

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU080724\
 Data File : VU060346.D
 Acq On : 07 Aug 2024 19:34
 Operator : MD/SY
 Sample : P3204-08
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 21 Sample Multiplier: 1

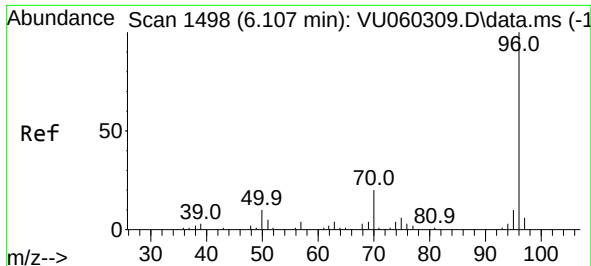
Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WS

Quant Time: Aug 08 06:04:12 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	29625	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.627	95	11742	1.163	ug/l	0.00
Spiked Amount 1.000			Recovery	=	116.000%	
68) 1,2-Dichlorobenzene-d4	12.190	152	13521	1.233	ug/l	0.00
Spiked Amount 1.000			Recovery	=	123.000%	
Target Compounds						
						Qvalue
3) Chloromethane	1.518	50	228913	17.571	ug/l	99
5) Bromomethane	1.856	94	369249	46.140	ug/l	99
17) 1,1-Dichloroethane	3.859	63	180591	9.898	ug/l	97
21) 2,2-Dichloropropane	4.656	77	210861	14.840	ug/l	97
25) Methyl tert-Butyl Ether	3.357	73	556234	25.583	ug/l	97
26) Bromochloromethane	4.968	128	59972	13.932	ug/l	89
29) 1,1-Dichloropropene	5.521	75	144347	12.147	ug/l	100
43) Dibromomethane	6.910	93	104921	20.938	ug/l	96
50) t-1,3-Dichloropropene	8.203	75	173235	17.441	ug/l	99
51) cis-1,3-Dichloropropene	7.602	75	84975	7.112	ug/l	98
53) 1,3-Dichloropropane	8.566	76	252298	21.497	ug/l	99
60) 1,1,1,2-Tetrachloroethane	9.524	131	191347	22.093	ug/l	99
69) Isopropylbenzene	10.479	105	506658	12.120	ug/l	99
70) 1,1,2,2-Tetrachloroethane	10.775	83	192991	19.717	ug/l	100
71) 1,2,3-Trichloropropane	10.814	75	113450	15.648	ug/l	84
72) Bromobenzene	10.775	156	34458	3.817	ug/l	95
73) n-propylbenzene	10.897	120	191005	15.757	ug/l	95
74) 2-Chlorotoluene	10.978	126	207745	19.463	ug/l	98
75) 1,3,5-Trimethylbenzene	11.081	105	261030	7.193	ug/l	99
76) 4-Chlorotoluene	11.090	126	107669	9.769	ug/l	92
77) tert-Butylbenzene	11.412	119	574065	16.149	ug/l	90
78) 1,2,4-Trimethylbenzene	11.460	105	651876	16.567	ug/l	99
79) sec-Butylbenzene	11.637	105	692623	14.262	ug/l	99
81) p-Isopropyltoluene	11.785	119	512412	12.720	ug/l	99
82) 1,3-Dichlorobenzene	11.737	146	398820	21.177	ug/l	100
84) n-Butylbenzene	12.203	91	643542	16.399	ug/l	100
88) Hexachlorobutadiene	14.013	225	58790	8.727	ug/l	100
89) Naphthalene	14.081	128	574224	31.152	ug/l	99
90) 1,2,3-Trichlorobenzene	14.322	180	588246	57.834	ug/l	99

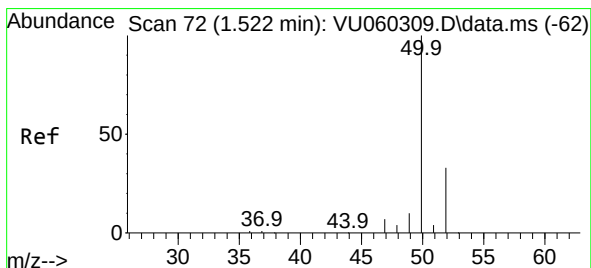
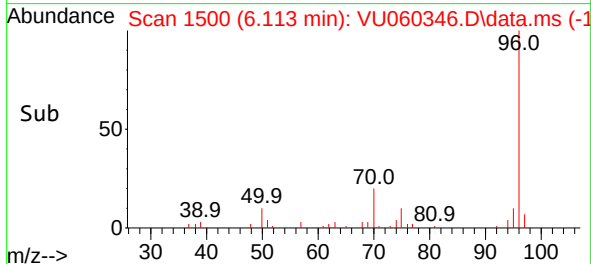
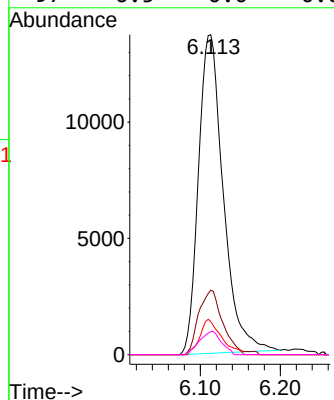
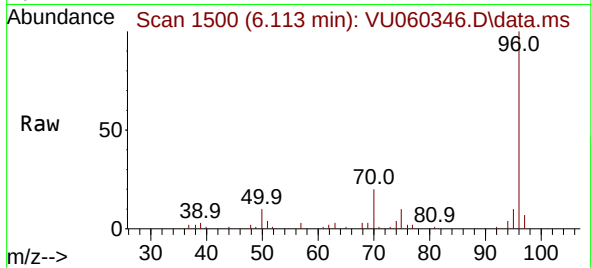
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.113 min Scan# 1
Delta R.T. 0.006 min
Lab File: VU060346.D
Acq: 07 Aug 2024 19:34

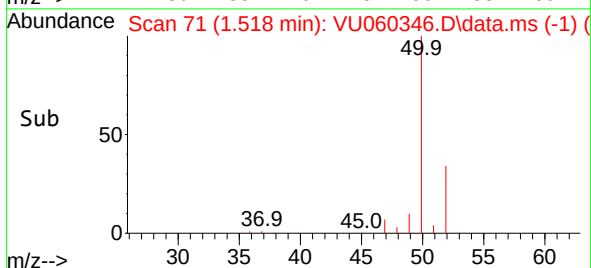
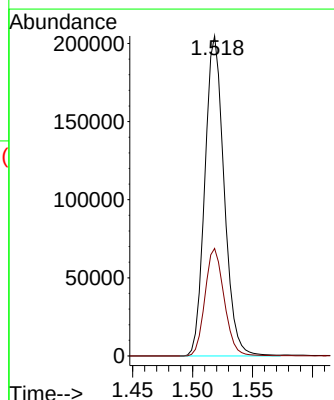
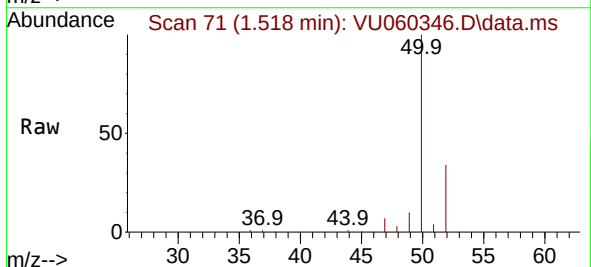
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

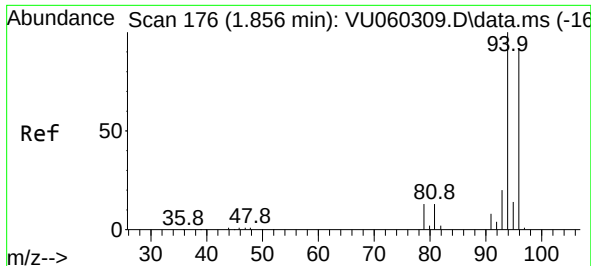
Tgt Ion: 96	Resp: 29625
Ion Ratio	Lower Upper
96 100	
70 18.5	17.2 25.8
95 9.5	7.9 11.9
97 6.5	0.0 0.0



#3
Chloromethane
Concen: 17.571 ug/l
RT: 1.518 min Scan# 71
Delta R.T. -0.003 min
Lab File: VU060346.D
Acq: 07 Aug 2024 19:34

Tgt Ion: 50	Resp: 228913
Ion Ratio	Lower Upper
50 100	
52 33.6	26.5 39.7

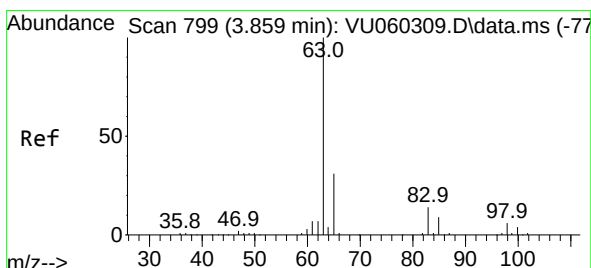
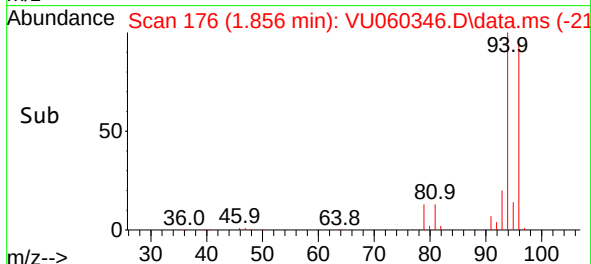
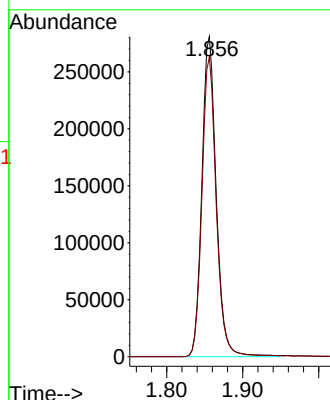
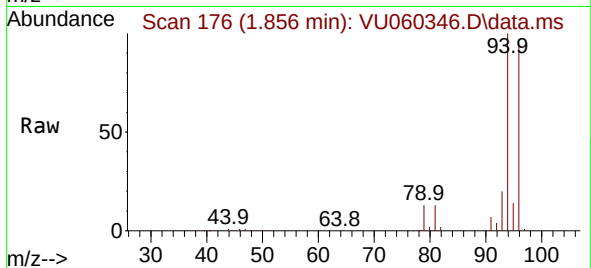




