

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU082222\
 Data File : VU050403.D
 Acq On : 22 Aug 2022 18:01
 Operator : SY/MD
 Sample : M3734-10DL 5X
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 WS-OXYGENATESDL

Quant Time: Aug 23 08:28:23 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)

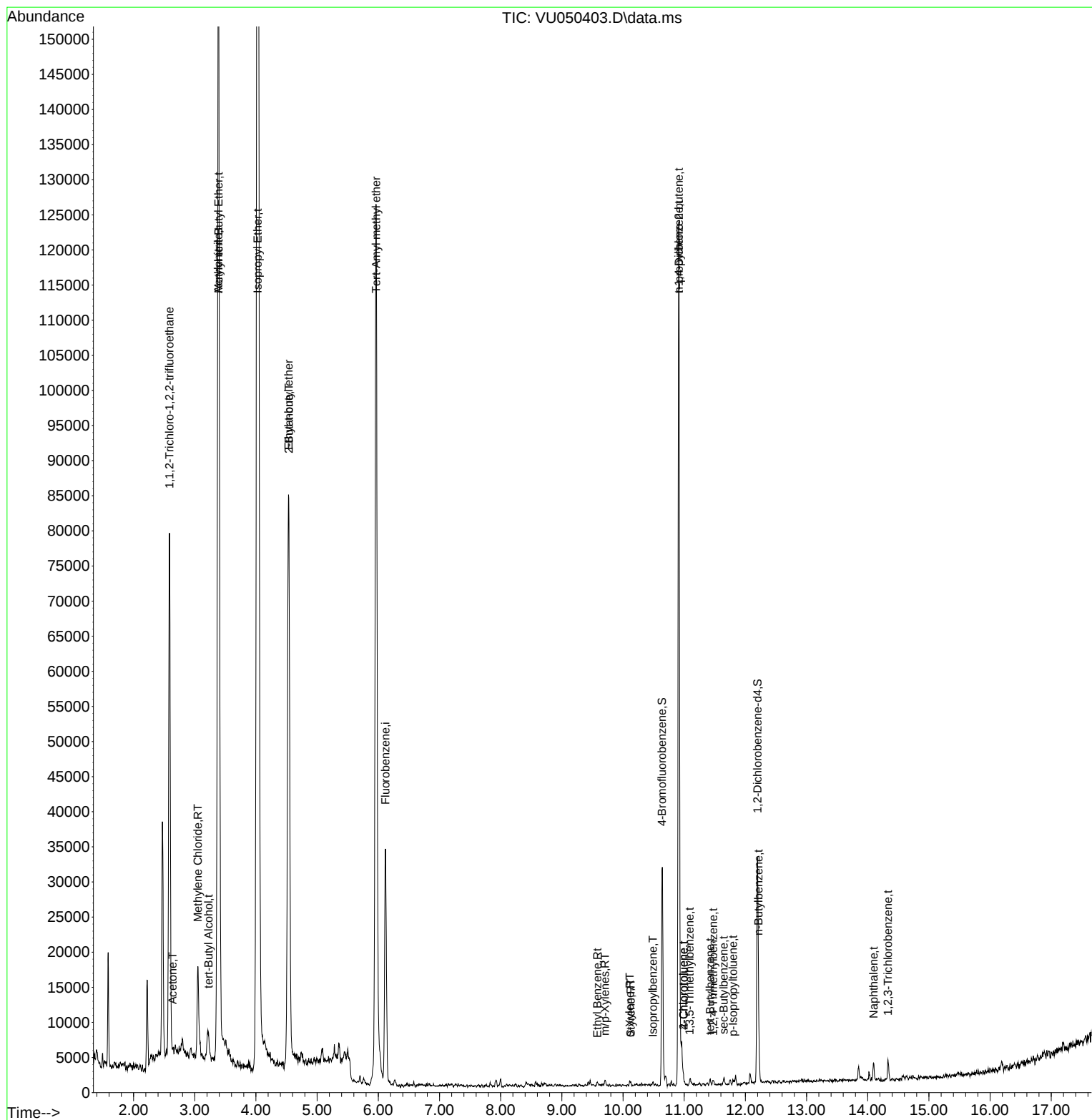
Internal Standards						
1) Fluorobenzene	6.118	96	33392	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.639	95	10836	0.953	ug/l	0.00
Spiked Amount 1.000			Recovery	=	95.000%	
68) 1,2-Dichlorobenzene-d4	12.198	152	9981	0.743	ug/l	0.00
Spiked Amount 1.000			Recovery	=	74.000%	
Target Compounds						
					Qvalue	
8) 1,1,2-Trichloro-1,2,2-...	2.588	101	30101	3.000	ug/l	96
12) Acrylonitrile	3.385	53	2599	0.881	ug/l #	28
13) Acetone	2.639	43	912	0.442	ug/l	94
15) Methylene Chloride	3.051	84	5512	0.414	ug/l	90
18) 2-Butanone	4.536	43	8258	2.545	ug/l #	1
24) tert-Butyl Alcohol	3.224	59	7328	8.201	ug/l #	73
25) Methyl tert-Butyl Ether	3.388	73	182152	6.973	ug/l	95
31) Isopropyl Ether	4.028	45	300108	9.137	ug/l	99
32) Ethyl-t-butyl ether	4.533	59	81640	3.164	ug/l	99
33) Tert-Amyl methyl ether	5.964	73	96135	5.715	ug/l	98
46) t-1,4-Dichloro-2-butene	10.912	75	680	0.709	ug/l #	1
63) Ethyl Benzene	9.581	91	530	0.580	ug/l #	44
64) m/p-Xylenes	9.706	106	347	1.101	ug/l	92
65) o-Xylene	10.112	106	174	0.521	ug/l	97
66) Styrene	10.128	104	300	0.609	ug/l #	30
69) Isopropylbenzene	10.491	105	518	0.580	ug/l #	50
73) n-propylbenzene	10.912	120	21003	2.090	ug/l	95
74) 2-Chlorotoluene	10.989	126	20	0.391	ug/l #	1
75) 1,3,5-Trimethylbenzene	11.089	105	626	0.538	ug/l #	1
76) 4-Chlorotoluene	10.989	126	20	0.403	ug/l #	1
77) tert-Butylbenzene	11.423	119	496	0.506	ug/l #	29
78) 1,2,4-Trimethylbenzene	11.475	105	619	0.579	ug/l	77
79) sec-Butylbenzene	11.645	105	892	0.564	ug/l #	80
81) p-Isopropyltoluene	11.796	119	559	0.617	ug/l #	54
84) n-Butylbenzene	12.214	91	1270	0.616	ug/l	92
89) Naphthalene	14.095	128	2651	1.035	ug/l #	90
90) 1,2,3-Trichlorobenzene	14.330	180	1187	0.566	ug/l #	88

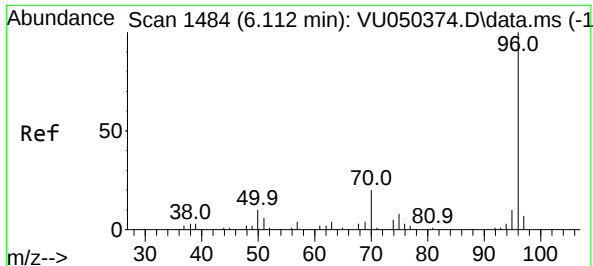
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 23 08:28:23 2022
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Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Tue Aug 23 08:18:20 2022
Response via : Initial Calibration

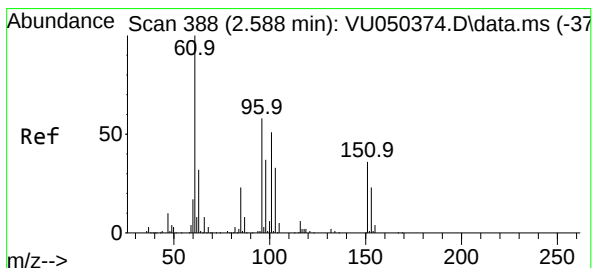
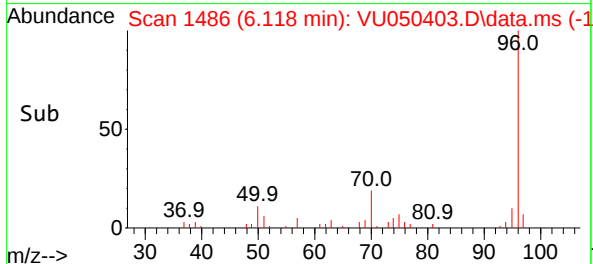
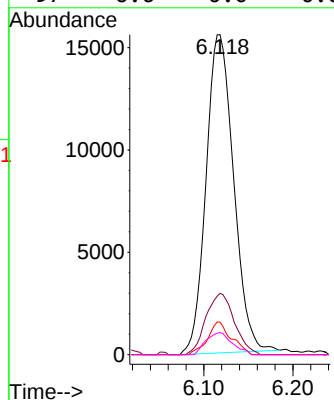
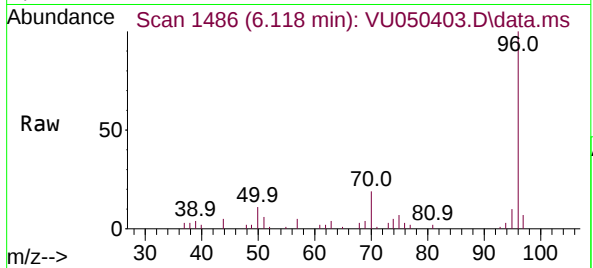




#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.118 min Scan# 1484
Delta R.T. 0.003 min
Lab File: VU050403.D
Acq: 22 Aug 2022 18:01

