan# 1057
Delta R.T. 0.039 min
Lab File: VU054370.D
Acq: 01 Jun 2023 04:27

Tgt Ion:	43	Resp:	2086
Ion	Ratio	Lower	Upper
43	100		
72	16.5	23.8	35.6#





#29

Tetrahydrofuran

Concen: 0.275 ug/l

RT: 5.067 min Scan# 1159

Delta R.T. 0.020 min

Lab File: VU054370.D

Acq: 01 Jun 2023 04:27

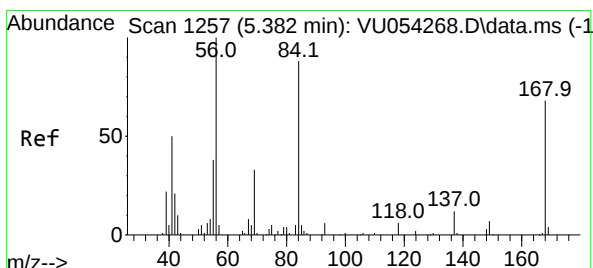
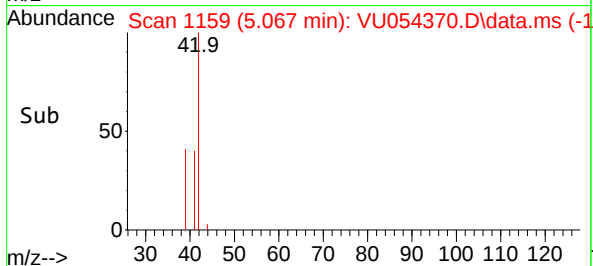
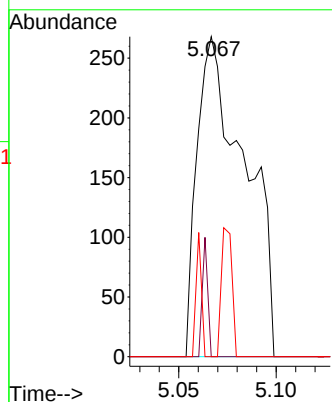
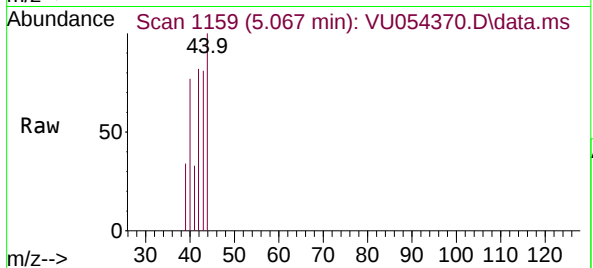
Instrument :

MSVOA_U

ClientSampleId :

TP-5

Tgt Ion:	42	Resp:	456
Ion	Ratio	Lower	Upper
42	100		
72	4.2	42.6	63.8#
71	4.4	40.3	60.5#



#31

Cyclohexane

Concen: 1.070 ug/l

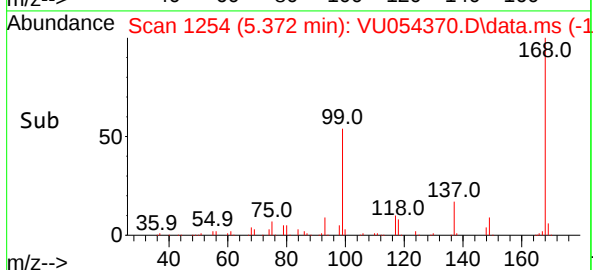
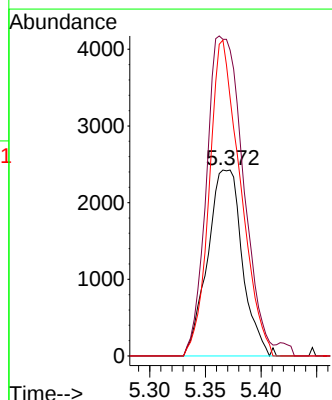
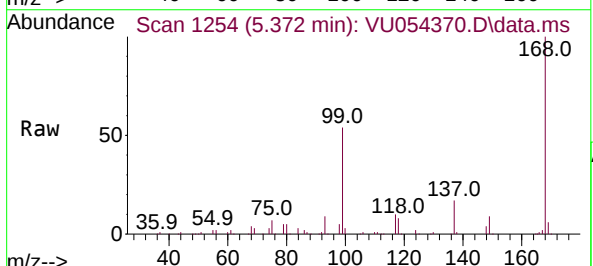
RT: 5.372 min Scan# 1254

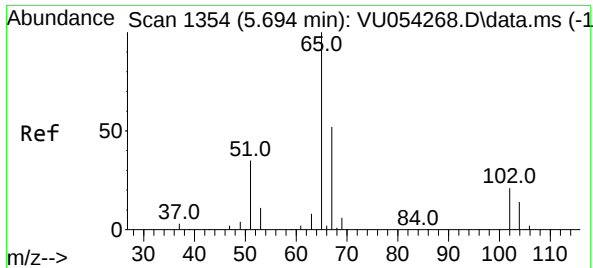
Delta R.T. -0.010 min

Lab File: VU054370.D

Acq: 01 Jun 2023 04:27

Tgt Ion:	56	Resp:	5248
Ion	Ratio	Lower	Upper
56	100		
69	164.4	27.8	41.8#
84	138.8	74.2	111.4#





#33

1,2-Dichloroethane-d4

Concen: 52.769 ug/l

RT: 5.694 min Scan# 11

Delta R.T. -0.000 min

Lab File: VU054370.D

Acq: 01 Jun 2023 04:27

Instrument :

MSVOA_U

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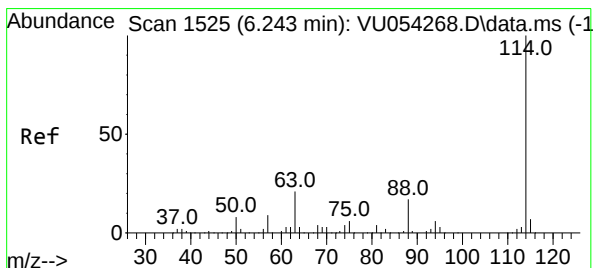
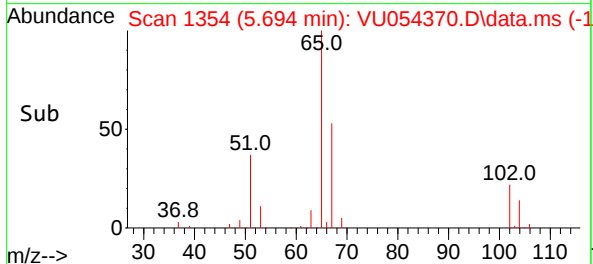
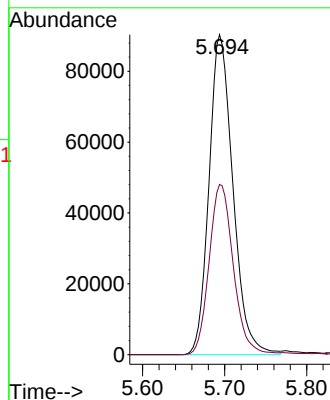
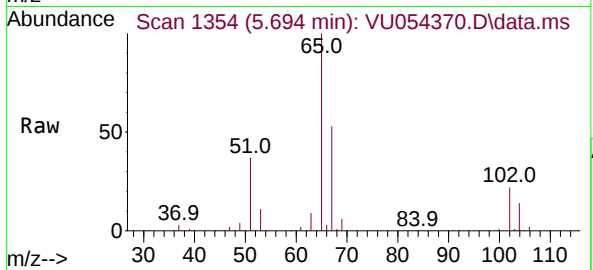
TP-5

