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 Data File : VU060324.D
 Acq On : 06 Aug 2024 15:49
 Operator : MD/SY
 Sample : P3204-08
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 13 Sample Multiplier: 1

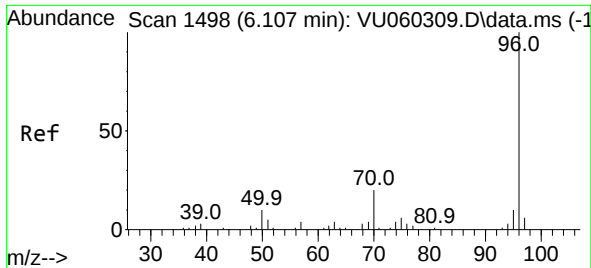
Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WS

Quant Time: Aug 07 07:02:47 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	6.110	96	32423	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.630	95	12653	1.145	ug/l	0.00
Spiked Amount 1.000			Recovery	=	115.000%	
68) 1,2-Dichlorobenzene-d4	12.190	152	13954	1.163	ug/l	0.00
Spiked Amount 1.000			Recovery	=	116.000%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.518	50	256566	17.994	ug/l	100
5) Bromomethane	1.853	94	382146	43.631	ug/l	99
15) Methylene Chloride	3.036	84	12320	1.015	ug/l	93
17) 1,1-Dichloroethane	3.859	63	192332	9.632	ug/l	98
21) 2,2-Dichloropropane	4.656	77	239518	15.402	ug/l	97
25) Methyl tert-Butyl Ether	3.357	73	621478	26.117	ug/l	98
26) Bromochloromethane	4.968	128	63273	13.430	ug/l	91
29) 1,1-Dichloropropene	5.521	75	146301	11.249	ug/l	99
37) Trichloroethene	6.540	130	4439	0.447	ug/l	89
43) Dibromomethane	6.910	93	115948	21.142	ug/l	99
50) t-1,3-Dichloropropene	8.203	75	190160	17.493	ug/l	99
51) cis-1,3-Dichloropropene	7.602	75	92051	7.039	ug/l	98
53) 1,3-Dichloropropane	8.569	76	277623	21.613	ug/l	99
60) 1,1,1,2-Tetrachloroethane	9.528	131	201686	21.277	ug/l	98
69) Isopropylbenzene	10.479	105	511801	11.223	ug/l	99
70) 1,1,2,2-Tetrachloroethane	10.775	83	216972	20.254	ug/l	98
71) 1,2,3-Trichloropropane	10.817	75	133474	16.822	ug/l	85
72) Bromobenzene	10.778	156	35795	3.623	ug/l	94
73) n-propylbenzene	10.900	120	186352	14.100	ug/l	98
74) 2-Chlorotoluene	10.981	126	212099	18.177	ug/l	98
75) 1,3,5-Trimethylbenzene	11.084	105	264848	6.702	ug/l	100
76) 4-Chlorotoluene	11.090	126	110238	9.160	ug/l	92
77) tert-Butylbenzene	11.415	119	575118	14.820	ug/l	90
78) 1,2,4-Trimethylbenzene	11.463	105	667170	15.524	ug/l	99
79) sec-Butylbenzene	11.637	105	697149	13.152	ug/l	100
81) p-Isopropyltoluene	11.788	119	504181	11.488	ug/l	100
82) 1,3-Dichlorobenzene	11.740	146	396786	19.251	ug/l	99
84) n-Butylbenzene	12.203	91	640067	14.950	ug/l	99
88) Hexachlorobutadiene	14.016	225	57863	7.848	ug/l	99
89) Naphthalene	14.080	128	655519	32.494	ug/l	99
90) 1,2,3-Trichlorobenzene	14.322	180	631110	56.694	ug/l	99

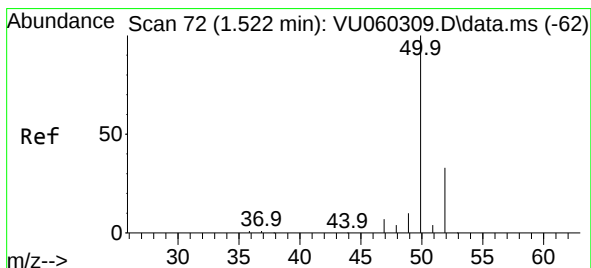
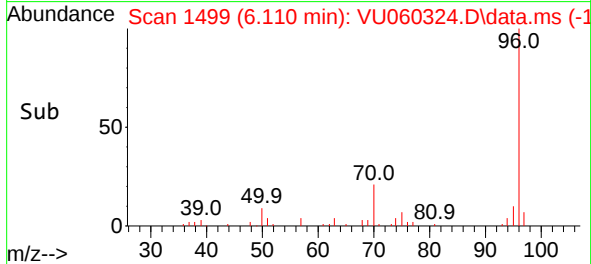
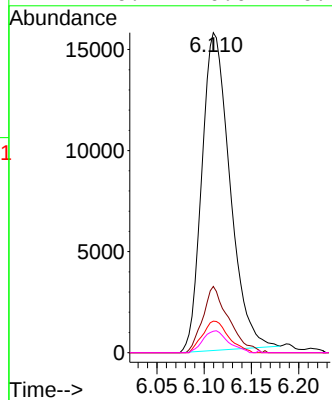
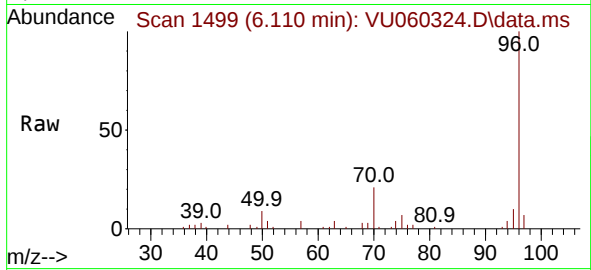
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.110 min Scan# 1498
Delta R.T. 0.003 min
Lab File: VU060324.D
Acq: 06 Aug 2024 15:49

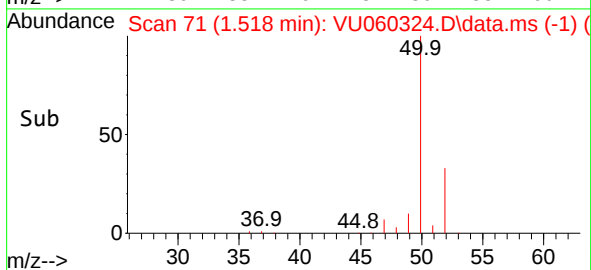
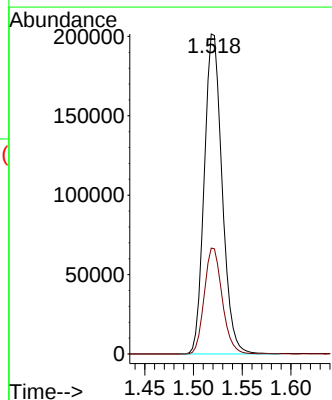
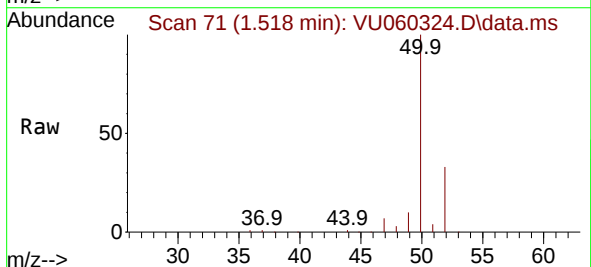
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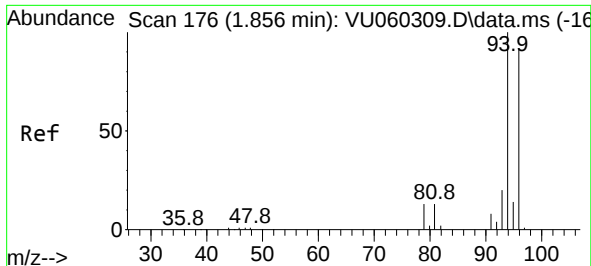
Tgt Ion: 96 Resp: 32423
Ion Ratio Lower Upper
96 100
70 19.2 17.2 25.8
95 9.2 7.9 11.9
97 6.2 0.0 0.0#



#3
Chloromethane
Concen: 17.994 ug/l
RT: 1.518 min Scan# 71
Delta R.T. -0.003 min
Lab File: VU060324.D
Acq: 06 Aug 2024 15:49

Tgt Ion: 50 Resp: 256566
Ion Ratio Lower Upper
50 100
52 33.1 26.5 39.7

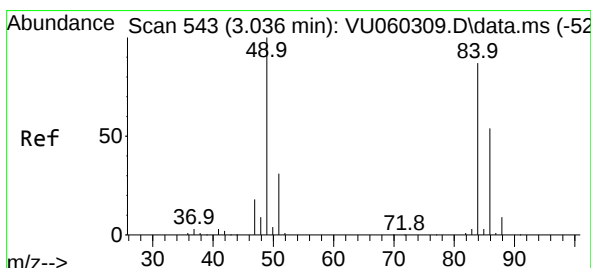
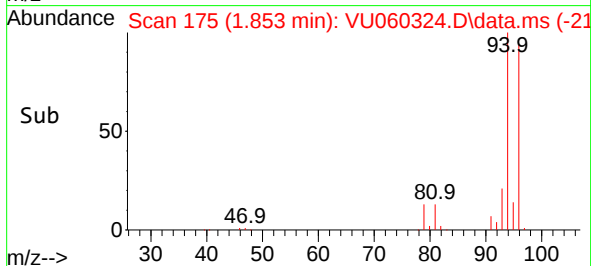
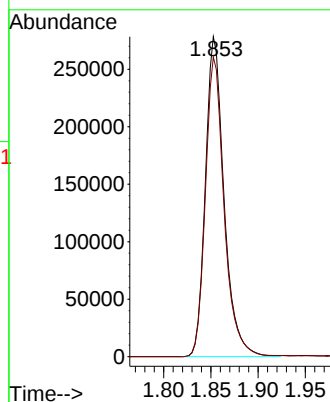
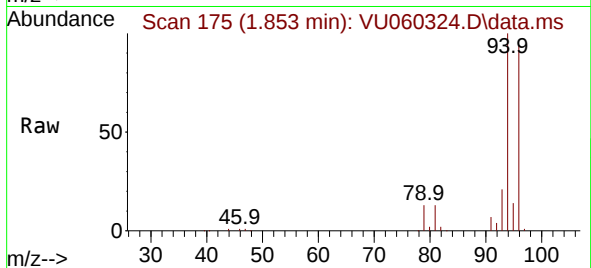