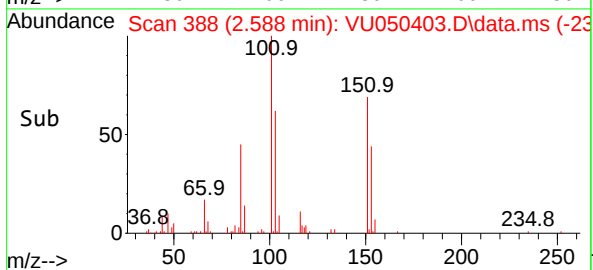
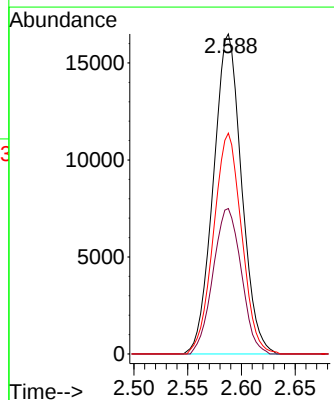
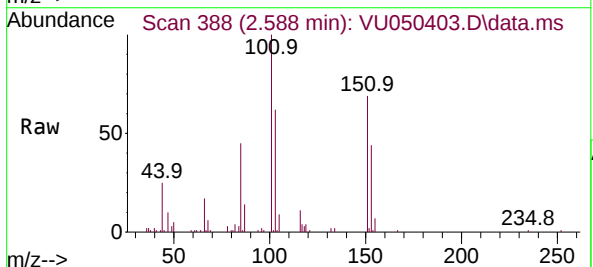
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MSVOA_U
ClientSampleId :
WS-OXYGENATESDL

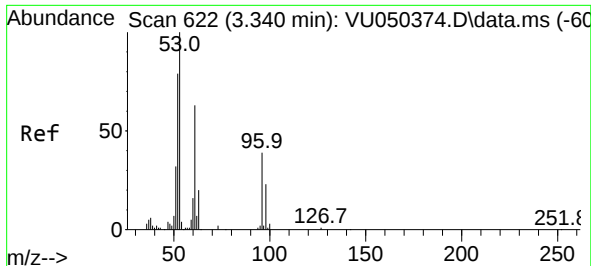
Tgt Ion: 96 Resp: 33392
Ion Ratio Lower Upper
96 100
70 19.9 16.7 25.1
95 8.9 7.4 11.0
97 6.6 0.0 0.0#



#8
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 3.000 ug/l
RT: 2.588 min Scan# 388
Delta R.T. 0.007 min
Lab File: VU050403.D
Acq: 22 Aug 2022 18:01

Tgt Ion:101 Resp: 30101
Ion Ratio Lower Upper
101 100
85 45.4 36.4 54.6
151 68.7 59.1 88.7

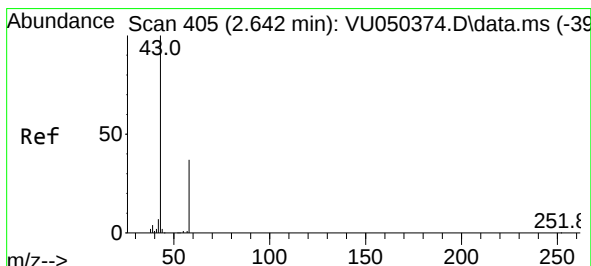
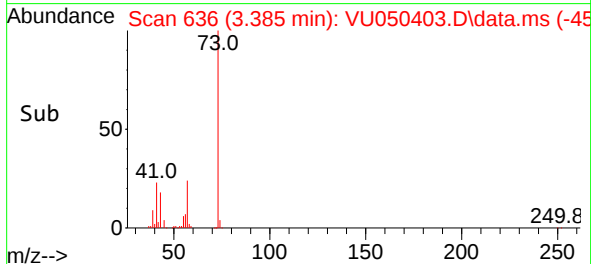
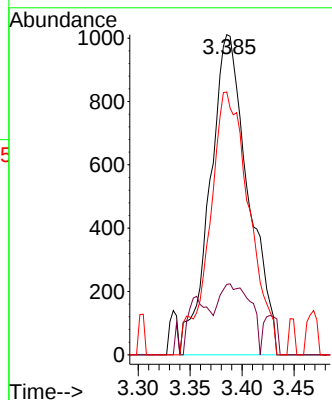
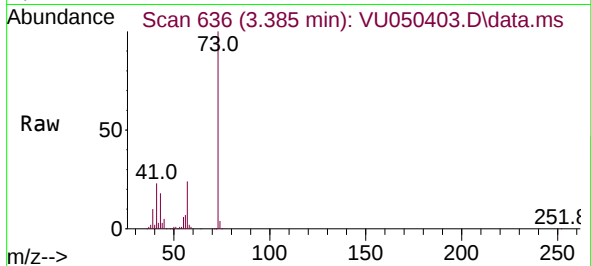




#12
Acrylonitrile
Concen: 0.881 ug/l
RT: 3.385 min Scan# 61
Delta R.T. 0.068 min
Lab File: VU050403.D
Acq: 22 Aug 2022 18:01

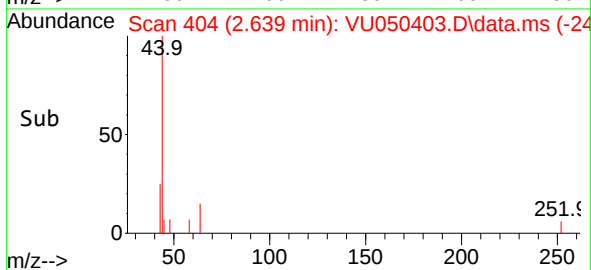
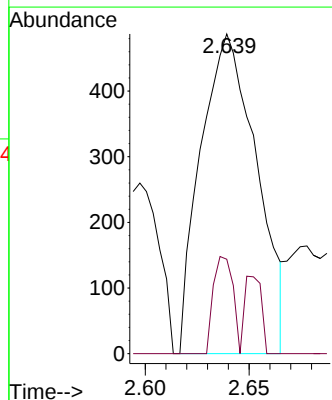
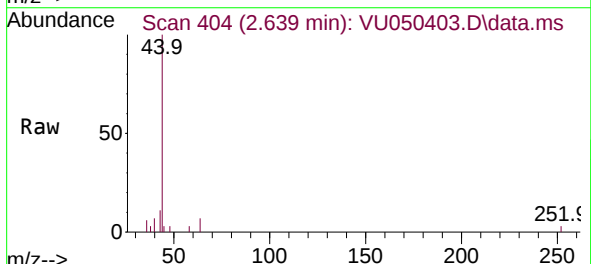
Instrument :
MSVOA_U
ClientSampleId :
WS-OXYGENATESDL

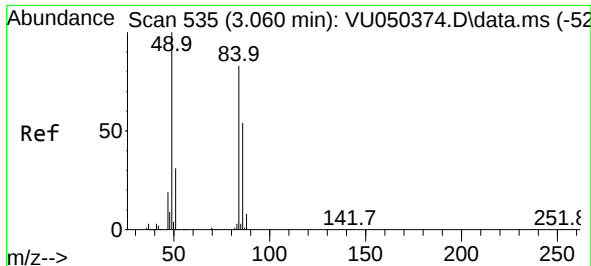
Tgt Ion: 53 Resp: 2599
Ion Ratio Lower Upper
53 100
52 18.2 64.6 97.0#
51 84.5 30.7 46.1#



#13
Acetone
Concen: 0.442 ug/l
RT: 2.639 min Scan# 404
Delta R.T. 0.013 min
Lab File: VU050403.D
Acq: 22 Aug 2022 18:01

Tgt Ion: 43 Resp: 912
Ion Ratio Lower Upper
43 100
58 29.6 26.2 39.2

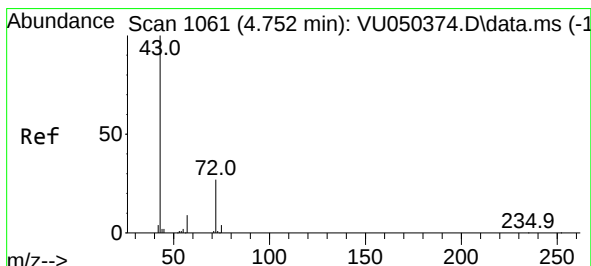
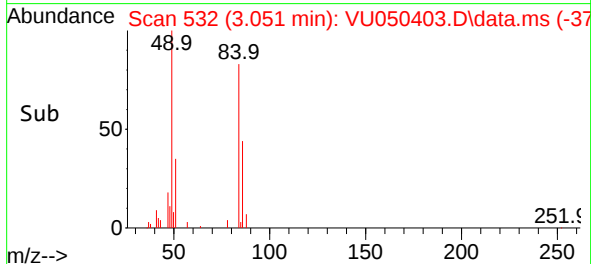
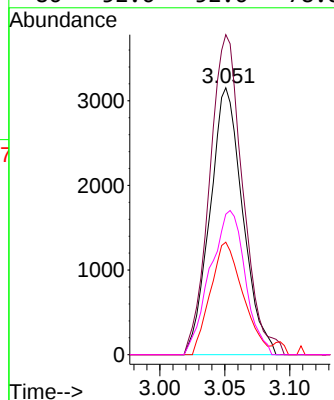
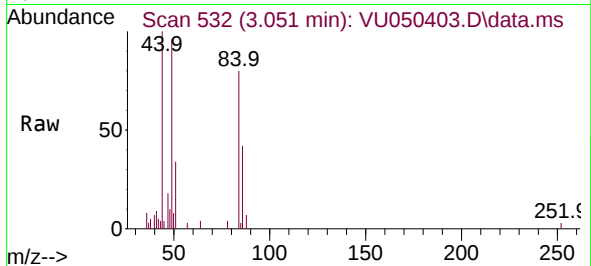




#15
Methylene Chloride
Concen: 0.414 ug/l
RT: 3.051 min Scan# 511
Delta R.T. 0.007 min
Lab File: VU050403.D
Acq: 22 Aug 2022 18:01