Tgt Ion: 65 Resp: 183213

Ion Ratio Lower Upper

65 100

67 53.8 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: VU054370.D

Acq: 01 Jun 2023 04:27

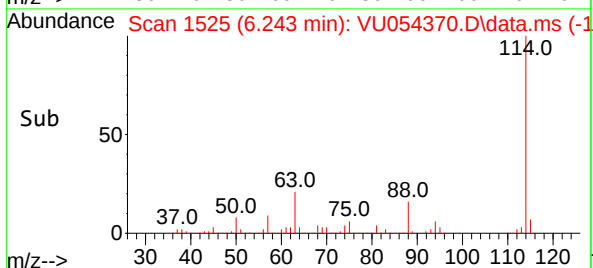
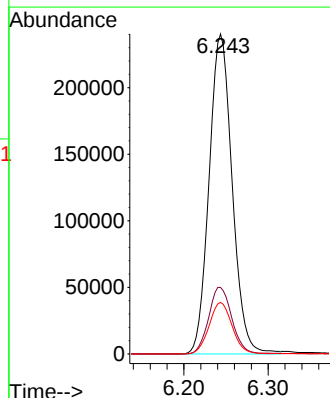
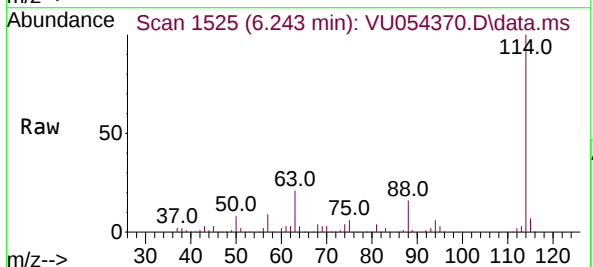
Tgt Ion:114 Resp: 457369

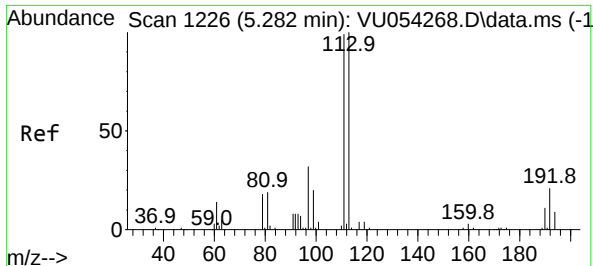
Ion Ratio Lower Upper

114 100

63 20.8 0.0 37.8

88 16.1 0.0 29.2

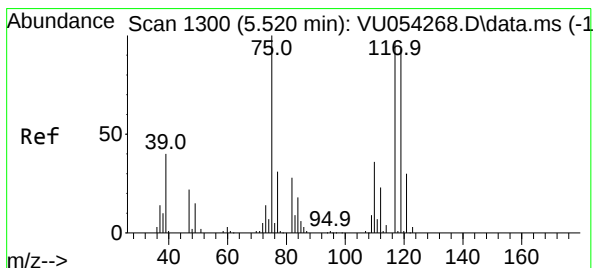
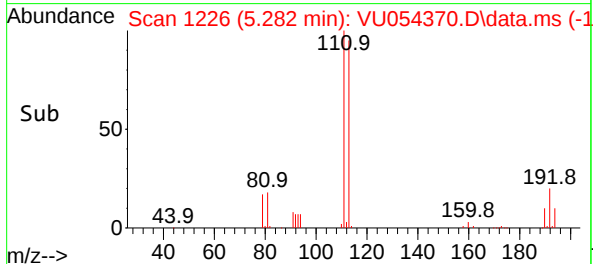
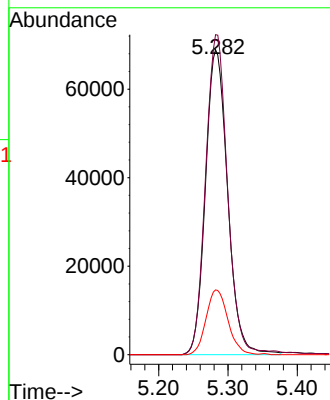
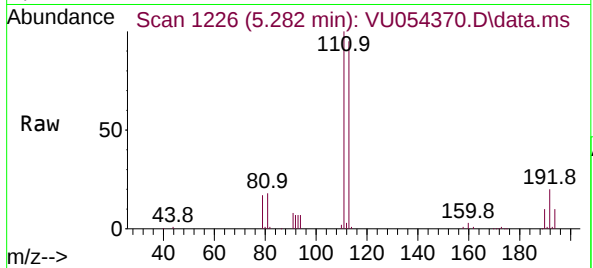




#35
Dibromofluoromethane
Concen: 51.965 ug/l
RT: 5.282 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU054370.D
Acq: 01 Jun 2023 04:27

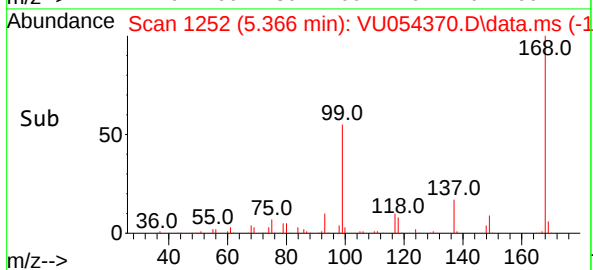
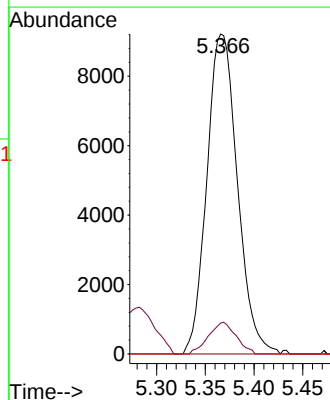
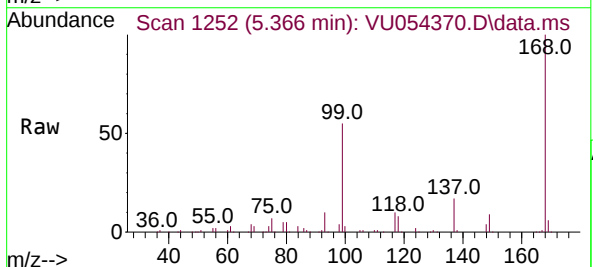
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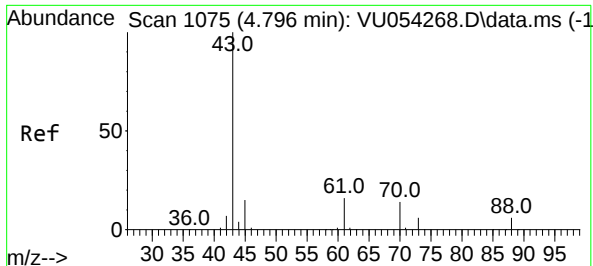
Tgt Ion:113 Resp: 153054
Ion Ratio Lower Upper
113 100
111 103.4 82.1 123.1
192 21.0 18.0 27.0



#36
1,1-Dichloropropene
Concen: 4.348 ug/l
RT: 5.366 min Scan# 1252
Delta R.T. -0.154 min
Lab File: VU054370.D
Acq: 01 Jun 2023 04:27

Tgt Ion: 75 Resp: 20114
Ion Ratio Lower Upper
75 100
110 8.9 18.4 55.2#
77 0.0 25.1 37.7#

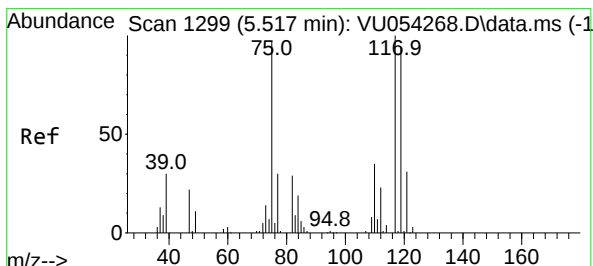
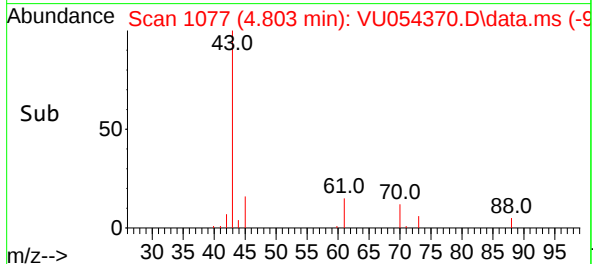
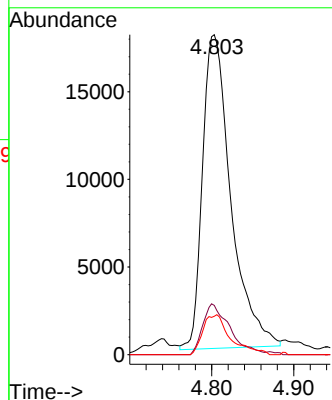
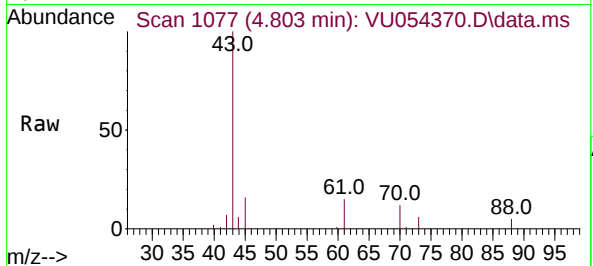