#5
Bromomethane
Concen: 43.631 ug/l
RT: 1.853 min Scan# 1
Delta R.T. -0.003 min
Lab File: VU060324.D
Acq: 06 Aug 2024 15:49

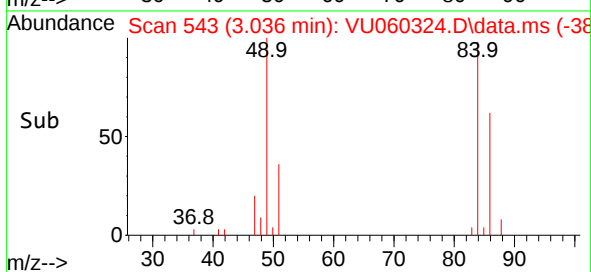
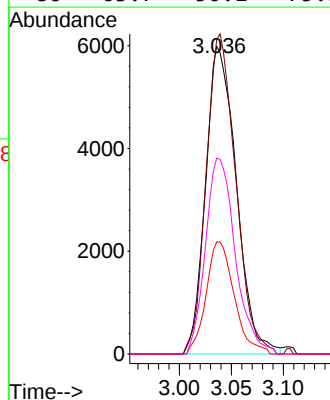
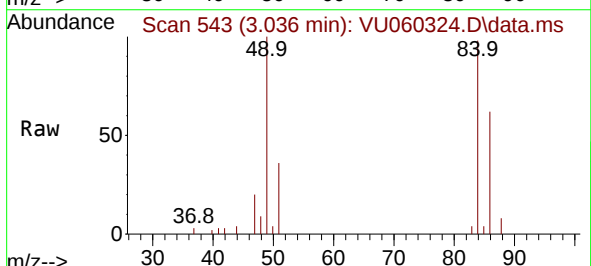
Instrument :
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ClientSampleId :
PT-UNRVOA-WS

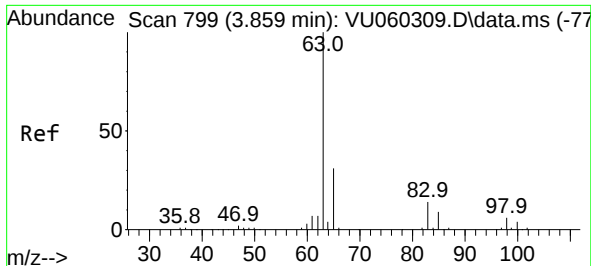
Tgt Ion: 94 Resp: 382146
Ion Ratio Lower Upper
94 100
96 93.7 73.8 110.8



#15
Methylene Chloride
Concen: 1.015 ug/l
RT: 3.036 min Scan# 543
Delta R.T. -0.000 min
Lab File: VU060324.D
Acq: 06 Aug 2024 15:49

Tgt Ion: 84 Resp: 12320
Ion Ratio Lower Upper
84 100
49 102.2 92.1 138.1
51 36.4 0.0 72.4
86 63.7 50.1 75.1

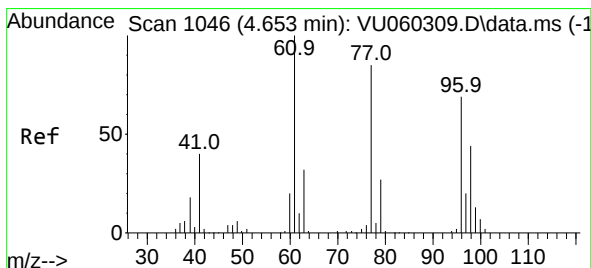
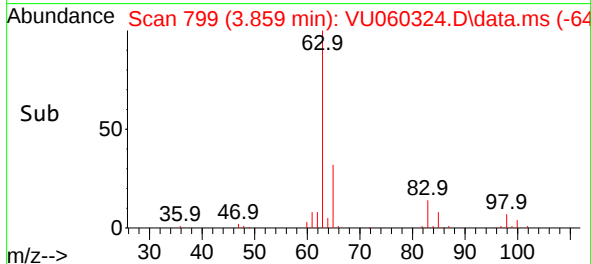
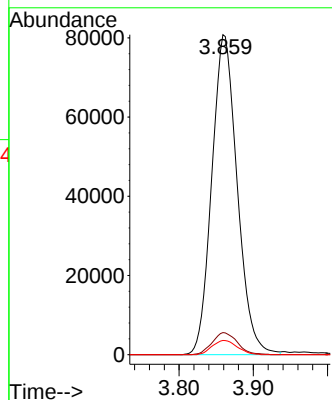
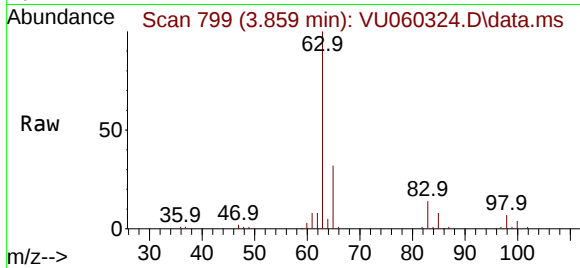




#17
 1,1-Dichloroethane
 Concen: 9.632 ug/l
 RT: 3.859 min Scan# 799
 Delta R.T. -0.000 min
 Lab File: VU060324.D
 Acq: 06 Aug 2024 15:49

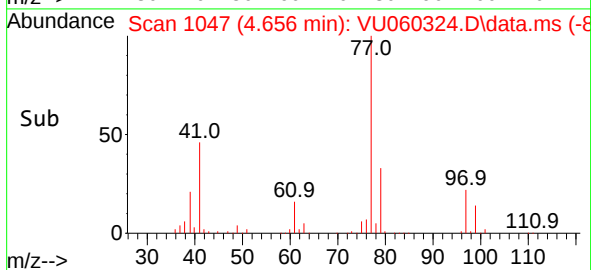
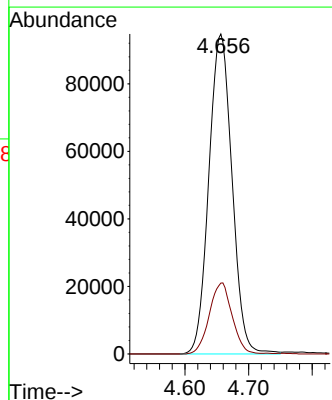
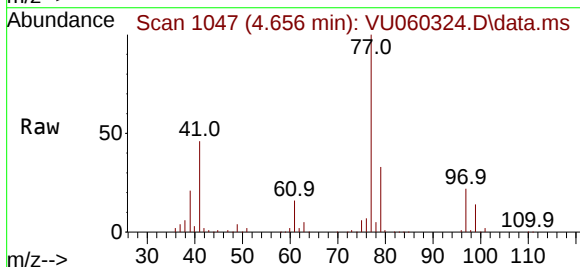
Instrument :
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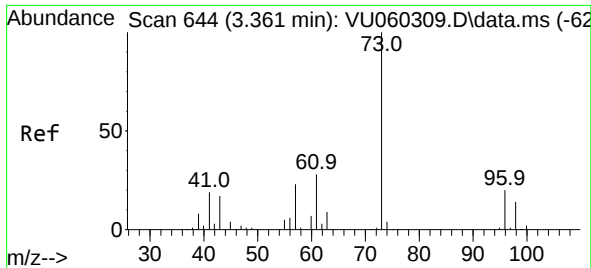
Tgt Ion: 63 Resp: 192332
 Ion Ratio Lower Upper
 63 100
 98 6.9 3.1 9.4
 100 4.4 2.0 5.8



#21
 2,2-Dichloropropane
 Concen: 15.402 ug/l
 RT: 4.656 min Scan# 1047
 Delta R.T. 0.003 min
 Lab File: VU060324.D
 Acq: 06 Aug 2024 15:49

Tgt Ion: 77 Resp: 239518
 Ion Ratio Lower Upper
 77 100
 97 21.9 18.6 27.8

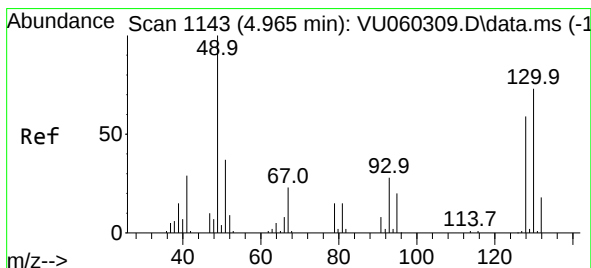
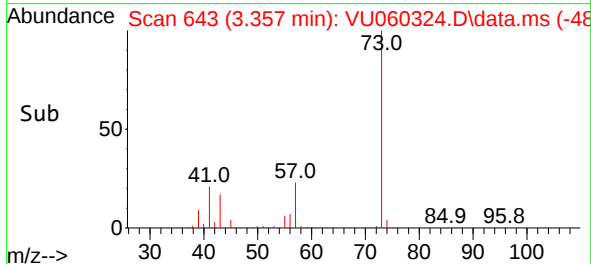
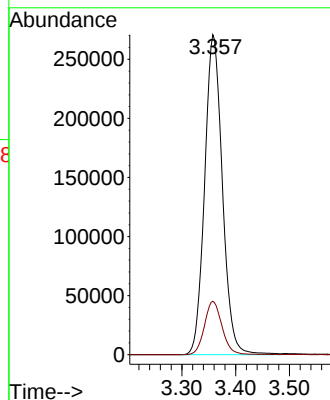
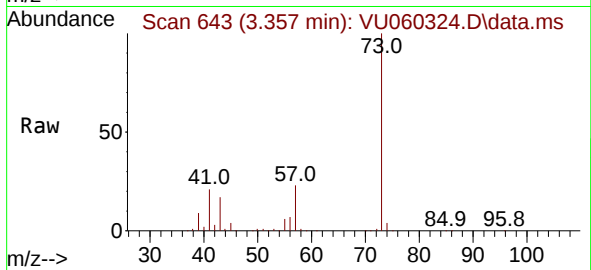




#25
Methyl tert-Butyl Ether
Concen: 26.117 ug/l
RT: 3.357 min Scan# 64
Delta R.T. -0.003 min
Lab File: VU060324.D
Acq: 06 Aug 2024 15:49

