

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU080724\
 Data File : VU060334.D
 Acq On : 07 Aug 2024 14:02
 Operator : MD/SY
 Sample : P3204-09DL 5X
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Aug 08 05:57:03 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)

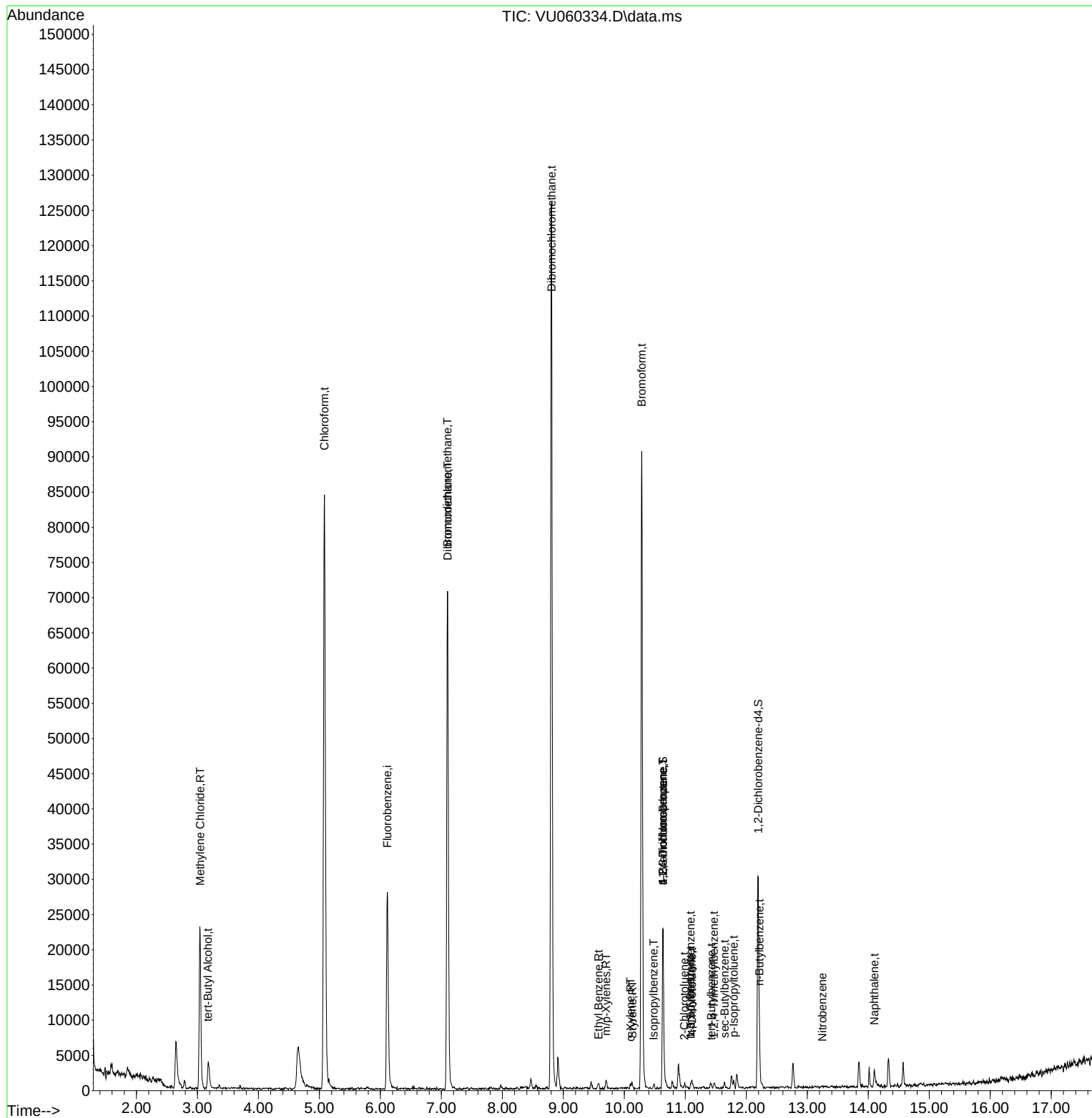
Internal Standards						
1) Fluorobenzene	6.113	96	28871	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.631	95	8391	0.853	ug/l	0.00
Spiked Amount 1.000			Recovery	=	85.000%	
68) 1,2-Dichlorobenzene-d4	12.193	152	9391	0.879	ug/l	0.00
Spiked Amount 1.000			Recovery	=	88.000%	
Target Compounds						
					Qvalue	
15) Methylene Chloride	3.043	84	12242	1.133	ug/l	91
24) tert-Butyl Alcohol	3.171	59	2420	2.762	ug/l #	83
27) Chloroform	5.081	83	80704	4.638	ug/l	97
43) Dibromomethane	7.103	93	1286	0.263	ug/l #	5
44) Bromodichloromethane	7.100	83	51036	4.353	ug/l	100
46) t-1,4-Dichloro-2-butene	10.631	75	4270	1.662	ug/l #	26
55) Dibromochloromethane	8.804	129	71183	9.053	ug/l	99
63) Ethyl Benzene	9.576	91	691	0.515	ug/l #	63
64) m/p-Xylenes	9.701	106	454	0.924	ug/l	78
65) o-Xylene	10.100	106	216	0.456	ug/l	99
66) Styrene	10.129	104	462	0.487	ug/l #	67
67) Bromoform	10.283	173	44809	9.730	ug/l	99
69) Isopropylbenzene	10.480	105	650	0.490	ug/l	84
71) 1,2,3-Trichloropropane	10.631	75	4270	0.604	ug/l #	46
73) n-propylbenzene	11.087	120	220	0.506	ug/l	71
74) 2-Chlorotoluene	10.984	126	155	0.330	ug/l	6
75) 1,3,5-Trimethylbenzene	11.087	105	539	0.471	ug/l	89
76) 4-Chlorotoluene	11.107	126	190	0.354	ug/l	1
77) tert-Butylbenzene	11.425	119	479	0.459	ug/l #	40
78) 1,2,4-Trimethylbenzene	11.470	105	986	0.522	ug/l #	62
79) sec-Butylbenzene	11.643	105	900	0.471	ug/l #	84
80) Nitrobenzene	13.248	77	85	0.203	ug/l #	39
81) p-Isopropyltoluene	11.795	119	957	0.543	ug/l #	79
84) n-Butylbenzene	12.216	91	1650	0.552	ug/l #	90
89) Naphthalene	14.097	128	3747	0.209	ug/l #	79

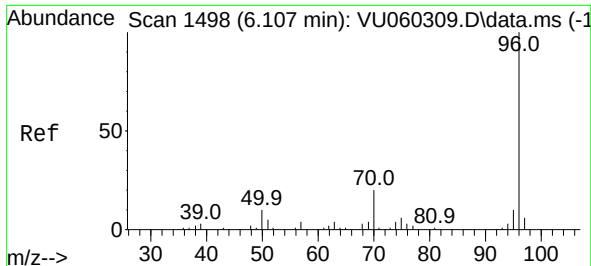
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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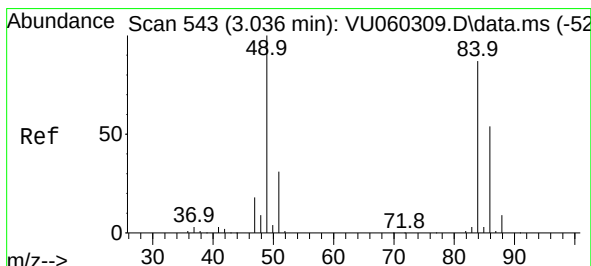
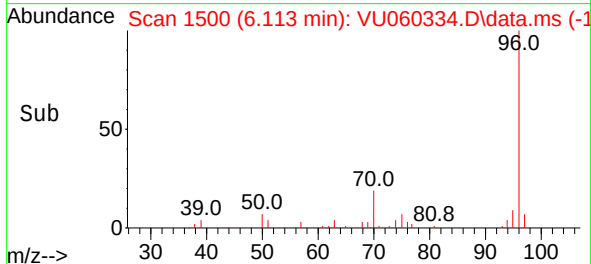
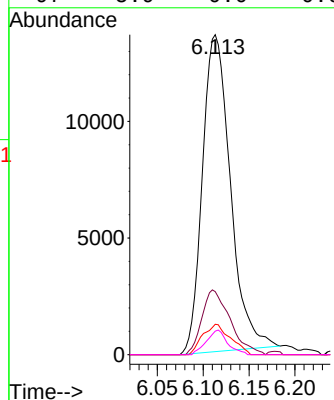
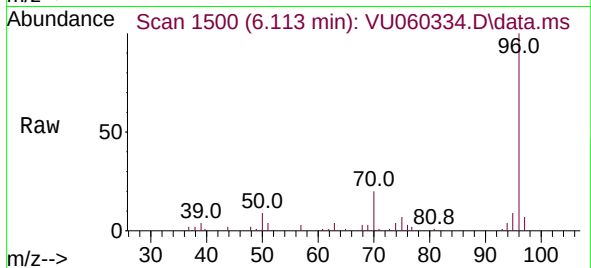


#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.113 min Scan# 1498
Delta R.T. 0.006 min
Lab File: VU060334.D
Acq: 07 Aug 2024 14:02

Instrument :
MSVOA_U
ClientSampleId :

