

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU080724\
 Data File : VU060341.D
 Acq On : 07 Aug 2024 17:12
 Operator : MD/SY
 Sample : P3204-10DL 5X
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Aug 08 06:01:03 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U080524DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Tue Aug 06 11:07:28 2024
 Response via : Initial Calibration

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

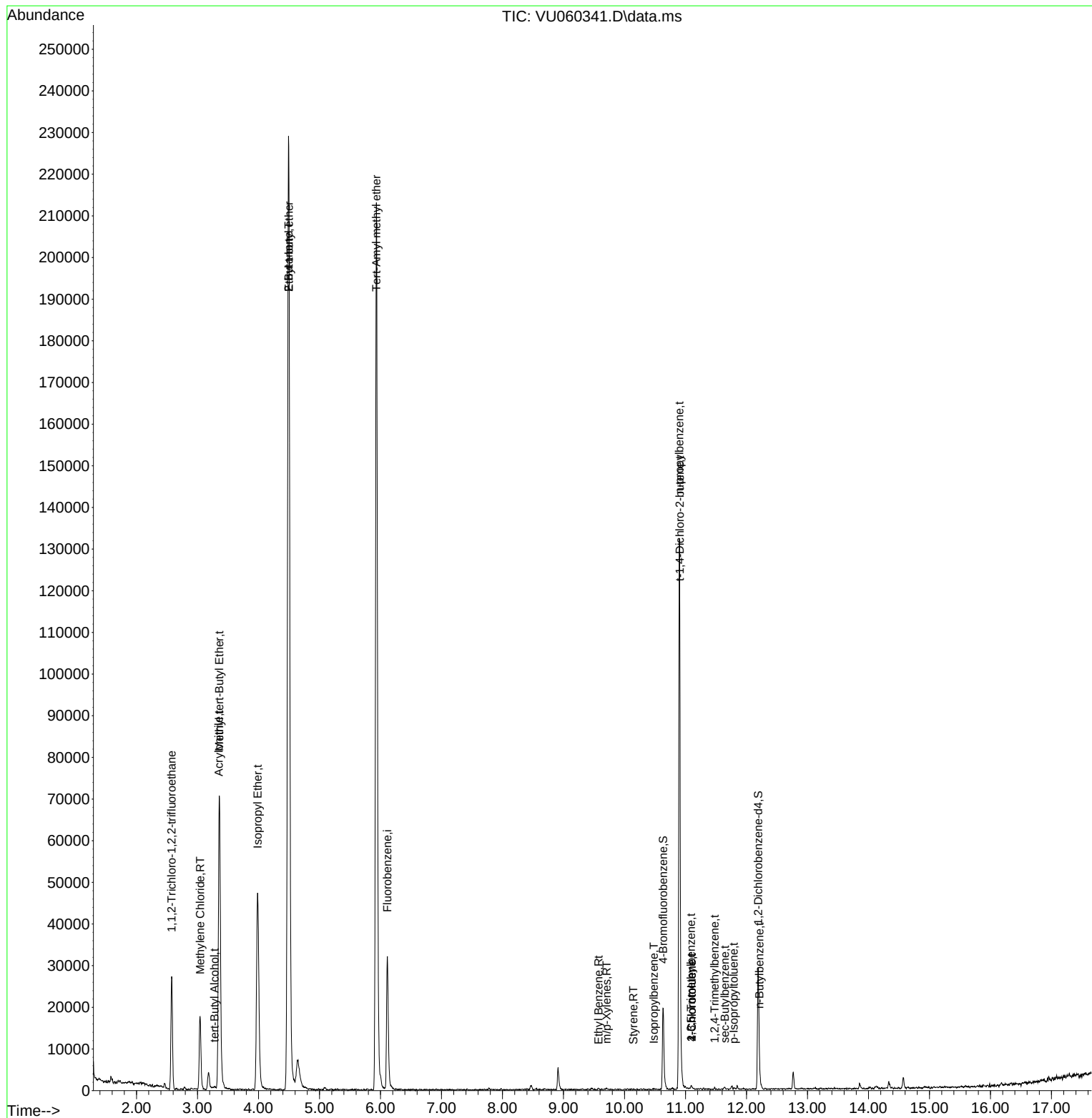
Internal Standards						
1) Fluorobenzene	6.113	96	32735	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.634	95	8247	0.739	ug/l	0.00
Spiked Amount 1.000			Recovery	=	74.000%	
68) 1,2-Dichlorobenzene-d4	12.193	152	10110	0.834	ug/l	0.00
Spiked Amount 1.000			Recovery	=	83.000%	
Target Compounds						
						Qvalue
8) 1,1,2-Trichloro-1,2,2-...	2.576	101	11618	1.230	ug/l	96
12) Acrylonitrile	3.351	53	1122	0.439	ug/l #	18
15) Methylene Chloride	3.046	84	9967	0.814	ug/l	92
18) 2-Butanone	4.492	43	23493	6.548	ug/l #	1
24) tert-Butyl Alcohol	3.277	59	342	0.344	ug/l #	83
25) Methyl tert-Butyl Ether	3.357	73	81613	3.397	ug/l	99
31) Isopropyl Ether	3.984	45	48189	1.635	ug/l	90
32) Ethyl-t-butyl ether	4.496	59	233394	8.194	ug/l	96
33) Tert-Amyl methyl ether	5.933	73	171878	8.501	ug/l	99
46) t-1,4-Dichloro-2-butene	10.907	75	682	0.234	ug/l #	1
63) Ethyl Benzene	9.576	91	466	0.508	ug/l #	44
64) m/p-Xylenes	9.704	106	20	0.899	ug/l #	1
66) Styrene	10.145	104	21	0.471	ug/l #	21
69) Isopropylbenzene	10.479	105	194	0.479	ug/l #	49
73) n-propylbenzene	10.901	120	23691	2.202	ug/l	100
74) 2-Chlorotoluene	11.103	126	79	0.322	ug/l #	1
75) 1,3,5-Trimethylbenzene	11.090	105	333	0.465	ug/l #	29
76) 4-Chlorotoluene	11.103	126	79	0.343	ug/l #	1
78) 1,2,4-Trimethylbenzene	11.479	105	304	0.503	ug/l #	65
79) sec-Butylbenzene	11.646	105	595	0.463	ug/l #	65
81) p-Isopropyltoluene	11.791	119	385	0.528	ug/l #	55
84) n-Butylbenzene	12.212	91	392	0.519	ug/l #	92

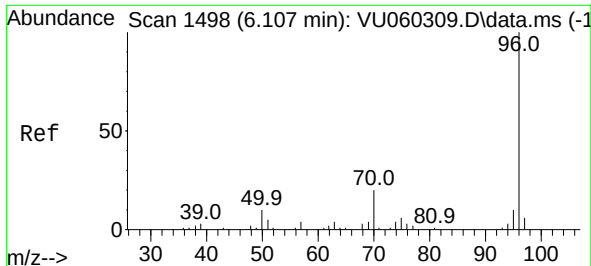
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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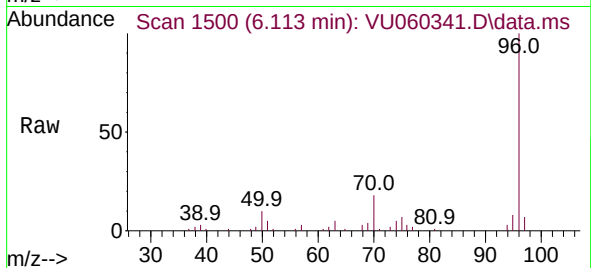
Quant Time: Aug 08 06:01:03 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U080524DW.M
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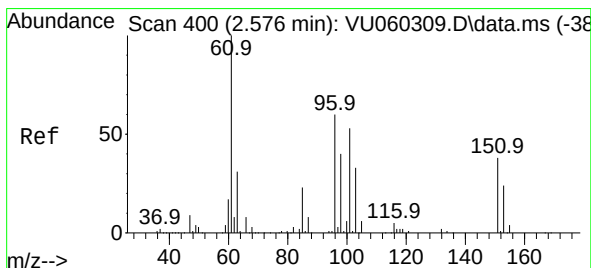
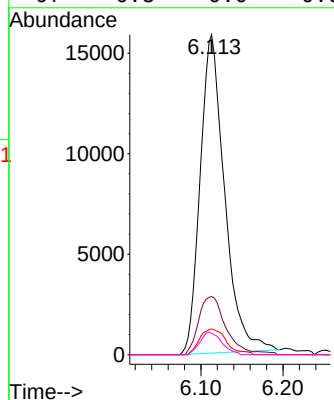
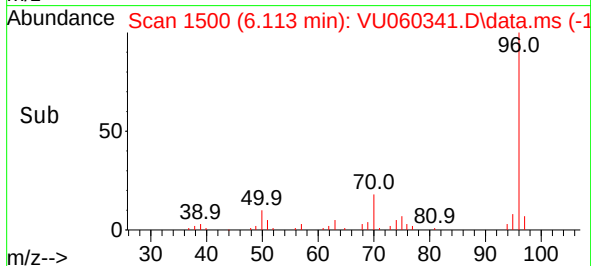


