

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU072623\
 Data File : VU054887.D
 Acq On : 26 Jul 2023 19:46
 Operator : MD/SY
 Sample : 03587-08
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WS

Quant Time: Jul 28 03:25:42 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U072523DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Wed Jul 26 09:45:35 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

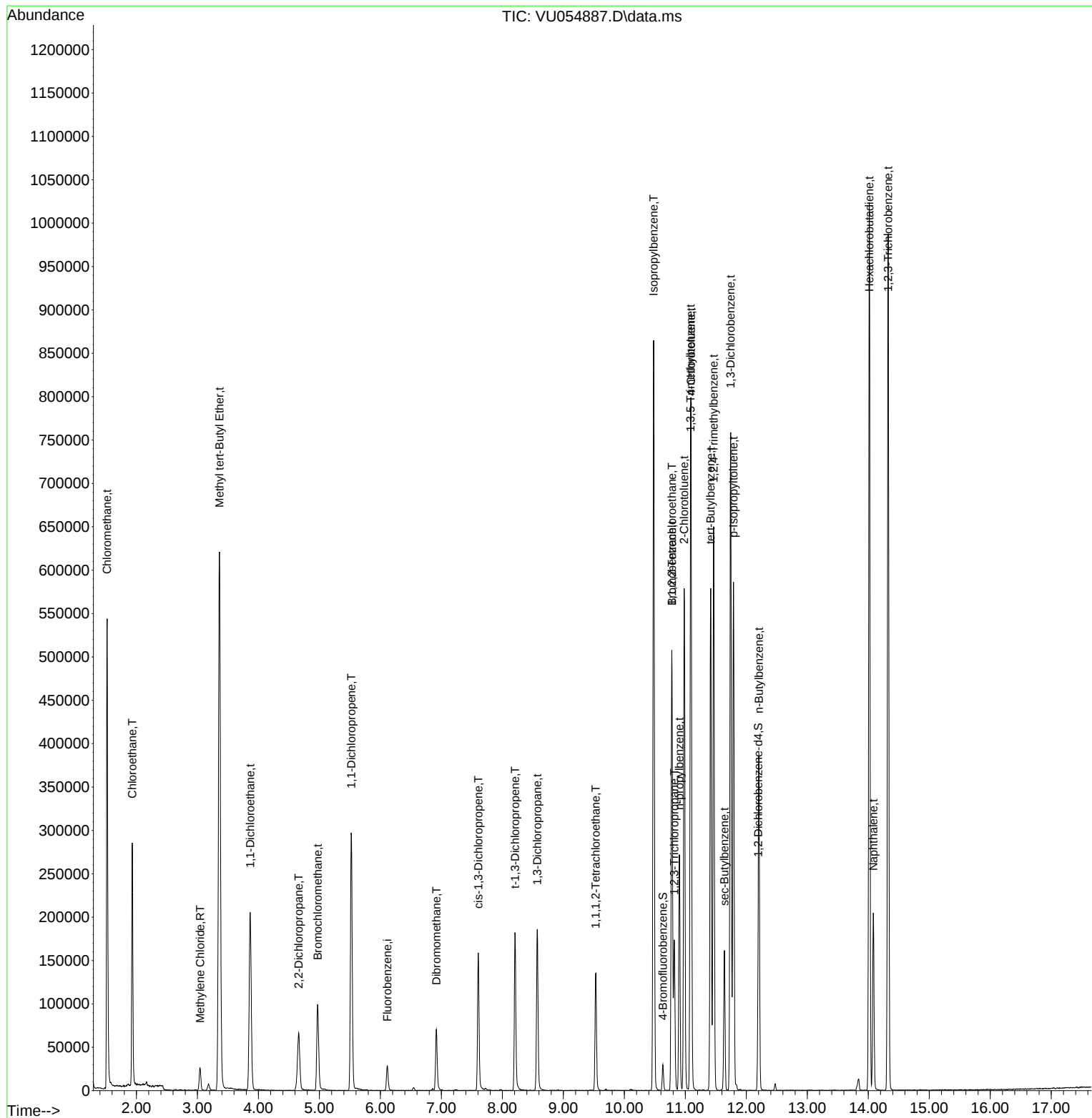
Internal Standards						
1) Fluorobenzene	6.113	96	26315	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.631	95	8264	1.036	ug/l	0.00
Spiked Amount 1.000			Recovery	=	104.000%	
68) 1,2-Dichlorobenzene-d4	12.193	152	10426	1.156	ug/l	0.00
Spiked Amount 1.000			Recovery	=	116.000%	
Target Compounds						
						Qvalue
3) Chloromethane	1.518	50	419519	74.526	ug/l	98
6) Chloroethane	1.930	64	171807	22.111	ug/l	98
15) Methylene Chloride	3.042	84	12725	2.154	ug/l	96
17) 1,1-Dichloroethane	3.866	63	231814	20.956	ug/l	97
21) 2,2-Dichloropropane	4.660	77	44154	4.306	ug/l	98
25) Methyl tert-Butyl Ether	3.361	73	749836	53.336	ug/l	97
26) Bromochloromethane	4.972	128	32520	12.064	ug/l	98
29) 1,1-Dichloropropene	5.521	75	159806	21.114	ug/l	98
43) Dibromomethane	6.917	93	27504	8.740	ug/l	95
50) t-1,3-Dichloropropene	8.206	75	101859	13.085	ug/l	98
51) cis-1,3-Dichloropropene	7.605	75	92343	9.651	ug/l	97
53) 1,3-Dichloropropane	8.573	76	111740	13.846	ug/l	97
60) 1,1,1,2-Tetrachloroethane	9.531	131	34859	5.389	ug/l	97
69) Isopropylbenzene	10.479	105	557710	17.583	ug/l	98
70) 1,1,2,2-Tetrachloroethane	10.779	83	44460	7.200	ug/l	96
71) 1,2,3-Trichloropropane	10.817	75	66984	15.229	ug/l #	97
72) Bromobenzene	10.779	156	115775	16.394	ug/l	99
73) n-propylbenzene	10.901	120	46672	5.498	ug/l	100
74) 2-Chlorotoluene	10.981	126	110049	14.975	ug/l	98
75) 1,3,5-Trimethylbenzene	11.084	105	189867	7.392	ug/l	100
76) 4-Chlorotoluene	11.094	126	101909	13.348	ug/l	95
77) tert-Butylbenzene	11.415	119	276770	10.361	ug/l	93
78) 1,2,4-Trimethylbenzene	11.463	105	348009	13.234	ug/l	98
79) sec-Butylbenzene	11.640	105	108921	3.137	ug/l	99
81) p-Isopropyltoluene	11.788	119	330988	12.077	ug/l	99
82) 1,3-Dichlorobenzene	11.743	146	305360	20.310	ug/l	100
84) n-Butylbenzene	12.206	91	207722	8.438	ug/l	98
88) Hexachlorobutadiene	14.016	225	159193	32.472	ug/l	99
89) Naphthalene	14.084	128	159979	11.239	ug/l	99
90) 1,2,3-Trichlorobenzene	14.325	180	279675	34.292	ug/l	98

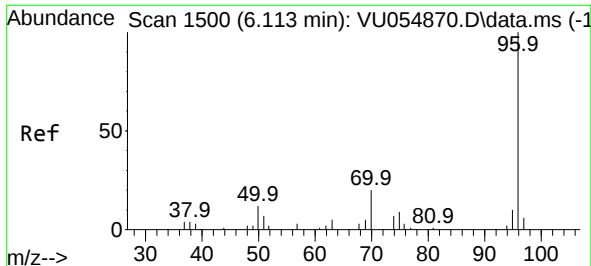
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jul 26 09:45:35 2023
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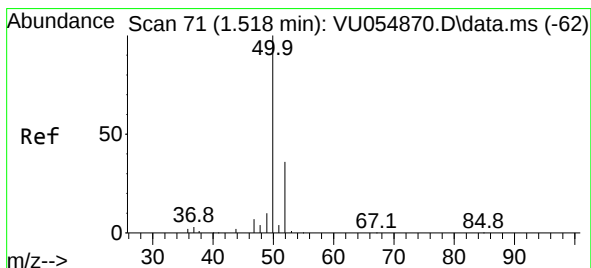
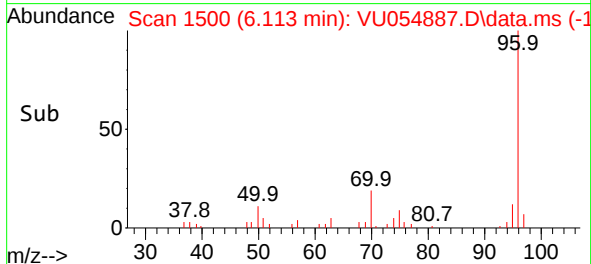
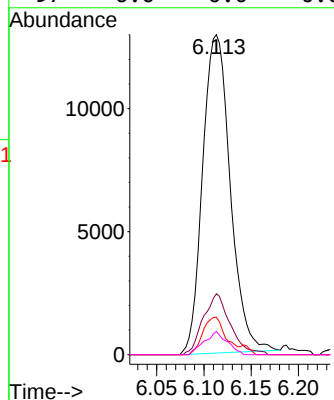
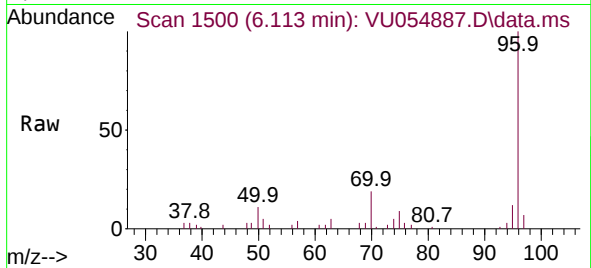




#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.113 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU054887.D
Acq: 26 Jul 2023 19:46

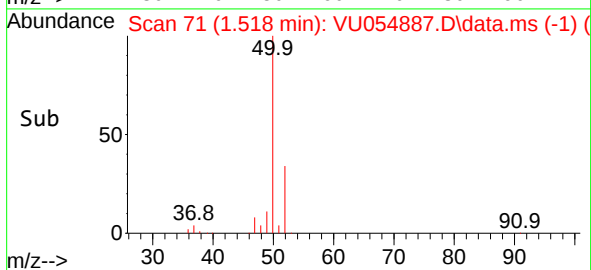
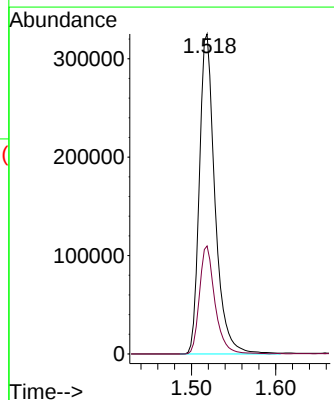
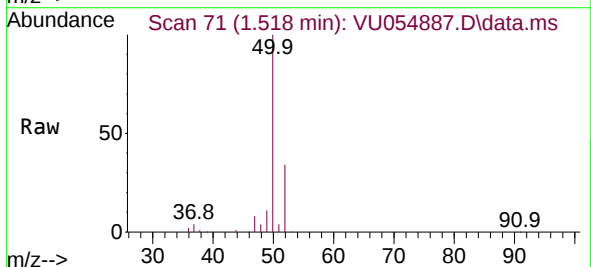
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

