

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU090324\
 Data File : VU060588.D
 Acq On : 03 Sep 2024 16:29
 Operator : MD/SY
 Sample : P3810-02
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WS

Quant Time: Sep 04 05:45:07 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)

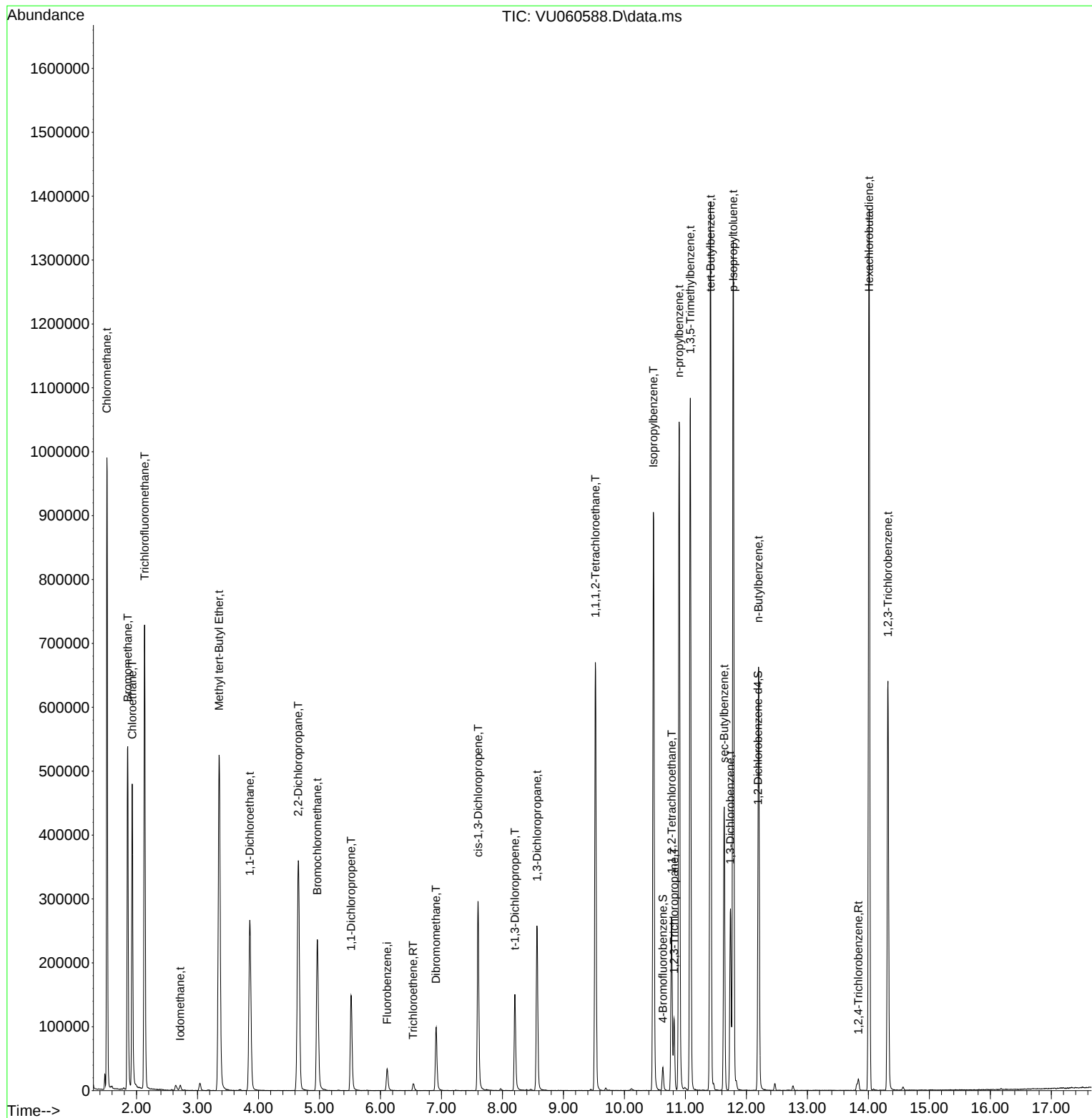
Internal Standards						
1) Fluorobenzene	6.110	96	33988	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.630	95	13200	1.140	ug/l	0.00
Spiked Amount 1.000			Recovery	=	114.000%	
68) 1,2-Dichlorobenzene-d4	12.190	152	12761	1.014	ug/l	0.00
Spiked Amount 1.000			Recovery	=	101.000%	
Target Compounds						
						Qvalue
3) Chloromethane	1.515	50	665896	44.552	ug/l	100
5) Bromomethane	1.856	94	251811	27.426	ug/l	98
6) Chloroethane	1.930	64	319148	35.289	ug/l	97
7) Trichlorofluoromethane	2.132	101	470586	26.104	ug/l	99
10) Iodomethane	2.718	142	8216	0.545	ug/l	97
17) 1,1-Dichloroethane	3.859	63	317920	15.188	ug/l	99
21) 2,2-Dichloropropane	4.653	77	288169	17.677	ug/l	93
25) Methyl tert-Butyl Ether	3.354	73	590475	23.671	ug/l	99
26) Bromochloromethane	4.965	128	78905	15.977	ug/l	97
29) 1,1-Dichloropropene	5.518	75	83357	6.114	ug/l	98
37) Trichloroethene	6.537	130	4217	0.405	ug/l	96
43) Dibromomethane	6.910	93	40828	7.102	ug/l	98
50) t-1,3-Dichloropropene	8.203	75	90877	7.975	ug/l	98
51) cis-1,3-Dichloropropene	7.602	75	185961	13.566	ug/l	97
53) 1,3-Dichloropropane	8.566	76	159579	11.851	ug/l	98
60) 1,1,1,2-Tetrachloroethane	9.524	131	178376	17.951	ug/l	98
69) Isopropylbenzene	10.476	105	559738	11.689	ug/l	99
70) 1,1,2,2-Tetrachloroethane	10.775	83	136970	12.197	ug/l	100
71) 1,2,3-Trichloropropane	10.814	75	48902	5.879	ug/l	86
73) n-propylbenzene	10.897	120	179941	13.026	ug/l	98
75) 1,3,5-Trimethylbenzene	11.081	105	587582	13.674	ug/l	99
77) tert-Butylbenzene	11.412	119	632558	15.528	ug/l	89
79) sec-Butylbenzene	11.637	105	292747	5.540	ug/l	99
81) p-Isopropyltoluene	11.785	119	731391	15.699	ug/l	98
82) 1,3-Dichlorobenzene	11.740	146	120929	5.597	ug/l	99
84) n-Butylbenzene	12.200	91	345600	7.948	ug/l	99
87) 1,2,4-Trichlorobenzene	13.836	180	6046	0.506	ug/l	98
88) Hexachlorobutadiene	14.013	225	249195	32.242	ug/l	99
90) 1,2,3-Trichlorobenzene	14.322	180	199334	17.082	ug/l	98

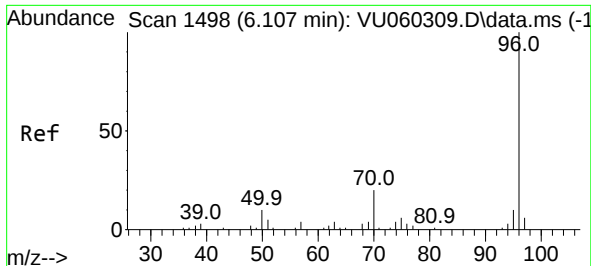
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Tue Aug 06 11:07:28 2024
Response via : Initial Calibration

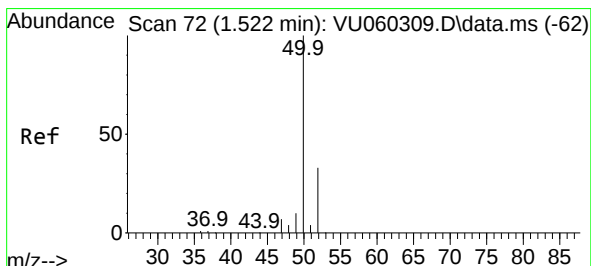
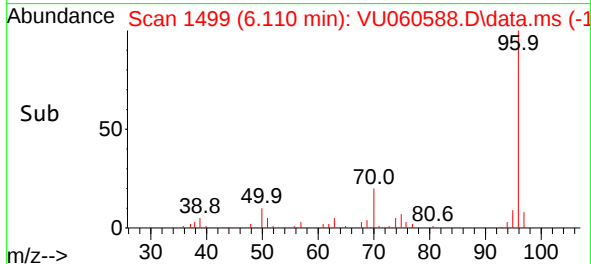
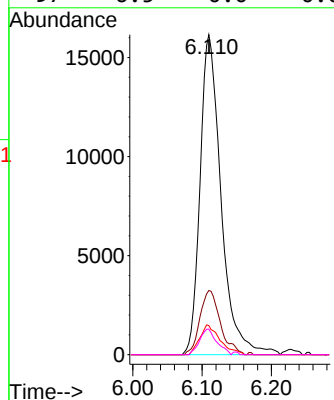
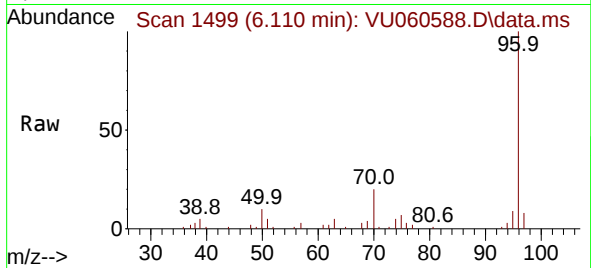




#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.110 min Scan# 1498
Delta R.T. 0.003 min
Lab File: VU060588.D
Acq: 03 Sep 2024 16:29