#5
Bromomethane
Concen: 46.140 ug/l
RT: 1.856 min Scan# 176
Delta R.T. -0.000 min
Lab File: VU060346.D
Acq: 07 Aug 2024 19:34

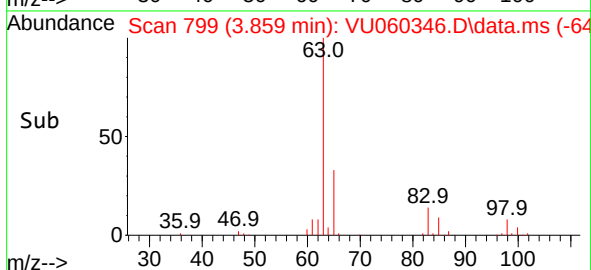
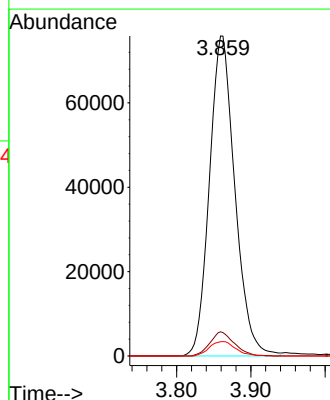
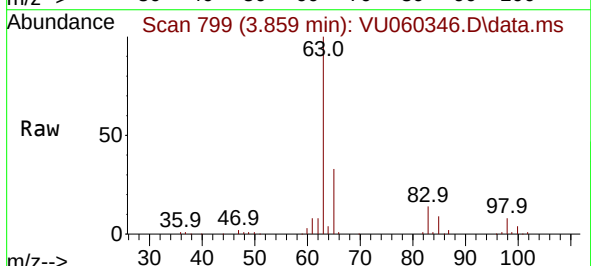
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

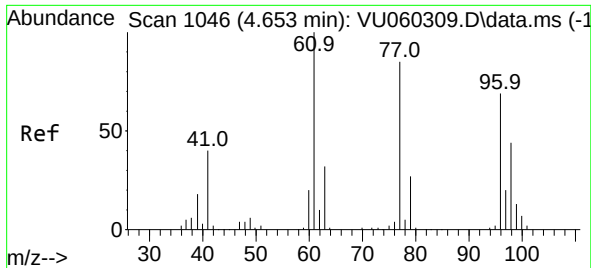
Tgt Ion: 94 Resp: 369249
Ion Ratio Lower Upper
94 100
96 93.6 73.8 110.8



#17
1,1-Dichloroethane
Concen: 9.898 ug/l
RT: 3.859 min Scan# 799
Delta R.T. -0.000 min
Lab File: VU060346.D
Acq: 07 Aug 2024 19:34

Tgt Ion: 63 Resp: 180591
Ion Ratio Lower Upper
63 100
98 7.5 3.1 9.4
100 4.5 2.0 5.8





#21

2,2-Dichloropropane

Concen: 14.840 ug/l

RT: 4.656 min Scan# 1046

Delta R.T. 0.003 min

Lab File: VU060346.D

Acq: 07 Aug 2024 19:34

Instrument :

MSVOA_U

ClientSampleId :

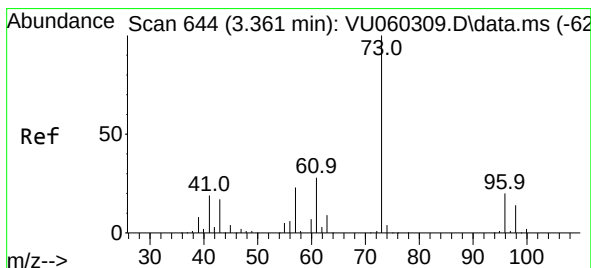
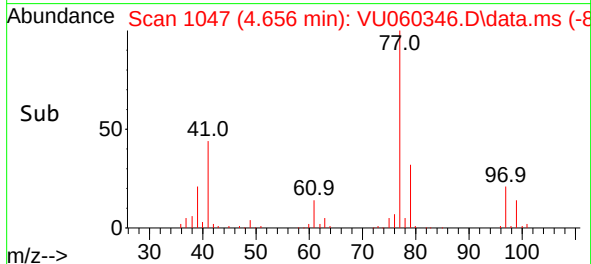
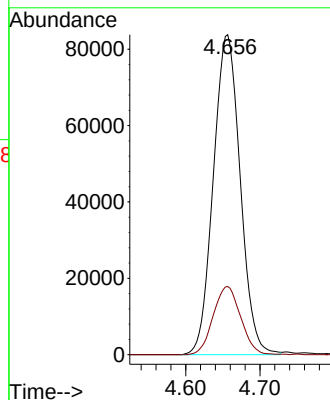
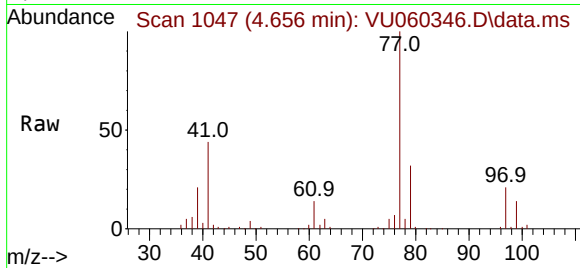
PT-UNRVOA-WS

Tgt Ion: 77 Resp: 210861

Ion Ratio Lower Upper

77 100

97 21.8 18.6 27.8



#25

Methyl tert-Butyl Ether

Concen: 25.583 ug/l

RT: 3.357 min Scan# 643

Delta R.T. -0.003 min

Lab File: VU060346.D

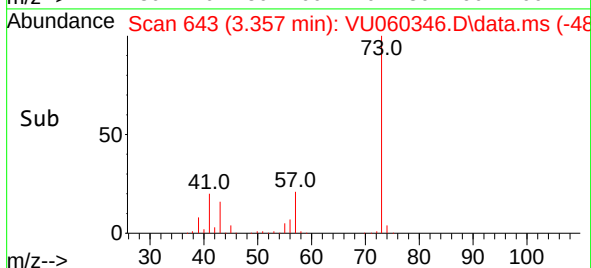
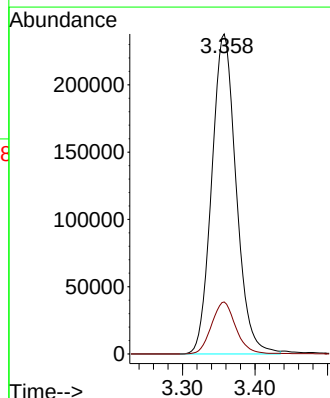
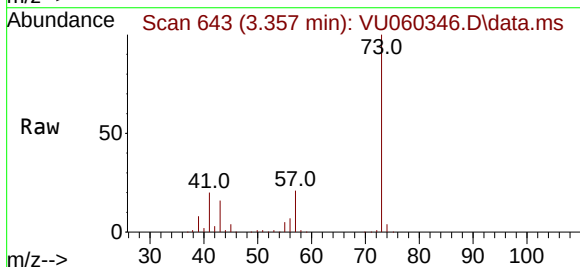
Acq: 07 Aug 2024 19:34

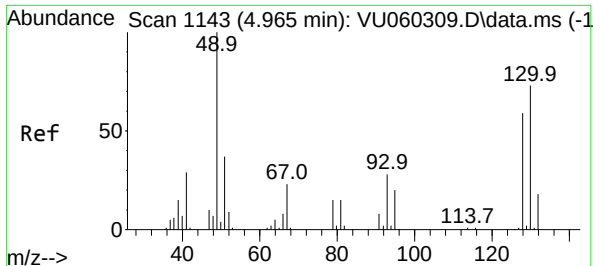
Tgt Ion: 73 Resp: 556234

Ion Ratio Lower Upper

73 100

43 16.2 14.1 21.1

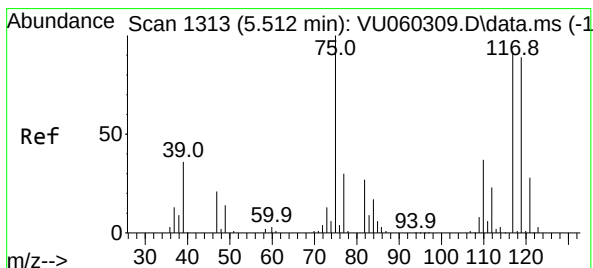
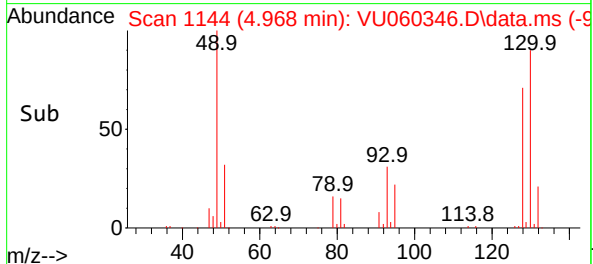
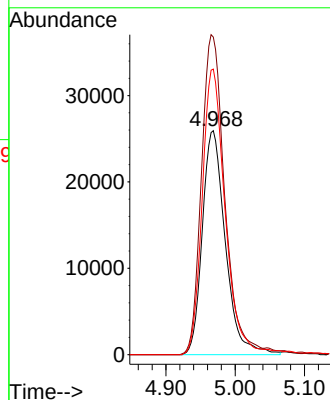
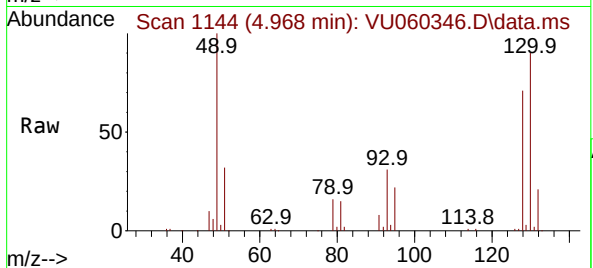