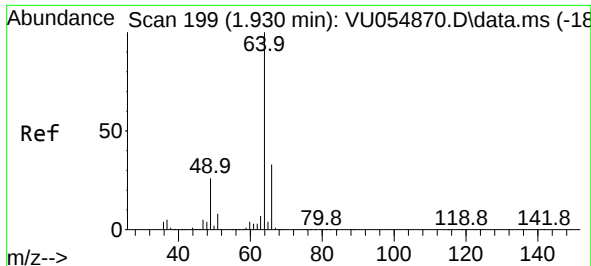
Tgt Ion:	96	Resp:	26315
Ion	Ratio	Lower	Upper
96	100		
70	18.7	14.0	21.0
95	7.8	8.7	13.1#
97	6.0	0.0	0.0#



#3
Chloromethane
Concen: 74.526 ug/l
RT: 1.518 min Scan# 71
Delta R.T. 0.000 min
Lab File: VU054887.D
Acq: 26 Jul 2023 19:46

Tgt Ion:	50	Resp:	419519
Ion	Ratio	Lower	Upper
50	100		
52	33.7	28.2	42.2

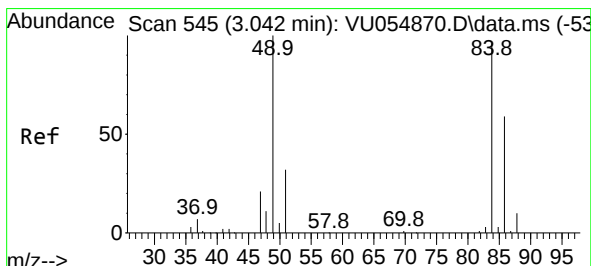
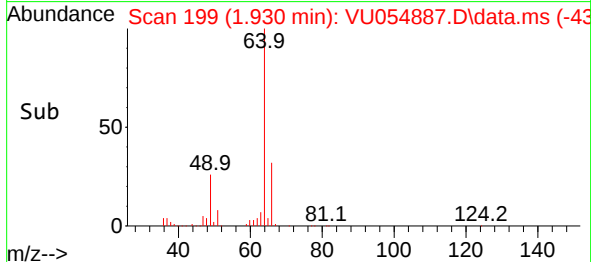
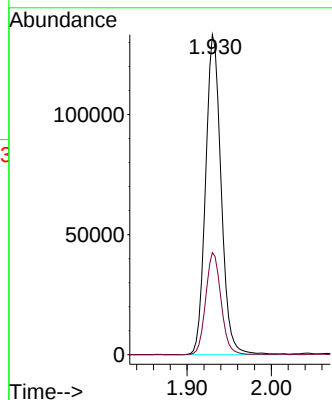
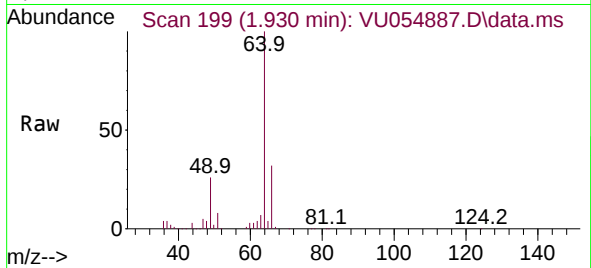




#6
Chloroethane
Concen: 22.111 ug/l
RT: 1.930 min Scan# 199
Delta R.T. 0.000 min
Lab File: VU054887.D
Acq: 26 Jul 2023 19:46

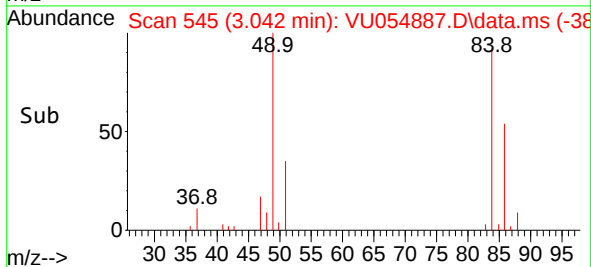
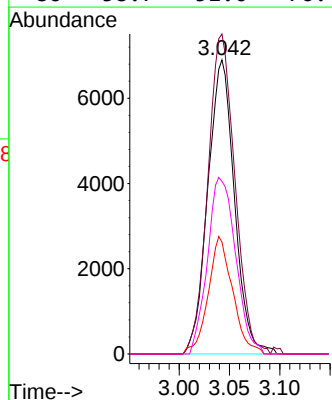
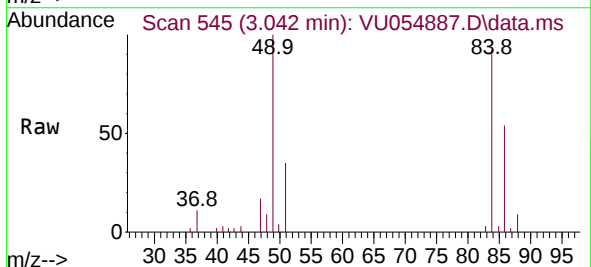
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

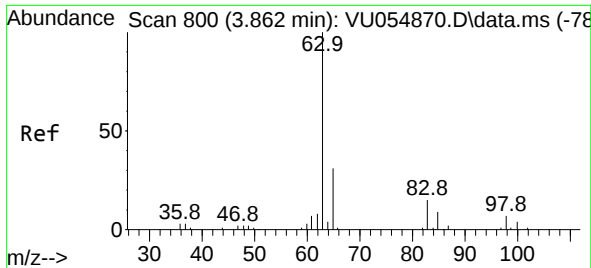
Tgt Ion: 64 Resp: 171807
Ion Ratio Lower Upper
64 100
66 31.9 26.2 39.4



#15
Methylene Chloride
Concen: 2.154 ug/l
RT: 3.042 min Scan# 545
Delta R.T. 0.000 min
Lab File: VU054887.D
Acq: 26 Jul 2023 19:46

Tgt Ion: 84 Resp: 12725
Ion Ratio Lower Upper
84 100
49 108.8 87.8 131.6
51 38.0 0.0 68.2
86 58.7 51.0 76.4

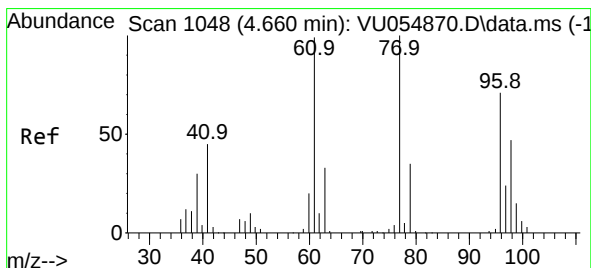
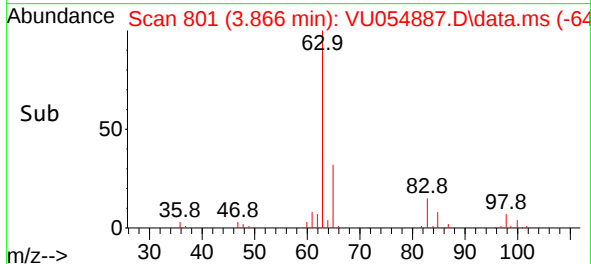
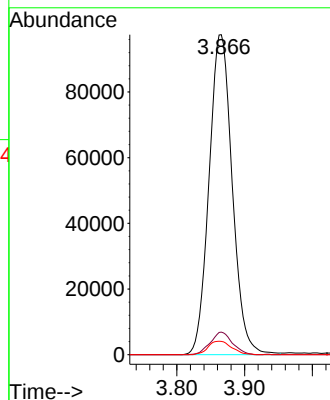
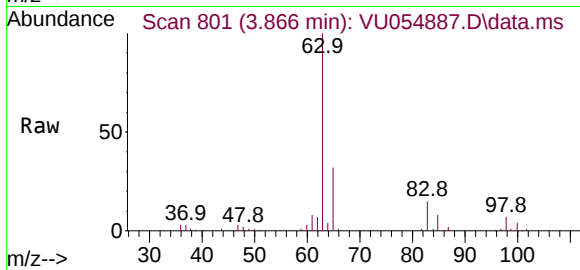




#17
 1,1-Dichloroethane
 Concen: 20.956 ug/l
 RT: 3.866 min Scan# 800
 Delta R.T. 0.003 min
 Lab File: VU054887.D
 Acq: 26 Jul 2023 19:46

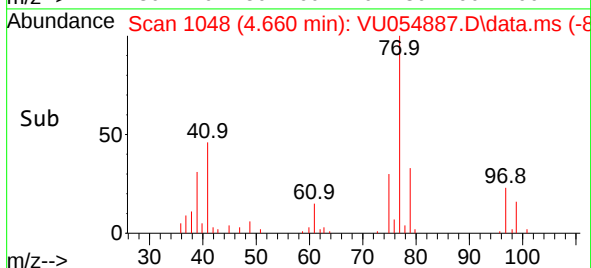
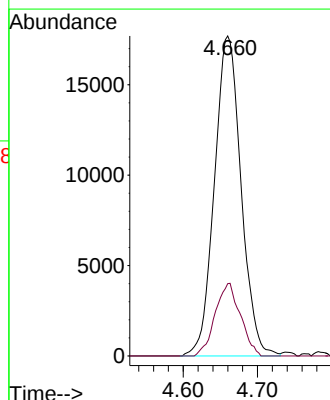
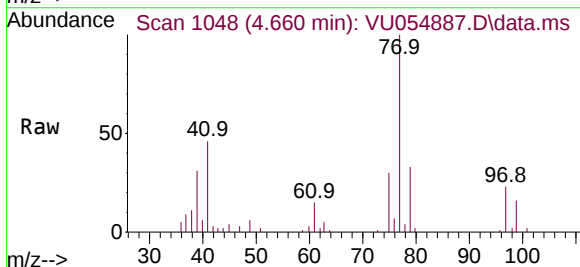
Instrument :
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 PT-UNRVOA-WS

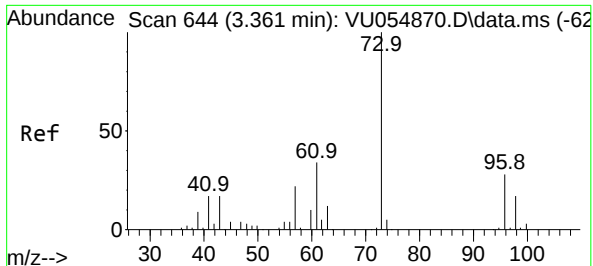
Tgt Ion: 63 Resp: 231814
 Ion Ratio Lower Upper
 63 100
 98 7.6 3.6 10.8
 100 4.1 2.8 8.4