Tgt Ion: 96 Resp: 28871

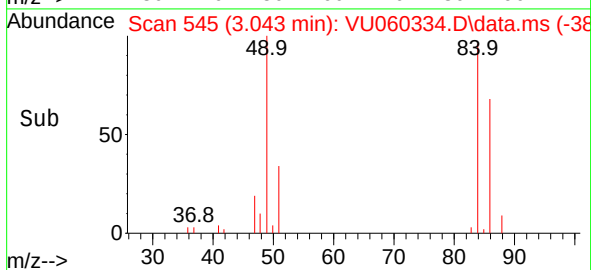
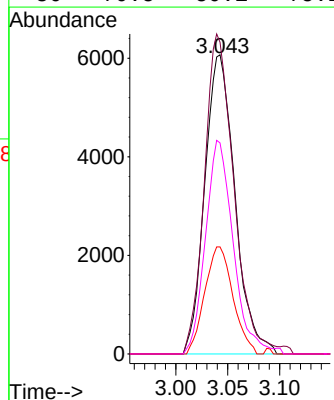
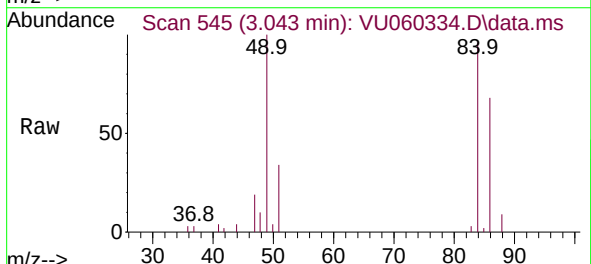
Ion	Ratio	Lower	Upper
96	100		
70	20.6	17.2	25.8
95	9.5	7.9	11.9
97	5.9	0.0	0.0

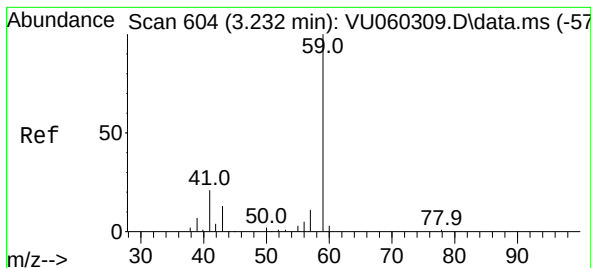


#15
Methylene Chloride
Concen: 1.133 ug/l
RT: 3.043 min Scan# 545
Delta R.T. 0.007 min
Lab File: VU060334.D
Acq: 07 Aug 2024 14:02

Tgt Ion: 84 Resp: 12242

Ion	Ratio	Lower	Upper
84	100		
49	104.2	92.1	138.1
51	35.8	0.0	72.4
86	70.5	50.1	75.1





#24

tert-Butyl Alcohol

Concen: 2.762 ug/l

RT: 3.171 min Scan# 51

Delta R.T. -0.061 min

Lab File: VU060334.D

Acq: 07 Aug 2024 14:02

Instrument :

MSVOA_U

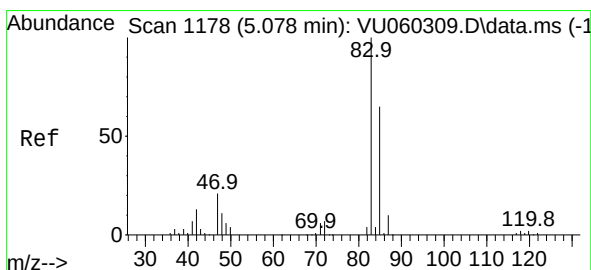
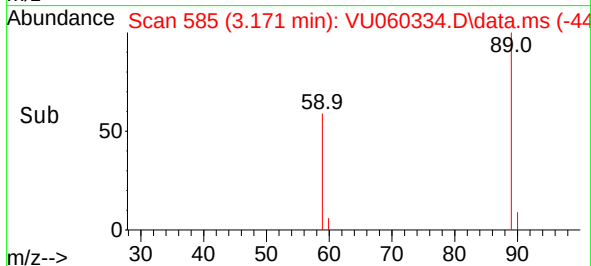
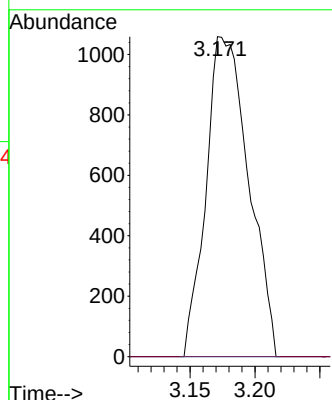
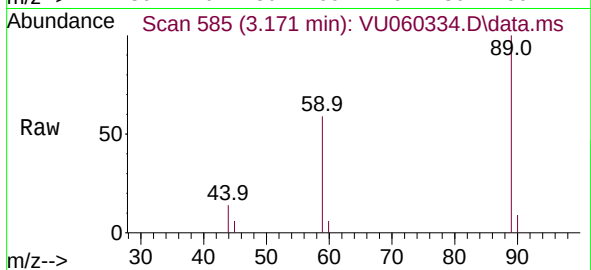
ClientSampleId :

Tgt Ion: 59 Resp: 2420

Ion Ratio Lower Upper

59 100

57 0.0 4.5 6.7#



#27

Chloroform

Concen: 4.638 ug/l

RT: 5.081 min Scan# 1179

Delta R.T. 0.003 min

Lab File: VU060334.D

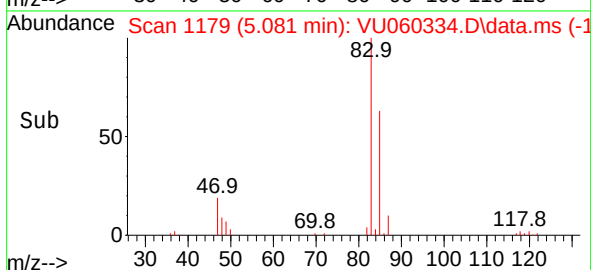
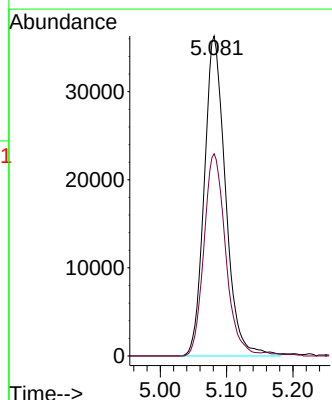
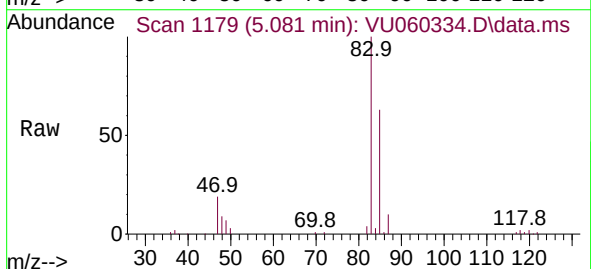
Acq: 07 Aug 2024 14:02

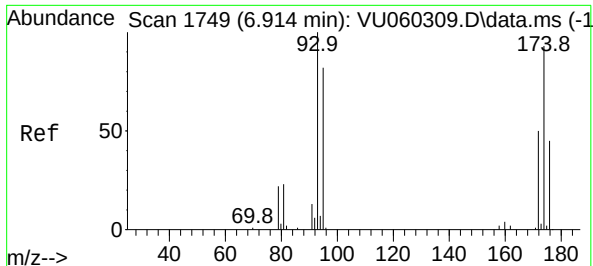
Tgt Ion: 83 Resp: 80704

Ion Ratio Lower Upper

83 100

85 63.2 0.0 131.0





#43

Dibromomethane

Concen: 0.263 ug/l

RT: 7.103 min Scan# 1

Delta R.T. 0.190 min

Lab File: VU060334.D

Acq: 07 Aug 2024 14:02

Instrument :

MSVOA_U

ClientSampleId :

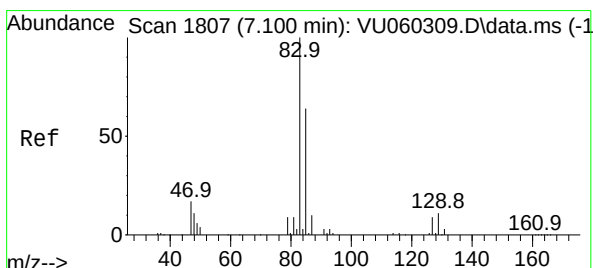
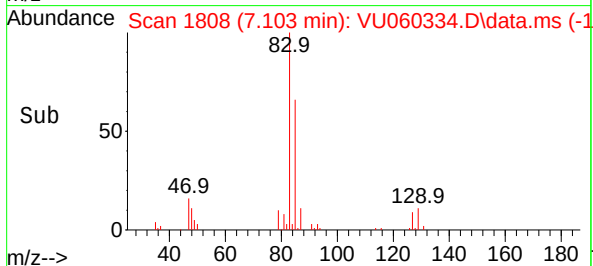
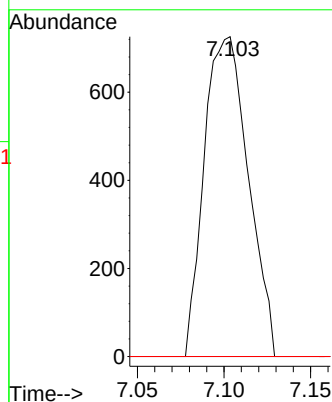
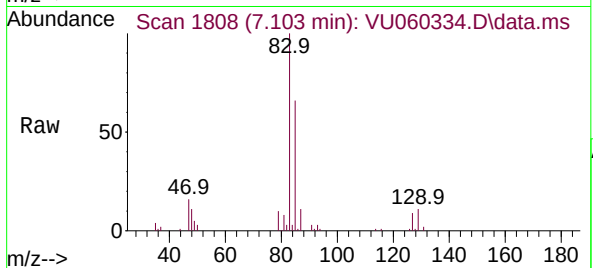
Tgt Ion: 93 Resp: 1286