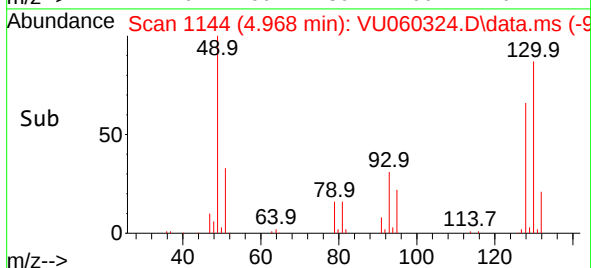
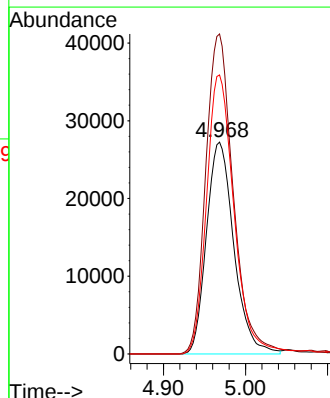
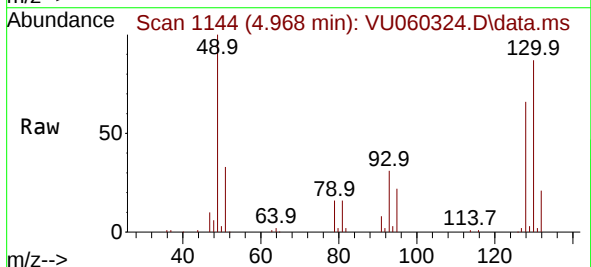
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ClientSampleId :
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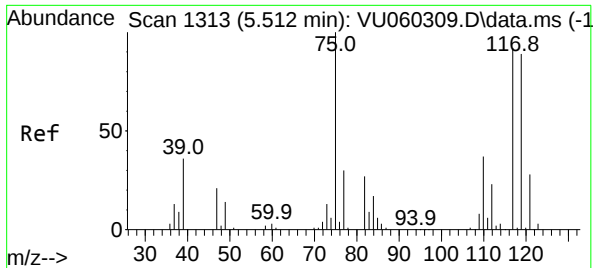
Tgt Ion: 73 Resp: 621478
Ion Ratio Lower Upper
73 100
43 16.5 14.1 21.1



#26
Bromochloromethane
Concen: 13.430 ug/l
RT: 4.968 min Scan# 1144
Delta R.T. 0.003 min
Lab File: VU060324.D
Acq: 06 Aug 2024 15:49

Tgt Ion: 128 Resp: 63273
Ion Ratio Lower Upper
128 100
49 152.2 0.0 340.8
130 132.4 102.1 153.1

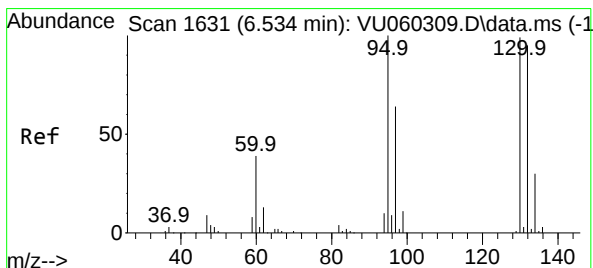
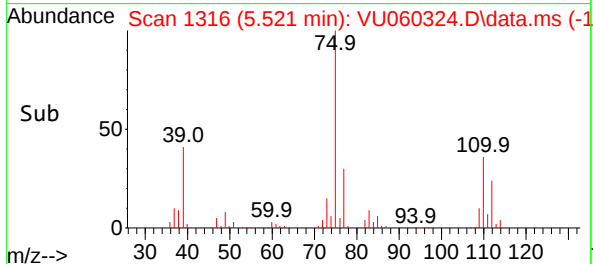
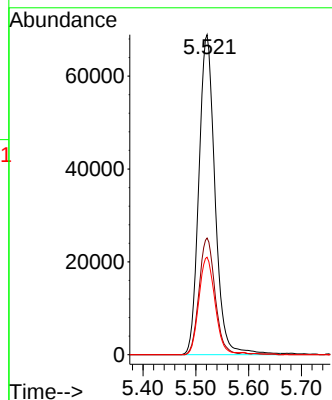
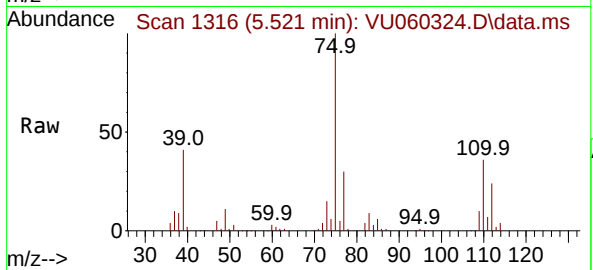




#29
1,1-Dichloropropene
Concen: 11.249 ug/l
RT: 5.521 min Scan# 11
Delta R.T. 0.009 min
Lab File: VU060324.D
Acq: 06 Aug 2024 15:49

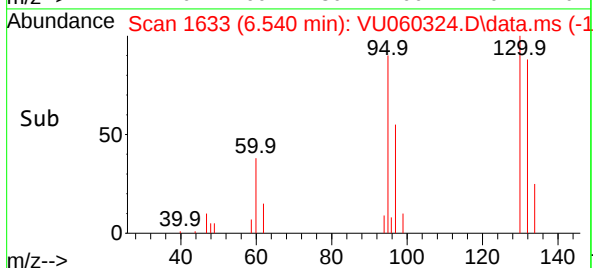
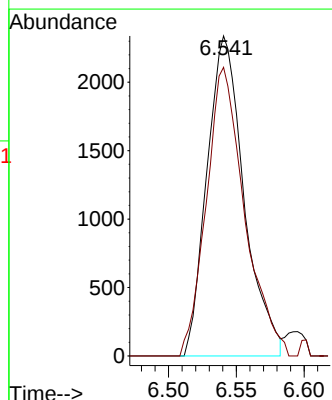
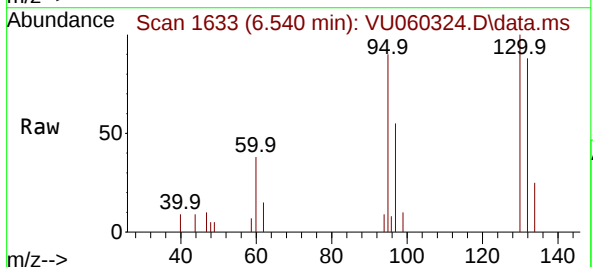
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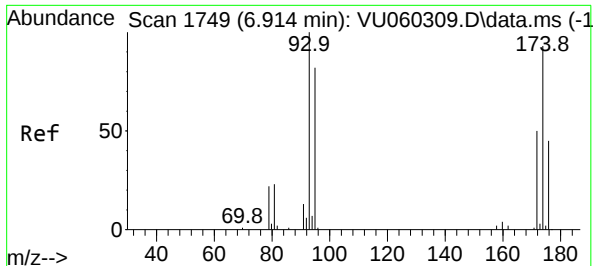
Tgt Ion: 75 Resp: 146301
Ion Ratio Lower Upper
75 100
110 36.0 18.4 55.2
77 30.2 24.8 37.2



#37
Trichloroethene
Concen: 0.447 ug/l
RT: 6.540 min Scan# 1633
Delta R.T. 0.006 min
Lab File: VU060324.D
Acq: 06 Aug 2024 15:49

Tgt Ion: 130 Resp: 4439
Ion Ratio Lower Upper
130 100
95 90.2 80.6 121.0

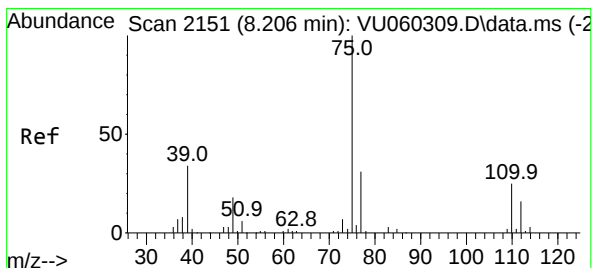
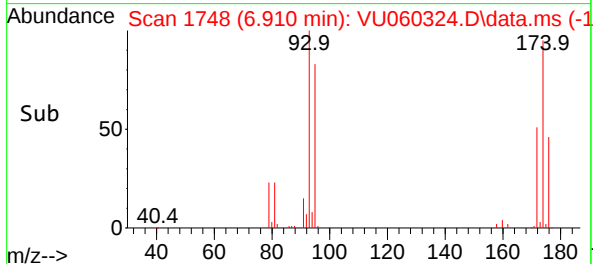
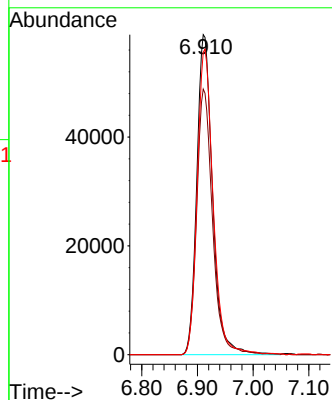
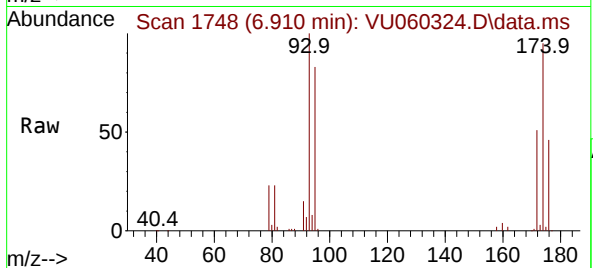




#43
Dibromomethane
Concen: 21.142 ug/l
RT: 6.910 min Scan# 11
Delta R.T. -0.003 min
Lab File: VU060324.D
Acq: 06 Aug 2024 15:49

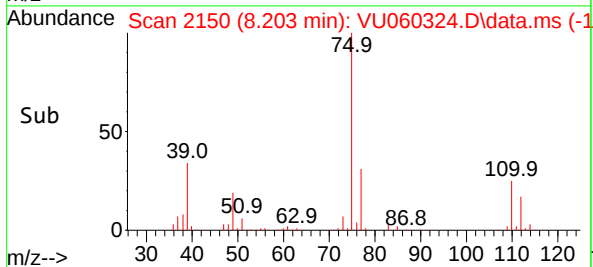
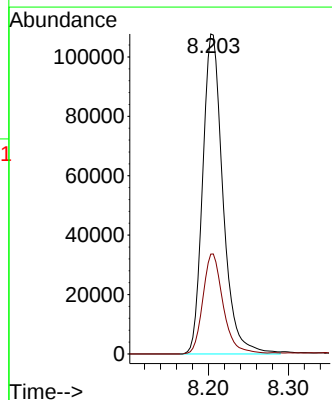
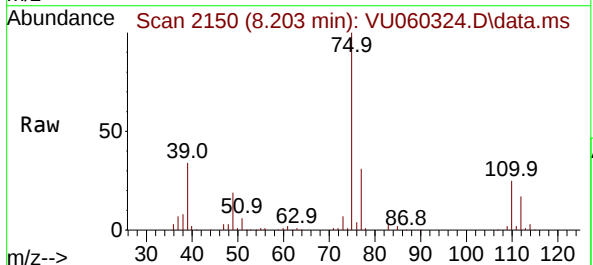
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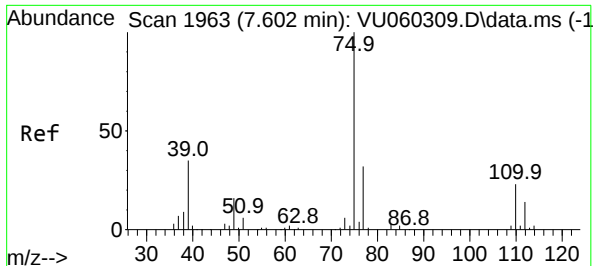
Tgt Ion: 93 Resp: 115948
Ion Ratio Lower Upper
93 100
95 83.4 66.4 99.6
174 96.4 75.2 112.8