#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.113 min Scan# 1498
Delta R.T. 0.006 min
Lab File: VU060341.D
Acq: 07 Aug 2024 17:12

Instrument :
MSVOA_U
ClientSampleId :

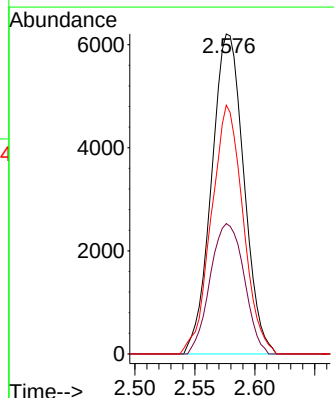
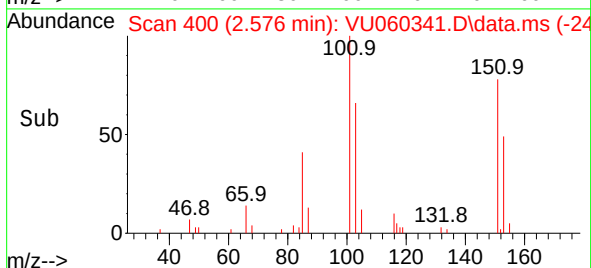
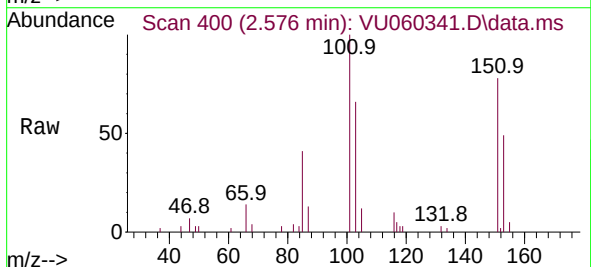


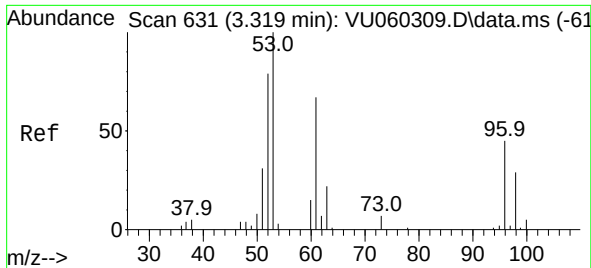
Tgt Ion: 96 Resp: 32735
Ion Ratio Lower Upper
96 100
70 20.6 17.2 25.8
95 8.8 7.9 11.9
97 6.3 0.0 0.0#



#8
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 1.230 ug/l
RT: 2.576 min Scan# 400
Delta R.T. -0.000 min
Lab File: VU060341.D
Acq: 07 Aug 2024 17:12

Tgt Ion:101 Resp: 11618
Ion Ratio Lower Upper
101 100
85 42.7 34.9 52.3
151 76.5 57.2 85.8





#12

Acrylonitrile

Concen: 0.439 ug/l

RT: 3.351 min Scan# 641

Delta R.T. 0.032 min

Lab File: VU060341.D

Acq: 07 Aug 2024 17:12

Instrument :

MSVOA_U

ClientSampleId :

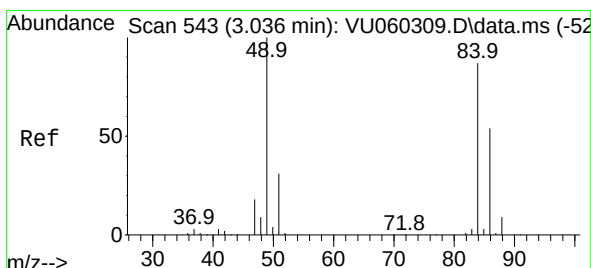
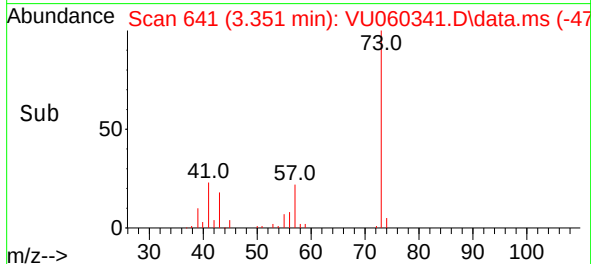
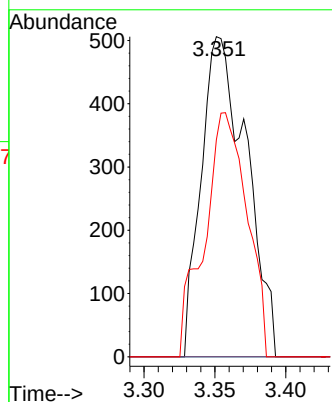
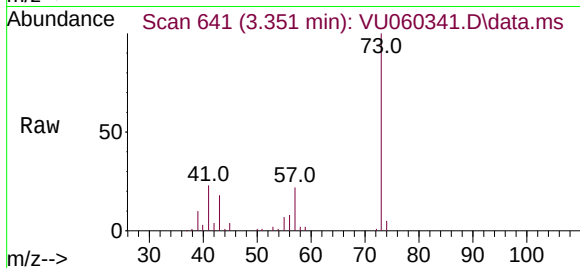
Tgt Ion: 53 Resp: 1122

Ion Ratio Lower Upper

53 100

52 0.0 63.7 95.5#

51 71.9 28.2 42.4#



#15

Methylene Chloride

Concen: 0.814 ug/l

RT: 3.046 min Scan# 546

Delta R.T. 0.010 min

Lab File: VU060341.D

Acq: 07 Aug 2024 17:12

Tgt Ion: 84 Resp: 9967

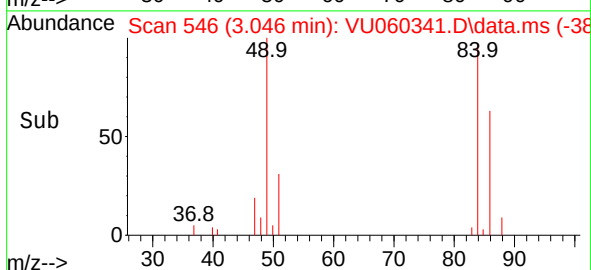
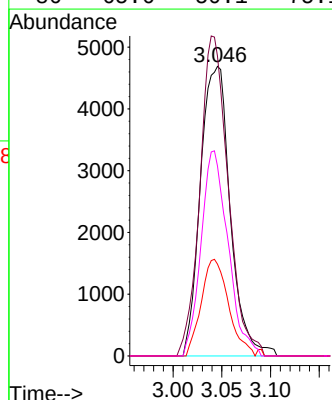
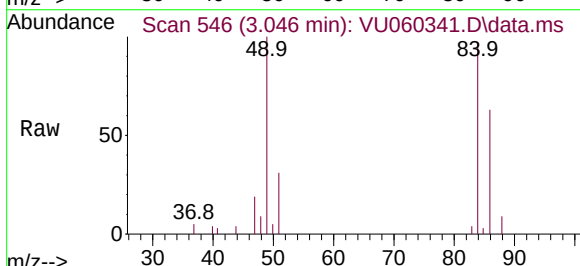
Ion Ratio Lower Upper