Ion Ratio Lower Upper

93 100

95 0.0 66.4 99.6#

174 0.0 75.2 112.8#



#44

Bromodichloromethane

Concen: 4.353 ug/l

RT: 7.100 min Scan# 1807

Delta R.T. 0.000 min

Lab File: VU060334.D

Acq: 07 Aug 2024 14:02

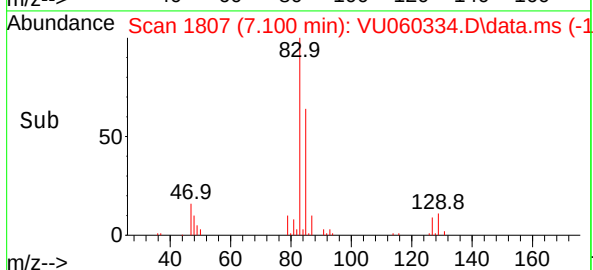
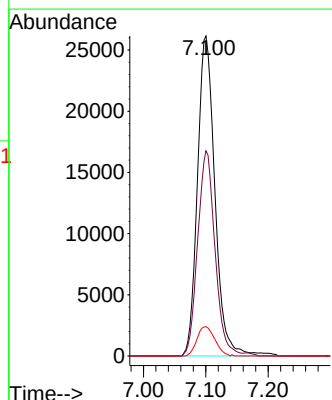
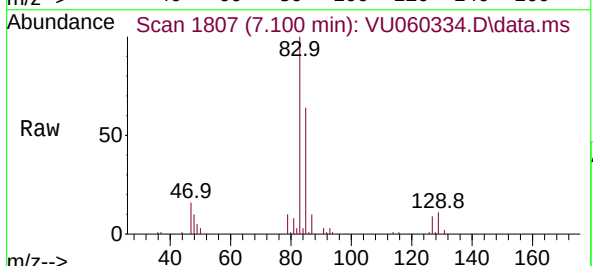
Tgt Ion: 83 Resp: 51036

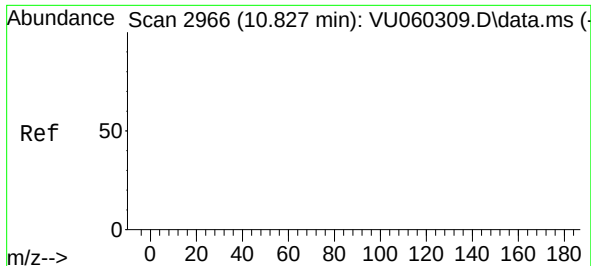
Ion Ratio Lower Upper

83 100

85 64.1 51.3 76.9

127 9.2 6.8 10.2





#46

t-1,4-Dichloro-2-butene

Concen: 1.662 ug/l

RT: 10.631 min Scan# 2966

Delta R.T. -0.196 min

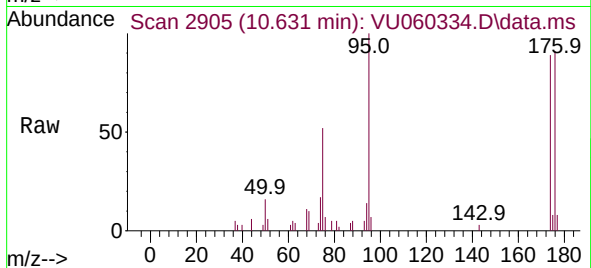
Lab File: VU060334.D

Acq: 07 Aug 2024 14:02

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion: 75 Resp: 4270

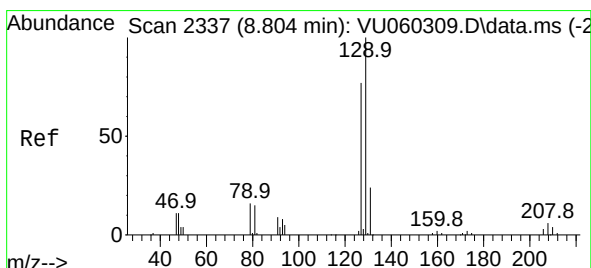
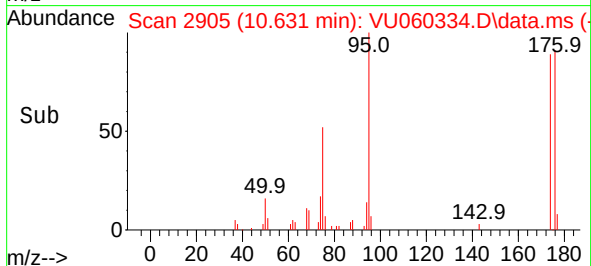
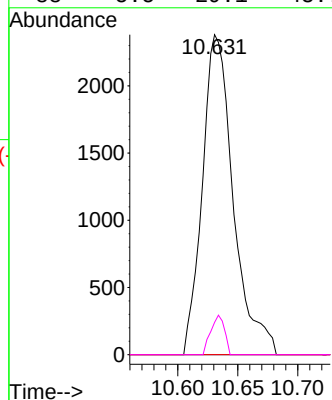
Ion Ratio Lower Upper

75 100

53 0.0 57.2 85.8#

89 0.0 40.4 60.6#

88 5.5 29.1 43.7#



#55

Dibromochloromethane

Concen: 9.053 ug/l

RT: 8.804 min Scan# 2337

Delta R.T. 0.000 min

Lab File: VU060334.D

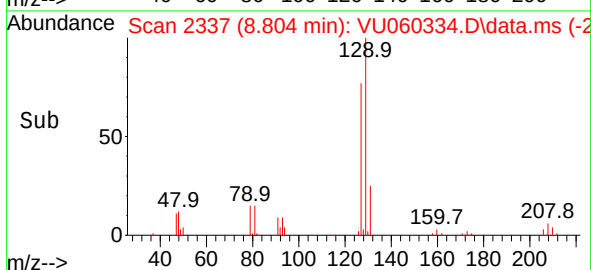
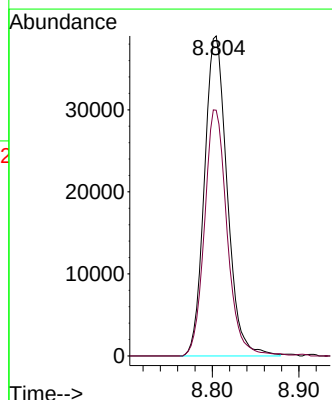
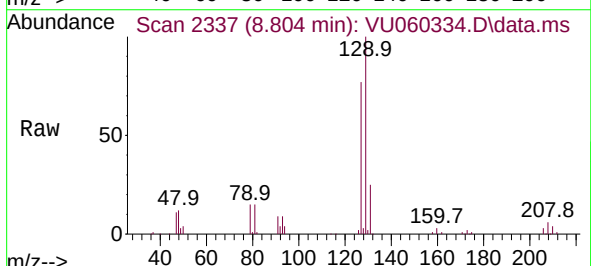
Acq: 07 Aug 2024 14:02

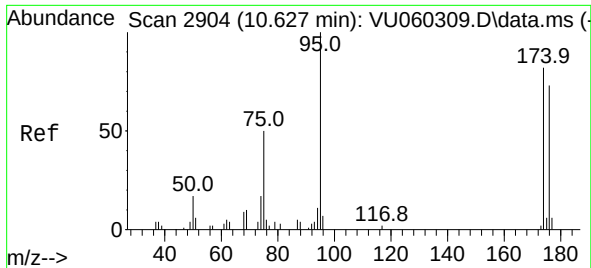
Tgt Ion:129 Resp: 71183

Ion Ratio Lower Upper

129 100

127 76.4 61.6 92.4

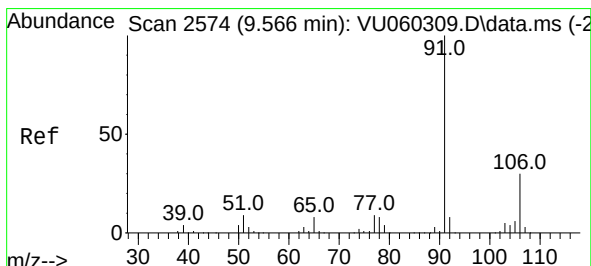
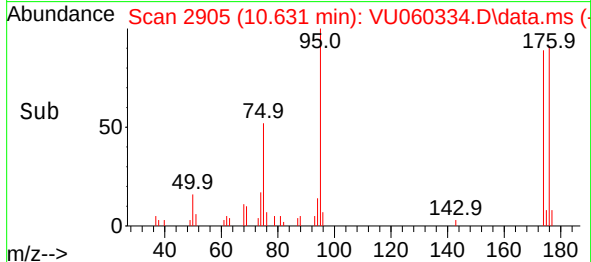
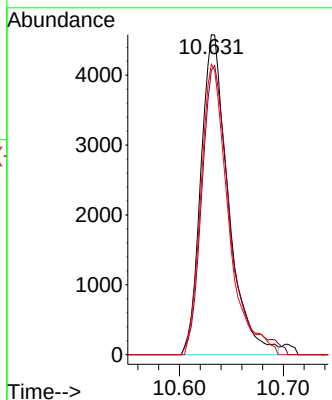
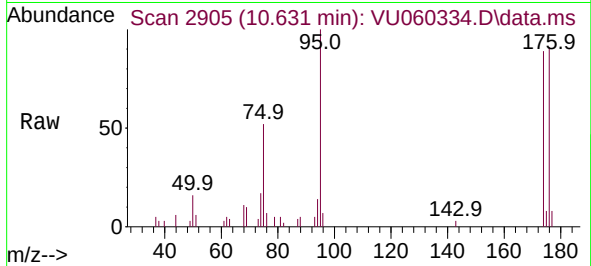




