

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU053123\
 Data File : VU054373.D
 Acq On : 01 Jun 2023 05:38
 Operator : JC/MD
 Sample : 02986-08
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 TP-15-0A

Quant Time: Jun 01 06:45:15 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)

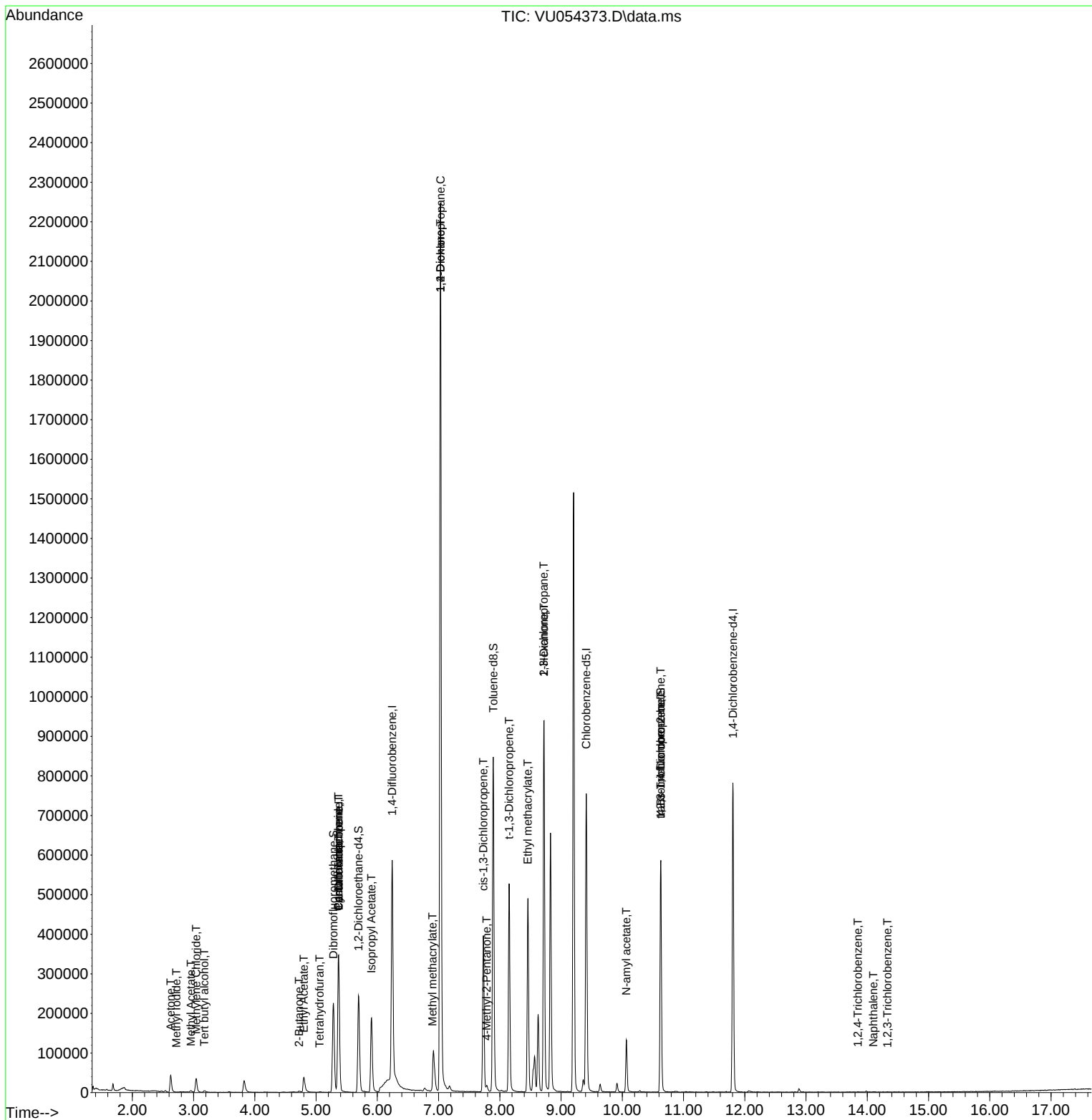
Internal Standards						
1) Pentafluorobenzene	5.369	168	255000	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.244	114	456486	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.411	117	432669	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.806	152	209235	50.000	ug/l	0.00

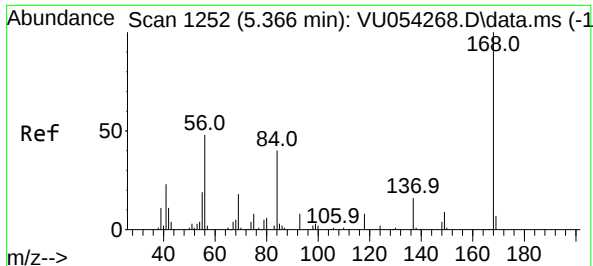
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.694	65	182765	54.674	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 109.340%	
35) Dibromofluoromethane	5.282	113	148354	50.466	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 100.940%	
50) Toluene-d8	7.893	98	563804	50.423	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 100.840%	
62) 4-Bromofluorobenzene	10.629	95	195043	44.987	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 89.980%	

Target Compounds				Qvalue		
10) Methyl Iodide	2.720	142	146	2.375	ug/l #	43
11) Tert butyl alcohol	3.176	59	3089	3.421	ug/l #	37
16) Acetone	2.626	43	51192	26.717	ug/l	98
18) Methyl Acetate	2.957	43	6365	0.910	ug/l #	84
20) Methylene Chloride	3.041	84	17455	5.049	ug/l	91
25) 2-Butanone	4.723	43	4215	1.661	ug/l	91
29) Tetrahydrofuran	5.057	42	396	0.248	ug/l #	81
31) Cyclohexane	5.366	56	5022	1.064	ug/l #	1
36) 1,1-Dichloropropene	5.369	75	18816	4.075	ug/l #	48
37) Ethyl Acetate	4.800	43	52653	9.357	ug/l #	93
38) Carbon Tetrachloride	5.366	117	24570	5.199	ug/l #	16
43) Isopropyl Acetate	5.906	43	201971	26.021	ug/l	98
45) 1,2-Dichloropropane	7.035	63	2871	0.836	ug/l #	43
48) Methyl methacrylate	6.903	41	6733	1.956	ug/l #	34
49) 1,4-Dioxane	7.031	88	304	3.059	ug/l #	1
51) 4-Methyl-2-Pentanone	7.787	43	10325	1.993	ug/l	88
53) t-1,3-Dichloropropene	8.153	75	1392	0.257	ug/l #	43
54) cis-1,3-Dichloropropene	7.732	75	72327	12.808	ug/l #	61
56) Ethyl methacrylate	8.456	69	2591	0.500	ug/l #	1
57) 1,3-Dichloropropane	8.719	76	9904	1.652	ug/l #	42
59) 2-Hexanone	8.723	43	120429	29.432	ug/l #	49
74) N-amyl acetate	10.067	43	41982	7.630	ug/l #	48
76) 1,2,3-Trichloropropane	10.626	75	98343	16.104	ug/l #	46
81) trans-1,4-Dichloro-2-b...	10.626	75	98343	61.323	ug/l #	15
93) 1,2,4-Trichlorobenzene	13.845	180	175	1.679	ug/l #	49
95) Naphthalene	14.099	128	1112	2.060	ug/l #	69
96) 1,2,3-Trichlorobenzene	14.330	180	182	1.292	ug/l #	58

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

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U052523W.M
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Response via : Initial Calibration

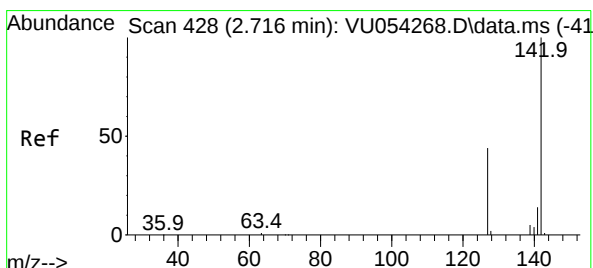
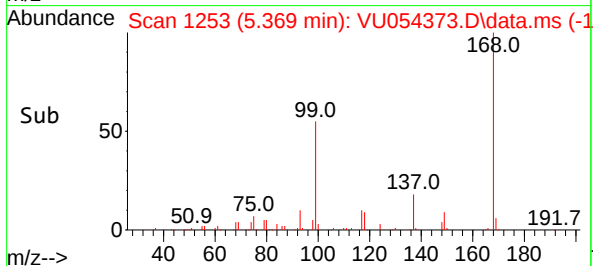
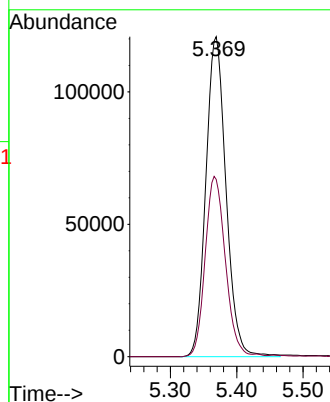
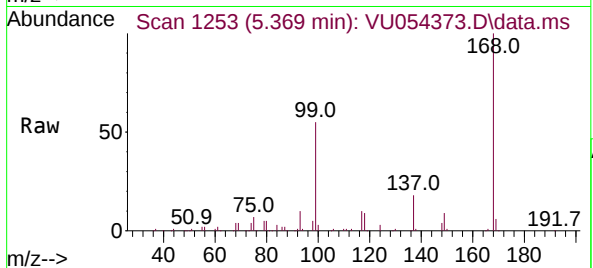




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.369 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU054373.D
Acq: 01 Jun 2023 05:38

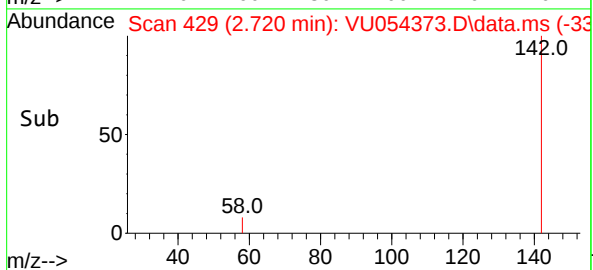
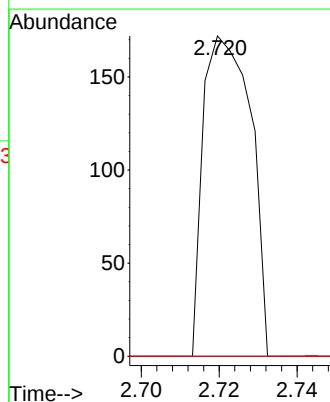
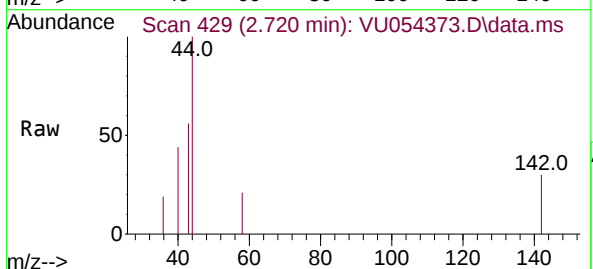
Instrument :
MSVOA_U
ClientSampleId :
TP-15-0A