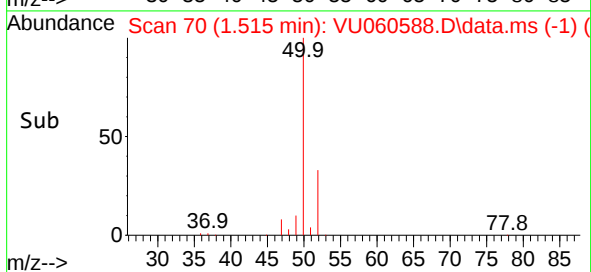
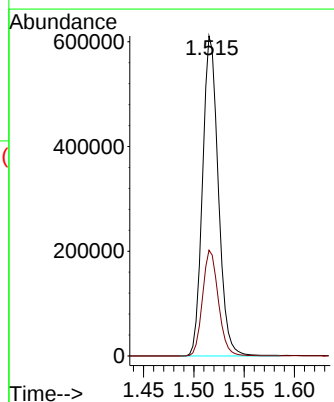
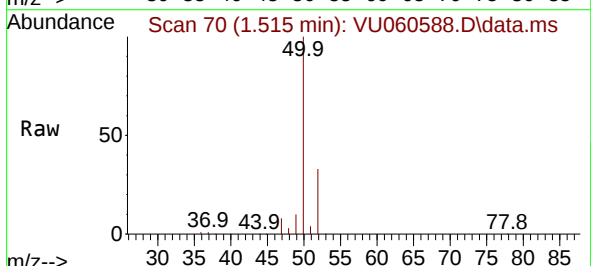
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

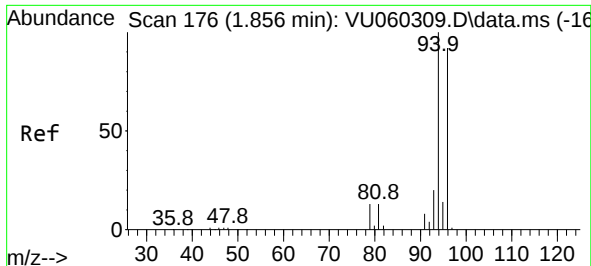
Tgt Ion: 96	Resp: 33988
Ion Ratio	Lower Upper
96 100	
70 19.5	17.2 25.8
95 9.0	7.9 11.9
97 6.5	0.0 0.0



#3
Chloromethane
Concen: 44.552 ug/l
RT: 1.515 min Scan# 70
Delta R.T. -0.007 min
Lab File: VU060588.D
Acq: 03 Sep 2024 16:29

Tgt Ion: 50	Resp: 665896
Ion Ratio	Lower Upper
50 100	
52 33.0	26.5 39.7

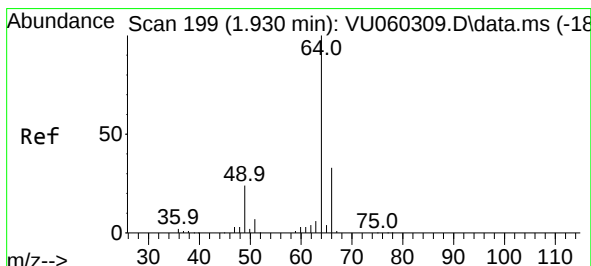
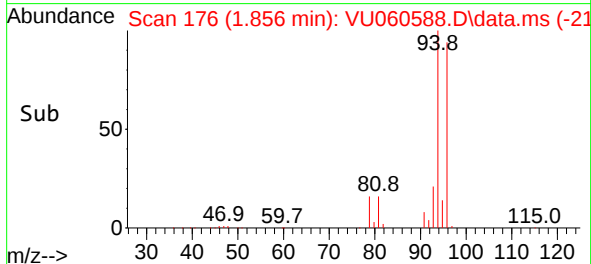
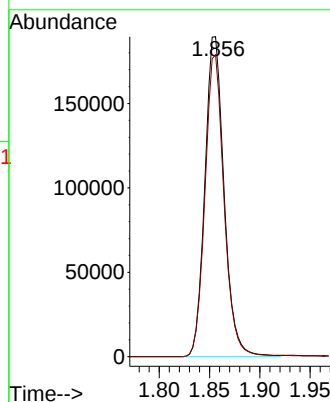
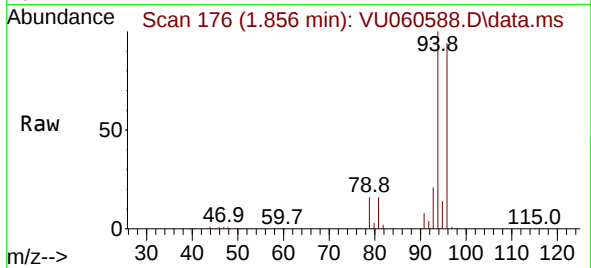




#5
Bromomethane
Concen: 27.426 ug/l
RT: 1.856 min Scan# 176
Delta R.T. -0.000 min
Lab File: VU060588.D
Acq: 03 Sep 2024 16:29

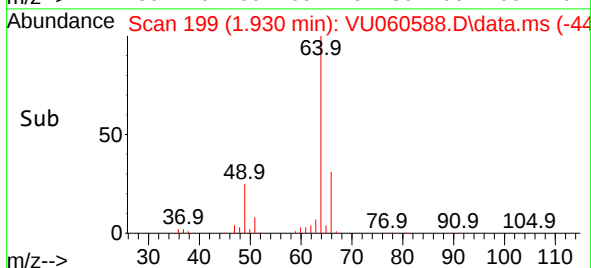
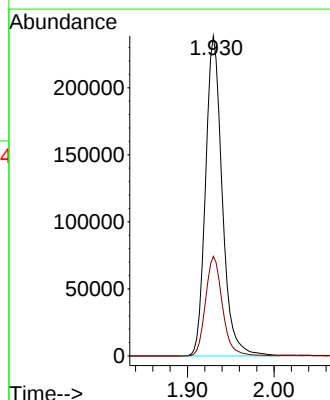
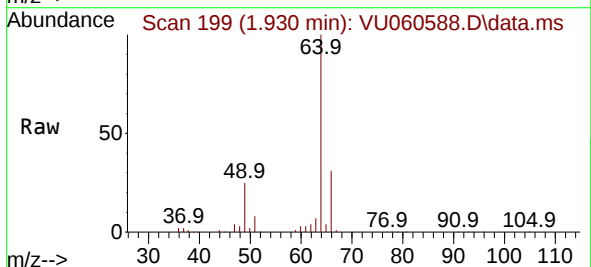
Instrument :
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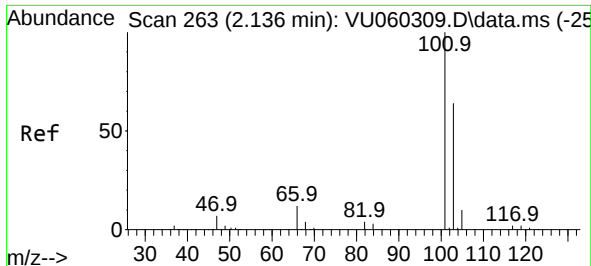
Tgt Ion: 94 Resp: 251811
Ion Ratio Lower Upper
94 100
96 94.3 73.8 110.8



#6
Chloroethane
Concen: 35.289 ug/l
RT: 1.930 min Scan# 199
Delta R.T. -0.000 min
Lab File: VU060588.D
Acq: 03 Sep 2024 16:29

Tgt Ion: 64 Resp: 319148
Ion Ratio Lower Upper
64 100
66 31.1 26.3 39.5

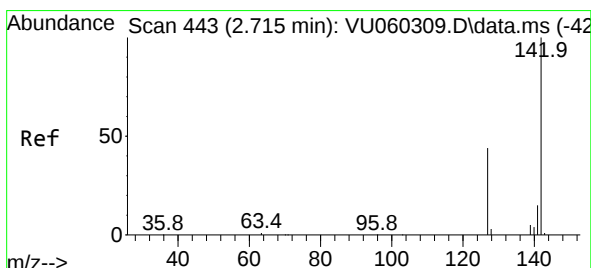
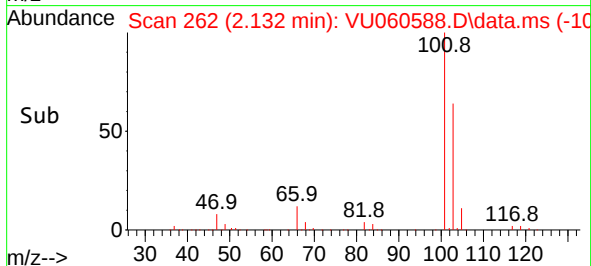
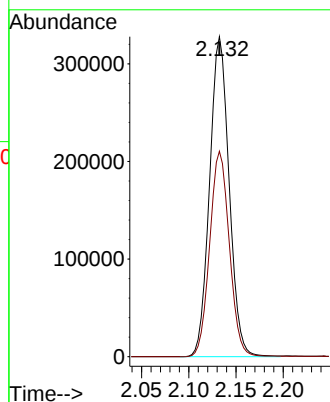
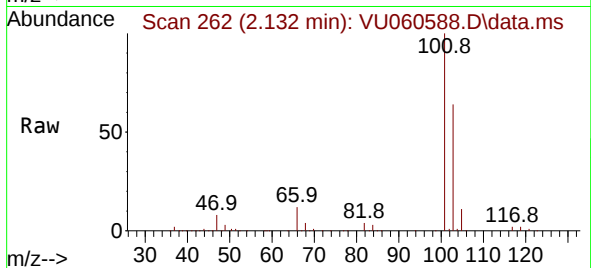




#7
Trichlorofluoromethane
Concen: 26.104 ug/l
RT: 2.132 min Scan# 2
Delta R.T. -0.003 min
Lab File: VU060588.D
Acq: 03 Sep 2024 16:29

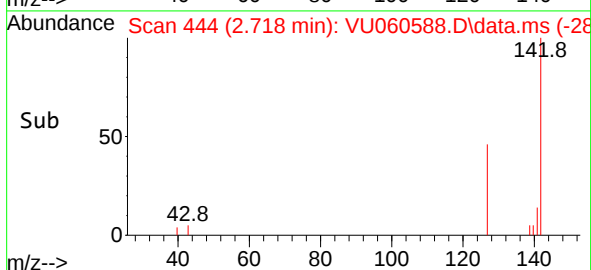
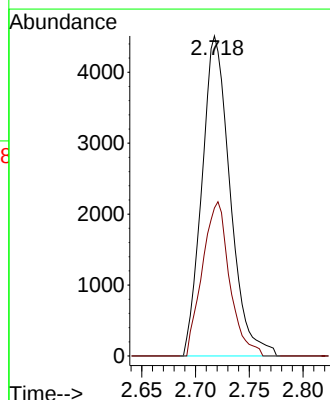
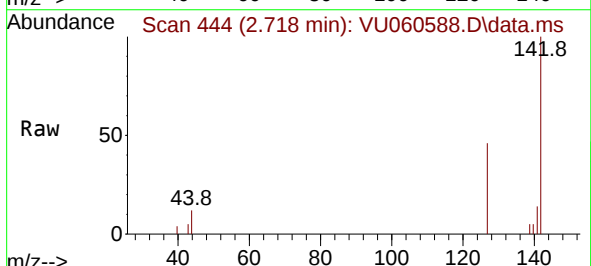
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