#50
t-1,3-Dichloropropene
Concen: 17.493 ug/l
RT: 8.203 min Scan# 2150
Delta R.T. -0.003 min
Lab File: VU060324.D
Acq: 06 Aug 2024 15:49

Tgt Ion: 75 Resp: 190160
Ion Ratio Lower Upper
75 100
77 31.2 24.6 37.0

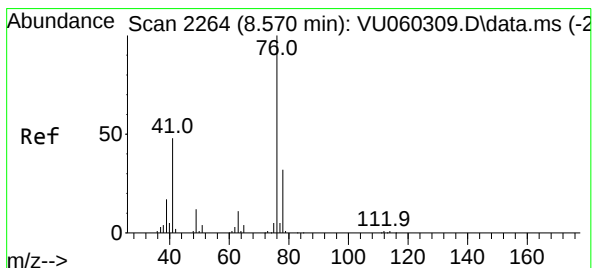
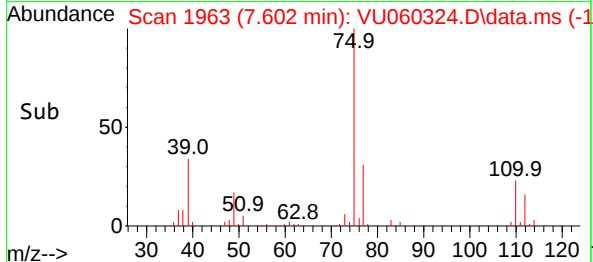
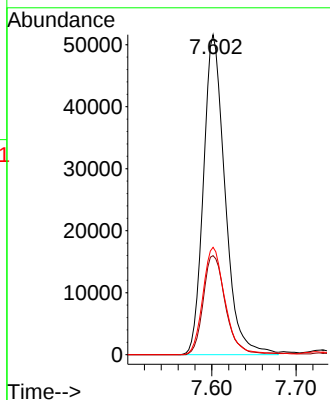
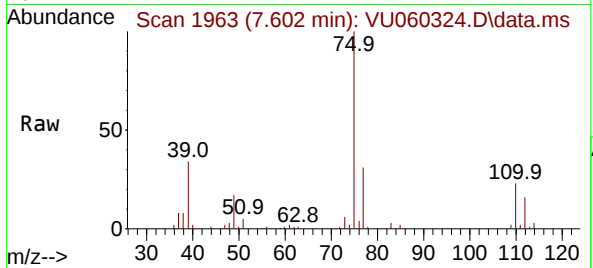




#51
 cis-1,3-Dichloropropene
 Concen: 7.039 ug/l
 RT: 7.602 min Scan# 1963
 Delta R.T. -0.000 min
 Lab File: VU060324.D
 Acq: 06 Aug 2024 15:49

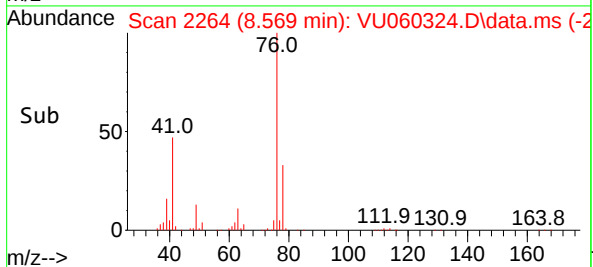
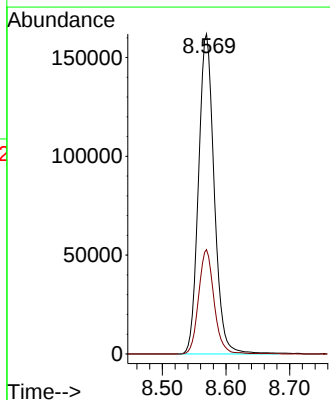
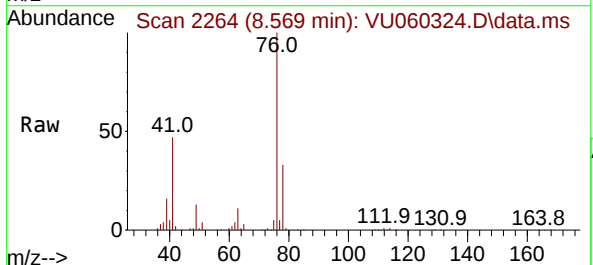
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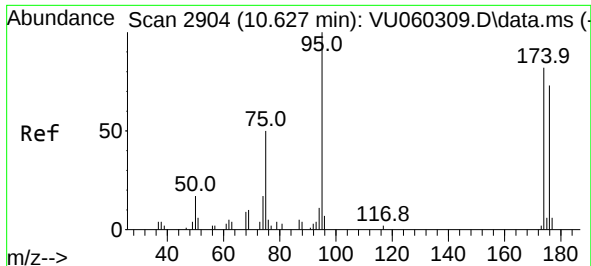
Tgt Ion:	75	Resp:	92051
Ion	Ratio	Lower	Upper
75	100		
77	30.9	25.4	38.0
39	33.2	28.0	42.0



#53
 1,3-Dichloropropane
 Concen: 21.613 ug/l
 RT: 8.569 min Scan# 2264
 Delta R.T. -0.000 min
 Lab File: VU060324.D
 Acq: 06 Aug 2024 15:49

Tgt Ion:	76	Resp:	277623
Ion	Ratio	Lower	Upper
76	100		
78	32.0	26.2	39.2

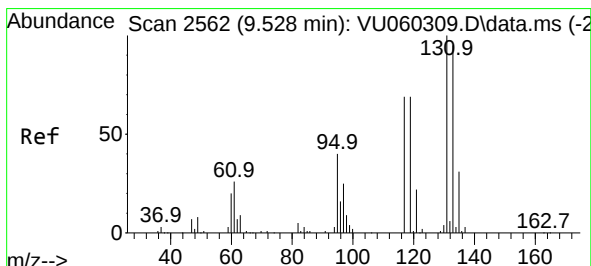
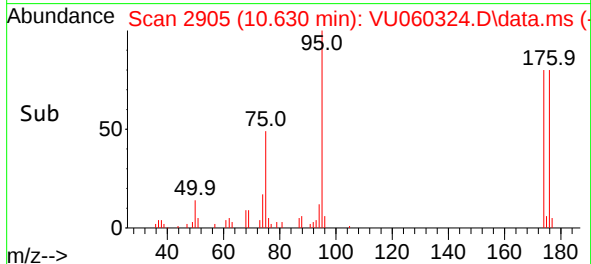
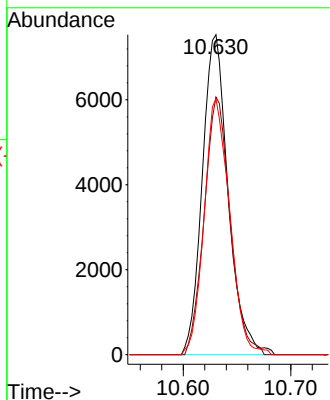
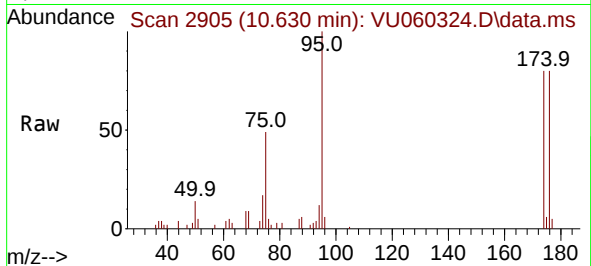




#57
 4-Bromofluorobenzene
 Concen: 1.145 ug/l
 RT: 10.630 min Scan# 2905
 Delta R.T. 0.003 min
 Lab File: VU060324.D
 Acq: 06 Aug 2024 15:49

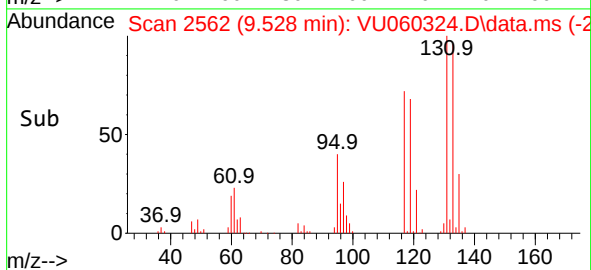
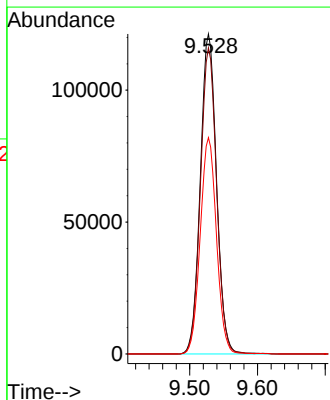
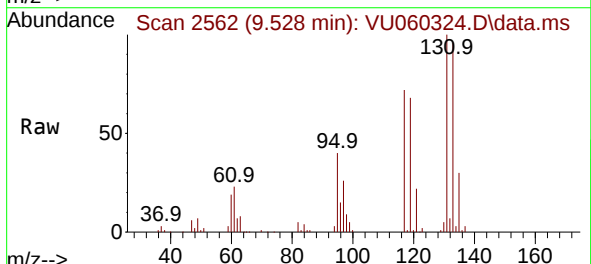
Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WS

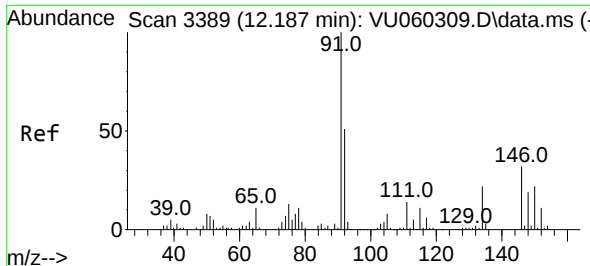
Tgt Ion: 95 Resp: 12653
 Ion Ratio Lower Upper
 95 100
 174 79.9 65.6 98.4
 176 79.0 60.4 90.6