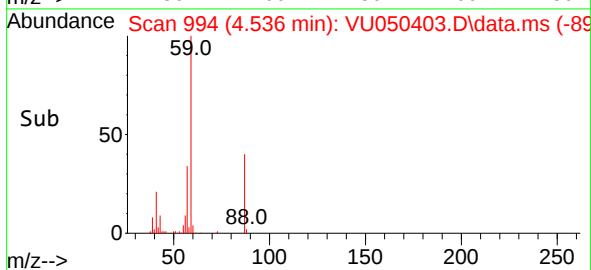
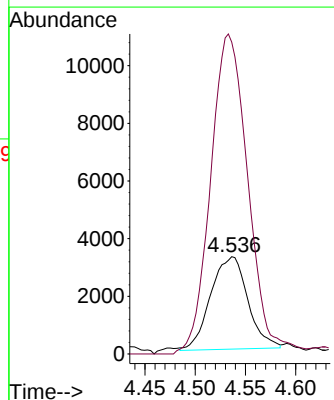
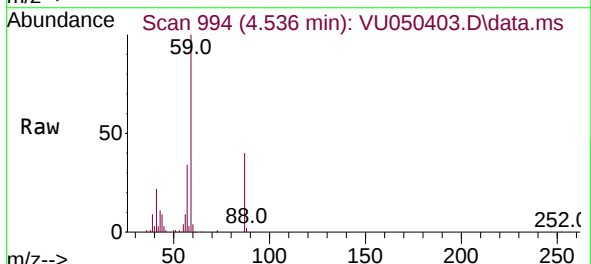
Instrument :
MSVOA_U
ClientSampleId :
WS-OXYGENATESDL

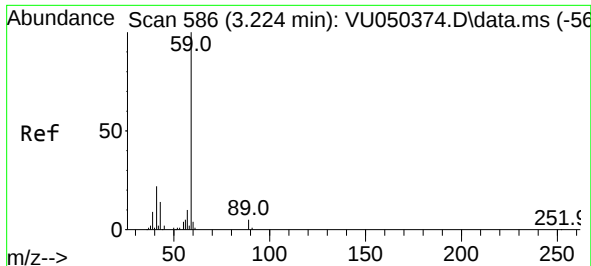
Tgt Ion:	84	Resp:	5512
Ion	Ratio	Lower	Upper
84	100		
49	119.9	104.6	157.0
51	42.2	0.0	81.4
86	52.6	52.6	78.8



#18
2-Butanone
Concen: 2.545 ug/l
RT: 4.536 min Scan# 994
Delta R.T. -0.183 min
Lab File: VU050403.D
Acq: 22 Aug 2022 18:01

Tgt Ion:	43	Resp:	8258
Ion	Ratio	Lower	Upper
43	100		
57	336.5	0.0	18.0#

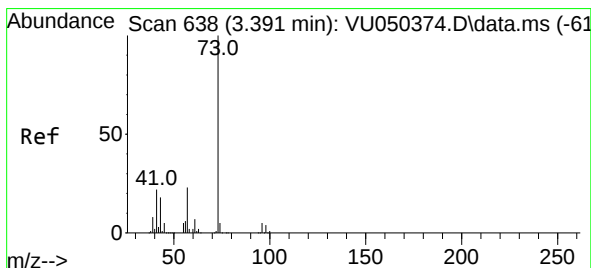
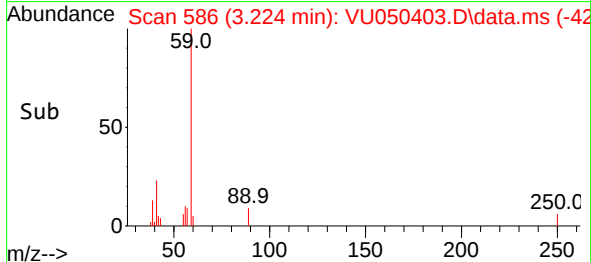
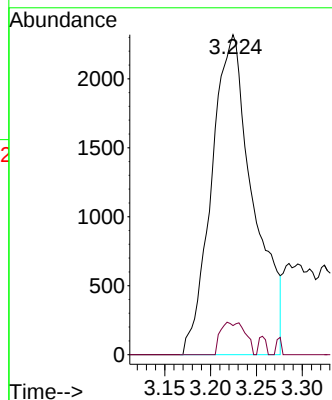
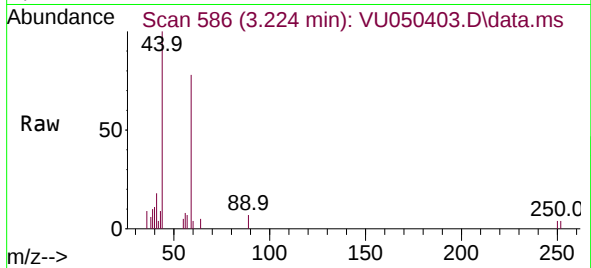




#24
tert-Butyl Alcohol
Concen: 8.201 ug/l
RT: 3.224 min Scan# 586
Delta R.T. 0.029 min
Lab File: VU050403.D
Acq: 22 Aug 2022 18:01

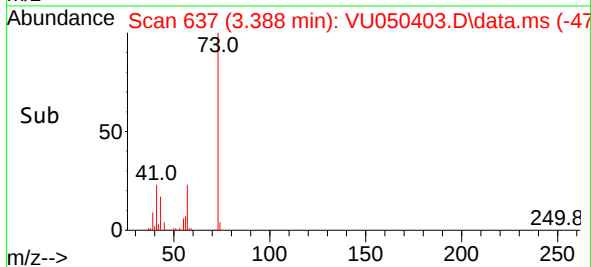
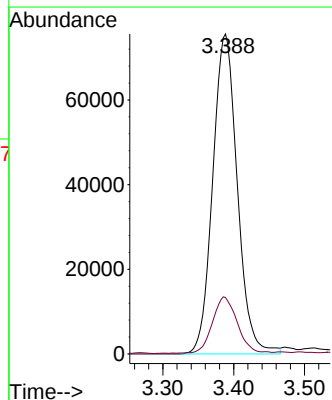
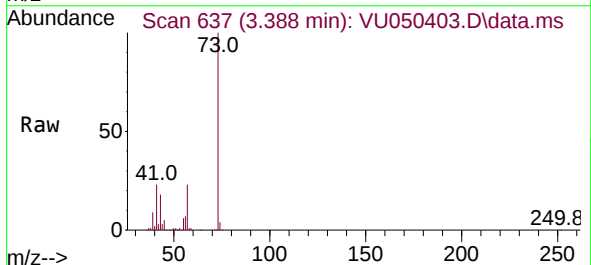
Instrument :
MSVOA_U
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WS-OXYGENATESDL

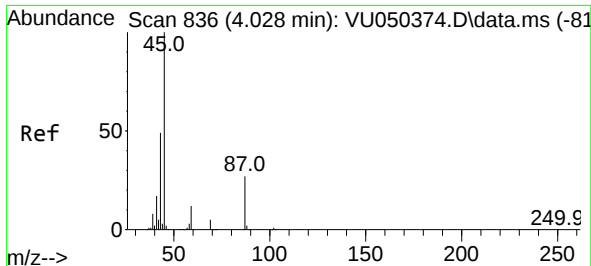
Tgt Ion: 59 Resp: 7328
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



#25
Methyl tert-Butyl Ether
Concen: 6.973 ug/l
RT: 3.388 min Scan# 637
Delta R.T. 0.019 min
Lab File: VU050403.D
Acq: 22 Aug 2022 18:01

Tgt Ion: 73 Resp: 182152
Ion Ratio Lower Upper
73 100
43 17.6 15.9 23.9

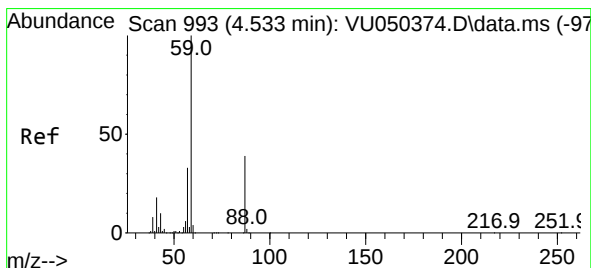
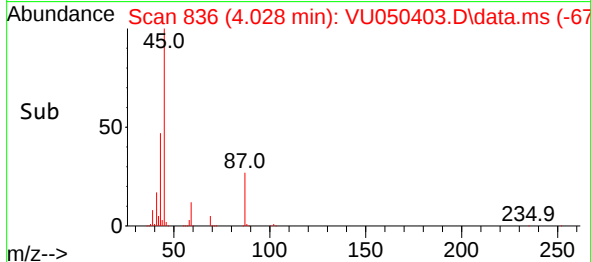
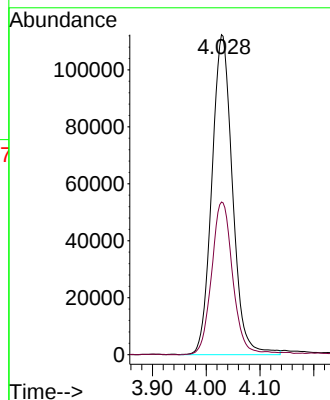
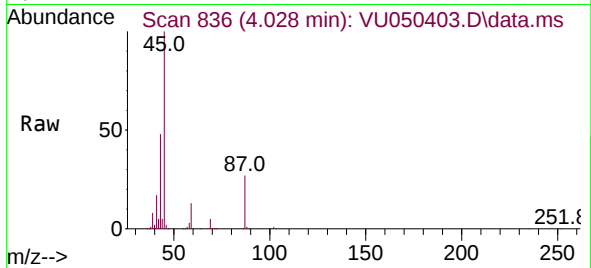




#31
Isopropyl Ether
Concen: 9.137 ug/l
RT: 4.028 min Scan# 836
Delta R.T. 0.026 min
Lab File: VU050403.D
Acq: 22 Aug 2022 18:01

