

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU090324\
 Data File : VU060592.D
 Acq On : 03 Sep 2024 18:06
 Operator : MD/SY
 Sample : P3810-02DL 2X
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WSDL

Quant Time: Sep 04 05:47:12 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)

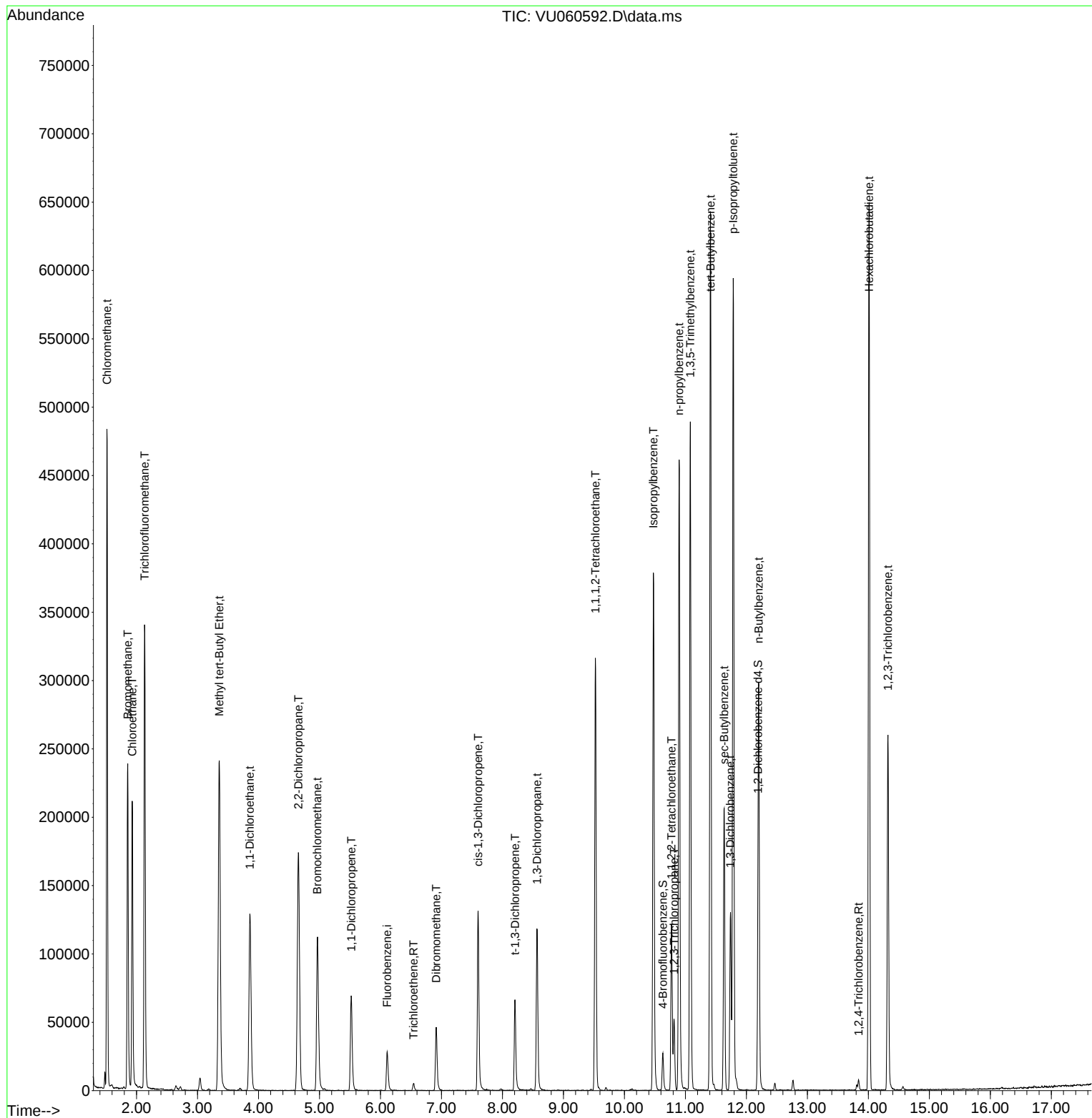
Internal Standards						
1) Fluorobenzene	6.110	96	27390	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.631	95	9921	1.063	ug/l	0.00
Spiked Amount 1.000			Recovery	=	106.000%	
68) 1,2-Dichlorobenzene-d4	12.190	152	11192	1.104	ug/l	0.00
Spiked Amount 1.000			Recovery	=	110.000%	
Target Compounds						
						Qvalue
3) Chloromethane	1.515	50	327797	27.214	ug/l	99
5) Bromomethane	1.856	94	110064	14.875	ug/l	99
6) Chloroethane	1.930	64	139076	19.082	ug/l	97
7) Trichlorofluoromethane	2.133	101	219672	15.121	ug/l	99
17) 1,1-Dichloroethane	3.859	63	153356	9.091	ug/l	100
21) 2,2-Dichloropropane	4.657	77	138017	10.506	ug/l	94
25) Methyl tert-Butyl Ether	3.358	73	267896	13.327	ug/l	98
26) Bromochloromethane	4.965	128	36906	9.273	ug/l	97
29) 1,1-Dichloropropene	5.521	75	38829	3.534	ug/l	97
37) Trichloroethene	6.544	130	2079	0.248	ug/l	92
43) Dibromomethane	6.914	93	19850	4.285	ug/l	97
50) t-1,3-Dichloropropene	8.206	75	40984	4.463	ug/l	94
51) cis-1,3-Dichloropropene	7.602	75	82133	7.435	ug/l	95
53) 1,3-Dichloropropane	8.566	76	72752	6.705	ug/l	98
60) 1,1,1,2-Tetrachloroethane	9.525	131	84588	10.563	ug/l	97
69) Isopropylbenzene	10.476	105	238411	6.402	ug/l	100
70) 1,1,2,2-Tetrachloroethane	10.772	83	61527	6.799	ug/l	98
71) 1,2,3-Trichloropropane	10.814	75	22365	3.337	ug/l	84
73) n-propylbenzene	10.897	120	77642	7.201	ug/l	99
75) 1,3,5-Trimethylbenzene	11.081	105	261820	7.765	ug/l	99
77) tert-Butylbenzene	11.412	119	287069	8.939	ug/l	87
79) sec-Butylbenzene	11.637	105	134279	3.348	ug/l	99
81) p-Isopropyltoluene	11.785	119	327245	8.947	ug/l	98
82) 1,3-Dichlorobenzene	11.740	146	56195	3.227	ug/l	99
84) n-Butylbenzene	12.203	91	151925	4.567	ug/l	99
87) 1,2,4-Trichlorobenzene	13.843	180	3030	0.315	ug/l	93
88) Hexachlorobutadiene	14.013	225	116082	18.637	ug/l	99
90) 1,2,3-Trichlorobenzene	14.322	180	82818	8.807	ug/l	99

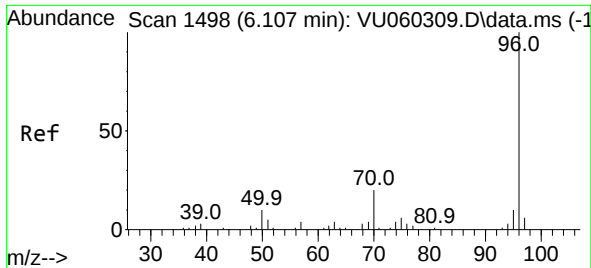
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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
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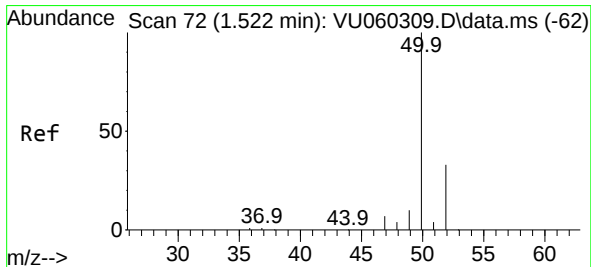
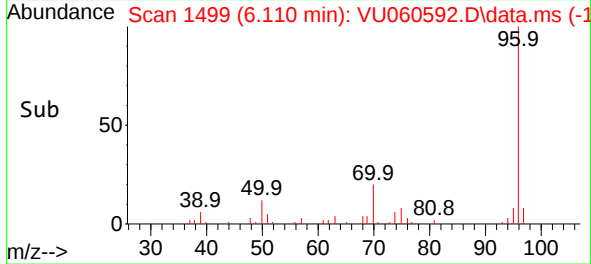
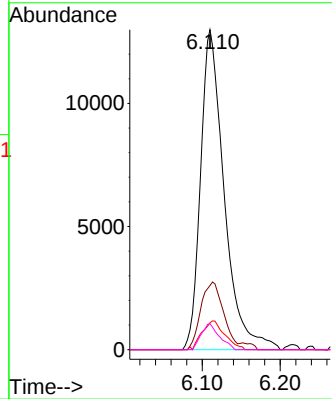
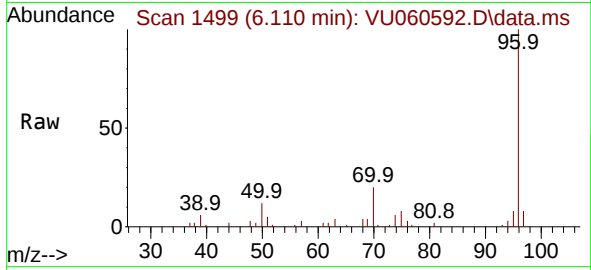




#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.110 min Scan# 1498
Delta R.T. 0.003 min
Lab File: VU060592.D
Acq: 03 Sep 2024 18:06