#37
Ethyl Acetate
Concen: 7.642 ug/l
RT: 4.803 min Scan# 1075
Delta R.T. 0.007 min
Lab File: VU054370.D
Acq: 01 Jun 2023 04:27

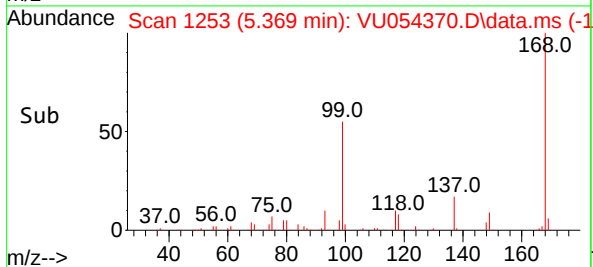
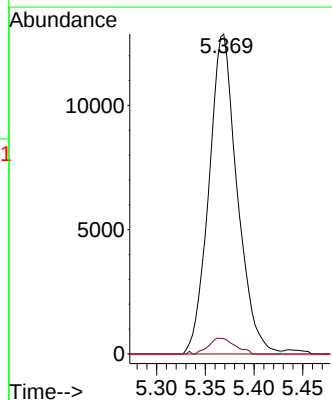
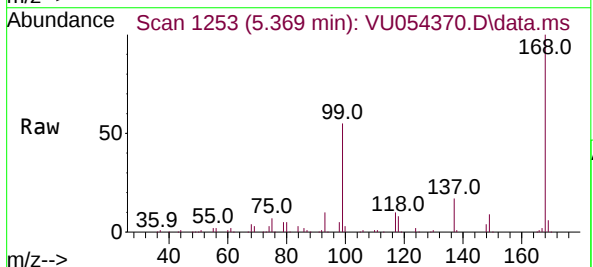
Instrument :
MSVOA_U
ClientSampleId :
TP-5

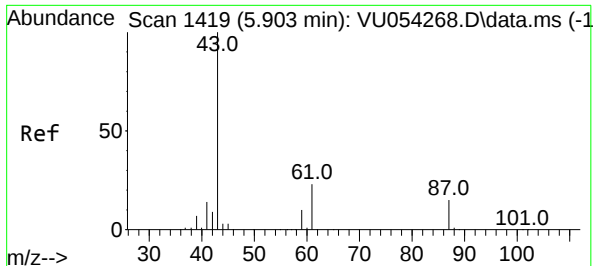
Tgt Ion: 43 Resp: 43083
Ion Ratio Lower Upper
43 100
61 15.4 9.5 14.3#
70 12.4 7.5 11.3#



#38
Carbon Tetrachloride
Concen: 5.482 ug/l
RT: 5.369 min Scan# 1253
Delta R.T. -0.148 min
Lab File: VU054370.D
Acq: 01 Jun 2023 04:27

Tgt Ion: 117 Resp: 25956
Ion Ratio Lower Upper
117 100
119 4.8 76.8 115.2#
121 0.0 24.7 37.1#

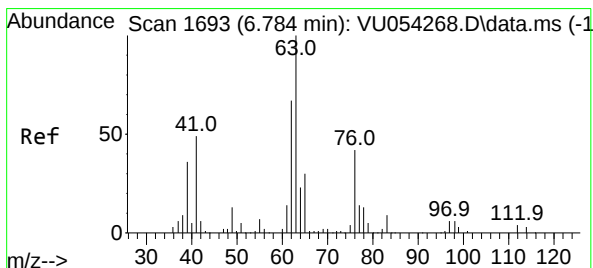
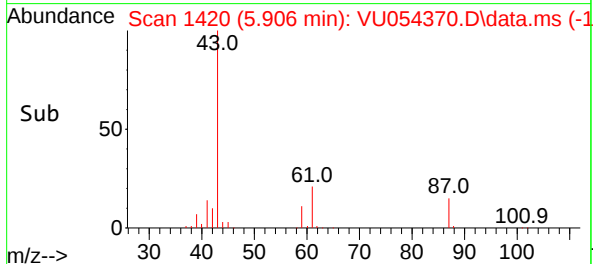
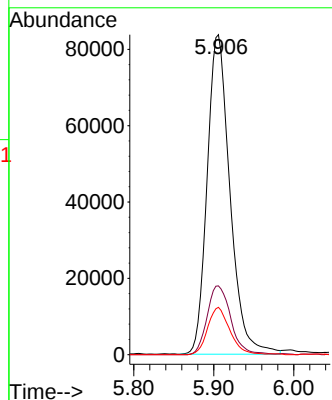
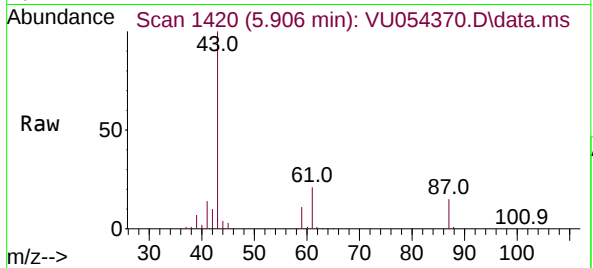




#43
Isopropyl Acetate
Concen: 21.364 ug/l
RT: 5.906 min Scan# 1419
Delta R.T. 0.003 min
Lab File: VU054370.D
Acq: 01 Jun 2023 04:27

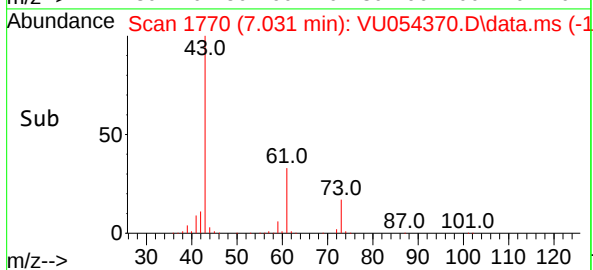
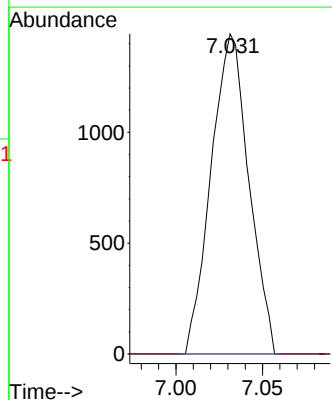
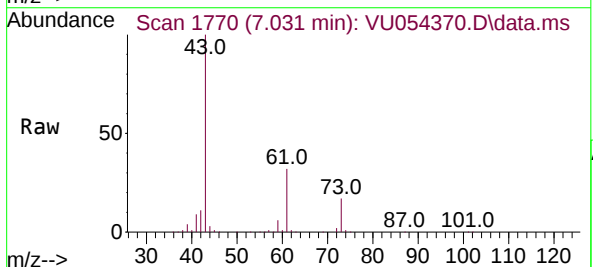
Instrument :
MSVOA_U
ClientSampleId :
TP-5

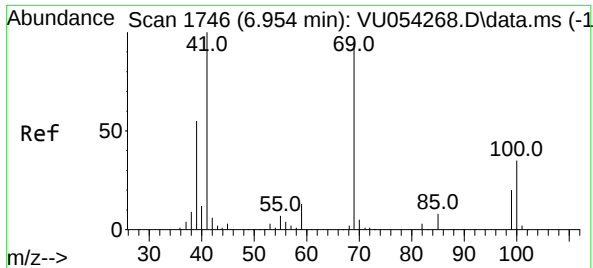
Tgt Ion: 43 Resp: 166141
Ion Ratio Lower Upper
43 100
61 22.3 17.4 26.0
87 14.4 12.6 18.8



#45
1,2-Dichloropropane
Concen: 0.636 ug/l
RT: 7.031 min Scan# 1770
Delta R.T. 0.247 min
Lab File: VU054370.D
Acq: 01 Jun 2023 04:27