#21
 2,2-Dichloropropane
 Concen: 4.306 ug/l
 RT: 4.660 min Scan# 1048
 Delta R.T. 0.000 min
 Lab File: VU054887.D
 Acq: 26 Jul 2023 19:46

Tgt Ion: 77 Resp: 44154
 Ion Ratio Lower Upper
 77 100
 97 21.5 18.0 27.0

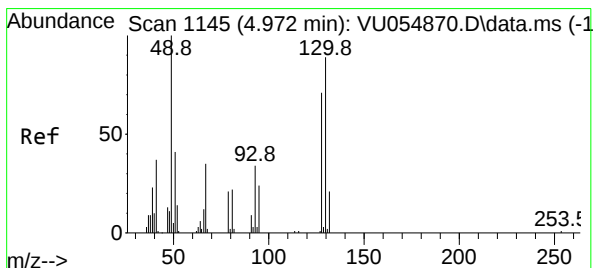
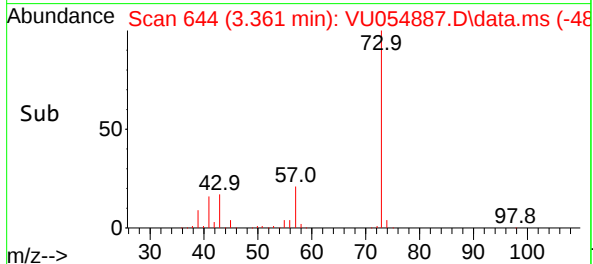
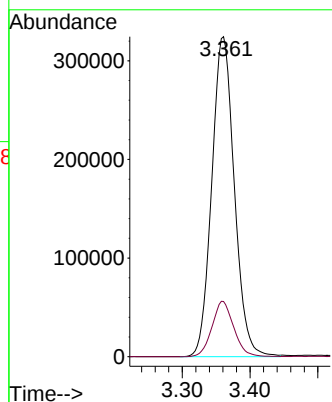
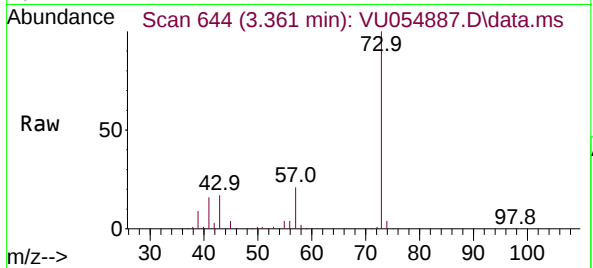




#25
Methyl tert-Butyl Ether
Concen: 53.336 ug/l
RT: 3.361 min Scan# 644
Delta R.T. 0.000 min
Lab File: VU054887.D
Acq: 26 Jul 2023 19:46

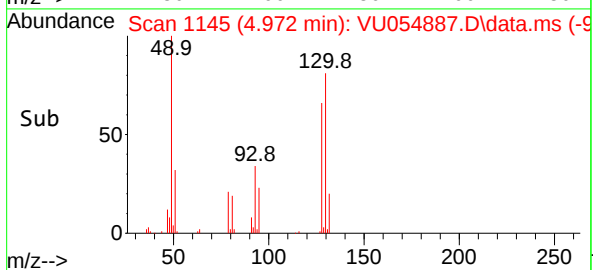
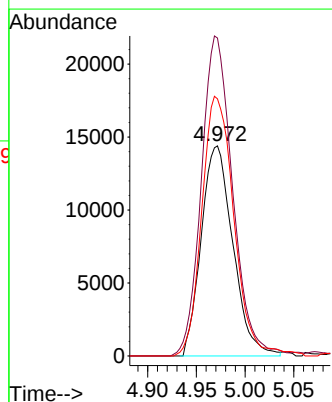
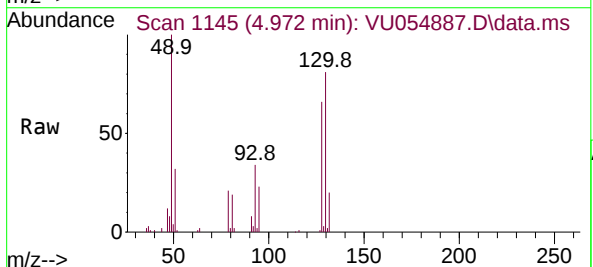
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ClientSampleId :
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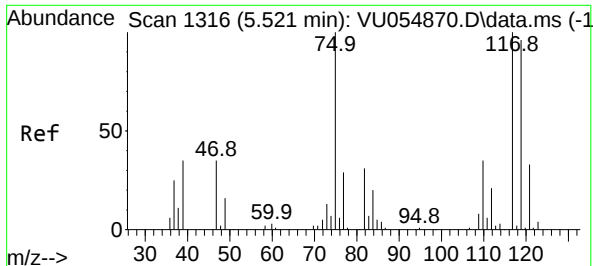
Tgt Ion: 73 Resp: 749836
Ion Ratio Lower Upper
73 100
43 16.8 14.6 22.0



#26
Bromochloromethane
Concen: 12.064 ug/l
RT: 4.972 min Scan# 1145
Delta R.T. 0.000 min
Lab File: VU054887.D
Acq: 26 Jul 2023 19:46

Tgt Ion: 128 Resp: 32520
Ion Ratio Lower Upper
128 100
49 150.6 0.0 304.0
130 125.8 104.3 156.5





#29

1,1-Dichloropropene

Concen: 21.114 ug/l

RT: 5.521 min Scan# 11

Delta R.T. 0.000 min

Lab File: VU054887.D

Acq: 26 Jul 2023 19:46

Instrument :

MSVOA_U

ClientSampleId :

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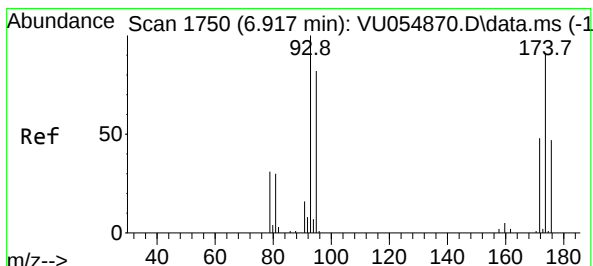
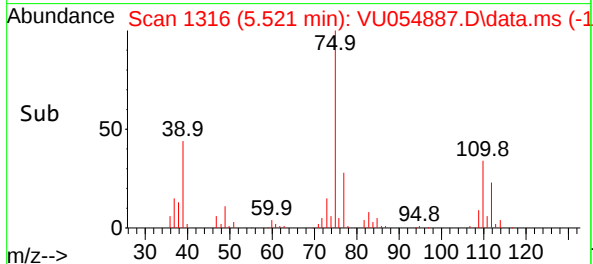
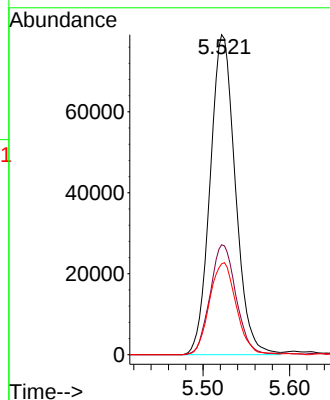
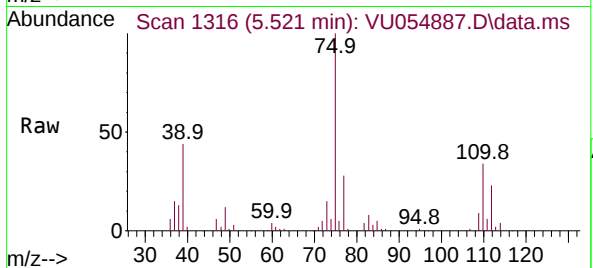
Tgt Ion: 75 Resp: 159806

Ion Ratio Lower Upper

75 100

110 35.4 18.5 55.5

77 30.6 24.9 37.3



#43

Dibromomethane

Concen: 8.740 ug/l

RT: 6.917 min Scan# 1750

Delta R.T. 0.000 min

Lab File: VU054887.D

Acq: 26 Jul 2023 19:46

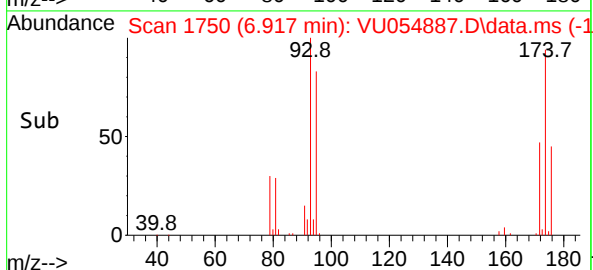
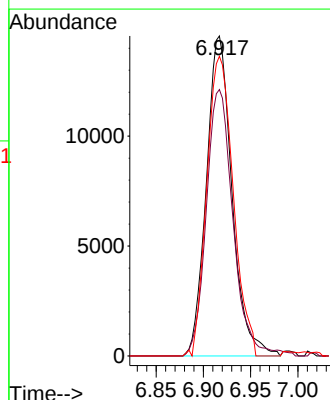
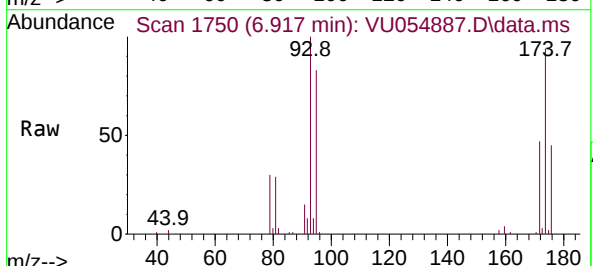
Tgt Ion: 93 Resp: 27504