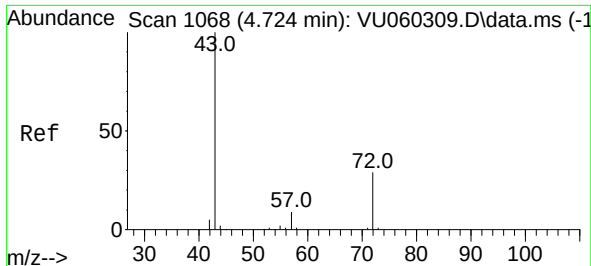
84 100

49 103.5 92.1 138.1

51 31.7 0.0 72.4

86 65.6 50.1 75.1

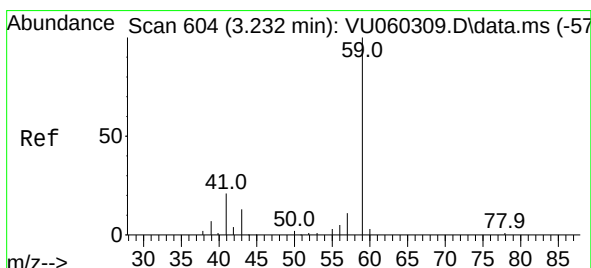
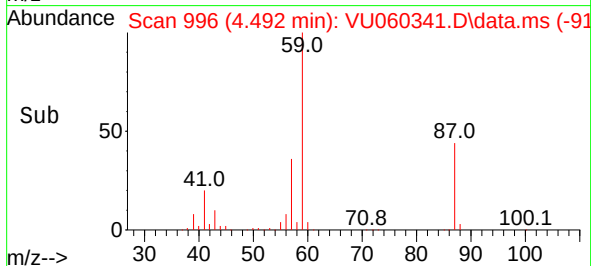
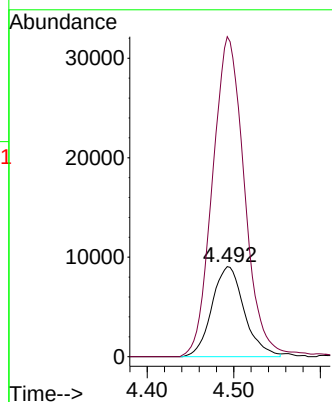
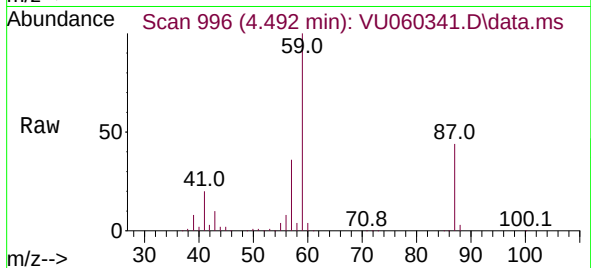




#18
2-Butanone
Concen: 6.548 ug/l
RT: 4.492 min Scan# 91
Delta R.T. -0.232 min
Lab File: VU060341.D
Acq: 07 Aug 2024 17:12

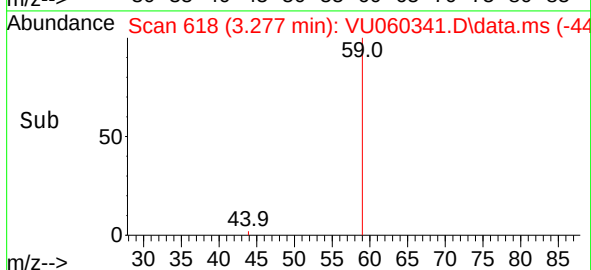
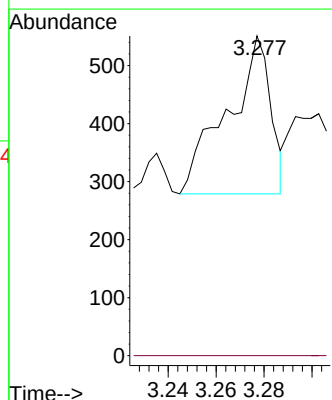
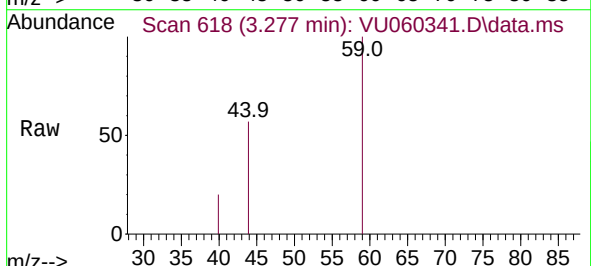
Instrument :
MSVOA_U
ClientSampleId :

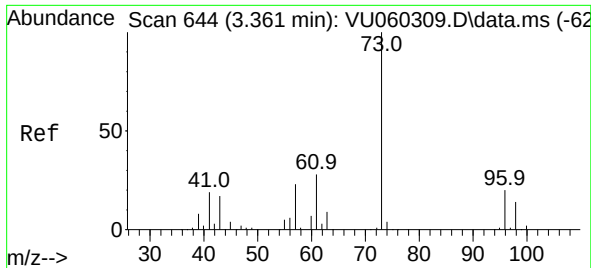
Tgt Ion: 43 Resp: 23493
Ion Ratio Lower Upper
43 100
57 355.1 0.0 18.4#



#24
tert-Butyl Alcohol
Concen: 0.344 ug/l
RT: 3.277 min Scan# 618
Delta R.T. 0.045 min
Lab File: VU060341.D
Acq: 07 Aug 2024 17:12

Tgt Ion: 59 Resp: 342
Ion Ratio Lower Upper
59 100
57 0.0 4.5 6.7#

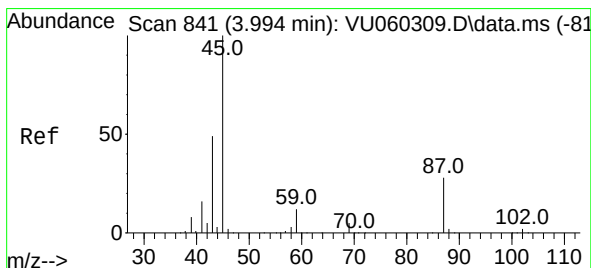
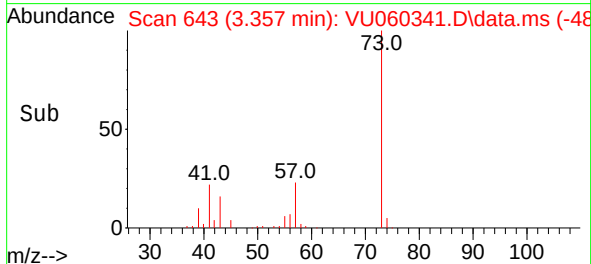
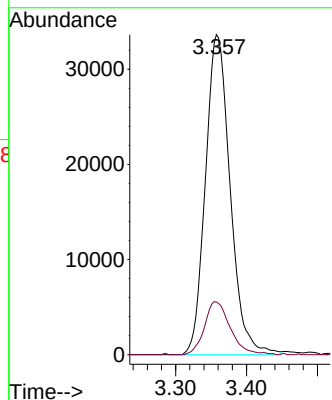
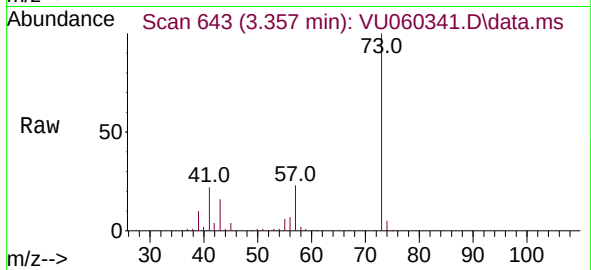




#25
Methyl tert-Butyl Ether
Concen: 3.397 ug/l
RT: 3.357 min Scan# 644
Delta R.T. -0.003 min
Lab File: VU060341.D
Acq: 07 Aug 2024 17:12

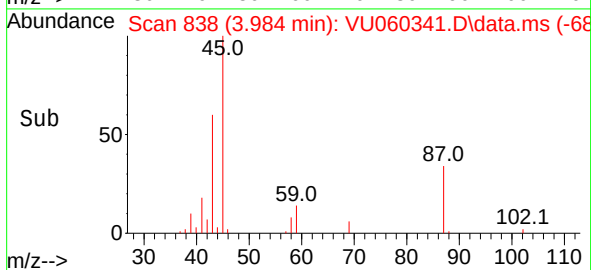
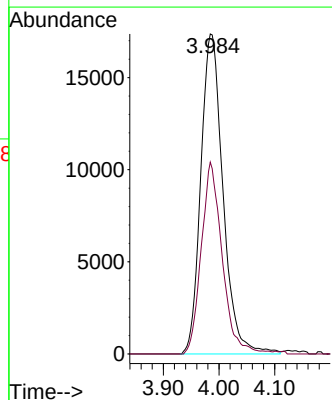
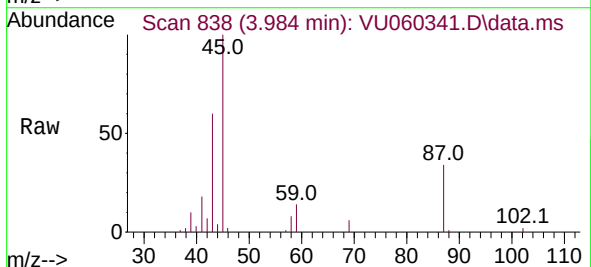
Instrument :
MSVOA_U
ClientSampleId :