Tgt Ion: 63 Resp: 2190
Ion Ratio Lower Upper
63 100
65 0.0 25.0 37.4#

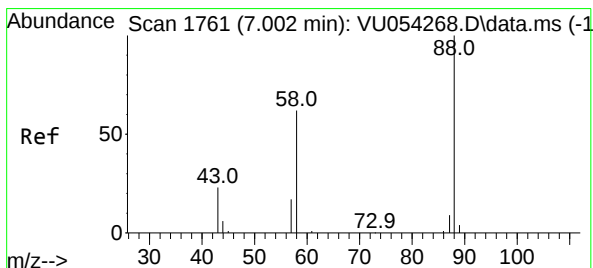
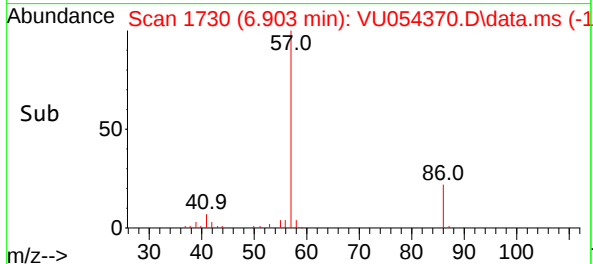
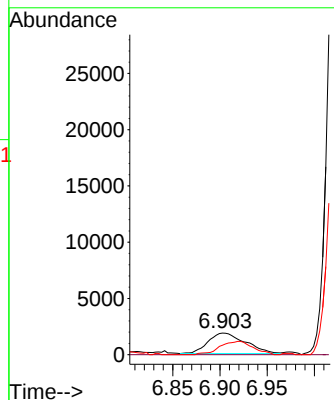
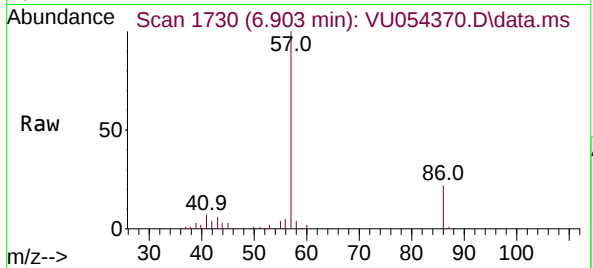




#48
Methyl methacrylate
Concen: 1.446 ug/l
RT: 6.903 min Scan# 1746
Delta R.T. -0.051 min
Lab File: VU054370.D
Acq: 01 Jun 2023 04:27

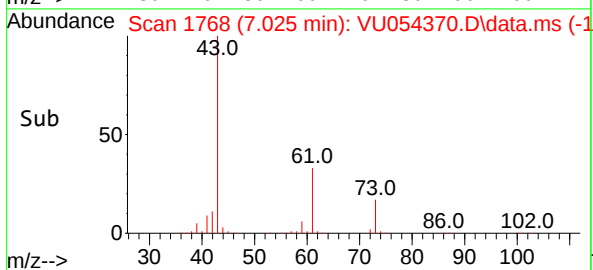
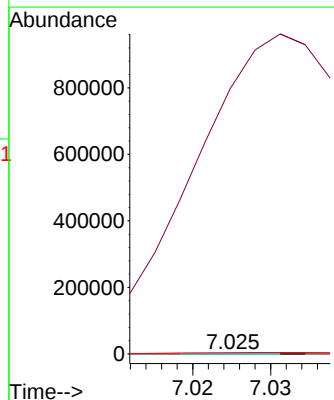
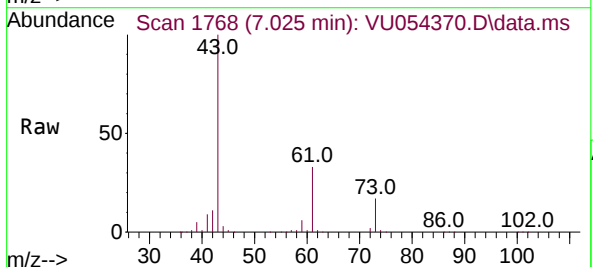
Instrument :
MSVOA_U
ClientSampleId :
TP-5

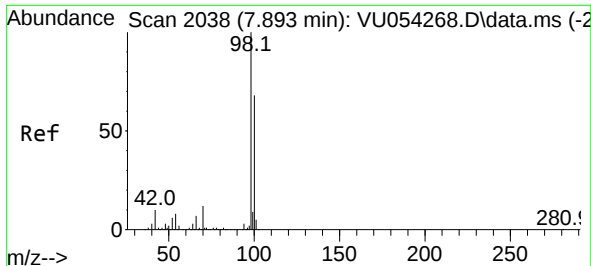
Tgt Ion: 41 Resp: 4986
Ion Ratio Lower Upper
41 100
69 0.0 79.8 119.6#
39 57.8 47.9 71.9



#49
1,4-Dioxane
Concen: 0.201 ug/l
RT: 7.025 min Scan# 1768
Delta R.T. 0.023 min
Lab File: VU054370.D
Acq: 01 Jun 2023 04:27

Tgt Ion: 88 Resp: 20
Ion Ratio Lower Upper
88 100
43 8437685.0 0.0 0.0#
58 42565.0 15.4 23.0#

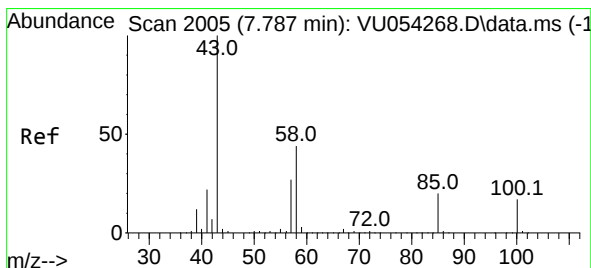
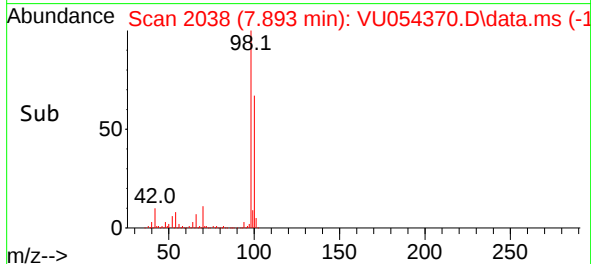
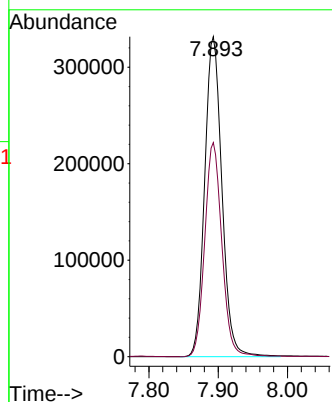
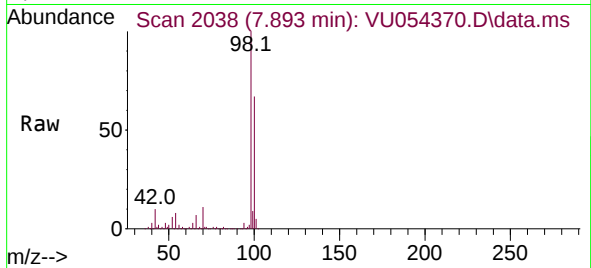




#50
Toluene-d8
Concen: 51.042 ug/l
RT: 7.893 min Scan# 2038
Delta R.T. -0.000 min
Lab File: VU054370.D
Acq: 01 Jun 2023 04:27

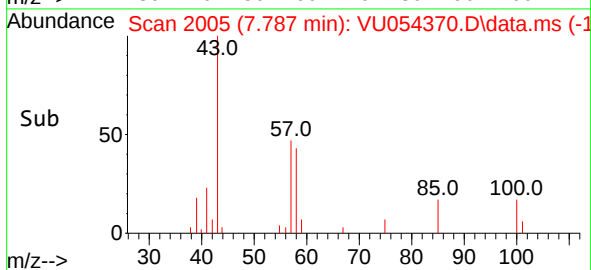
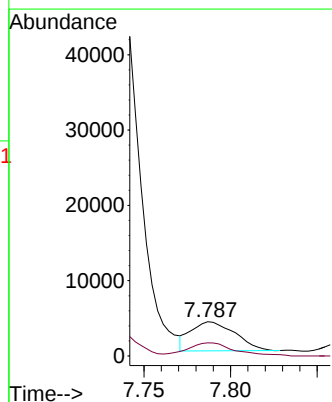
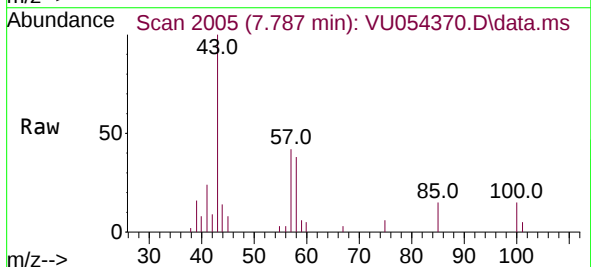
Instrument :
MSVOA_U
ClientSampleId :
TP-5