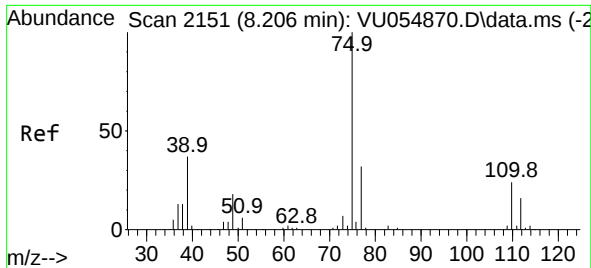
Ion Ratio Lower Upper

93 100

95 86.7 64.7 97.1

174 96.1 74.4 111.6

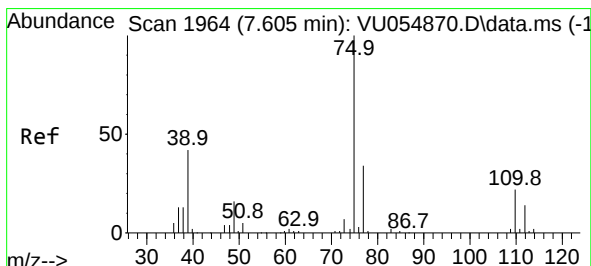
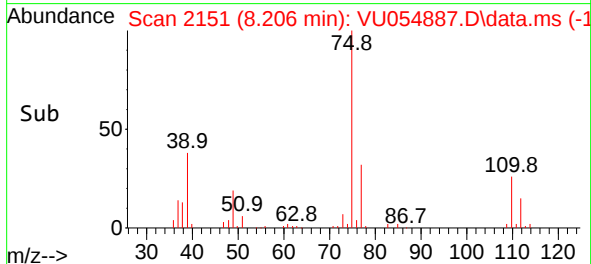
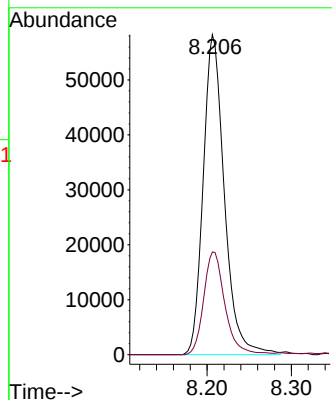
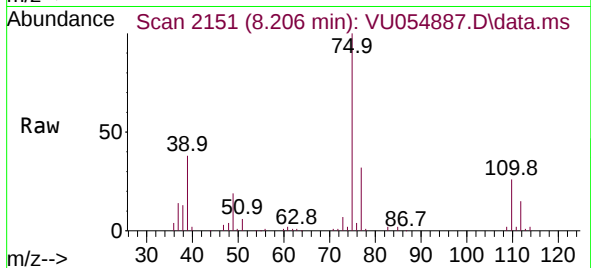




#50
 t-1,3-Dichloropropene
 Concen: 13.085 ug/l
 RT: 8.206 min Scan# 2151
 Delta R.T. 0.000 min
 Lab File: VU054887.D
 Acq: 26 Jul 2023 19:46

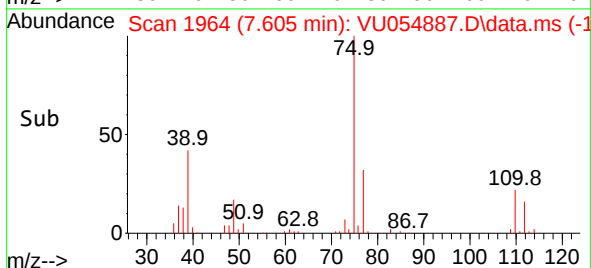
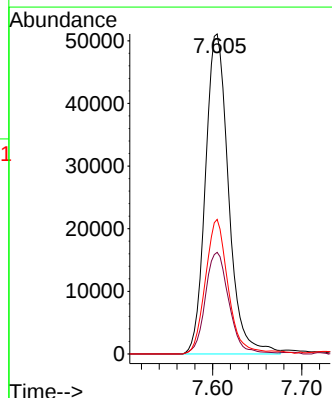
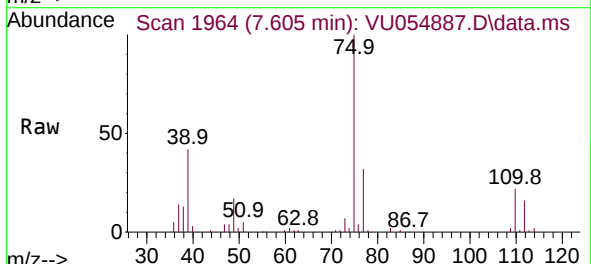
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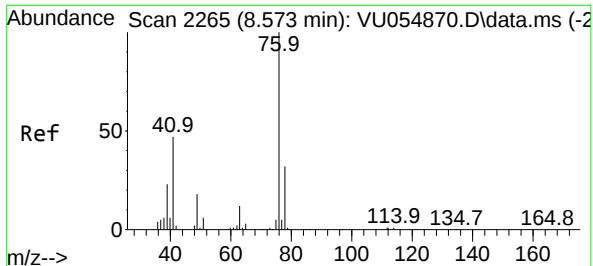
Tgt Ion: 75 Resp: 101859
 Ion Ratio Lower Upper
 75 100
 77 32.1 24.9 37.3



#51
 cis-1,3-Dichloropropene
 Concen: 9.651 ug/l
 RT: 7.605 min Scan# 1964
 Delta R.T. 0.000 min
 Lab File: VU054887.D
 Acq: 26 Jul 2023 19:46

Tgt Ion: 75 Resp: 92343
 Ion Ratio Lower Upper
 75 100
 77 31.8 25.8 38.8
 39 42.0 31.7 47.5





#53

1,3-Dichloropropane

Concen: 13.846 ug/l

RT: 8.573 min Scan# 211

Delta R.T. 0.000 min

Lab File: VU054887.D

Acq: 26 Jul 2023 19:46

Instrument :

MSVOA_U

ClientSampleId :

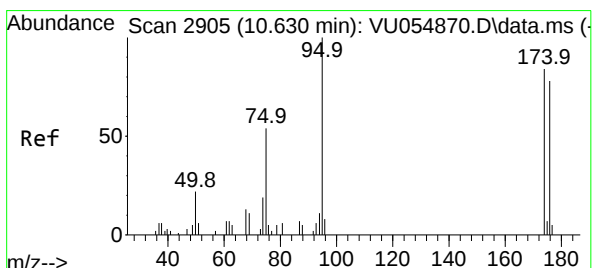
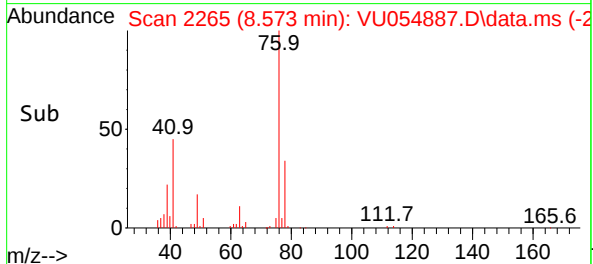
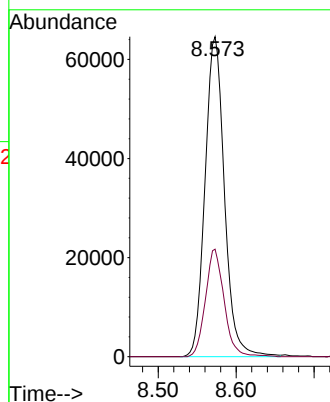
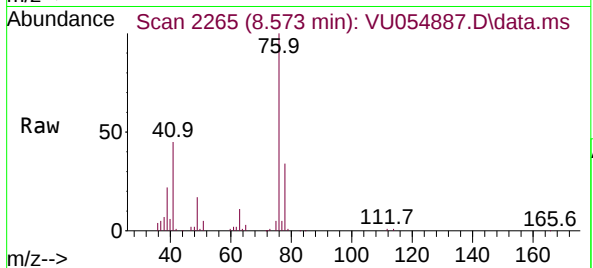
PT-UNRVOA-WS

Tgt Ion: 76 Resp: 111740

Ion Ratio Lower Upper

76 100

78 32.4 24.6 36.8



#57

4-Bromofluorobenzene

Concen: 1.036 ug/l

RT: 10.631 min Scan# 2905

Delta R.T. 0.000 min

Lab File: VU054887.D

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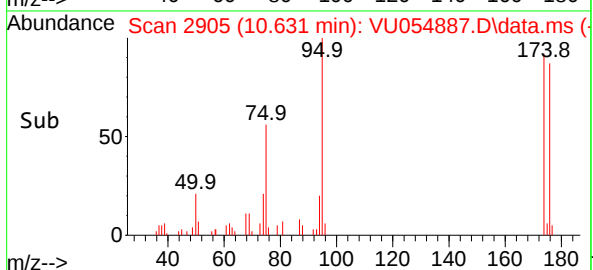
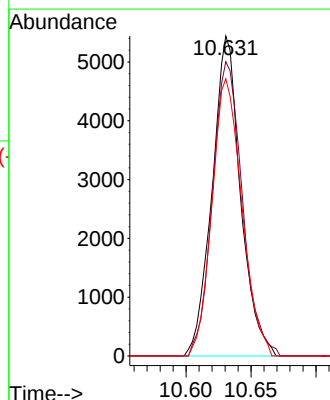
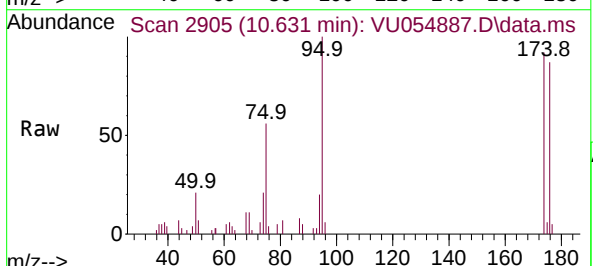
Tgt Ion: 95 Resp: 8264

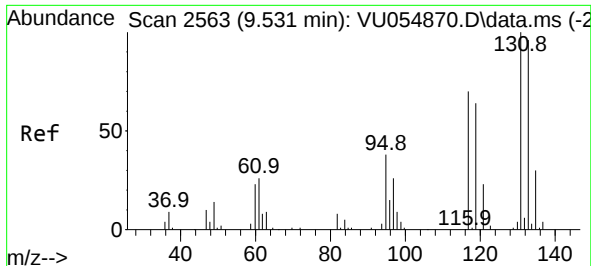
Ion Ratio Lower Upper

95 100

174 96.5 79.3 118.9

176 91.0 71.5 107.3

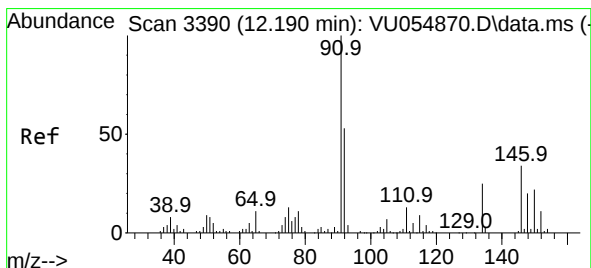
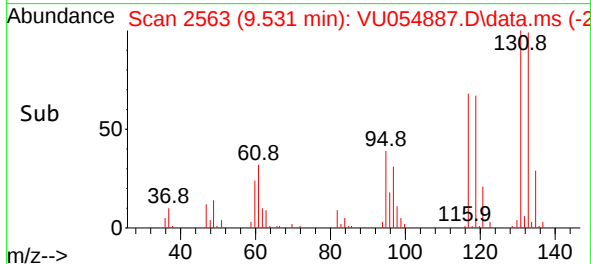
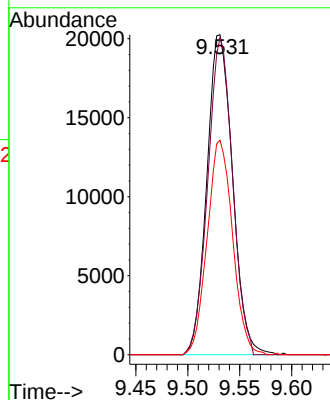
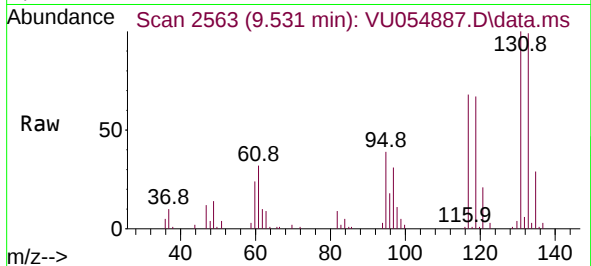




