

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU082222\
 Data File : VU050400.D
 Acq On : 22 Aug 2022 15:00
 Operator : SY/MD
 Sample : M3734-10DL 5X
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 WS-OXYGENATESDL

Quant Time: Aug 23 08:27:38 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U081922DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Tue Aug 23 08:18:20 2022
 Response via : Initial Calibration

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

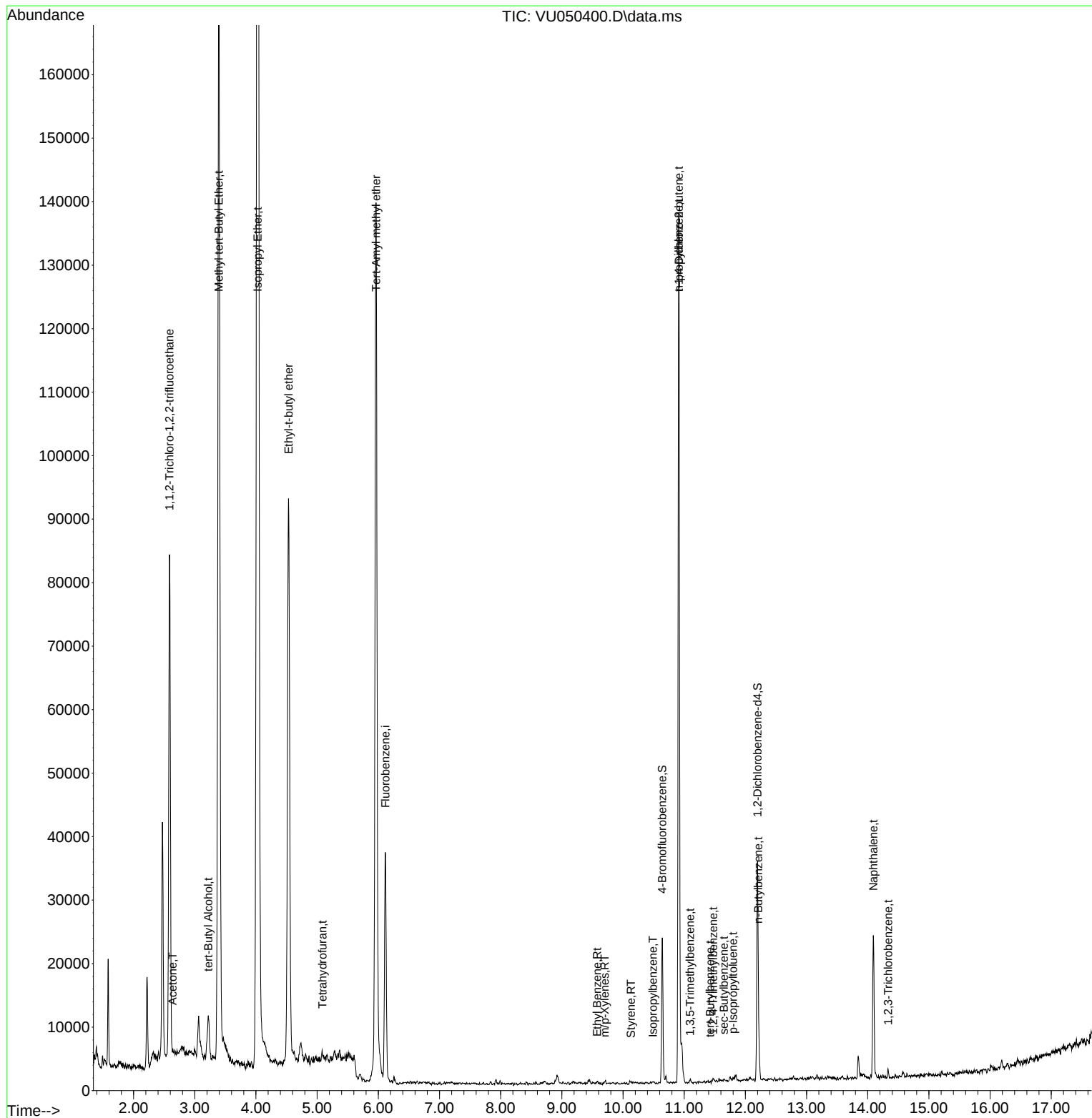
Internal Standards						
1) Fluorobenzene	6.115	96	34350	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.642	95	7613	0.651	ug/l	0.00
Spiked Amount 1.000			Recovery	=	65.000%	
68) 1,2-Dichlorobenzene-d4	12.198	152	10353	0.749	ug/l	0.00
Spiked Amount 1.000			Recovery	=	75.000%	
Target Compounds						
						Qvalue
8) 1,1,2-Trichloro-1,2,2-...	2.588	101	32851	3.183	ug/l	97
13) Acetone	2.639	43	641	0.302	ug/l	95
24) tert-Butyl Alcohol	3.221	59	8703	9.468	ug/l #	73
25) Methyl tert-Butyl Ether	3.395	73	195857	7.288	ug/l	95
31) Isopropyl Ether	4.028	45	324744	9.611	ug/l	97
32) Ethyl-t-butyl ether	4.533	59	89599	3.375	ug/l	97
33) Tert-Amyl methyl ether	5.964	73	105785	6.113	ug/l	97
41) Tetrahydrofuran	5.086	42	422	0.208	ug/l #	50
46) t-1,4-Dichloro-2-butene	10.912	75	699	0.709	ug/l #	1
63) Ethyl Benzene	9.578	91	260	0.575	ug/l #	44
64) m/p-Xylenes	9.700	106	203	1.094	ug/l	86
66) Styrene	10.131	104	178	0.606	ug/l #	33
69) Isopropylbenzene	10.488	105	220	0.574	ug/l #	50
73) n-propylbenzene	10.912	120	22200	2.131	ug/l	98
75) 1,3,5-Trimethylbenzene	11.095	105	331	0.531	ug/l #	30
77) tert-Butylbenzene	11.423	119	61	0.495	ug/l #	29
78) 1,2,4-Trimethylbenzene	11.475	105	396	0.574	ug/l #	33
79) sec-Butylbenzene	11.648	105	206	0.552	ug/l #	58
81) p-Isopropyltoluene	11.800	119	302	0.611	ug/l #	64
84) n-Butylbenzene	12.211	91	755	0.604	ug/l #	70
89) Naphthalene	14.092	128	19721	1.497	ug/l	99
90) 1,2,3-Trichlorobenzene	14.333	180	604	0.529	ug/l #	75

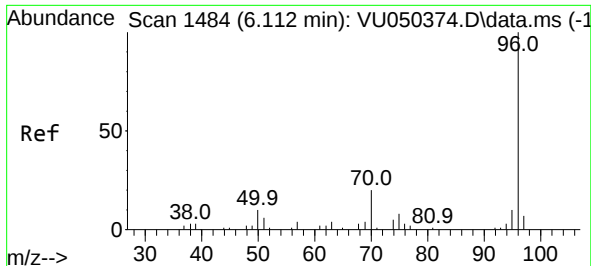
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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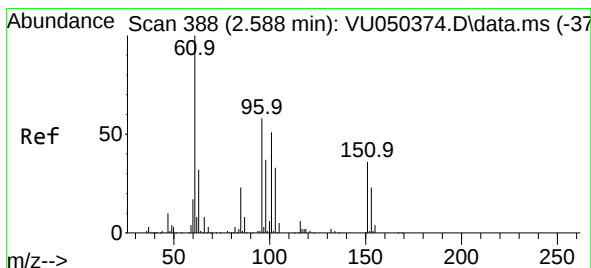
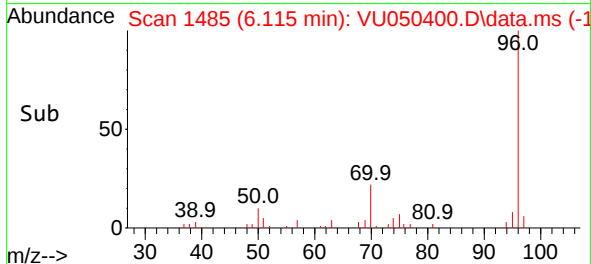
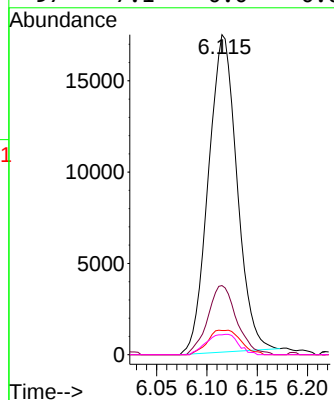
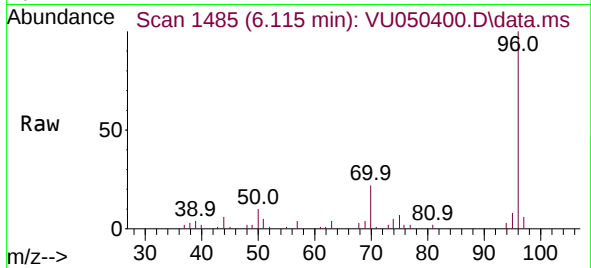