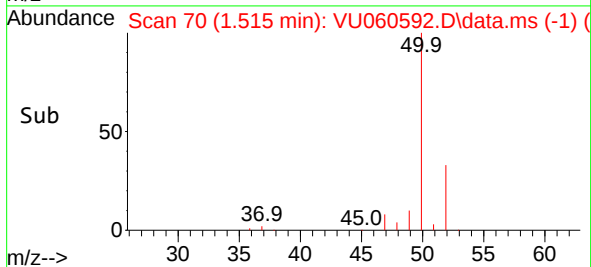
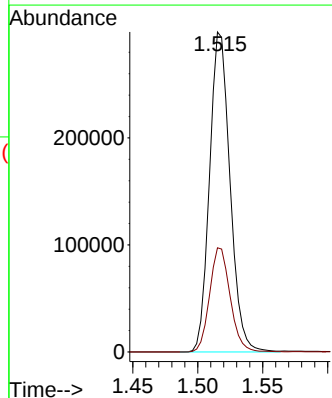
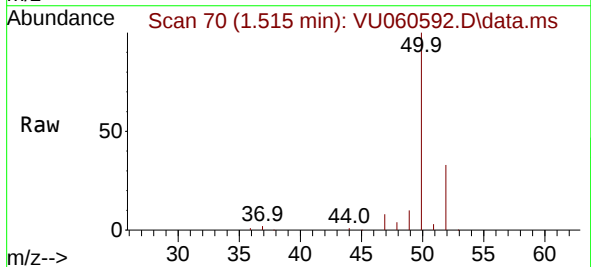
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

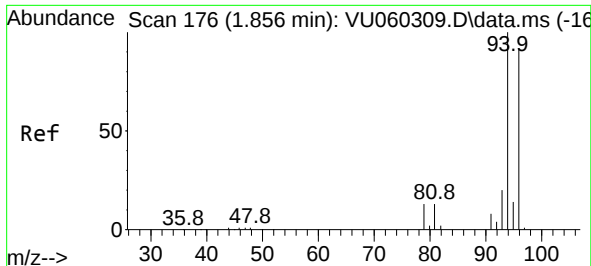
Tgt Ion: 96	Resp: 27390
Ion Ratio	Lower Upper
96 100	
70 18.4	17.2 25.8
95 8.6	7.9 11.9
97 6.2	0.0 0.0



#3
Chloromethane
Concen: 27.214 ug/l
RT: 1.515 min Scan# 70
Delta R.T. -0.006 min
Lab File: VU060592.D
Acq: 03 Sep 2024 18:06

Tgt Ion: 50	Resp: 327797
Ion Ratio	Lower Upper
50 100	
52 32.6	26.5 39.7

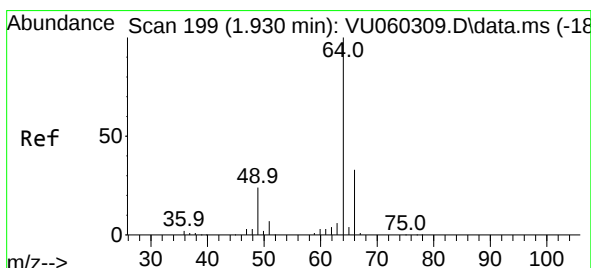
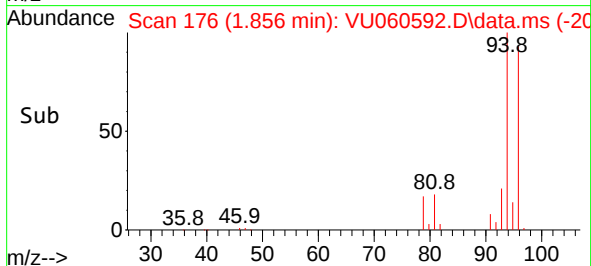
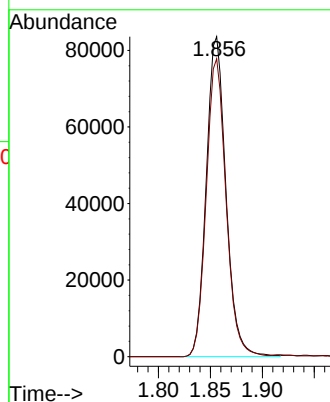
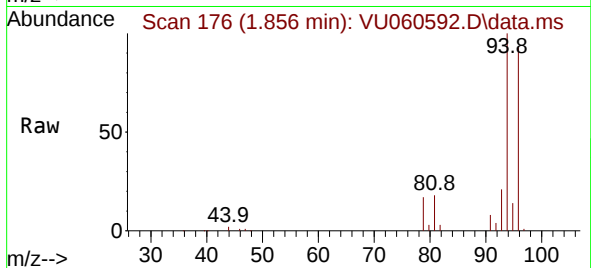




#5
Bromomethane
Concen: 14.875 ug/l
RT: 1.856 min Scan# 176
Delta R.T. 0.000 min
Lab File: VU060592.D
Acq: 03 Sep 2024 18:06

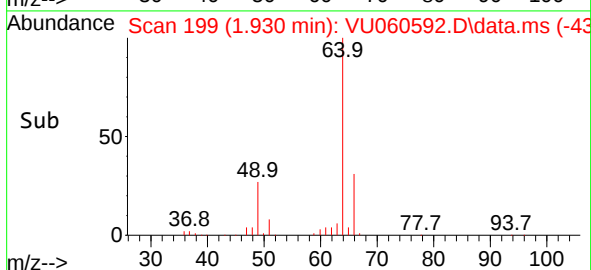
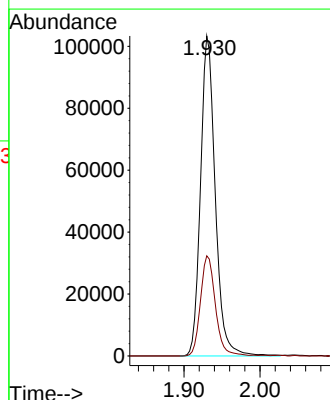
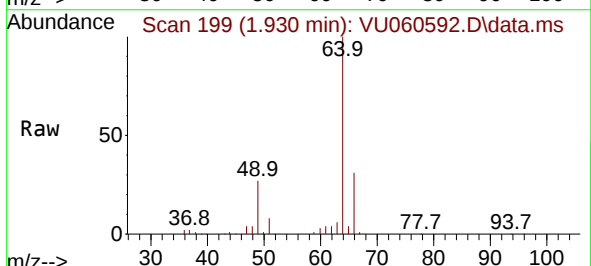
Instrument :
MSVOA_U
ClientSampleId :
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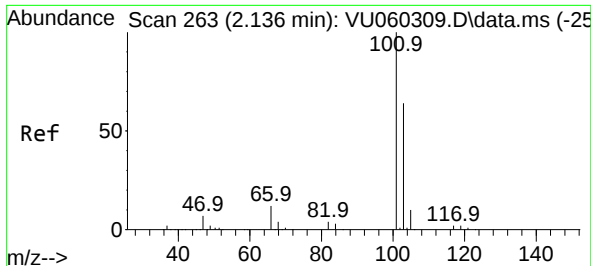
Tgt Ion: 94 Resp: 110064
Ion Ratio Lower Upper
94 100
96 93.1 73.8 110.8



#6
Chloroethane
Concen: 19.082 ug/l
RT: 1.930 min Scan# 199
Delta R.T. 0.000 min
Lab File: VU060592.D
Acq: 03 Sep 2024 18:06

Tgt Ion: 64 Resp: 139076
Ion Ratio Lower Upper
64 100
66 31.3 26.3 39.5

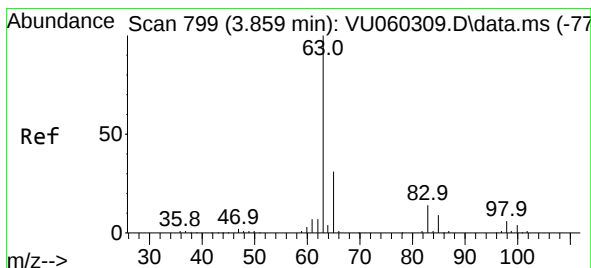
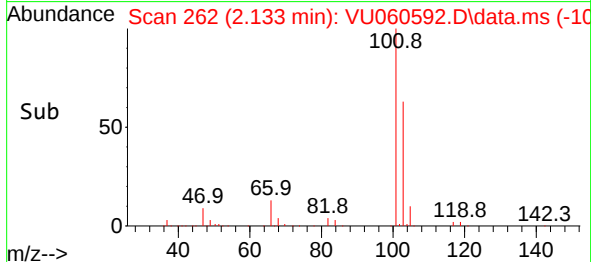
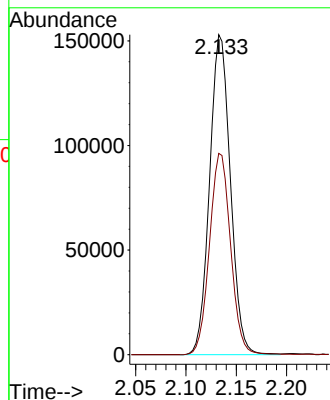
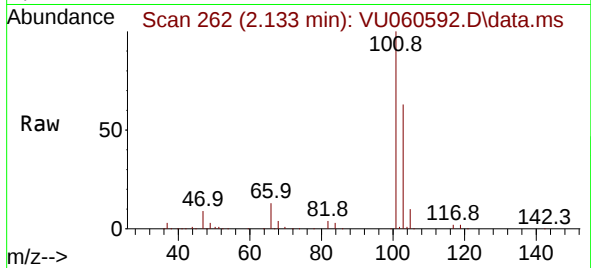




#7
 Trichlorofluoromethane
 Concen: 15.121 ug/l
 RT: 2.133 min Scan# 21
 Delta R.T. -0.003 min
 Lab File: VU060592.D
 Acq: 03 Sep 2024 18:06

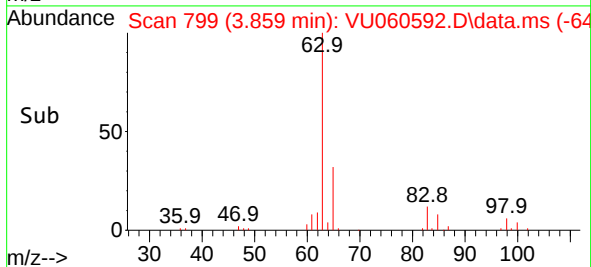
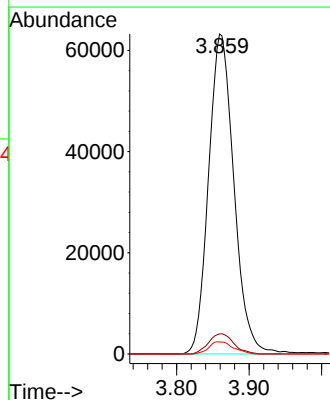
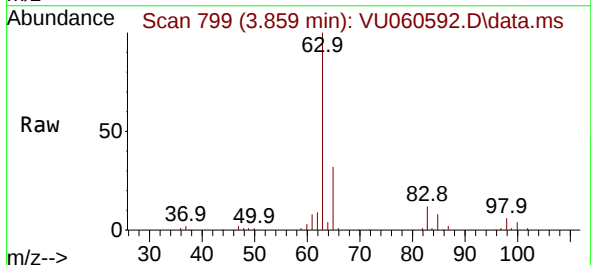
Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WSDL