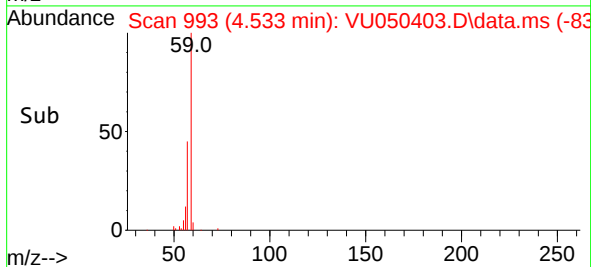
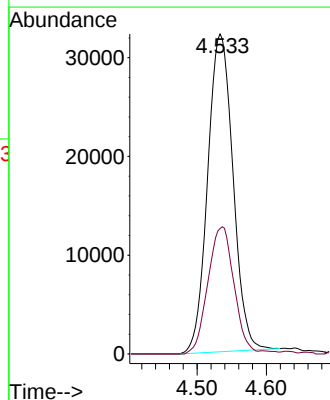
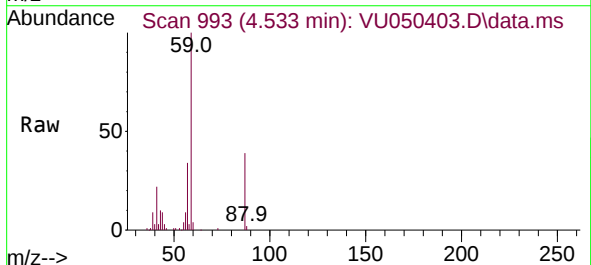
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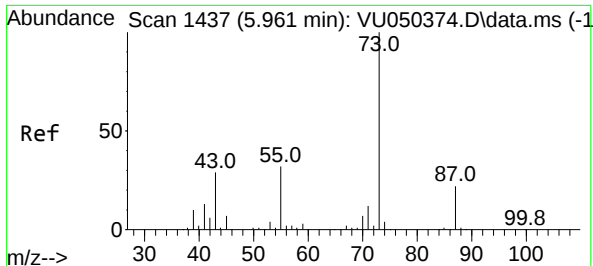
Tgt Ion: 45 Resp: 300108
Ion Ratio Lower Upper
45 100
43 48.4 23.8 71.2



#32
Ethyl-t-butyl ether
Concen: 3.164 ug/l
RT: 4.533 min Scan# 993
Delta R.T. 0.019 min
Lab File: VU050403.D
Acq: 22 Aug 2022 18:01

Tgt Ion: 59 Resp: 81640
Ion Ratio Lower Upper
59 100
87 40.0 32.5 48.7

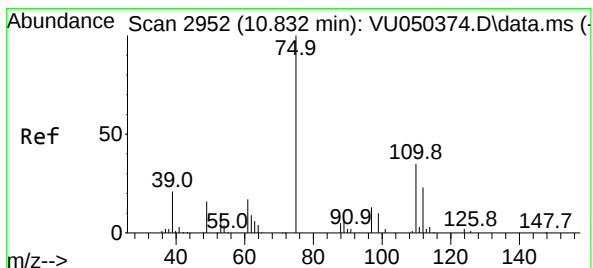
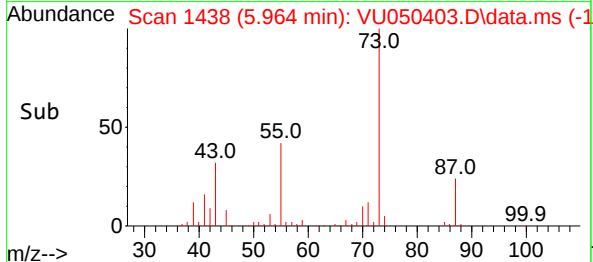
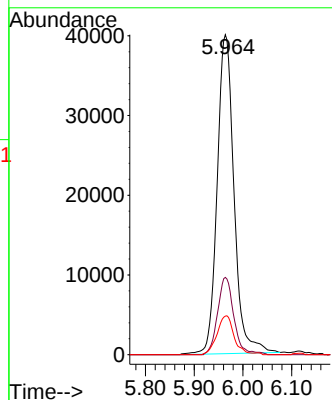
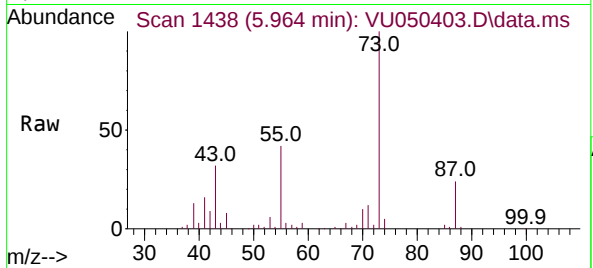




#33
Tert-Amyl methyl ether
Concen: 5.715 ug/l
RT: 5.964 min Scan# 1437
Delta R.T. 0.016 min
Lab File: VU050403.D
Acq: 22 Aug 2022 18:01

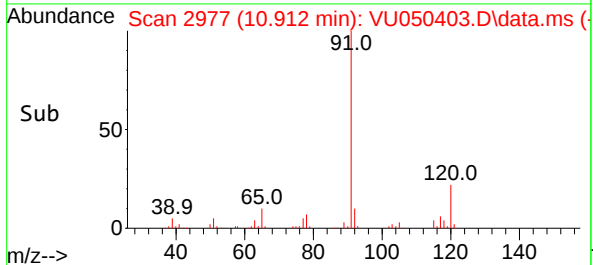
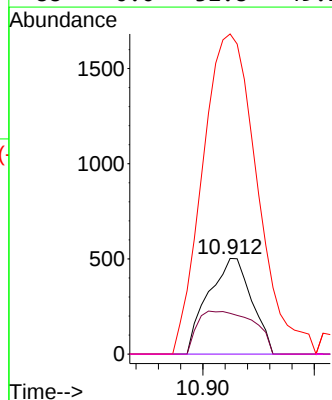
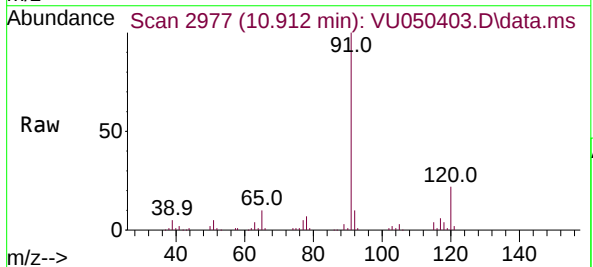
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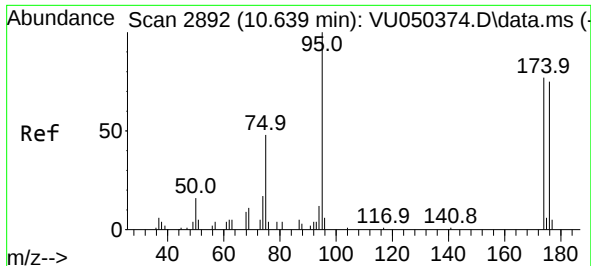
Tgt Ion: 73 Resp: 96135
Ion Ratio Lower Upper
73 100
87 23.4 19.7 29.5
71 11.6 9.0 13.4



#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: VU050403.D
Acq: 22 Aug 2022 18:01

Tgt Ion: 75 Resp: 680
Ion Ratio Lower Upper
75 100
53 58.1 64.4 96.6#
89 420.7 44.2 66.2#
88 0.0 32.8 49.2#





#57

4-Bromofluorobenzene

Concen: 0.953 ug/l

RT: 10.639 min Scan# 2892

Delta R.T. 0.007 min

Lab File: VU050403.D

Acq: 22 Aug 2022 18:01

Instrument :

MSVOA_U

ClientSampleId :

WS-OXYGENATESDL

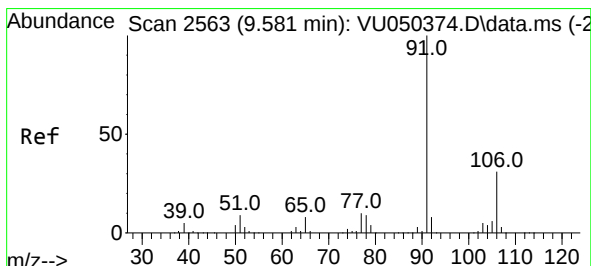
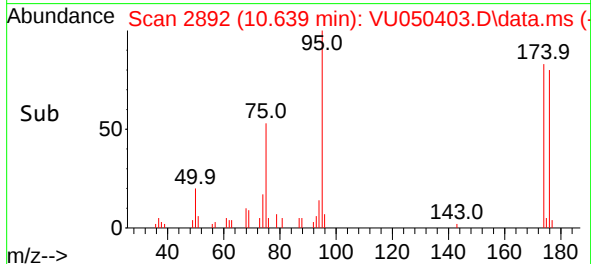
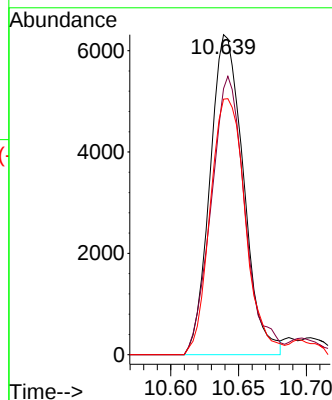
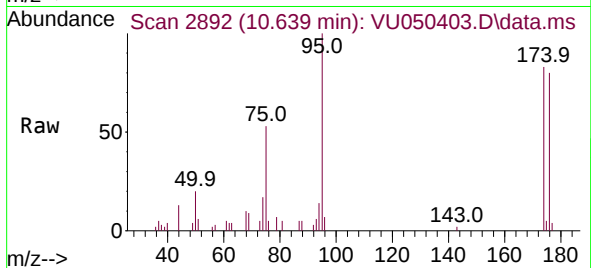
Tgt Ion: 95 Resp: 10836