#57
 4-Bromofluorobenzene
 Concen: 0.853 ug/l
 RT: 10.631 min Scan# 2905
 Delta R.T. 0.003 min
 Lab File: VU060334.D
 Acq: 07 Aug 2024 14:02

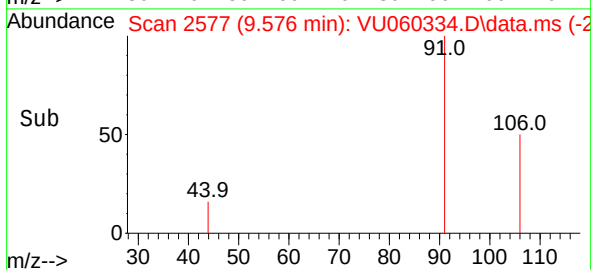
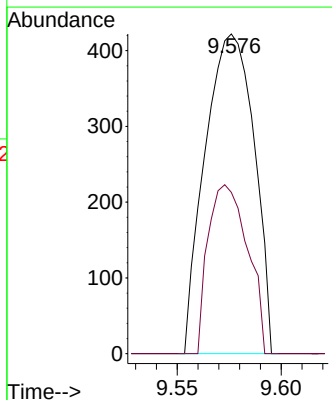
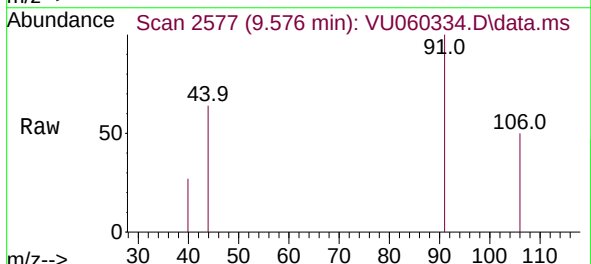
Instrument :
 MSVOA_U
 ClientSampleId :

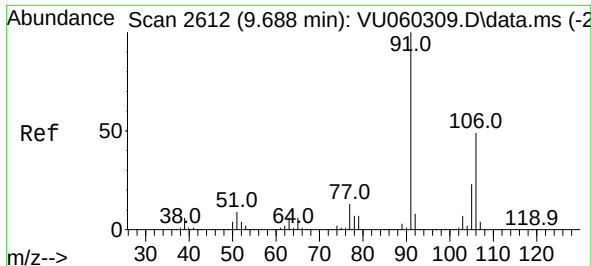
Tgt Ion: 95	Resp: 8391
Ion Ratio	Lower Upper
95	100
174	93.1 65.6 98.4
176	90.5 60.4 90.6



#63
 Ethyl Benzene
 Concen: 0.515 ug/l
 RT: 9.576 min Scan# 2577
 Delta R.T. 0.010 min
 Lab File: VU060334.D
 Acq: 07 Aug 2024 14:02

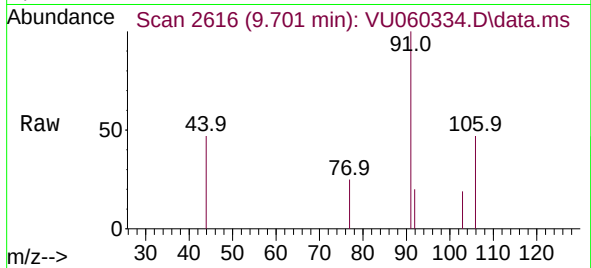
Tgt Ion: 91	Resp: 691
Ion Ratio	Lower Upper
91	100
106	50.5 24.4 36.6



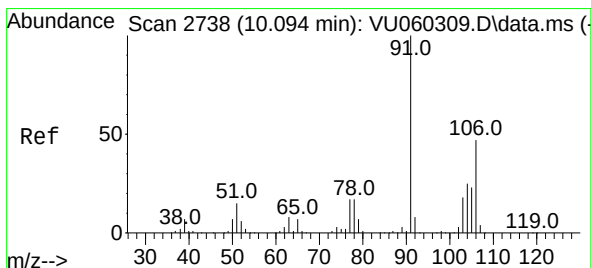
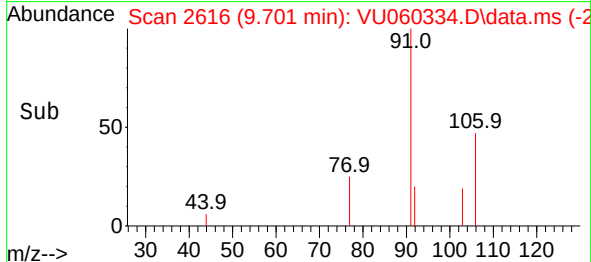
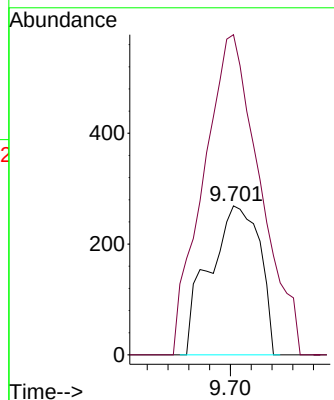


#64
m/p-Xylenes
Concen: 0.924 ug/l
RT: 9.701 min Scan# 20
Delta R.T. 0.013 min
Lab File: VU060334.D
Acq: 07 Aug 2024 14:02

Instrument :
MSVOA_U
ClientSampleId :

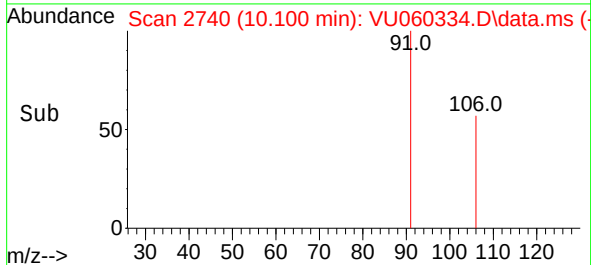
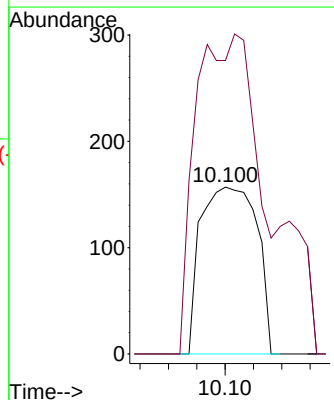
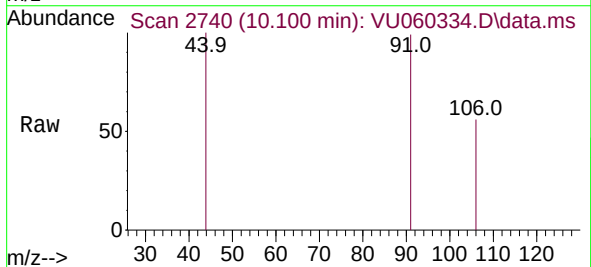


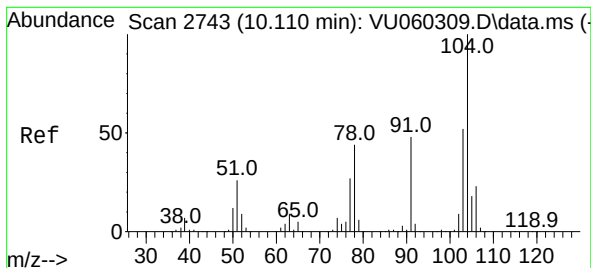
Tgt Ion:106 Resp: 454
Ion Ratio Lower Upper
106 100
91 239.9 165.0 247.4



#65
o-Xylene
Concen: 0.456 ug/l
RT: 10.100 min Scan# 2740
Delta R.T. 0.006 min
Lab File: VU060334.D
Acq: 07 Aug 2024 14:02