#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.115 min Scan# 1485
Delta R.T. -0.000 min
Lab File: VU050400.D
Acq: 22 Aug 2022 15:00

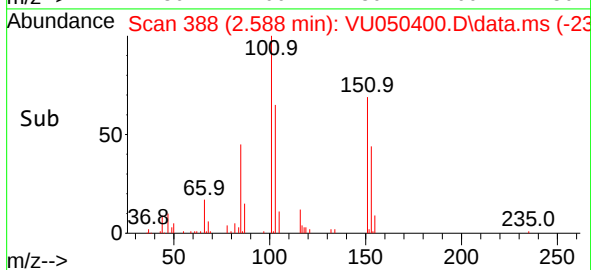
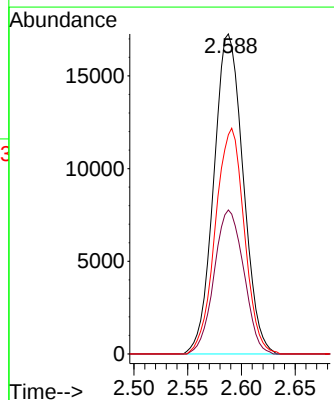
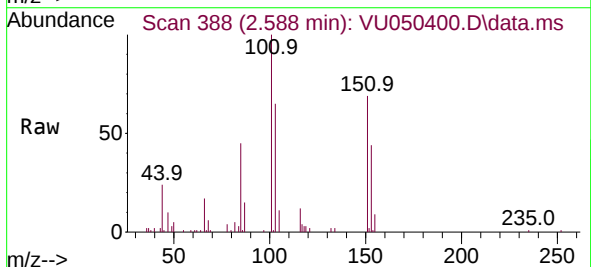
Instrument :
MSVOA_U
ClientSampleId :
WS-OXYGENATESDL

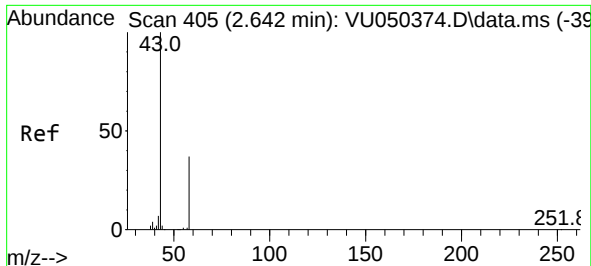
Tgt Ion:	96	Resp:	34350
Ion	Ratio	Lower	Upper
96	100		
70	22.0	16.7	25.1
95	8.9	7.4	11.0
97	7.1	0.0	0.0



#8
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 3.183 ug/l
RT: 2.588 min Scan# 388
Delta R.T. 0.007 min
Lab File: VU050400.D
Acq: 22 Aug 2022 15:00

Tgt Ion:	101	Resp:	32851
Ion	Ratio	Lower	Upper
101	100		
85	45.3	36.4	54.6
151	69.6	59.1	88.7

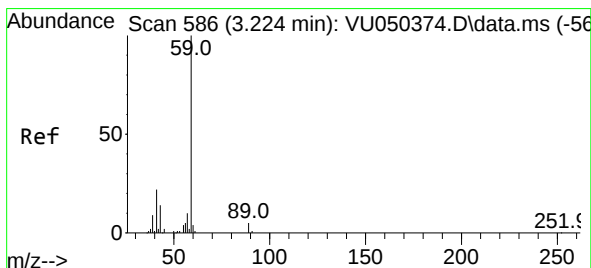
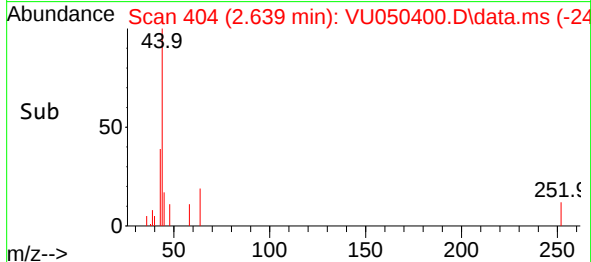
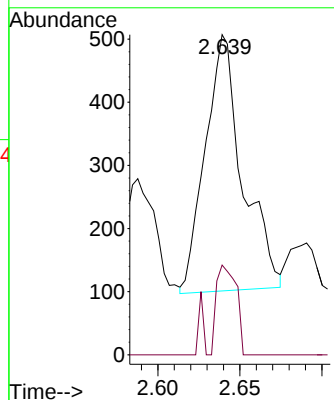
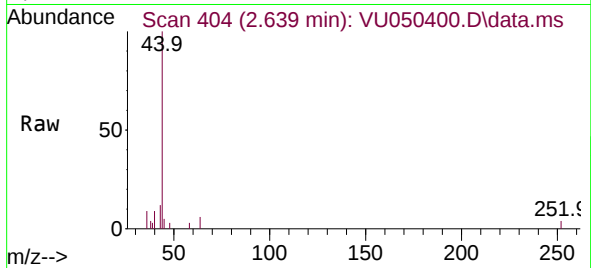




#13
Acetone
Concen: 0.302 ug/l
RT: 2.639 min Scan# 405
Delta R.T. 0.013 min
Lab File: VU050400.D
Acq: 22 Aug 2022 15:00

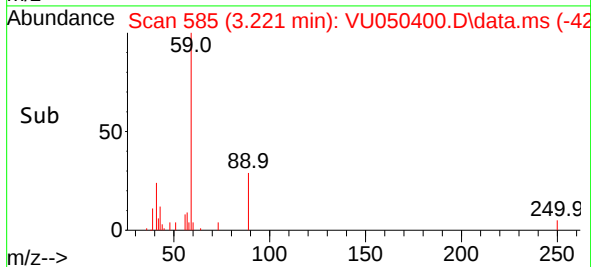
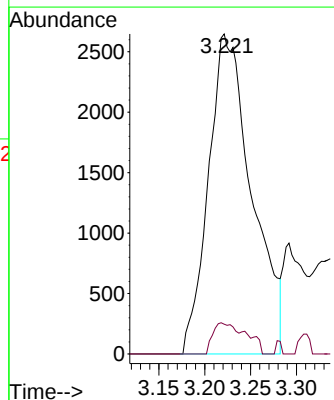
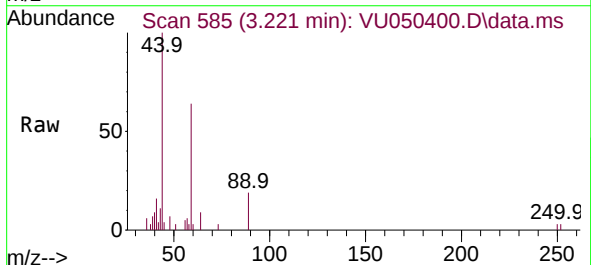
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MSVOA_U
ClientSampleId :
WS-OXYGENATESDL

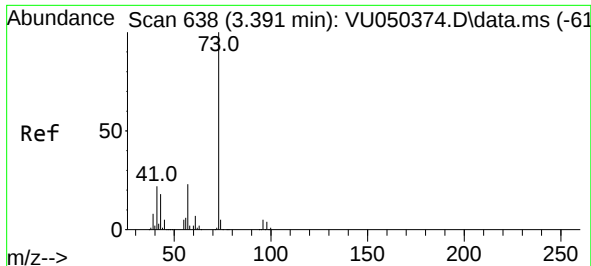
Tgt Ion: 43 Resp: 641
Ion Ratio Lower Upper
43 100
58 35.5 26.2 39.2



#24
tert-Butyl Alcohol
Concen: 9.468 ug/l
RT: 3.221 min Scan# 585
Delta R.T. 0.026 min
Lab File: VU050400.D
Acq: 22 Aug 2022 15:00