Ion Ratio Lower Upper

95 100

174 87.9 62.4 93.6

176 84.2 56.2 84.2



#63

Ethyl Benzene

Concen: 0.580 ug/l

RT: 9.581 min Scan# 2563

Delta R.T. 0.010 min

Lab File: VU050403.D

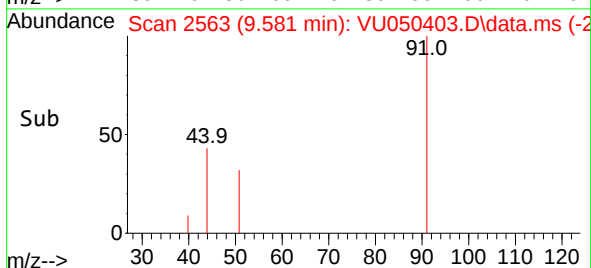
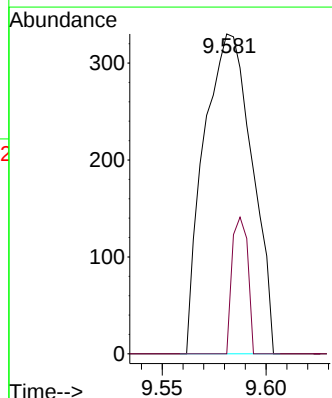
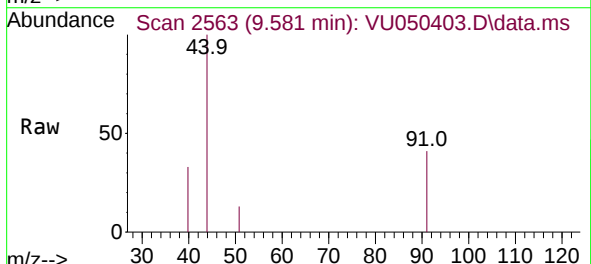
Acq: 22 Aug 2022 18:01

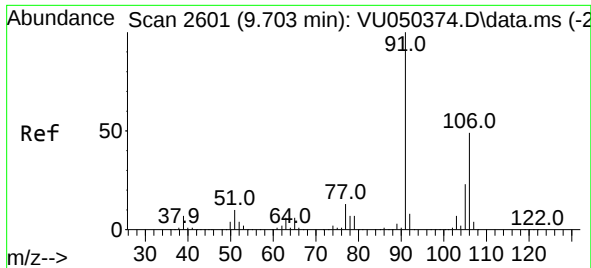
Tgt Ion: 91 Resp: 530

Ion Ratio Lower Upper

91 100

106 0.0 24.4 36.6#

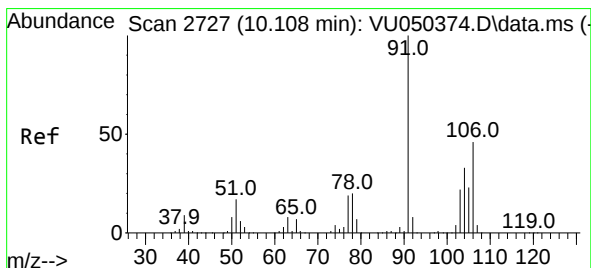
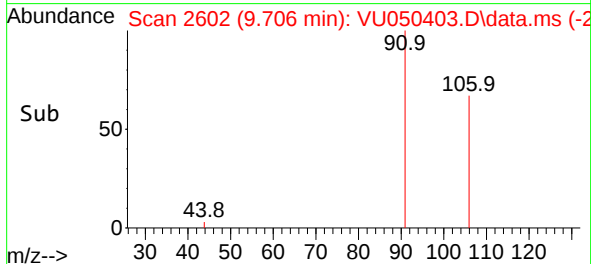
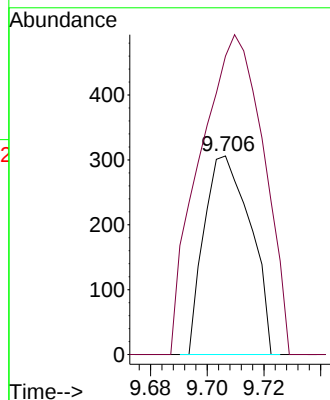
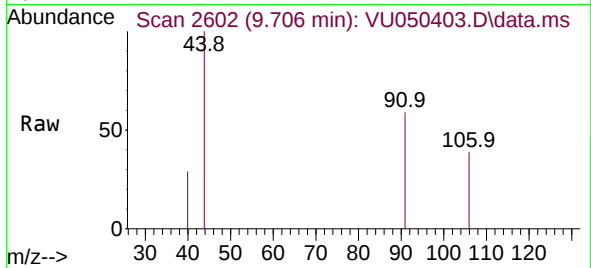




#64
m/p-Xylenes
Concen: 1.101 ug/l
RT: 9.706 min Scan# 21
Delta R.T. 0.013 min
Lab File: VU050403.D
Acq: 22 Aug 2022 18:01

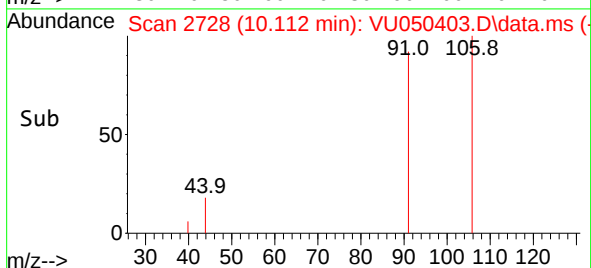
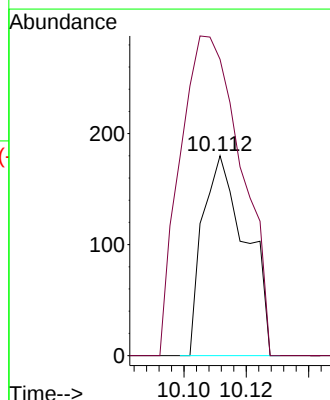
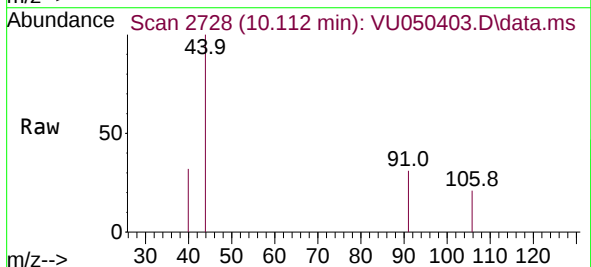
Instrument :
MSVOA_U
ClientSampleId :
WS-OXYGENATESDL

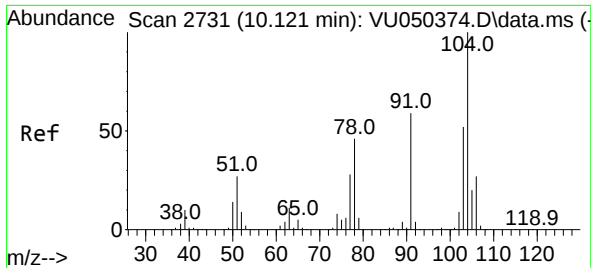
Tgt Ion:106 Resp: 347
Ion Ratio Lower Upper
106 100
91 222.2 167.8 251.6



#65
o-Xylene
Concen: 0.521 ug/l
RT: 10.112 min Scan# 2728
Delta R.T. 0.010 min
Lab File: VU050403.D
Acq: 22 Aug 2022 18:01

Tgt Ion:106 Resp: 174
Ion Ratio Lower Upper
106 100
91 226.4 111.1 333.2

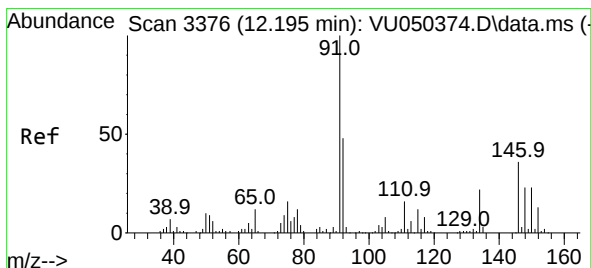
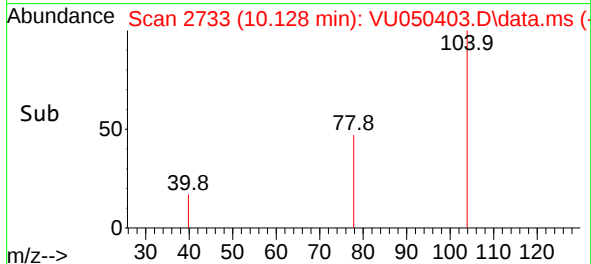
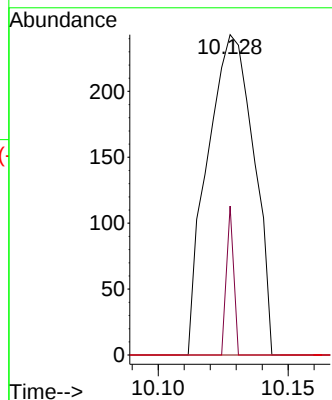
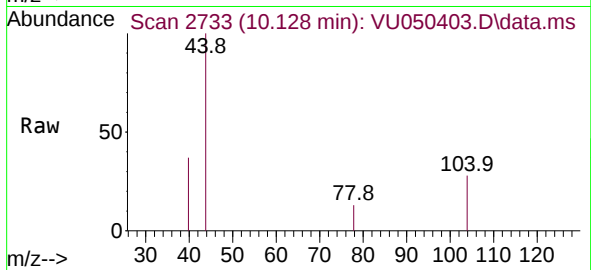




#66
 Styrene
 Concen: 0.609 ug/l
 RT: 10.128 min Scan# 21
 Delta R.T. 0.013 min
 Lab File: VU050403.D
 Acq: 22 Aug 2022 18:01