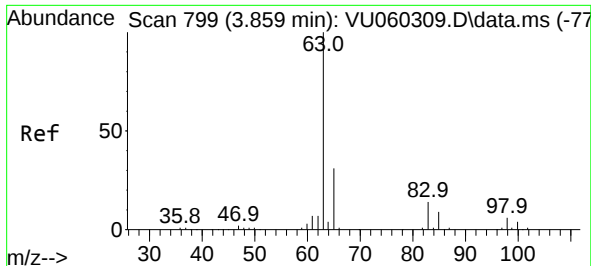
Tgt Ion:101 Resp: 470586
Ion Ratio Lower Upper
101 100
103 64.2 51.0 76.4



#10
Iodomethane
Concen: 0.545 ug/l
RT: 2.718 min Scan# 444
Delta R.T. 0.003 min
Lab File: VU060588.D
Acq: 03 Sep 2024 16:29

Tgt Ion:142 Resp: 8216
Ion Ratio Lower Upper
142 100
127 46.7 35.5 53.3

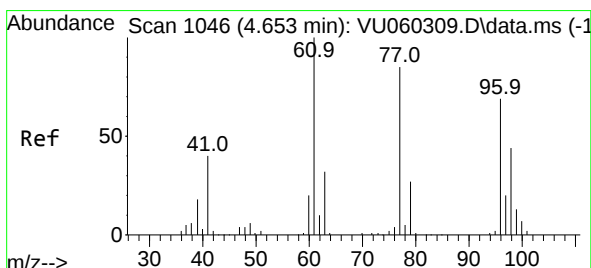
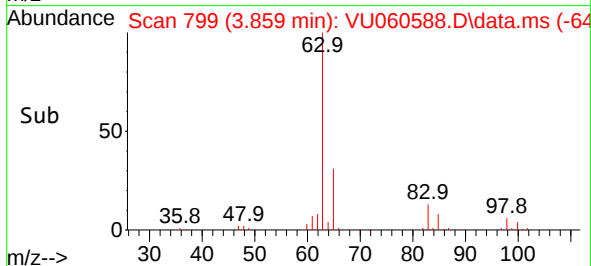
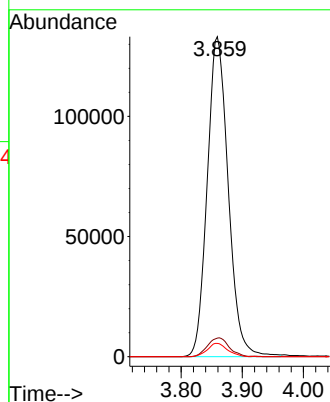
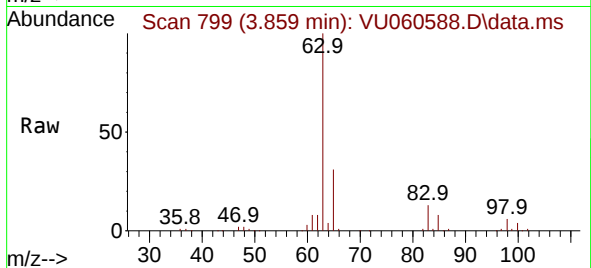




#17
 1,1-Dichloroethane
 Concen: 15.188 ug/l
 RT: 3.859 min Scan# 799
 Delta R.T. -0.000 min
 Lab File: VU060588.D
 Acq: 03 Sep 2024 16:29

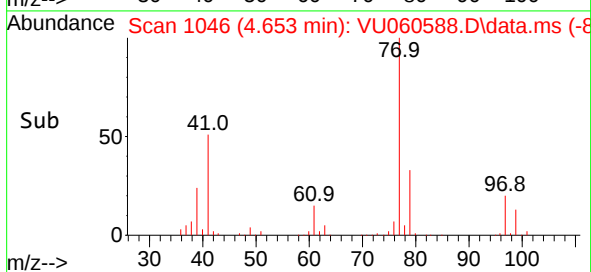
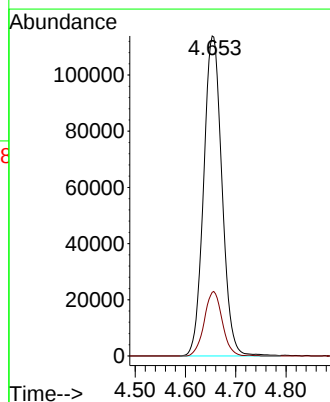
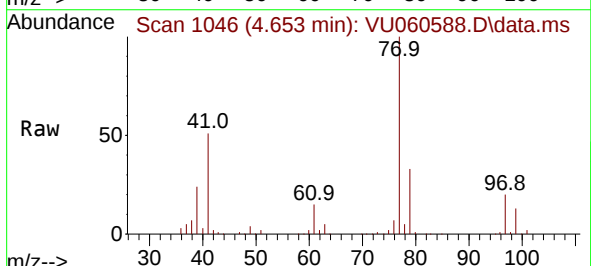
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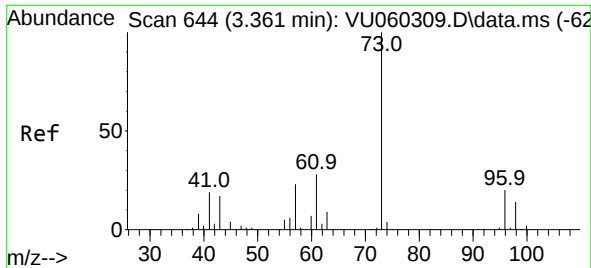
Tgt Ion: 63 Resp: 317920
 Ion Ratio Lower Upper
 63 100
 98 5.8 3.1 9.4
 100 4.4 2.0 5.8



#21
 2,2-Dichloropropane
 Concen: 17.677 ug/l
 RT: 4.653 min Scan# 1046
 Delta R.T. -0.000 min
 Lab File: VU060588.D
 Acq: 03 Sep 2024 16:29

Tgt Ion: 77 Resp: 288169
 Ion Ratio Lower Upper
 77 100
 97 19.7 18.6 27.8

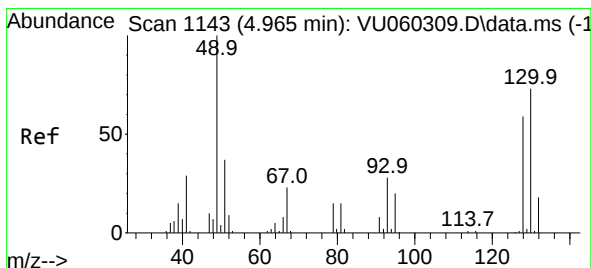
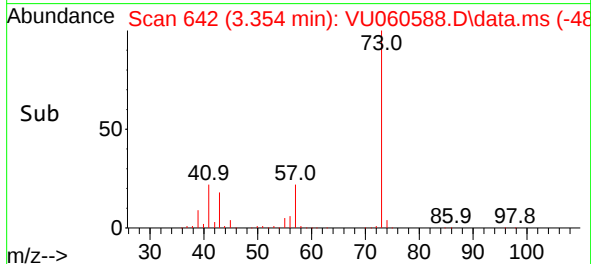
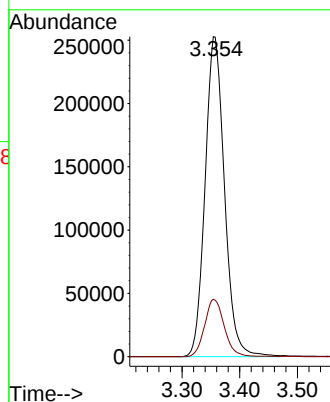
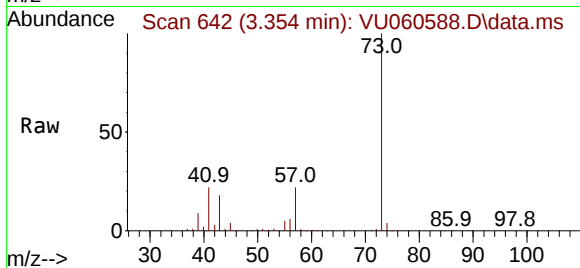




#25
Methyl tert-Butyl Ether
Concen: 23.671 ug/l
RT: 3.354 min Scan# 644
Delta R.T. -0.007 min
Lab File: VU060588.D
Acq: 03 Sep 2024 16:29

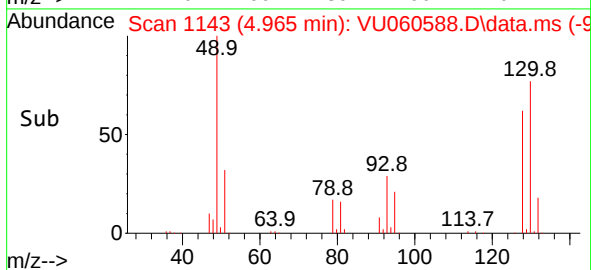
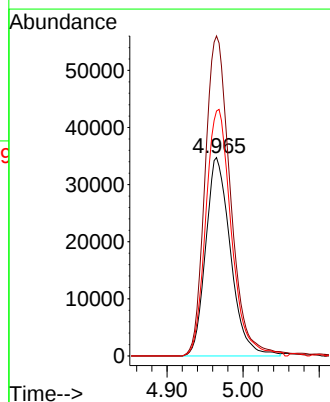
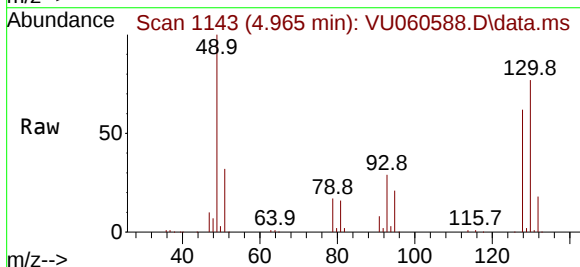
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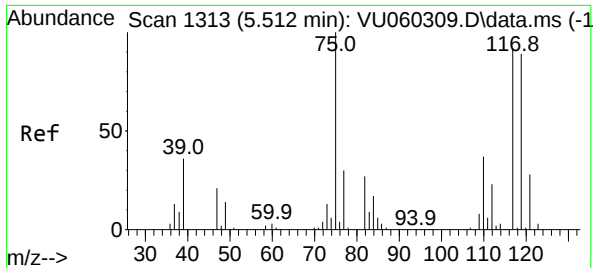
Tgt Ion: 73 Resp: 590475
Ion Ratio Lower Upper
73 100
43 18.1 14.1 21.1