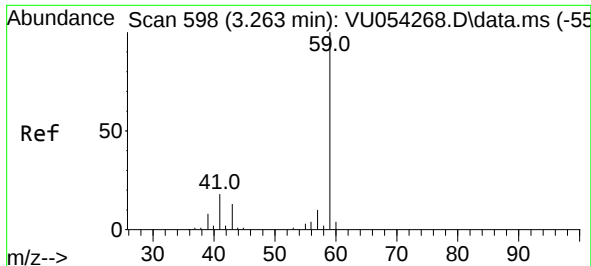
Tgt Ion:168 Resp: 255000
Ion Ratio Lower Upper
168 100
99 55.4 39.3 58.9



#10
Methyl Iodide
Concen: 2.375 ug/l
RT: 2.720 min Scan# 429
Delta R.T. 0.004 min
Lab File: VU054373.D
Acq: 01 Jun 2023 05:38

Tgt Ion:142 Resp: 146
Ion Ratio Lower Upper
142 100
127 0.0 32.5 48.7#
141 0.0 11.4 17.0#

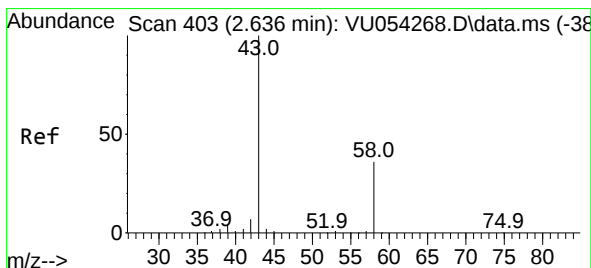
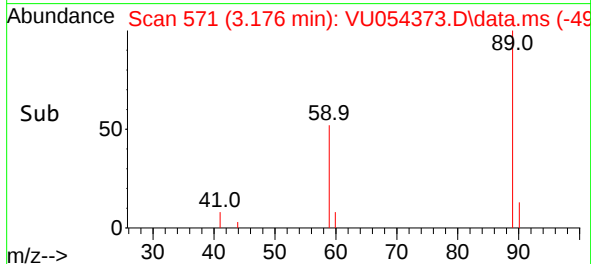
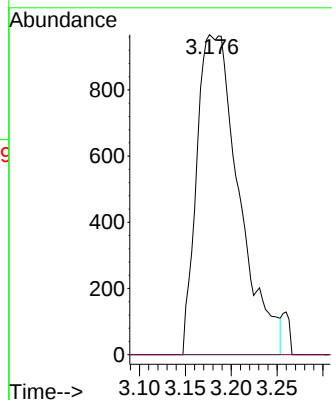
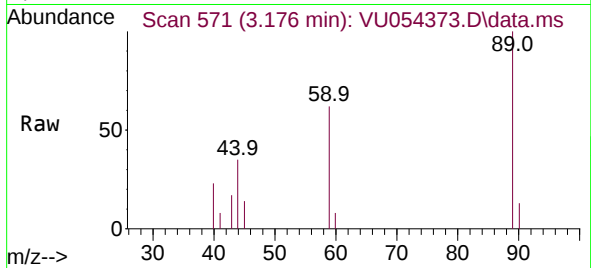




#11
Tert butyl alcohol
Concen: 3.421 ug/l
RT: 3.176 min Scan# 51
Delta R.T. -0.067 min
Lab File: VU054373.D
Acq: 01 Jun 2023 05:38

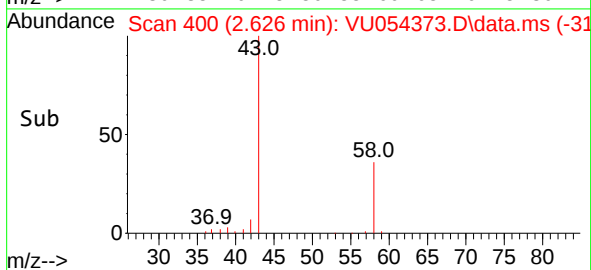
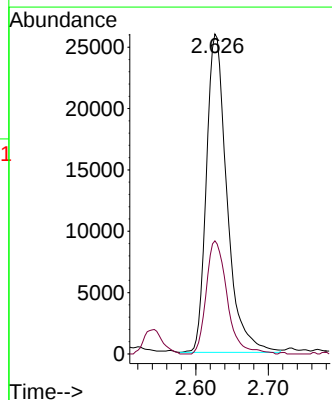
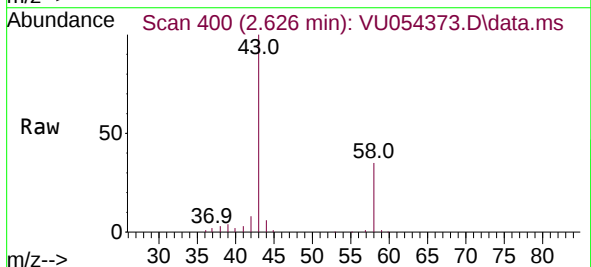
Instrument :
MSVOA_U
ClientSampleId :
TP-15-0A

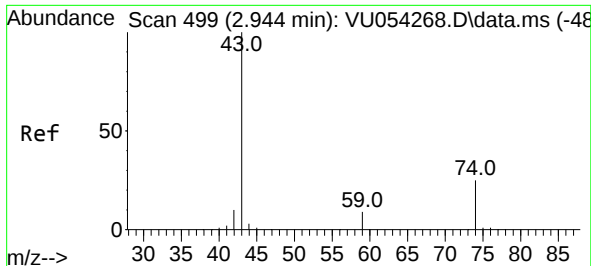
Tgt Ion: 59 Resp: 3089
Ion Ratio Lower Upper
59 100
57 0.0 30.6 45.8#



#16
Acetone
Concen: 26.717 ug/l
RT: 2.626 min Scan# 400
Delta R.T. -0.010 min
Lab File: VU054373.D
Acq: 01 Jun 2023 05:38

Tgt Ion: 43 Resp: 51192
Ion Ratio Lower Upper
43 100
58 35.5 27.5 41.3

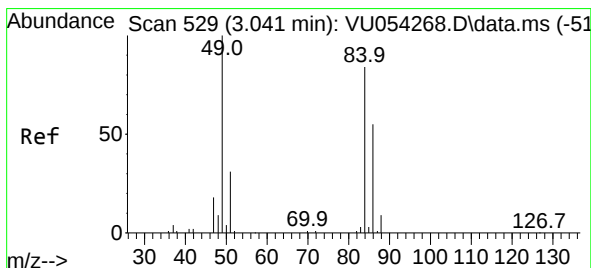
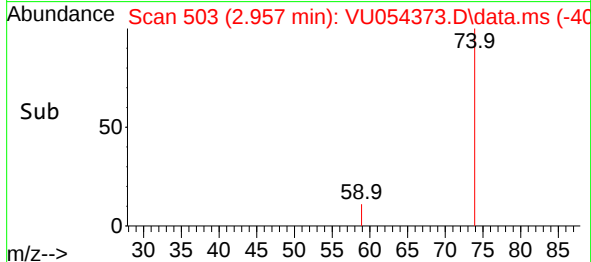
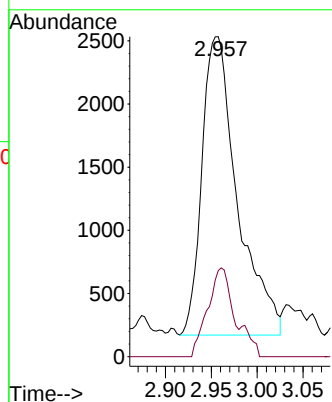
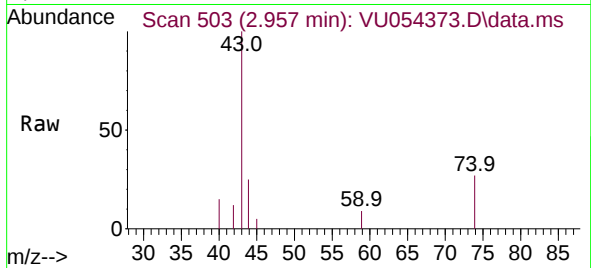




#18
Methyl Acetate
Concen: 0.910 ug/l
RT: 2.957 min Scan# 503
Delta R.T. 0.013 min
Lab File: VU054373.D
Acq: 01 Jun 2023 05:38

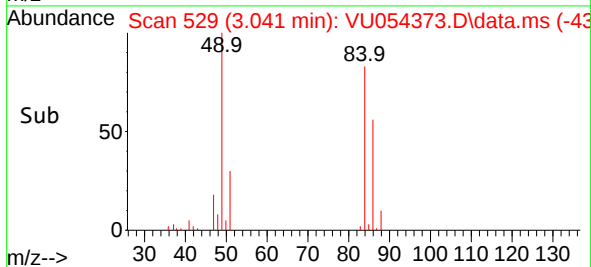
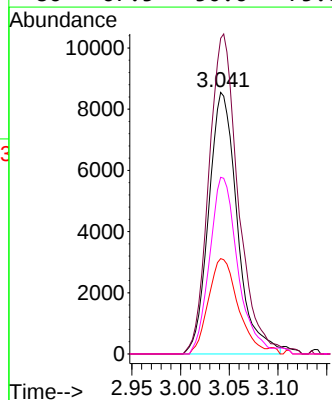
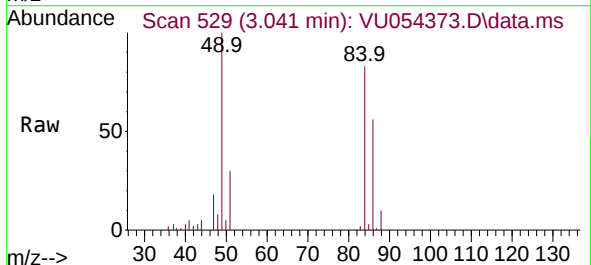
Instrument :
MSVOA_U
ClientSampleId :
TP-15-0A

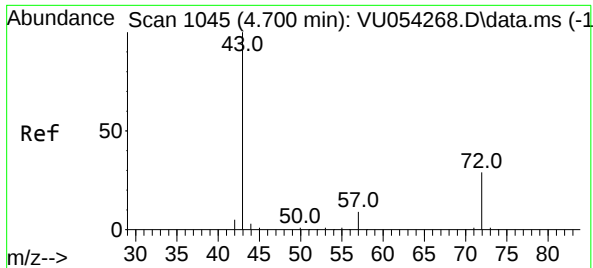
Tgt Ion: 43 Resp: 6365
Ion Ratio Lower Upper
43 100
74 19.8 22.5 33.7#



#20
Methylene Chloride
Concen: 5.049 ug/l
RT: 3.041 min Scan# 529
Delta R.T. 0.000 min
Lab File: VU054373.D
Acq: 01 Jun 2023 05:38

Tgt Ion: 84 Resp: 17455
Ion Ratio Lower Upper
84 100
49 120.6 86.6 129.8
51 36.4 26.6 40.0
86 67.5 50.6 75.8