#26
Bromochloromethane
Concen: 13.932 ug/l
RT: 4.968 min Scan# 1144
Delta R.T. 0.003 min
Lab File: VU060346.D
Acq: 07 Aug 2024 19:34

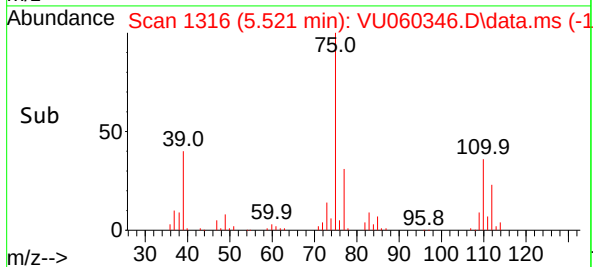
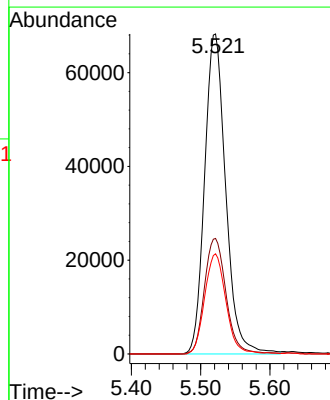
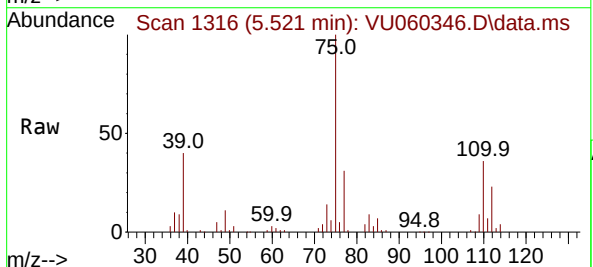
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

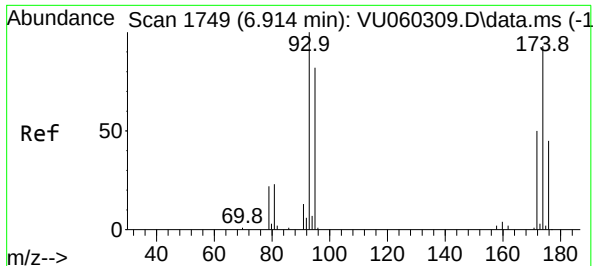
Tgt Ion:128 Resp: 59972
Ion Ratio Lower Upper
128 100
49 143.9 0.0 340.8
130 127.3 102.1 153.1



#29
1,1-Dichloropropene
Concen: 12.147 ug/l
RT: 5.521 min Scan# 1316
Delta R.T. 0.010 min
Lab File: VU060346.D
Acq: 07 Aug 2024 19:34

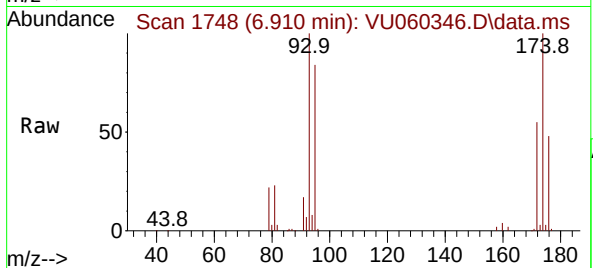
Tgt Ion: 75 Resp: 144347
Ion Ratio Lower Upper
75 100
110 36.9 18.4 55.2
77 31.4 24.8 37.2



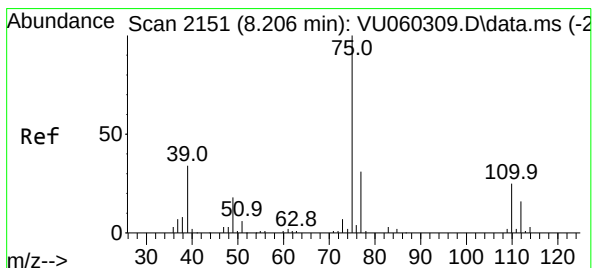
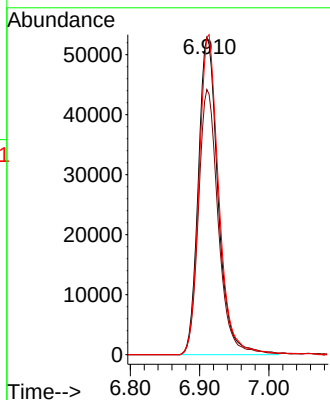
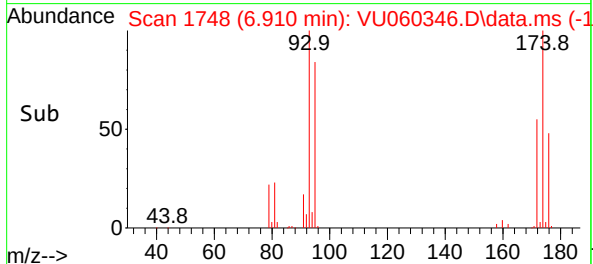


#43
Dibromomethane
Concen: 20.938 ug/l
RT: 6.910 min Scan# 11
Delta R.T. -0.003 min
Lab File: VU060346.D
Acq: 07 Aug 2024 19:34

Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

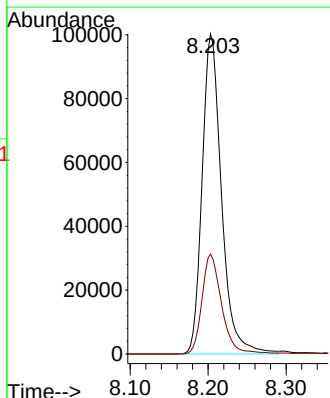
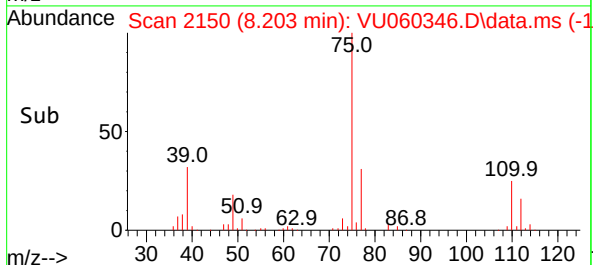
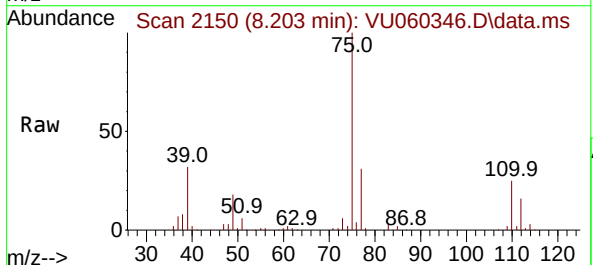


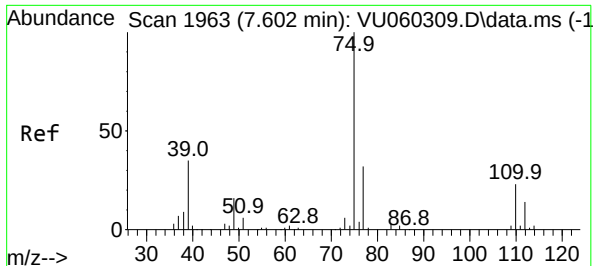
Tgt Ion: 93 Resp: 104921
Ion Ratio Lower Upper
93 100
95 83.6 66.4 99.6
174 100.8 75.2 112.8



#50
t-1,3-Dichloropropene
Concen: 17.441 ug/l
RT: 8.203 min Scan# 2150
Delta R.T. -0.003 min
Lab File: VU060346.D
Acq: 07 Aug 2024 19:34

Tgt Ion: 75 Resp: 173235
Ion Ratio Lower Upper
75 100
77 31.2 24.6 37.0

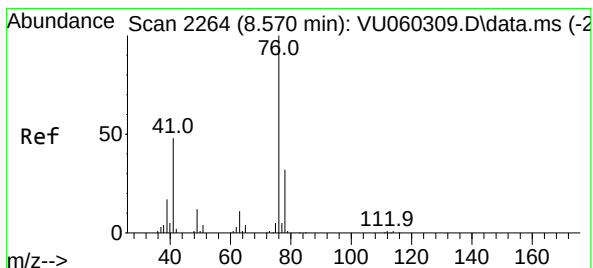
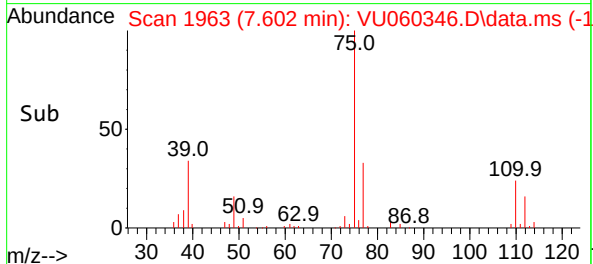
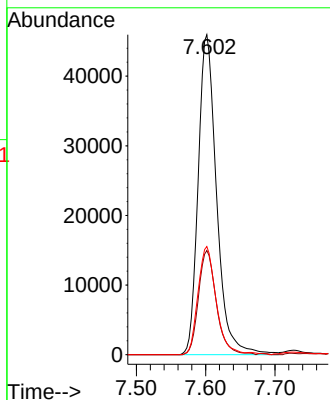
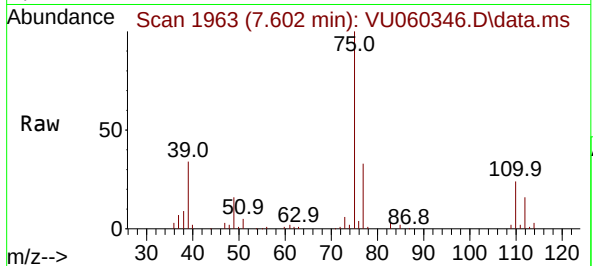