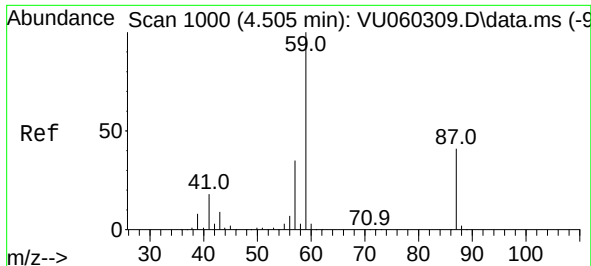
Tgt Ion: 73 Resp: 81613
Ion Ratio Lower Upper
73 100
43 17.1 14.1 21.1



#31
Isopropyl Ether
Concen: 1.635 ug/l
RT: 3.984 min Scan# 838
Delta R.T. -0.010 min
Lab File: VU060341.D
Acq: 07 Aug 2024 17:12

Tgt Ion: 45 Resp: 48189
Ion Ratio Lower Upper
45 100
43 56.1 24.7 74.1





#32

Ethyl-t-butyl ether

Concen: 8.194 ug/l

RT: 4.496 min Scan# 90

Delta R.T. -0.010 min

Lab File: VU060341.D

Acq: 07 Aug 2024 17:12

Instrument :

MSVOA_U

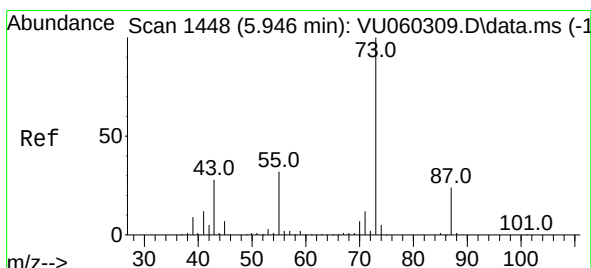
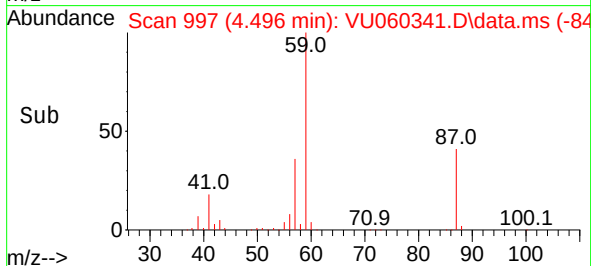
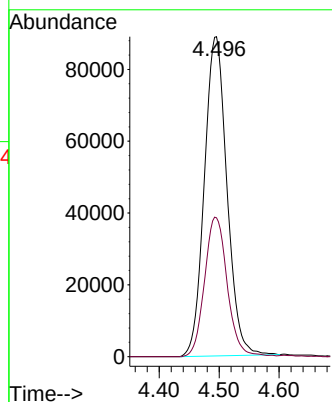
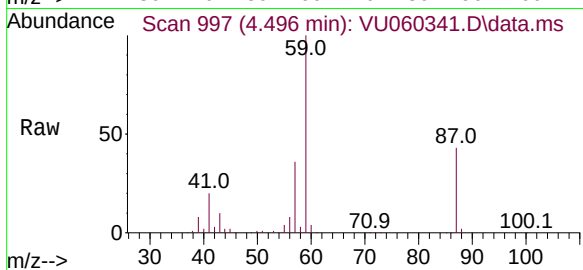
ClientSampleId :

Tgt Ion: 59 Resp: 233394

Ion Ratio Lower Upper

59 100

87 43.1 32.6 49.0



#33

Tert-Amyl methyl ether

Concen: 8.501 ug/l

RT: 5.933 min Scan# 1444

Delta R.T. -0.013 min

Lab File: VU060341.D

Acq: 07 Aug 2024 17:12

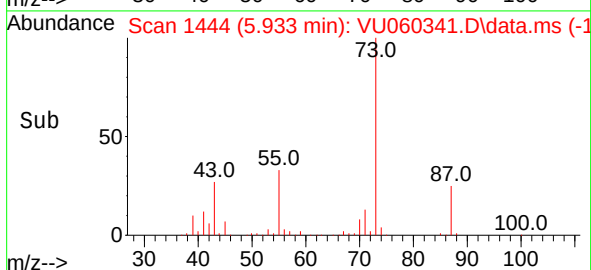
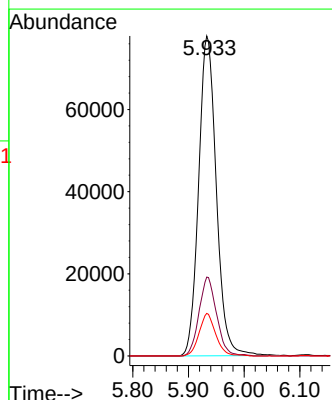
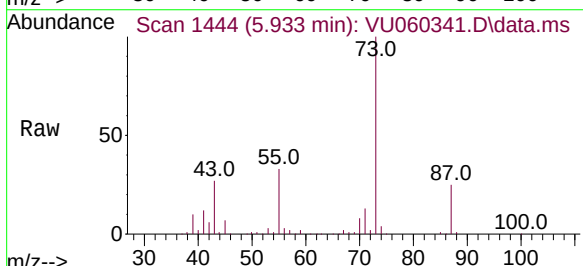
Tgt Ion: 73 Resp: 171878

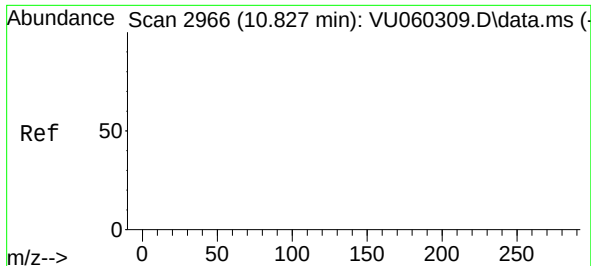
Ion Ratio Lower Upper

73 100

87 23.8 19.6 29.4

71 12.5 9.5 14.3





#46

t-1,4-Dichloro-2-butene

Concen: 0.234 ug/l

RT: 10.907 min Scan# 2991

Delta R.T. 0.080 min

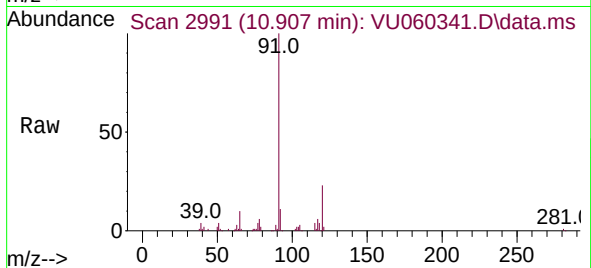
Lab File: VU060341.D

Acq: 07 Aug 2024 17:12

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion: 75 Resp: 682

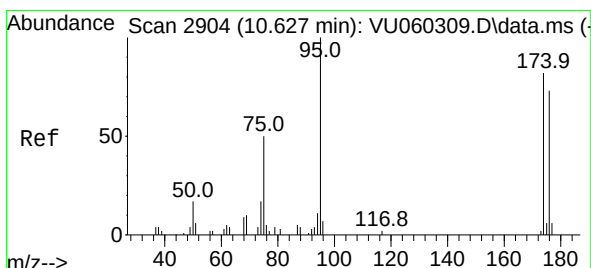
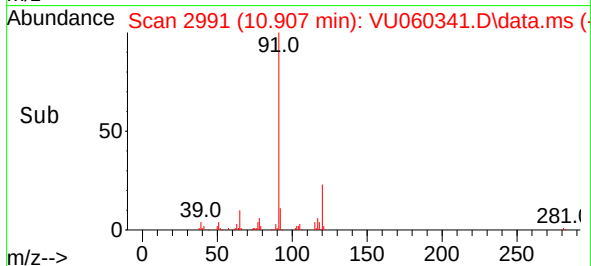
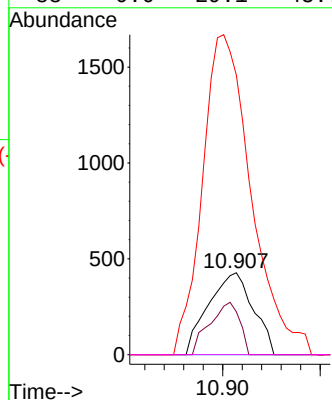
Ion Ratio Lower Upper