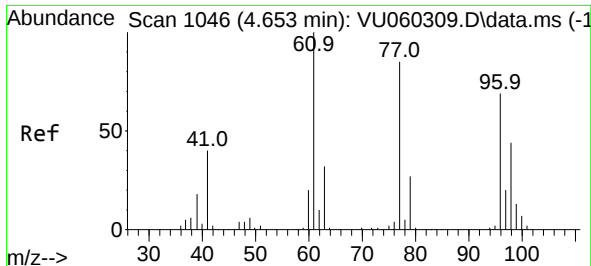
Tgt Ion:101 Resp: 219672
 Ion Ratio Lower Upper
 101 100
 103 62.9 51.0 76.4



#17
 1,1-Dichloroethane
 Concen: 9.091 ug/l
 RT: 3.859 min Scan# 799
 Delta R.T. 0.000 min
 Lab File: VU060592.D
 Acq: 03 Sep 2024 18:06

Tgt Ion: 63 Resp: 153356
 Ion Ratio Lower Upper
 63 100
 98 6.3 3.1 9.4
 100 3.7 2.0 5.8





#21

2,2-Dichloropropane

Concen: 10.506 ug/l

RT: 4.657 min Scan# 1046

Delta R.T. 0.003 min

Lab File: VU060592.D

Acq: 03 Sep 2024 18:06

Instrument :

MSVOA_U

ClientSampleId :

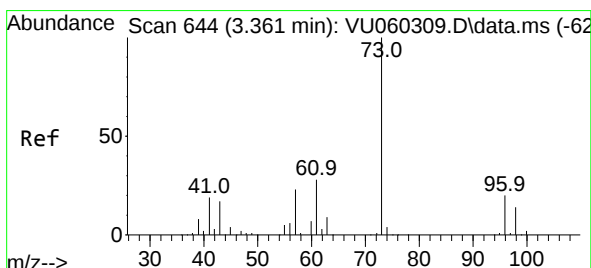
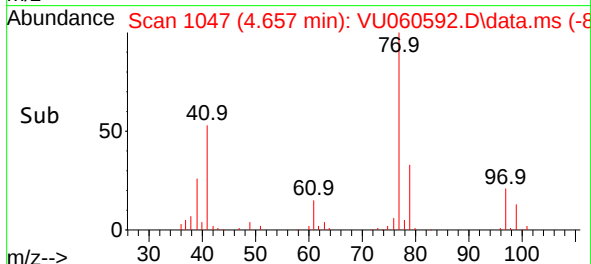
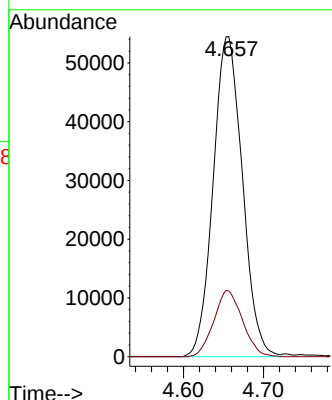
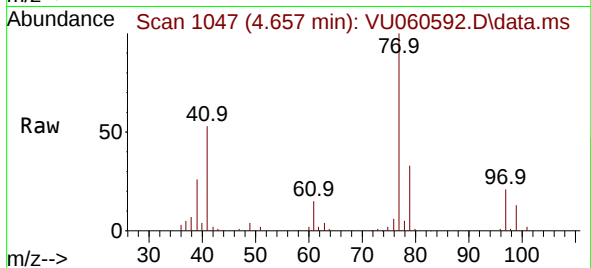
PT-UNRVOA-WSDL

Tgt Ion: 77 Resp: 138017

Ion Ratio Lower Upper

77 100

97 20.3 18.6 27.8



#25

Methyl tert-Butyl Ether

Concen: 13.327 ug/l

RT: 3.358 min Scan# 643

Delta R.T. -0.003 min

Lab File: VU060592.D

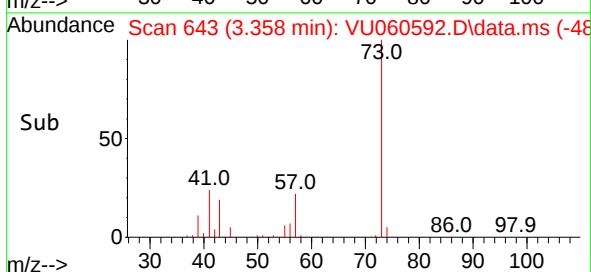
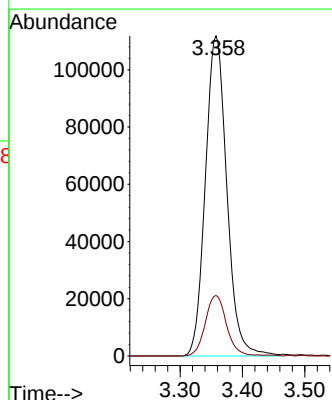
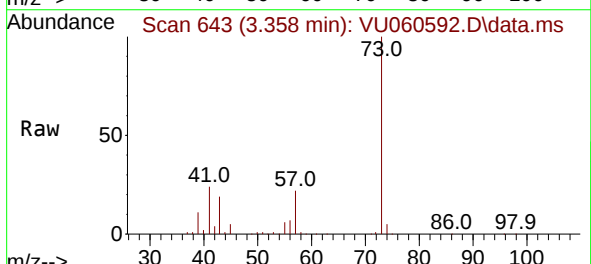
Acq: 03 Sep 2024 18:06

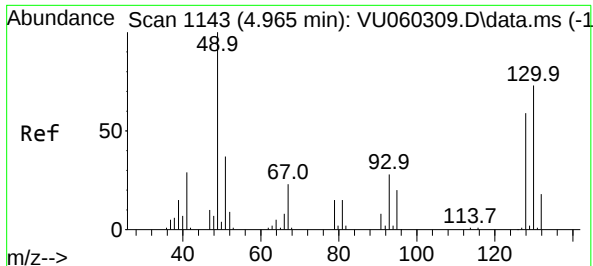
Tgt Ion: 73 Resp: 267896

Ion Ratio Lower Upper

73 100

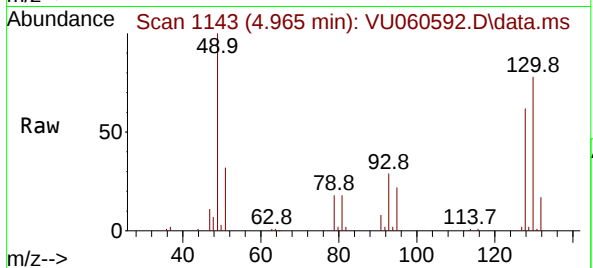
43 18.6 14.1 21.1



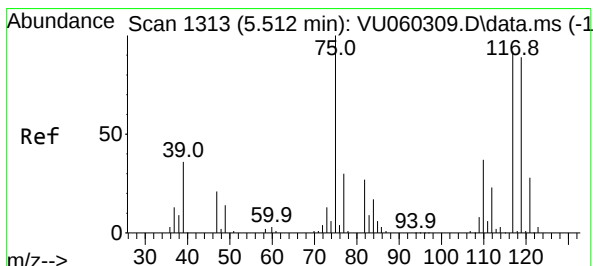
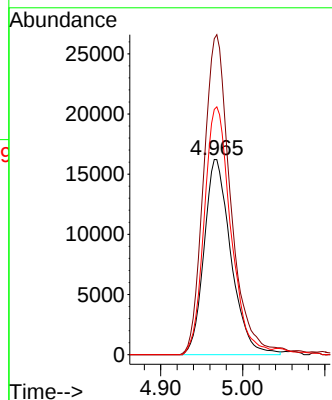
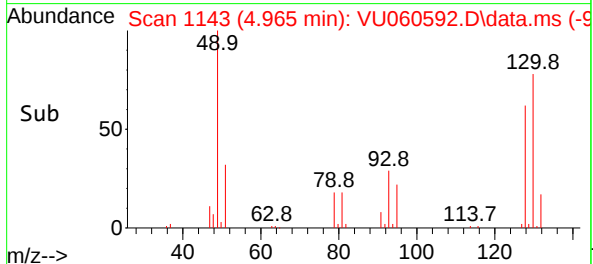


#26
Bromochloromethane
Concen: 9.273 ug/l
RT: 4.965 min Scan# 1143
Delta R.T. 0.000 min
Lab File: VU060592.D
Acq: 03 Sep 2024 18:06

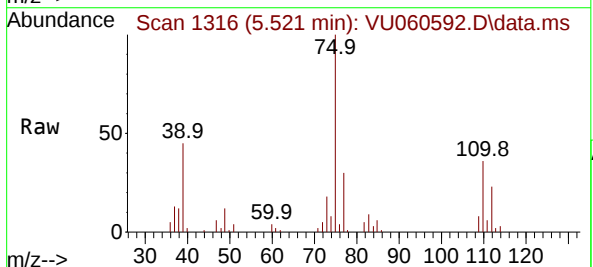
Instrument :
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PT-UNRVOA-WSDL



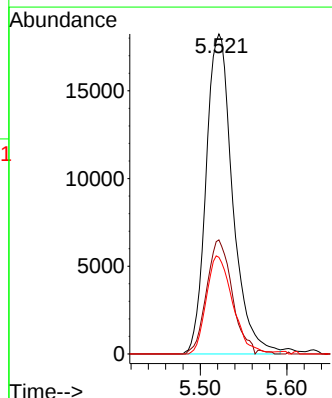
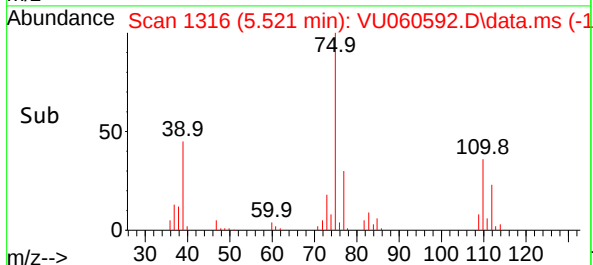
Tgt Ion:128 Resp: 36906
Ion Ratio Lower Upper
128 100
49 165.1 0.0 340.8
130 126.0 102.1 153.1