#51
cis-1,3-Dichloropropene
Concen: 7.112 ug/l
RT: 7.602 min Scan# 1963
Delta R.T. -0.000 min
Lab File: VU060346.D
Acq: 07 Aug 2024 19:34

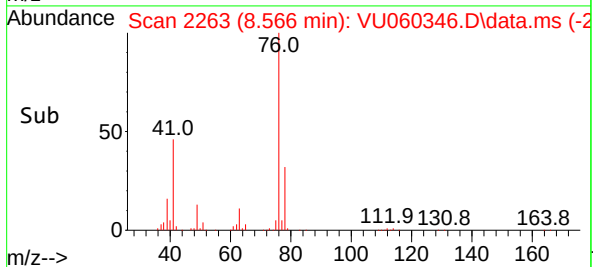
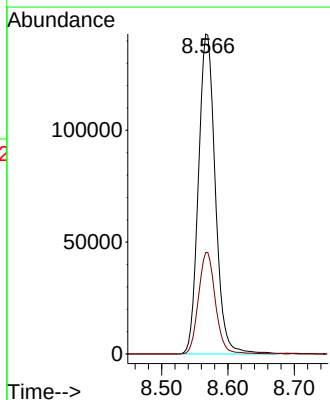
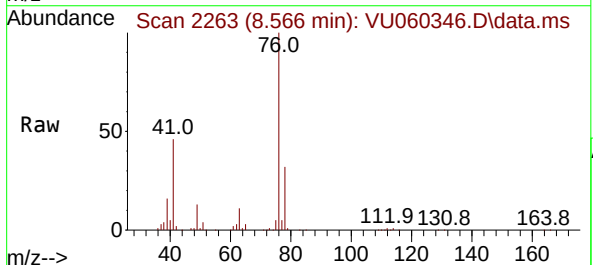
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PT-UNRVOA-WS

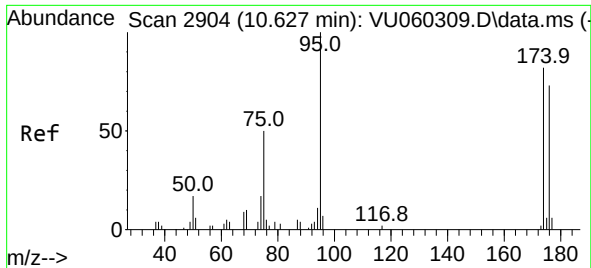
Tgt Ion: 75 Resp: 84975
Ion Ratio Lower Upper
75 100
77 32.6 25.4 38.0
39 33.8 28.0 42.0



#53
1,3-Dichloropropane
Concen: 21.497 ug/l
RT: 8.566 min Scan# 2263
Delta R.T. -0.003 min
Lab File: VU060346.D
Acq: 07 Aug 2024 19:34

Tgt Ion: 76 Resp: 252298
Ion Ratio Lower Upper
76 100
78 31.9 26.2 39.2



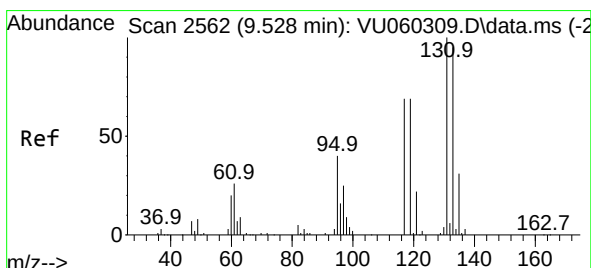
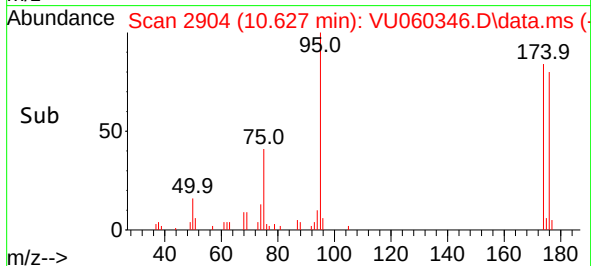
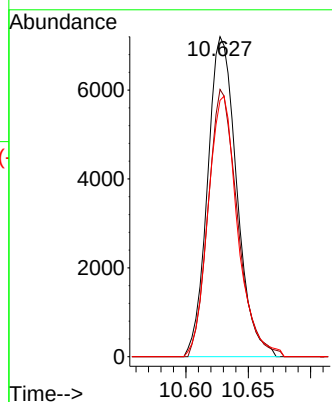
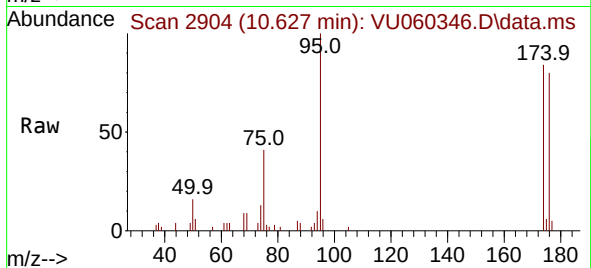


#57
 4-Bromofluorobenzene
 Concen: 1.163 ug/l
 RT: 10.627 min Scan# 2904
 Delta R.T. -0.000 min
 Lab File: VU060346.D
 Acq: 07 Aug 2024 19:34

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WS

Tgt Ion: 95 Resp: 11742

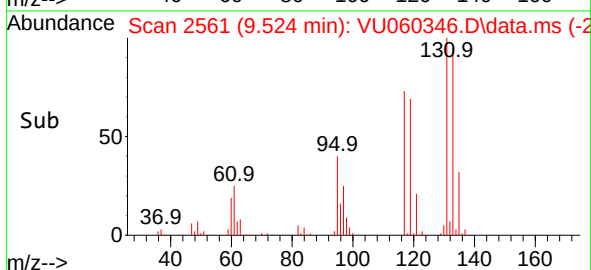
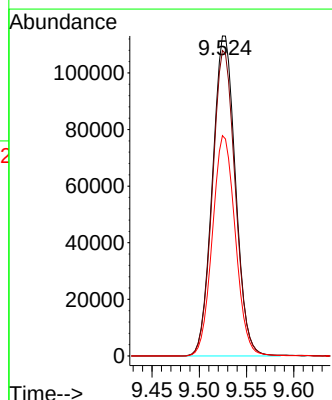
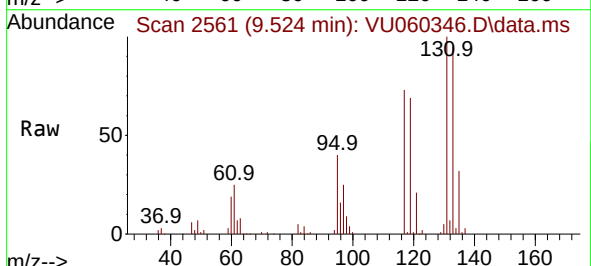
Ion	Ratio	Lower	Upper
95	100		
174	83.8	65.6	98.4
176	82.5	60.4	90.6

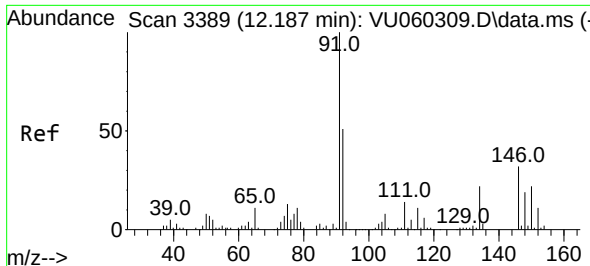


#60
 1,1,1,2-Tetrachloroethane
 Concen: 22.093 ug/l
 RT: 9.524 min Scan# 2561
 Delta R.T. -0.003 min
 Lab File: VU060346.D
 Acq: 07 Aug 2024 19:34

Tgt Ion: 131 Resp: 191347

Ion	Ratio	Lower	Upper
131	100		
133	95.0	77.2	115.8
119	68.6	55.4	83.2

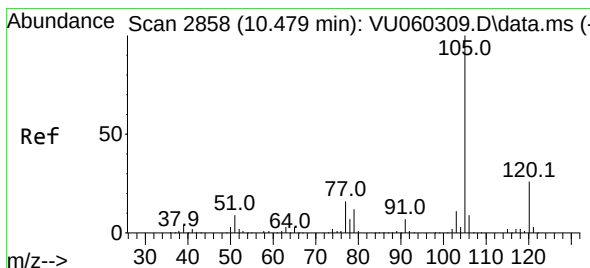
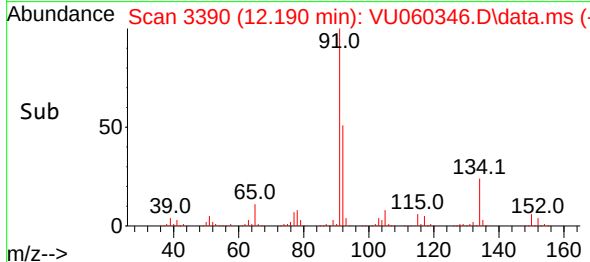
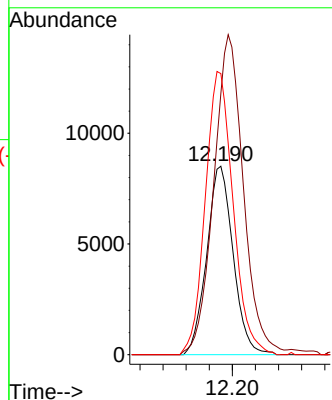
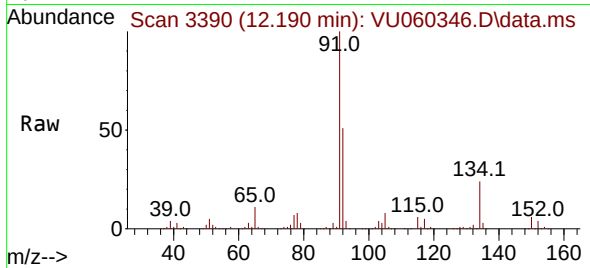




#68
 1,2-Dichlorobenzene-d4
 Concen: 1.233 ug/l
 RT: 12.190 min Scan# 31
 Delta R.T. 0.003 min
 Lab File: VU060346.D
 Acq: 07 Aug 2024 19:34