#60
1,1,1,2-Tetrachloroethane
Concen: 5.389 ug/l
RT: 9.531 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU054887.D
Acq: 26 Jul 2023 19:46

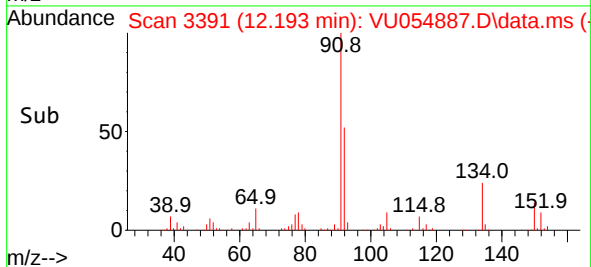
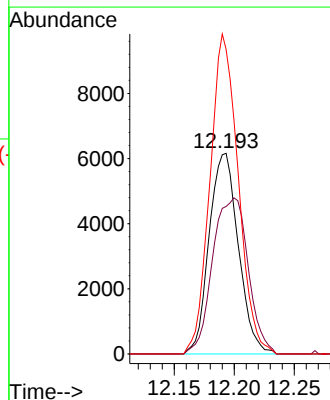
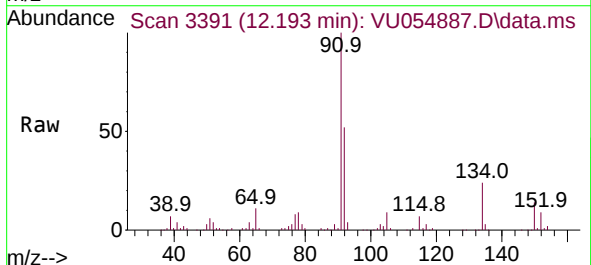
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

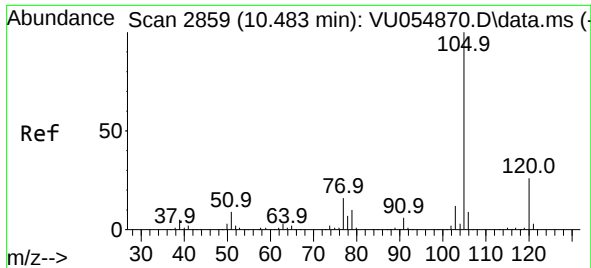
Tgt Ion:131 Resp: 34859
Ion Ratio Lower Upper
131 100
133 95.5 74.2 111.4
119 66.1 51.0 76.4



#68
1,2-Dichlorobenzene-d4
Concen: 1.156 ug/l
RT: 12.193 min Scan# 3391
Delta R.T. 0.003 min
Lab File: VU054887.D
Acq: 26 Jul 2023 19:46

Tgt Ion:152 Resp: 10426
Ion Ratio Lower Upper
152 100
115 94.6 0.0 234.8
150 154.3 0.0 598.2

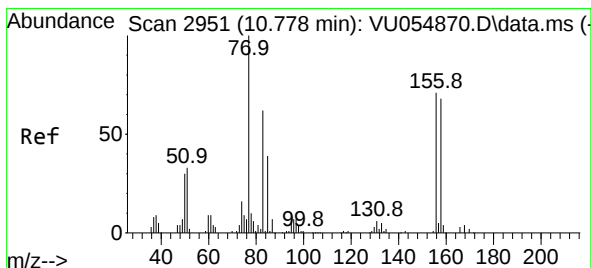
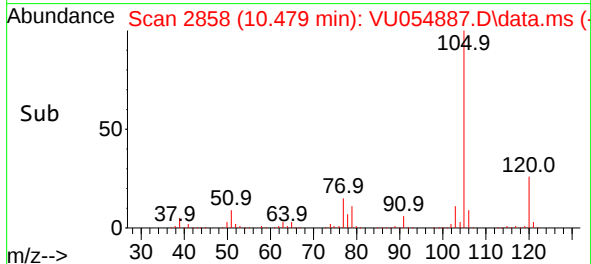
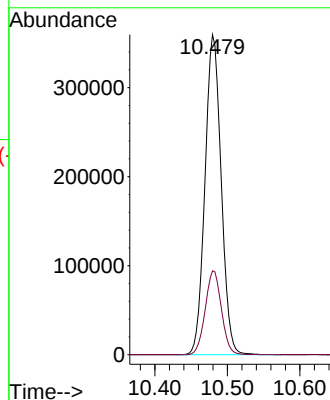
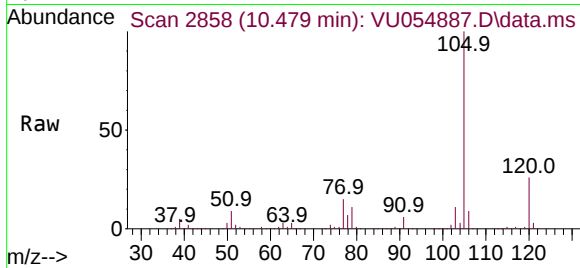




#69
Isopropylbenzene
Concen: 17.583 ug/l
RT: 10.479 min Scan# 2859
Delta R.T. -0.003 min
Lab File: VU054887.D
Acq: 26 Jul 2023 19:46

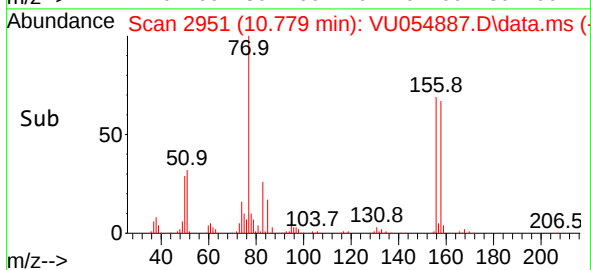
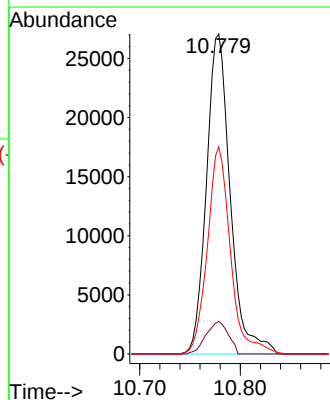
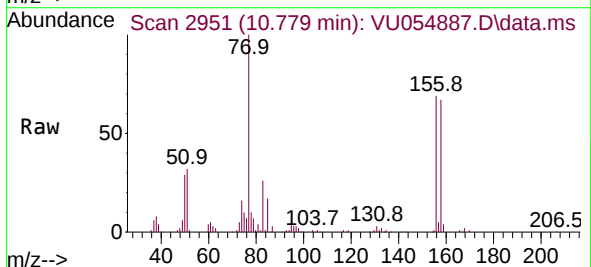
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

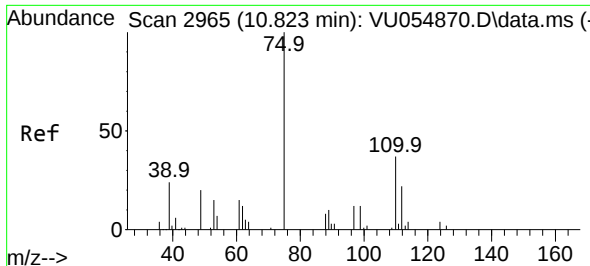
Tgt Ion:105 Resp: 557710
Ion Ratio Lower Upper
105 100
120 26.2 12.6 37.6



#70
1,1,2,2-Tetrachloroethane
Concen: 7.200 ug/l
RT: 10.779 min Scan# 2951
Delta R.T. 0.000 min
Lab File: VU054887.D
Acq: 26 Jul 2023 19:46

Tgt Ion: 83 Resp: 44460
Ion Ratio Lower Upper
83 100
131 9.5 7.5 11.3
85 62.8 53.0 79.6

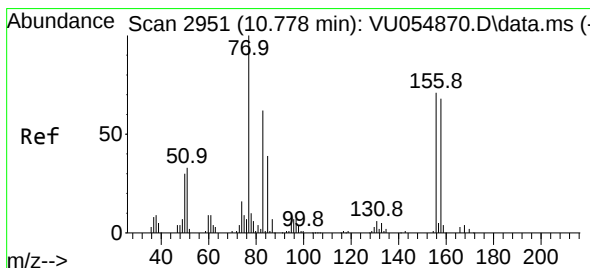
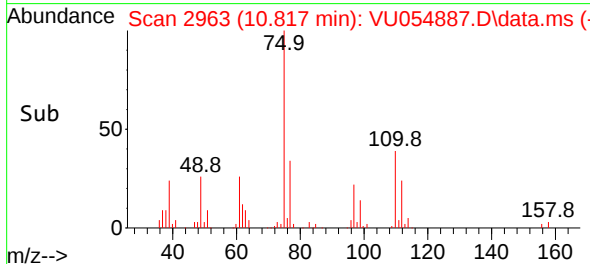
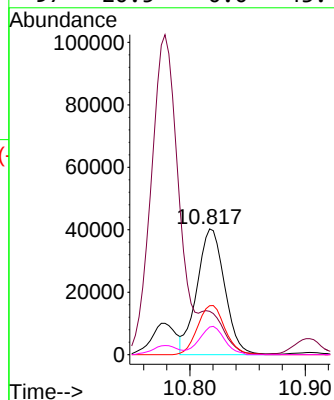
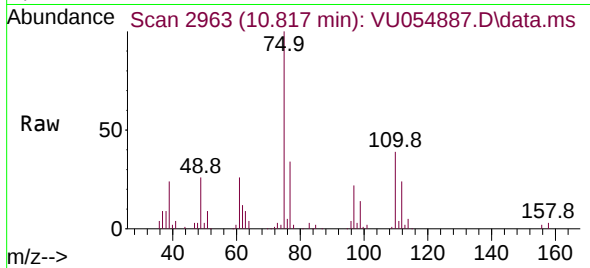




#71
1,2,3-Trichloropropane
Concen: 15.229 ug/l
RT: 10.817 min Scan# 2963
Delta R.T. -0.006 min
Lab File: VU054887.D
Acq: 26 Jul 2023 19:46