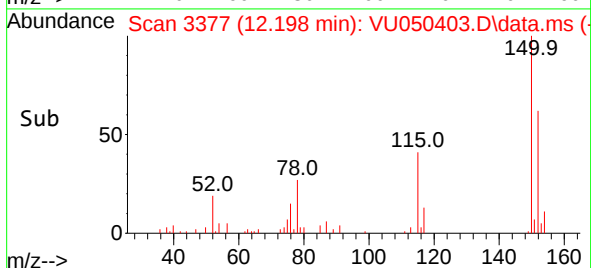
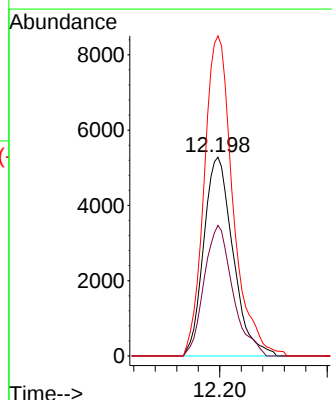
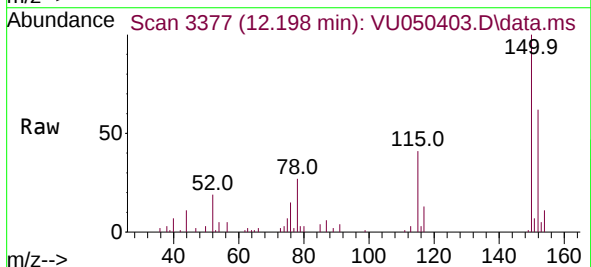
Instrument :
 MSVOA_U
 ClientSampleId :
 WS-OXYGENATESDL

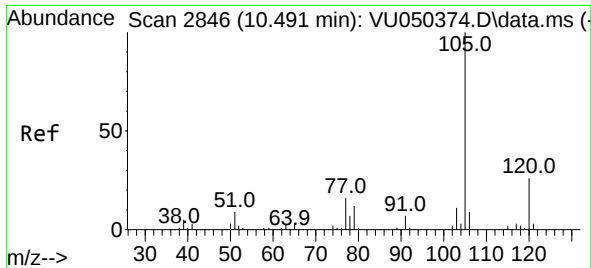
Tgt Ion:104 Resp: 300
 Ion Ratio Lower Upper
 104 100
 78 7.3 42.1 63.1#
 103 0.0 44.5 66.7#



#68
 1,2-Dichlorobenzene-d4
 Concen: 0.743 ug/l
 RT: 12.198 min Scan# 3377
 Delta R.T. 0.003 min
 Lab File: VU050403.D
 Acq: 22 Aug 2022 18:01

Tgt Ion:152 Resp: 9981
 Ion Ratio Lower Upper
 152 100
 115 64.5 0.0 254.6
 150 158.3 0.0 623.6

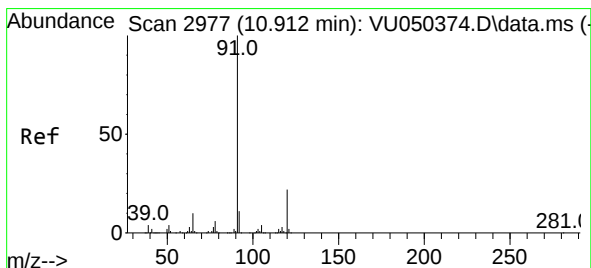
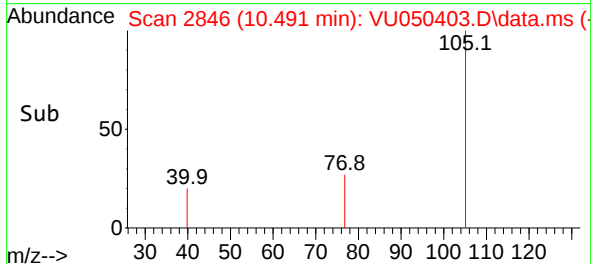
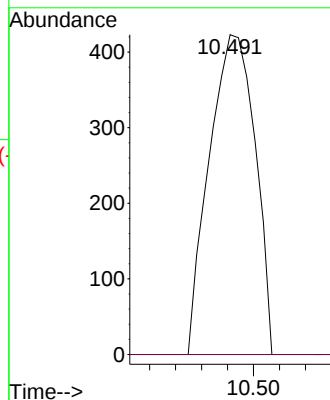
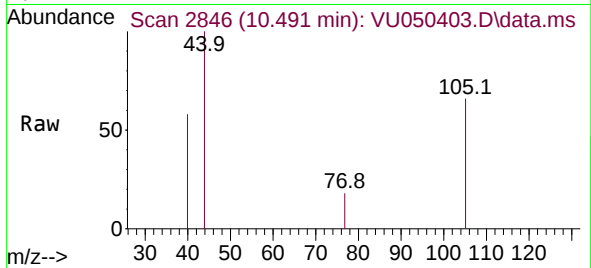




#69
Isopropylbenzene
Concen: 0.580 ug/l
RT: 10.491 min Scan# 2846
Delta R.T. 0.007 min
Lab File: VU050403.D
Acq: 22 Aug 2022 18:01

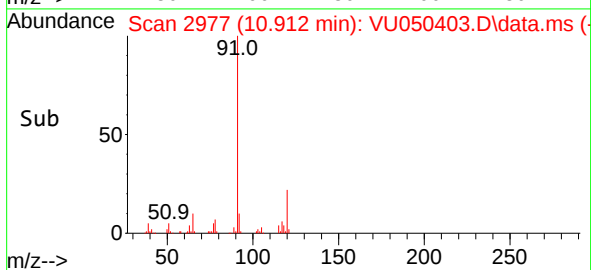
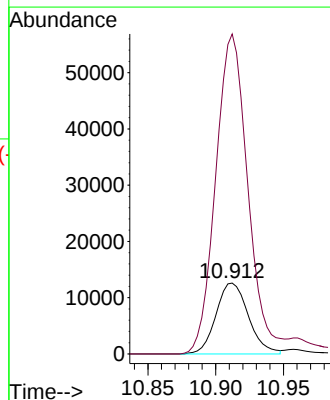
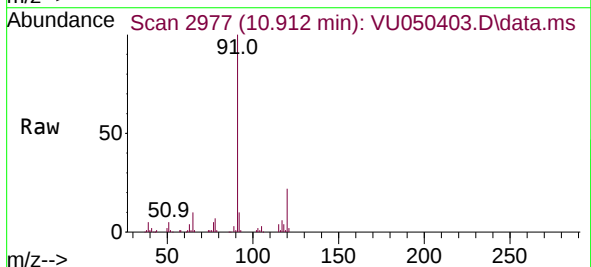
Instrument :
MSVOA_U
ClientSampleId :
WS-OXYGENATESDL

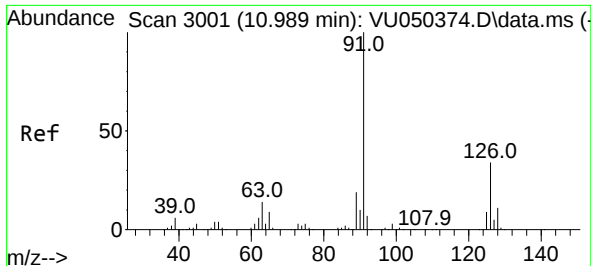
Tgt Ion:105 Resp: 518
Ion Ratio Lower Upper
105 100
120 0.0 12.6 37.8#



#73
n-propylbenzene
Concen: 2.090 ug/l
RT: 10.912 min Scan# 2977
Delta R.T. 0.007 min
Lab File: VU050403.D
Acq: 22 Aug 2022 18:01

Tgt Ion:120 Resp: 21003
Ion Ratio Lower Upper
120 100
91 446.4 367.8 551.6

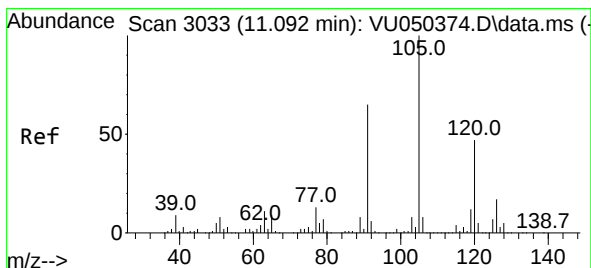
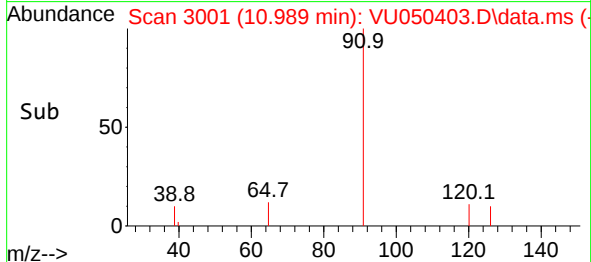
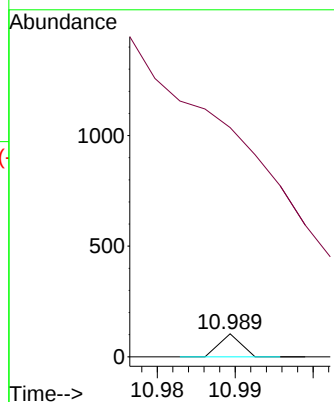
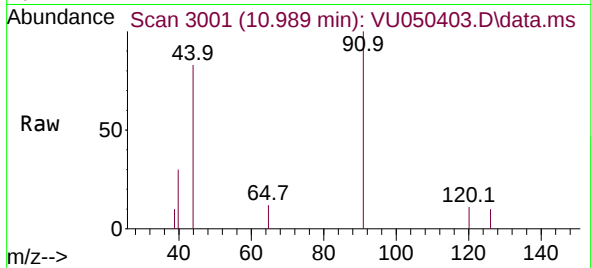




#74
2-Chlorotoluene
Concen: 0.391 ug/l
RT: 10.989 min Scan# 3001
Delta R.T. 0.003 min
Lab File: VU050403.D
Acq: 22 Aug 2022 18:01