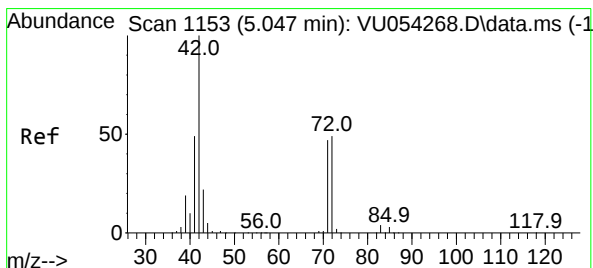
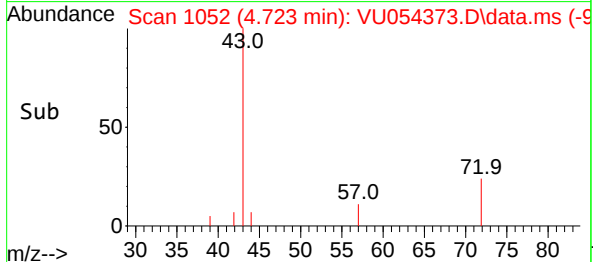
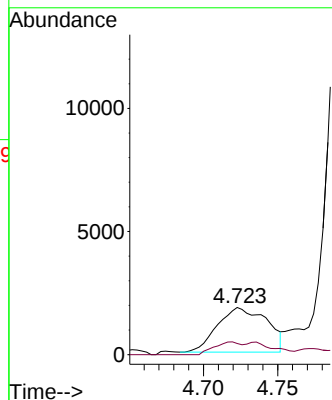
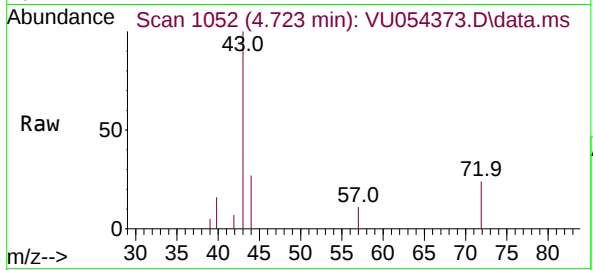




#25
2-Butanone
Concen: 1.661 ug/l
RT: 4.723 min Scan# 1052
Delta R.T. 0.023 min
Lab File: VU054373.D
Acq: 01 Jun 2023 05:38

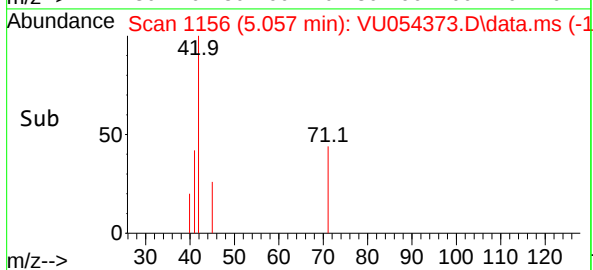
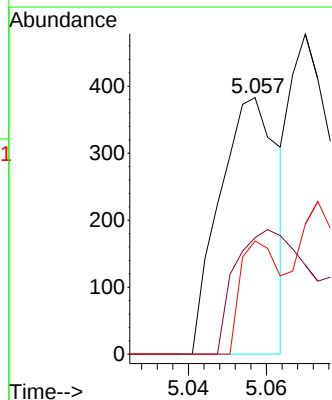
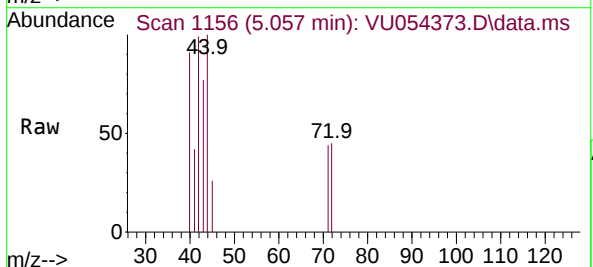
Instrument :
MSVOA_U
ClientSampleId :
TP-15-0A

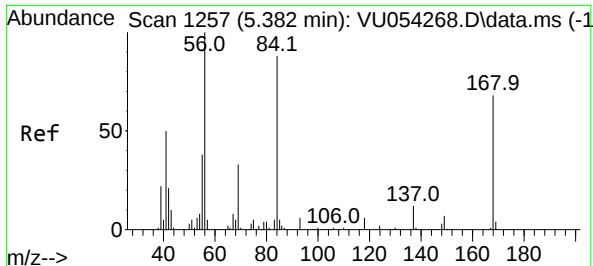
Tgt Ion: 43 Resp: 4215
Ion Ratio Lower Upper
43 100
72 25.0 23.8 35.6



#29
Tetrahydrofuran
Concen: 0.248 ug/l
RT: 5.057 min Scan# 1156
Delta R.T. 0.010 min
Lab File: VU054373.D
Acq: 01 Jun 2023 05:38

Tgt Ion: 42 Resp: 396
Ion Ratio Lower Upper
42 100
72 58.8 42.6 63.8
71 28.8 40.3 60.5#

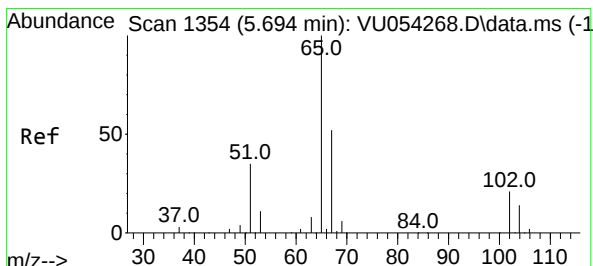
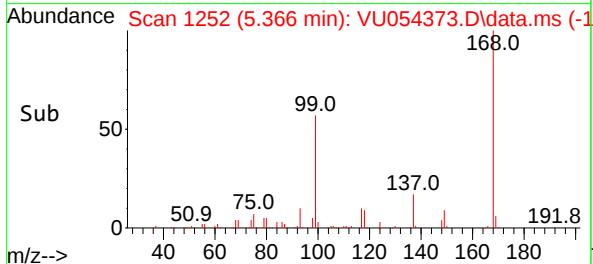
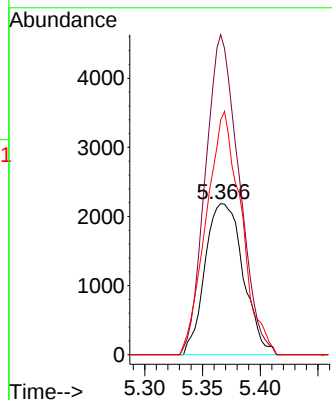
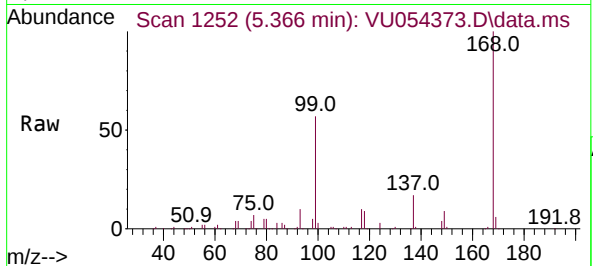




#31
Cyclohexane
Concen: 1.064 ug/l
RT: 5.366 min Scan# 11
Delta R.T. -0.016 min
Lab File: VU054373.D
Acq: 01 Jun 2023 05:38

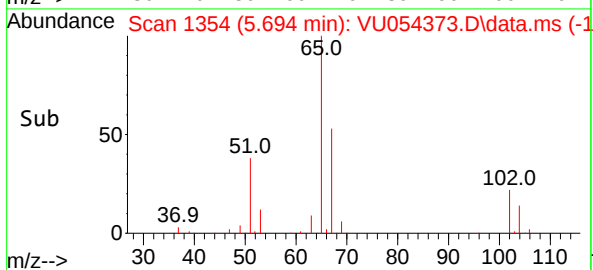
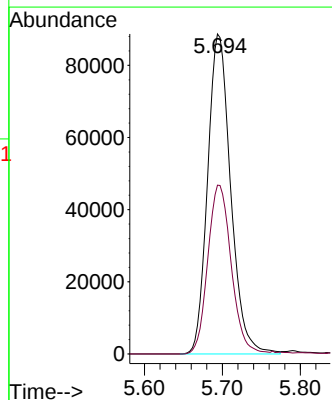
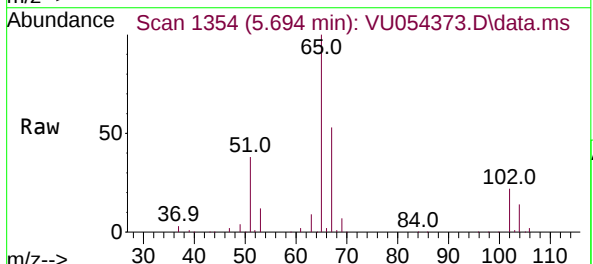
Instrument :
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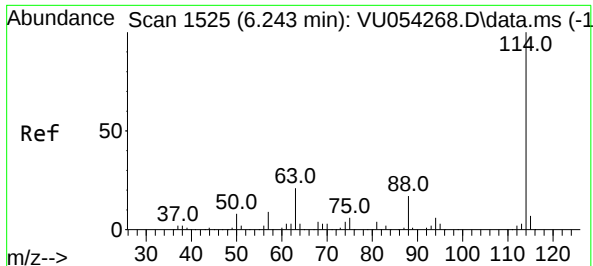
Tgt Ion: 56 Resp: 5022
Ion Ratio Lower Upper
56 100
69 211.8 27.8 41.8#
84 155.2 74.2 111.4#



#33
1,2-Dichloroethane-d4
Concen: 54.674 ug/l
RT: 5.694 min Scan# 1354
Delta R.T. -0.000 min
Lab File: VU054373.D
Acq: 01 Jun 2023 05:38

Tgt Ion: 65 Resp: 182765
Ion Ratio Lower Upper
65 100
67 53.6 0.0 108.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.244 min Scan# 11

Delta R.T. 0.001 min

Lab File: VU054373.D

Acq: 01 Jun 2023 05:38

Instrument :

MSVOA_U

ClientSampleId :

TP-15-0A

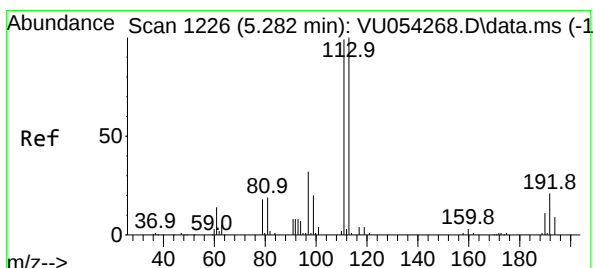
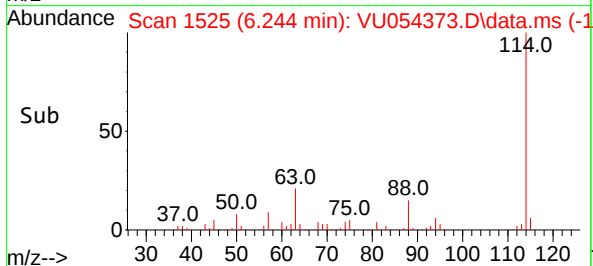
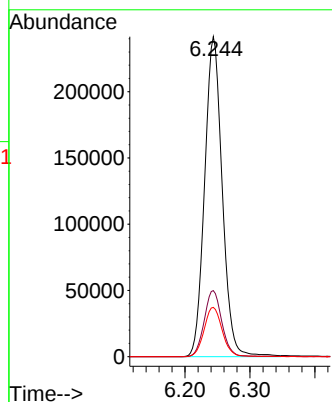
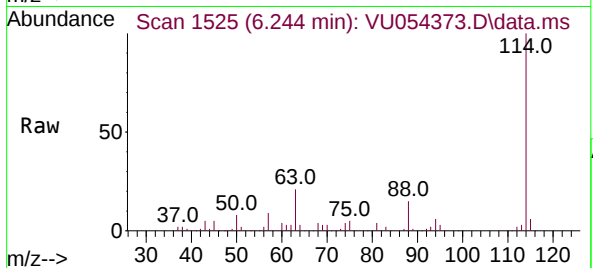
Tgt Ion:114 Resp: 456486