#26
Bromochloromethane
Concen: 15.977 ug/l
RT: 4.965 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VU060588.D
Acq: 03 Sep 2024 16:29

Tgt Ion: 128 Resp: 78905
Ion Ratio Lower Upper
128 100
49 164.5 0.0 340.8
130 127.9 102.1 153.1

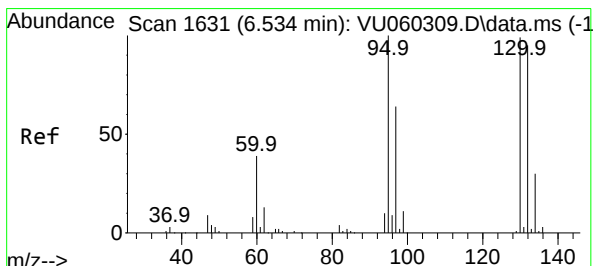
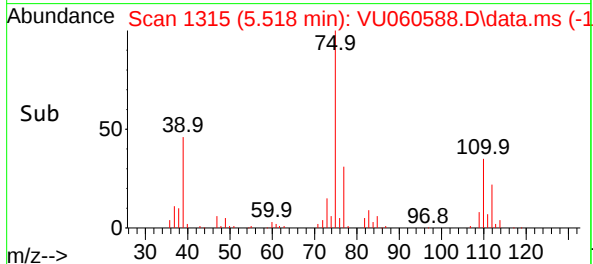
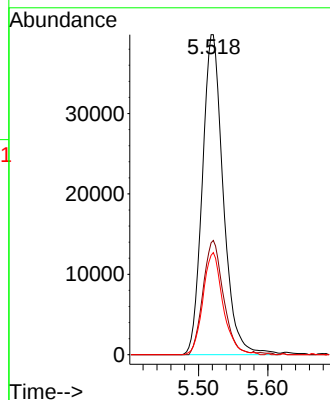
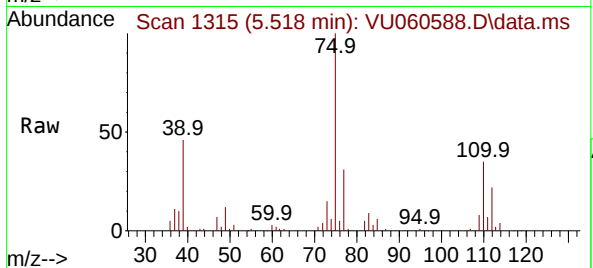




#29
1,1-Dichloropropene
Concen: 6.114 ug/l
RT: 5.518 min Scan# 11
Delta R.T. 0.006 min
Lab File: VU060588.D
Acq: 03 Sep 2024 16:29

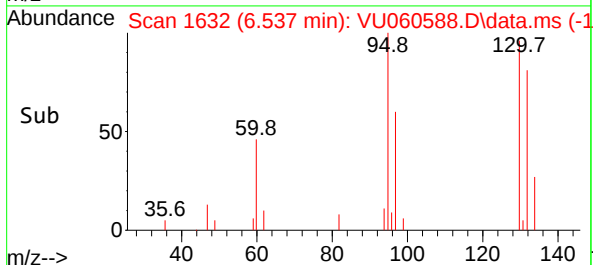
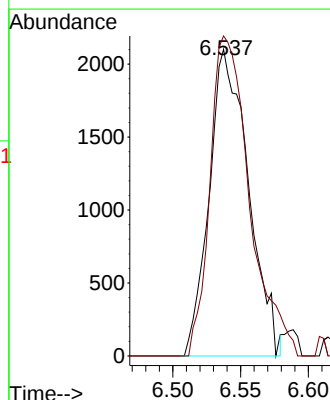
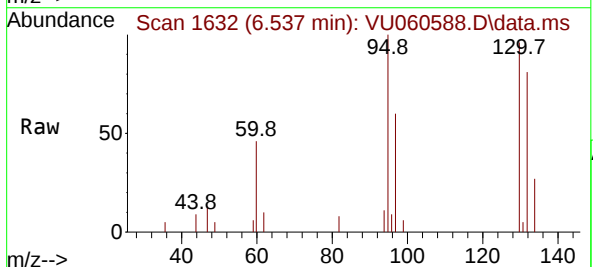
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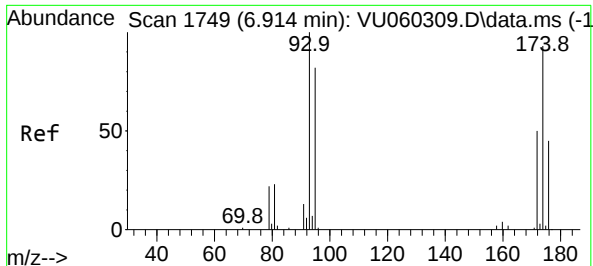
Tgt Ion: 75 Resp: 83357
Ion Ratio Lower Upper
75 100
110 34.7 18.4 55.2
77 30.7 24.8 37.2



#37
Trichloroethene
Concen: 0.405 ug/l
RT: 6.537 min Scan# 1632
Delta R.T. 0.003 min
Lab File: VU060588.D
Acq: 03 Sep 2024 16:29

Tgt Ion: 130 Resp: 4217
Ion Ratio Lower Upper
130 100
95 104.3 80.6 121.0

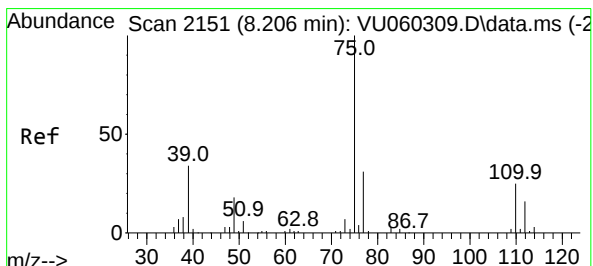
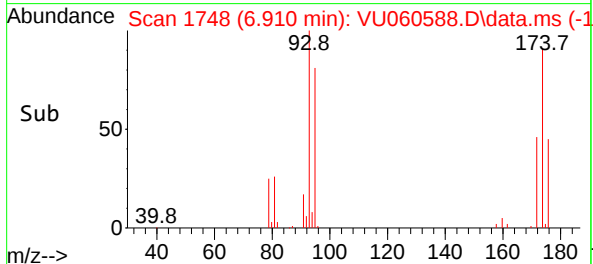
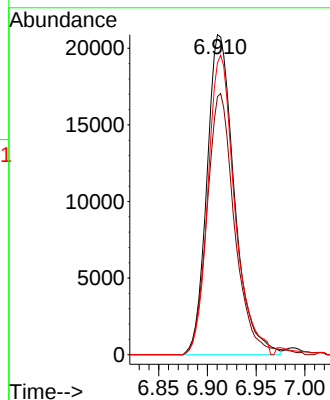
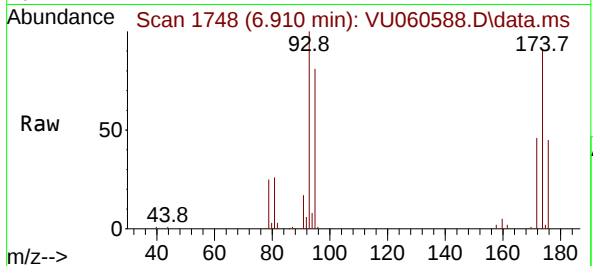




#43
Dibromomethane
Concen: 7.102 ug/l
RT: 6.910 min Scan# 11
Delta R.T. -0.003 min
Lab File: VU060588.D
Acq: 03 Sep 2024 16:29

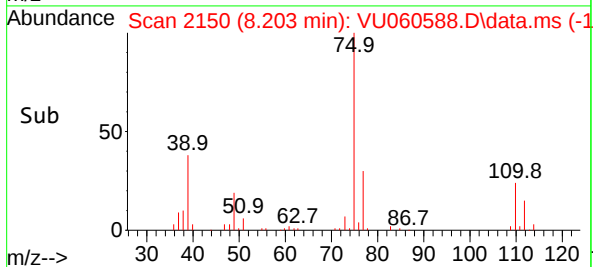
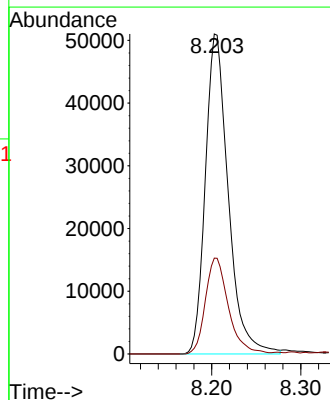
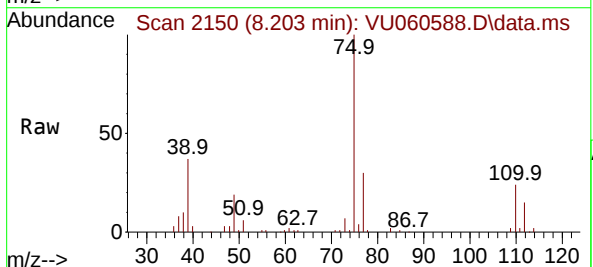
Instrument :
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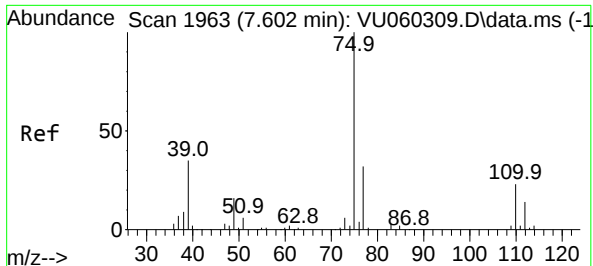
Tgt Ion: 93 Resp: 40828
Ion Ratio Lower Upper
93 100
95 82.3 66.4 99.6
174 91.4 75.2 112.8



#50
t-1,3-Dichloropropene
Concen: 7.975 ug/l
RT: 8.203 min Scan# 2150
Delta R.T. -0.003 min
Lab File: VU060588.D
Acq: 03 Sep 2024 16:29