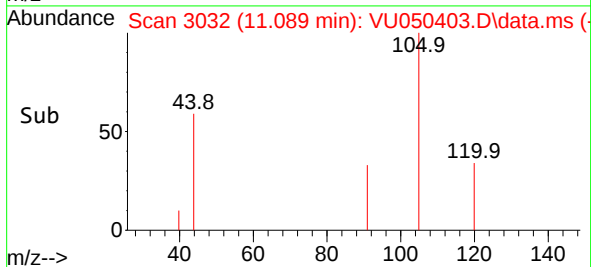
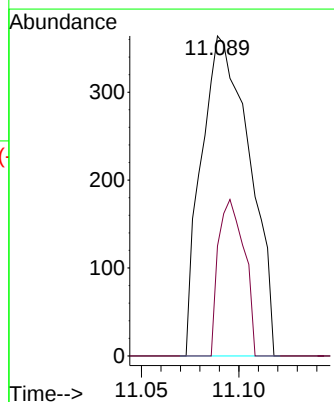
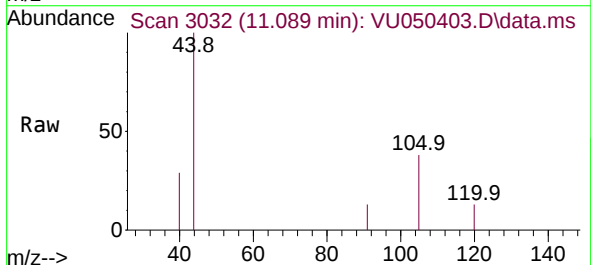
Instrument :
MSVOA_U
ClientSampleId :
WS-OXYGENATESDL

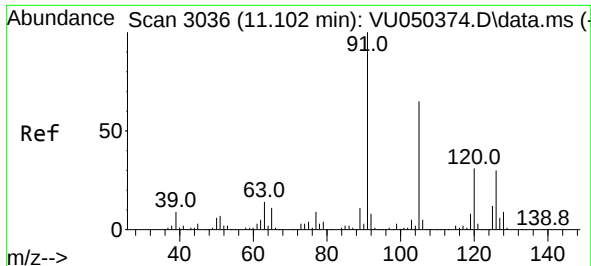
Tgt Ion:126 Resp: 20
Ion Ratio Lower Upper
126 100
91 468835.0 0.0 620.6#



#75
1,3,5-Trimethylbenzene
Concen: 0.538 ug/l
RT: 11.089 min Scan# 3032
Delta R.T. 0.000 min
Lab File: VU050403.D
Acq: 22 Aug 2022 18:01

Tgt Ion:105 Resp: 626
Ion Ratio Lower Upper
105 100
120 156.7 37.6 56.4#

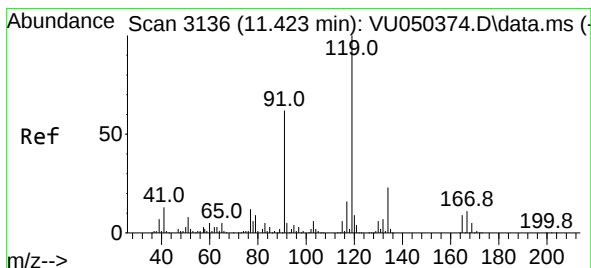
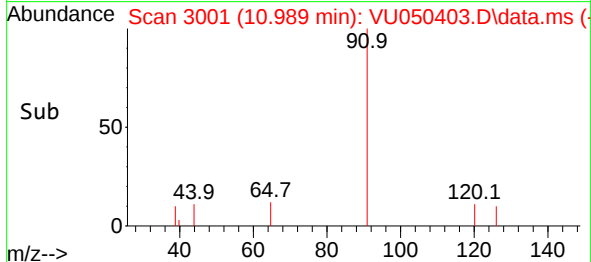
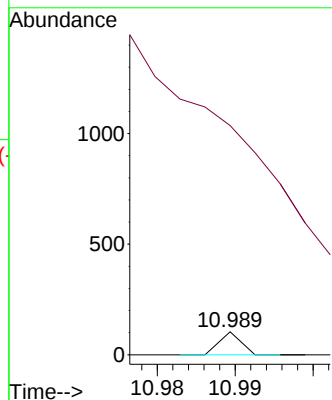
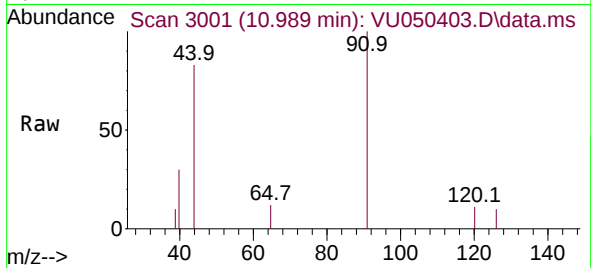




#76
4-Chlorotoluene
Concen: 0.403 ug/l
RT: 10.989 min Scan# 3036
Delta R.T. -0.109 min
Lab File: VU050403.D
Acq: 22 Aug 2022 18:01

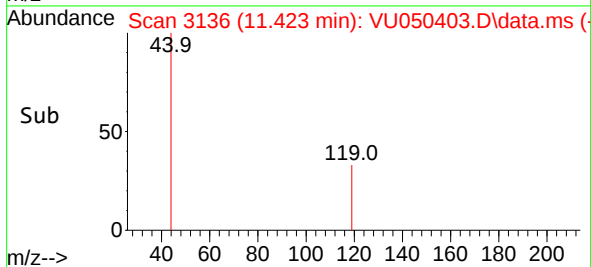
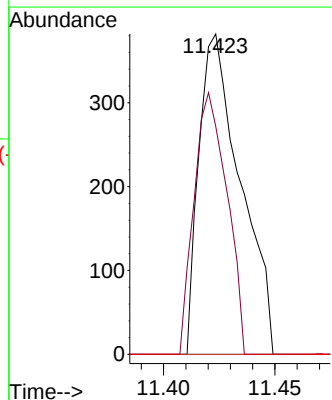
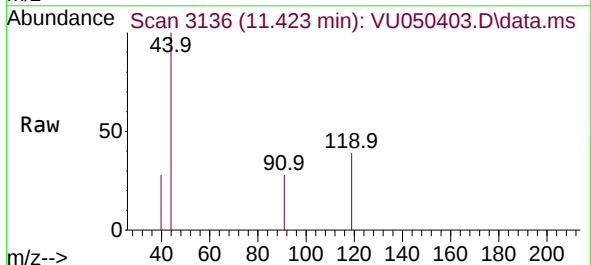
Instrument :
MSVOA_U
ClientSampleId :
WS-OXYGENATESDL

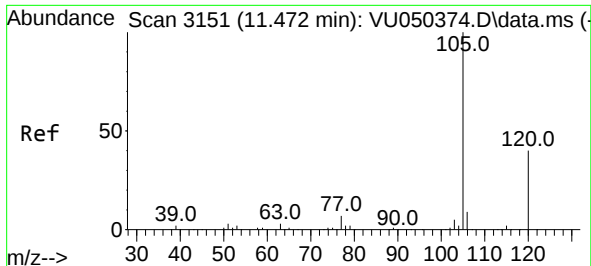
Tgt Ion:126 Resp: 20
Ion Ratio Lower Upper
126 100
91 468835.0 0.0 738.8#



#77
tert-Butylbenzene
Concen: 0.506 ug/l
RT: 11.423 min Scan# 3136
Delta R.T. 0.003 min
Lab File: VU050403.D
Acq: 22 Aug 2022 18:01

Tgt Ion:119 Resp: 496
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: 0.579 ug/l

RT: 11.475 min Scan# 3151

Delta R.T. 0.007 min

Lab File: VU050403.D

Acq: 22 Aug 2022 18:01

Instrument :

MSVOA_U

ClientSampleId :

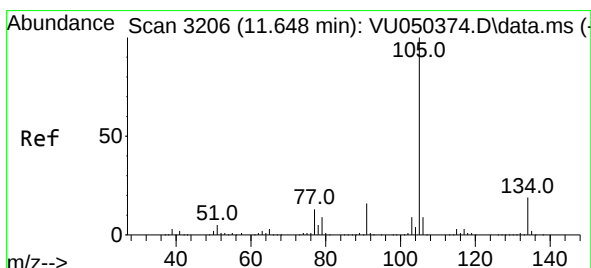
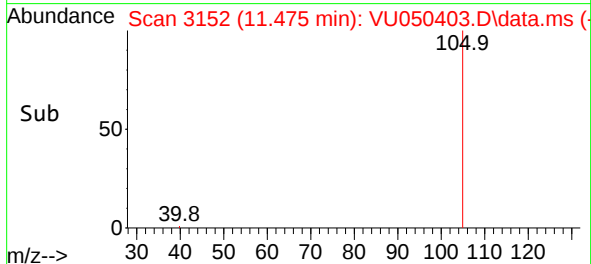
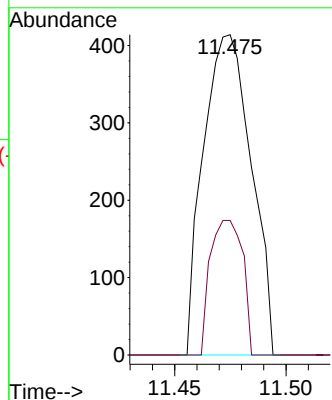
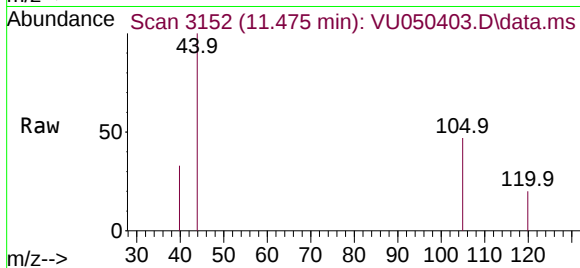
WS-OXYGENATESDL