Tgt Ion:106 Resp: 216
Ion Ratio Lower Upper
106 100
91 218.5 108.8 326.4





#66

Styrene

Concen: 0.487 ug/l

RT: 10.129 min Scan# 2749

Delta R.T. 0.019 min

Lab File: VU060334.D

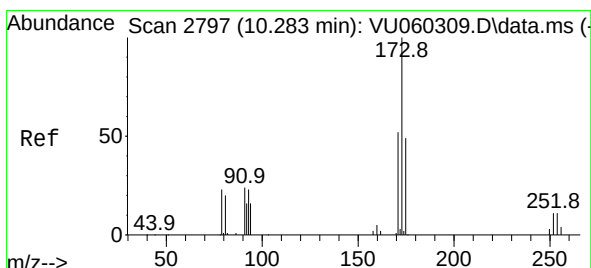
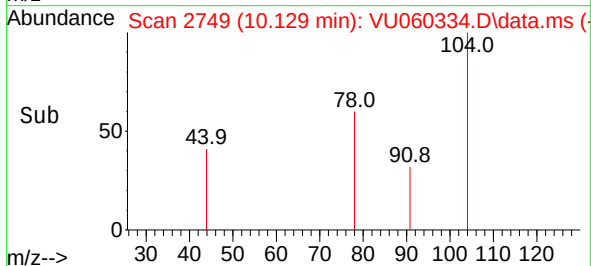
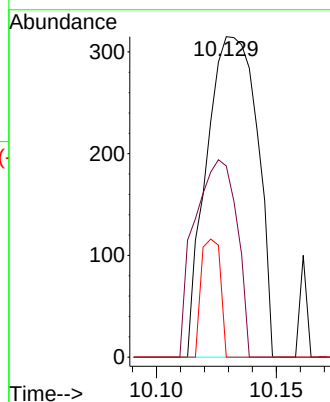
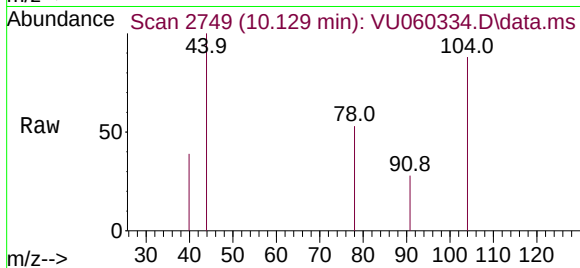
Acq: 07 Aug 2024 14:02

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:	104	Resp:	462
Ion Ratio	Lower	Upper	
104	100		
78	51.3	39.0	58.6
103	13.9	45.0	67.6#



#67

Bromoform

Concen: 9.730 ug/l

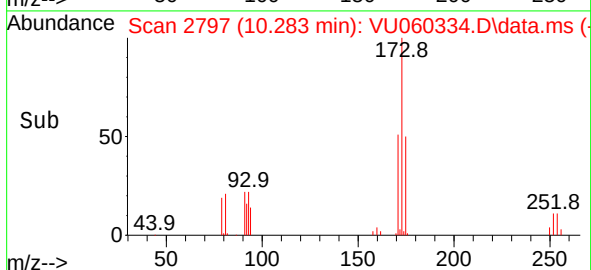
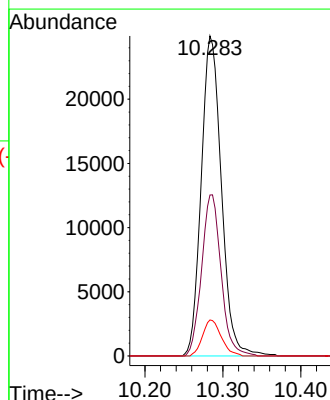
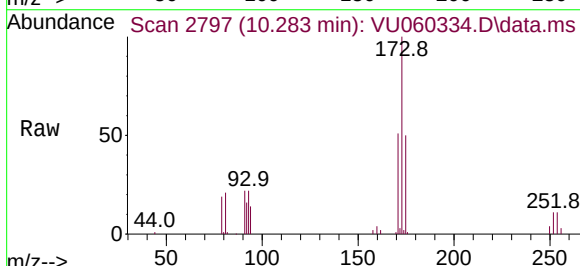
RT: 10.283 min Scan# 2797

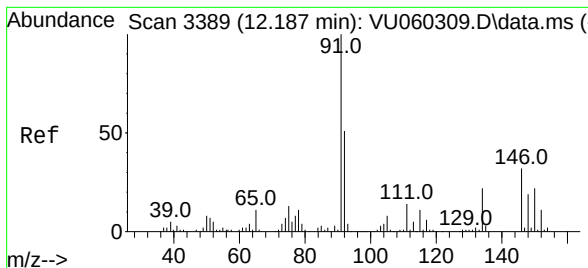
Delta R.T. 0.000 min

Lab File: VU060334.D

Acq: 07 Aug 2024 14:02

Tgt Ion:	173	Resp:	44809
Ion Ratio	Lower	Upper	
173	100		
175	48.6	39.7	59.5
254	10.5	8.2	12.4





#68

1,2-Dichlorobenzene-d4

Concen: 0.879 ug/l

RT: 12.193 min Scan# 3389

Delta R.T. 0.007 min

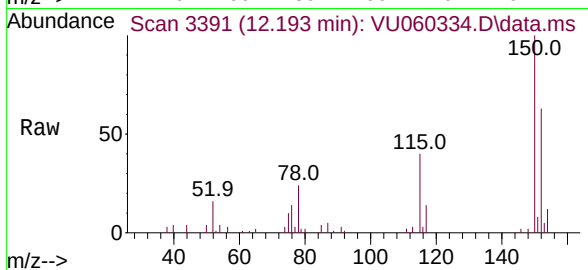
Lab File: VU060334.D

Acq: 07 Aug 2024 14:02

Instrument :

MSVOA_U

ClientSampleId :



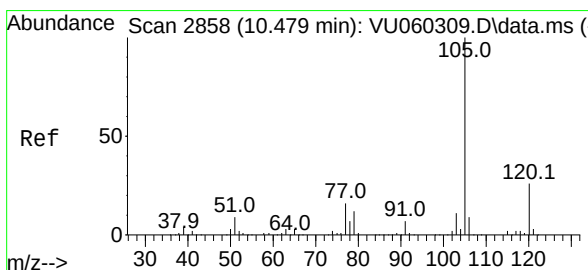
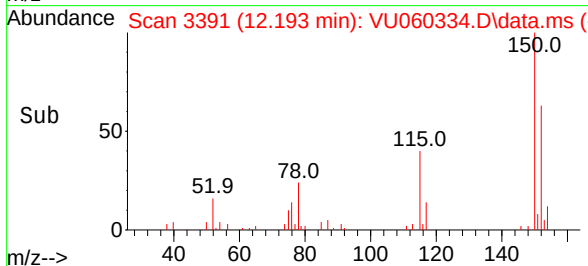
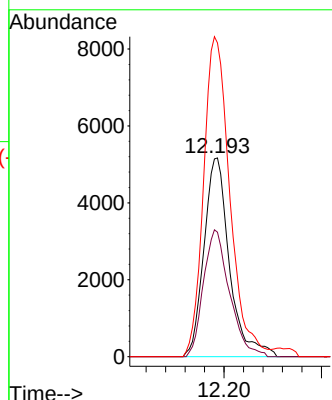
Tgt Ion:152 Resp: 9391

Ion Ratio Lower Upper

152 100

115 65.2 0.0 325.2

150 165.8 0.0 684.2



#69

Isopropylbenzene

Concen: 0.490 ug/l

RT: 10.480 min Scan# 2858

Delta R.T. 0.001 min

Lab File: VU060334.D

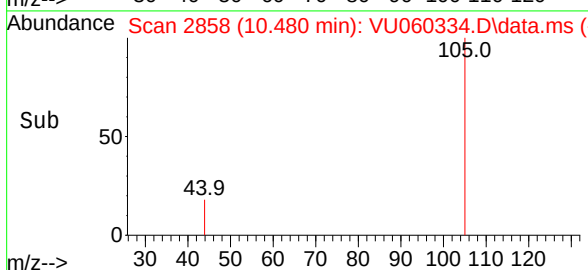
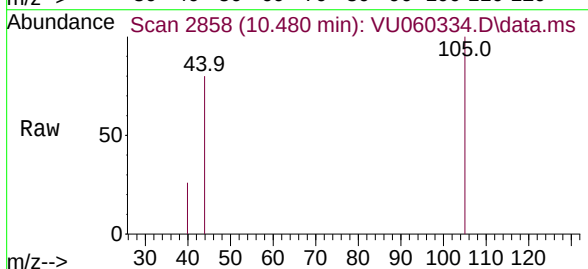
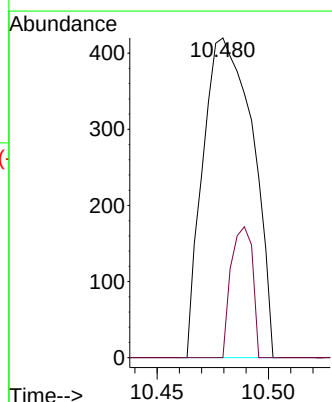
Acq: 07 Aug 2024 14:02