#60
 1,1,1,2-Tetrachloroethane
 Concen: 21.277 ug/l
 RT: 9.528 min Scan# 2562
 Delta R.T. -0.000 min
 Lab File: VU060324.D
 Acq: 06 Aug 2024 15:49

Tgt Ion: 131 Resp: 201686
 Ion Ratio Lower Upper
 131 100
 133 95.2 77.2 115.8
 119 67.7 55.4 83.2

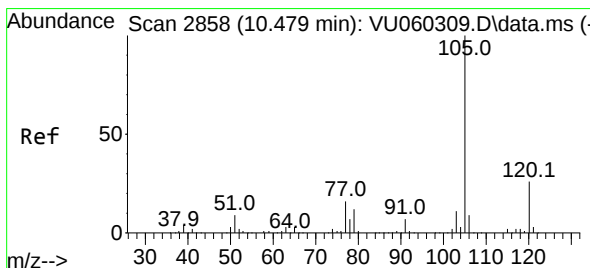
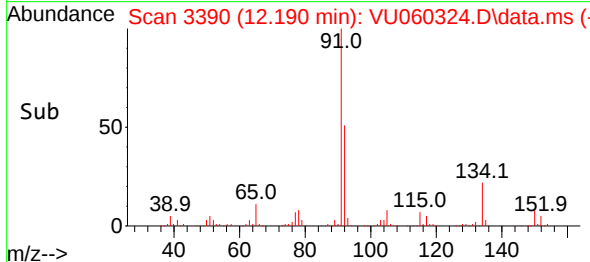
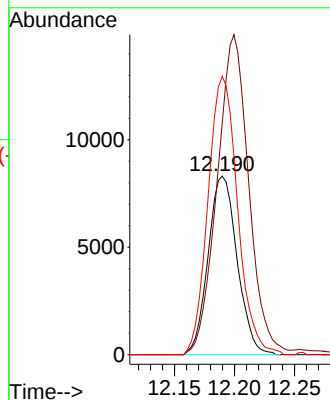
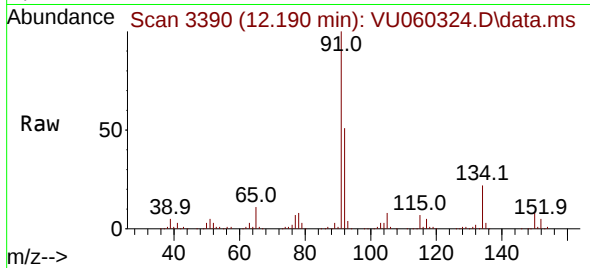




#68
 1,2-Dichlorobenzene-d4
 Concen: 1.163 ug/l
 RT: 12.190 min Scan# 31
 Delta R.T. 0.003 min
 Lab File: VU060324.D
 Acq: 06 Aug 2024 15:49

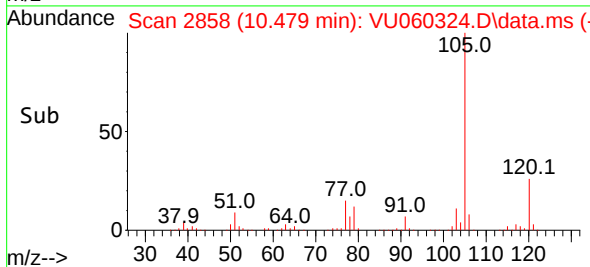
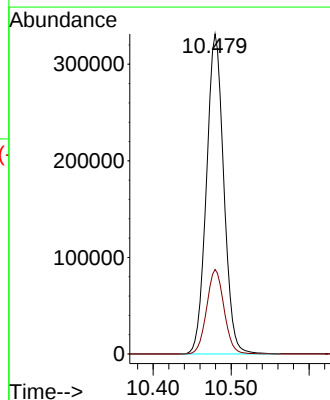
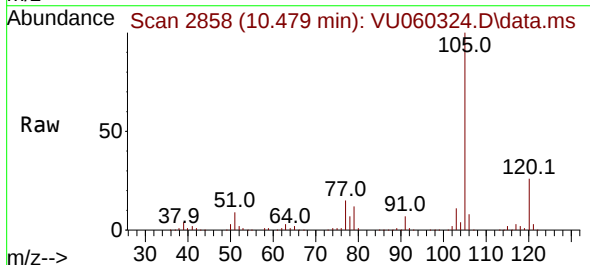
Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WS

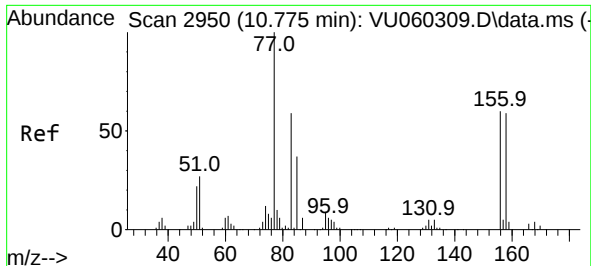
Tgt Ion:152 Resp: 13954
 Ion Ratio Lower Upper
 152 100
 115 195.5 0.0 325.2
 150 159.1 0.0 684.2



#69
 Isopropylbenzene
 Concen: 11.223 ug/l
 RT: 10.479 min Scan# 2858
 Delta R.T. 0.000 min
 Lab File: VU060324.D
 Acq: 06 Aug 2024 15:49

Tgt Ion:105 Resp: 511801
 Ion Ratio Lower Upper
 105 100
 120 26.5 13.0 39.0

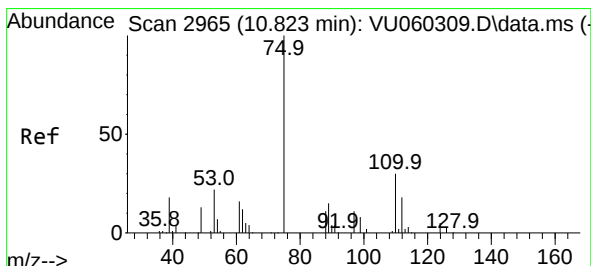
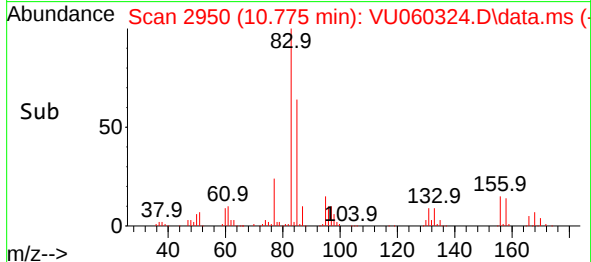
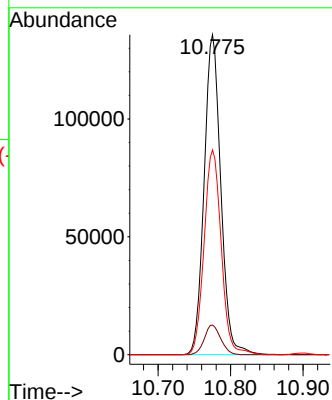
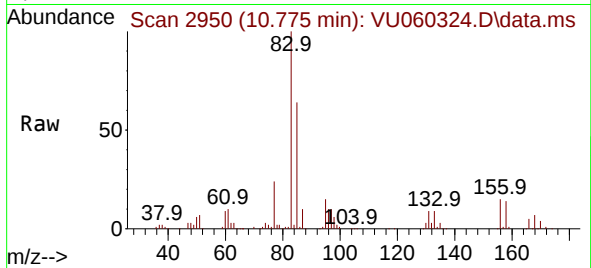




#70
1,1,2,2-Tetrachloroethane
Concen: 20.254 ug/l
RT: 10.775 min Scan# 2950
Delta R.T. -0.000 min
Lab File: VU060324.D
Acq: 06 Aug 2024 15:49

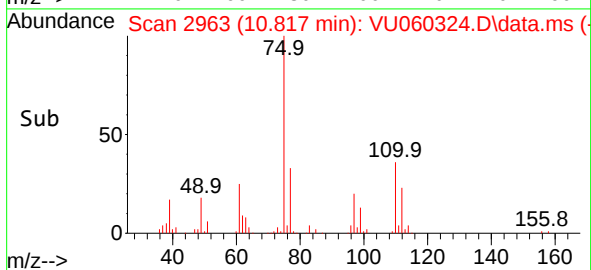
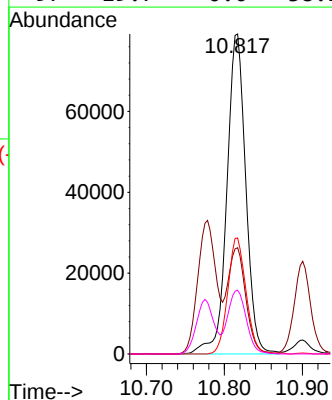
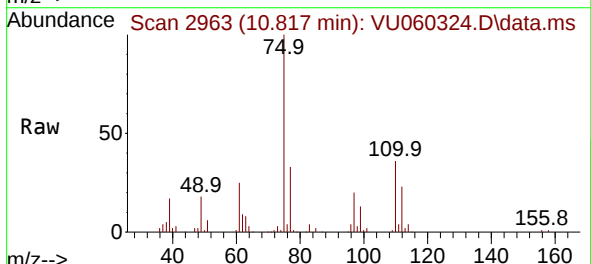
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

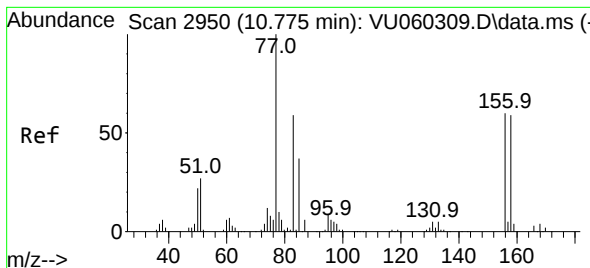
Tgt Ion: 83 Resp: 216972
Ion Ratio Lower Upper
83 100
131 9.1 7.1 10.7
85 65.5 50.9 76.3



#71
1,2,3-Trichloropropane
Concen: 16.822 ug/l
RT: 10.817 min Scan# 2963
Delta R.T. -0.007 min
Lab File: VU060324.D
Acq: 06 Aug 2024 15:49

Tgt Ion: 75 Resp: 133474
Ion Ratio Lower Upper
75 100
77 31.7 0.0 102.2
110 35.0 0.0 67.4
97 19.7 0.0 38.2





#72

Bromobenzene

Concen: 3.623 ug/l

RT: 10.778 min Scan# 2950

Delta R.T. 0.003 min

Lab File: VU060324.D

Acq: 06 Aug 2024 15:49

Instrument :

MSVOA_U

ClientSampleId :