Ion Ratio Lower Upper

114 100

63 20.6 0.0 37.8

88 15.4 0.0 29.2



#35

Dibromofluoromethane

Concen: 50.466 ug/l

RT: 5.282 min Scan# 1226

Delta R.T. 0.000 min

Lab File: VU054373.D

Acq: 01 Jun 2023 05:38

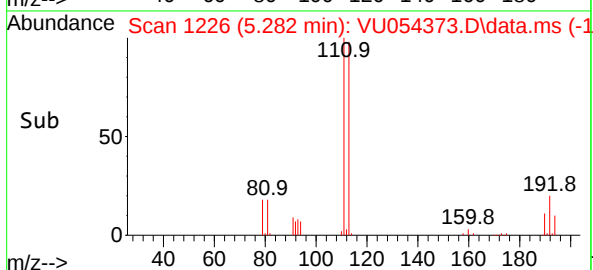
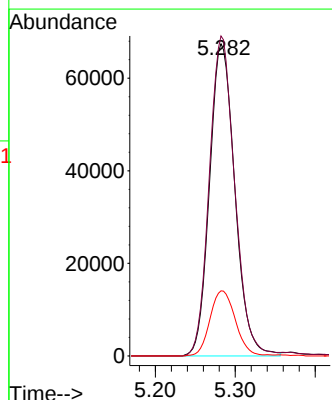
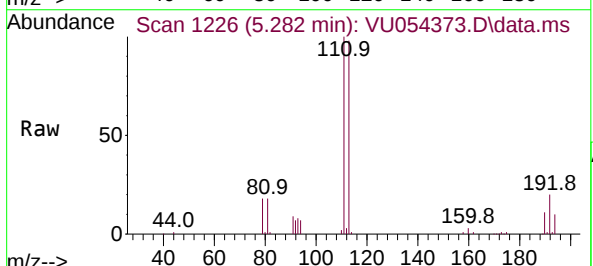
Tgt Ion:113 Resp: 148354

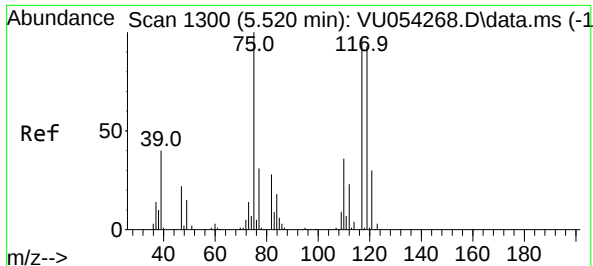
Ion Ratio Lower Upper

113 100

111 102.8 82.1 123.1

192 20.9 18.0 27.0





#36

1,1-Dichloropropene

Concen: 4.075 ug/l

RT: 5.369 min Scan# 11

Delta R.T. -0.151 min

Lab File: VU054373.D

Acq: 01 Jun 2023 05:38

Instrument :

MSVOA_U

ClientSampleId :

TP-15-0A

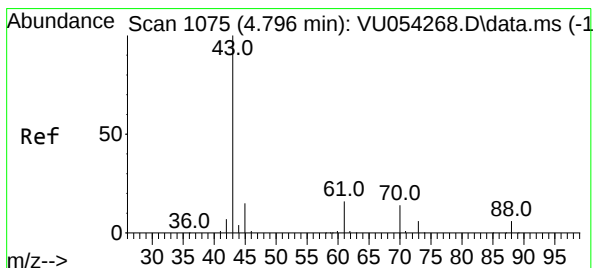
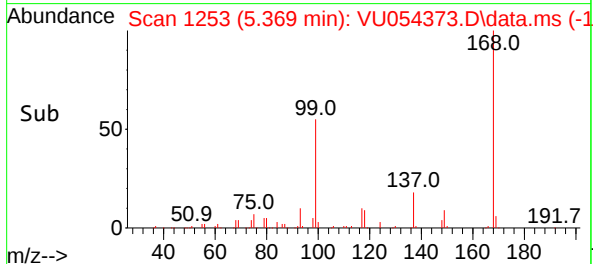
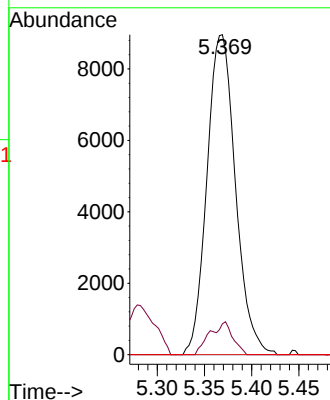
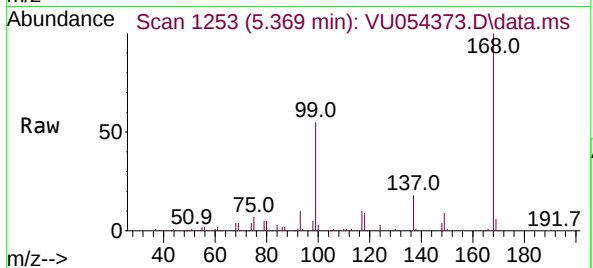
Tgt Ion: 75 Resp: 18816

Ion Ratio Lower Upper

75 100

110 8.2 18.4 55.2#

77 0.0 25.1 37.7#



#37

Ethyl Acetate

Concen: 9.357 ug/l

RT: 4.800 min Scan# 1076

Delta R.T. 0.004 min

Lab File: VU054373.D

Acq: 01 Jun 2023 05:38

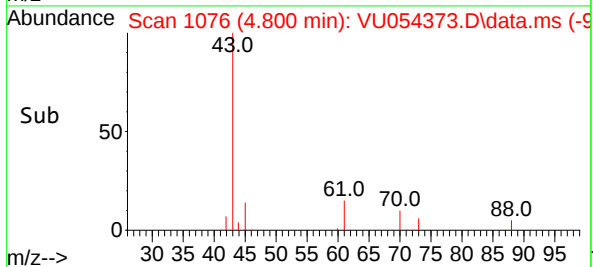
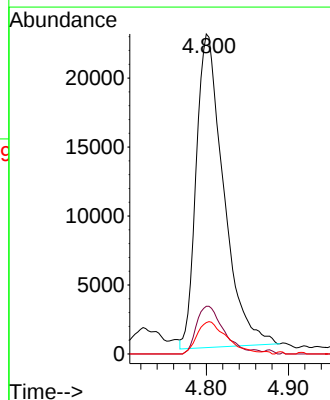
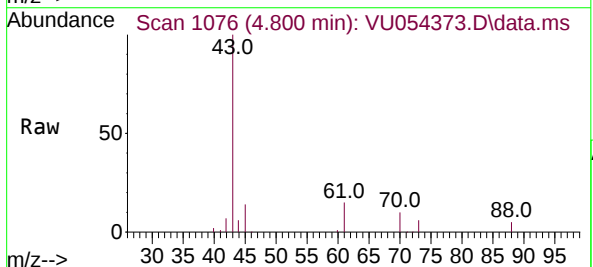
Tgt Ion: 43 Resp: 52653

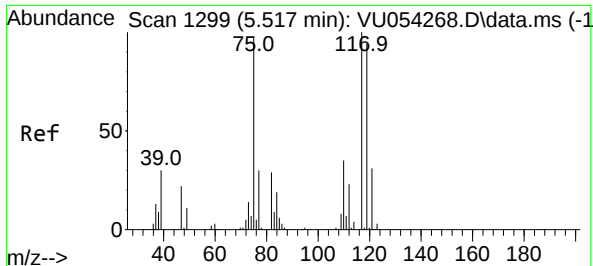
Ion Ratio Lower Upper

43 100

61 15.0 9.5 14.3#

70 11.2 7.5 11.3

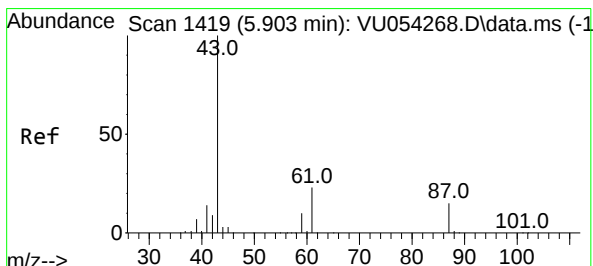
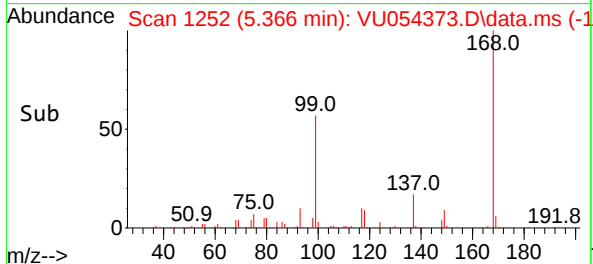
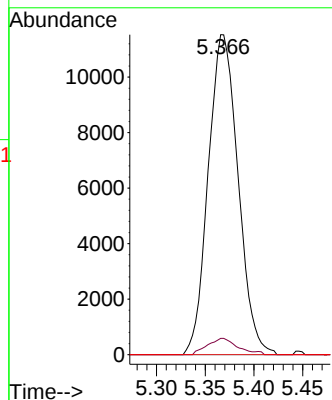
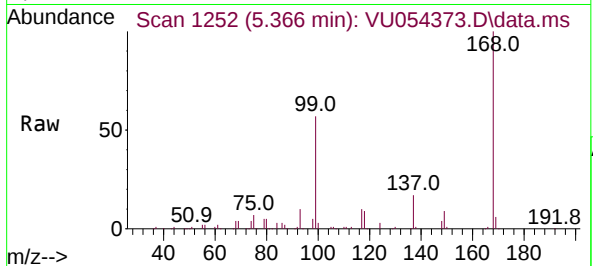




#38
Carbon Tetrachloride
Concen: 5.199 ug/l
RT: 5.366 min Scan# 11
Delta R.T. -0.151 min
Lab File: VU054373.D
Acq: 01 Jun 2023 05:38

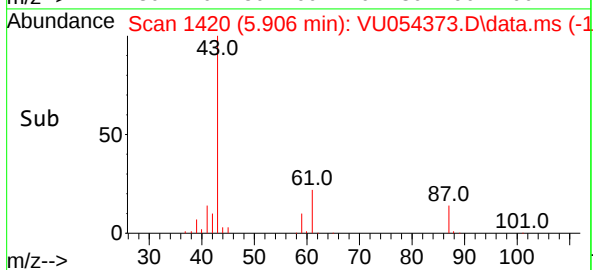
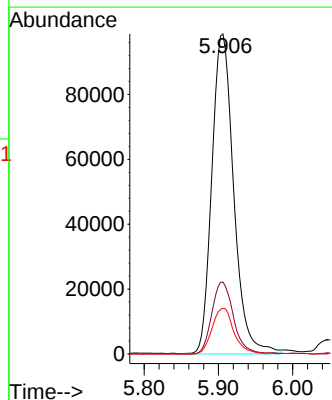
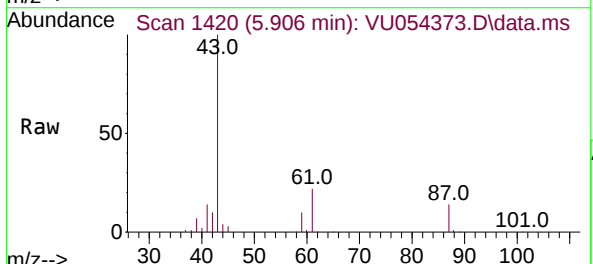
Instrument :
MSVOA_U
ClientSampleId :
TP-15-0A