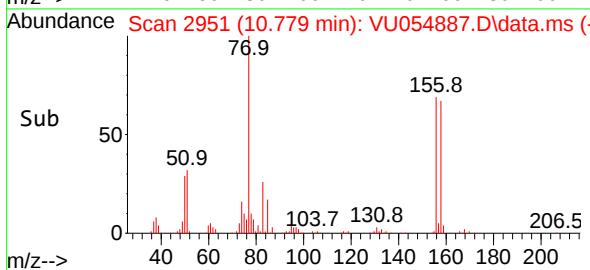
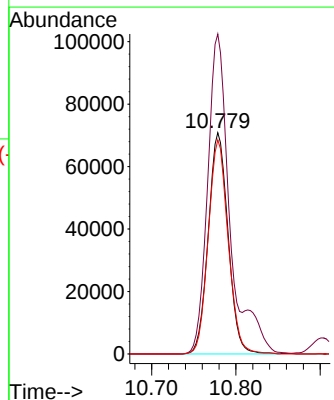
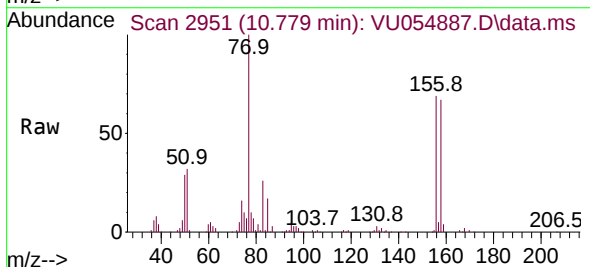
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

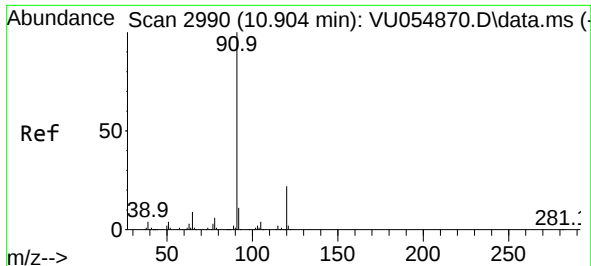
Tgt Ion: 75	Resp: 66984
Ion Ratio	Lower Upper
75 100	
77 0.0	0.0 0.0
110 38.8	0.0 80.8
97 20.5	0.0 43.4



#72
Bromobenzene
Concen: 16.394 ug/l
RT: 10.779 min Scan# 2951
Delta R.T. 0.000 min
Lab File: VU054887.D
Acq: 26 Jul 2023 19:46

Tgt Ion: 156	Resp: 115775
Ion Ratio	Lower Upper
156 100	
77 146.4	0.0 293.2
158 97.3	0.0 189.8

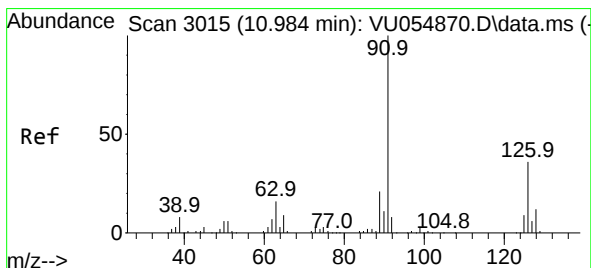
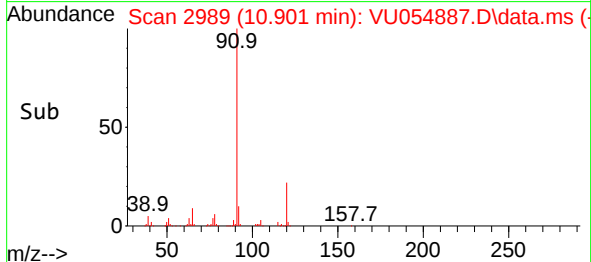
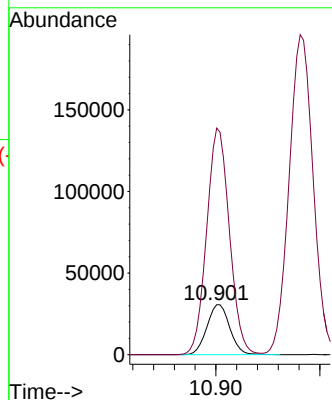
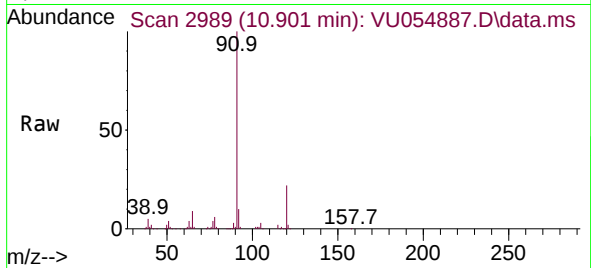




#73
n-propylbenzene
Concen: 5.498 ug/l
RT: 10.901 min Scan# 2990
Delta R.T. -0.003 min
Lab File: VU054887.D
Acq: 26 Jul 2023 19:46

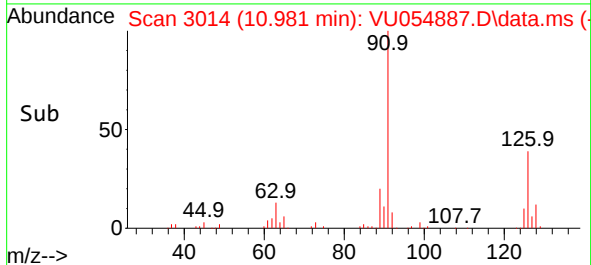
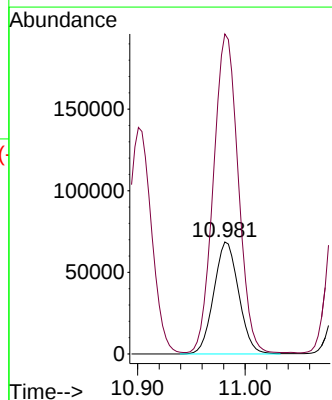
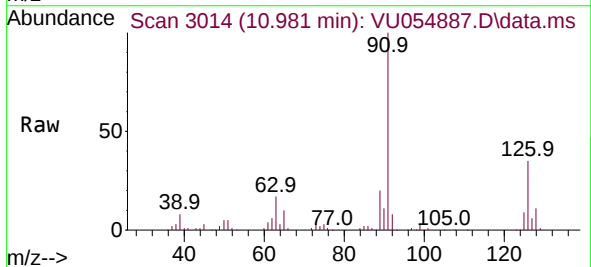
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

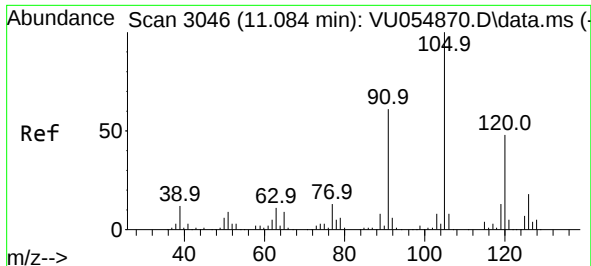
Tgt Ion:120 Resp: 46672
Ion Ratio Lower Upper
120 100
91 452.3 361.8 542.6



#74
2-Chlorotoluene
Concen: 14.975 ug/l
RT: 10.981 min Scan# 3014
Delta R.T. -0.003 min
Lab File: VU054887.D
Acq: 26 Jul 2023 19:46

Tgt Ion:126 Resp: 110049
Ion Ratio Lower Upper
126 100
91 283.8 0.0 561.4

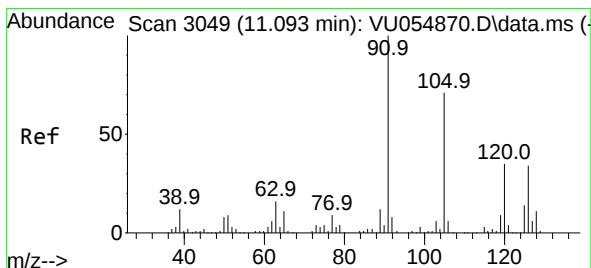
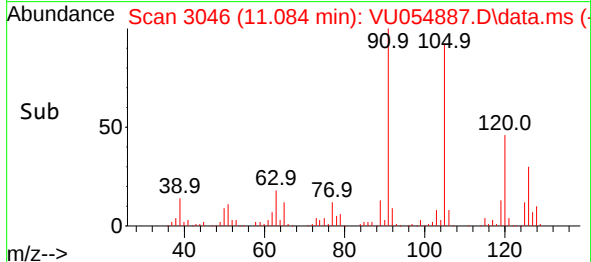
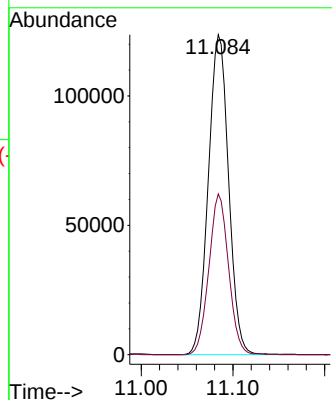
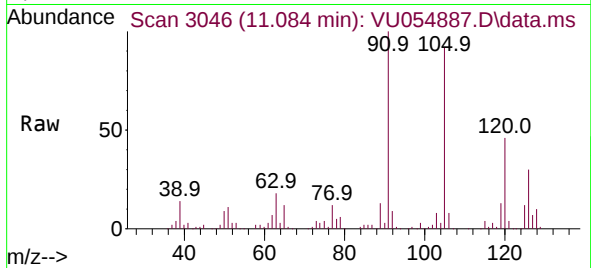




#75
1,3,5-Trimethylbenzene
Concen: 7.392 ug/l
RT: 11.084 min Scan# 3046
Delta R.T. 0.000 min
Lab File: VU054887.D
Acq: 26 Jul 2023 19:46

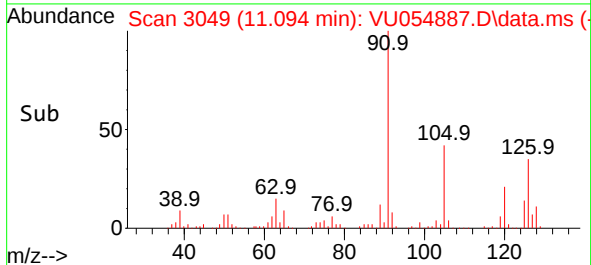
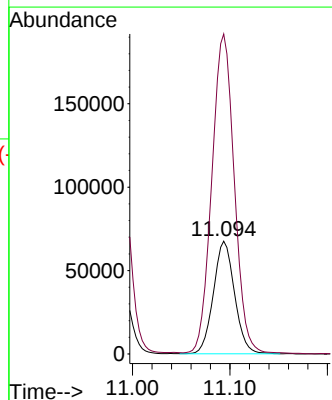
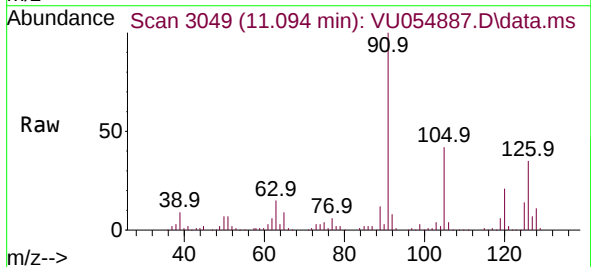
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