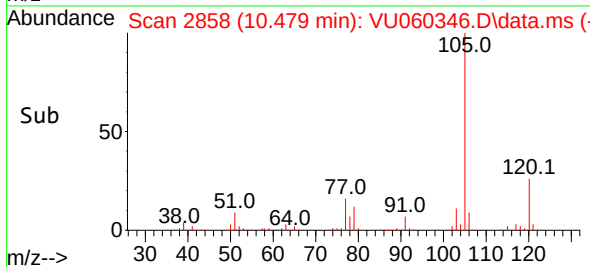
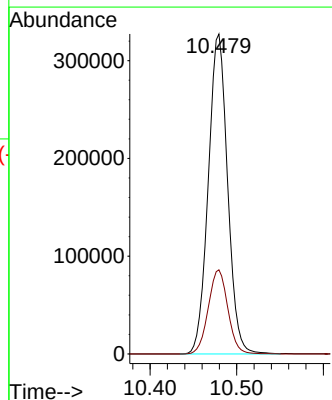
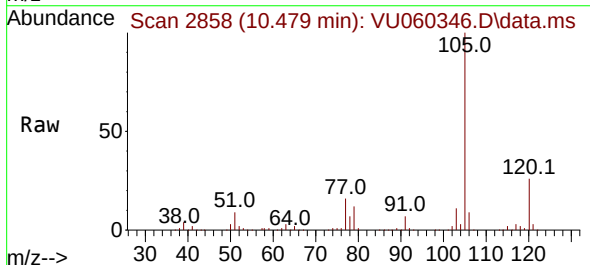
Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WS

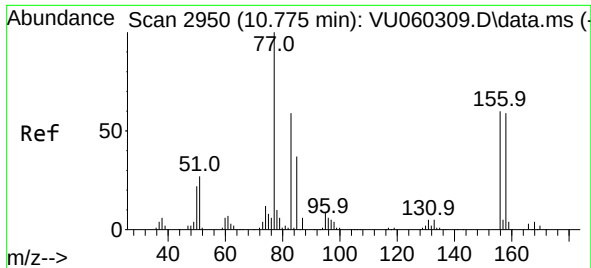
Tgt Ion:152 Resp: 13521
 Ion Ratio Lower Upper
 152 100
 115 190.8 0.0 325.2
 150 158.0 0.0 684.2



#69
 Isopropylbenzene
 Concen: 12.120 ug/l
 RT: 10.479 min Scan# 2858
 Delta R.T. 0.000 min
 Lab File: VU060346.D
 Acq: 07 Aug 2024 19:34

Tgt Ion:105 Resp: 506658
 Ion Ratio Lower Upper
 105 100
 120 26.7 13.0 39.0

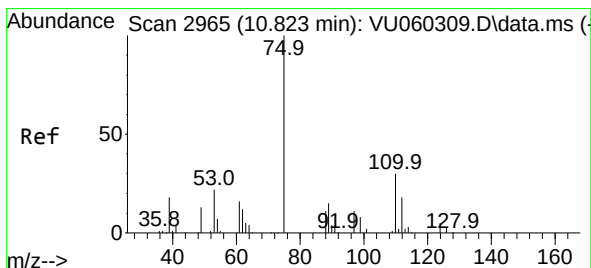
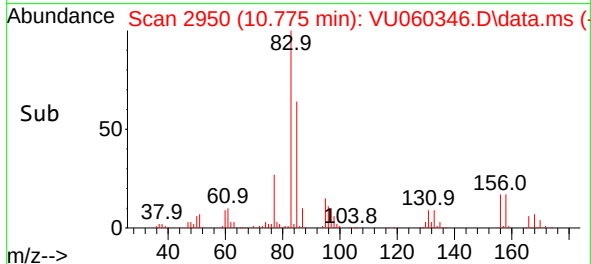
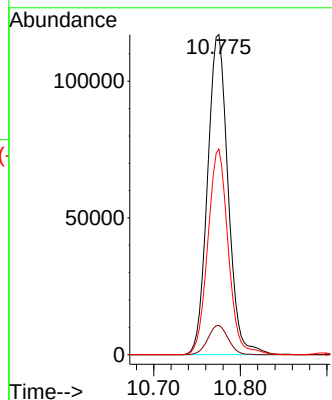
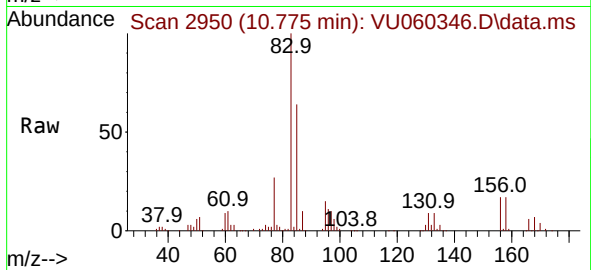




#70
 1,1,2,2-Tetrachloroethane
 Concen: 19.717 ug/l
 RT: 10.775 min Scan# 2950
 Delta R.T. -0.000 min
 Lab File: VU060346.D
 Acq: 07 Aug 2024 19:34

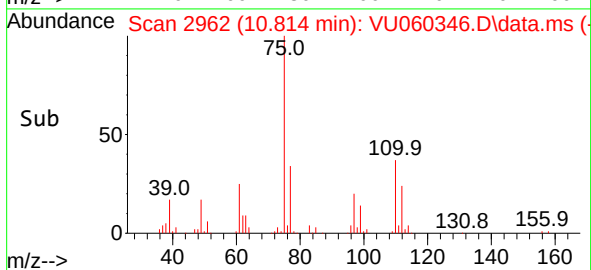
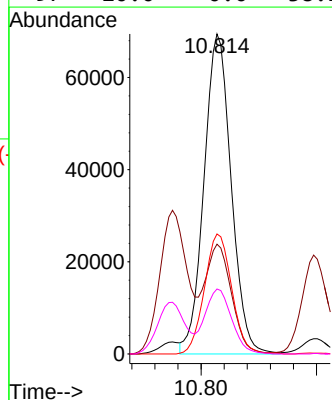
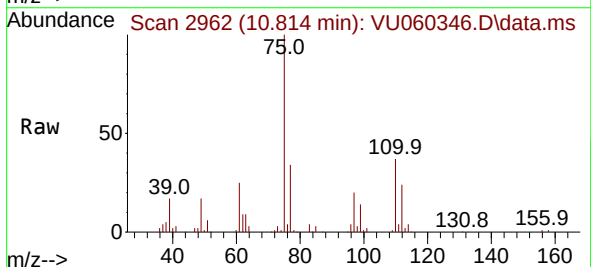
Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WS

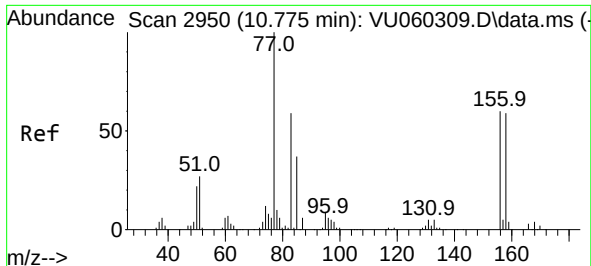
Tgt Ion: 83 Resp: 192991
 Ion Ratio Lower Upper
 83 100
 131 9.0 7.1 10.7
 85 63.8 50.9 76.3



#71
 1,2,3-Trichloropropane
 Concen: 15.648 ug/l
 RT: 10.814 min Scan# 2962
 Delta R.T. -0.010 min
 Lab File: VU060346.D
 Acq: 07 Aug 2024 19:34

Tgt Ion: 75 Resp: 113450
 Ion Ratio Lower Upper
 75 100
 77 32.7 0.0 102.2
 110 37.7 0.0 67.4
 97 20.0 0.0 38.2

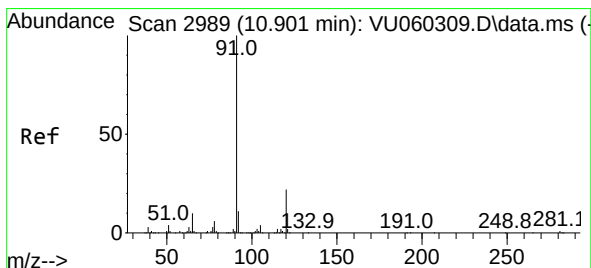
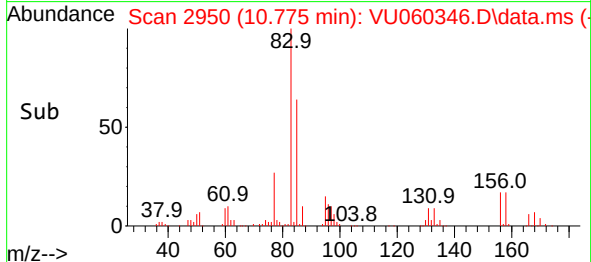
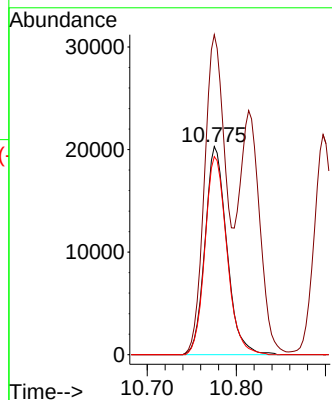
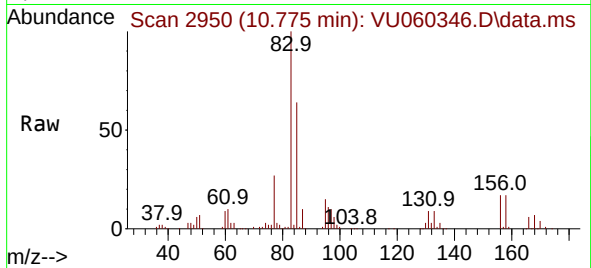




#72
Bromobenzene
Concen: 3.817 ug/l
RT: 10.775 min Scan# 2950
Delta R.T. -0.000 min
Lab File: VU060346.D
Acq: 07 Aug 2024 19:34