PT-UNRVOA-WS

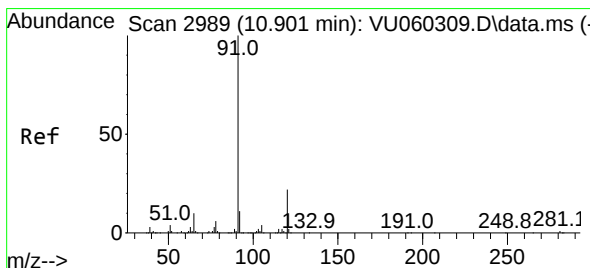
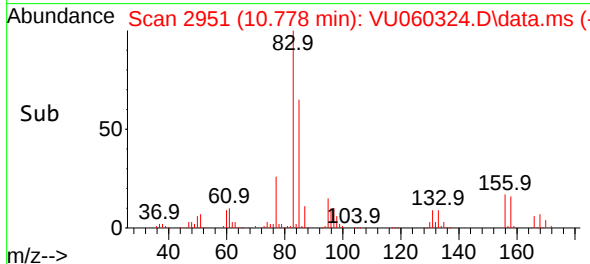
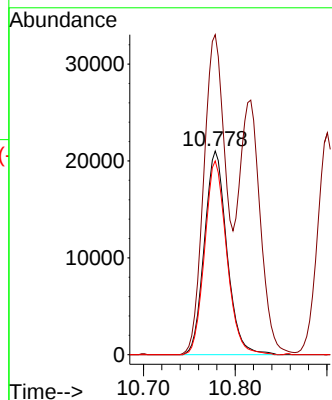
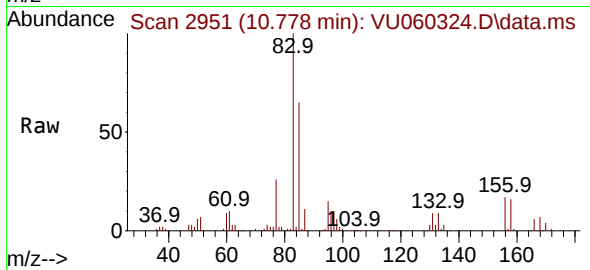
Tgt Ion:156 Resp: 35795

Ion Ratio Lower Upper

156 100

77 154.3 0.0 327.2

158 93.3 0.0 193.8



#73

n-propylbenzene

Concen: 14.100 ug/l

RT: 10.900 min Scan# 2989

Delta R.T. -0.001 min

Lab File: VU060324.D

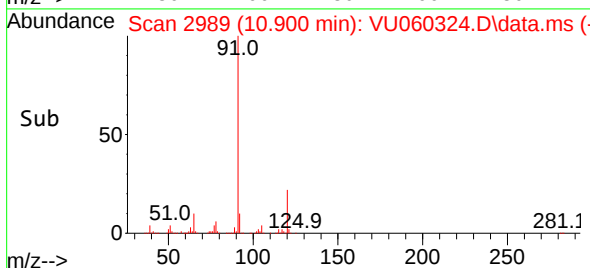
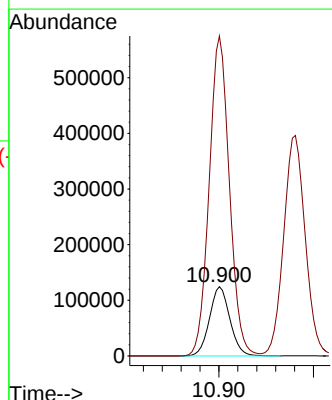
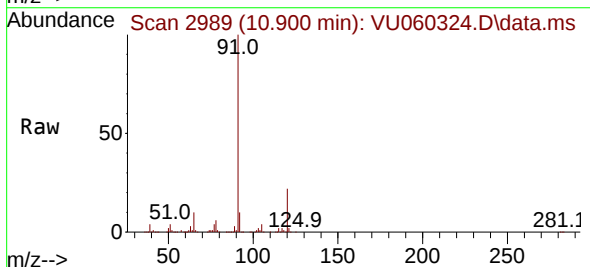
Acq: 06 Aug 2024 15:49

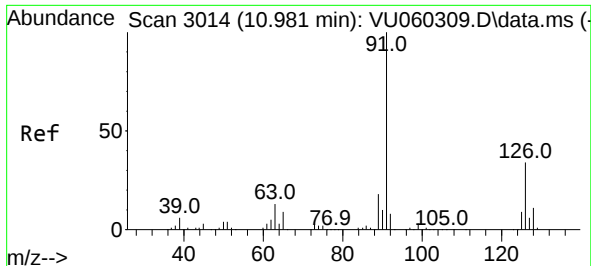
Tgt Ion:120 Resp: 186352

Ion Ratio Lower Upper

120 100

91 457.3 362.2 543.2

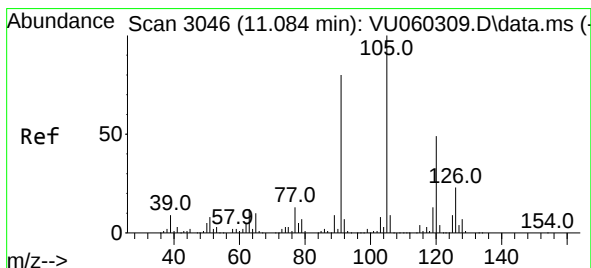
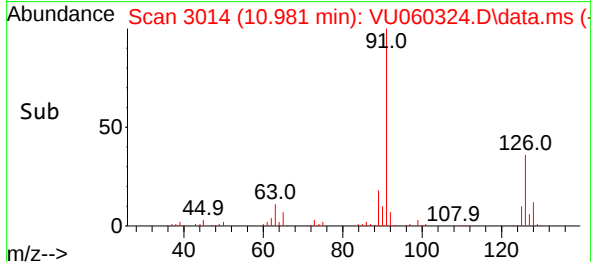
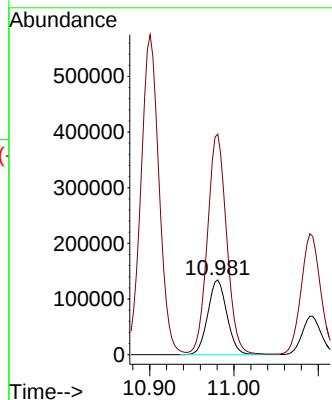
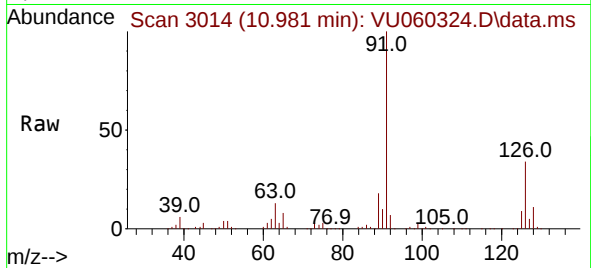




#74
2-Chlorotoluene
Concen: 18.177 ug/l
RT: 10.981 min Scan# 3014
Delta R.T. -0.000 min
Lab File: VU060324.D
Acq: 06 Aug 2024 15:49

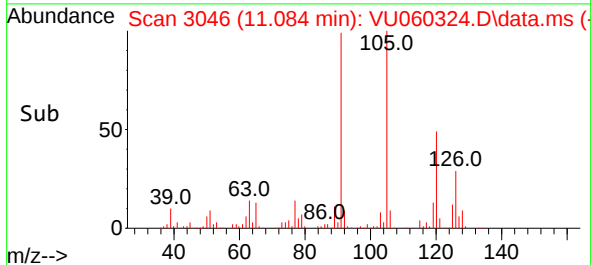
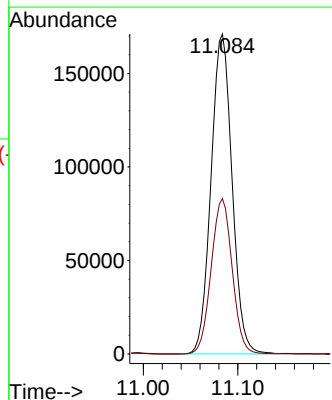
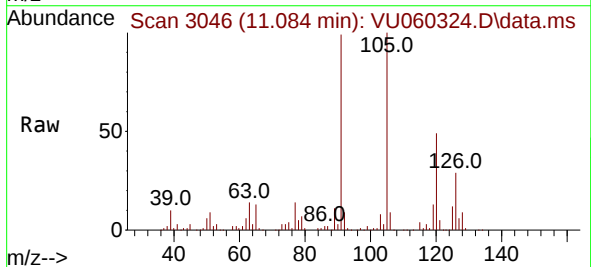
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

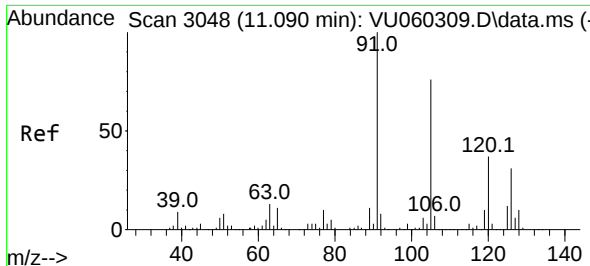
Tgt Ion:126 Resp: 212099
Ion Ratio Lower Upper
126 100
91 296.9 0.0 585.6



#75
1,3,5-Trimethylbenzene
Concen: 6.702 ug/l
RT: 11.084 min Scan# 3046
Delta R.T. -0.000 min
Lab File: VU060324.D
Acq: 06 Aug 2024 15:49

Tgt Ion:105 Resp: 264848
Ion Ratio Lower Upper
105 100
120 48.5 38.6 57.8

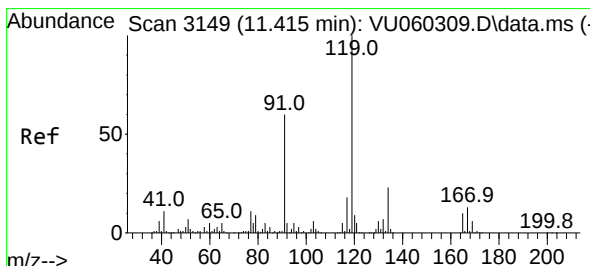
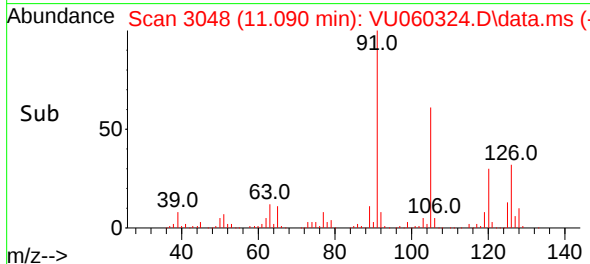
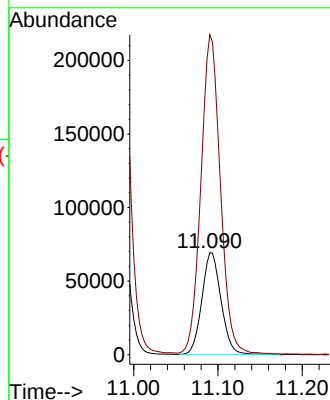
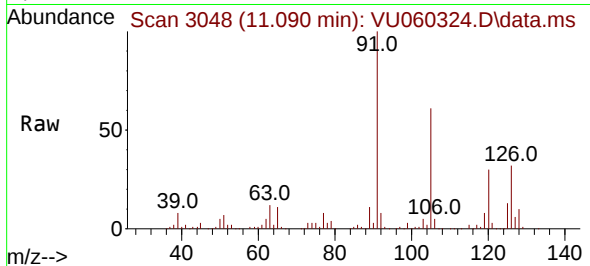