75 100

53 42.8 57.2 85.8#

89 425.8 40.4 60.6#

88 0.0 29.1 43.7#



#57

4-Bromofluorobenzene

Concen: 0.739 ug/l

RT: 10.634 min Scan# 2906

Delta R.T. 0.006 min

Lab File: VU060341.D

Acq: 07 Aug 2024 17:12

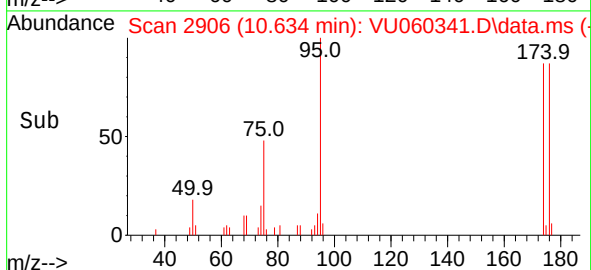
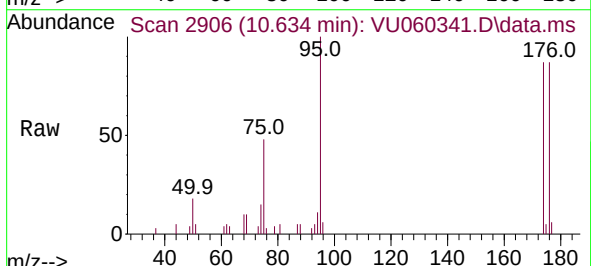
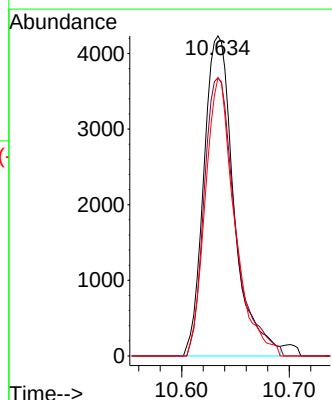
Tgt Ion: 95 Resp: 8247

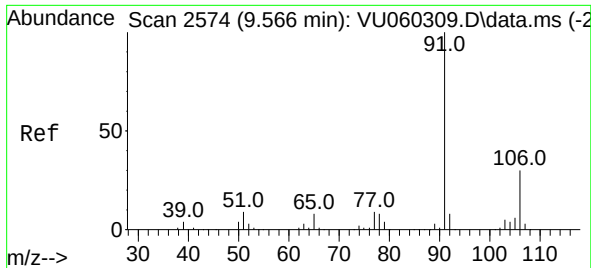
Ion Ratio Lower Upper

95 100

174 89.2 65.6 98.4

176 84.3 60.4 90.6





#63

Ethyl Benzene

Concen: 0.508 ug/l

RT: 9.576 min Scan# 2574

Delta R.T. 0.010 min

Lab File: VU060341.D

Acq: 07 Aug 2024 17:12

Instrument :

MSVOA_U

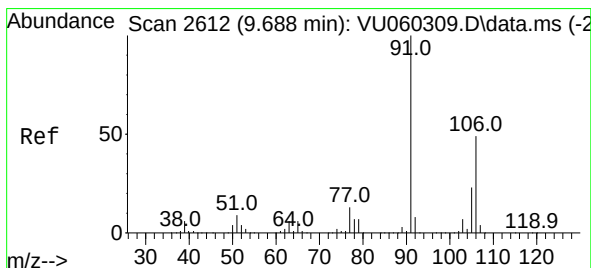
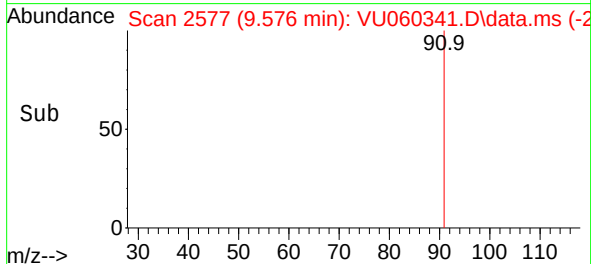
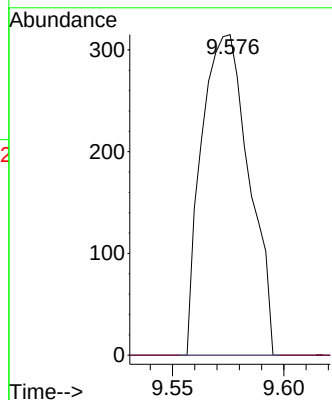
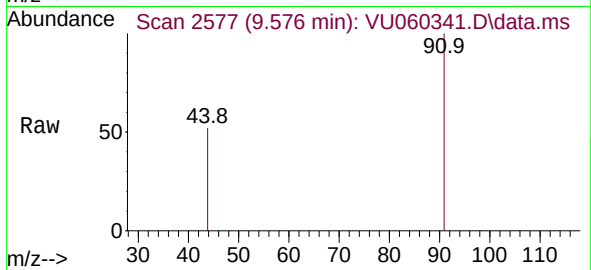
ClientSampleId :

Tgt Ion: 91 Resp: 466

Ion Ratio Lower Upper

91 100

106 0.0 24.4 36.6#



#64

m/p-Xylenes

Concen: 0.899 ug/l

RT: 9.704 min Scan# 2617

Delta R.T. 0.016 min

Lab File: VU060341.D

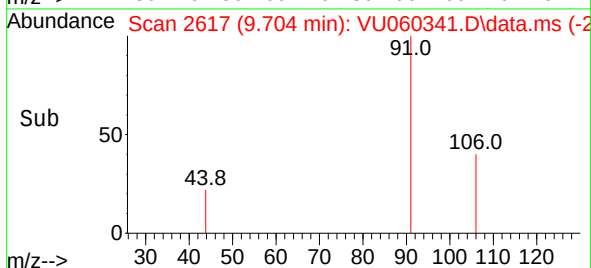
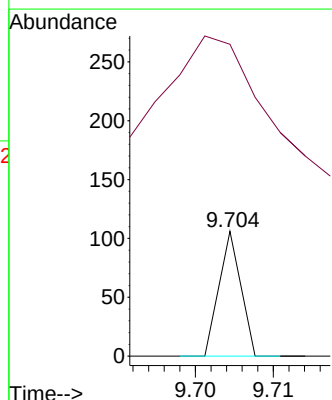
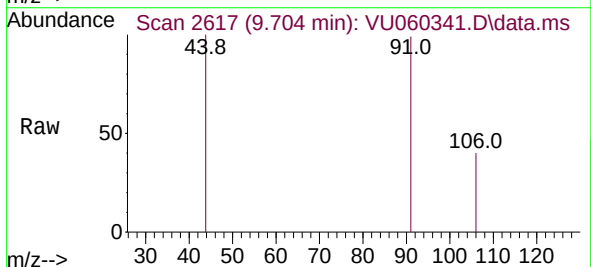
Acq: 07 Aug 2024 17:12

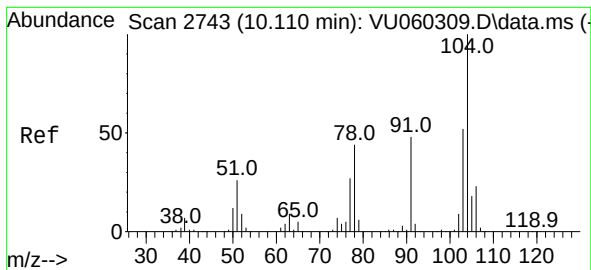
Tgt Ion:106 Resp: 20

Ion Ratio Lower Upper

106 100

91 2310.0 165.0 247.4#





#66

Styrene

Concen: 0.471 ug/l

RT: 10.145 min Scan# 21

Delta R.T. 0.035 min

Lab File: VU060341.D

Acq: 07 Aug 2024 17:12

Instrument :

MSVOA_U

ClientSampleId :