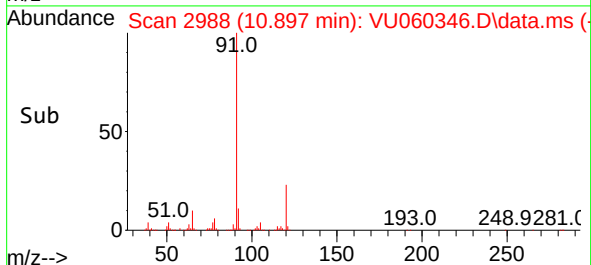
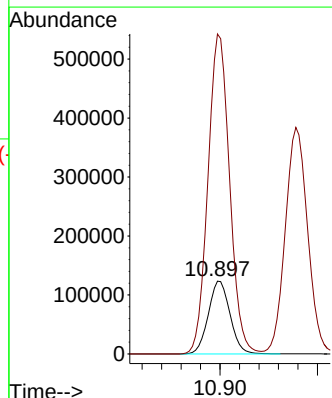
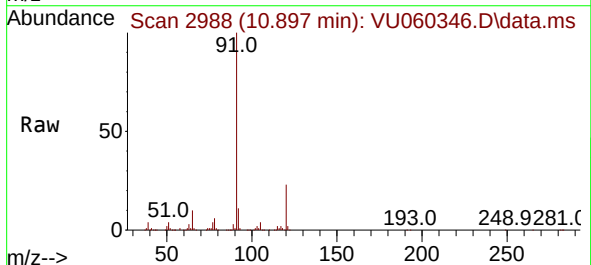
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

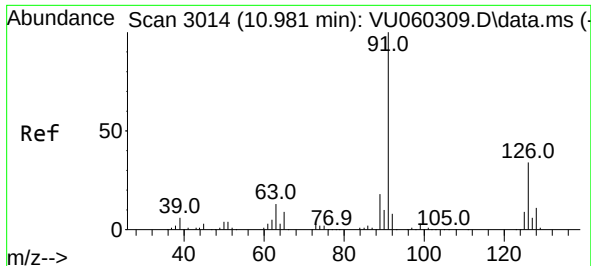
Tgt Ion:156 Resp: 34458
Ion Ratio Lower Upper
156 100
77 153.4 0.0 327.2
158 95.7 0.0 193.8



#73
n-propylbenzene
Concen: 15.757 ug/l
RT: 10.897 min Scan# 2988
Delta R.T. -0.004 min
Lab File: VU060346.D
Acq: 07 Aug 2024 19:34

Tgt Ion:120 Resp: 191005
Ion Ratio Lower Upper
120 100
91 439.2 362.2 543.2

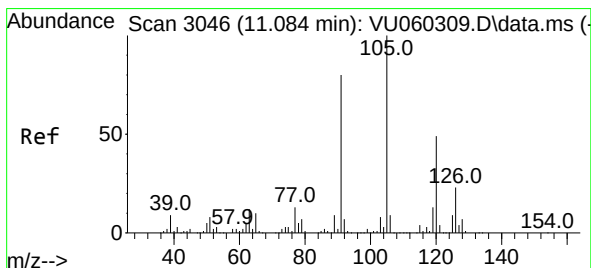
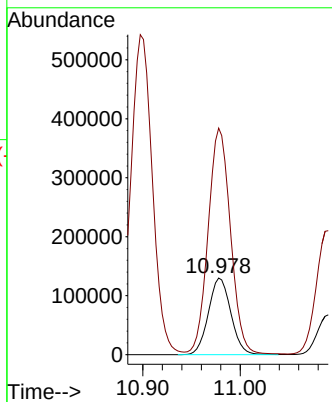
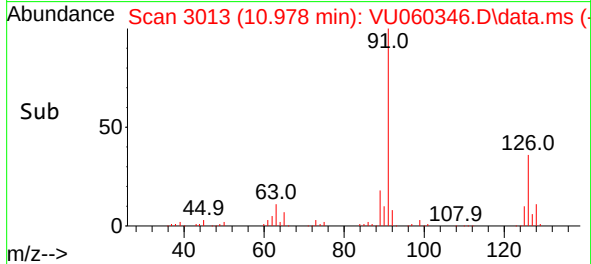
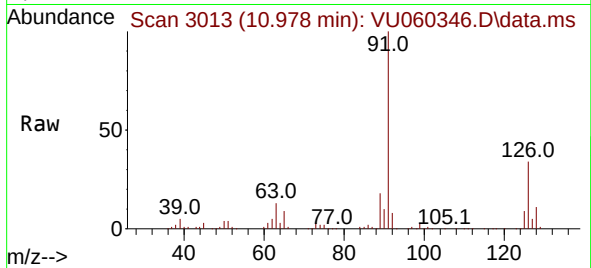




#74
2-Chlorotoluene
Concen: 19.463 ug/l
RT: 10.978 min Scan# 3013
Delta R.T. -0.003 min
Lab File: VU060346.D
Acq: 07 Aug 2024 19:34

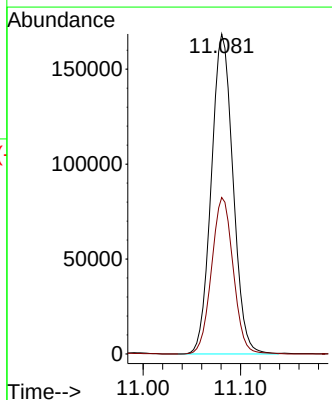
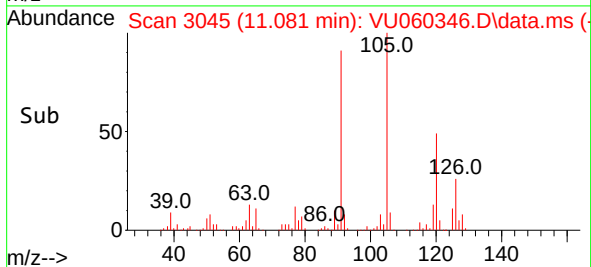
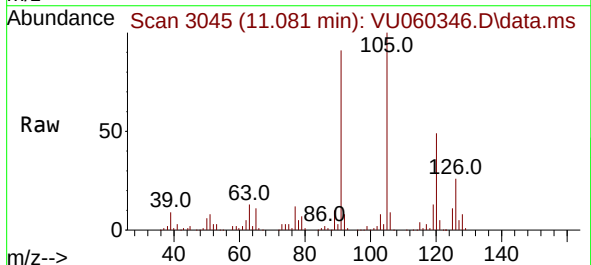
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

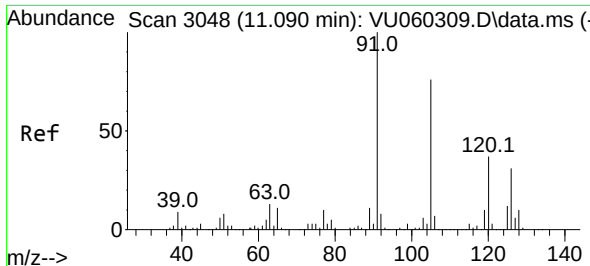
Tgt Ion:126 Resp: 207745
Ion Ratio Lower Upper
126 100
91 296.0 0.0 585.6



#75
1,3,5-Trimethylbenzene
Concen: 7.193 ug/l
RT: 11.081 min Scan# 3045
Delta R.T. -0.003 min
Lab File: VU060346.D
Acq: 07 Aug 2024 19:34

Tgt Ion:105 Resp: 261030
Ion Ratio Lower Upper
105 100
120 48.8 38.6 57.8

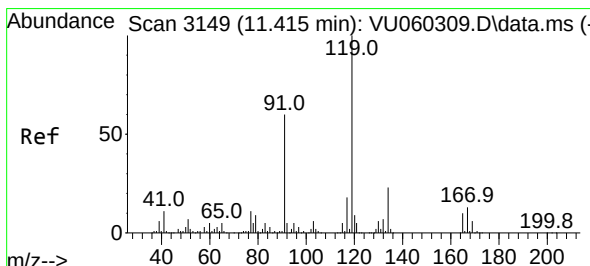
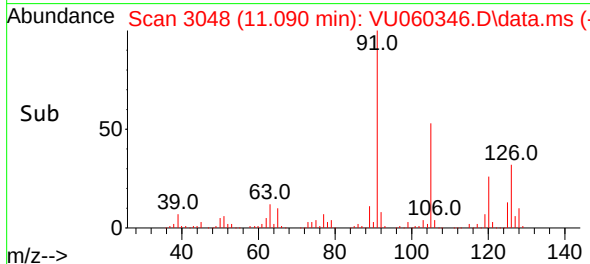
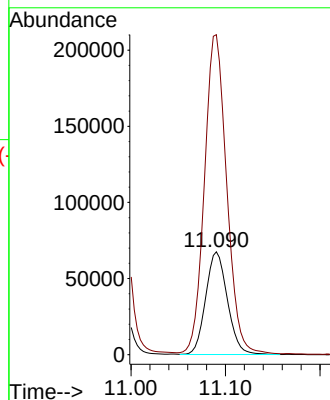
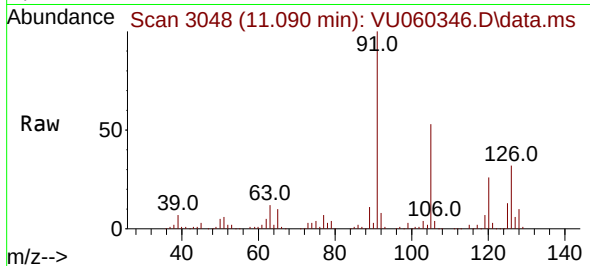




#76
4-Chlorotoluene
Concen: 9.769 ug/l
RT: 11.090 min Scan# 3048
Delta R.T. 0.000 min
Lab File: VU060346.D
Acq: 07 Aug 2024 19:34