Tgt Ion: 59 Resp: 8703
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#

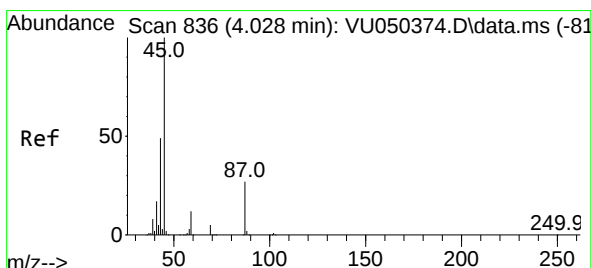
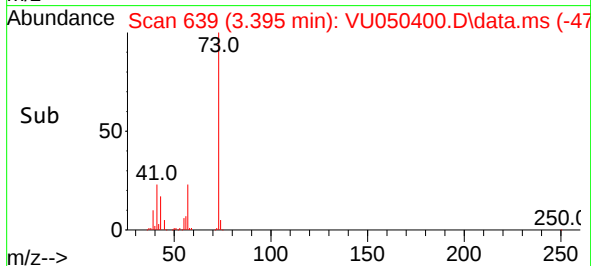
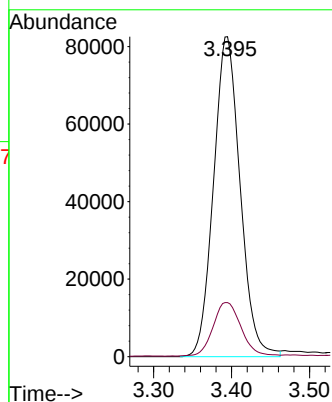
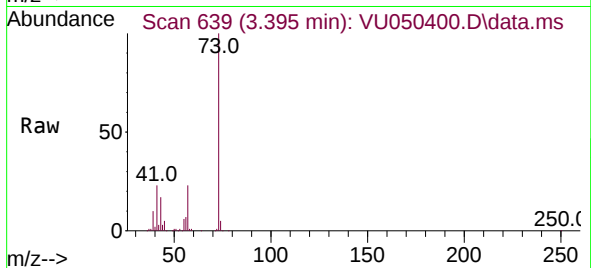




#25
Methyl tert-Butyl Ether
Concen: 7.288 ug/l
RT: 3.395 min Scan# 61
Delta R.T. 0.026 min
Lab File: VU050400.D
Acq: 22 Aug 2022 15:00

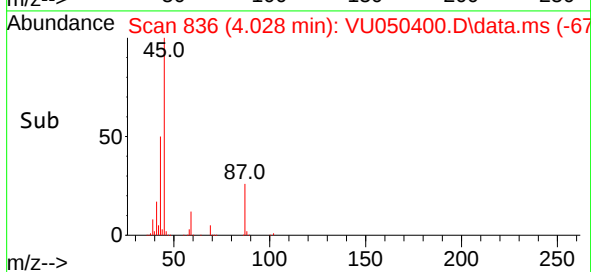
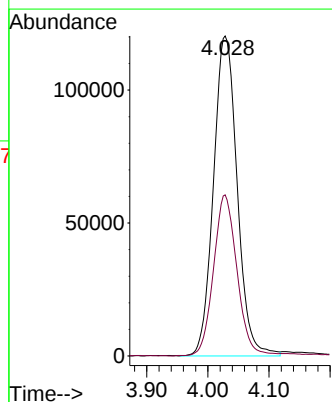
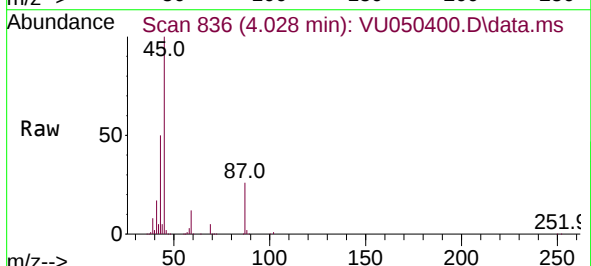
Instrument :
MSVOA_U
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WS-OXYGENATESDL

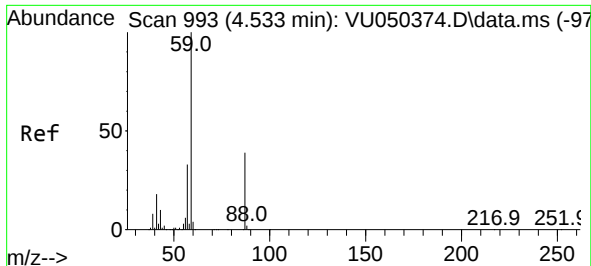
Tgt Ion: 73 Resp: 195857
Ion Ratio Lower Upper
73 100
43 17.6 15.9 23.9



#31
Isopropyl Ether
Concen: 9.611 ug/l
RT: 4.028 min Scan# 836
Delta R.T. 0.026 min
Lab File: VU050400.D
Acq: 22 Aug 2022 15:00

Tgt Ion: 45 Resp: 324744
Ion Ratio Lower Upper
45 100
43 49.3 23.8 71.2

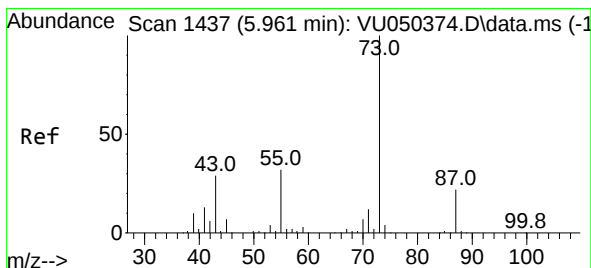
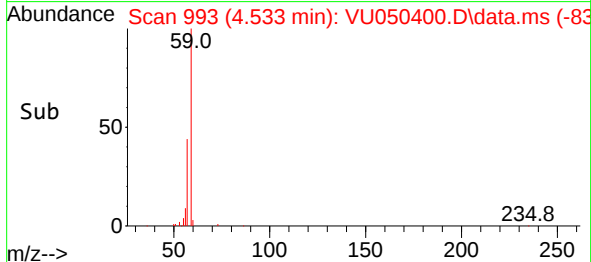
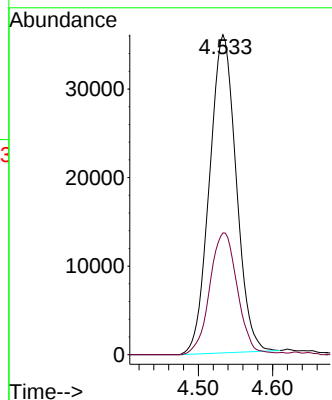
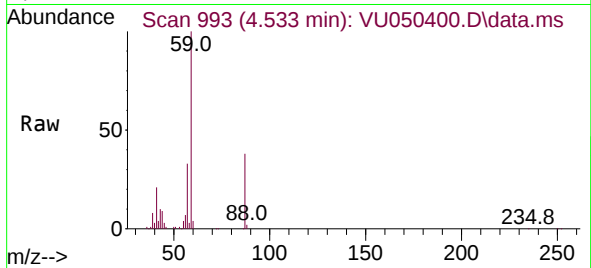




#32
Ethyl-t-butyl ether
Concen: 3.375 ug/l
RT: 4.533 min Scan# 993
Delta R.T. 0.019 min
Lab File: VU050400.D
Acq: 22 Aug 2022 15:00

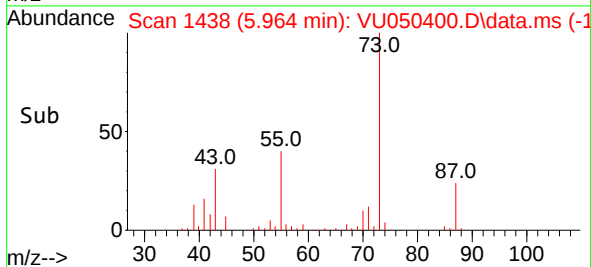
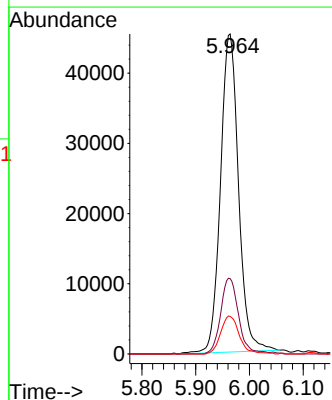
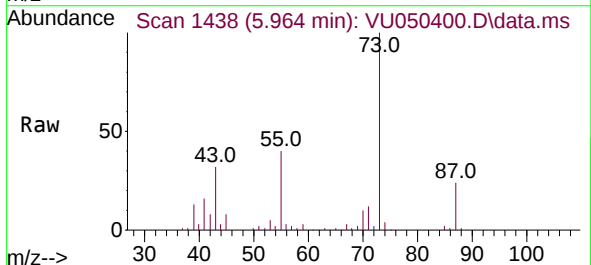
Instrument :
MSVOA_U
ClientSampleId :
WS-OXYGENATESDL