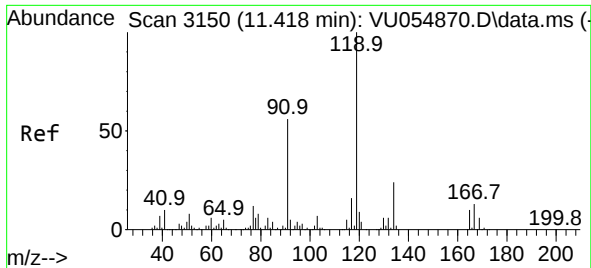
Tgt Ion:105 Resp: 189867
Ion Ratio Lower Upper
105 100
120 48.8 39.0 58.4



#76
4-Chlorotoluene
Concen: 13.348 ug/l
RT: 11.094 min Scan# 3049
Delta R.T. 0.000 min
Lab File: VU054887.D
Acq: 26 Jul 2023 19:46

Tgt Ion:126 Resp: 101909
Ion Ratio Lower Upper
126 100
91 301.9 0.0 623.4

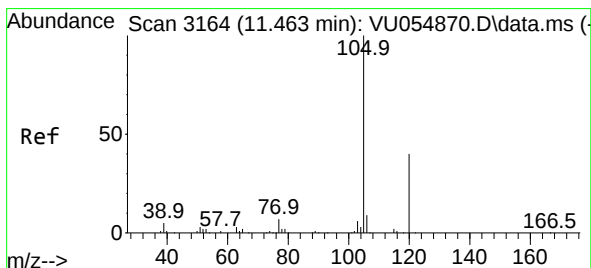
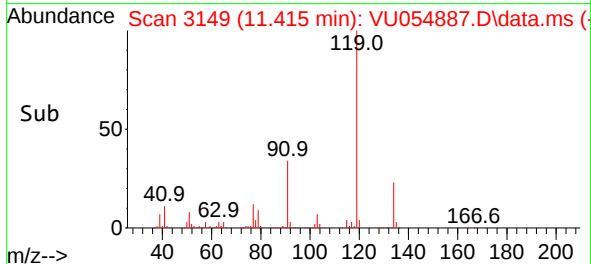
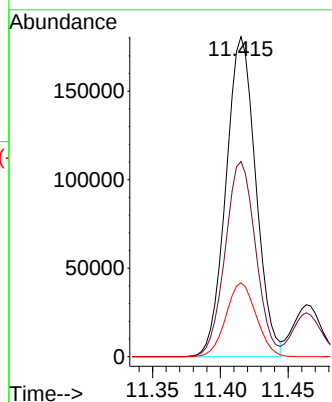
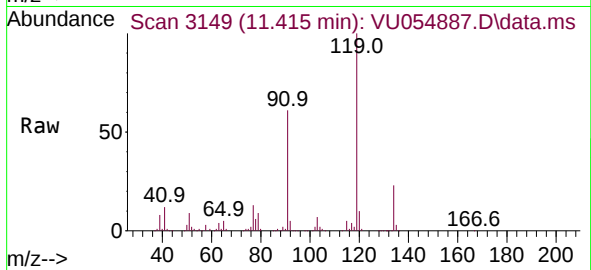




#77
tert-Butylbenzene
Concen: 10.361 ug/l
RT: 11.415 min Scan# 3150
Delta R.T. -0.003 min
Lab File: VU054887.D
Acq: 26 Jul 2023 19:46

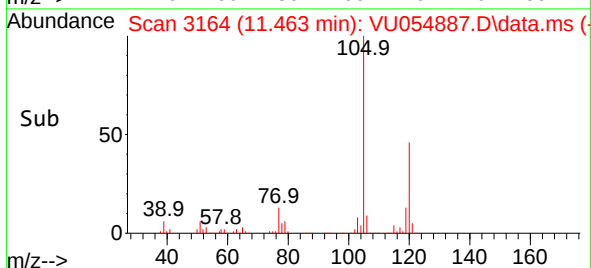
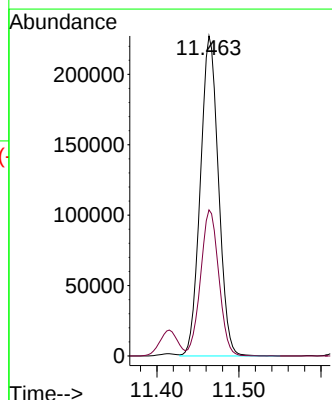
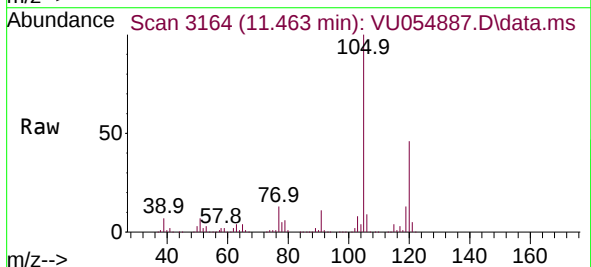
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

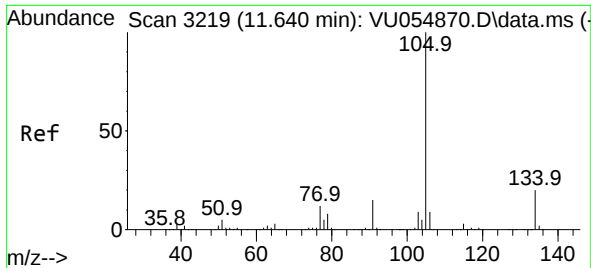
Tgt Ion:119 Resp: 276770
Ion Ratio Lower Upper
119 100
91 62.5 27.7 83.1
134 23.4 18.6 27.8



#78
1,2,4-Trimethylbenzene
Concen: 13.234 ug/l
RT: 11.463 min Scan# 3164
Delta R.T. 0.000 min
Lab File: VU054887.D
Acq: 26 Jul 2023 19:46

Tgt Ion:105 Resp: 348009
Ion Ratio Lower Upper
105 100
120 45.9 22.4 67.3

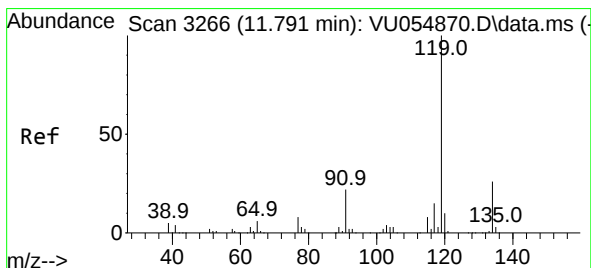
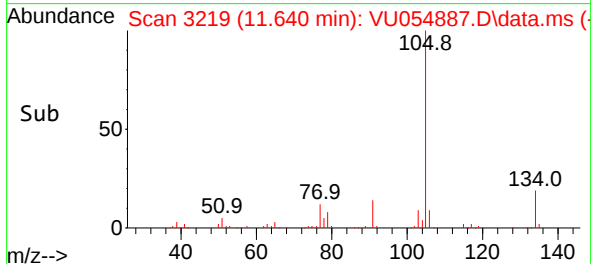
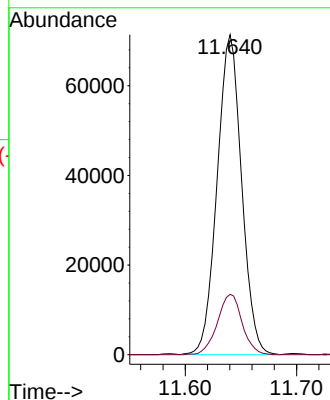
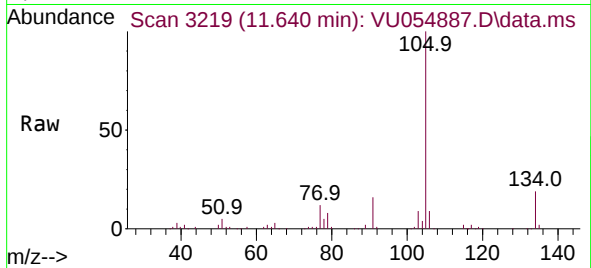




#79
 sec-Butylbenzene
 Concen: 3.137 ug/l
 RT: 11.640 min Scan# 3219
 Delta R.T. 0.000 min
 Lab File: VU054887.D
 Acq: 26 Jul 2023 19:46

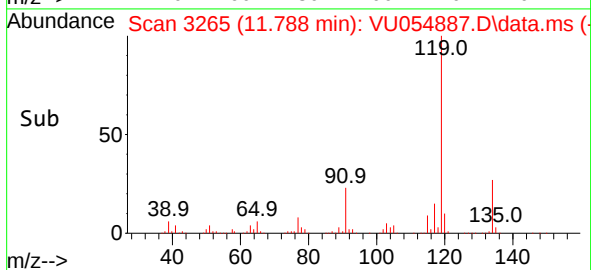
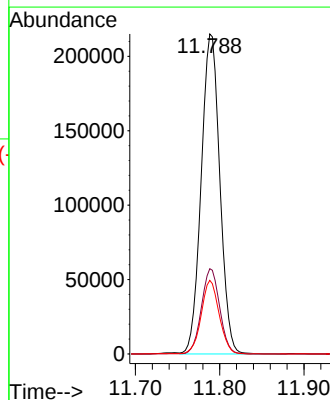
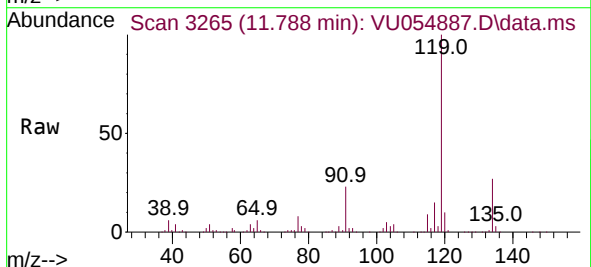
Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WS

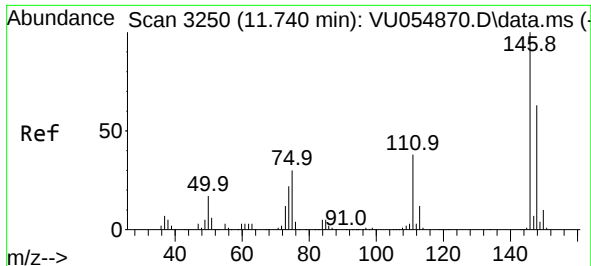
Tgt Ion:105 Resp: 108921
 Ion Ratio Lower Upper
 105 100
 134 19.1 15.7 23.5