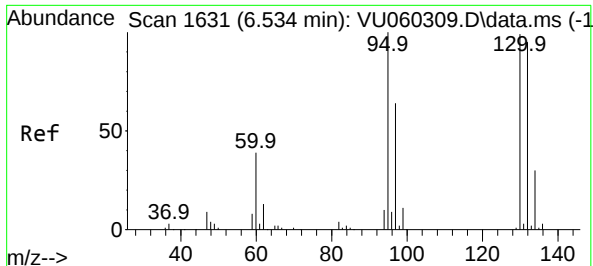


#29
1,1-Dichloropropene
Concen: 3.534 ug/l
RT: 5.521 min Scan# 1316
Delta R.T. 0.010 min
Lab File: VU060592.D
Acq: 03 Sep 2024 18:06



Tgt Ion: 75 Resp: 38829
Ion Ratio Lower Upper
75 100
110 34.5 18.4 55.2
77 30.4 24.8 37.2





#37

Trichloroethene

Concen: 0.248 ug/l

RT: 6.544 min Scan# 1

Delta R.T. 0.010 min

Lab File: VU060592.D

Acq: 03 Sep 2024 18:06

Instrument :

MSVOA_U

ClientSampleId :

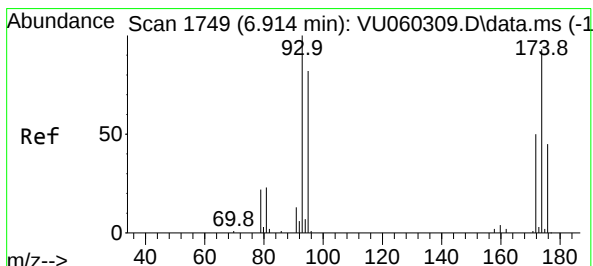
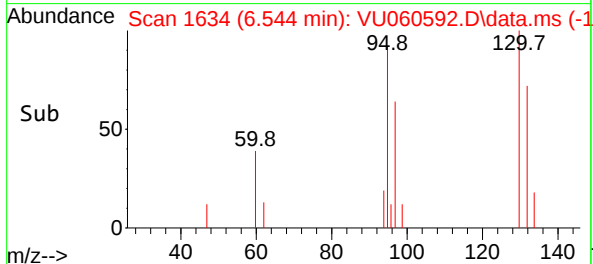
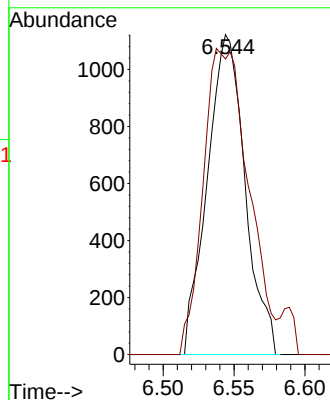
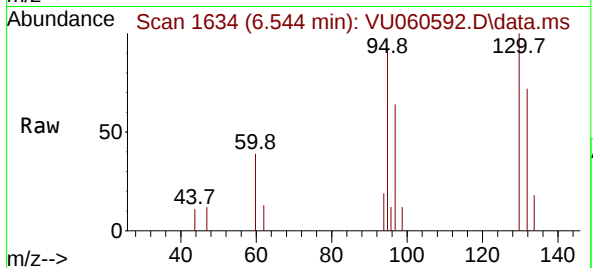
PT-UNRVOA-WSDL

Tgt Ion:130 Resp: 2079

Ion Ratio Lower Upper

130 100

95 92.4 80.6 121.0



#43

Dibromomethane

Concen: 4.285 ug/l

RT: 6.914 min Scan# 1749

Delta R.T. 0.000 min

Lab File: VU060592.D

Acq: 03 Sep 2024 18:06

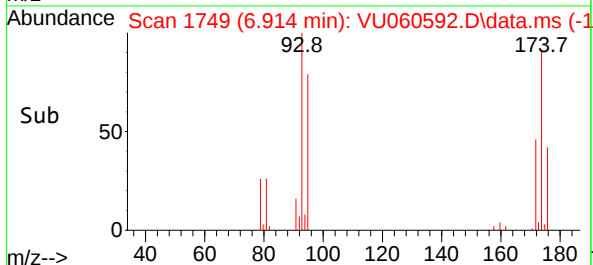
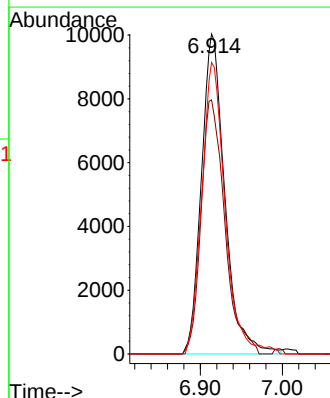
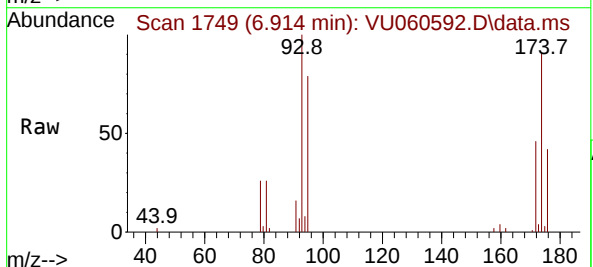
Tgt Ion: 93 Resp: 19850

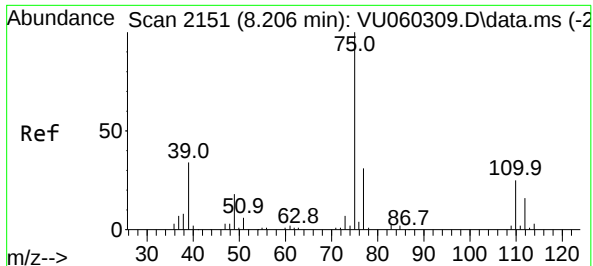
Ion Ratio Lower Upper

93 100

95 80.1 66.4 99.6

174 90.9 75.2 112.8





#50

t-1,3-Dichloropropene

Concen: 4.463 ug/l

RT: 8.206 min Scan# 2151

Delta R.T. 0.000 min

Lab File: VU060592.D

Acq: 03 Sep 2024 18:06

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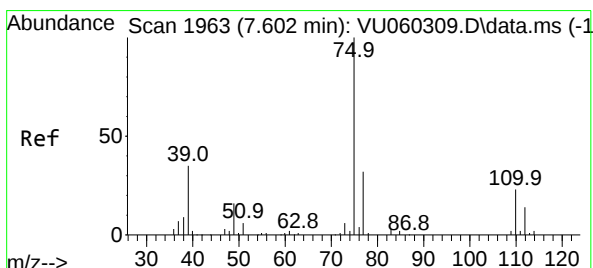
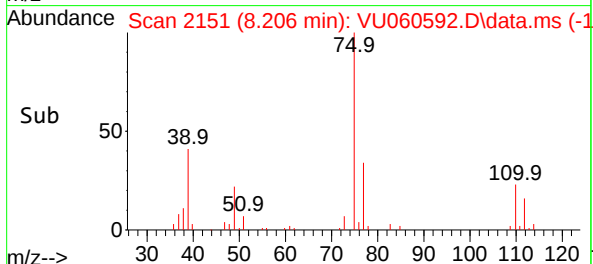
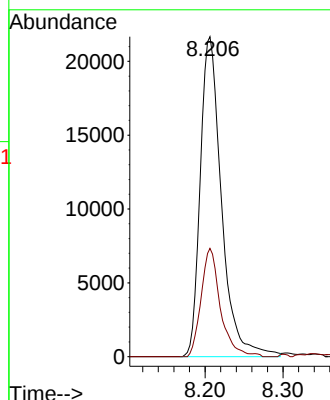
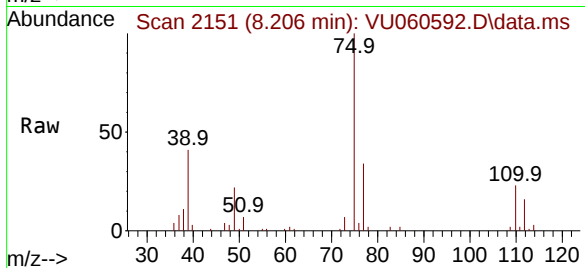
PT-UNRVOA-WSDL

Tgt Ion: 75 Resp: 40984

Ion Ratio Lower Upper

75 100

77 33.8 24.6 37.0



#51

cis-1,3-Dichloropropene

Concen: 7.435 ug/l

RT: 7.602 min Scan# 1963

Delta R.T. 0.000 min

Lab File: VU060592.D

Acq: 03 Sep 2024 18:06

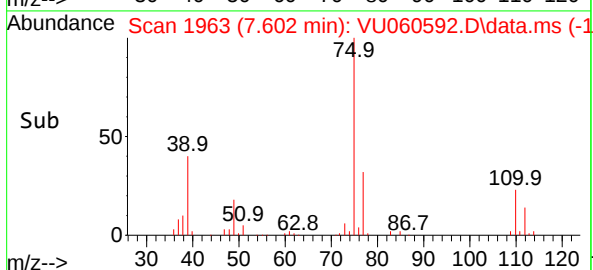
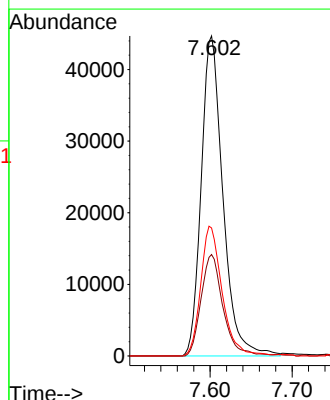
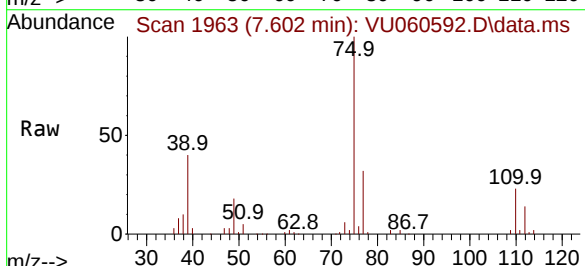
Tgt Ion: 75 Resp: 82133