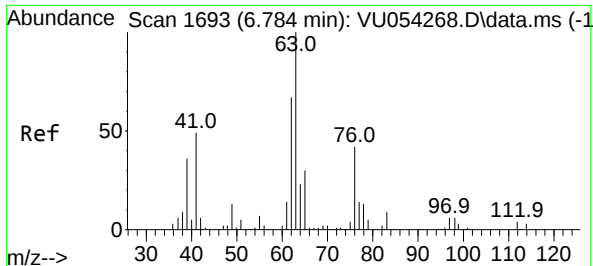
Tgt Ion:117 Resp: 24570
Ion Ratio Lower Upper
117 100
119 5.1 76.8 115.2#
121 0.0 24.7 37.1#



#43
Isopropyl Acetate
Concen: 26.021 ug/l
RT: 5.906 min Scan# 1420
Delta R.T. 0.003 min
Lab File: VU054373.D
Acq: 01 Jun 2023 05:38

Tgt Ion: 43 Resp: 201971
Ion Ratio Lower Upper
43 100
61 22.1 17.4 26.0
87 14.2 12.6 18.8





#45

1,2-Dichloropropane

Concen: 0.836 ug/l

RT: 7.035 min Scan# 1

Delta R.T. 0.251 min

Lab File: VU054373.D

Acq: 01 Jun 2023 05:38

Instrument :

MSVOA_U

ClientSampleId :

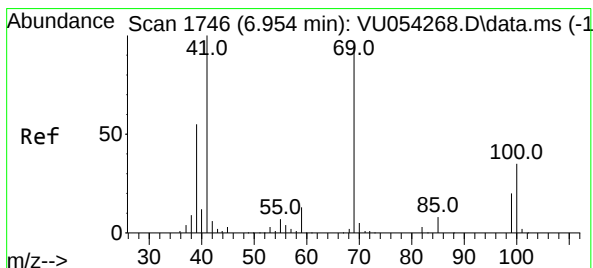
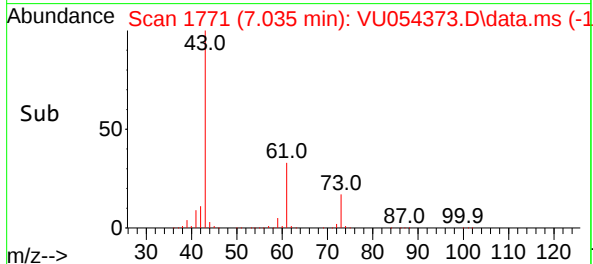
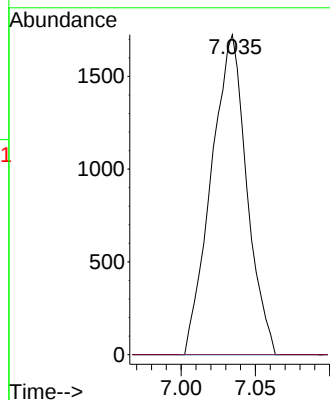
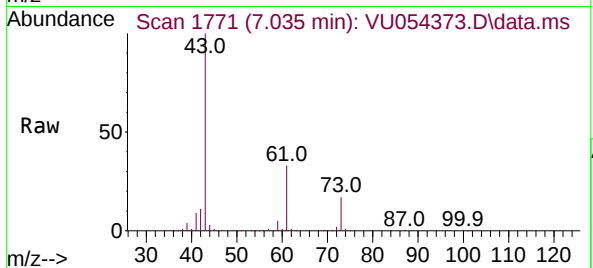
TP-15-0A

Tgt Ion: 63 Resp: 2871

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.4#



#48

Methyl methacrylate

Concen: 1.956 ug/l

RT: 6.903 min Scan# 1730

Delta R.T. -0.051 min

Lab File: VU054373.D

Acq: 01 Jun 2023 05:38

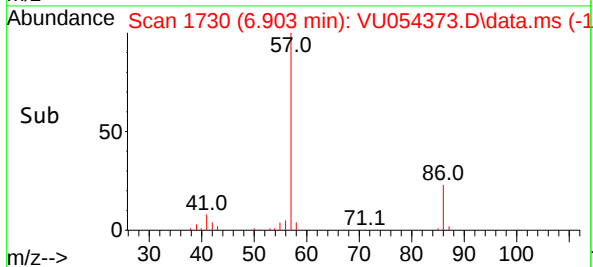
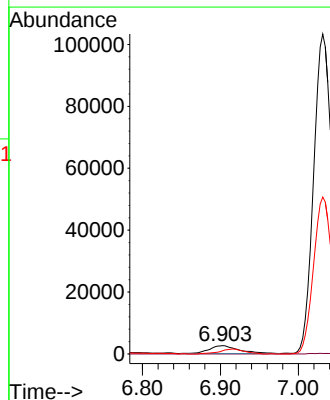
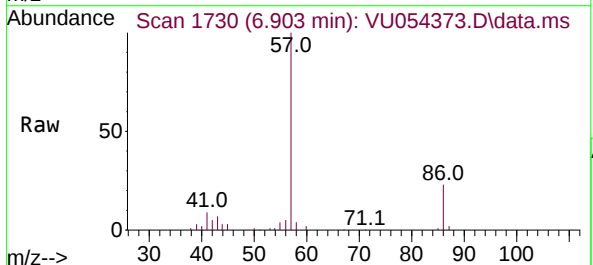
Tgt Ion: 41 Resp: 6733

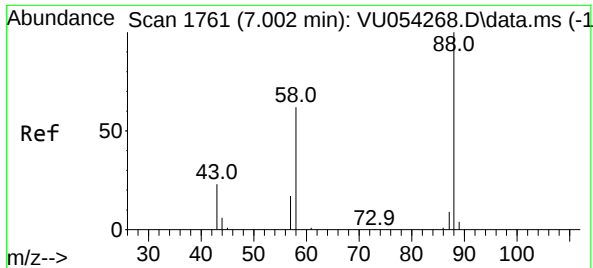
Ion Ratio Lower Upper

41 100

69 0.0 79.8 119.6#

39 51.9 47.9 71.9





#49

1,4-Dioxane

Concen: 3.059 ug/l

RT: 7.031 min Scan# 11

Delta R.T. 0.029 min

Lab File: VU054373.D

Acq: 01 Jun 2023 05:38

Instrument :

MSVOA_U

ClientSampleId :

TP-15-0A

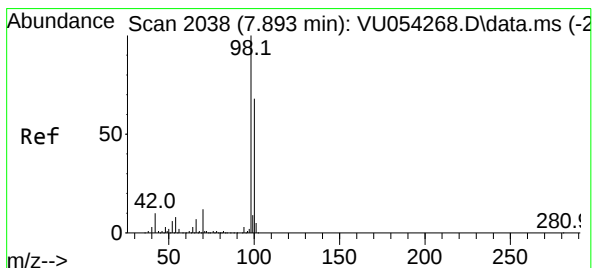
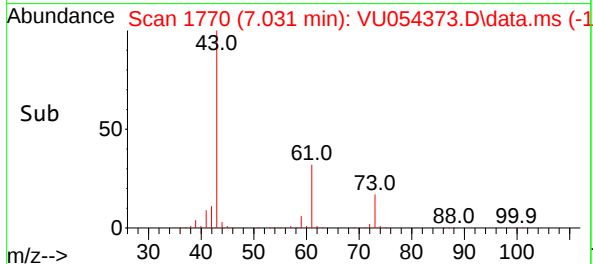
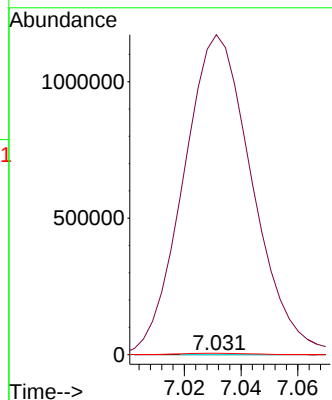
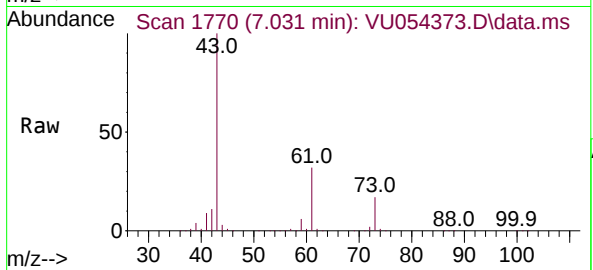
Tgt Ion: 88 Resp: 304

Ion Ratio Lower Upper

88 100

43 664782.6 0.0 0.0#

58 3250.7 15.4 23.0#



#50

Toluene-d8

Concen: 50.423 ug/l

RT: 7.893 min Scan# 2038

Delta R.T. -0.000 min

Lab File: VU054373.D

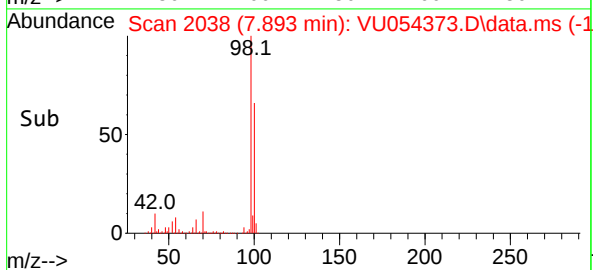
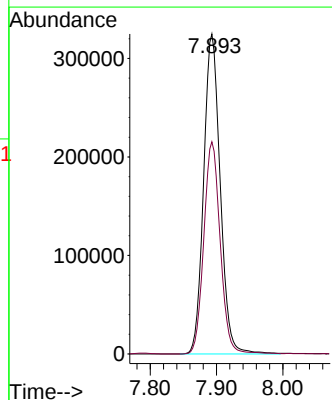
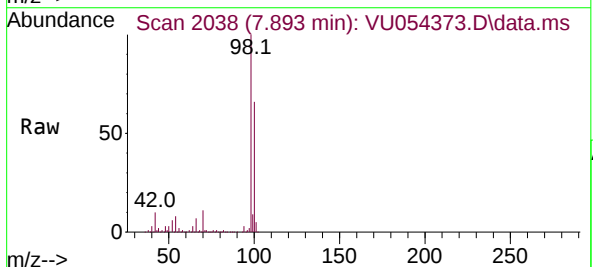
Acq: 01 Jun 2023 05:38