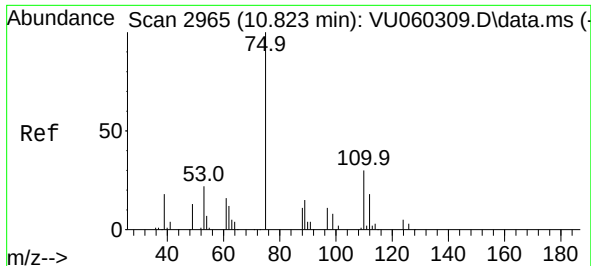
Tgt Ion:105 Resp: 650

Ion Ratio Lower Upper

105 100

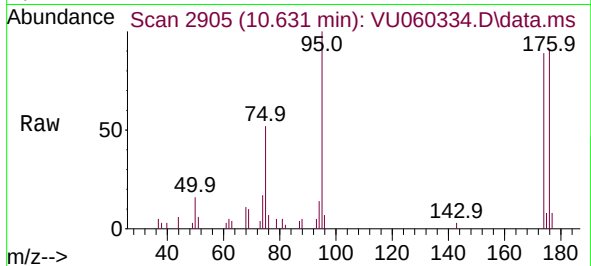
120 17.7 13.0 39.0



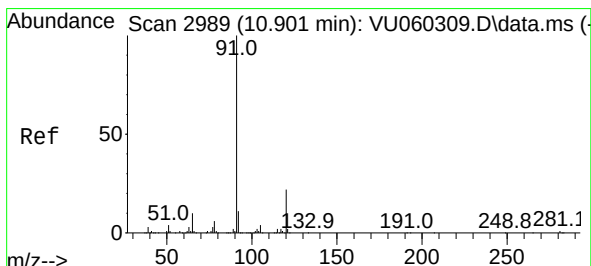
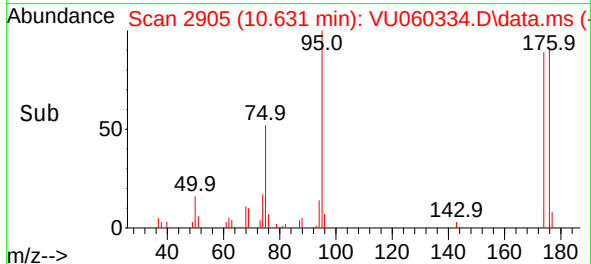
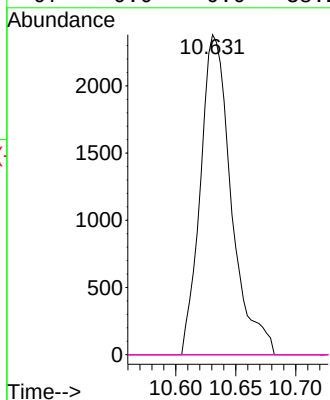


#71
1,2,3-Trichloropropane
Concen: 0.604 ug/l
RT: 10.631 min Scan# 2965
Delta R.T. -0.193 min
Lab File: VU060334.D
Acq: 07 Aug 2024 14:02

Instrument :
MSVOA_U
ClientSampleId :

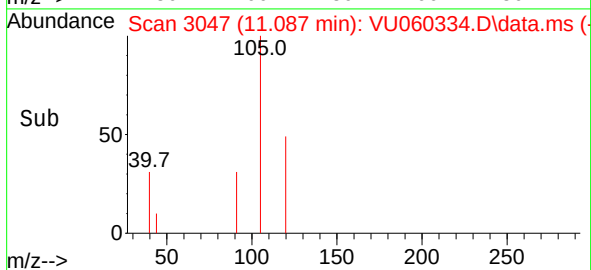
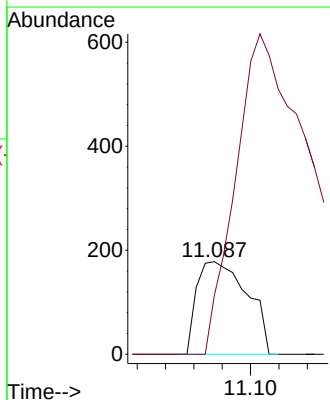
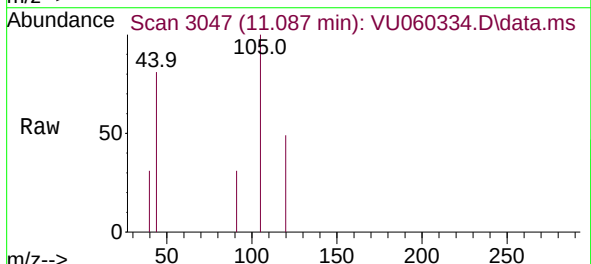


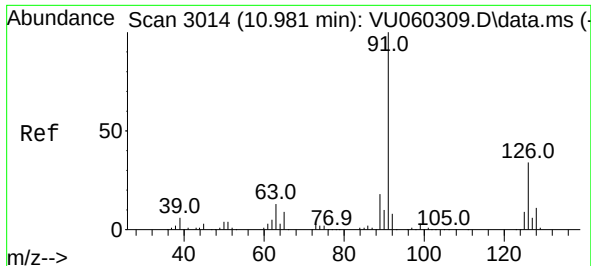
Tgt Ion: 75	Resp: 4270
Ion Ratio	Lower Upper
75 100	
77 13.3	0.0 102.2
110 0.0	0.0 67.4
97 0.0	0.0 38.2



#73
n-propylbenzene
Concen: 0.506 ug/l
RT: 11.087 min Scan# 3047
Delta R.T. 0.186 min
Lab File: VU060334.D
Acq: 07 Aug 2024 14:02

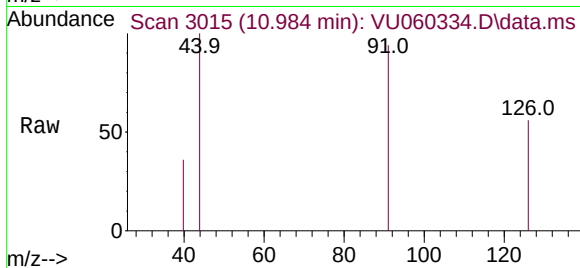
Tgt Ion:120	Resp:	220	
Ion	Ratio	Lower	Upper
120	100		
91	526.8	362.2	543.2



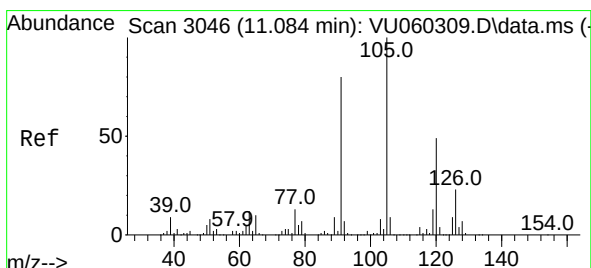
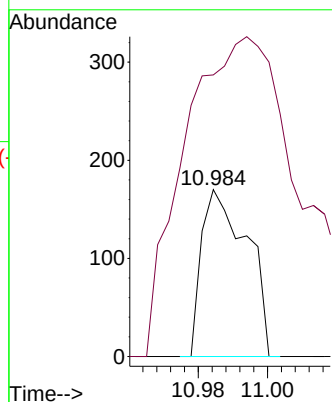
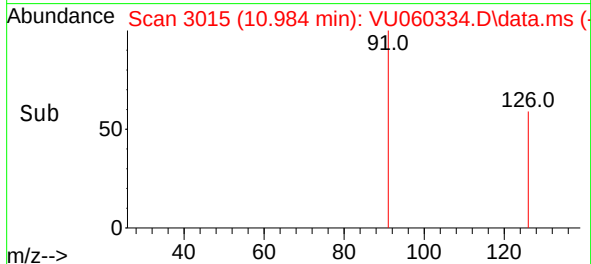


#74
2-Chlorotoluene
Concen: 0.330 ug/l
RT: 10.984 min Scan# 3014
Delta R.T. 0.003 min
Lab File: VU060334.D
Acq: 07 Aug 2024 14:02

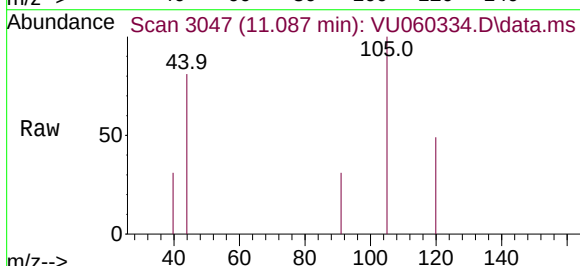
Instrument :
MSVOA_U
ClientSampleId :



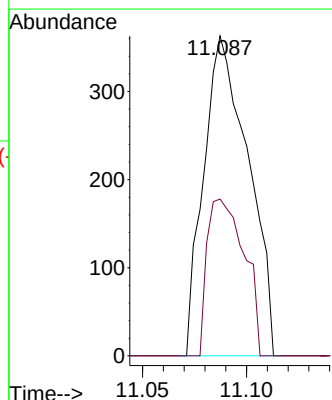
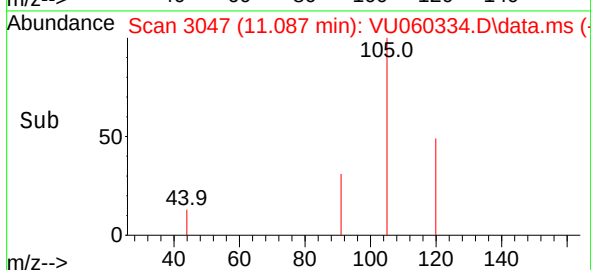
Tgt Ion:126 Resp: 155
Ion Ratio Lower Upper
126 100
91 474.8 0.0 585.6