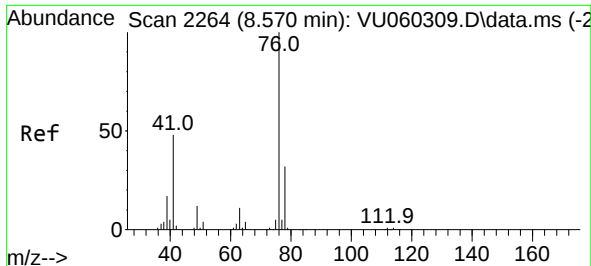
Ion Ratio Lower Upper

75 100

77 31.7 25.4 38.0

39 40.0 28.0 42.0





#53

1,3-Dichloropropane

Concen: 6.705 ug/l

RT: 8.566 min Scan# 21

Delta R.T. -0.003 min

Lab File: VU060592.D

Acq: 03 Sep 2024 18:06

Instrument :

MSVOA_U

ClientSampleId :

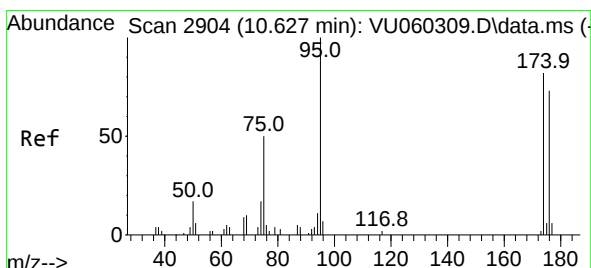
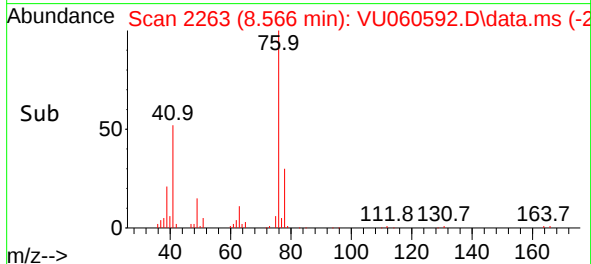
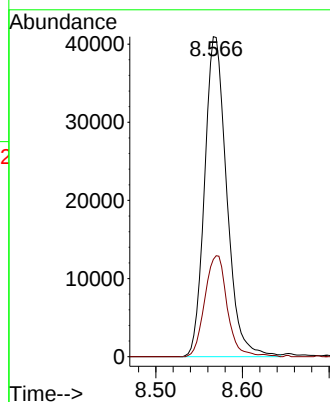
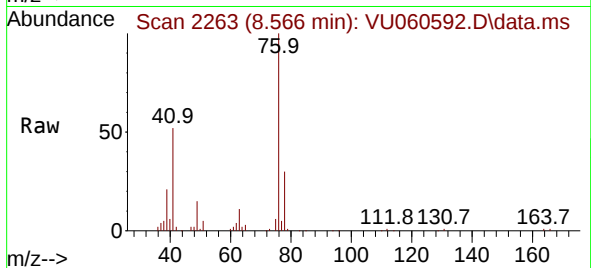
PT-UNRVOA-WSDL

Tgt Ion: 76 Resp: 72752

Ion Ratio Lower Upper

76 100

78 31.7 26.2 39.2



#57

4-Bromofluorobenzene

Concen: 1.063 ug/l

RT: 10.631 min Scan# 2905

Delta R.T. 0.003 min

Lab File: VU060592.D

Acq: 03 Sep 2024 18:06

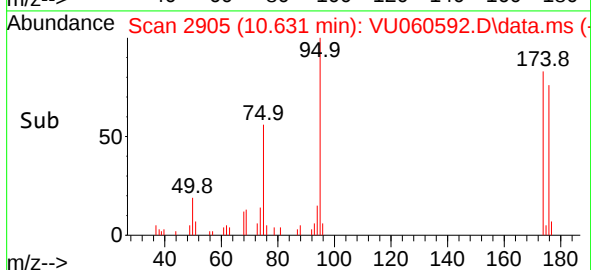
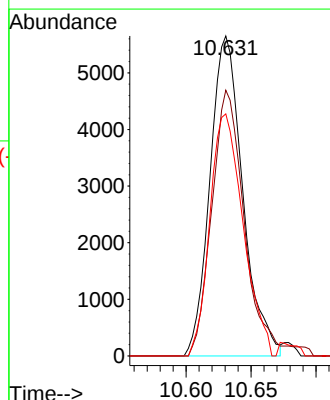
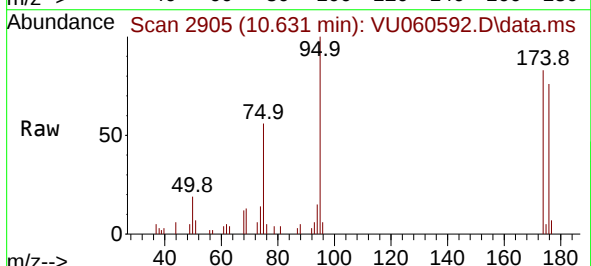
Tgt Ion: 95 Resp: 9921

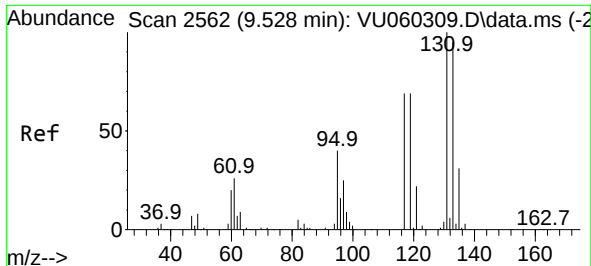
Ion Ratio Lower Upper

95 100

174 83.6 65.6 98.4

176 76.7 60.4 90.6

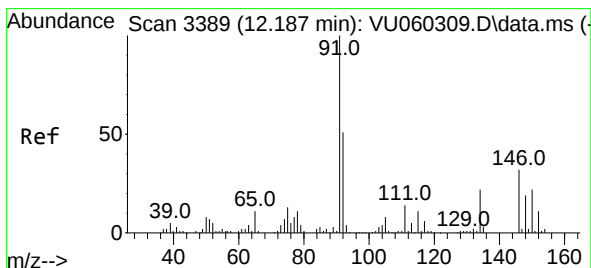
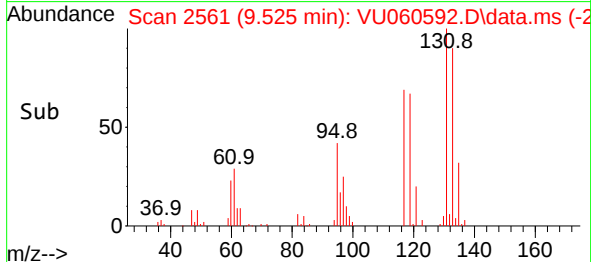
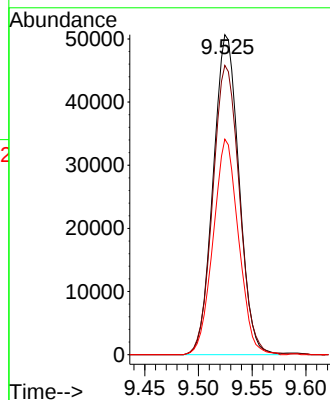
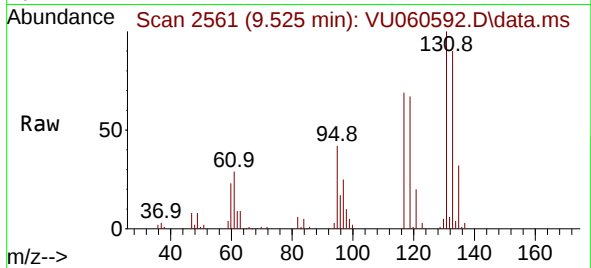




#60
1,1,1,2-Tetrachloroethane
Concen: 10.563 ug/l
RT: 9.525 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU060592.D
Acq: 03 Sep 2024 18:06

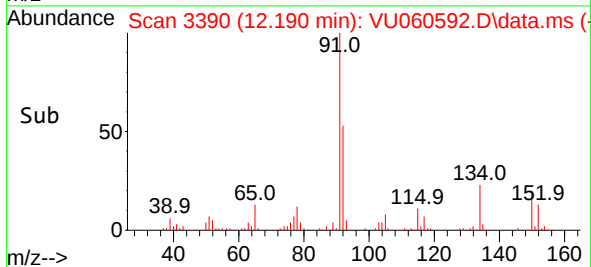
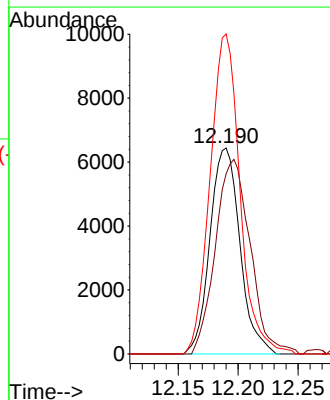
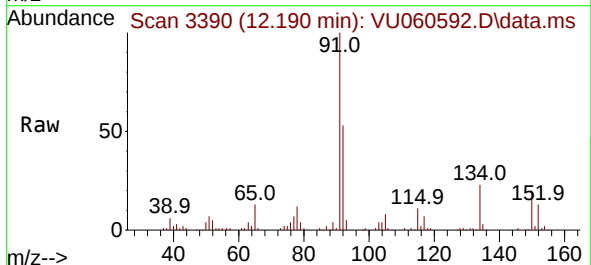
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ClientSampleId :
PT-UNRVOA-WSDL

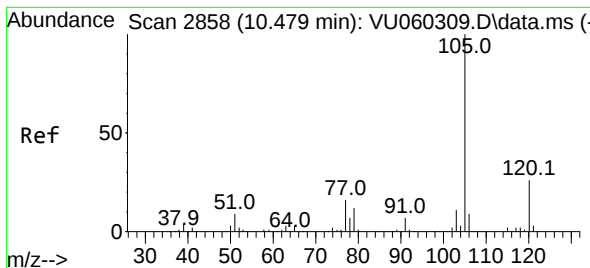
Tgt Ion:131 Resp: 84588
Ion Ratio Lower Upper
131 100
133 93.4 77.2 115.8
119 66.4 55.4 83.2



#68
1,2-Dichlorobenzene-d4
Concen: 1.104 ug/l
RT: 12.190 min Scan# 3390
Delta R.T. 0.003 min
Lab File: VU060592.D
Acq: 03 Sep 2024 18:06