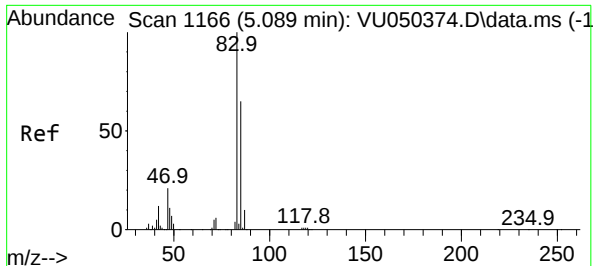
Tgt Ion: 59 Resp: 89599
Ion Ratio Lower Upper
59 100
87 39.0 32.5 48.7



#33
Tert-Amyl methyl ether
Concen: 6.113 ug/l
RT: 5.964 min Scan# 1438
Delta R.T. 0.016 min
Lab File: VU050400.D
Acq: 22 Aug 2022 15:00

Tgt Ion: 73 Resp: 105785
Ion Ratio Lower Upper
73 100
87 22.8 19.7 29.5
71 12.3 9.0 13.4





#41

Tetrahydrofuran

Concen: 0.208 ug/l

RT: 5.086 min Scan# 1165

Delta R.T. 0.019 min

Lab File: VU050400.D

Acq: 22 Aug 2022 15:00

Instrument :

MSVOA_U

ClientSampleId :

WS-OXYGENATESDL

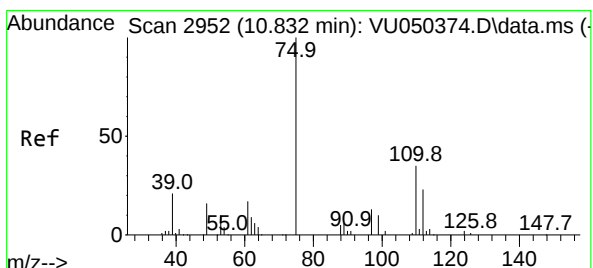
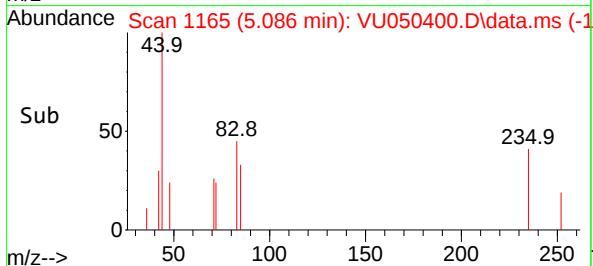
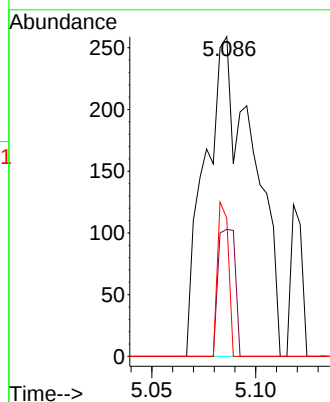
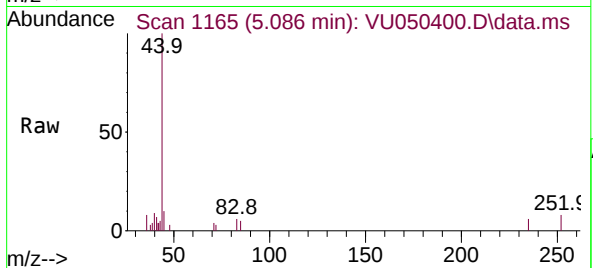
Tgt Ion: 42 Resp: 422

Ion Ratio Lower Upper

42 100

72 14.0 38.9 58.3#

71 10.9 33.7 50.5#



#46

t-1,4-Dichloro-2-butene

Concen: 0.709 ug/l

RT: 10.912 min Scan# 2977

Delta R.T. 0.081 min

Lab File: VU050400.D

Acq: 22 Aug 2022 15:00

Tgt Ion: 75 Resp: 699

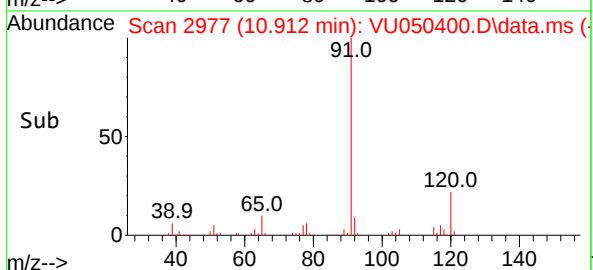
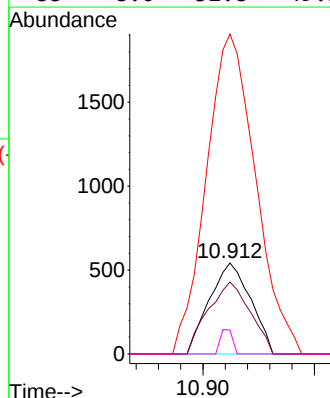
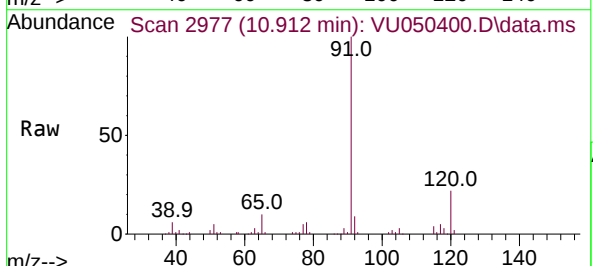
Ion Ratio Lower Upper

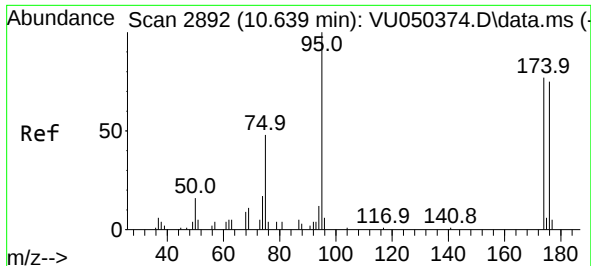
75 100

53 80.4 64.4 96.6

89 419.2 44.2 66.2#

88 8.0 32.8 49.2#





#57

4-Bromofluorobenzene

Concen: 0.651 ug/l

RT: 10.642 min Scan# 2893

Delta R.T. 0.010 min

Lab File: VU050400.D

Acq: 22 Aug 2022 15:00

Instrument :

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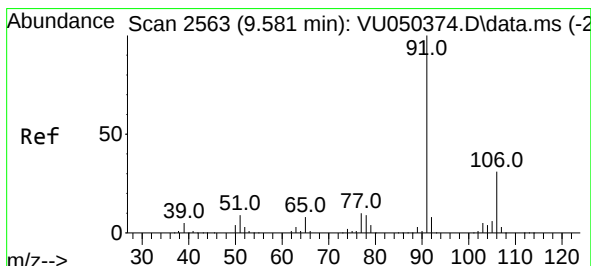
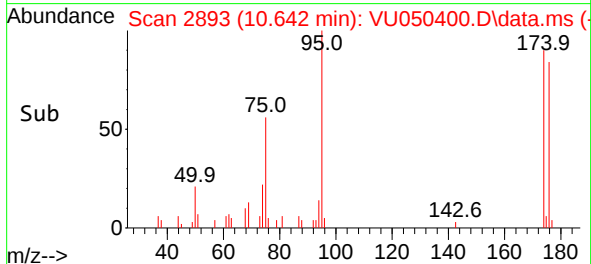
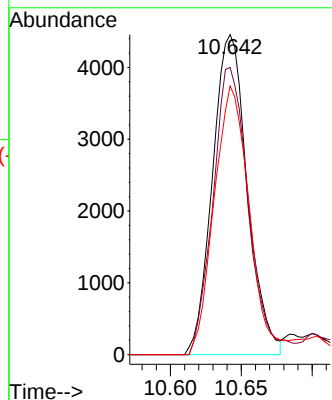
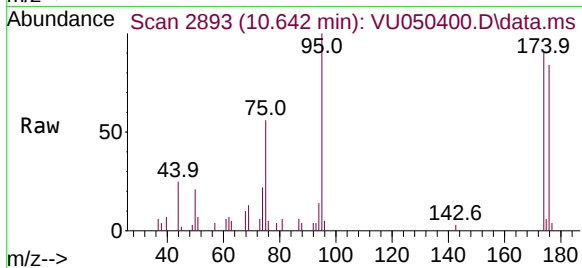
Tgt Ion: 95 Resp: 7613