Tgt Ion: 75 Resp: 90877
Ion Ratio Lower Upper
75 100
77 30.0 24.6 37.0

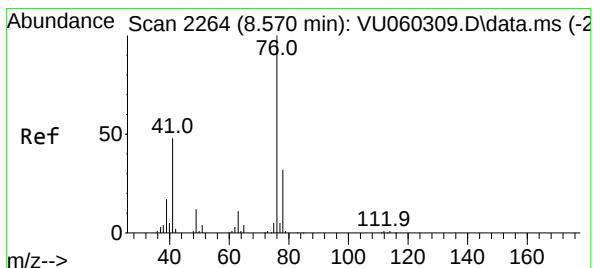
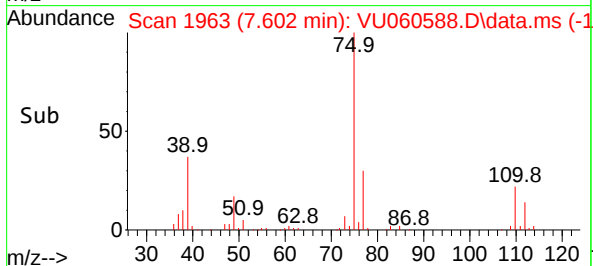
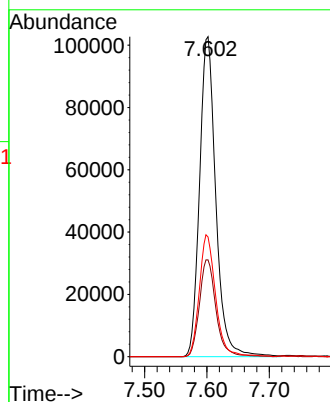
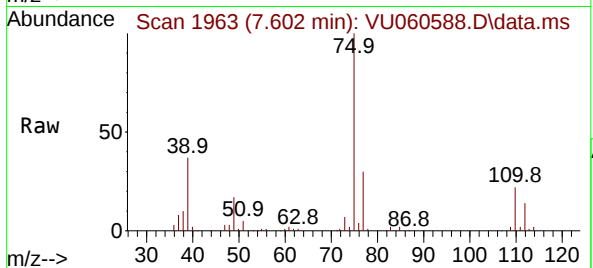




#51
cis-1,3-Dichloropropene
Concen: 13.566 ug/l
RT: 7.602 min Scan# 1963
Delta R.T. -0.000 min
Lab File: VU060588.D
Acq: 03 Sep 2024 16:29

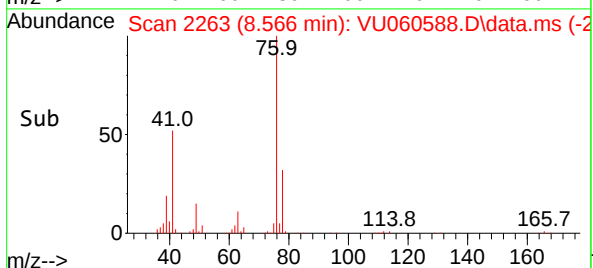
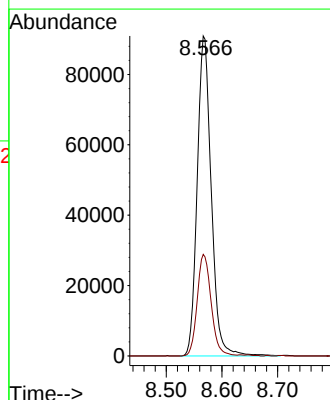
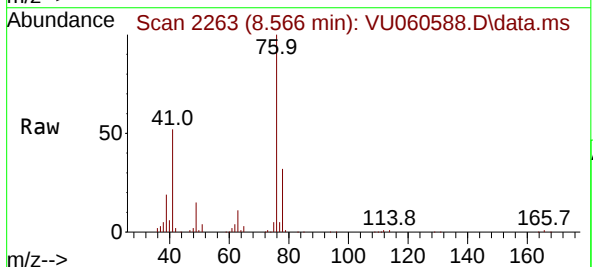
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

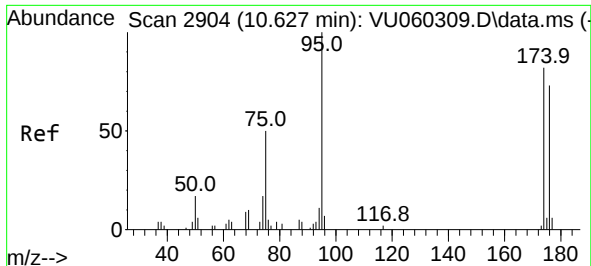
Tgt Ion: 75 Resp: 185961
Ion Ratio Lower Upper
75 100
77 30.2 25.4 38.0
39 37.4 28.0 42.0



#53
1,3-Dichloropropane
Concen: 11.851 ug/l
RT: 8.566 min Scan# 2263
Delta R.T. -0.003 min
Lab File: VU060588.D
Acq: 03 Sep 2024 16:29

Tgt Ion: 76 Resp: 159579
Ion Ratio Lower Upper
76 100
78 31.5 26.2 39.2

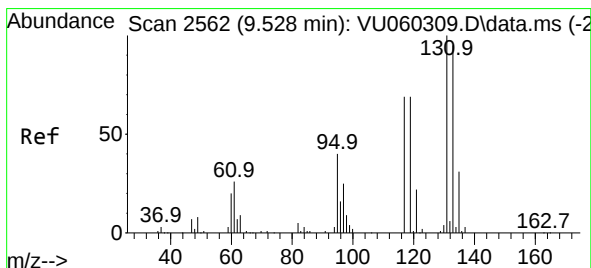
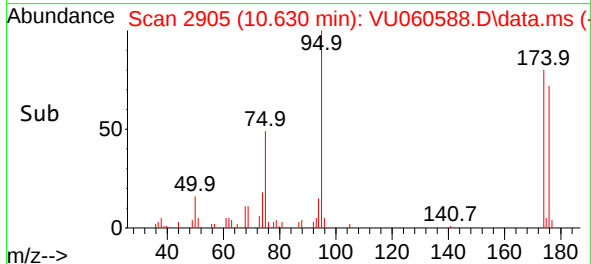
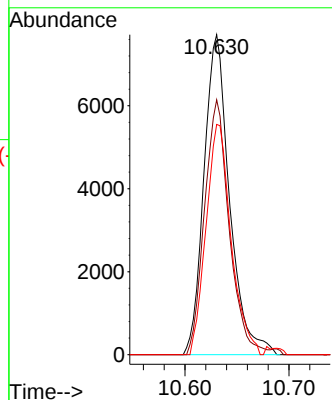
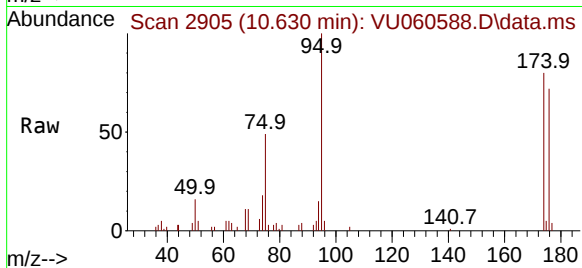




#57
4-Bromofluorobenzene
Concen: 1.140 ug/l
RT: 10.630 min Scan# 2905
Delta R.T. 0.003 min
Lab File: VU060588.D
Acq: 03 Sep 2024 16:29

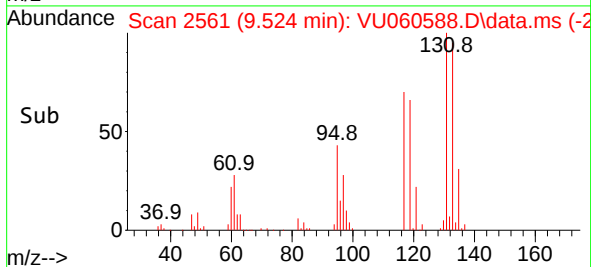
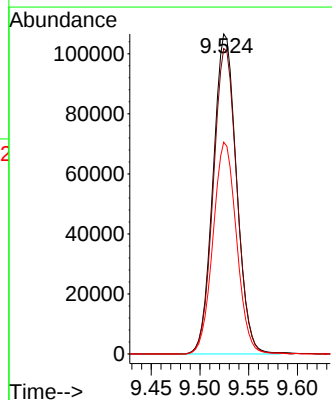
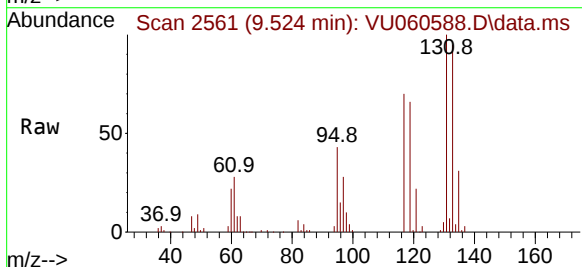
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

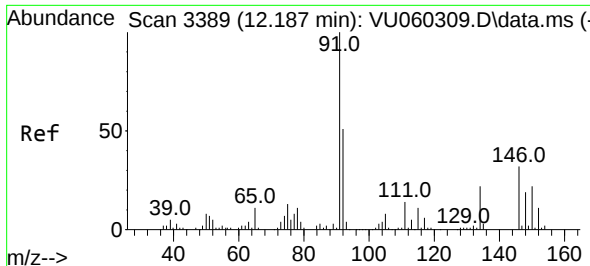
Tgt Ion: 95 Resp: 13200
Ion Ratio Lower Upper
95 100
174 76.9 65.6 98.4
176 70.5 60.4 90.6



#60
1,1,1,2-Tetrachloroethane
Concen: 17.951 ug/l
RT: 9.524 min Scan# 2561
Delta R.T. -0.003 min
Lab File: VU060588.D
Acq: 03 Sep 2024 16:29

Tgt Ion: 131 Resp: 178376
Ion Ratio Lower Upper
131 100
133 96.0 77.2 115.8
119 66.4 55.4 83.2

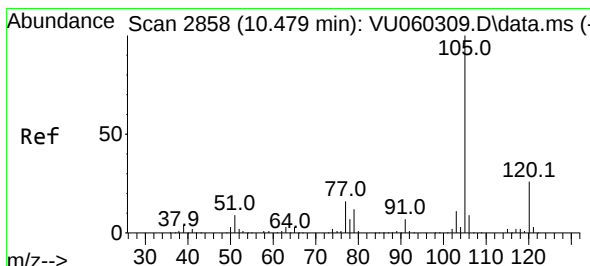
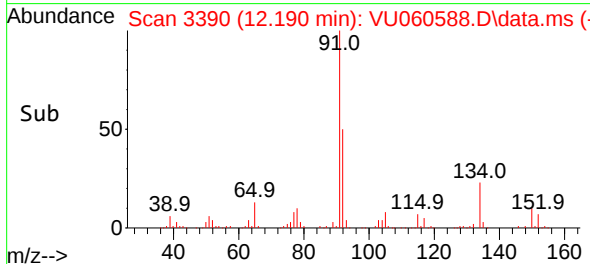
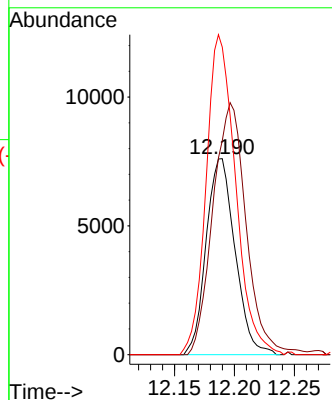
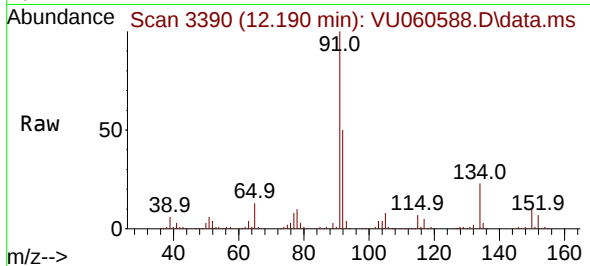