Tgt Ion:152 Resp: 11192
Ion Ratio Lower Upper
152 100
115 109.7 0.0 325.2
150 154.8 0.0 684.2





#69

Isopropylbenzene

Concen: 6.402 ug/l

RT: 10.476 min Scan# 21

Delta R.T. -0.003 min

Lab File: VU060592.D

Acq: 03 Sep 2024 18:06

Instrument :

MSVOA_U

ClientSampleId :

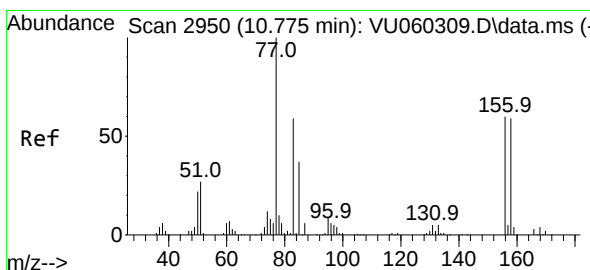
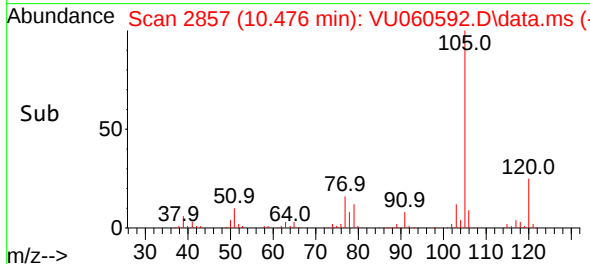
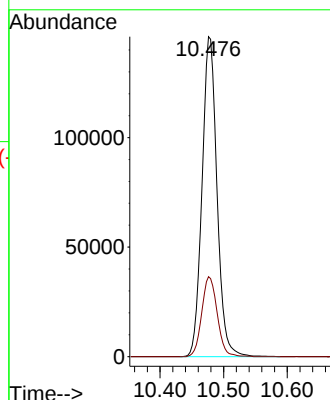
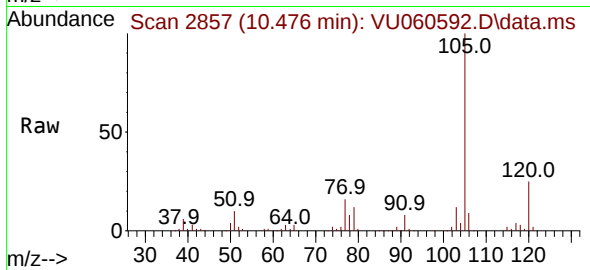
PT-UNRVOA-WSDL

Tgt Ion:105 Resp: 238411

Ion Ratio Lower Upper

105 100

120 25.9 13.0 39.0



#70

1,1,2,2-Tetrachloroethane

Concen: 6.799 ug/l

RT: 10.772 min Scan# 2949

Delta R.T. -0.003 min

Lab File: VU060592.D

Acq: 03 Sep 2024 18:06

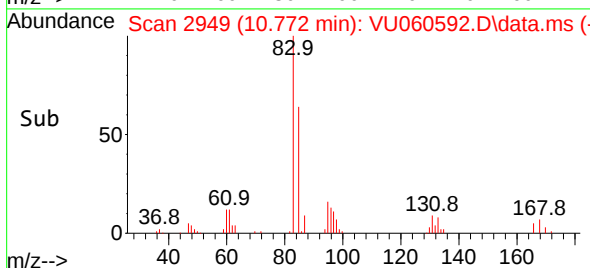
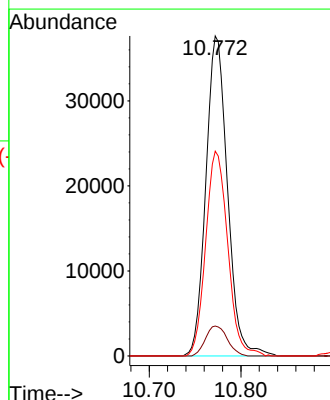
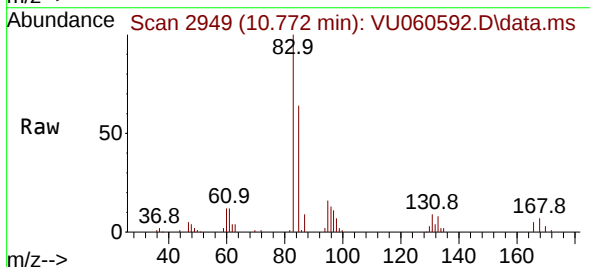
Tgt Ion: 83 Resp: 61527

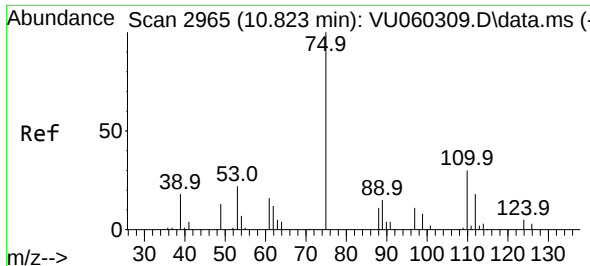
Ion Ratio Lower Upper

83 100

131 9.5 7.1 10.7

85 65.3 50.9 76.3

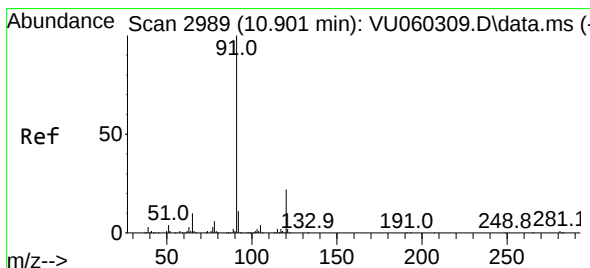
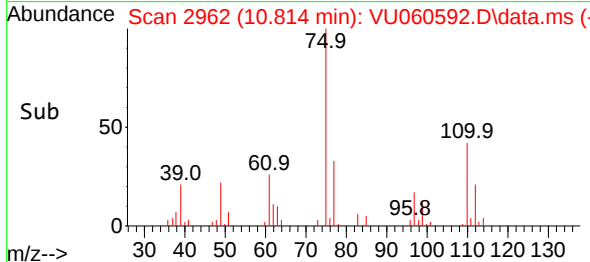
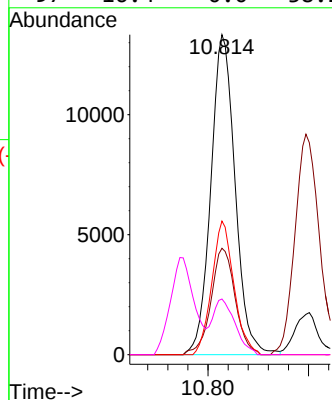
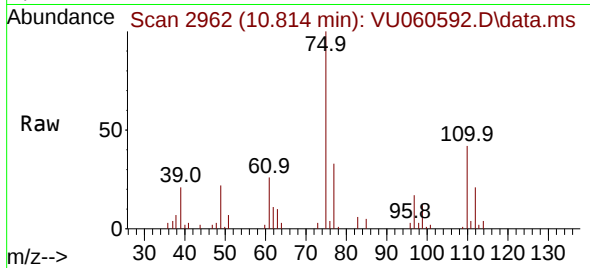




#71
1,2,3-Trichloropropane
Concen: 3.337 ug/l
RT: 10.814 min Scan# 2965
Delta R.T. -0.010 min
Lab File: VU060592.D
Acq: 03 Sep 2024 18:06

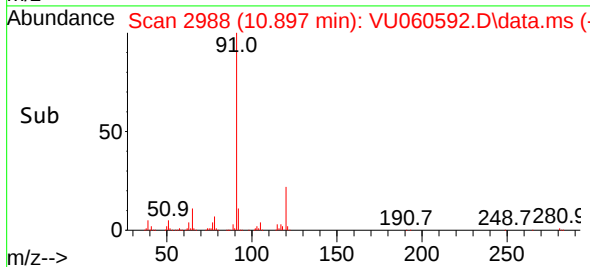
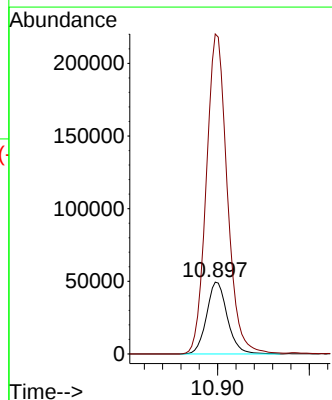
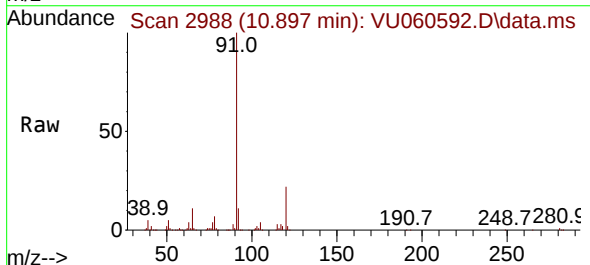
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

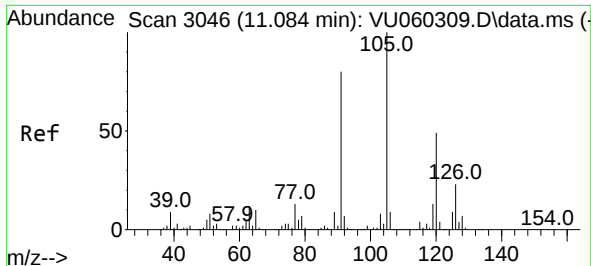
Tgt Ion:	75	Resp:	22365
Ion	Ratio	Lower	Upper
75	100		
77	33.0	0.0	102.2
110	38.0	0.0	67.4
97	16.4	0.0	38.2



#73
n-propylbenzene
Concen: 7.201 ug/l
RT: 10.897 min Scan# 2988
Delta R.T. -0.004 min
Lab File: VU060592.D
Acq: 03 Sep 2024 18:06