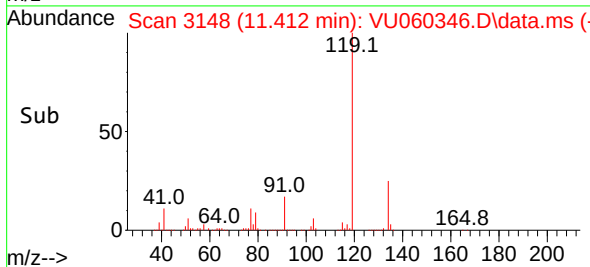
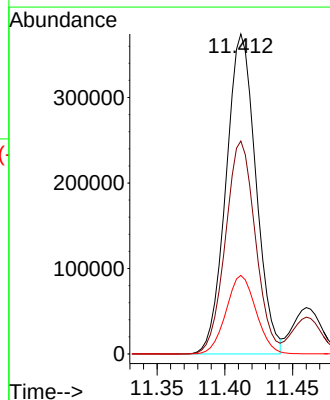
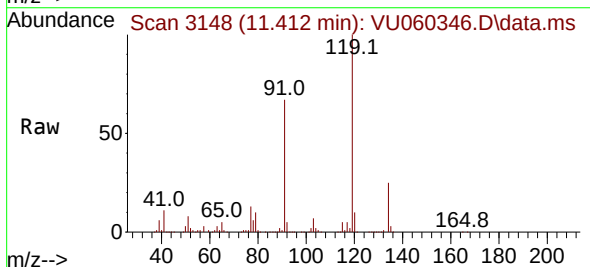
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

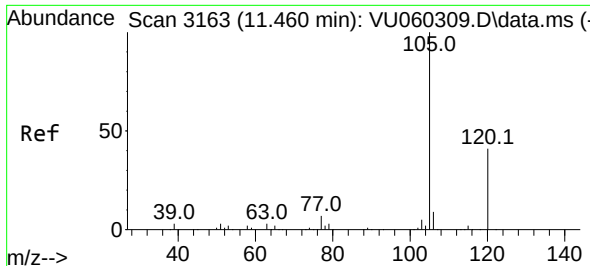
Tgt Ion:126 Resp: 107669
Ion Ratio Lower Upper
126 100
91 318.1 0.0 669.4



#77
tert-Butylbenzene
Concen: 16.149 ug/l
RT: 11.412 min Scan# 3148
Delta R.T. -0.003 min
Lab File: VU060346.D
Acq: 07 Aug 2024 19:34

Tgt Ion:119 Resp: 574065
Ion Ratio Lower Upper
119 100
91 66.8 29.0 87.1
134 24.6 17.8 26.8

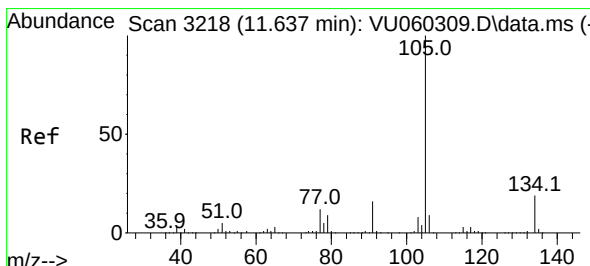
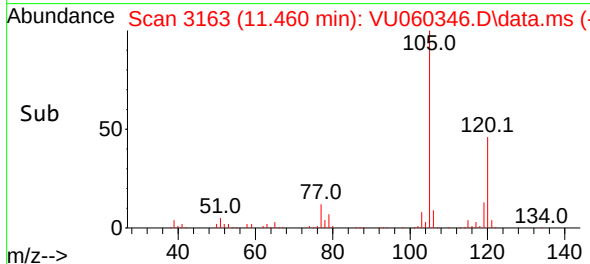
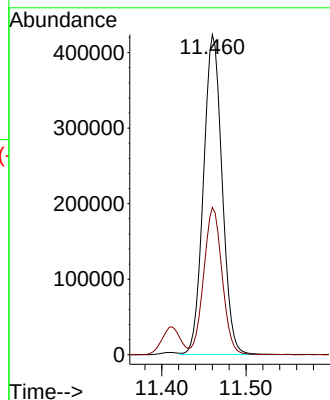
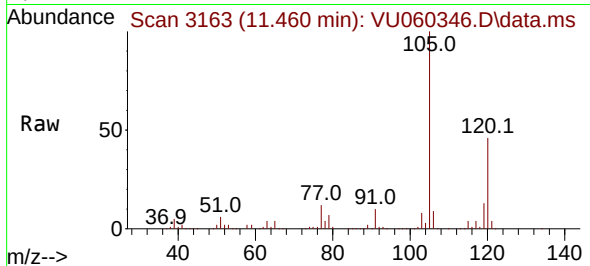




#78
1,2,4-Trimethylbenzene
Concen: 16.567 ug/l
RT: 11.460 min Scan# 3163
Delta R.T. 0.000 min
Lab File: VU060346.D
Acq: 07 Aug 2024 19:34

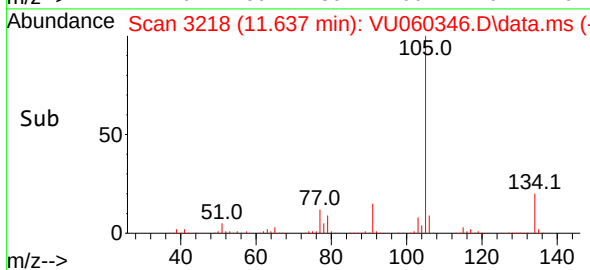
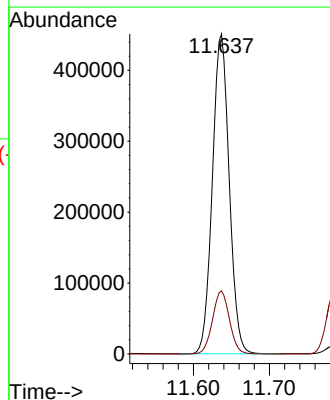
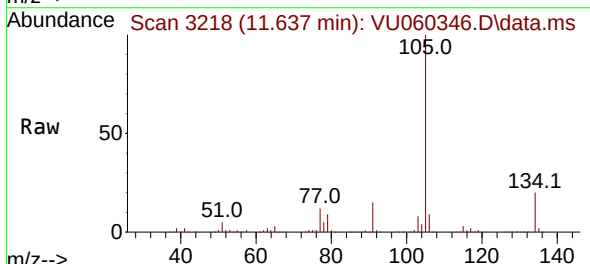
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

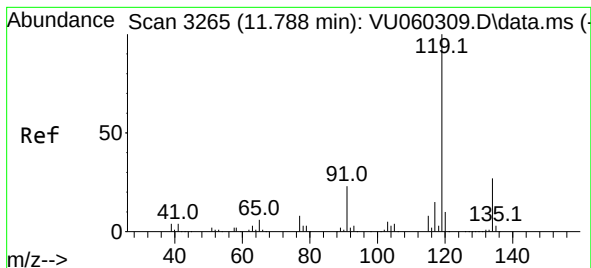
Tgt Ion:105 Resp: 651876
Ion Ratio Lower Upper
105 100
120 45.5 22.6 67.7



#79
sec-Butylbenzene
Concen: 14.262 ug/l
RT: 11.637 min Scan# 3218
Delta R.T. -0.000 min
Lab File: VU060346.D
Acq: 07 Aug 2024 19:34

Tgt Ion:105 Resp: 692623
Ion Ratio Lower Upper
105 100
134 19.8 15.5 23.3





#81

p-Isopropyltoluene

Concen: 12.720 ug/l

RT: 11.785 min Scan# 31

Delta R.T. -0.003 min

Lab File: VU060346.D

Acq: 07 Aug 2024 19:34

Instrument :

MSVOA_U

ClientSampleId :

PT-UNRVOA-WS

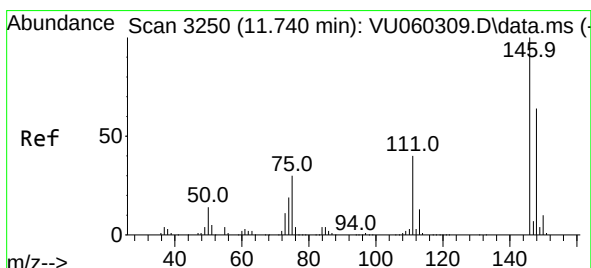
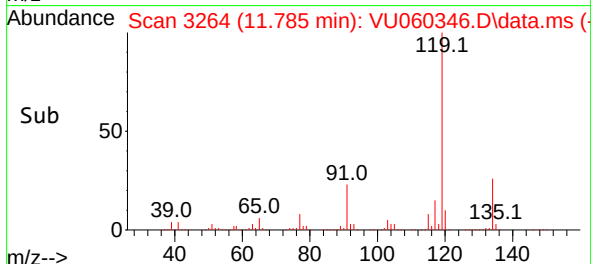
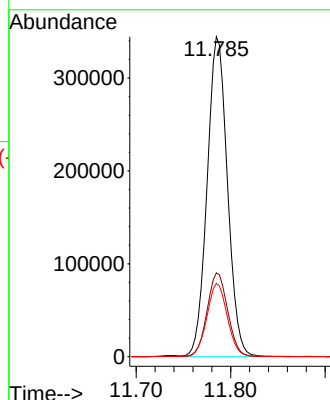
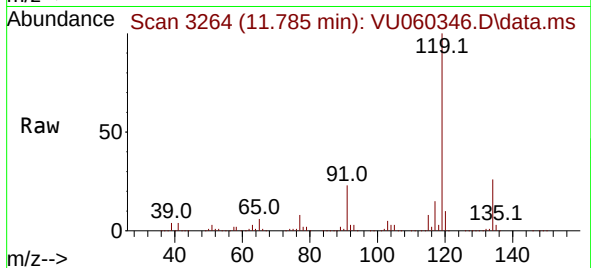
Tgt Ion:119 Resp: 512412