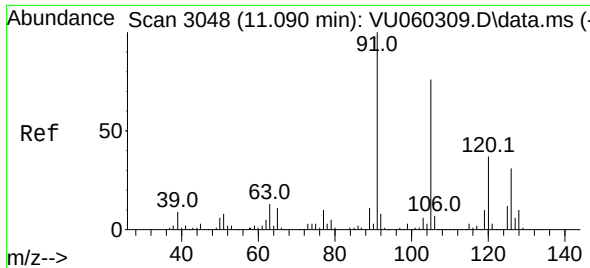


#75
1,3,5-Trimethylbenzene
Concen: 0.471 ug/l
RT: 11.087 min Scan# 3047
Delta R.T. 0.003 min
Lab File: VU060334.D
Acq: 07 Aug 2024 14:02



Tgt Ion:105 Resp: 539
Ion Ratio Lower Upper
105 100
120 40.8 38.6 57.8

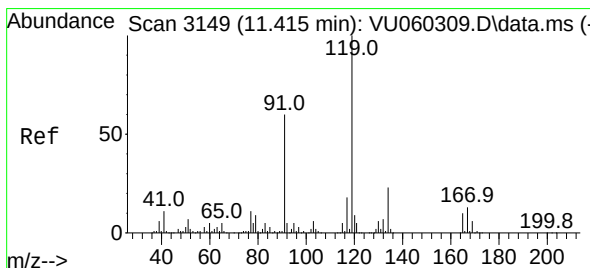
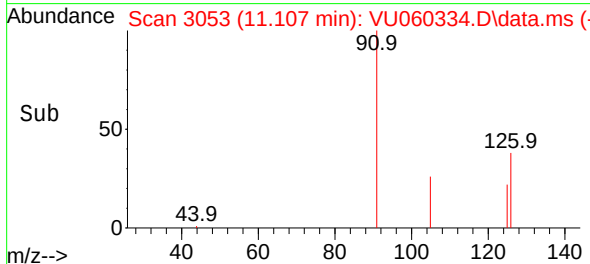
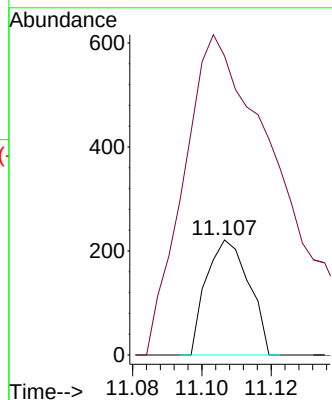
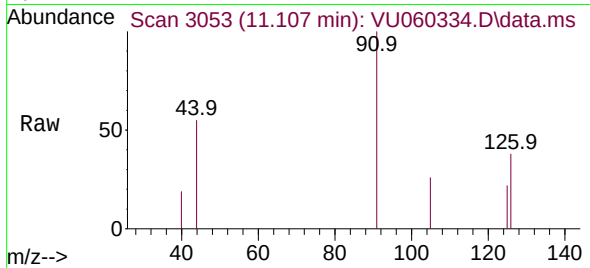




#76
4-Chlorotoluene
Concen: 0.354 ug/l
RT: 11.107 min Scan# 3048
Delta R.T. 0.017 min
Lab File: VU060334.D
Acq: 07 Aug 2024 14:02

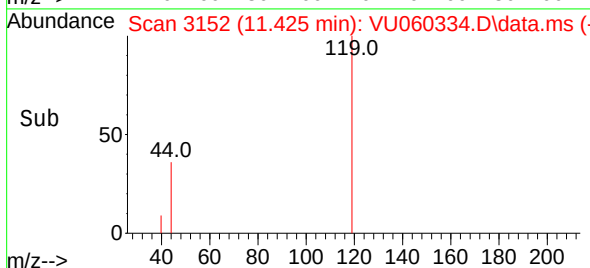
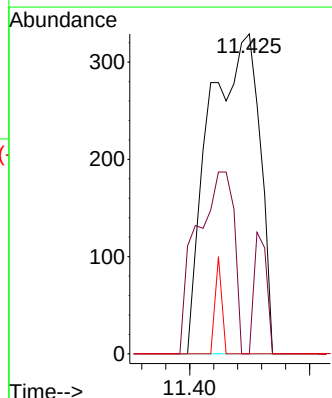
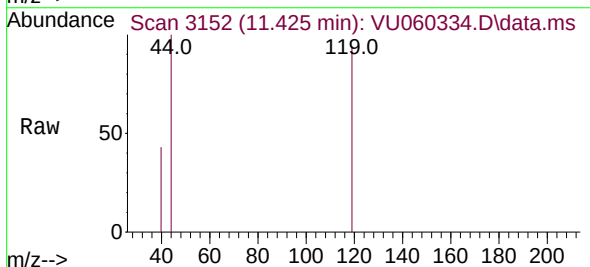
Instrument :
MSVOA_U
ClientSampleId :

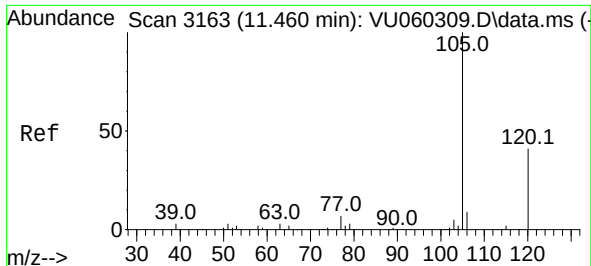
Tgt Ion:126 Resp: 190
Ion Ratio Lower Upper
126 100
91 610.0 0.0 669.4



#77
tert-Butylbenzene
Concen: 0.459 ug/l
RT: 11.425 min Scan# 3152
Delta R.T. 0.010 min
Lab File: VU060334.D
Acq: 07 Aug 2024 14:02

Tgt Ion:119 Resp: 479
Ion Ratio Lower Upper
119 100
91 9.4 29.0 87.1#
134 0.0 17.8 26.8#





#78

1,2,4-Trimethylbenzene

Concen: 0.522 ug/l

RT: 11.470 min Scan# 3166

Delta R.T. 0.010 min

Lab File: VU060334.D

Acq: 07 Aug 2024 14:02

Instrument :

MSVOA_U

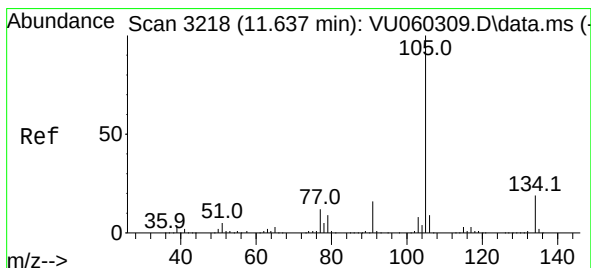
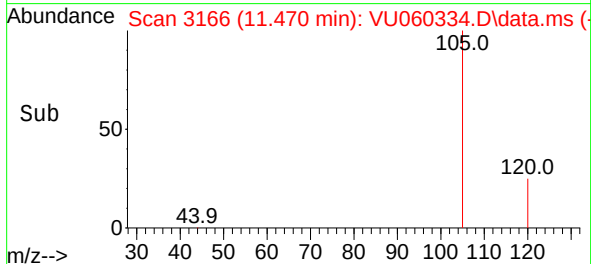
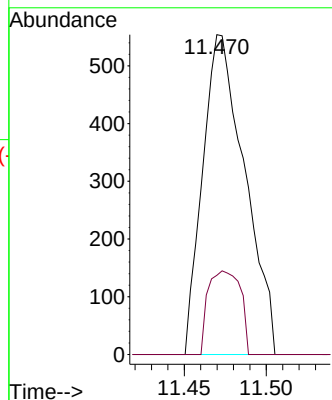
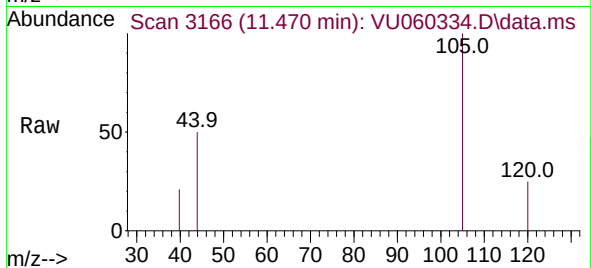
ClientSampleId :

Tgt Ion:105 Resp: 986

Ion Ratio Lower Upper

105 100

120 20.0 22.6 67.7#



#79

sec-Butylbenzene

Concen: 0.471 ug/l

RT: 11.643 min Scan# 3220

Delta R.T. 0.006 min

Lab File: VU060334.D

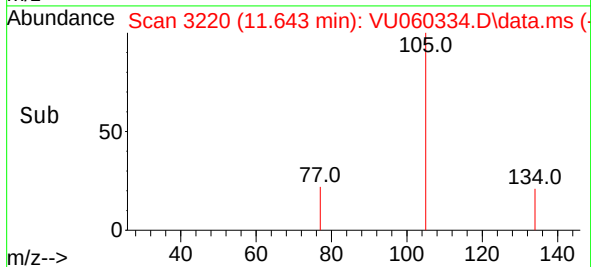
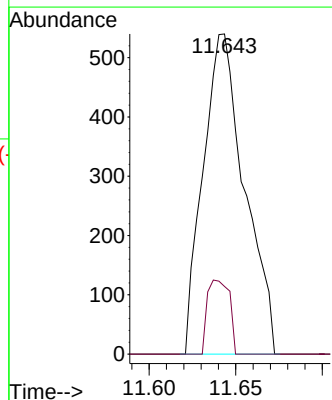
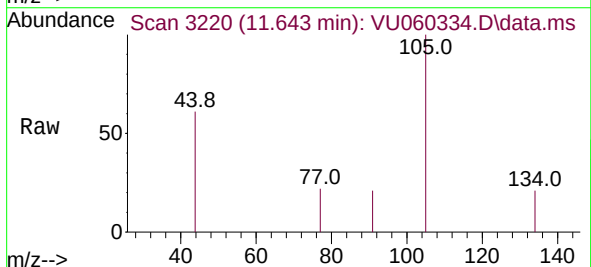
Acq: 07 Aug 2024 14:02