Ion Ratio Lower Upper

95 100

174 91.1 62.4 93.6

176 84.4 56.2 84.2#



#63

Ethyl Benzene

Concen: 0.575 ug/l

RT: 9.578 min Scan# 2562

Delta R.T. 0.007 min

Lab File: VU050400.D

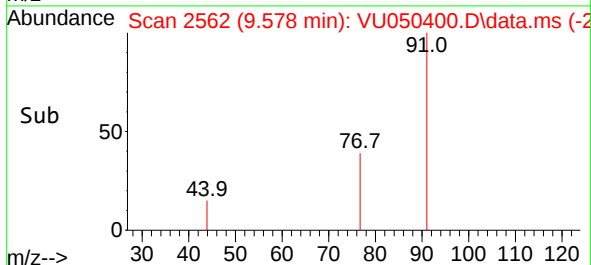
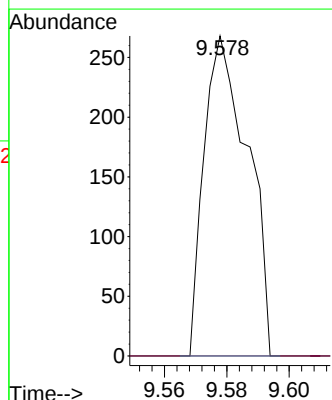
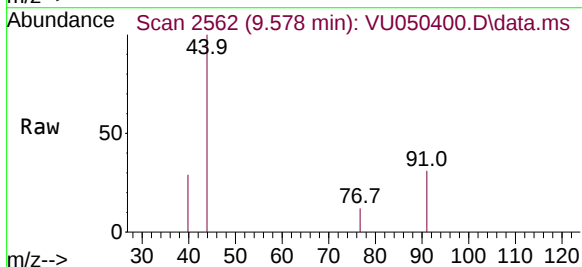
Acq: 22 Aug 2022 15:00

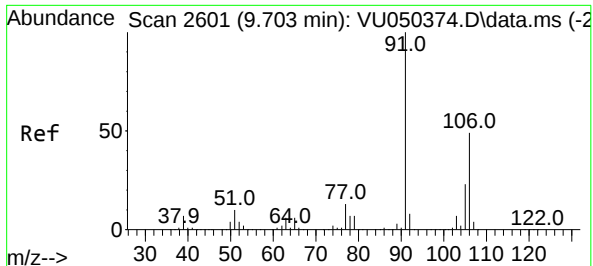
Tgt Ion: 91 Resp: 260

Ion Ratio Lower Upper

91 100

106 0.0 24.4 36.6#

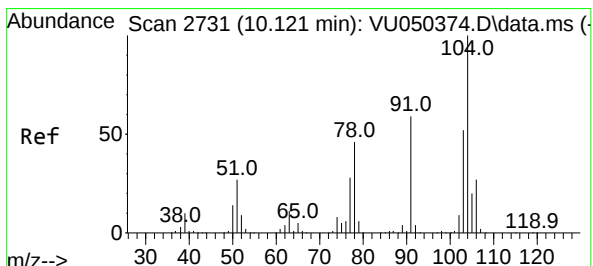
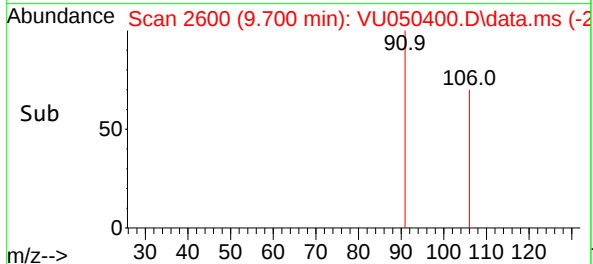
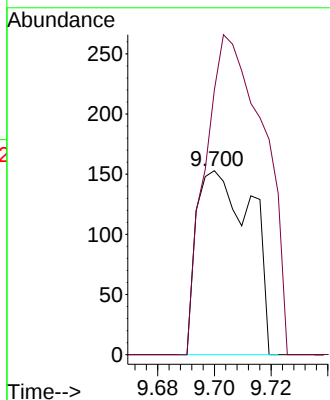
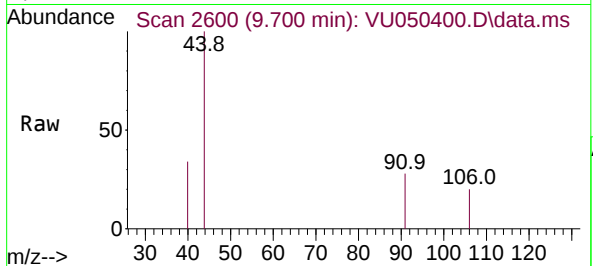




#64
m/p-Xylenes
Concen: 1.094 ug/l
RT: 9.700 min Scan# 20
Delta R.T. 0.007 min
Lab File: VU050400.D
Acq: 22 Aug 2022 15:00

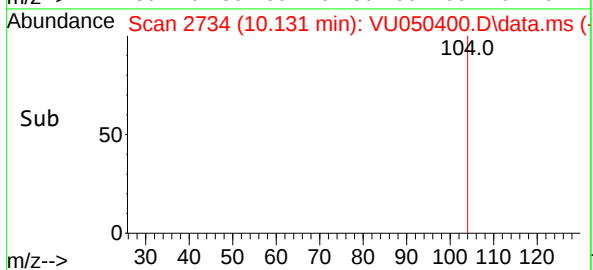
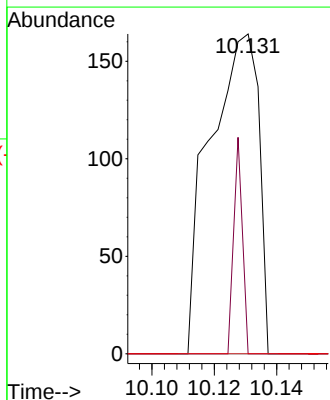
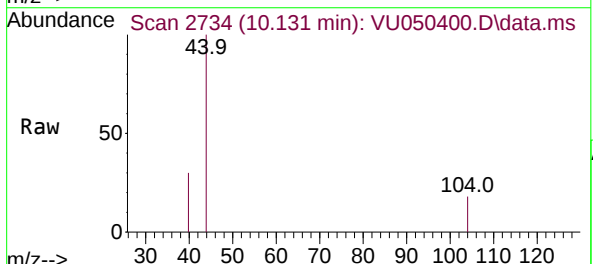
Instrument :
MSVOA_U
ClientSampleId :
WS-OXYGENATESDL

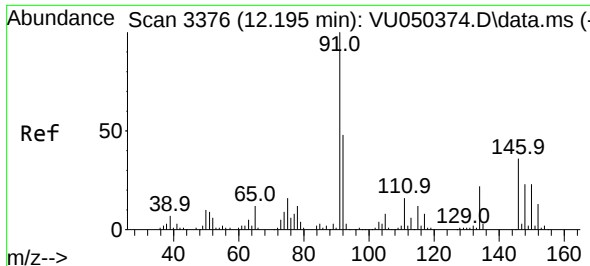
Tgt Ion:106 Resp: 203
Ion Ratio Lower Upper
106 100
91 187.2 167.8 251.6



#66
Styrene
Concen: 0.606 ug/l
RT: 10.131 min Scan# 2734
Delta R.T. 0.016 min
Lab File: VU050400.D
Acq: 22 Aug 2022 15:00

Tgt Ion:104 Resp: 178
Ion Ratio Lower Upper
104 100
78 11.8 42.1 63.1#
103 0.0 44.5 66.7#