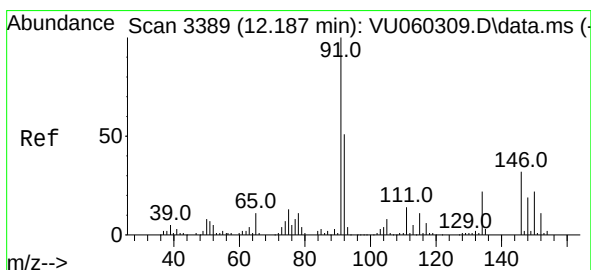
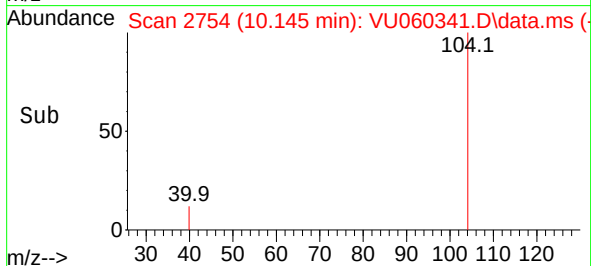
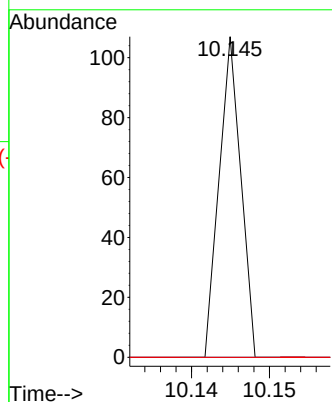
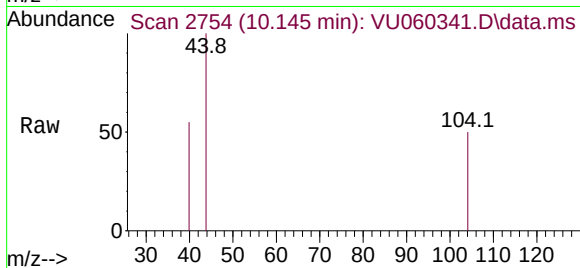
Tgt Ion:104 Resp: 21

Ion Ratio Lower Upper

104 100

78 104.8 39.0 58.6#

103 0.0 45.0 67.6#



#68

1,2-Dichlorobenzene-d4

Concen: 0.834 ug/l

RT: 12.193 min Scan# 3391

Delta R.T. 0.006 min

Lab File: VU060341.D

Acq: 07 Aug 2024 17:12

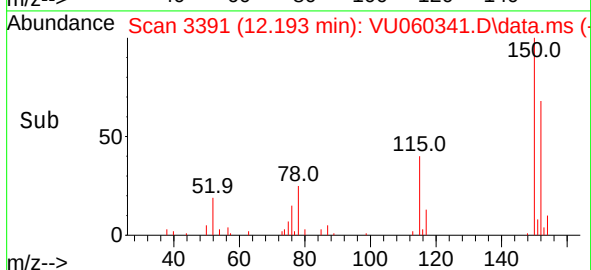
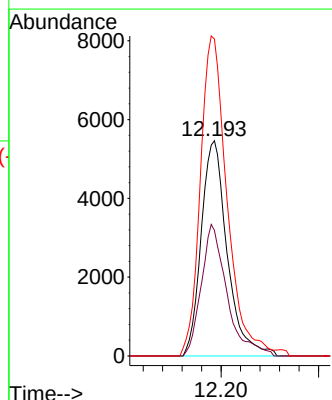
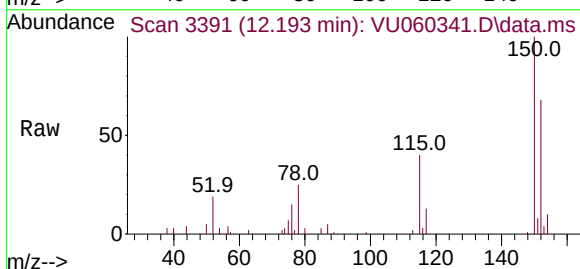
Tgt Ion:152 Resp: 10110

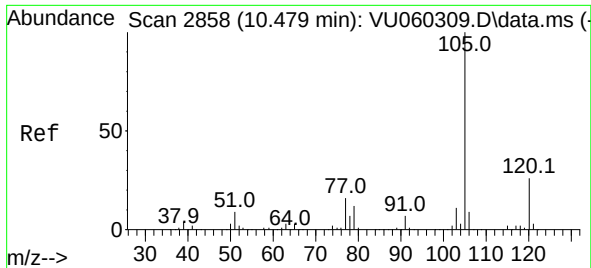
Ion Ratio Lower Upper

152 100

115 60.4 0.0 325.2

150 152.5 0.0 684.2

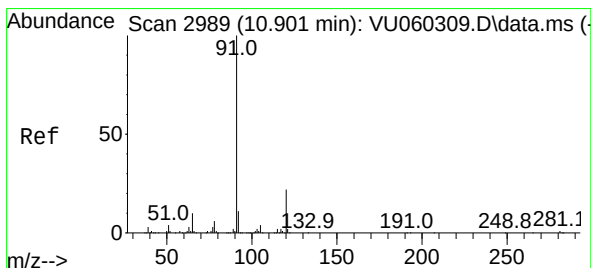
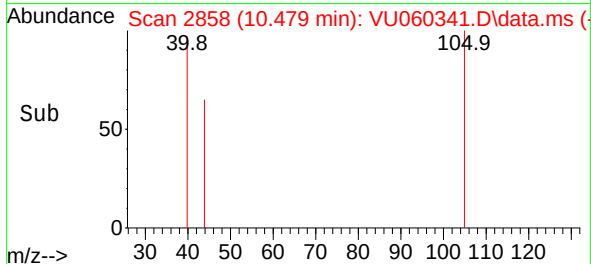
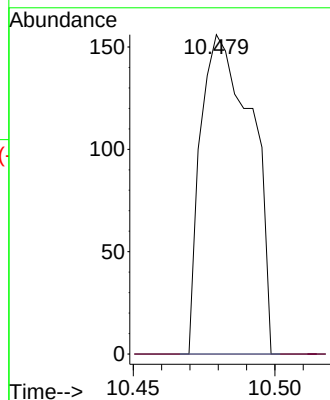
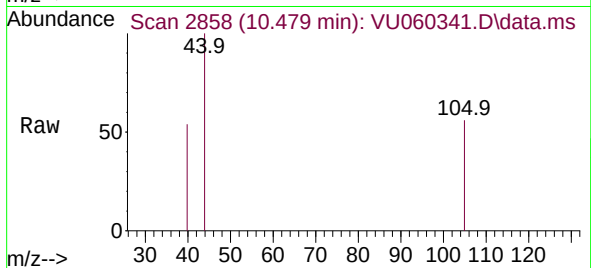




#69
Isopropylbenzene
Concen: 0.479 ug/l
RT: 10.479 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU060341.D
Acq: 07 Aug 2024 17:12

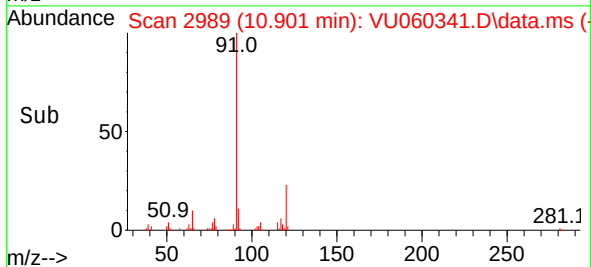
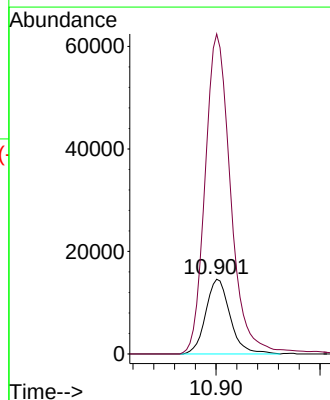
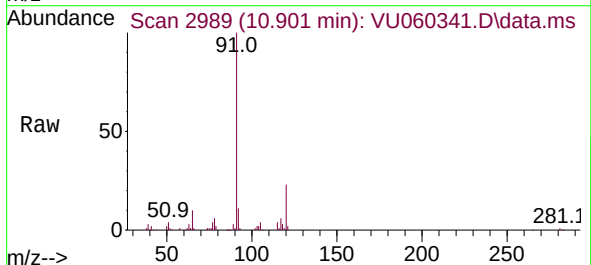
Instrument :
MSVOA_U
ClientSampleId :