#68
1,2-Dichlorobenzene-d4
Concen: 1.014 ug/l
RT: 12.190 min Scan# 31
Delta R.T. 0.003 min
Lab File: VU060588.D
Acq: 03 Sep 2024 16:29

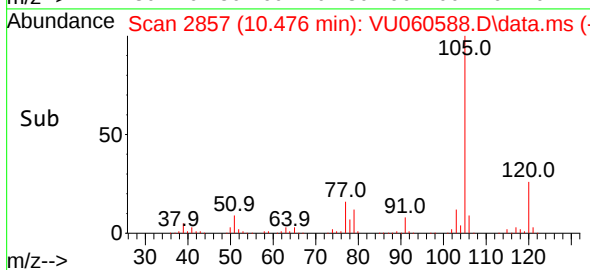
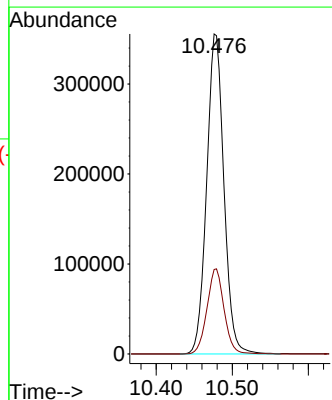
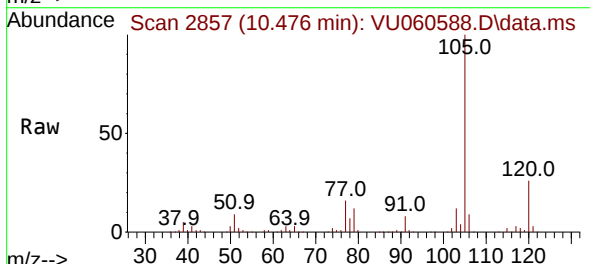
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

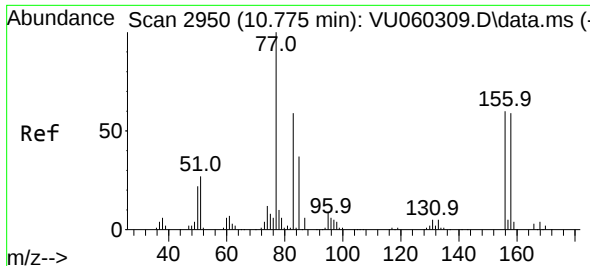
Tgt Ion:152 Resp: 12761
Ion Ratio Lower Upper
152 100
115 147.7 0.0 325.2
150 166.3 0.0 684.2



#69
Isopropylbenzene
Concen: 11.689 ug/l
RT: 10.476 min Scan# 2857
Delta R.T. -0.003 min
Lab File: VU060588.D
Acq: 03 Sep 2024 16:29

Tgt Ion:105 Resp: 559738
Ion Ratio Lower Upper
105 100
120 26.4 13.0 39.0

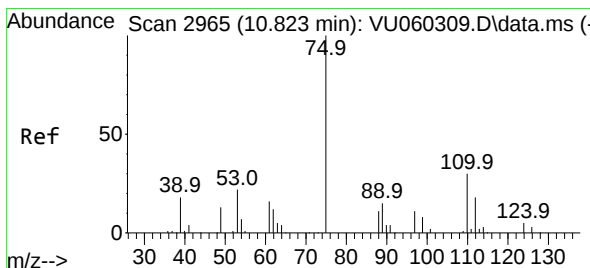
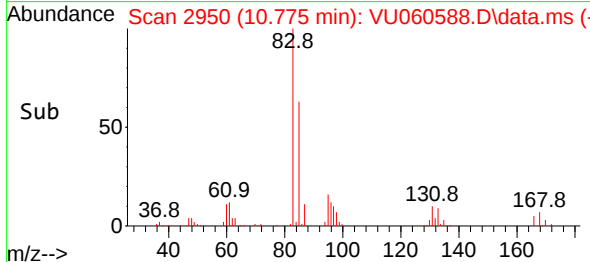
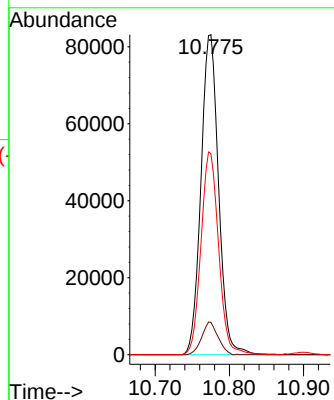
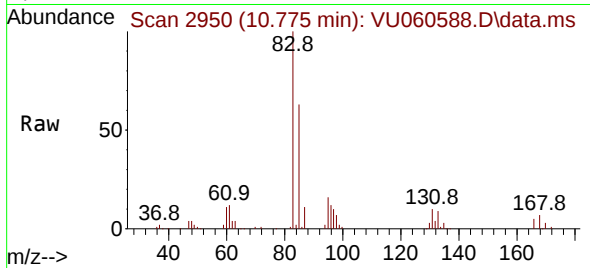




#70
 1,1,2,2-Tetrachloroethane
 Concen: 12.197 ug/l
 RT: 10.775 min Scan# 2950
 Delta R.T. -0.000 min
 Lab File: VU060588.D
 Acq: 03 Sep 2024 16:29

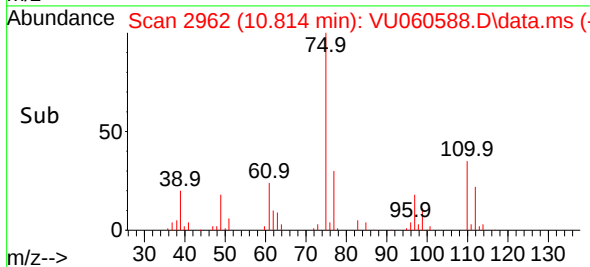
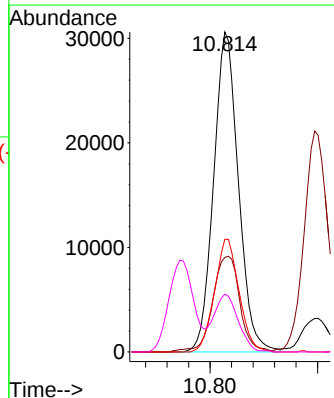
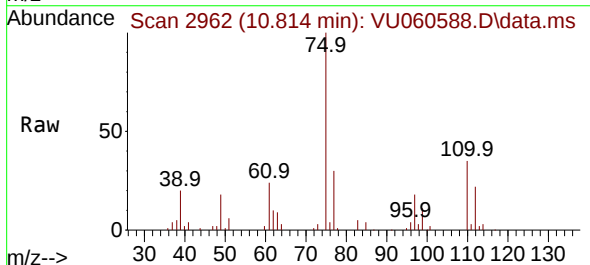
Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WS

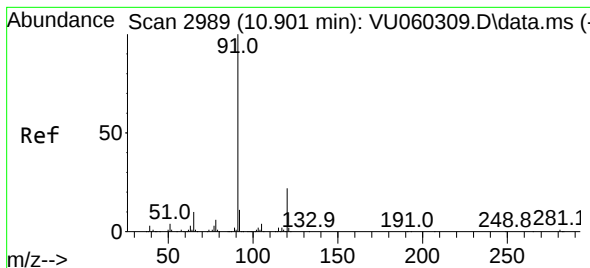
Tgt Ion: 83 Resp: 136970
 Ion Ratio Lower Upper
 83 100
 131 9.4 7.1 10.7
 85 63.4 50.9 76.3



#71
 1,2,3-Trichloropropane
 Concen: 5.879 ug/l
 RT: 10.814 min Scan# 2962
 Delta R.T. -0.010 min
 Lab File: VU060588.D
 Acq: 03 Sep 2024 16:29

Tgt Ion: 75 Resp: 48902
 Ion Ratio Lower Upper
 75 100
 77 32.6 0.0 102.2
 110 34.9 0.0 67.4
 97 18.2 0.0 38.2





#73

n-propylbenzene

Concen: 13.026 ug/l

RT: 10.897 min Scan# 2988

Delta R.T. -0.004 min

Lab File: VU060588.D

Acq: 03 Sep 2024 16:29

Instrument :

MSVOA_U

ClientSampleId :

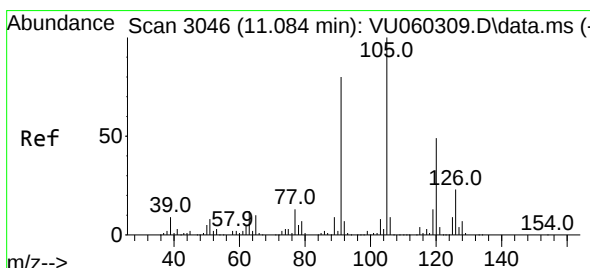
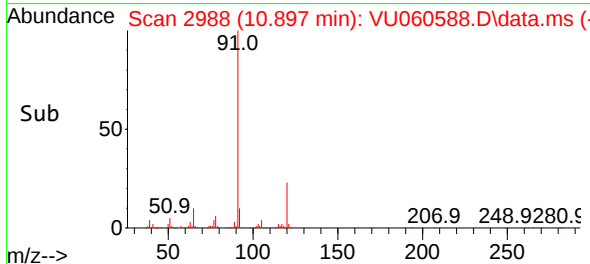
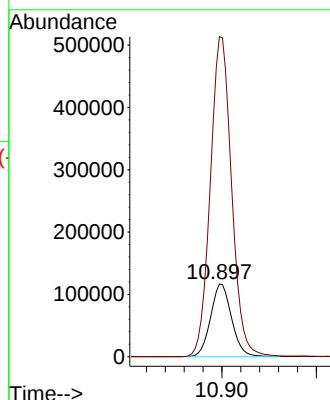
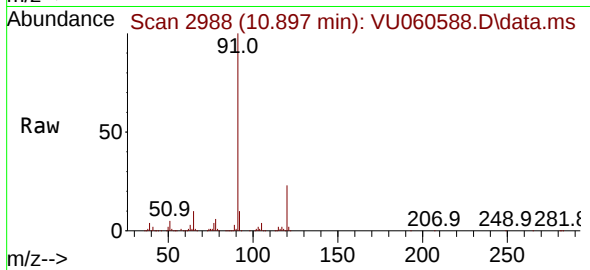
PT-UNRVOA-WS