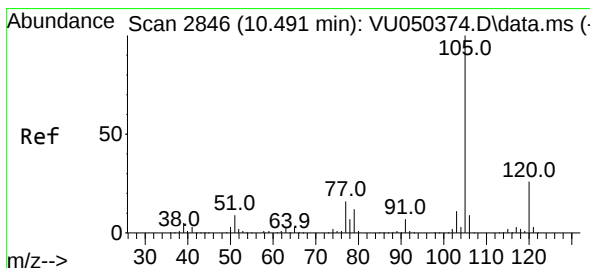
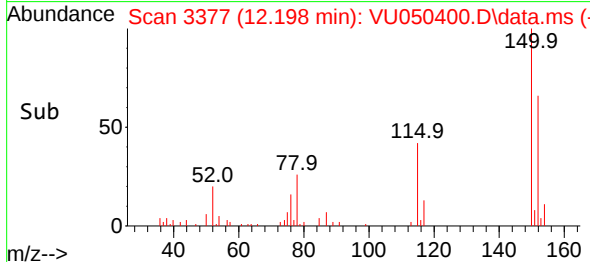
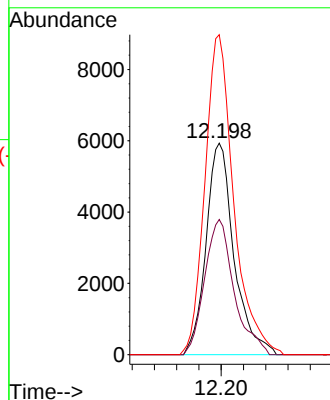
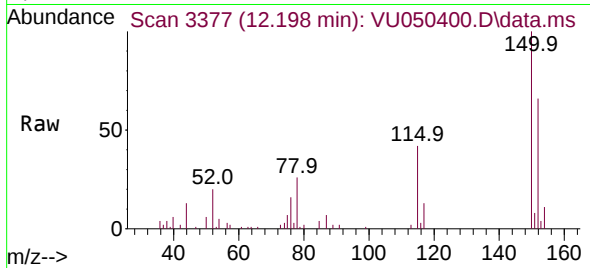




#68
1,2-Dichlorobenzene-d4
Concen: 0.749 ug/l
RT: 12.198 min Scan# 31
Delta R.T. 0.003 min
Lab File: VU050400.D
Acq: 22 Aug 2022 15:00

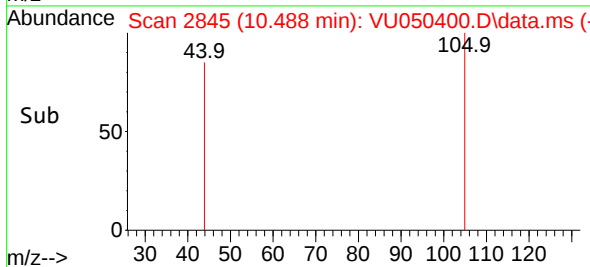
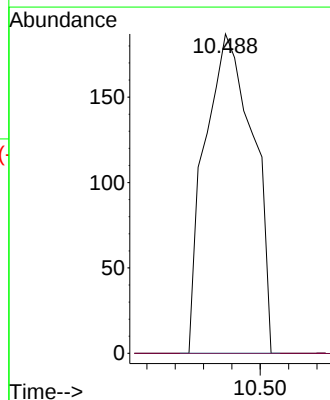
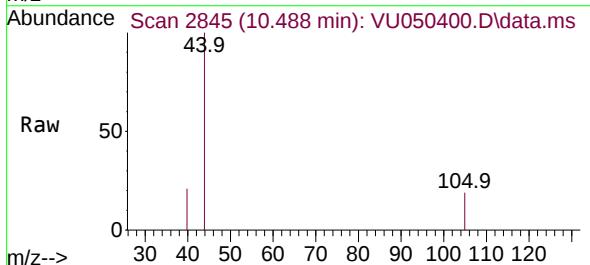
Instrument :
MSVOA_U
ClientSampleId :
WS-OXYGENATESDL

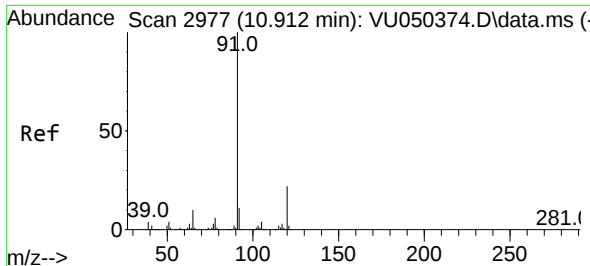
Tgt Ion:152 Resp: 10353
Ion Ratio Lower Upper
152 100
115 67.2 0.0 254.6
150 155.7 0.0 623.6



#69
Isopropylbenzene
Concen: 0.574 ug/l
RT: 10.488 min Scan# 2845
Delta R.T. 0.003 min
Lab File: VU050400.D
Acq: 22 Aug 2022 15:00

Tgt Ion:105 Resp: 220
Ion Ratio Lower Upper
105 100
120 0.0 12.6 37.8#

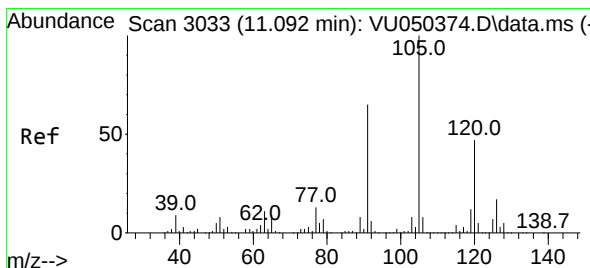
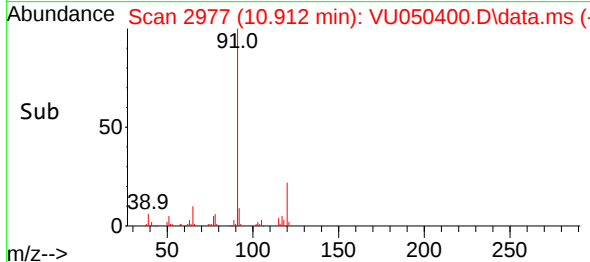
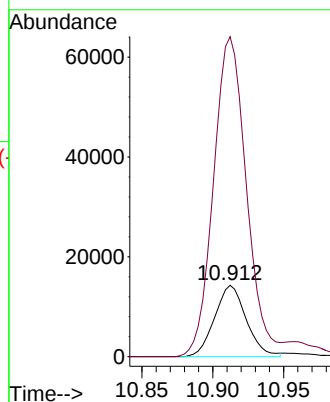
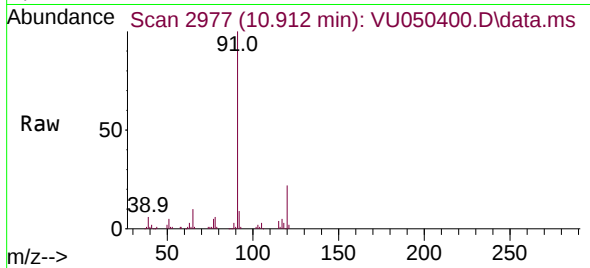




#73
n-propylbenzene
Concen: 2.131 ug/l
RT: 10.912 min Scan# 2977
Delta R.T. 0.007 min
Lab File: VU050400.D
Acq: 22 Aug 2022 15:00

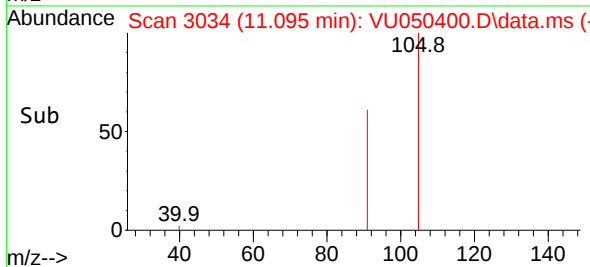
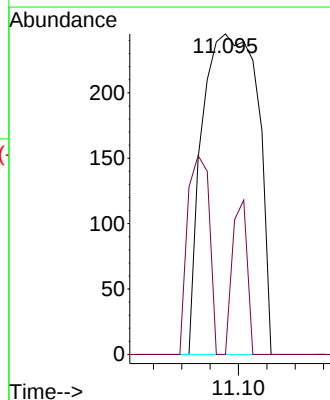
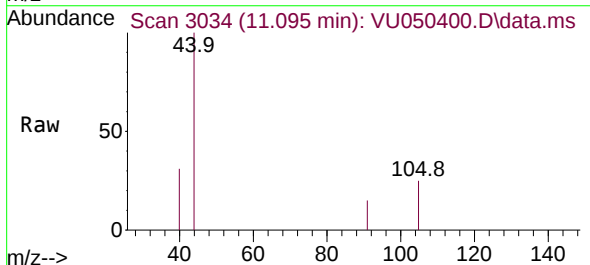
Instrument :
MSVOA_U
ClientSampleId :
WS-OXYGENATESDL