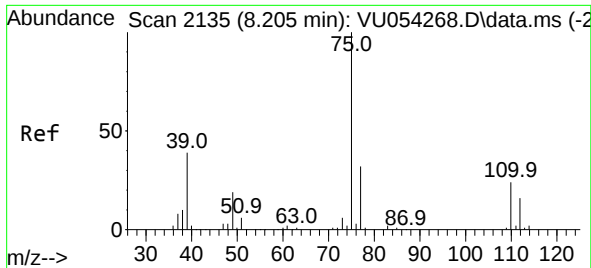
Tgt Ion: 98 Resp: 571837
Ion Ratio Lower Upper
98 100
100 66.5 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 1.324 ug/l
RT: 7.787 min Scan# 2005
Delta R.T. -0.000 min
Lab File: VU054370.D
Acq: 01 Jun 2023 04:27

Tgt Ion: 43 Resp: 6873
Ion Ratio Lower Upper
43 100
58 47.8 34.7 52.1

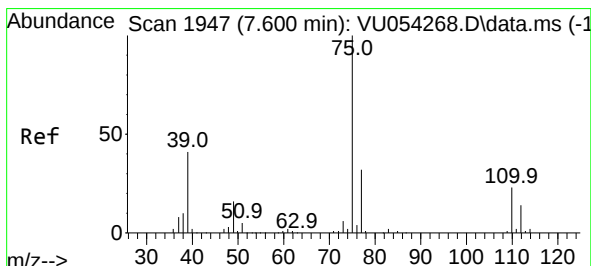
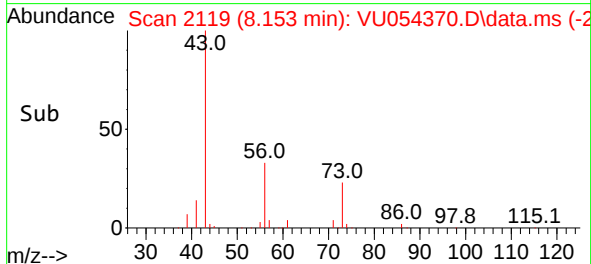
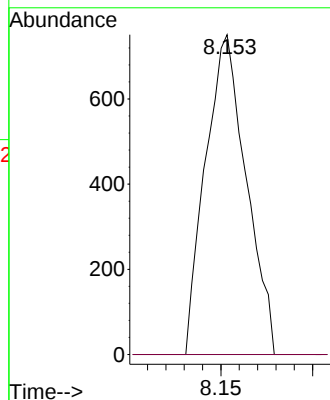
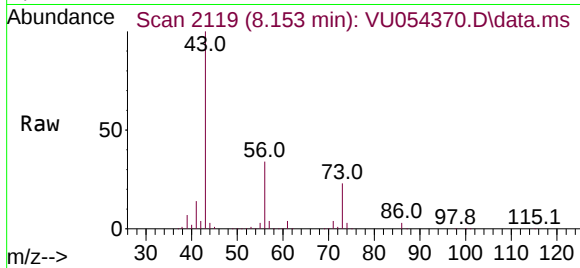




#53
 t-1,3-Dichloropropene
 Concen: 0.214 ug/l
 RT: 8.153 min Scan# 2119
 Delta R.T. -0.052 min
 Lab File: VU054370.D
 Acq: 01 Jun 2023 04:27

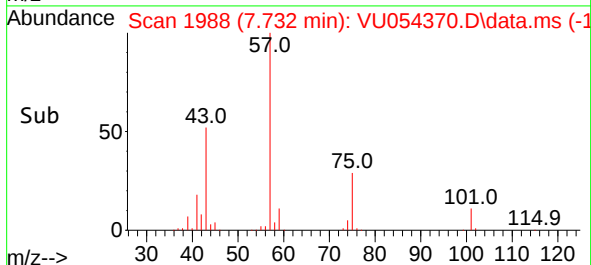
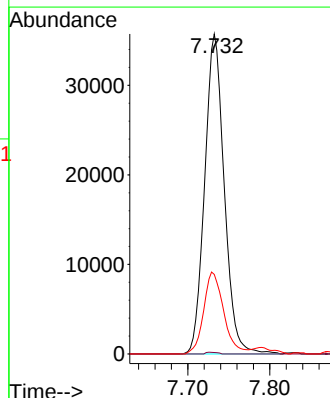
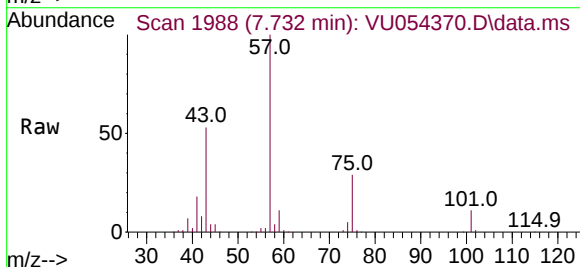
Instrument :
 MSVOA_U
 ClientSampleId :
 TP-5

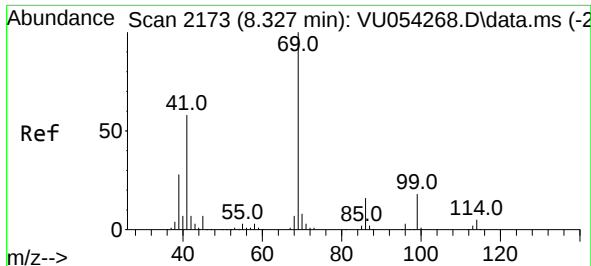
Tgt Ion: 75 Resp: 1158
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.0#



#54
 cis-1,3-Dichloropropene
 Concen: 10.458 ug/l
 RT: 7.732 min Scan# 1988
 Delta R.T. 0.132 min
 Lab File: VU054370.D
 Acq: 01 Jun 2023 04:27

Tgt Ion: 75 Resp: 59170
 Ion Ratio Lower Upper
 75 100
 77 0.5 25.7 38.5#
 39 24.9 33.0 49.6#

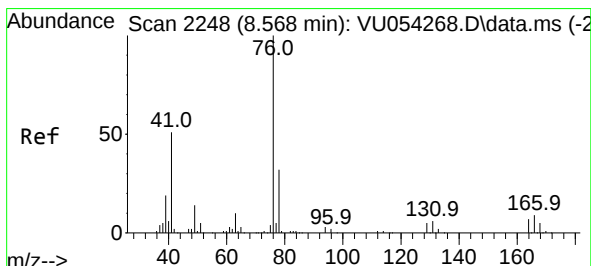
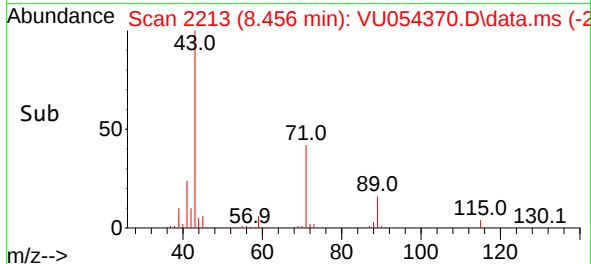
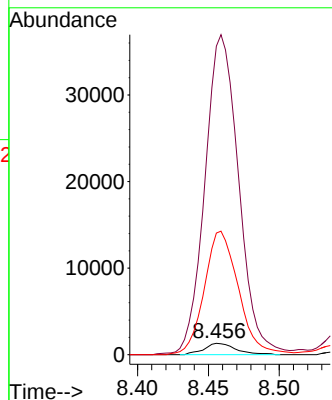
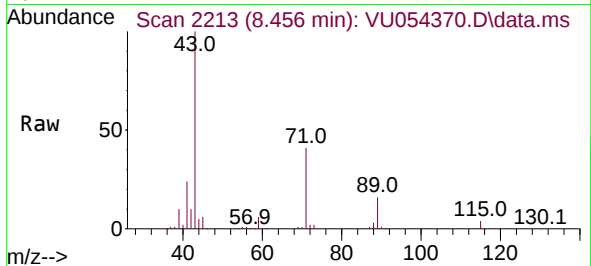




#56
Ethyl methacrylate
Concen: 0.398 ug/l
RT: 8.456 min Scan# 2173
Delta R.T. 0.129 min
Lab File: VU054370.D
Acq: 01 Jun 2023 04:27