Tgt Ion:120 Resp: 179941

Ion Ratio Lower Upper

120 100

91 446.9 362.2 543.2



#75

1,3,5-Trimethylbenzene

Concen: 13.674 ug/l

RT: 11.081 min Scan# 3045

Delta R.T. -0.003 min

Lab File: VU060588.D

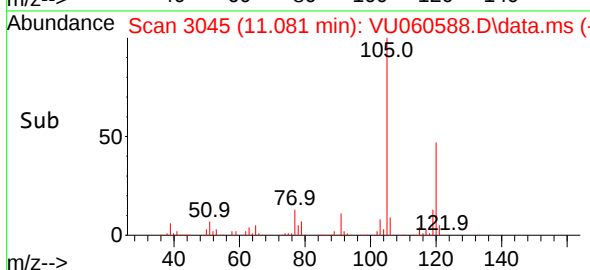
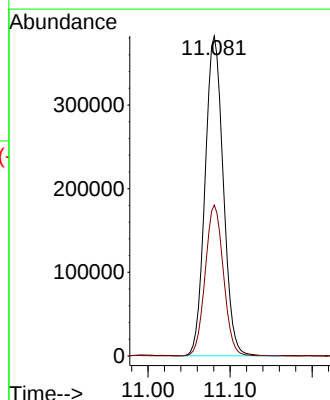
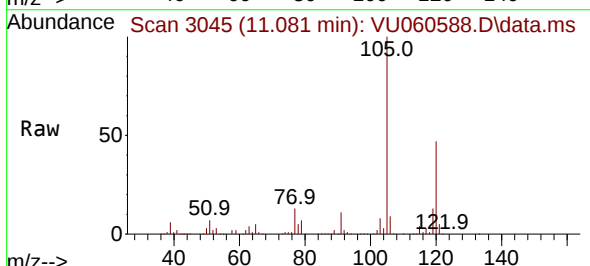
Acq: 03 Sep 2024 16:29

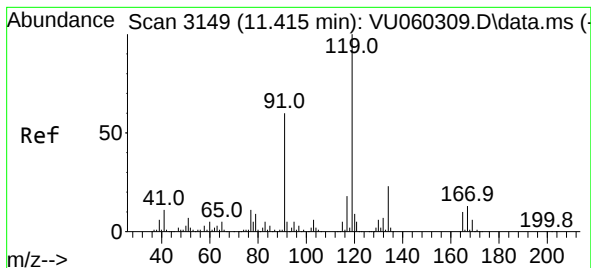
Tgt Ion:105 Resp: 587582

Ion Ratio Lower Upper

105 100

120 47.3 38.6 57.8





#77

tert-Butylbenzene

Concen: 15.528 ug/l

RT: 11.412 min Scan# 3149

Delta R.T. -0.003 min

Lab File: VU060588.D

Acq: 03 Sep 2024 16:29

Instrument :

MSVOA_U

ClientSampleId :

PT-UNRVOA-WS

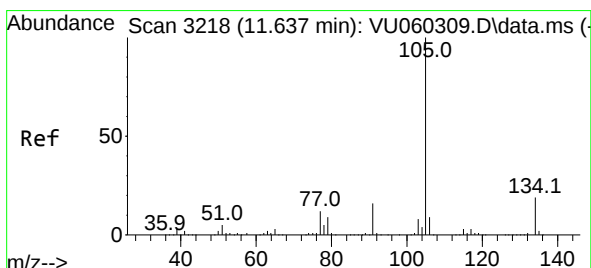
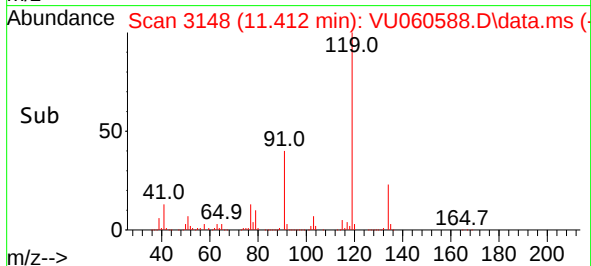
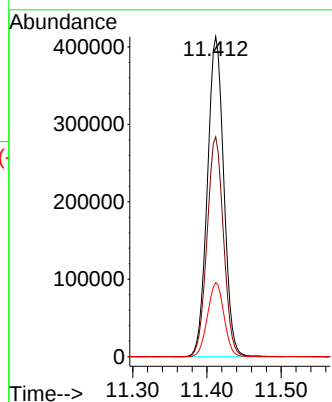
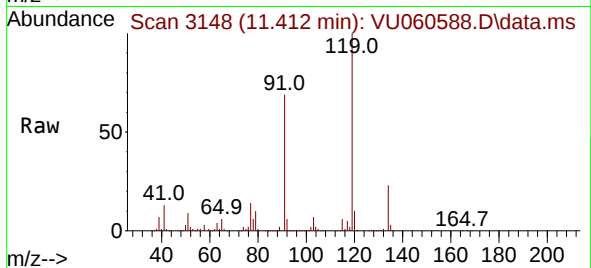
Tgt Ion:119 Resp: 632558

Ion Ratio Lower Upper

119 100

91 69.1 29.0 87.1

134 23.3 17.8 26.8



#79

sec-Butylbenzene

Concen: 5.540 ug/l

RT: 11.637 min Scan# 3218

Delta R.T. -0.000 min

Lab File: VU060588.D

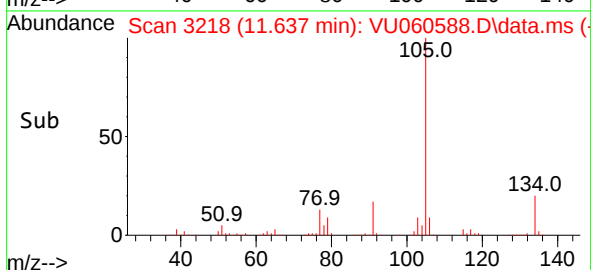
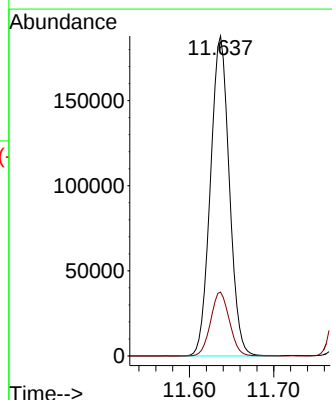
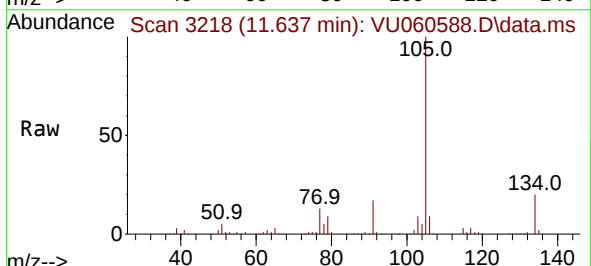
Acq: 03 Sep 2024 16:29

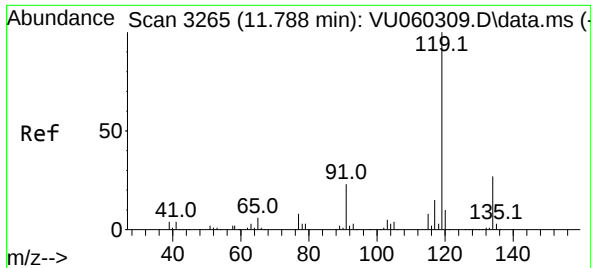
Tgt Ion:105 Resp: 292747

Ion Ratio Lower Upper

105 100

134 19.9 15.5 23.3

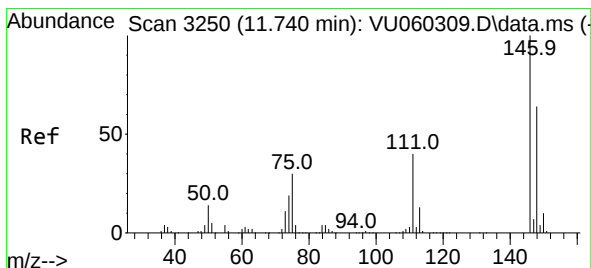
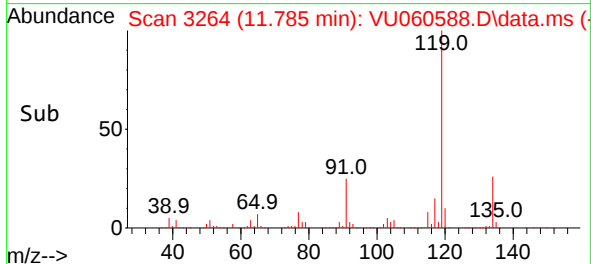
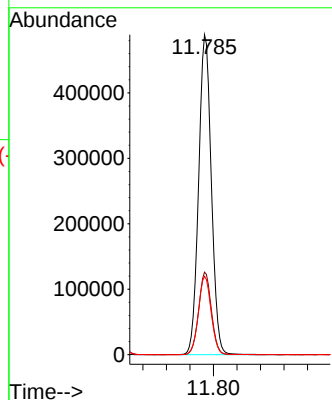
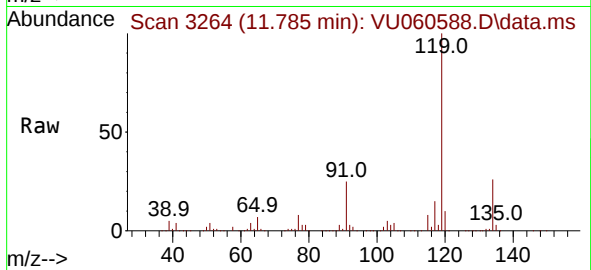