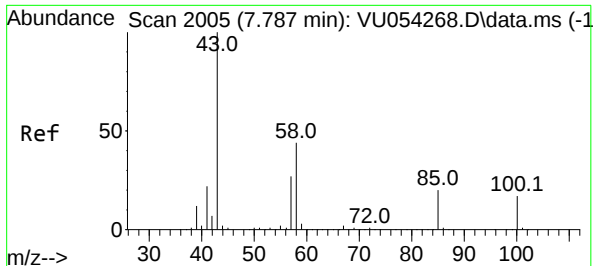
Tgt Ion: 98 Resp: 563804

Ion Ratio Lower Upper

98 100

100 65.7 51.7 77.5

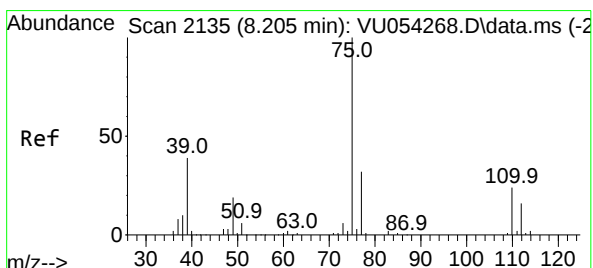
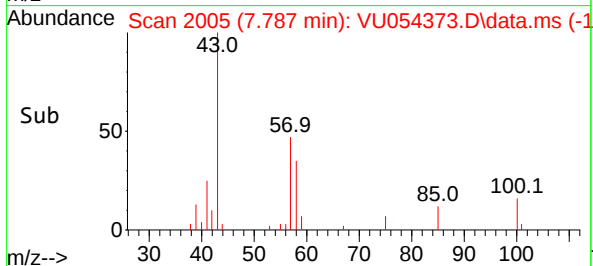
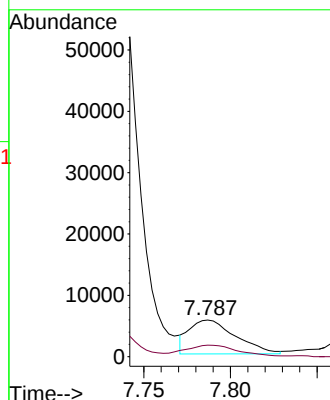
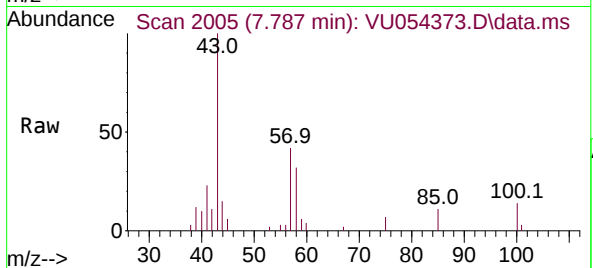




#51
4-Methyl-2-Pentanone
Concen: 1.993 ug/l
RT: 7.787 min Scan# 2005
Delta R.T. -0.000 min
Lab File: VU054373.D
Acq: 01 Jun 2023 05:38

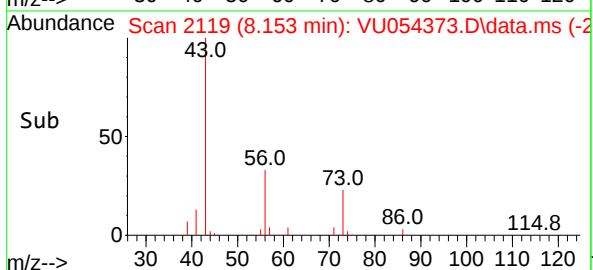
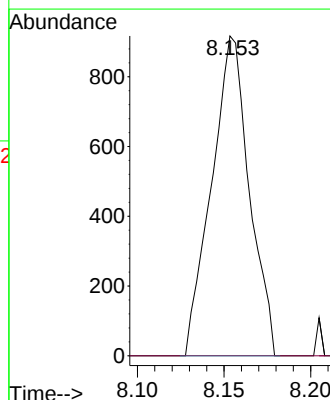
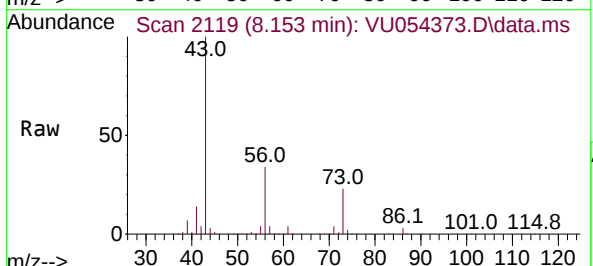
Instrument :
MSVOA_U
ClientSampleId :
TP-15-0A

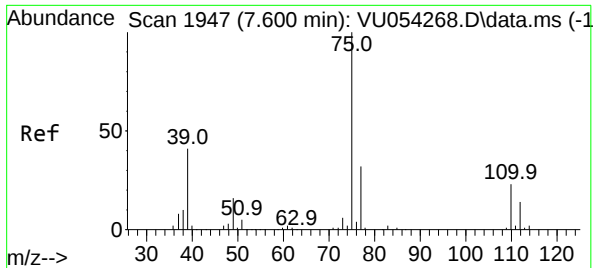
Tgt Ion: 43 Resp: 10325
Ion Ratio Lower Upper
43 100
58 35.9 34.7 52.1



#53
t-1,3-Dichloropropene
Concen: 0.257 ug/l
RT: 8.153 min Scan# 2119
Delta R.T. -0.052 min
Lab File: VU054373.D
Acq: 01 Jun 2023 05:38

Tgt Ion: 75 Resp: 1392
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.0#

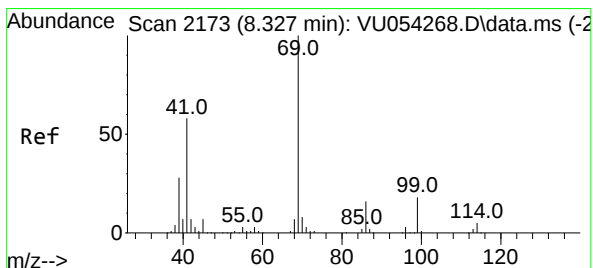
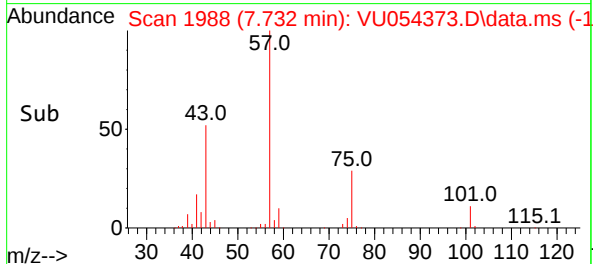
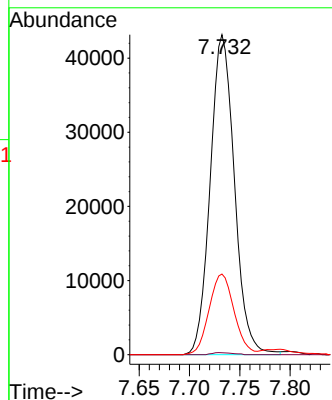
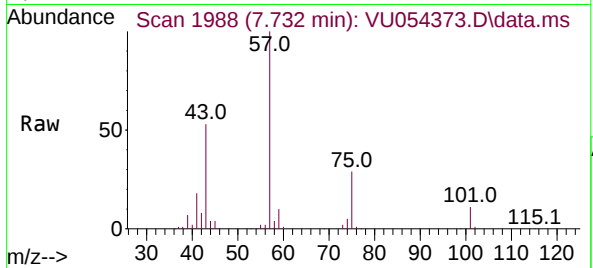




#54
 cis-1,3-Dichloropropene
 Concen: 12.808 ug/l
 RT: 7.732 min Scan# 1947
 Delta R.T. 0.132 min
 Lab File: VU054373.D
 Acq: 01 Jun 2023 05:38

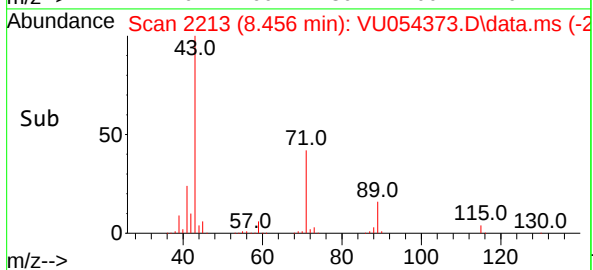
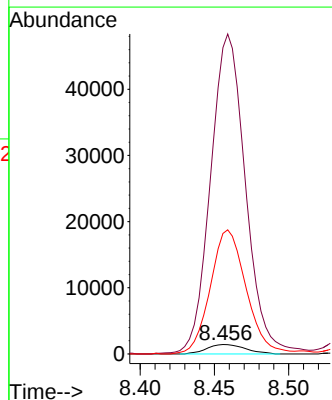
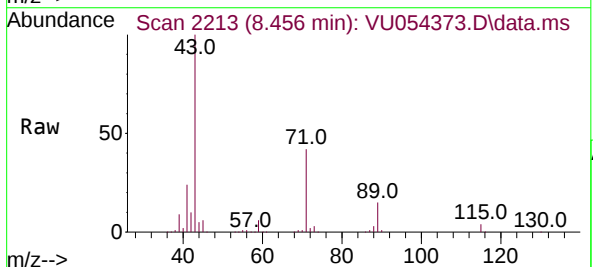
Instrument :
 MSVOA_U
 ClientSampleId :
 TP-15-0A

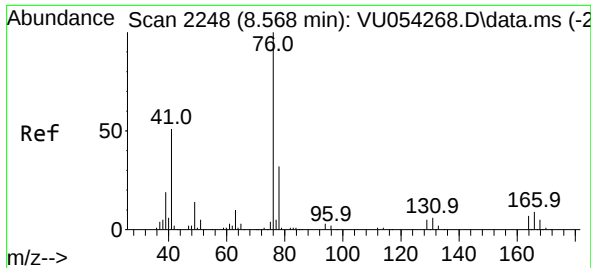
Tgt Ion: 75 Resp: 72327
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.7 38.5#
 39 25.2 33.0 49.6#



#56
 Ethyl methacrylate
 Concen: 0.500 ug/l
 RT: 8.456 min Scan# 2213
 Delta R.T. 0.129 min
 Lab File: VU054373.D
 Acq: 01 Jun 2023 05:38

Tgt Ion: 69 Resp: 2591
 Ion Ratio Lower Upper
 69 100
 41 3069.6 45.4 68.0#
 39 1216.2 25.7 38.5#





#57

1,3-Dichloropropane

Concen: 1.652 ug/l

RT: 8.719 min Scan# 21

Delta R.T. 0.151 min

Lab File: VU054373.D

Acq: 01 Jun 2023 05:38

Instrument :

MSVOA_U

ClientSampleId :

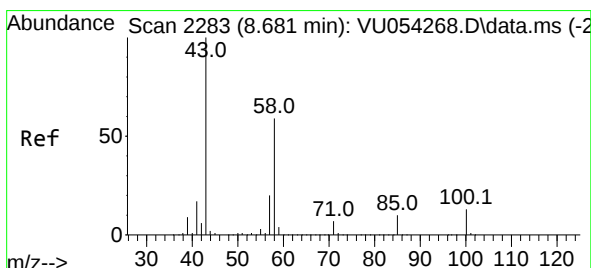
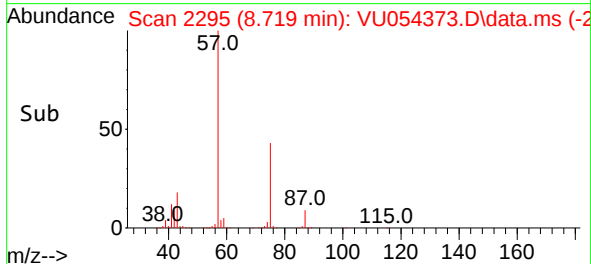
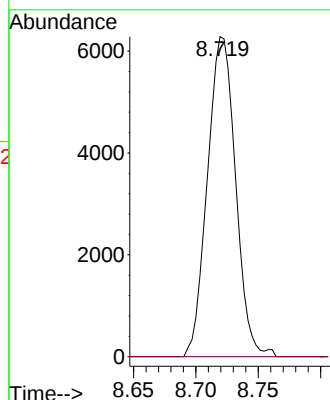
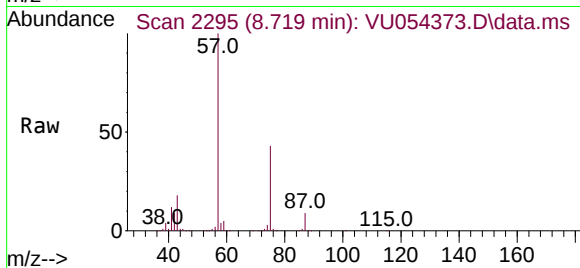
TP-15-0A