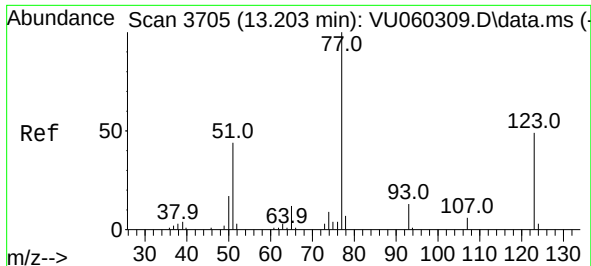
Tgt Ion:105 Resp: 900

Ion Ratio Lower Upper

105 100

134 12.3 15.5 23.3#





#80

Nitrobenzene

Concen: 0.203 ug/l

RT: 13.248 min Scan# 31

Delta R.T. 0.045 min

Lab File: VU060334.D

Acq: 07 Aug 2024 14:02

Instrument :

MSVOA_U

ClientSampleId :

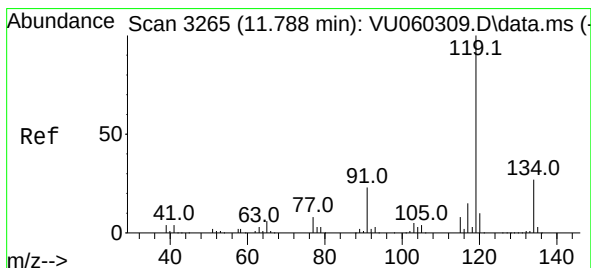
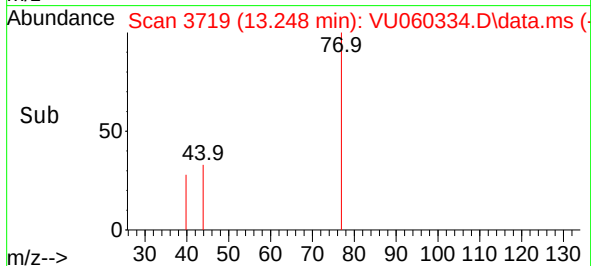
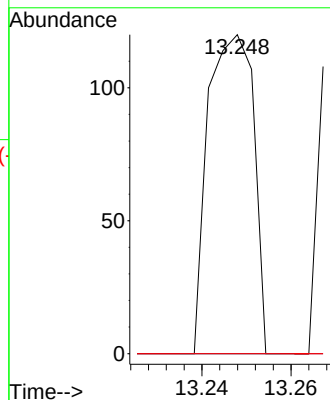
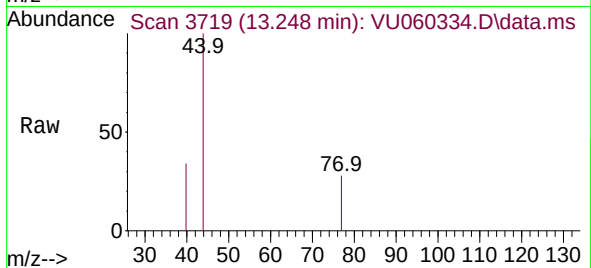
Tgt Ion: 77 Resp: 85

Ion Ratio Lower Upper

77 100

123 0.0 19.6 69.6#

65 0.0 9.0 11.4#



#81

p-Isopropyltoluene

Concen: 0.543 ug/l

RT: 11.795 min Scan# 3267

Delta R.T. 0.007 min

Lab File: VU060334.D

Acq: 07 Aug 2024 14:02

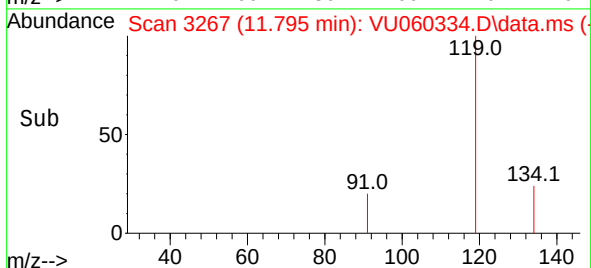
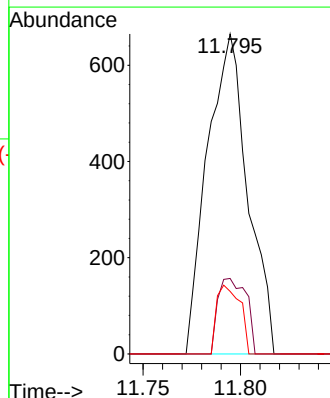
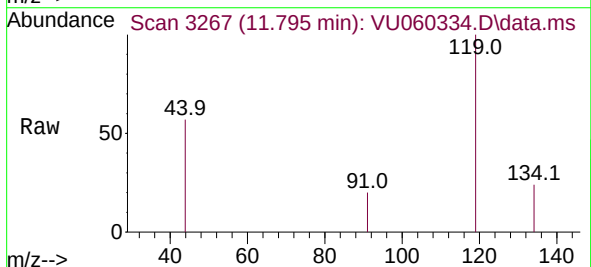
Tgt Ion: 119 Resp: 957

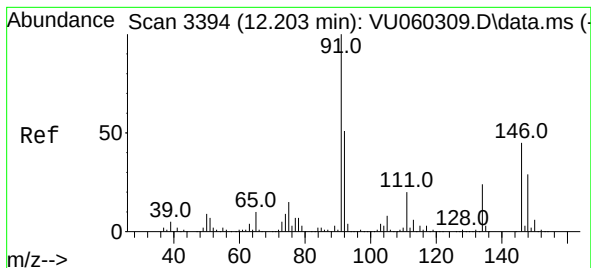
Ion Ratio Lower Upper

119 100

134 16.5 21.2 31.8#

91 12.4 18.9 28.3#





#84

n-Butylbenzene

Concen: 0.552 ug/l

RT: 12.216 min Scan# 3394

Delta R.T. 0.013 min

Lab File: VU060334.D

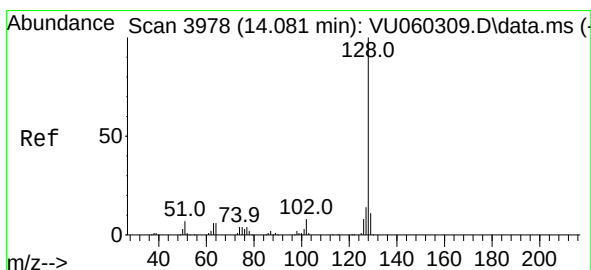
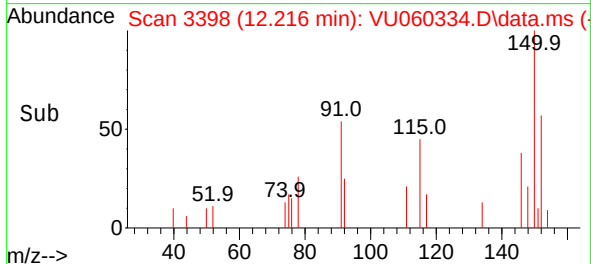
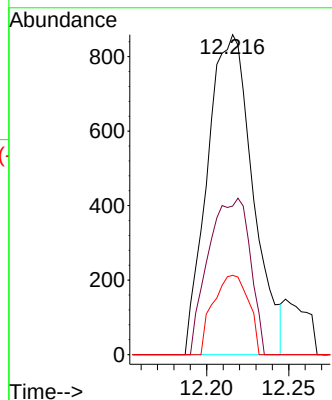
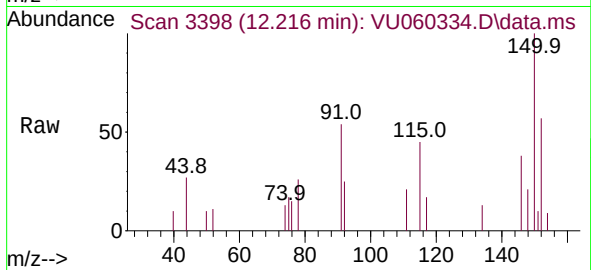
Acq: 07 Aug 2024 14:02

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 91	Resp: 1650
Ion Ratio	Lower Upper
91	100
92	44.7 41.0 61.6
134	19.2 19.4 29.2#



#89

Naphthalene

Concen: 0.209 ug/l

RT: 14.097 min Scan# 3983

Delta R.T. 0.016 min

Lab File: VU060334.D

Acq: 07 Aug 2024 14:02

Tgt Ion: 128	Resp: 3747
Ion Ratio	Lower Upper
128	100
127	4.4 11.0 16.4#
129	3.8 8.6 12.8#