Ion Ratio Lower Upper

119 100

134 26.5 21.2 31.8

91 23.1 18.9 28.3



#82

1,3-Dichlorobenzene

Concen: 21.177 ug/l

RT: 11.737 min Scan# 3249

Delta R.T. -0.003 min

Lab File: VU060346.D

Acq: 07 Aug 2024 19:34

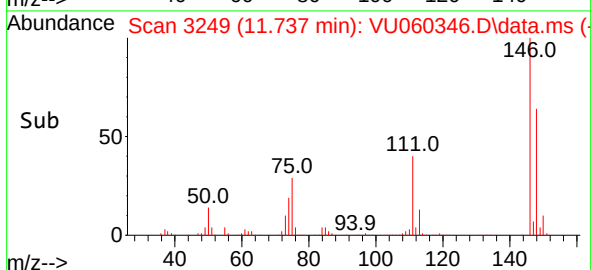
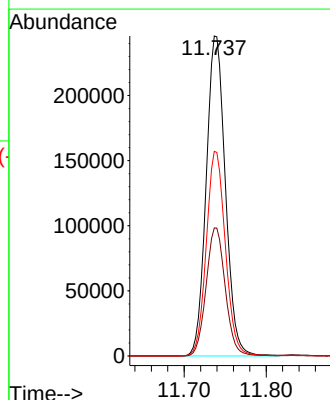
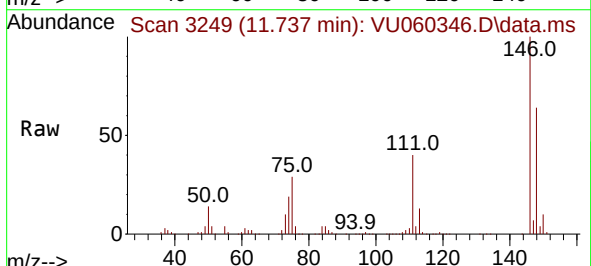
Tgt Ion:146 Resp: 398820

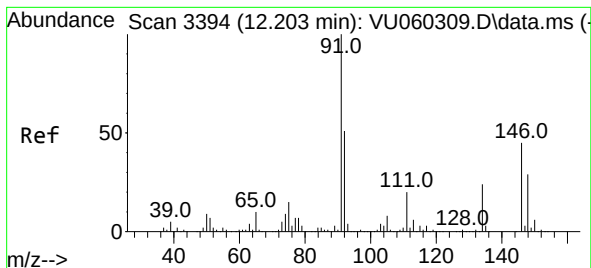
Ion Ratio Lower Upper

146 100

111 39.9 32.0 48.0

148 63.7 51.4 77.0





#84

n-Butylbenzene

Concen: 16.399 ug/l

RT: 12.203 min Scan# 31

Delta R.T. -0.000 min

Lab File: VU060346.D

Acq: 07 Aug 2024 19:34

Instrument :

MSVOA_U

ClientSampleId :

PT-UNRVOA-WS

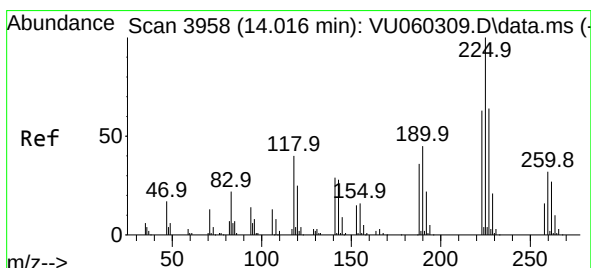
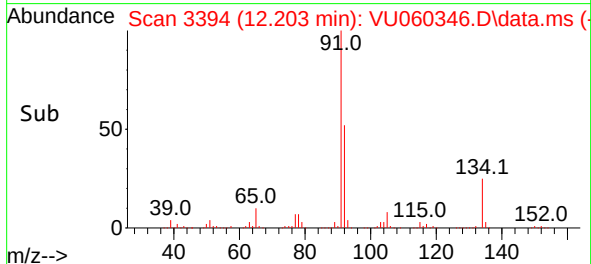
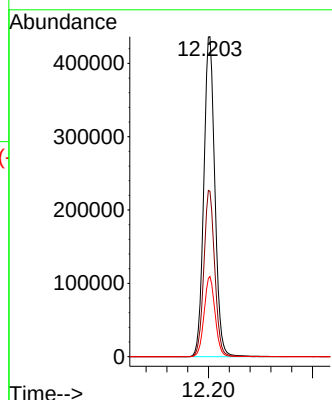
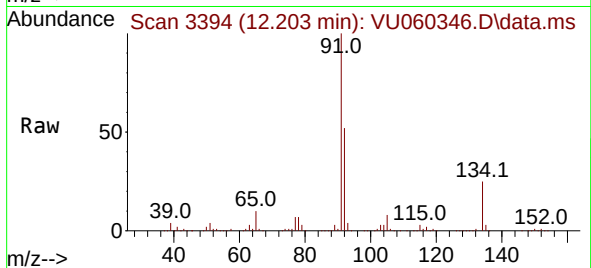
Tgt Ion: 91 Resp: 643542

Ion Ratio Lower Upper

91 100

92 51.3 41.0 61.6

134 24.9 19.4 29.2



#88

Hexachlorobutadiene

Concen: 8.727 ug/l

RT: 14.013 min Scan# 3957

Delta R.T. -0.003 min

Lab File: VU060346.D

Acq: 07 Aug 2024 19:34

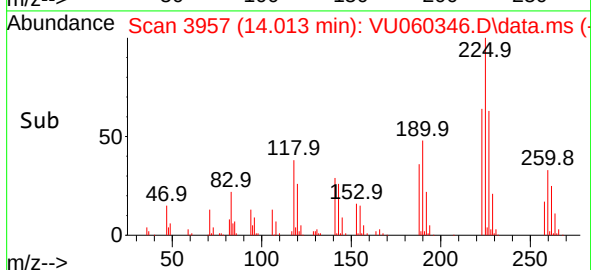
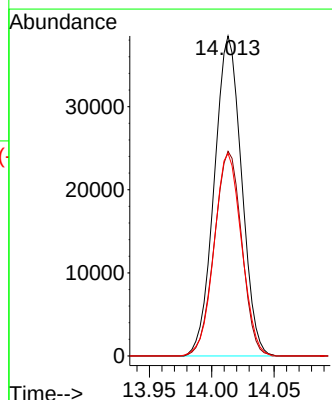
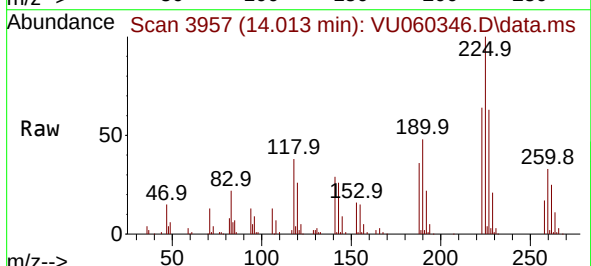
Tgt Ion: 225 Resp: 58790

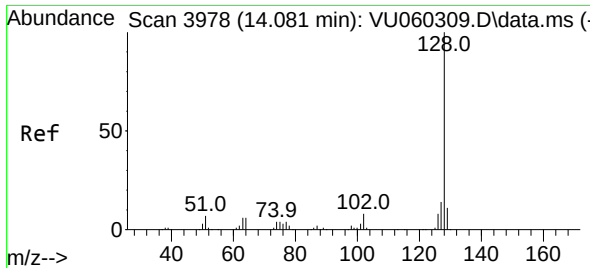
Ion Ratio Lower Upper

225 100

223 64.0 50.8 76.2

227 63.6 50.8 76.2

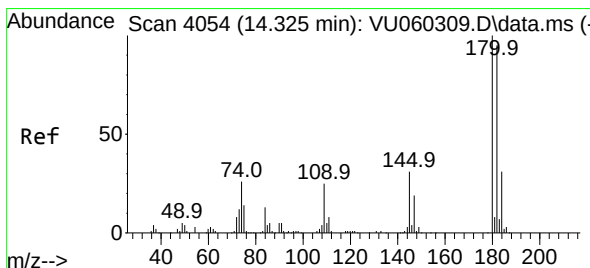
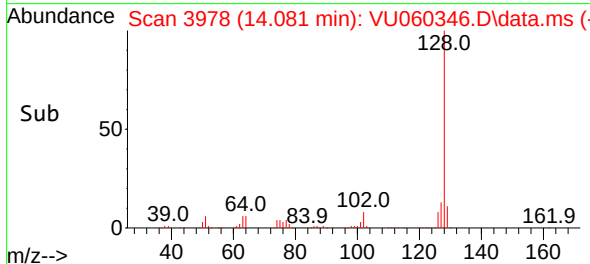
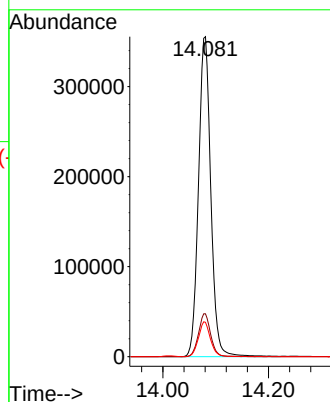
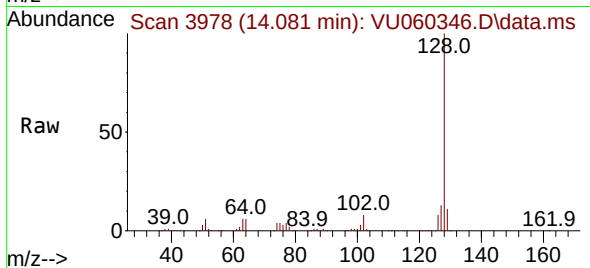




#89
Naphthalene
Concen: 31.152 ug/l
RT: 14.081 min Scan# 3978
Delta R.T. -0.000 min
Lab File: VU060346.D
Acq: 07 Aug 2024 19:34

Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

Tgt Ion:	128	Resp:	574224
Ion	Ratio	Lower	Upper
128	100		
127	13.2	11.0	16.4
129	10.6	8.6	12.8



#90
1,2,3-Trichlorobenzene
Concen: 57.834 ug/l
RT: 14.322 min Scan# 4053
Delta R.T. -0.003 min
Lab File: VU060346.D
Acq: 07 Aug 2024 19:34

Tgt Ion:	180	Resp:	588246
Ion	Ratio	Lower	Upper
180	100		
182	96.8	76.1	114.1
145	31.5	25.0	37.6

