

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU021422\
 Data File : VU047140.D
 Acq On : 14 Feb 2022 18:54
 Operator : SY/MD
 Sample : N1205-08
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WS

Quant Time: Feb 15 03:53:12 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U021422DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Tue Feb 15 03:17:28 2022
 Response via : Initial Calibration

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

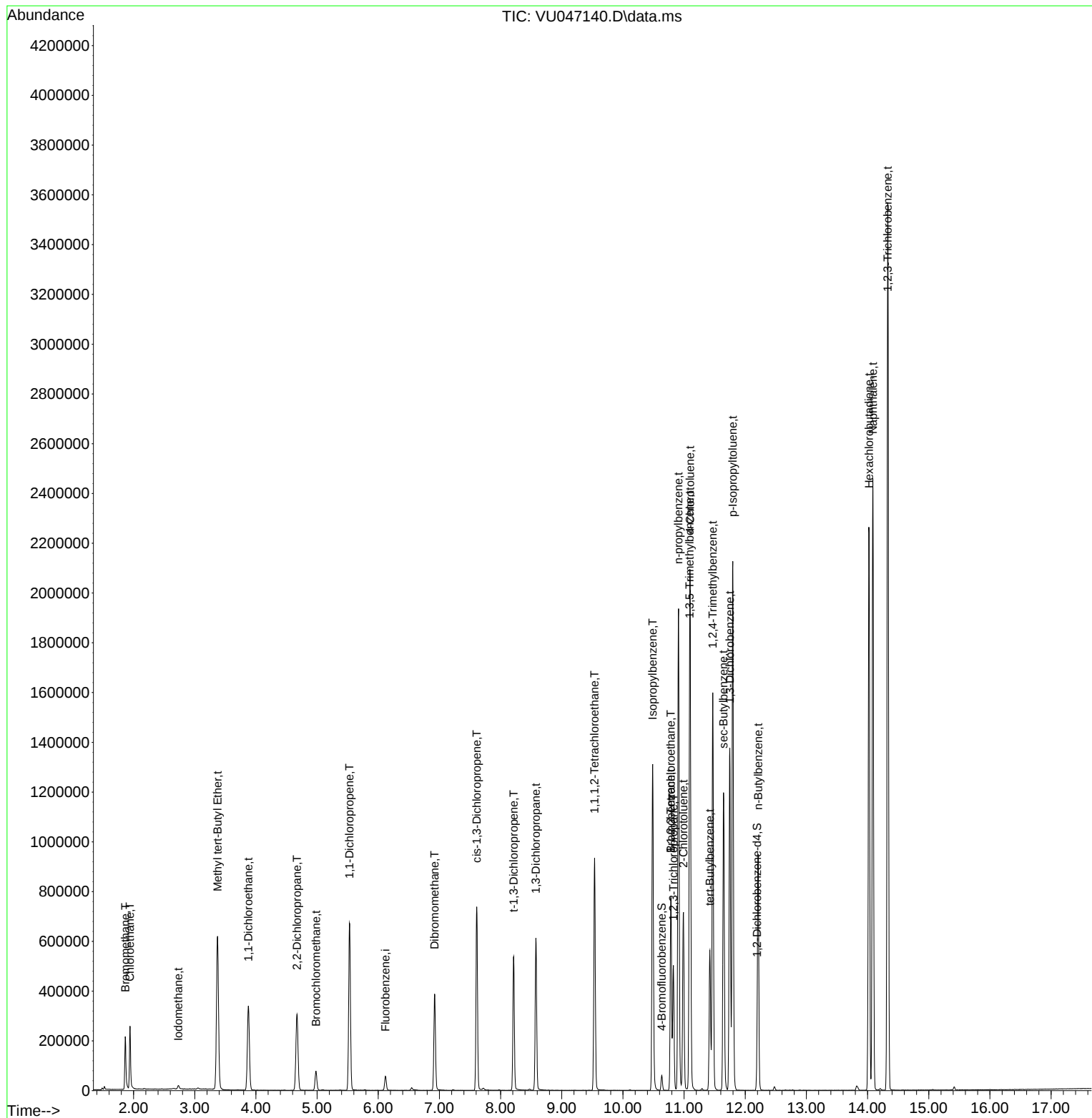
Internal Standards						
1) Fluorobenzene	6.118	96	54166	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.635	95	20227	0.964	ug/l	0.00
Spiked Amount 1.000			Recovery	=	96.000%	
68) 1,2-Dichlorobenzene-d4	12.195	152	21397	0.979	ug/l	0.00
Spiked Amount 1.000			Recovery	=	98.000%	
Target Compounds						
					Qvalue	
5) Bromomethane	1.864	94	108380	9.060	ug/l	99
6) Chloroethane	1.941	64	175493	16.682	ug/l	100
10) Iodomethane	2.732	142	16006	1.856	ug/l	99
17) 1,1-Dichloroethane	3.877	63	391832	15.827	ug/l	98
21) 2,2-Dichloropropane	4.671	77	236988	10.711	ug/l	98
25) Methyl tert-Butyl Ether	3.372	73	708037	19.720	ug/l	100
26) Bromochloromethane	4.983	128	25578	3.660	ug/l	88
29) 1,1-Dichloropropene	5.529	75	359537	18.059	ug/l	99
43) Dibromomethane	6.922	93	148120	18.603	ug/l	91
50) t-1,3-Dichloropropene	8.214	75	295008	14.473	ug/l	99
51) cis-1,3-Dichloropropene	7.610	75	420259	18.392	ug/l	98
53) 1,3-Dichloropropane	8.578	76	359250	17.700	ug/l	100
60) 1,1,1,2-Tetrachloroethane	9.536	131	260113	18.861	ug/l	99
69) Isopropylbenzene	10.487	105	914177	13.051	ug/l	98
70) 1,1,2,2-Tetrachloroethane	10.783	83	280694	18.276	ug/l	99
71) 1,2,3-Trichloropropane	10.825	75	208941	16.119	ug/l	85
72) Bromobenzene	10.783	156	63059	3.686	ug/l	88
73) n-propylbenzene	10.909	120	365330	18.945	ug/l	87
74) 2-Chlorotoluene	10.989	126	141876	8.630	ug/l	91
75) 1,3,5-Trimethylbenzene	11.089	105	448112	7.801	ug/l	99
76) 4-Chlorotoluene	11.098	126	301187	17.438	ug/l	75
77) tert-Butylbenzene	11.423	119	286504	4.970	ug/l	97
78) 1,2,4-Trimethylbenzene	11.468	105	879070	14.995	ug/l	97
79) sec-Butylbenzene	11.645	105	864332	11.292	ug/l	98
81) p-Isopropyltoluene	11.796	119	1240642	19.155	ug/l	97
82) 1,3-Dichlorobenzene	11.748	146	572507	17.190	ug/l	98
84) n-Butylbenzene	12.211	91	515795	8.293	ug/l	97
88) Hexachlorobutadiene	14.024	225	427324	33.206	ug/l	98
89) Naphthalene	14.085	128	1917802	37.197	ug/l	99
90) 1,2,3-Trichlorobenzene	14.330	180	1088438	48.209	ug/l	97