Tgt Ion:	120	Resp:	77642
Ion	Ratio	Lower	Upper
120	100		
91	450.5	362.2	543.2

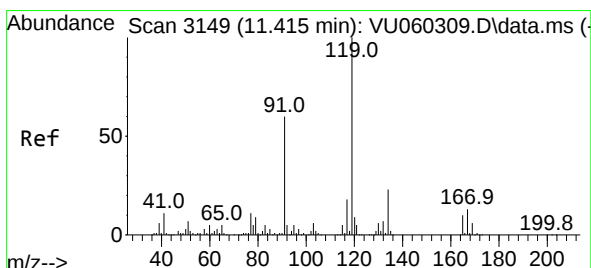
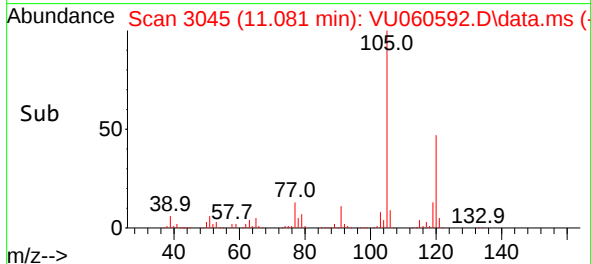
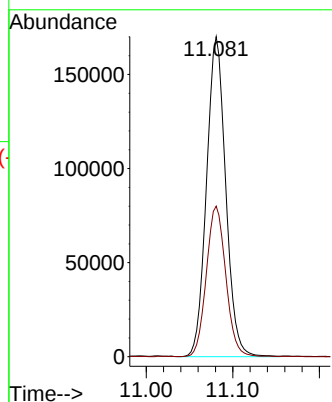
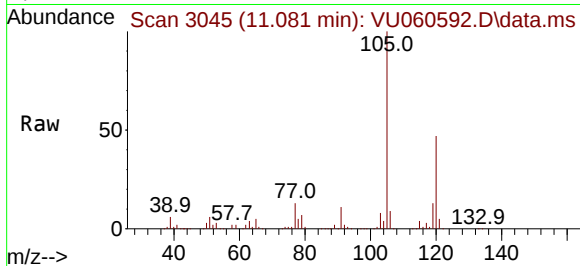




#75
 1,3,5-Trimethylbenzene
 Concen: 7.765 ug/l
 RT: 11.081 min Scan# 3046
 Delta R.T. -0.003 min
 Lab File: VU060592.D
 Acq: 03 Sep 2024 18:06

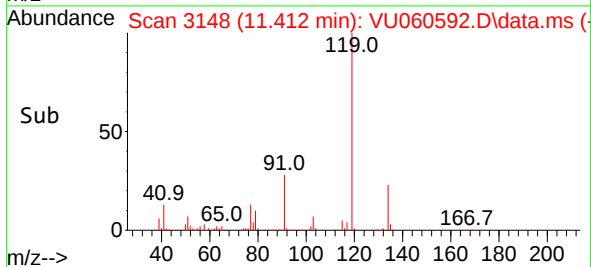
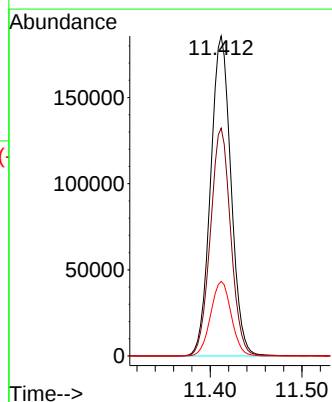
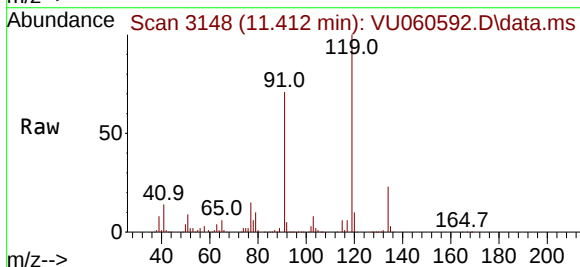
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 ClientSampleId :
 PT-UNRVOA-WSDL

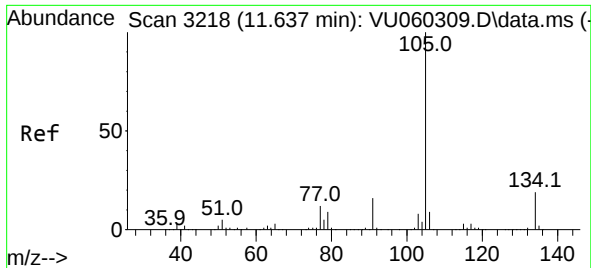
Tgt Ion:105 Resp: 261820
 Ion Ratio Lower Upper
 105 100
 120 47.5 38.6 57.8



#77
 tert-Butylbenzene
 Concen: 8.939 ug/l
 RT: 11.412 min Scan# 3148
 Delta R.T. -0.003 min
 Lab File: VU060592.D
 Acq: 03 Sep 2024 18:06

Tgt Ion:119 Resp: 287069
 Ion Ratio Lower Upper
 119 100
 91 70.9 29.0 87.1
 134 23.5 17.8 26.8

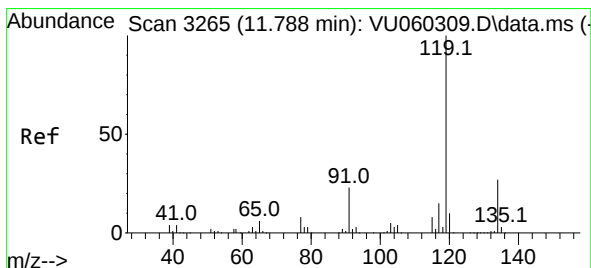
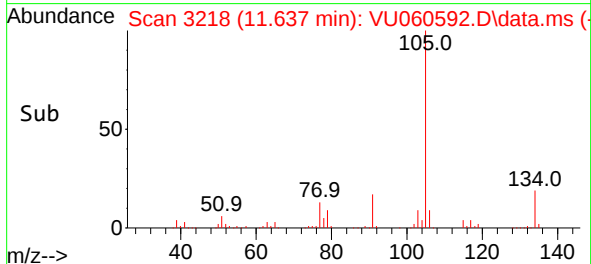
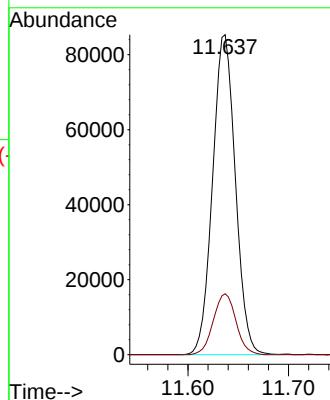
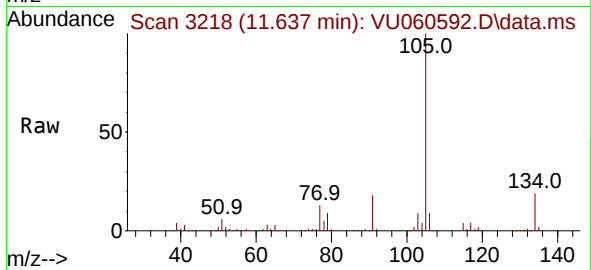




#79
 sec-Butylbenzene
 Concen: 3.348 ug/l
 RT: 11.637 min Scan# 3218
 Delta R.T. -0.000 min
 Lab File: VU060592.D
 Acq: 03 Sep 2024 18:06

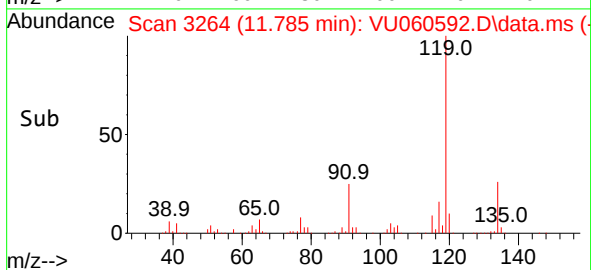
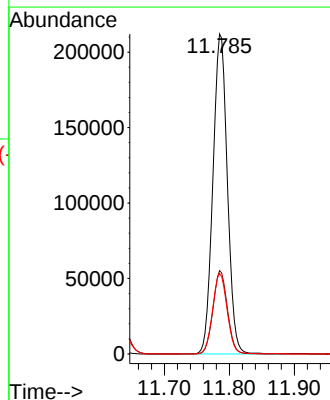
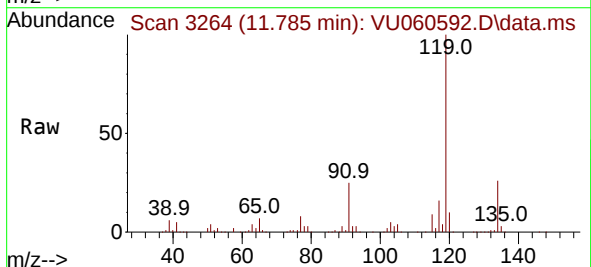
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 ClientSampleId :
 PT-UNRVOA-WSDL

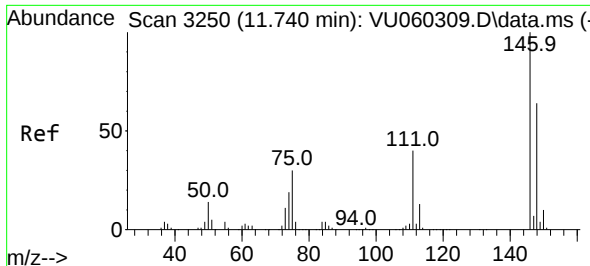
Tgt Ion:105 Resp: 134279
 Ion Ratio Lower Upper
 105 100
 134 19.0 15.5 23.3



#81
 p-Isopropyltoluene
 Concen: 8.947 ug/l
 RT: 11.785 min Scan# 3264
 Delta R.T. -0.003 min
 Lab File: VU060592.D
 Acq: 03 Sep 2024 18:06

Tgt Ion:119 Resp: 327245
 Ion Ratio Lower Upper
 119 100
 134 25.9 21.2 31.8
 91 25.3 18.9 28.3