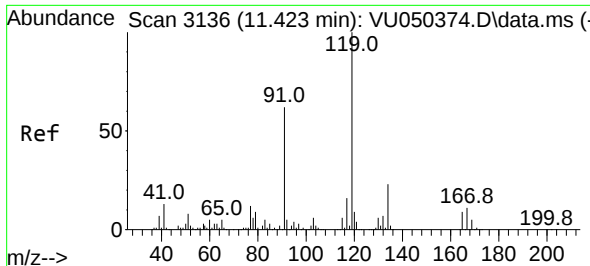
Tgt Ion:120 Resp: 22200
Ion Ratio Lower Upper
120 100
91 465.8 367.8 551.6



#75
1,3,5-Trimethylbenzene
Concen: 0.531 ug/l
RT: 11.095 min Scan# 3034
Delta R.T. 0.007 min
Lab File: VU050400.D
Acq: 22 Aug 2022 15:00

Tgt Ion:105 Resp: 331
Ion Ratio Lower Upper
105 100
120 0.0 37.6 56.4#

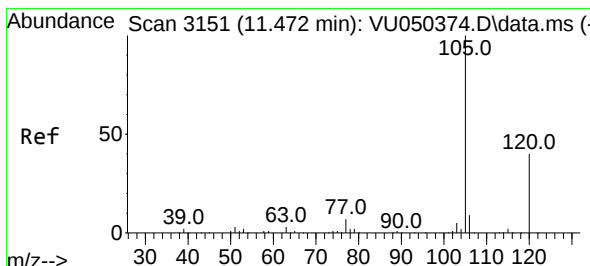
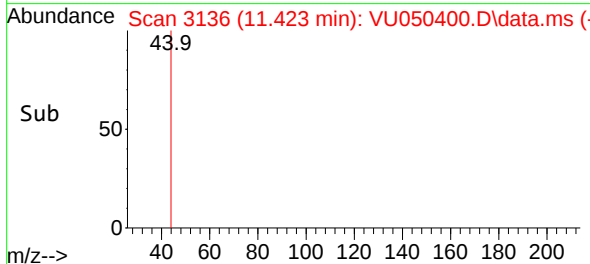
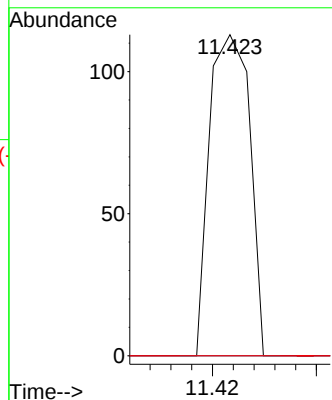
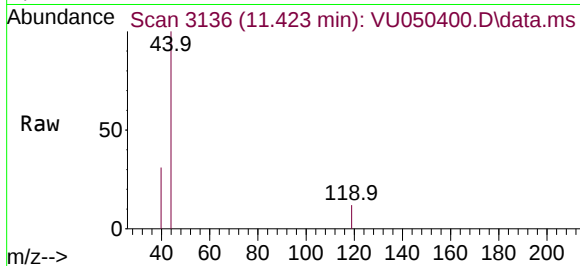




#77
 tert-Butylbenzene
 Concen: 0.495 ug/l
 RT: 11.423 min Scan# 3136
 Delta R.T. 0.003 min
 Lab File: VU050400.D
 Acq: 22 Aug 2022 15:00

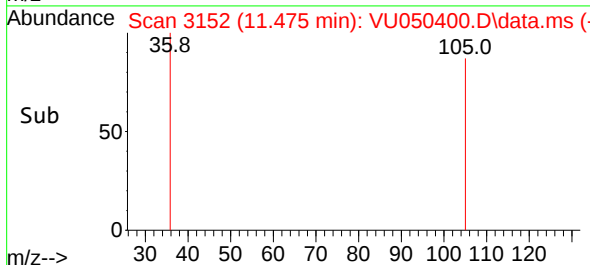
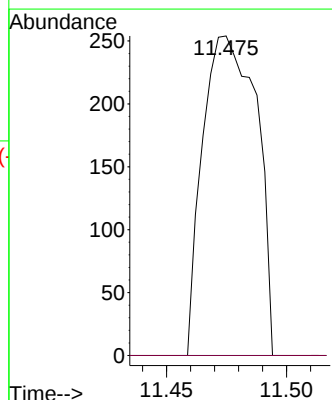
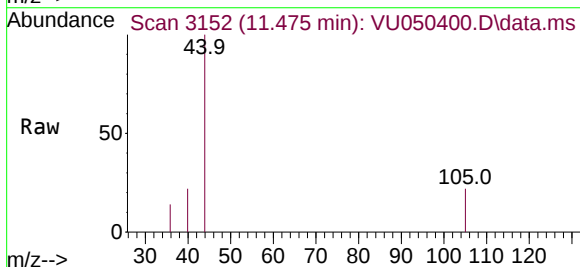
Instrument :
 MSVOA_U
 ClientSampleId :
 WS-OXYGENATESDL

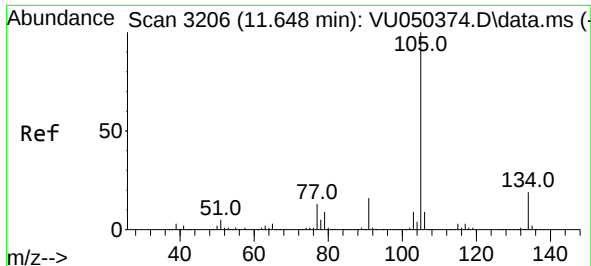
Tgt Ion	Ratio	Lower	Upper
119	100		
91	0.0	30.4	91.3#
134	0.0	17.8	26.6#



#78
 1,2,4-Trimethylbenzene
 Concen: 0.574 ug/l
 RT: 11.475 min Scan# 3152
 Delta R.T. 0.007 min
 Lab File: VU050400.D
 Acq: 22 Aug 2022 15:00

Tgt Ion	Ratio	Lower	Upper
105	100		
120	0.0	21.6	65.0#

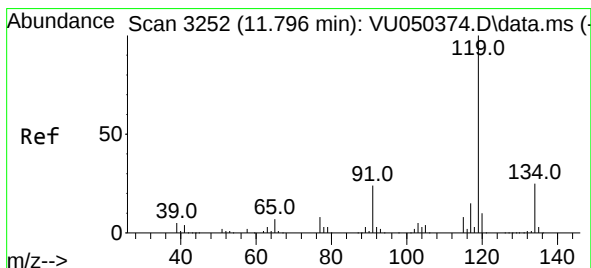
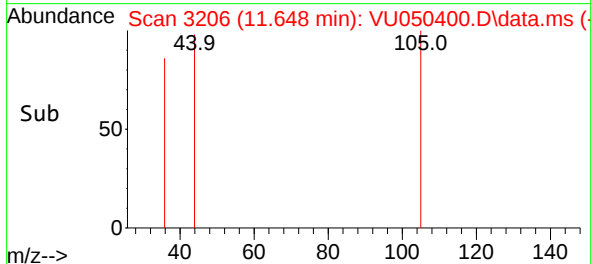
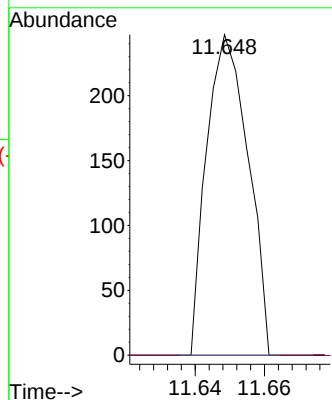
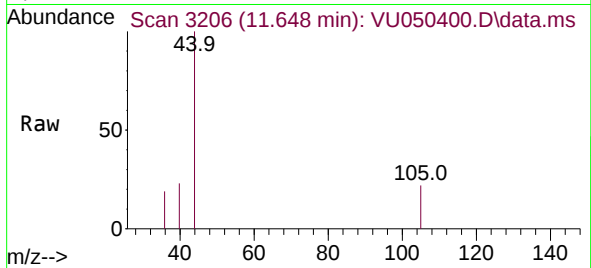




#79
 sec-Butylbenzene
 Concen: 0.552 ug/l
 RT: 11.648 min Scan# 31
 Delta R.T. 0.003 min
 Lab File: VU050400.D
 Acq: 22 Aug 2022 15:00