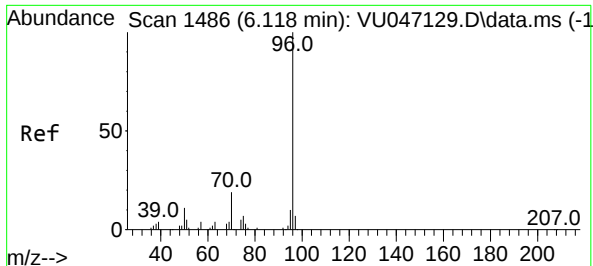
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Tue Feb 15 03:17:28 2022
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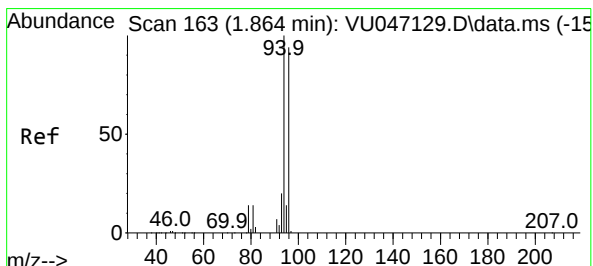
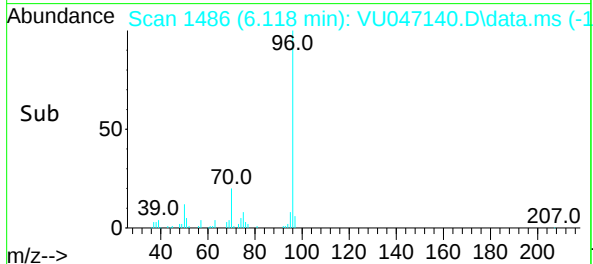
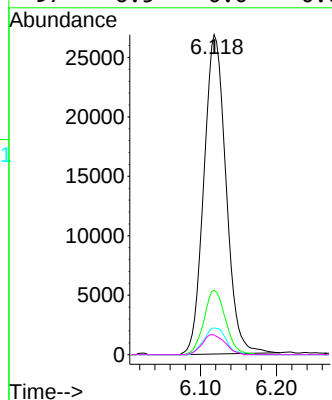
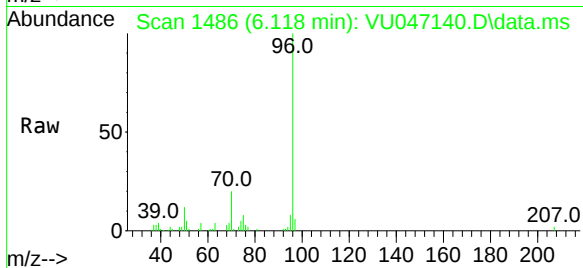