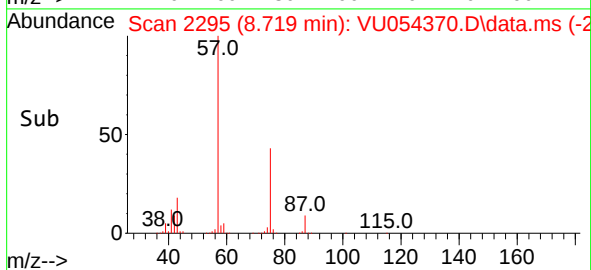
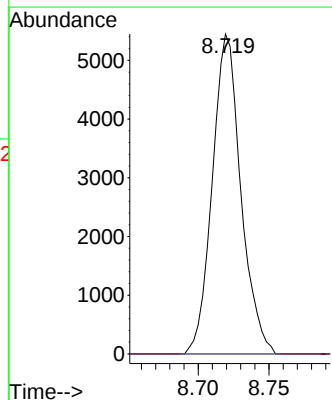
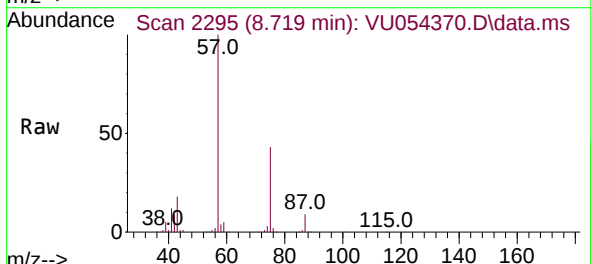
Instrument :
MSVOA_U
ClientSampleId :
TP-5

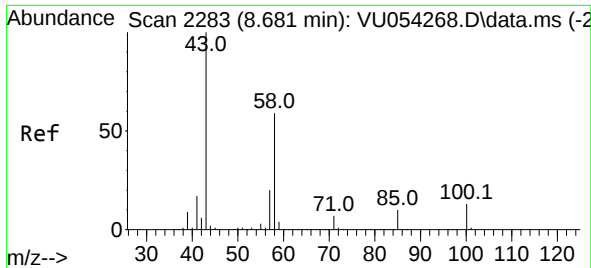
Tgt Ion: 69 Resp: 2068
Ion Ratio Lower Upper
69 100
41 2970.5 45.4 68.0#
39 1157.4 25.7 38.5#



#57
1,3-Dichloropropane
Concen: 1.273 ug/l
RT: 8.719 min Scan# 2295
Delta R.T. 0.151 min
Lab File: VU054370.D
Acq: 01 Jun 2023 04:27

Tgt Ion: 76 Resp: 7644
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

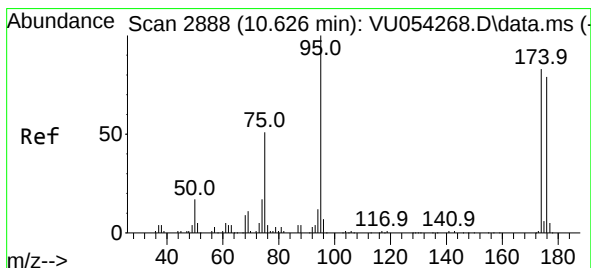
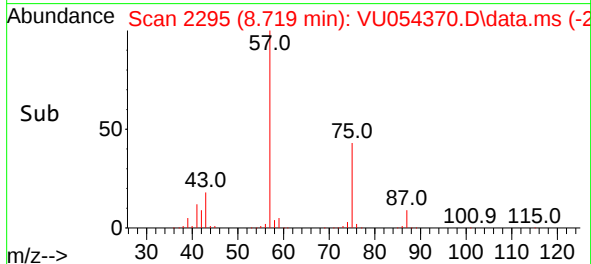
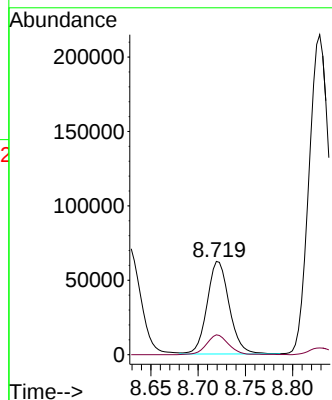
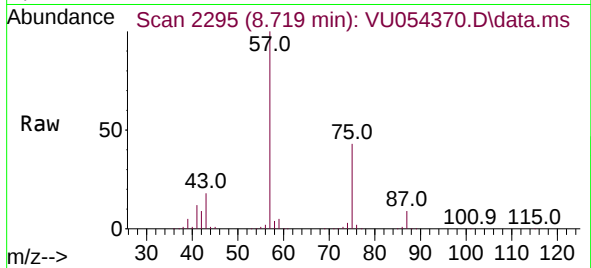




#59
2-Hexanone
Concen: 24.704 ug/l
RT: 8.719 min Scan# 21
Delta R.T. 0.038 min
Lab File: VU054370.D
Acq: 01 Jun 2023 04:27

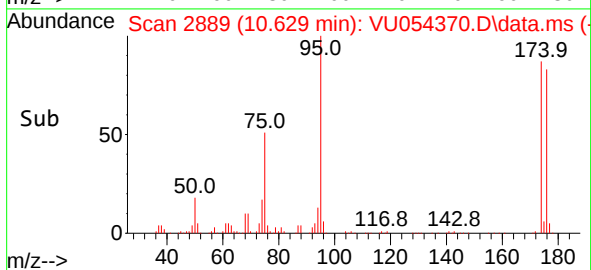
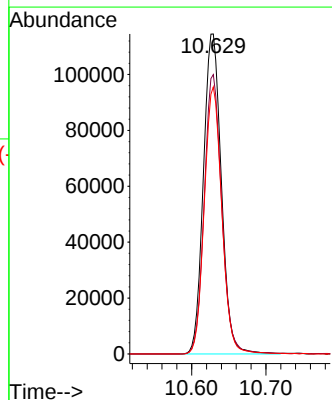
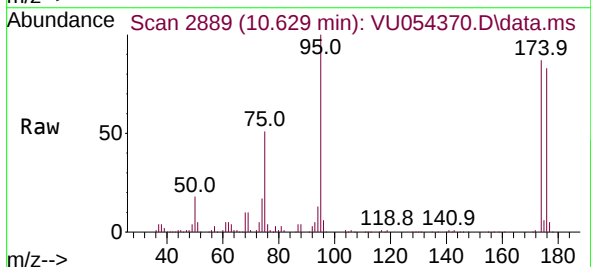
Instrument :
MSVOA_U
ClientSampleId :
TP-5

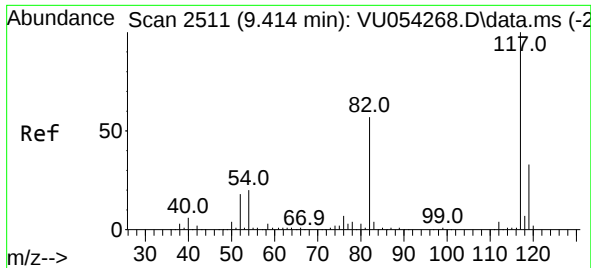
Tgt Ion: 43 Resp: 101276
Ion Ratio Lower Upper
43 100
58 21.3 30.3 90.8#



#62
4-Bromofluorobenzene
Concen: 44.141 ug/l
RT: 10.629 min Scan# 2889
Delta R.T. 0.003 min
Lab File: VU054370.D
Acq: 01 Jun 2023 04:27

Tgt Ion: 95 Resp: 191745
Ion Ratio Lower Upper
95 100
174 85.0 0.0 182.0
176 81.8 0.0 177.8