#81
 p-Isopropyltoluene
 Concen: 12.077 ug/l
 RT: 11.788 min Scan# 3265
 Delta R.T. -0.003 min
 Lab File: VU054887.D
 Acq: 26 Jul 2023 19:46

Tgt Ion:119 Resp: 330988
 Ion Ratio Lower Upper
 119 100
 134 26.0 20.6 31.0
 91 22.2 18.2 27.4





#82

1,3-Dichlorobenzene

Concen: 20.310 ug/l

RT: 11.743 min Scan# 31

Delta R.T. 0.003 min

Lab File: VU054887.D

Acq: 26 Jul 2023 19:46

Instrument :

MSVOA_U

ClientSampleId :

PT-UNRVOA-WS

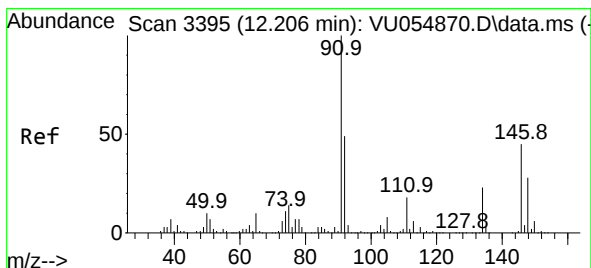
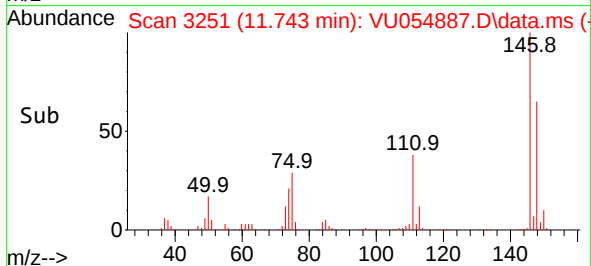
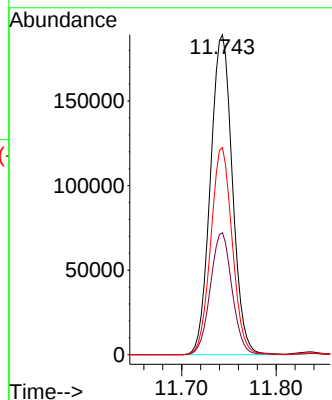
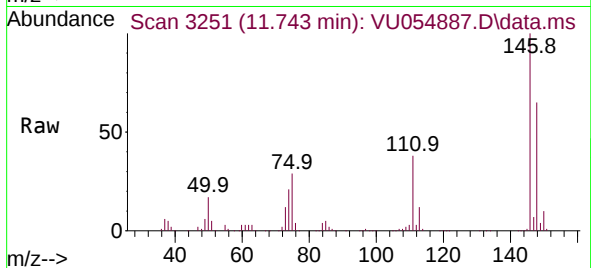
Tgt Ion:146 Resp: 305360

Ion Ratio Lower Upper

146 100

111 37.8 30.5 45.7

148 63.6 51.0 76.6



#84

n-Butylbenzene

Concen: 8.438 ug/l

RT: 12.206 min Scan# 3395

Delta R.T. 0.000 min

Lab File: VU054887.D

Acq: 26 Jul 2023 19:46

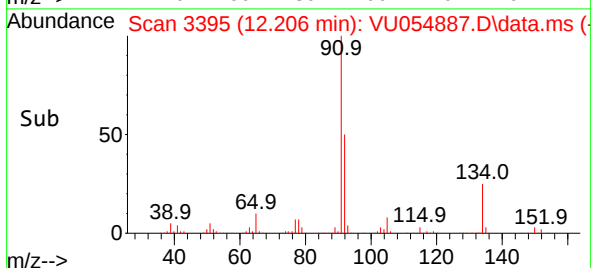
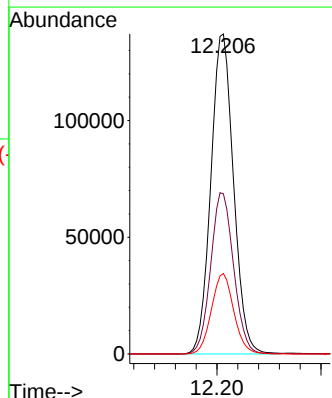
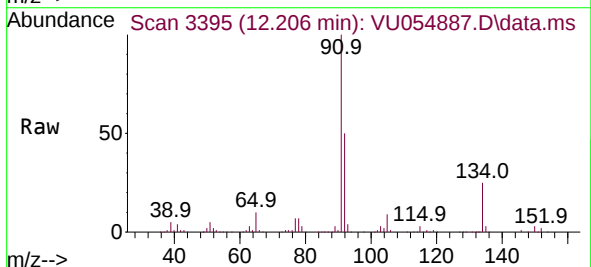
Tgt Ion: 91 Resp: 207722

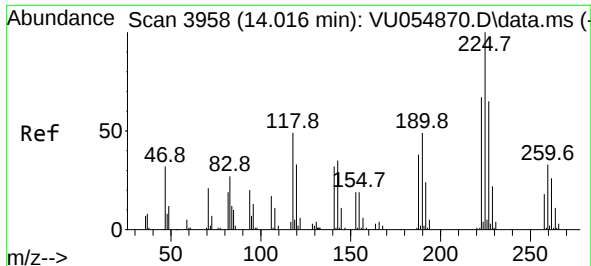
Ion Ratio Lower Upper

91 100

92 51.1 39.8 59.8

134 24.8 20.2 30.4

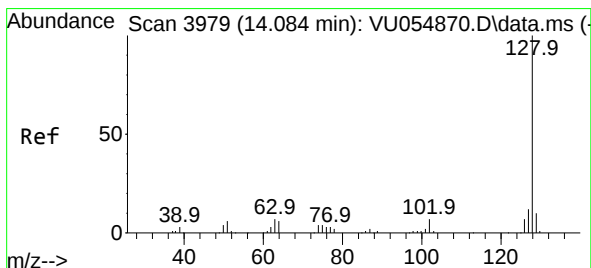
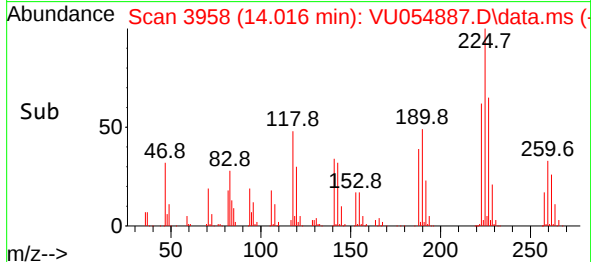
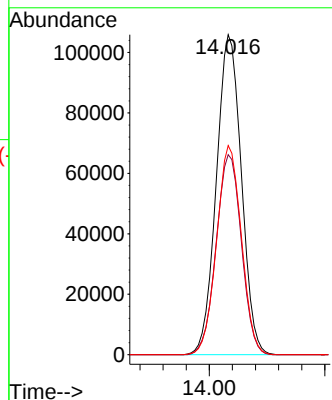
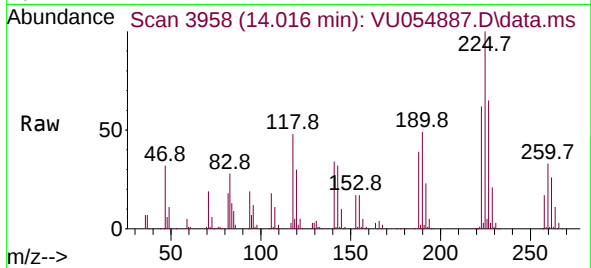




#88
Hexachlorobutadiene
Concen: 32.472 ug/l
RT: 14.016 min Scan# 3958
Delta R.T. 0.000 min
Lab File: VU054887.D
Acq: 26 Jul 2023 19:46

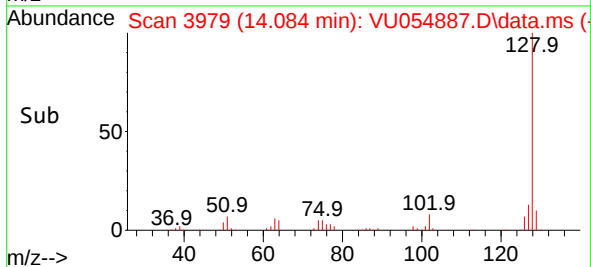
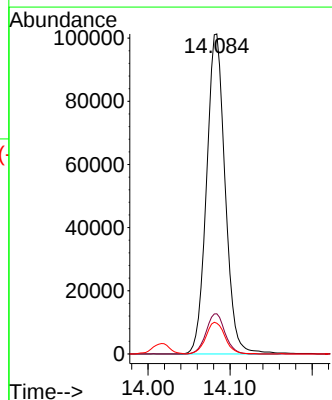
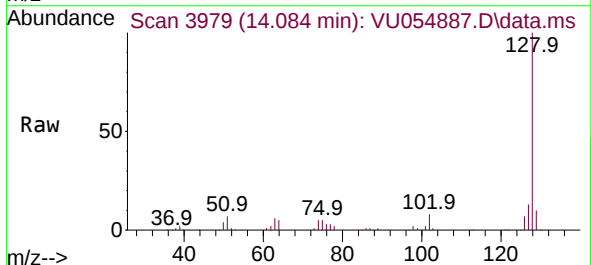
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

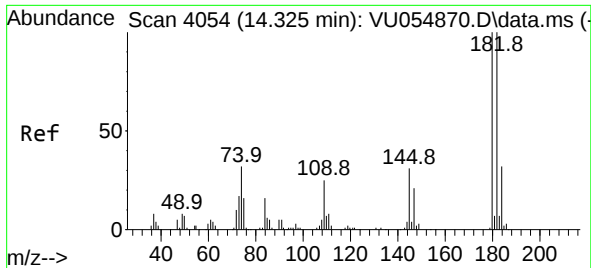
Tgt Ion:225 Resp: 159193
Ion Ratio Lower Upper
225 100
223 63.1 50.6 76.0
227 64.7 50.7 76.1



#89
Naphthalene
Concen: 11.239 ug/l
RT: 14.084 min Scan# 3979
Delta R.T. 0.000 min
Lab File: VU054887.D
Acq: 26 Jul 2023 19:46

Tgt Ion:128 Resp: 159979
Ion Ratio Lower Upper
128 100
127 12.8 10.6 15.8
129 10.3 8.7 13.1





#90
 1,2,3-Trichlorobenzene
 Concen: 34.292 ug/l
 RT: 14.325 min Scan# 4054
 Delta R.T. 0.000 min
 Lab File: VU054887.D
 Acq: 26 Jul 2023 19:46

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WS

Tgt Ion:180 Resp: 279675
 Ion Ratio Lower Upper
 180 100
 182 97.3 76.0 114.0
 145 31.0 24.3 36.5