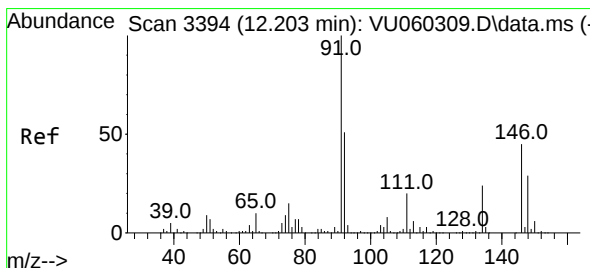
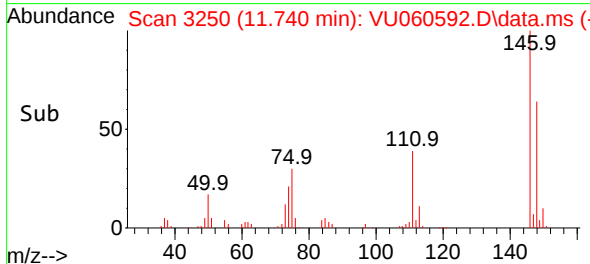
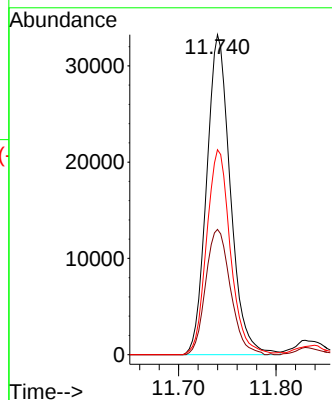
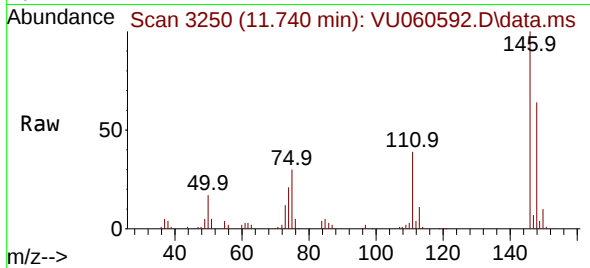




#82
1,3-Dichlorobenzene
Concen: 3.227 ug/l
RT: 11.740 min Scan# 3250
Delta R.T. 0.000 min
Lab File: VU060592.D
Acq: 03 Sep 2024 18:06

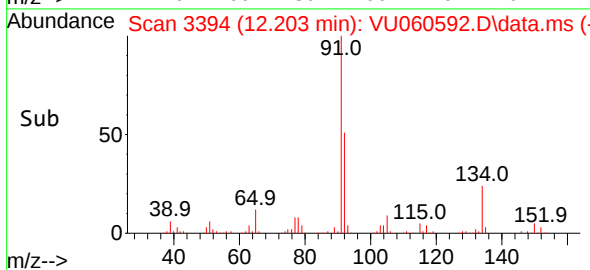
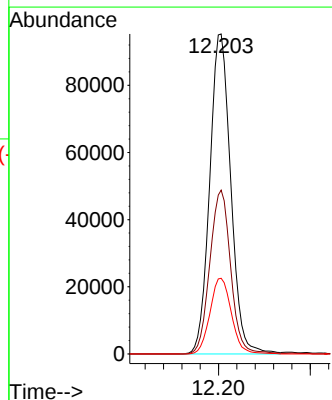
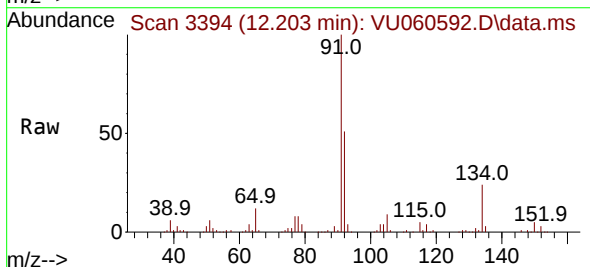
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MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

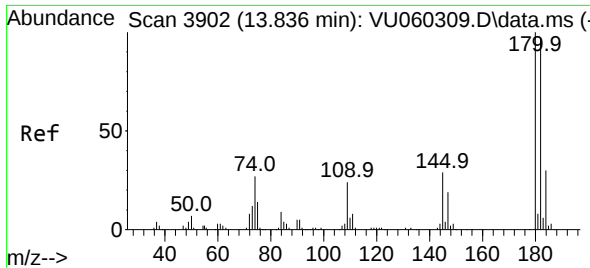
Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.9	32.0	48.0
148	64.6	51.4	77.0



#84
n-Butylbenzene
Concen: 4.567 ug/l
RT: 12.203 min Scan# 3394
Delta R.T. -0.000 min
Lab File: VU060592.D
Acq: 03 Sep 2024 18:06

Tgt Ion	Ratio	Lower	Upper
91	100		
92	50.7	41.0	61.6
134	24.0	19.4	29.2

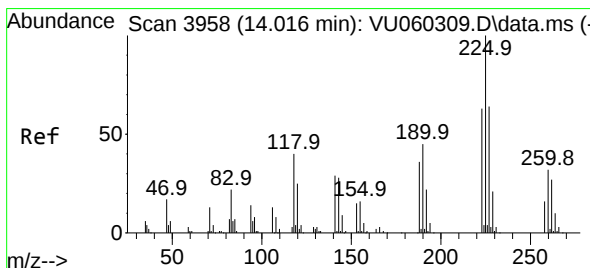
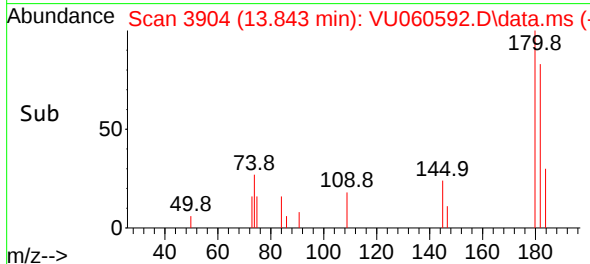
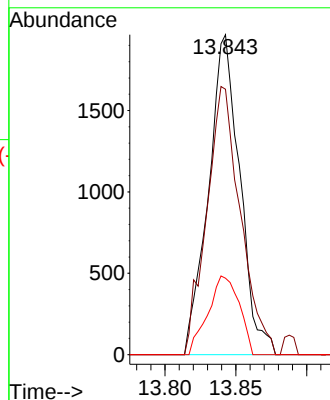
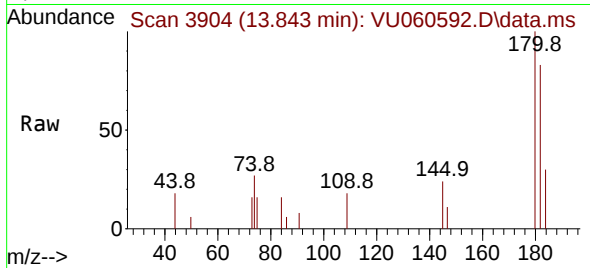




#87
1,2,4-Trichlorobenzene
Concen: 0.315 ug/l
RT: 13.843 min Scan# 3904
Delta R.T. 0.007 min
Lab File: VU060592.D
Acq: 03 Sep 2024 18:06

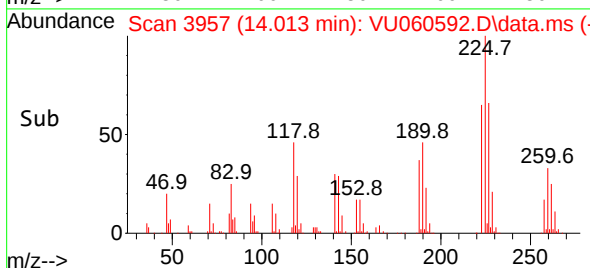
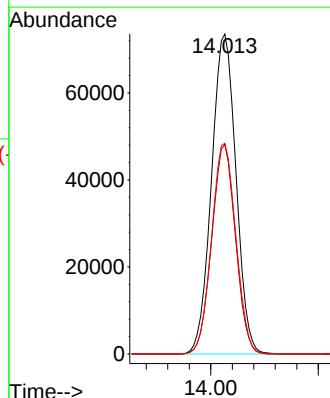
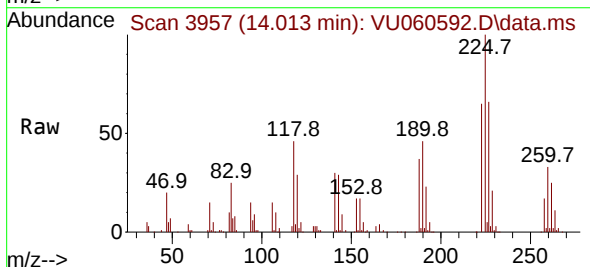
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MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

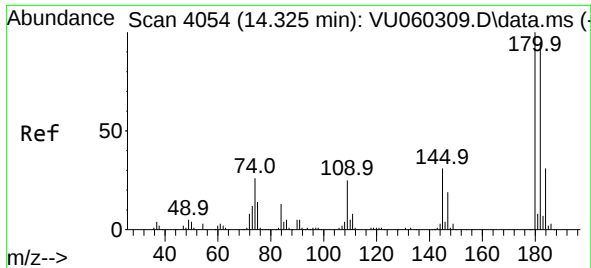
Tgt Ion:180 Resp: 3030
Ion Ratio Lower Upper
180 100
182 89.9 76.8 115.2
145 24.4 23.4 35.0



#88
Hexachlorobutadiene
Concen: 18.637 ug/l
RT: 14.013 min Scan# 3957
Delta R.T. -0.003 min
Lab File: VU060592.D
Acq: 03 Sep 2024 18:06

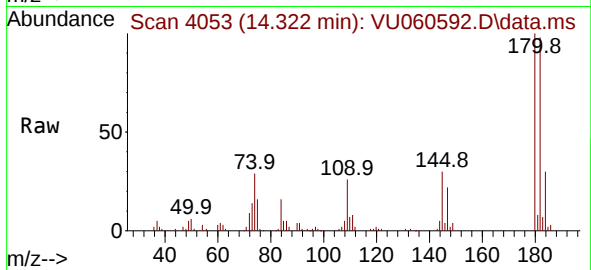
Tgt Ion:225 Resp: 116082
Ion Ratio Lower Upper
225 100
223 63.5 50.8 76.2
227 65.3 50.8 76.2





#90
 1,2,3-Trichlorobenzene
 Concen: 8.807 ug/l
 RT: 14.322 min Scan# 4053
 Delta R.T. -0.003 min
 Lab File: VU060592.D
 Acq: 03 Sep 2024 18:06

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WSDL



Tgt Ion:180 Resp: 82818
 Ion Ratio Lower Upper
 180 100
 182 96.3 76.1 114.1
 145 31.4 25.0 37.6