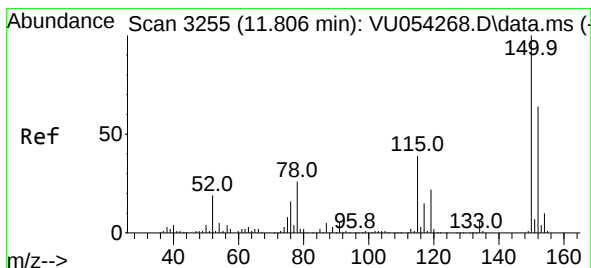
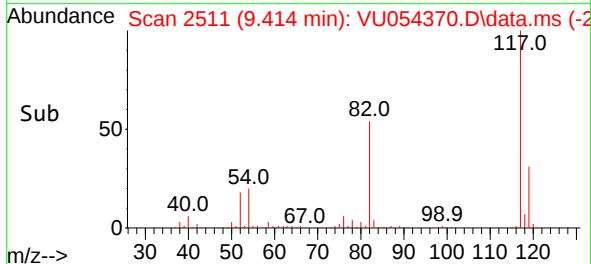
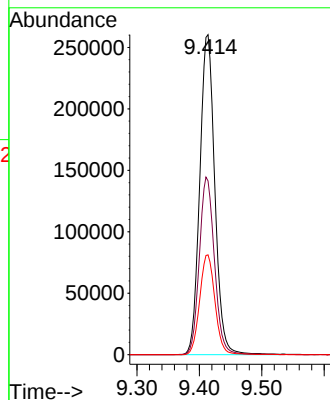
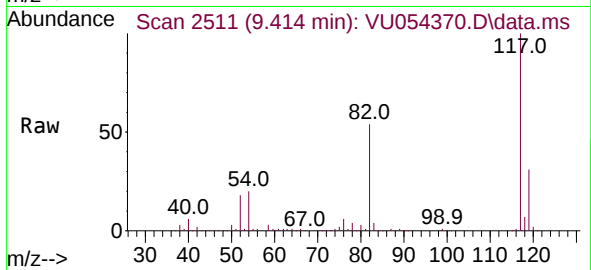




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.414 min Scan# 2511
Delta R.T. -0.000 min
Lab File: VU054370.D
Acq: 01 Jun 2023 04:27

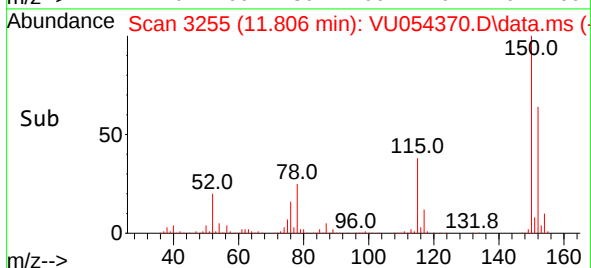
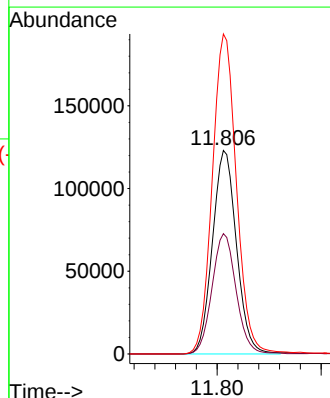
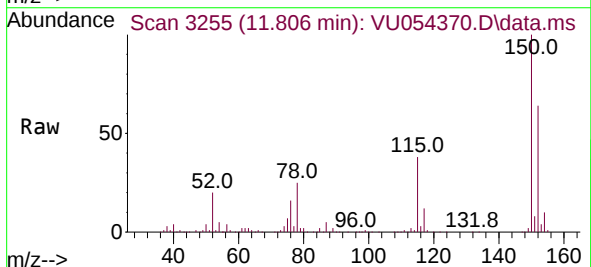
Instrument :
MSVOA_U
ClientSampleId :
TP-5

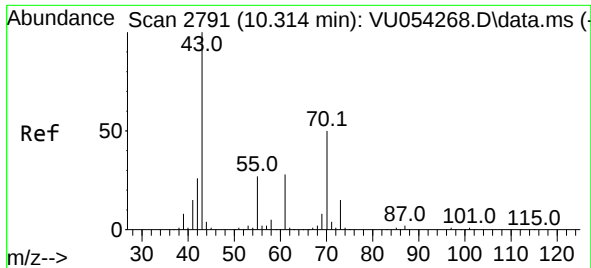
Tgt Ion:117 Resp: 437089
Ion Ratio Lower Upper
117 100
82 54.3 41.7 62.5
119 31.2 25.7 38.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.806 min Scan# 3255
Delta R.T. -0.000 min
Lab File: VU054370.D
Acq: 01 Jun 2023 04:27

Tgt Ion:152 Resp: 197445
Ion Ratio Lower Upper
152 100
115 59.4 37.0 110.9
150 157.9 0.0 342.2



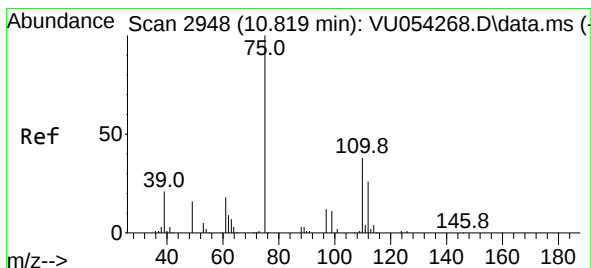
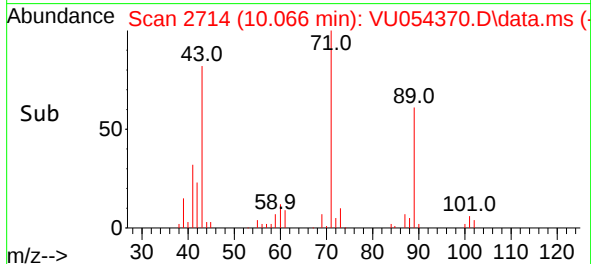
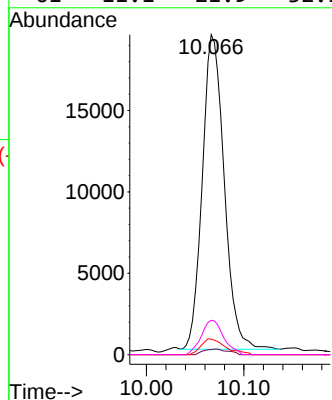
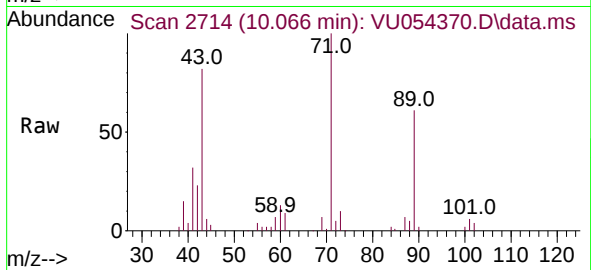


#74
N-amy1 acetate
Concen: 5.811 ug/l
RT: 10.066 min Scan# 21
Delta R.T. -0.248 min
Lab File: VU054370.D
Acq: 01 Jun 2023 04:27

Instrument :
MSVOA_U
ClientSampleId :
TP-5

Tgt Ion: 43 Resp: 30174

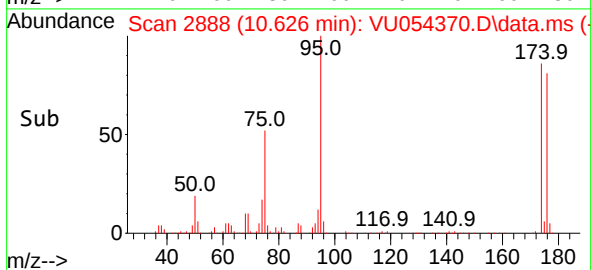
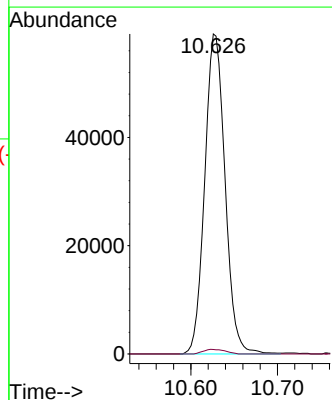
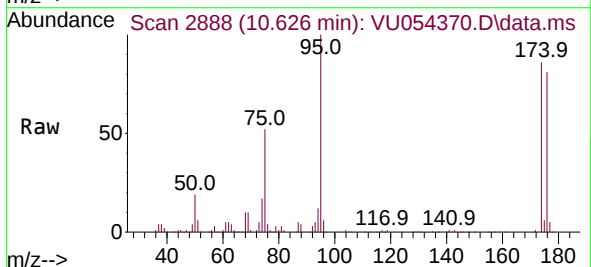
Ion	Ratio	Lower	Upper
43	100		
70	2.0	38.7	58.1#
55	5.6	21.8	32.8#
61	11.1	21.9	32.9#