#76
4-Chlorotoluene
Concen: 9.160 ug/l
RT: 11.090 min Scan# 3048
Delta R.T. 0.000 min
Lab File: VU060324.D
Acq: 06 Aug 2024 15:49

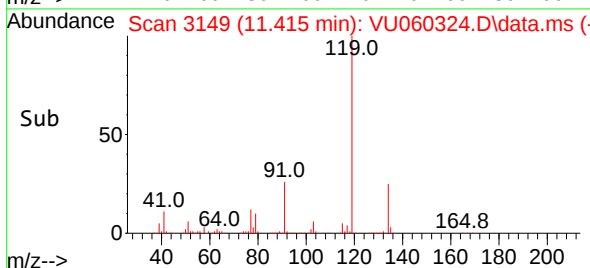
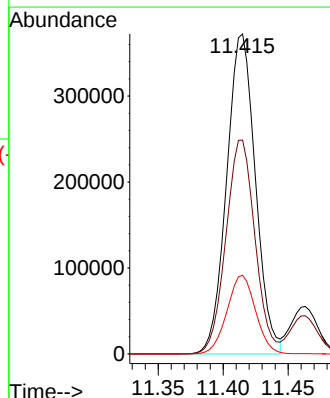
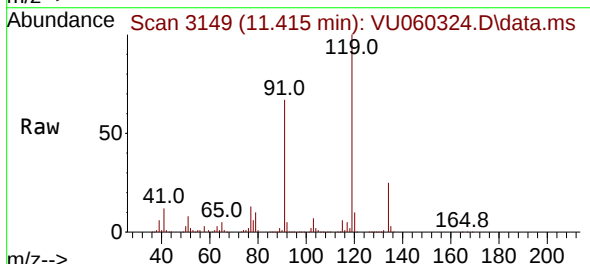
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

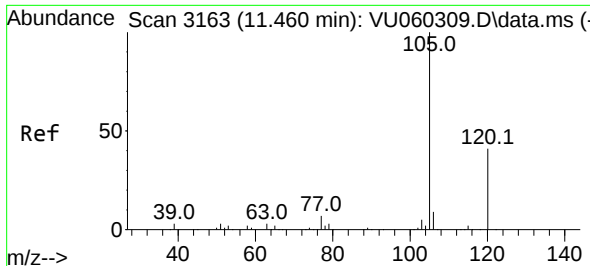
Tgt Ion:126 Resp: 110238
Ion Ratio Lower Upper
126 100
91 316.9 0.0 669.4



#77
tert-Butylbenzene
Concen: 14.820 ug/l
RT: 11.415 min Scan# 3149
Delta R.T. -0.000 min
Lab File: VU060324.D
Acq: 06 Aug 2024 15:49

Tgt Ion:119 Resp: 575118
Ion Ratio Lower Upper
119 100
91 67.5 29.0 87.1
134 24.5 17.8 26.8

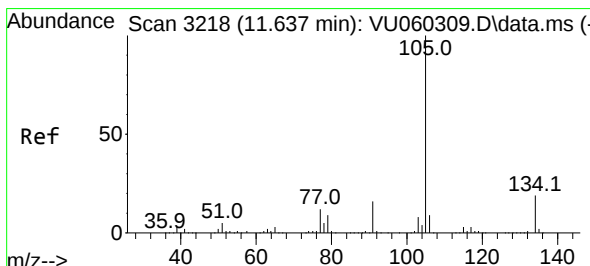
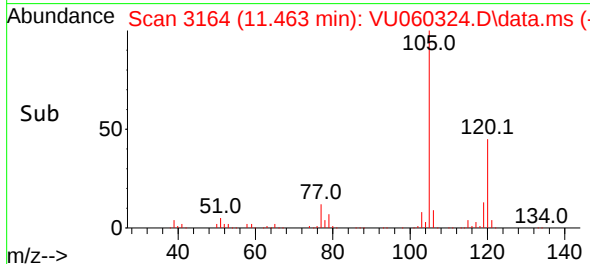
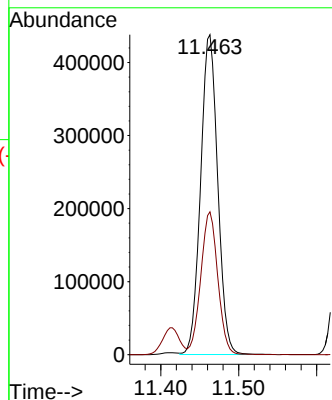
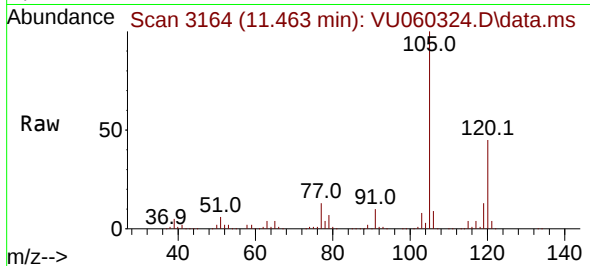




#78
1,2,4-Trimethylbenzene
Concen: 15.524 ug/l
RT: 11.463 min Scan# 3163
Delta R.T. 0.003 min
Lab File: VU060324.D
Acq: 06 Aug 2024 15:49

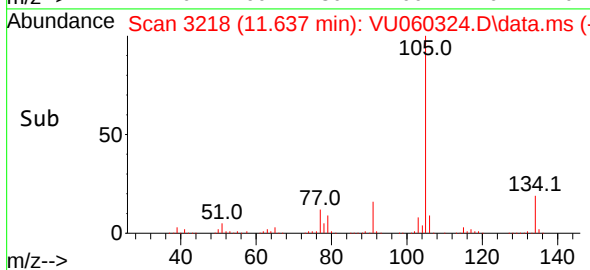
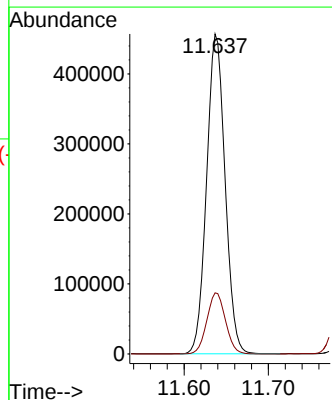
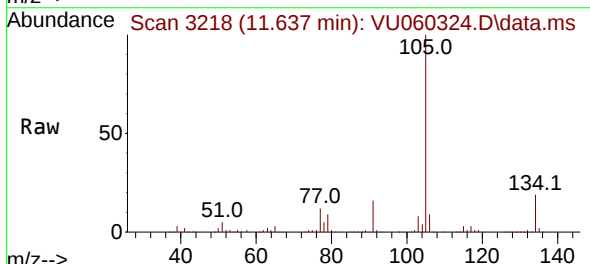
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

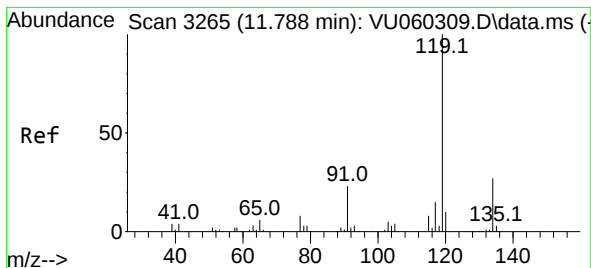
Tgt Ion:105 Resp: 667170
Ion Ratio Lower Upper
105 100
120 44.3 22.6 67.7



#79
sec-Butylbenzene
Concen: 13.152 ug/l
RT: 11.637 min Scan# 3218
Delta R.T. -0.000 min
Lab File: VU060324.D
Acq: 06 Aug 2024 15:49

Tgt Ion:105 Resp: 697149
Ion Ratio Lower Upper
105 100
134 19.3 15.5 23.3

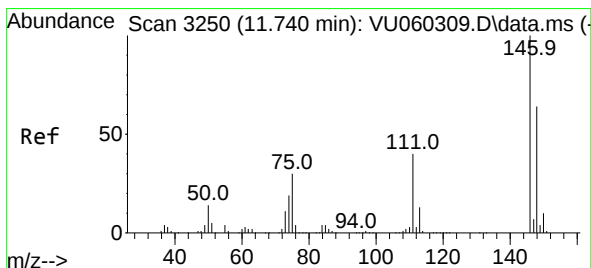
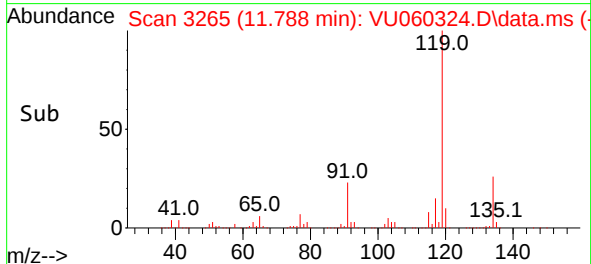
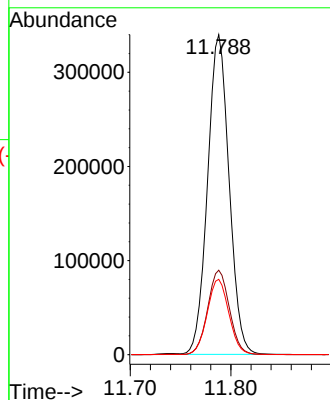
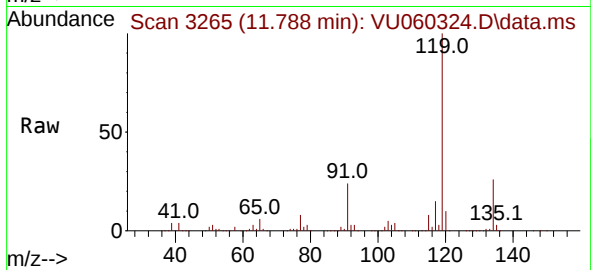