Tgt Ion: 76 Resp: 9904

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 29.432 ug/l

RT: 8.723 min Scan# 2296

Delta R.T. 0.042 min

Lab File: VU054373.D

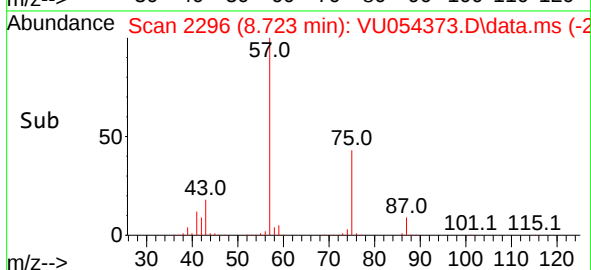
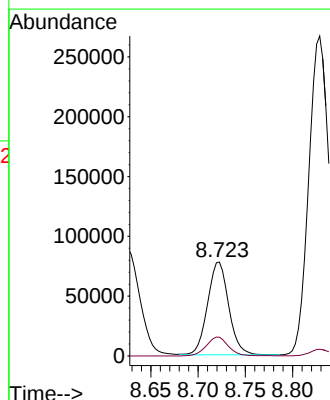
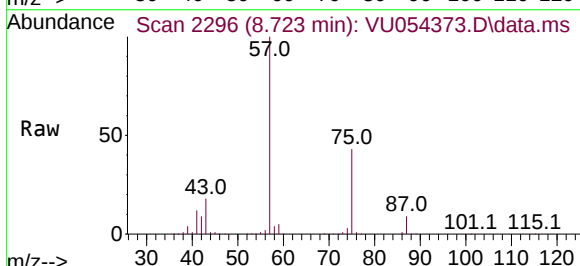
Acq: 01 Jun 2023 05:38

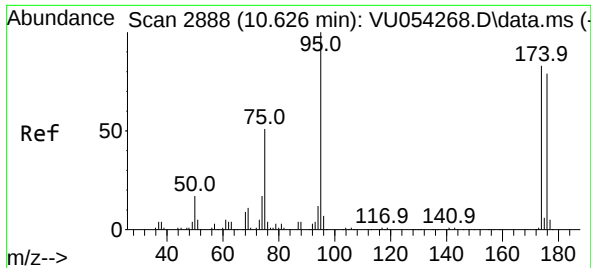
Tgt Ion: 43 Resp: 120429

Ion Ratio Lower Upper

43 100

58 21.6 30.3 90.8#

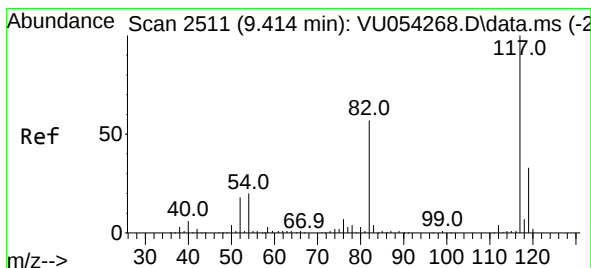
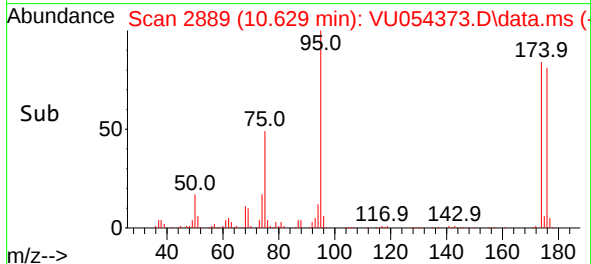
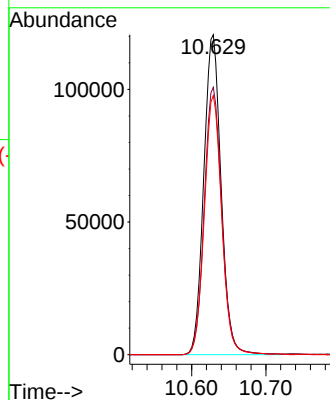
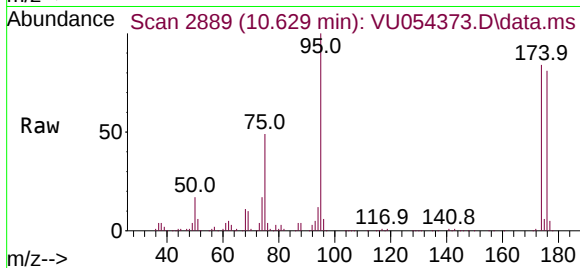




#62
4-Bromofluorobenzene
Concen: 44.987 ug/l
RT: 10.629 min Scan# 2110
Delta R.T. 0.003 min
Lab File: VU054373.D
Acq: 01 Jun 2023 05:38

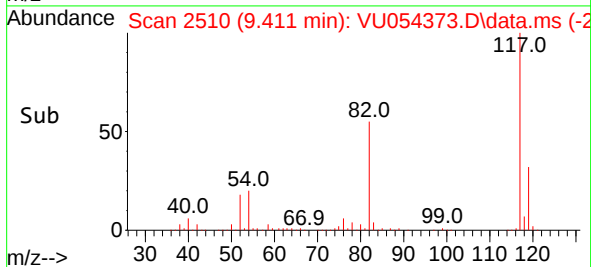
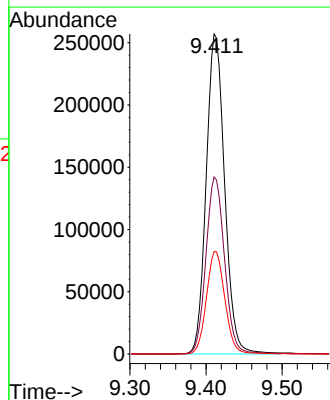
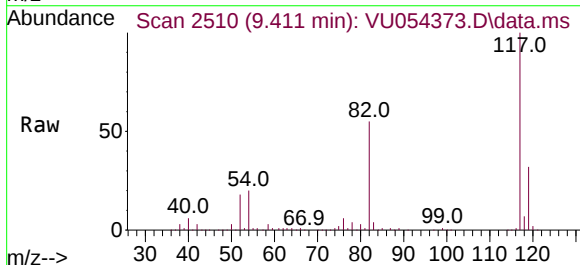
Instrument :
MSVOA_U
ClientSampleId :
TP-15-0A

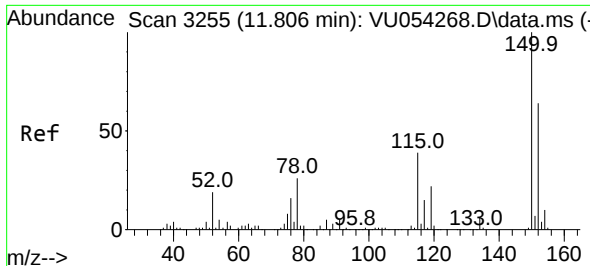
Tgt Ion: 95 Resp: 195043
Ion Ratio Lower Upper
95 100
174 84.9 0.0 182.0
176 81.2 0.0 177.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.411 min Scan# 2510
Delta R.T. -0.003 min
Lab File: VU054373.D
Acq: 01 Jun 2023 05:38

Tgt Ion: 117 Resp: 432669
Ion Ratio Lower Upper
117 100
82 55.2 41.7 62.5
119 32.0 25.7 38.5

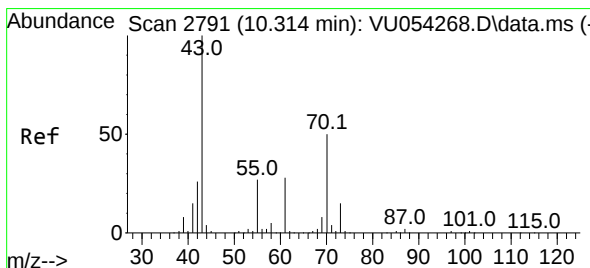
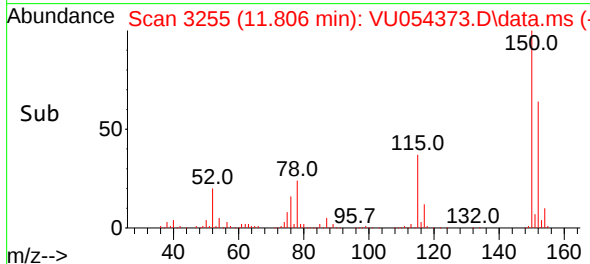
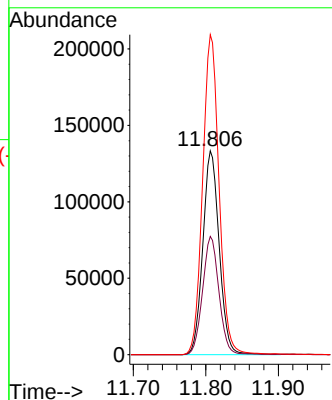
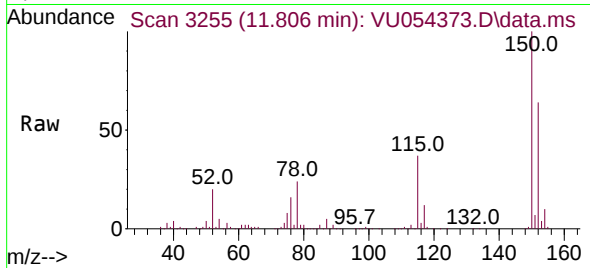




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.806 min Scan# 31
Delta R.T. 0.000 min
Lab File: VU054373.D
Acq: 01 Jun 2023 05:38

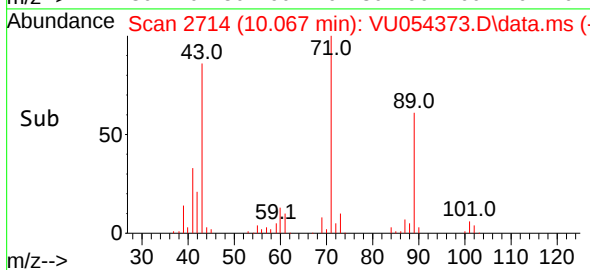
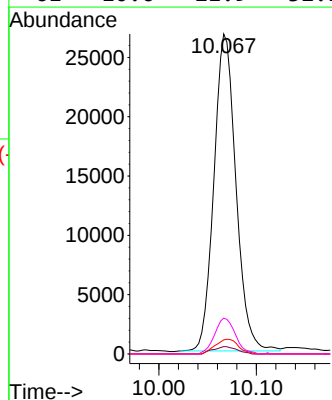
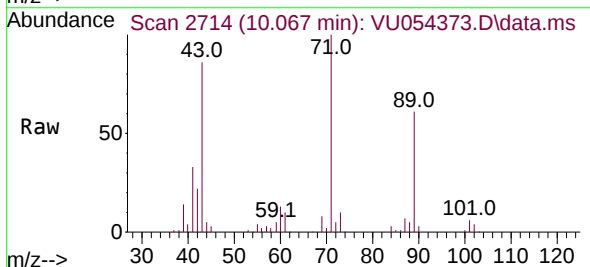
Instrument :
MSVOA_U
ClientSampleId :
TP-15-0A