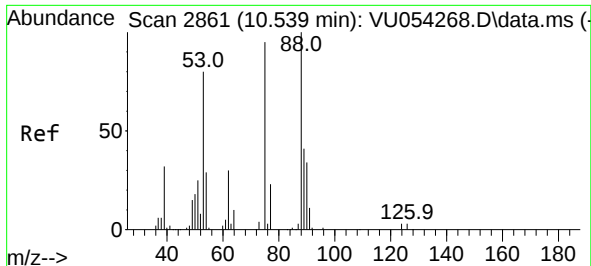


#76
1,2,3-Trichloropropane
Concen: 16.705 ug/l
RT: 10.626 min Scan# 2888
Delta R.T. -0.193 min
Lab File: VU054370.D
Acq: 01 Jun 2023 04:27

Tgt Ion: 75 Resp: 96263

Ion	Ratio	Lower	Upper
75	100		
77	1.6	15.8	47.3#

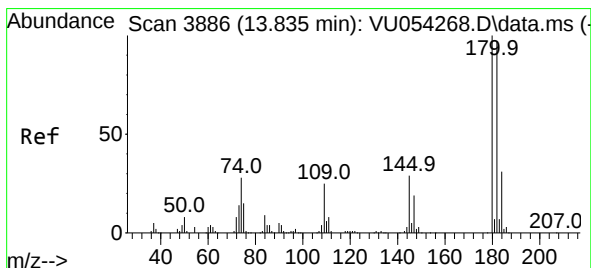
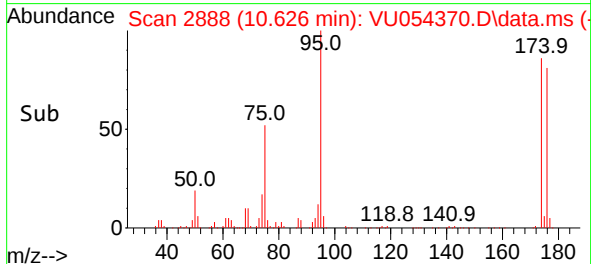
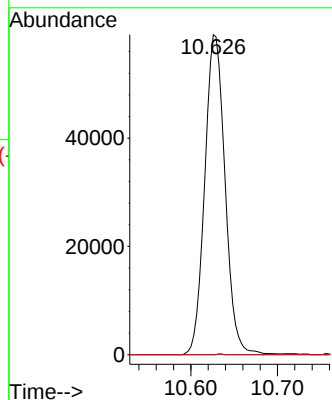
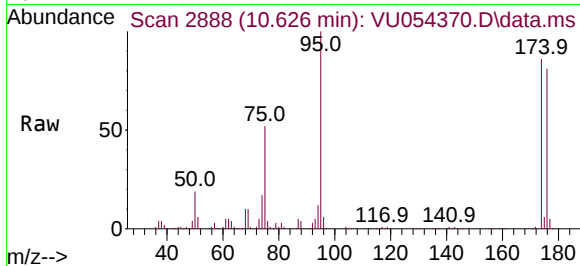




#81
trans-1,4-Dichloro-2-butene
Concen: 63.611 ug/l
RT: 10.626 min Scan# 21
Delta R.T. 0.087 min
Lab File: VU054370.D
Acq: 01 Jun 2023 04:27

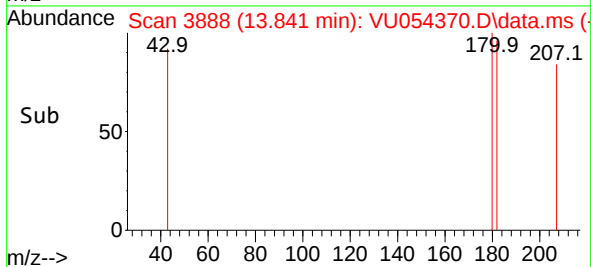
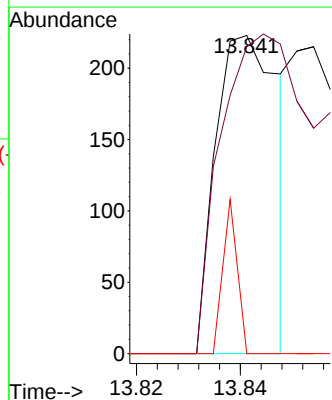
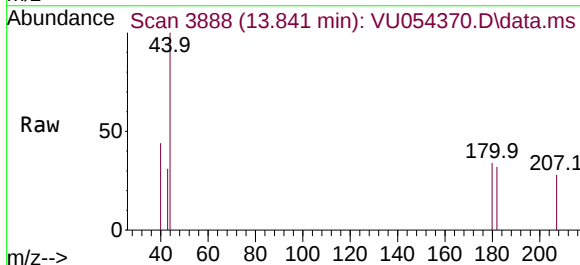
Instrument :
MSVOA_U
ClientSampleId :
TP-5

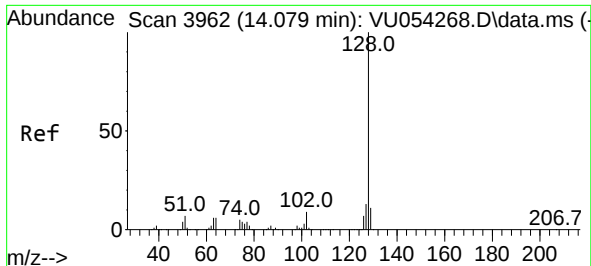
Tgt Ion: 75 Resp: 96263
Ion Ratio Lower Upper
75 100
53 0.0 69.2 103.8#
89 0.1 37.0 55.6#



#93
1,2,4-Trichlorobenzene
Concen: 1.683 ug/l
RT: 13.841 min Scan# 3888
Delta R.T. 0.006 min
Lab File: VU054370.D
Acq: 01 Jun 2023 04:27

Tgt Ion:180 Resp: 188
Ion Ratio Lower Upper
180 100
182 133.5 47.9 143.6
145 11.2 14.0 41.9#

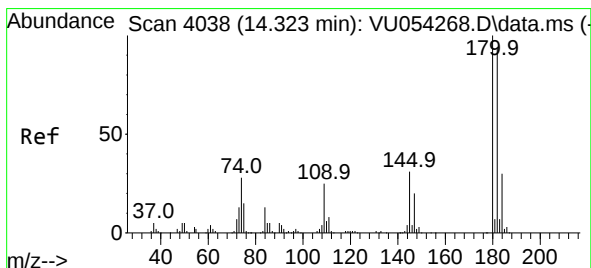
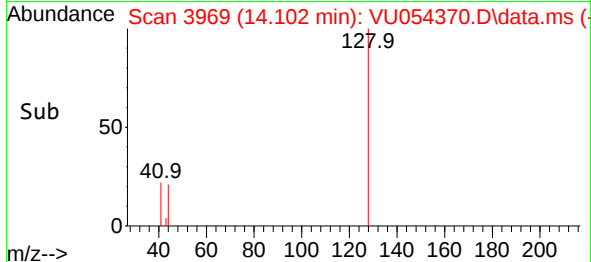
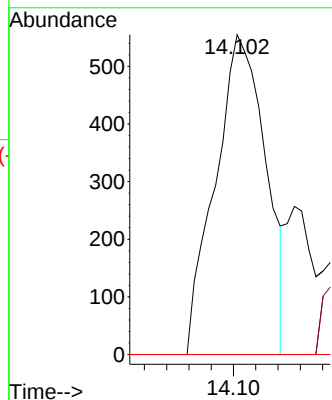
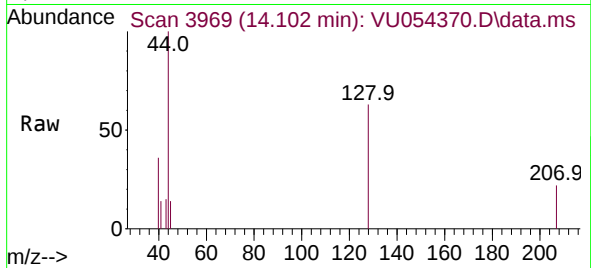




#95
Naphthalene
Concen: 2.049 ug/l
RT: 14.102 min Scan# 3969
Delta R.T. 0.023 min
Lab File: VU054370.D
Acq: 01 Jun 2023 04:27

Instrument : MSVOA_U
ClientSampleId : TP-5

Tgt Ion:128	Resp:	876
Ion Ratio	Lower	Upper
128	100	
127	0.0	10.3
129	0.0	8.6



#96
1,2,3-Trichlorobenzene
Concen: 1.297 ug/l
RT: 14.336 min Scan# 4042
Delta R.T. 0.013 min
Lab File: VU054370.D
Acq: 01 Jun 2023 04:27

Tgt Ion:180	Resp:	195
Ion Ratio	Lower	Upper
180	100	
182	94.9	48.4
145	0.0	14.8