#81
 p-Isopropyltoluene
 Concen: 11.488 ug/l
 RT: 11.788 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: VU060324.D
 Acq: 06 Aug 2024 15:49

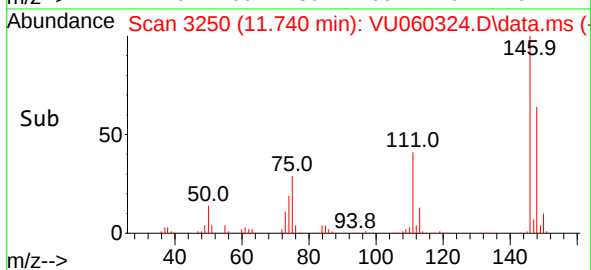
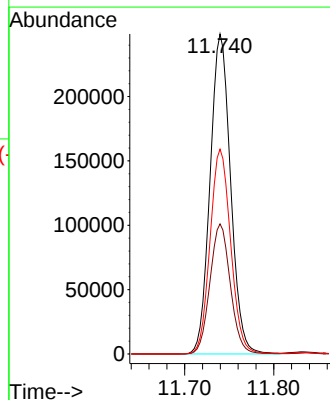
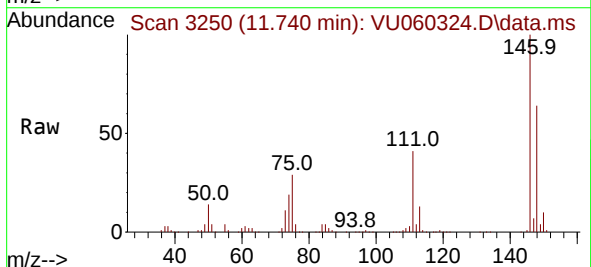
Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WS

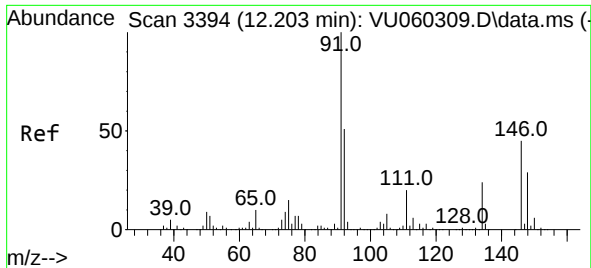
Tgt Ion:119 Resp: 504181
 Ion Ratio Lower Upper
 119 100
 134 26.8 21.2 31.8
 91 23.7 18.9 28.3



#82
 1,3-Dichlorobenzene
 Concen: 19.251 ug/l
 RT: 11.740 min Scan# 3250
 Delta R.T. -0.000 min
 Lab File: VU060324.D
 Acq: 06 Aug 2024 15:49

Tgt Ion:146 Resp: 396786
 Ion Ratio Lower Upper
 146 100
 111 40.5 32.0 48.0
 148 64.5 51.4 77.0

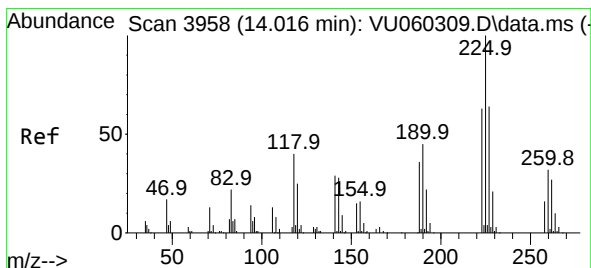
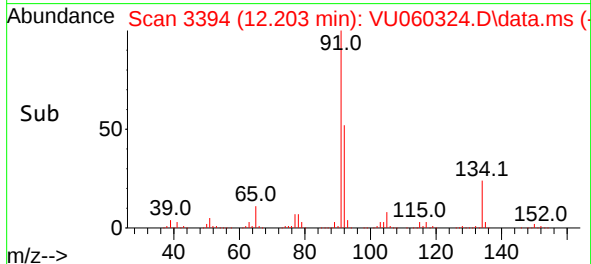
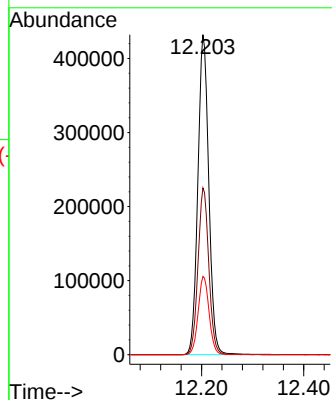
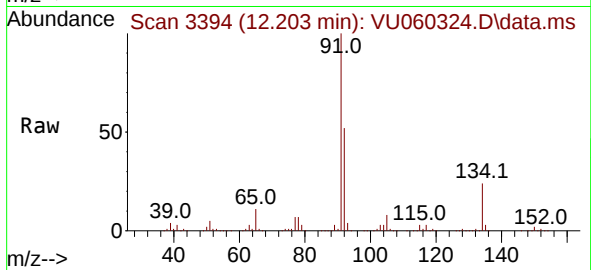




#84
n-Butylbenzene
Concen: 14.950 ug/l
RT: 12.203 min Scan# 3394
Delta R.T. -0.000 min
Lab File: VU060324.D
Acq: 06 Aug 2024 15:49

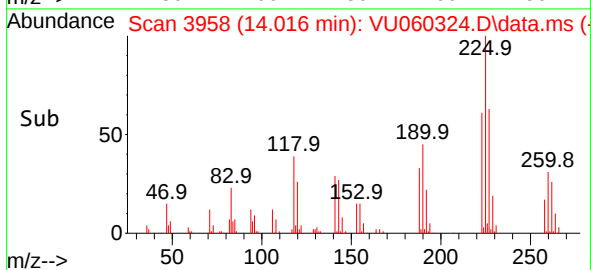
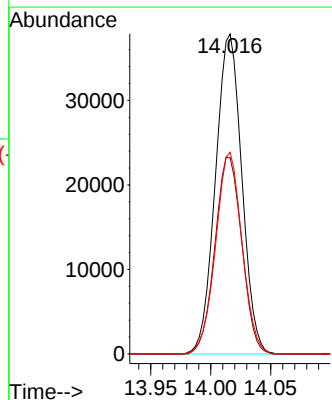
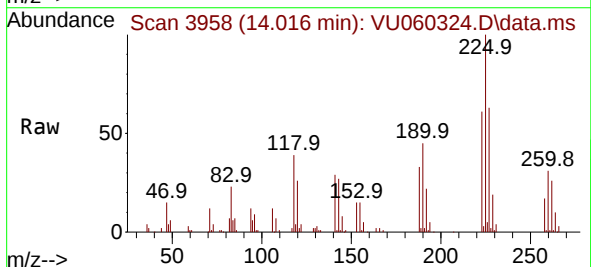
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

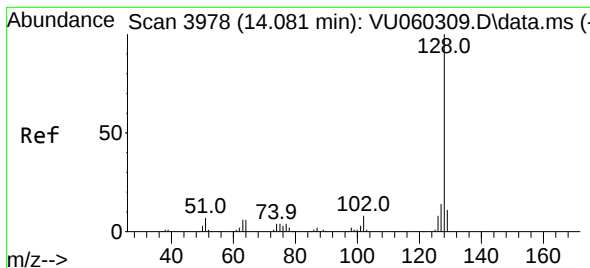
Tgt Ion: 91 Resp: 640067
Ion Ratio Lower Upper
91 100
92 51.8 41.0 61.6
134 24.5 19.4 29.2



#88
Hexachlorobutadiene
Concen: 7.848 ug/l
RT: 14.016 min Scan# 3958
Delta R.T. -0.000 min
Lab File: VU060324.D
Acq: 06 Aug 2024 15:49

Tgt Ion: 225 Resp: 57863
Ion Ratio Lower Upper
225 100
223 62.6 50.8 76.2
227 63.2 50.8 76.2





#89

Naphthalene

Concen: 32.494 ug/l

RT: 14.080 min Scan# 3978

Delta R.T. -0.001 min

Lab File: VU060324.D

Acq: 06 Aug 2024 15:49

Instrument :

MSVOA_U

ClientSampleId :

PT-UNRVOA-WS

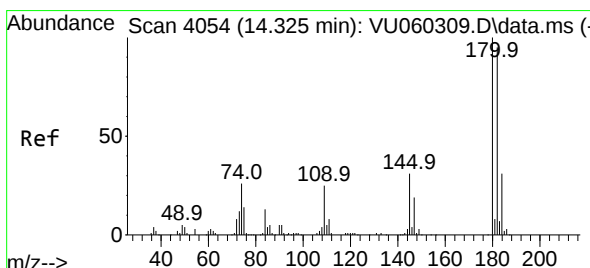
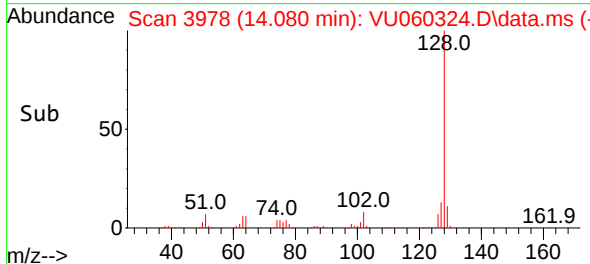
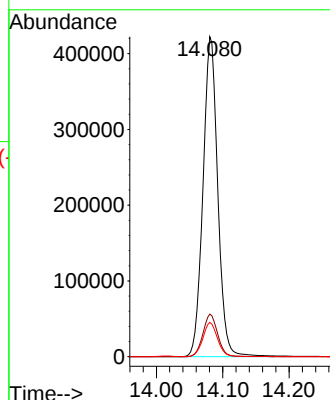
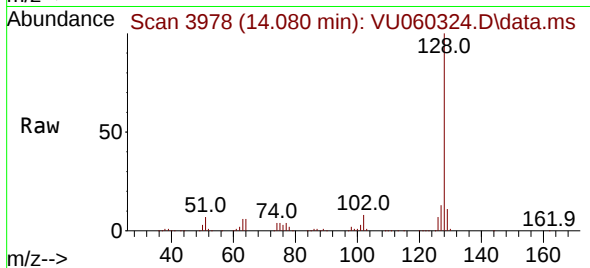
Tgt Ion:128 Resp: 655519

Ion Ratio Lower Upper

128 100

127 13.2 11.0 16.4

129 10.7 8.6 12.8



#90

1,2,3-Trichlorobenzene

Concen: 56.694 ug/l

RT: 14.322 min Scan# 4053

Delta R.T. -0.003 min

Lab File: VU060324.D

Acq: 06 Aug 2024 15:49

Tgt Ion:180 Resp: 631110

Ion Ratio Lower Upper

180 100

182 96.6 76.1 114.1

145 31.6 25.0 37.6