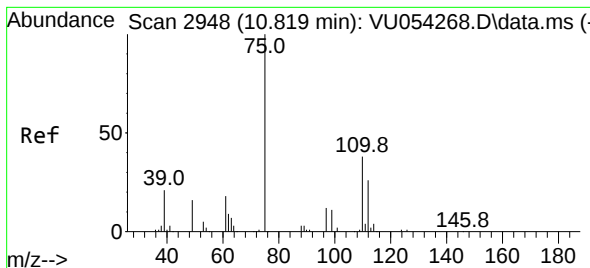
Tgt Ion:152 Resp: 209235
Ion Ratio Lower Upper
152 100
115 58.1 37.0 110.9
150 157.5 0.0 342.2



#74
N-ethyl acetate
Concen: 7.630 ug/l
RT: 10.067 min Scan# 2714
Delta R.T. -0.247 min
Lab File: VU054373.D
Acq: 01 Jun 2023 05:38

Tgt Ion: 43 Resp: 41982
Ion Ratio Lower Upper
43 100
70 2.5 38.7 58.1#
55 4.8 21.8 32.8#
61 10.6 21.9 32.9#





#76

1,2,3-Trichloropropane

Concen: 16.104 ug/l

RT: 10.626 min Scan# 2888

Delta R.T. -0.193 min

Lab File: VU054373.D

Acq: 01 Jun 2023 05:38

Instrument :

MSVOA_U

ClientSampleId :

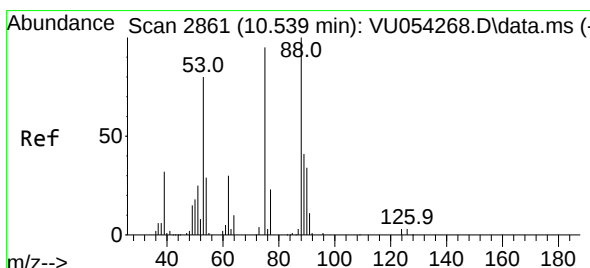
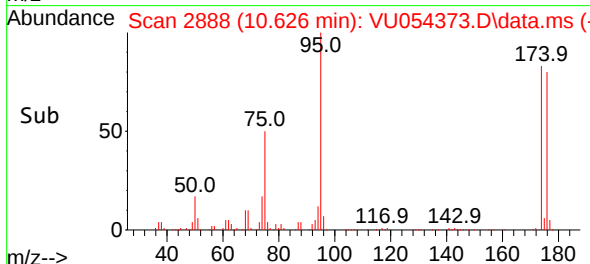
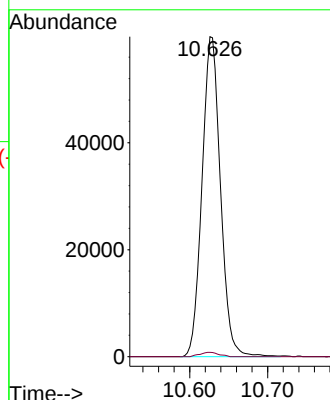
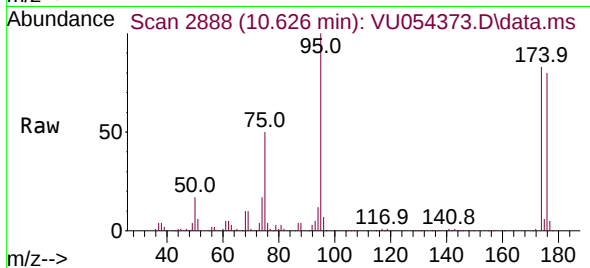
TP-15-0A

Tgt Ion: 75 Resp: 98343

Ion Ratio Lower Upper

75 100

77 1.4 15.8 47.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 61.323 ug/l

RT: 10.626 min Scan# 2888

Delta R.T. 0.087 min

Lab File: VU054373.D

Acq: 01 Jun 2023 05:38

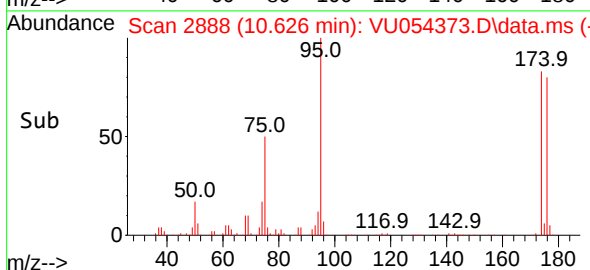
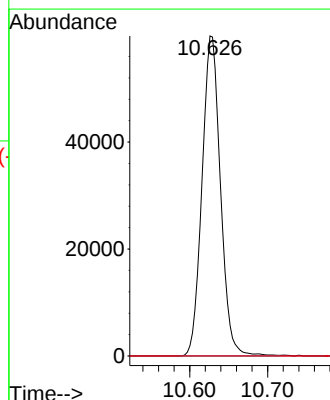
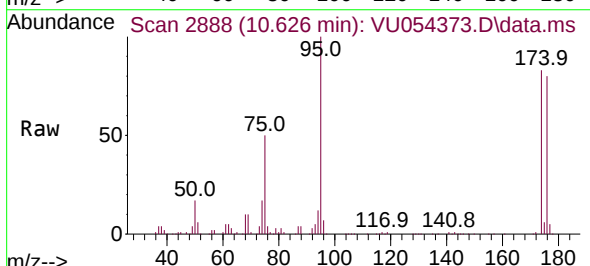
Tgt Ion: 75 Resp: 98343

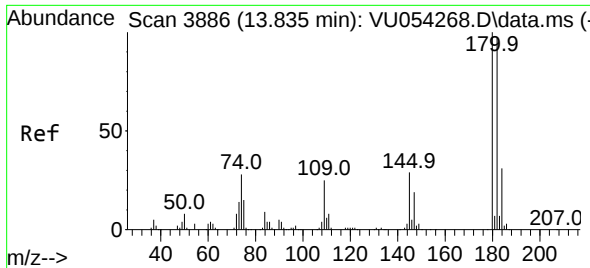
Ion Ratio Lower Upper

75 100

53 0.0 69.2 103.8#

89 0.0 37.0 55.6#

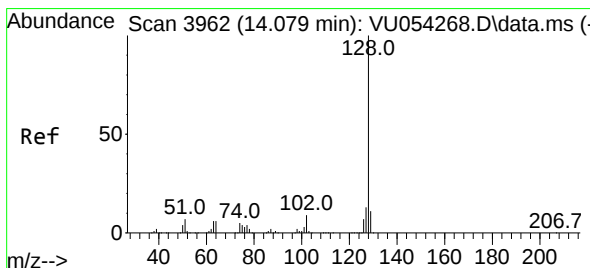
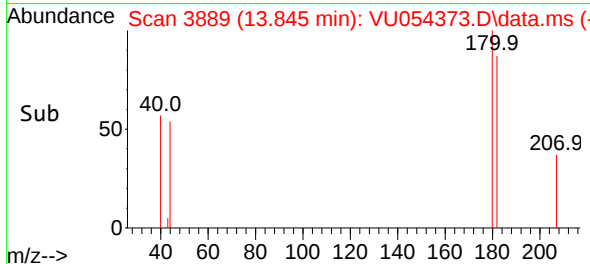
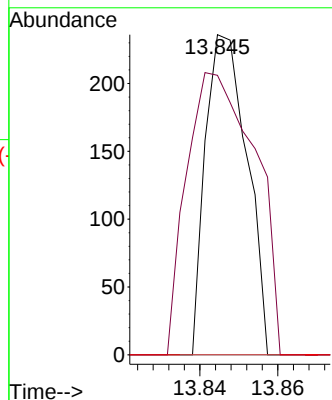
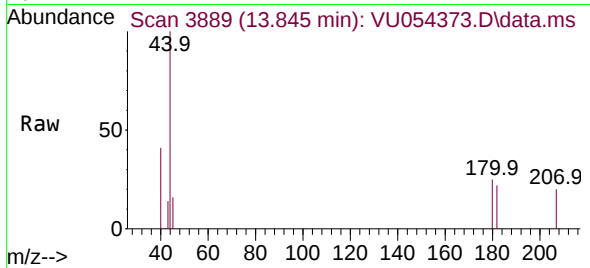




#93
 1,2,4-Trichlorobenzene
 Concen: 1.679 ug/l
 RT: 13.845 min Scan# 3889
 Delta R.T. 0.010 min
 Lab File: VU054373.D
 Acq: 01 Jun 2023 05:38

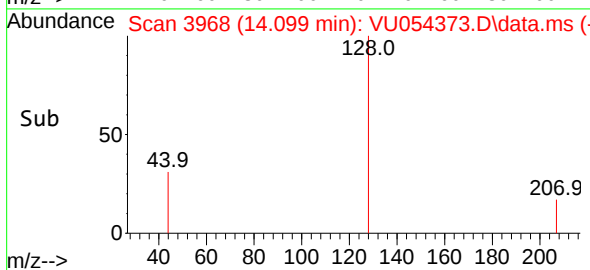
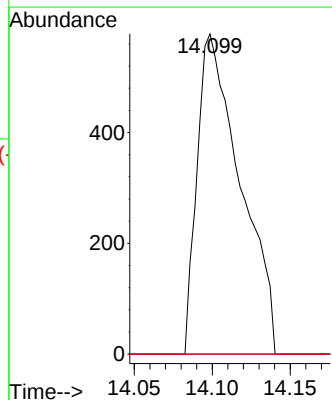
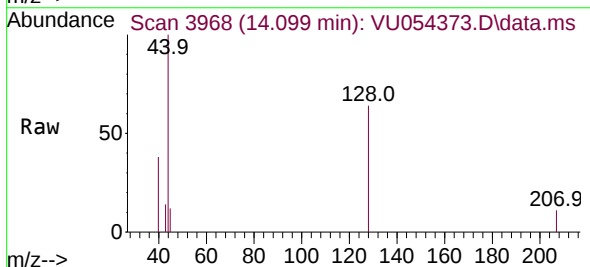
Instrument :
 MSVOA_U
 ClientSampleId :
 TP-15-0A

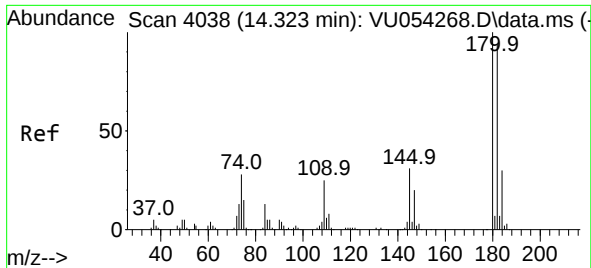
Tgt Ion:180 Resp: 175
 Ion Ratio Lower Upper
 180 100
 182 144.6 47.9 143.6#
 145 0.0 14.0 41.9#



#95
 Naphthalene
 Concen: 2.060 ug/l
 RT: 14.099 min Scan# 3968
 Delta R.T. 0.020 min
 Lab File: VU054373.D
 Acq: 01 Jun 2023 05:38

Tgt Ion:128 Resp: 1112
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.3 15.5#
 129 0.0 8.6 13.0#





#96
 1,2,3-Trichlorobenzene
 Concen: 1.292 ug/l
 RT: 14.330 min Scan# 4038
 Delta R.T. 0.007 min
 Lab File: VU054373.D
 Acq: 01 Jun 2023 05:38

Instrument :
 MSVOA_U
 ClientSampleId :
 TP-15-0A

Tgt Ion:180 Resp: 182
 Ion Ratio Lower Upper
 180 100
 182 58.8 48.4 145.0
 145 0.0 14.8 44.4#