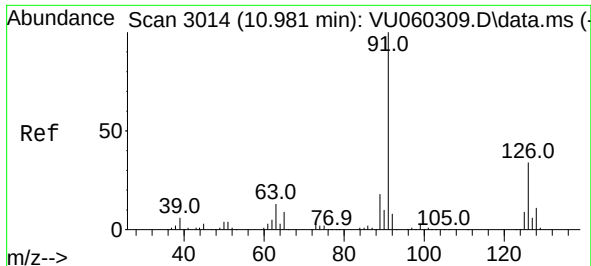
Tgt Ion:105 Resp: 194
Ion Ratio Lower Upper
105 100
120 0.0 13.0 39.0#



#73
n-propylbenzene
Concen: 2.202 ug/l
RT: 10.901 min Scan# 2989
Delta R.T. -0.000 min
Lab File: VU060341.D
Acq: 07 Aug 2024 17:12

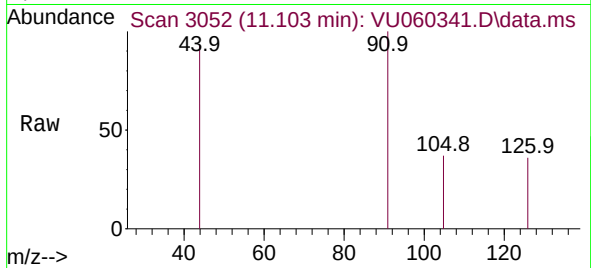
Tgt Ion:120 Resp: 23691
Ion Ratio Lower Upper
120 100
91 451.5 362.2 543.2



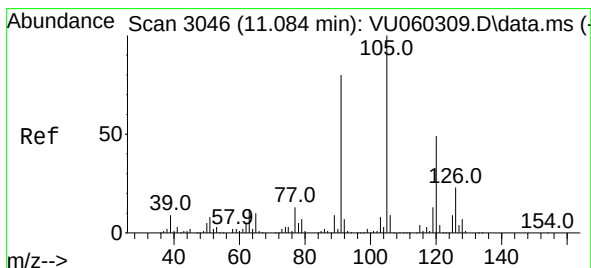
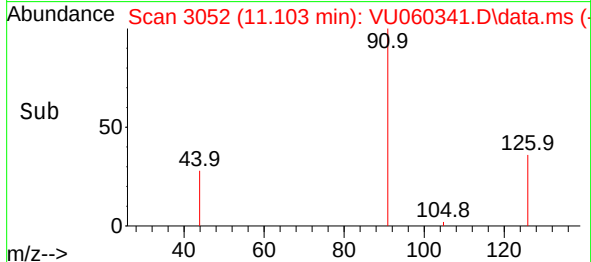
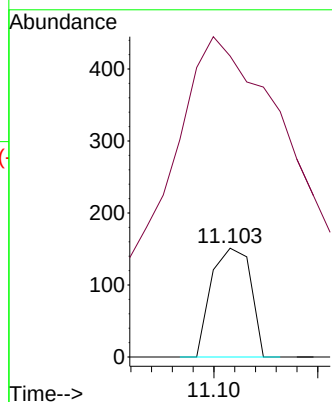


#74
2-Chlorotoluene
Concen: 0.322 ug/l
RT: 11.103 min Scan# 3052
Delta R.T. 0.122 min
Lab File: VU060341.D
Acq: 07 Aug 2024 17:12

Instrument :
MSVOA_U
ClientSampleId :

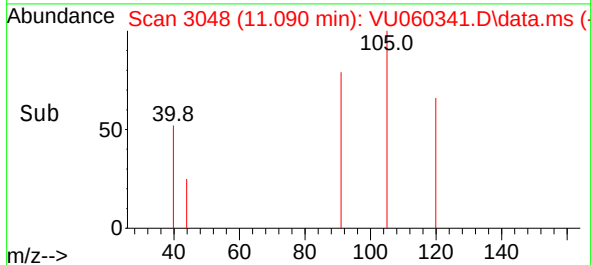
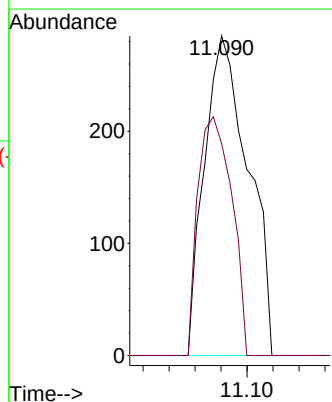
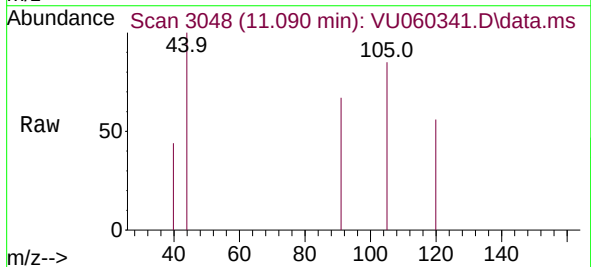


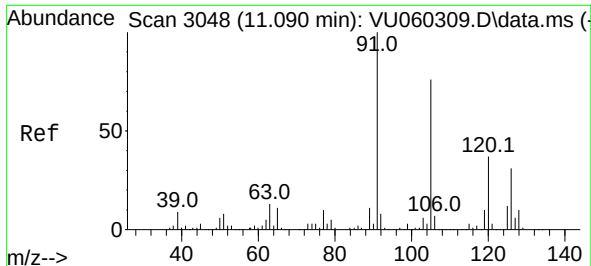
Tgt Ion:126 Resp: 79
Ion Ratio Lower Upper
126 100
91 135398.7 0.0 585.6#



#75
1,3,5-Trimethylbenzene
Concen: 0.465 ug/l
RT: 11.090 min Scan# 3048
Delta R.T. 0.006 min
Lab File: VU060341.D
Acq: 07 Aug 2024 17:12

Tgt Ion:105 Resp: 333
Ion Ratio Lower Upper
105 100
120 0.0 38.6 57.8#

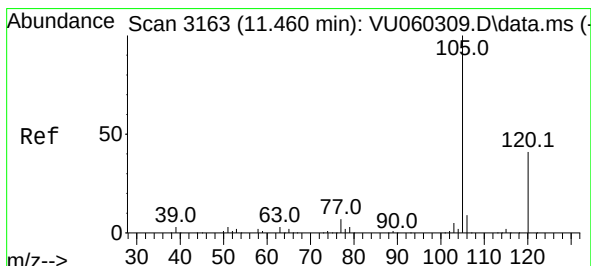
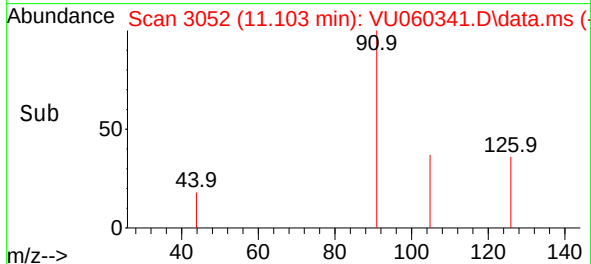
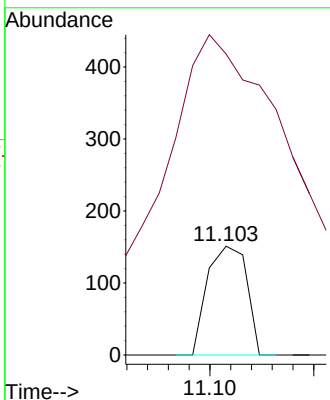
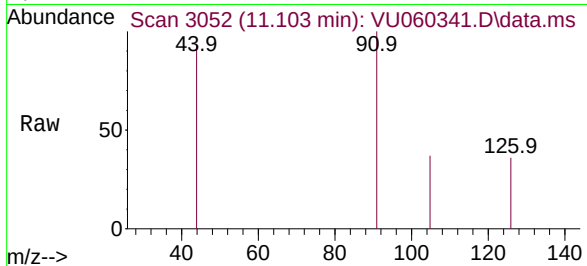




#76
4-Chlorotoluene
Concen: 0.343 ug/l
RT: 11.103 min Scan# 3048
Delta R.T. 0.013 min
Lab File: VU060341.D
Acq: 07 Aug 2024 17:12