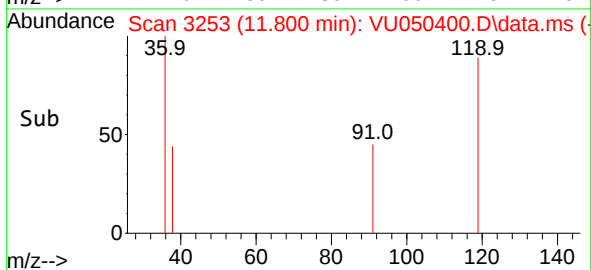
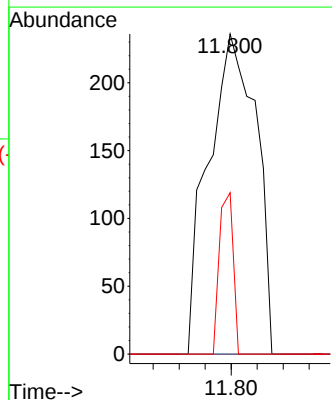
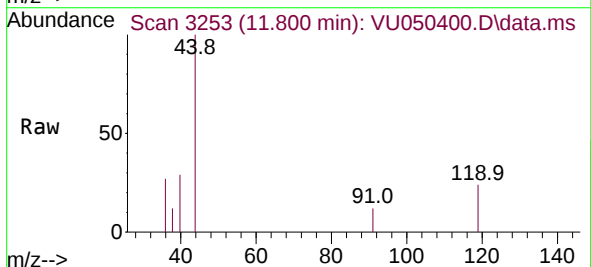
Instrument :
 MSVOA_U
 ClientSampleId :
 WS-OXYGENATESDL

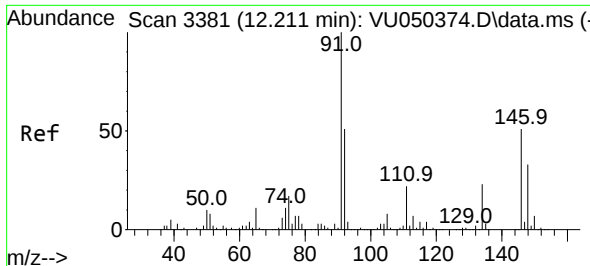
Tgt Ion:105 Resp: 206
 Ion Ratio Lower Upper
 105 100
 134 0.0 15.4 23.0#



#81
 p-Isopropyltoluene
 Concen: 0.611 ug/l
 RT: 11.800 min Scan# 3253
 Delta R.T. 0.007 min
 Lab File: VU050400.D
 Acq: 22 Aug 2022 15:00

Tgt Ion:119 Resp: 302
 Ion Ratio Lower Upper
 119 100
 134 0.0 20.5 30.7#
 91 14.6 19.8 29.6#

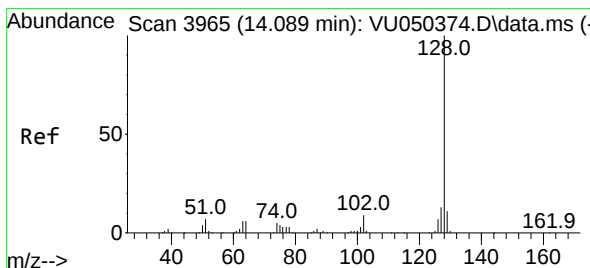
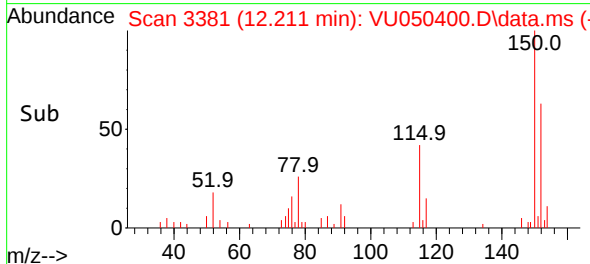
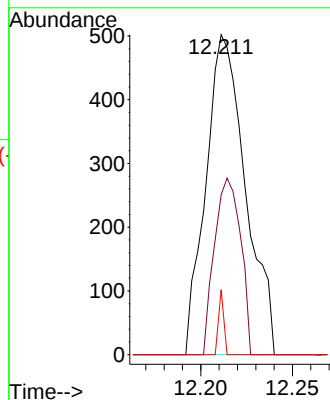
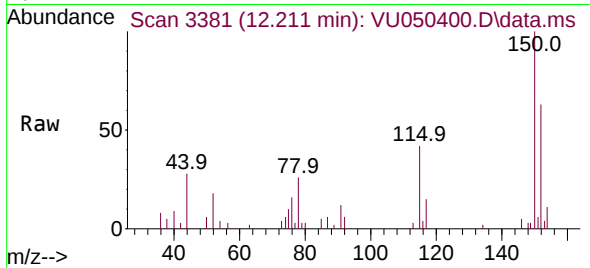




#84
n-Butylbenzene
Concen: 0.604 ug/l
RT: 12.211 min Scan# 3381
Delta R.T. 0.000 min
Lab File: VU050400.D
Acq: 22 Aug 2022 15:00

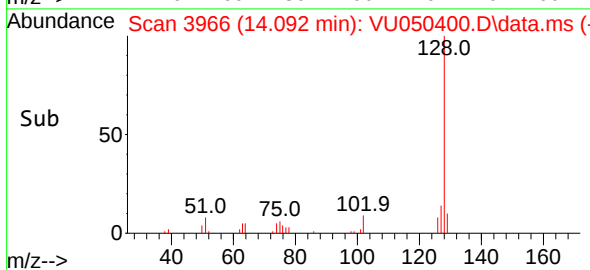
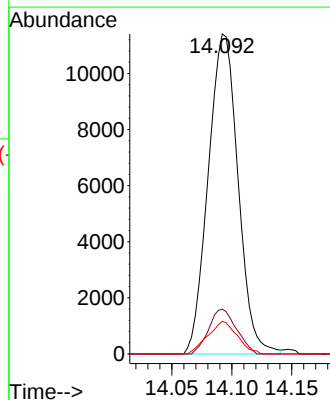
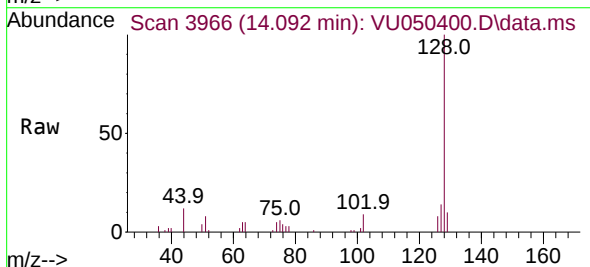
Instrument :
MSVOA_U
ClientSampleId :
WS-OXYGENATESDL

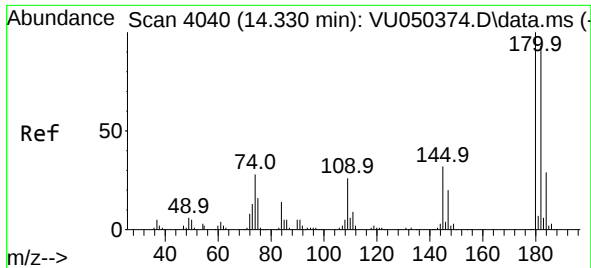
Tgt Ion: 91	Resp:	755
Ion Ratio	Lower	Upper
91	100	
92	36.2	42.3 63.5#
134	2.6	19.6 29.4#



#89
Naphthalene
Concen: 1.497 ug/l
RT: 14.092 min Scan# 3966
Delta R.T. 0.003 min
Lab File: VU050400.D
Acq: 22 Aug 2022 15:00

Tgt Ion: 128	Resp:	19721
Ion Ratio	Lower	Upper
128	100	
127	13.0	10.1 15.1
129	10.0	8.6 12.8





#90

1,2,3-Trichlorobenzene

Concen: 0.529 ug/l

RT: 14.333 min Scan# 4041

Delta R.T. 0.003 min

Lab File: VU050400.D

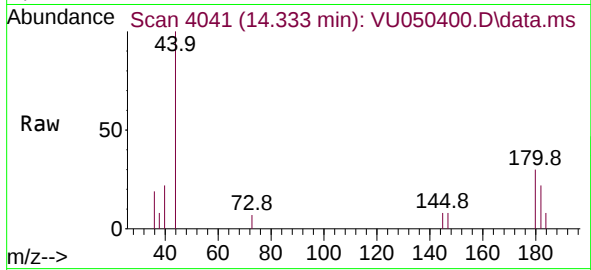
Acq: 22 Aug 2022 15:00

Instrument :

MSVOA_U

ClientSampleId :

WS-OXYGENATESDL



Tgt Ion:180 Resp: 604

Ion Ratio Lower Upper

180 100

182 74.7 76.6 114.8#

145 14.7 27.3 40.9#