#81
p-Isopropyltoluene
Concen: 15.699 ug/l
RT: 11.785 min Scan# 31
Delta R.T. -0.003 min
Lab File: VU060588.D
Acq: 03 Sep 2024 16:29

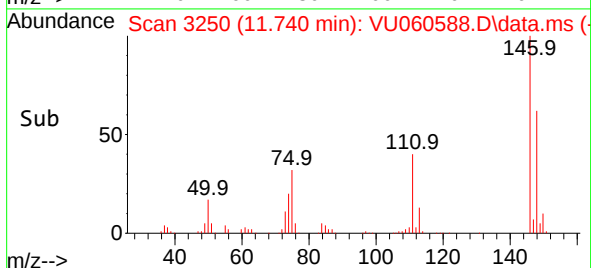
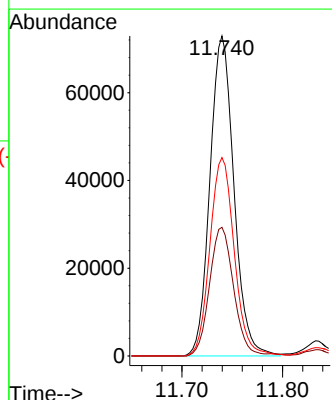
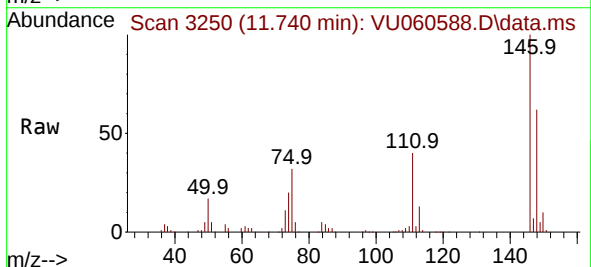
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

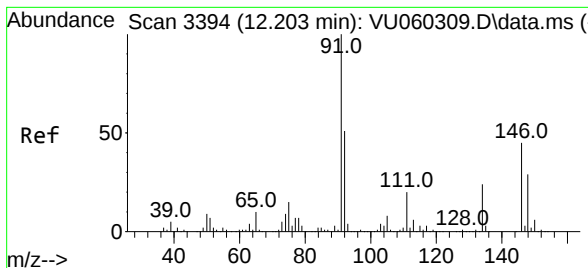
Tgt Ion:119 Resp: 731391
Ion Ratio Lower Upper
119 100
134 25.8 21.2 31.8
91 24.6 18.9 28.3



#82
1,3-Dichlorobenzene
Concen: 5.597 ug/l
RT: 11.740 min Scan# 3250
Delta R.T. -0.000 min
Lab File: VU060588.D
Acq: 03 Sep 2024 16:29

Tgt Ion:146 Resp: 120929
Ion Ratio Lower Upper
146 100
111 40.6 32.0 48.0
148 63.1 51.4 77.0





#84

n-Butylbenzene

Concen: 7.948 ug/l

RT: 12.200 min Scan# 31

Delta R.T. -0.003 min

Lab File: VU060588.D

Acq: 03 Sep 2024 16:29

Instrument :

MSVOA_U

ClientSampleId :

PT-UNRVOA-WS

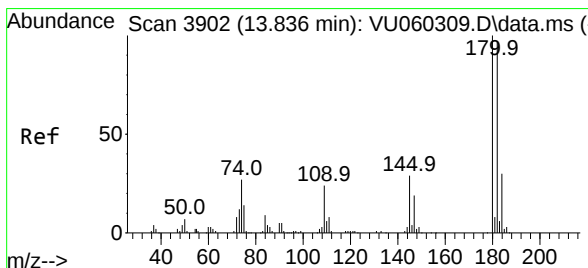
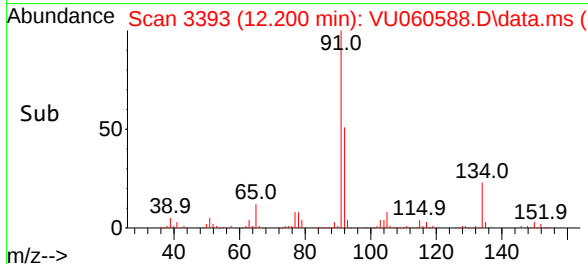
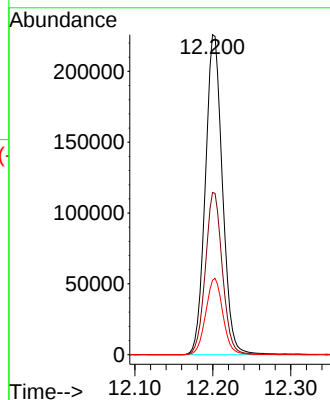
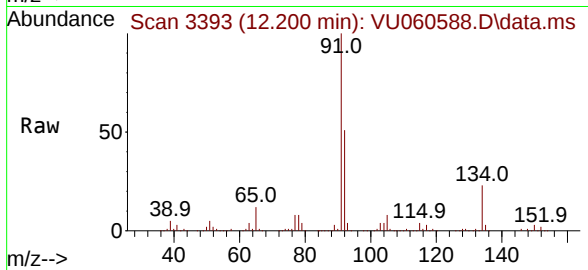
Tgt Ion: 91 Resp: 345600

Ion Ratio Lower Upper

91 100

92 50.3 41.0 61.6

134 24.0 19.4 29.2



#87

1,2,4-Trichlorobenzene

Concen: 0.506 ug/l

RT: 13.836 min Scan# 3902

Delta R.T. 0.000 min

Lab File: VU060588.D

Acq: 03 Sep 2024 16:29

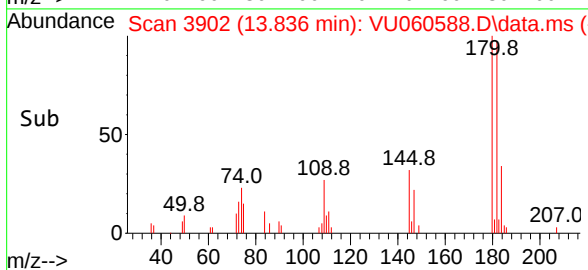
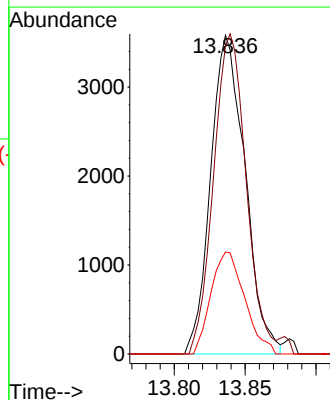
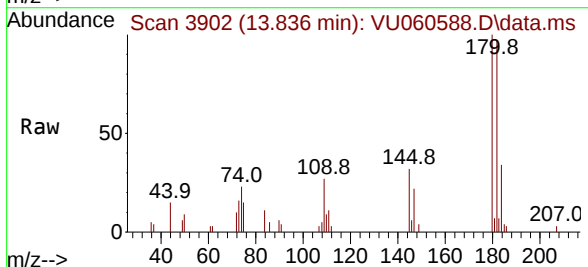
Tgt Ion:180 Resp: 6046

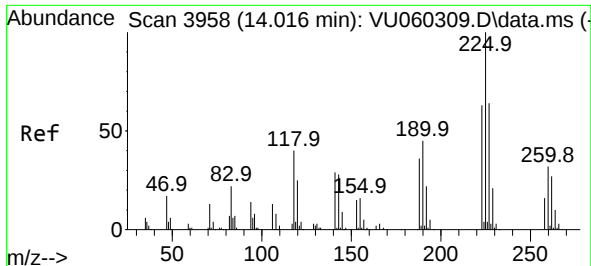
Ion Ratio Lower Upper

180 100

182 95.0 76.8 115.2

145 31.4 23.4 35.0

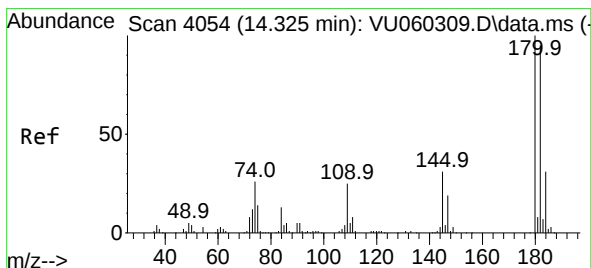
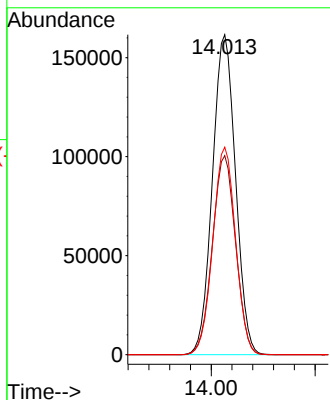
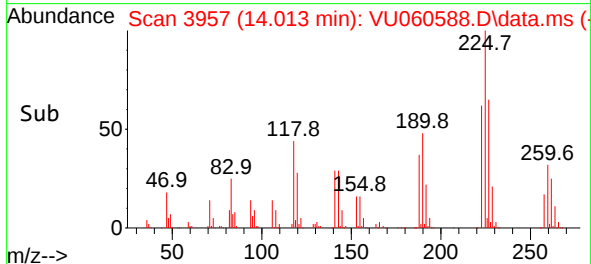
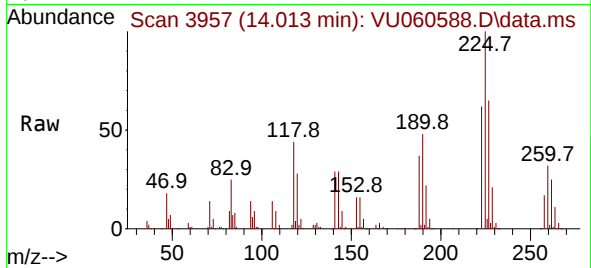




#88
Hexachlorobutadiene
Concen: 32.242 ug/l
RT: 14.013 min Scan# 3958
Delta R.T. -0.003 min
Lab File: VU060588.D
Acq: 03 Sep 2024 16:29

Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

Tgt Ion:225 Resp: 249195
Ion Ratio Lower Upper
225 100
223 62.7 50.8 76.2
227 63.9 50.8 76.2



#90
1,2,3-Trichlorobenzene
Concen: 17.082 ug/l
RT: 14.322 min Scan# 4053
Delta R.T. -0.003 min
Lab File: VU060588.D
Acq: 03 Sep 2024 16:29

Tgt Ion:180 Resp: 199334
Ion Ratio Lower Upper
180 100
182 97.5 76.1 114.1
145 31.9 25.0 37.6