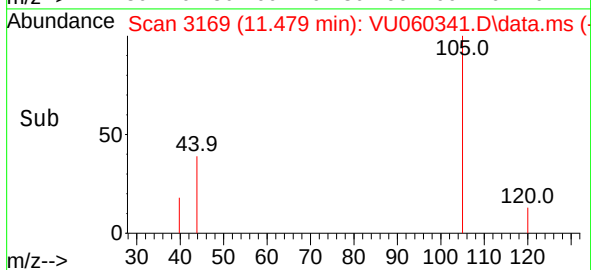
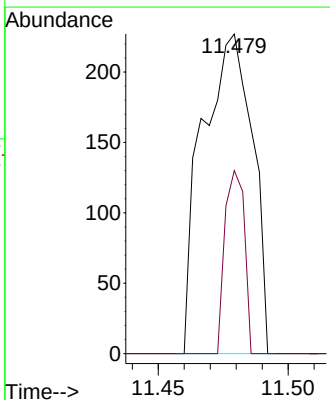
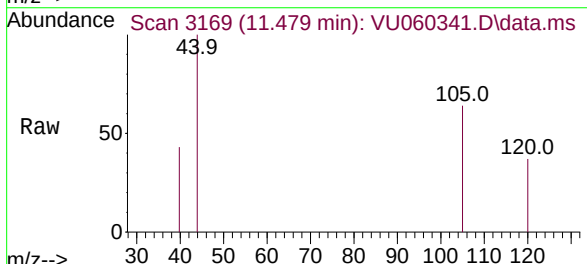
Instrument :
MSVOA_U
ClientSampleId :

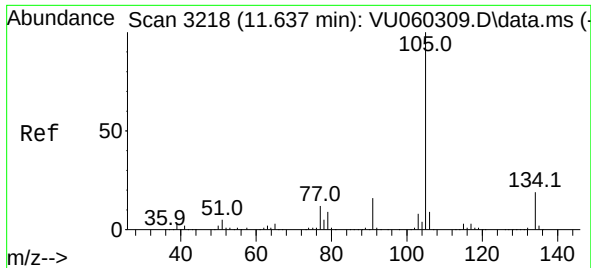
Tgt Ion:126 Resp: 79
Ion Ratio Lower Upper
126 100
91 135398.7 0.0 669.4#



#78
1,2,4-Trimethylbenzene
Concen: 0.503 ug/l
RT: 11.479 min Scan# 3169
Delta R.T. 0.019 min
Lab File: VU060341.D
Acq: 07 Aug 2024 17:12

Tgt Ion:105 Resp: 304
Ion Ratio Lower Upper
105 100
120 22.4 22.6 67.7#





#79

sec-Butylbenzene

Concen: 0.463 ug/l

RT: 11.646 min Scan# 3221

Delta R.T. 0.009 min

Lab File: VU060341.D

Acq: 07 Aug 2024 17:12

Instrument :

MSVOA_U

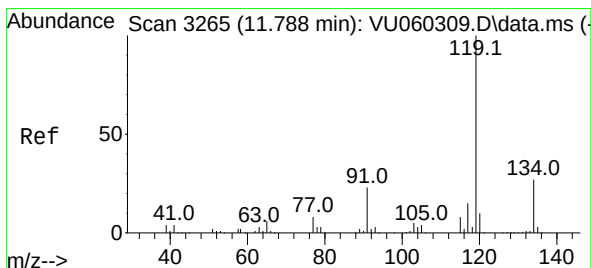
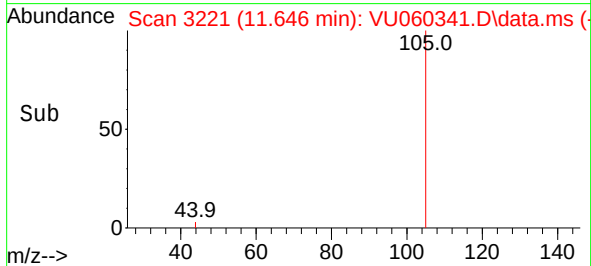
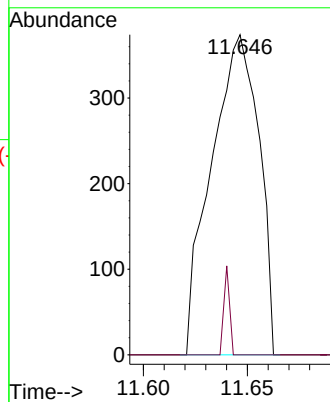
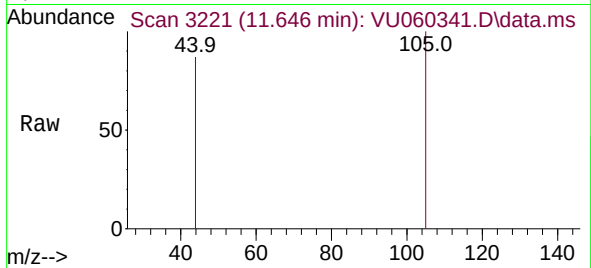
ClientSampleId :

Tgt Ion:105 Resp: 595

Ion Ratio Lower Upper

105 100

134 3.4 15.5 23.3#



#81

p-Isopropyltoluene

Concen: 0.528 ug/l

RT: 11.791 min Scan# 3266

Delta R.T. 0.003 min

Lab File: VU060341.D

Acq: 07 Aug 2024 17:12

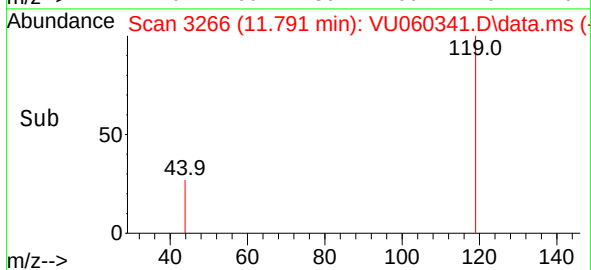
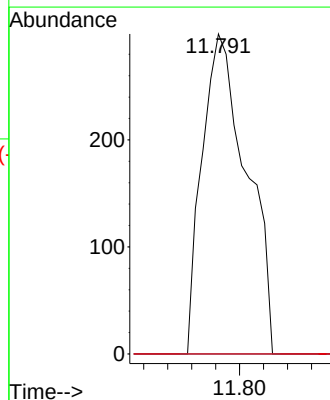
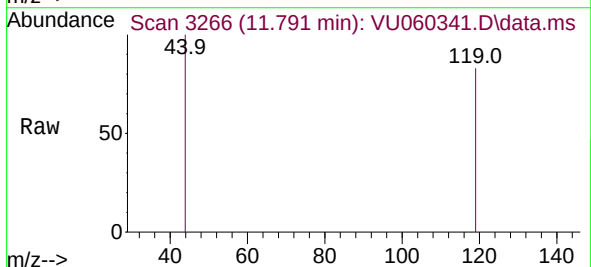
Tgt Ion:119 Resp: 385

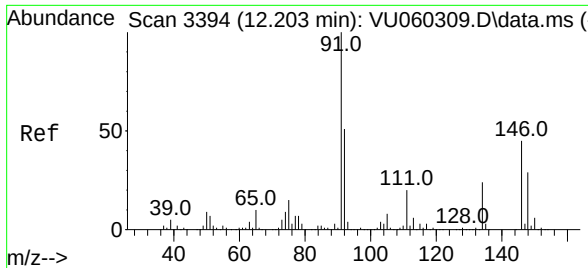
Ion Ratio Lower Upper

119 100

134 5.2 21.2 31.8#

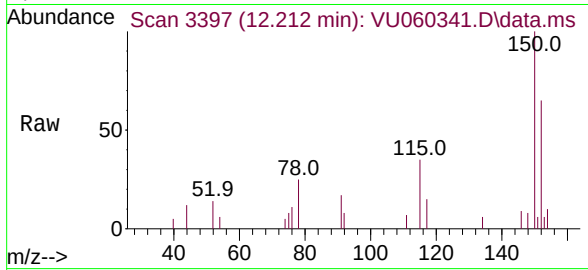
91 0.0 18.9 28.3#





#84
 n-Butylbenzene
 Concen: 0.519 ug/l
 RT: 12.212 min Scan# 3397
 Delta R.T. 0.009 min
 Lab File: VU060341.D
 Acq: 07 Aug 2024 17:12

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion: 91	Resp:	392
Ion	Ratio	Lower Upper
91	100	
92	50.5	41.0 61.6
134	34.9	19.4 29.2#