Tgt Ion:105 Resp: 619

Ion Ratio Lower Upper

105 100

120 28.3 21.6 65.0



#79

sec-Butylbenzene

Concen: 0.564 ug/l

RT: 11.645 min Scan# 3205

Delta R.T. 0.000 min

Lab File: VU050403.D

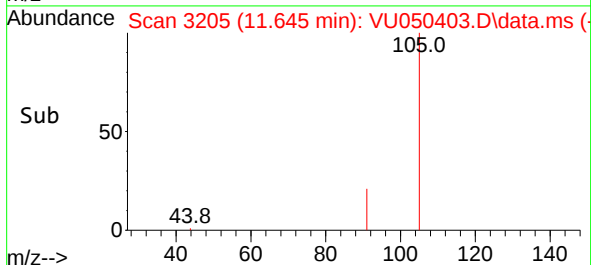
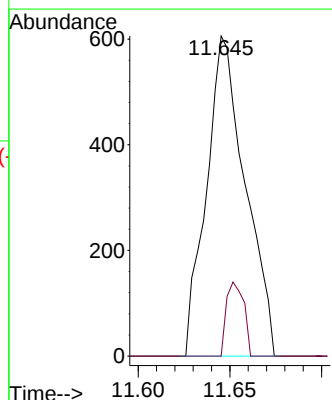
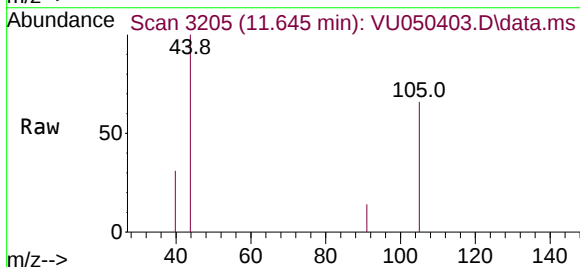
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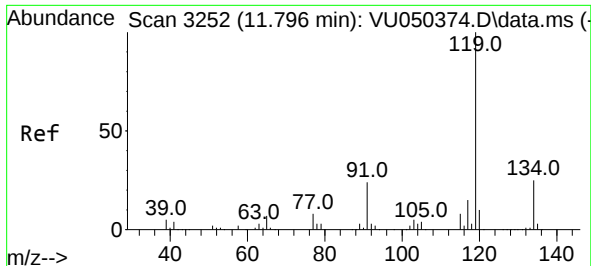
Tgt Ion:105 Resp: 892

Ion Ratio Lower Upper

105 100

134 10.3 15.4 23.0#

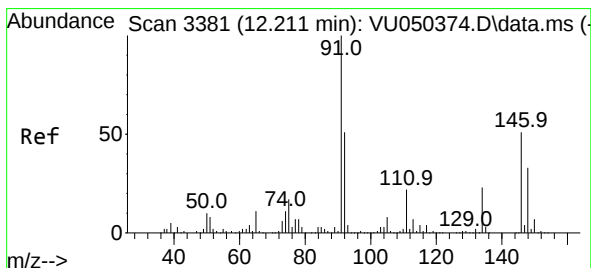
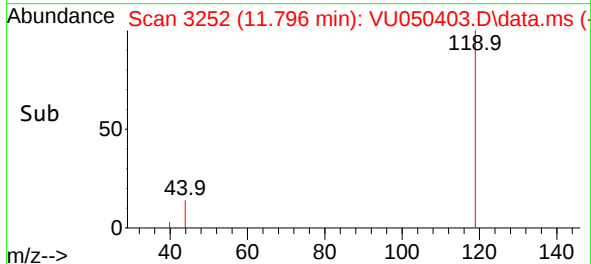
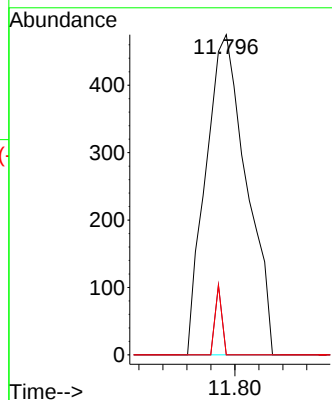
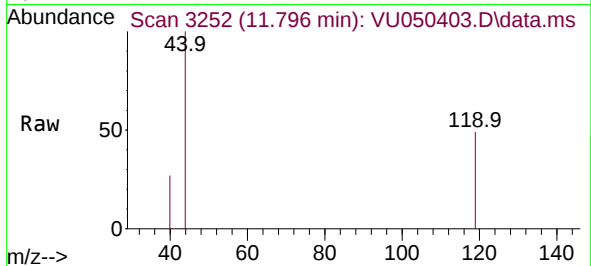




#81
p-Isopropyltoluene
Concen: 0.617 ug/l
RT: 11.796 min Scan# 31
Delta R.T. 0.003 min
Lab File: VU050403.D
Acq: 22 Aug 2022 18:01

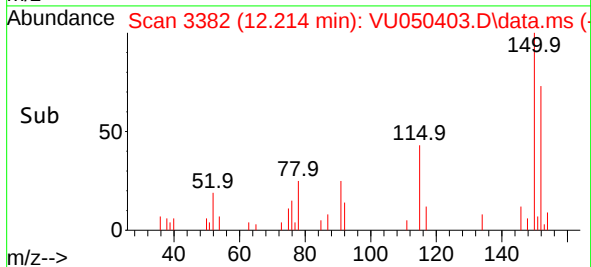
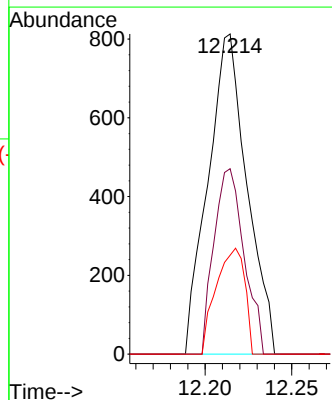
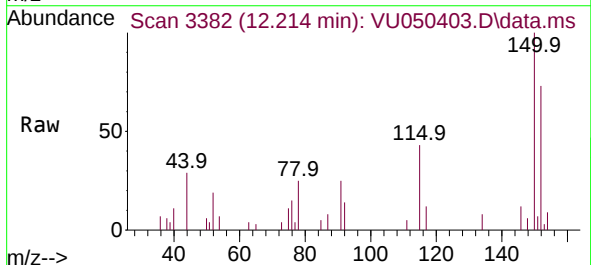
Instrument :
MSVOA_U
ClientSampleId :
WS-OXYGENATESDL

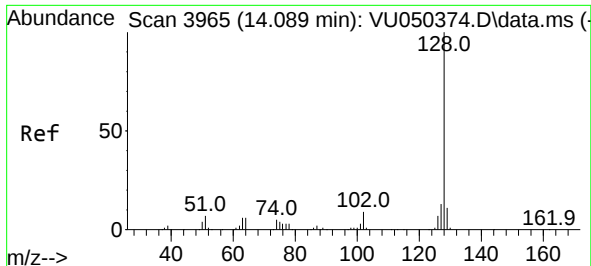
Tgt Ion:119 Resp: 559
Ion Ratio Lower Upper
119 100
134 3.6 20.5 30.7#
91 0.0 19.8 29.6#



#84
n-Butylbenzene
Concen: 0.616 ug/l
RT: 12.214 min Scan# 3382
Delta R.T. 0.003 min
Lab File: VU050403.D
Acq: 22 Aug 2022 18:01

Tgt Ion: 91 Resp: 1270
Ion Ratio Lower Upper
91 100
92 44.7 42.3 63.5
134 24.3 19.6 29.4

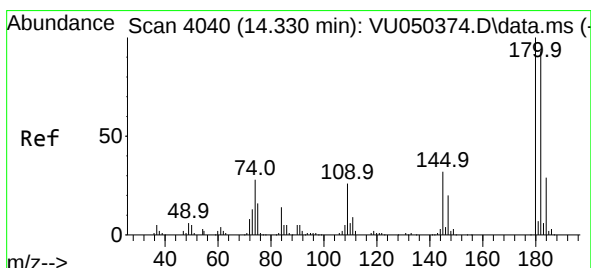
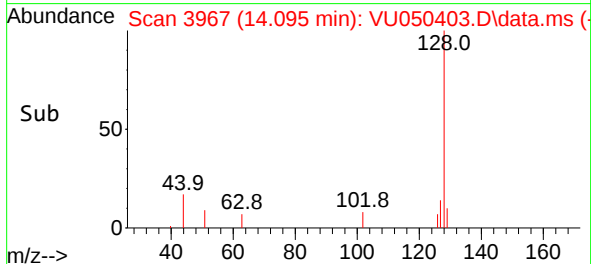
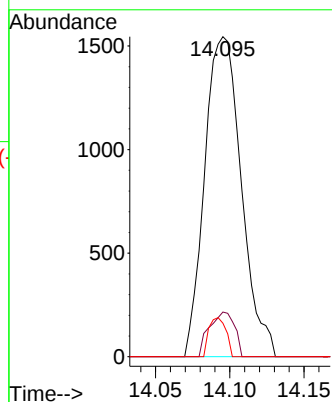
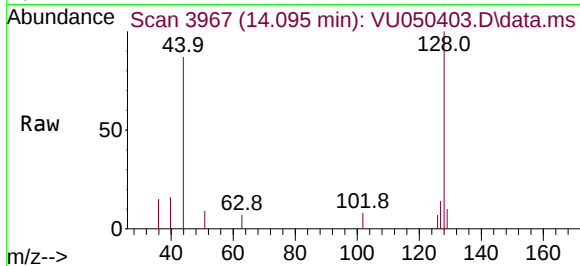




#89
Naphthalene
Concen: 1.035 ug/l
RT: 14.095 min Scan# 3965
Delta R.T. 0.007 min
Lab File: VU050403.D
Acq: 22 Aug 2022 18:01

Instrument :
MSVOA_U
ClientSampleId :
WS-OXYGENATESDL

Tgt Ion:128	Resp:	2651
Ion Ratio	Lower	Upper
128	100	
127	9.6	10.1 15.1#
129	5.7	8.6 12.8#



#90
1,2,3-Trichlorobenzene
Concen: 0.566 ug/l
RT: 14.330 min Scan# 4040
Delta R.T. 0.000 min
Lab File: VU050403.D
Acq: 22 Aug 2022 18:01

Tgt Ion:180	Resp:	1187
Ion Ratio	Lower	Upper
180	100	
182	86.5	76.6 114.8
145	23.4	27.3 40.9#