#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.118 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VU047140.D
Acq: 14 Feb 2022 18:54

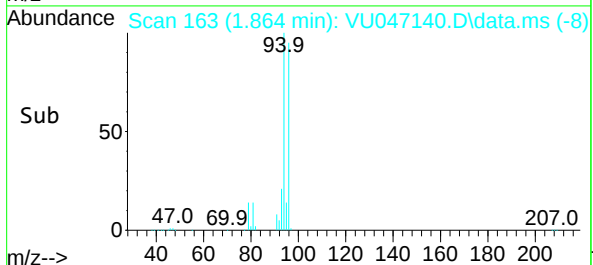
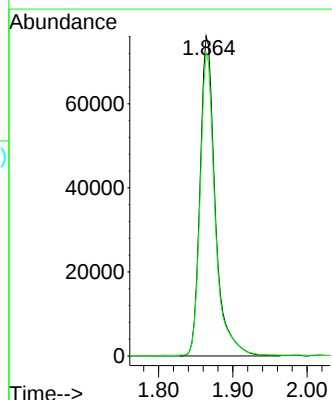
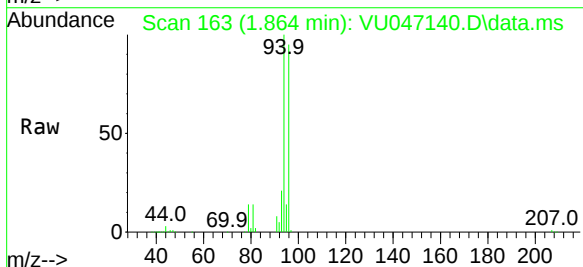
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

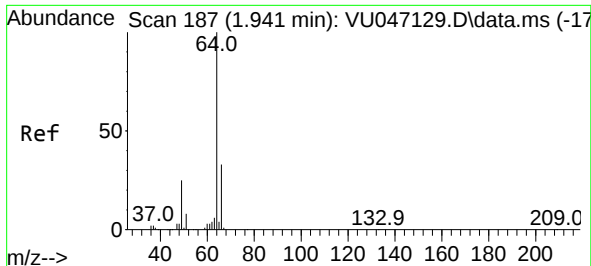
Tgt Ion: 96	Resp: 54166
Ion Ratio	Lower Upper
96 100	
70 19.8	16.8 25.2
95 8.5	7.3 10.9
97 6.5	0.0 0.0



#5
Bromomethane
Concen: 9.060 ug/l
RT: 1.864 min Scan# 163
Delta R.T. -0.000 min
Lab File: VU047140.D
Acq: 14 Feb 2022 18:54

Tgt Ion: 94	Resp: 108380
Ion Ratio	Lower Upper
94 100	
96 94.4	75.0 112.4

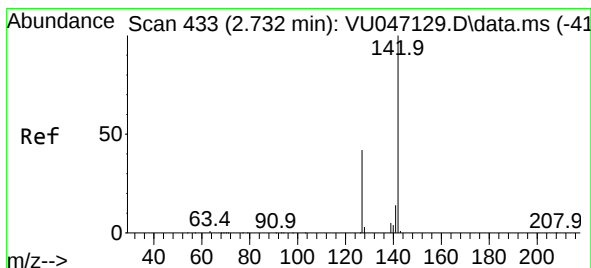
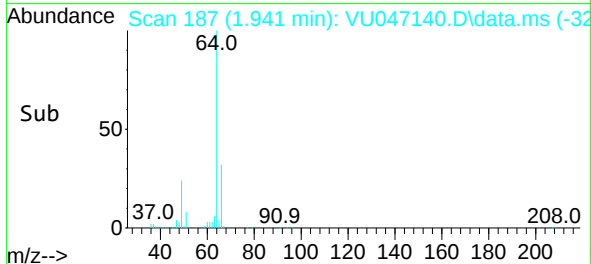
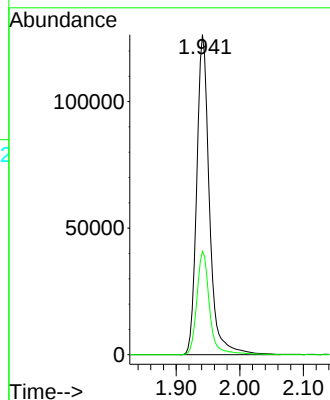
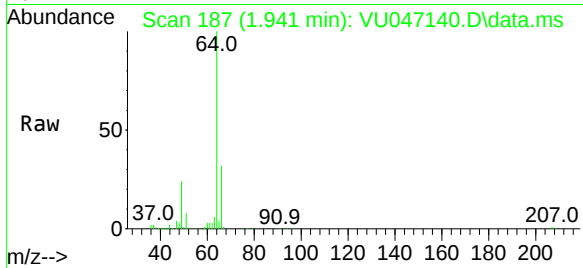




#6
Chloroethane
Concen: 16.682 ug/l
RT: 1.941 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU047140.D
Acq: 14 Feb 2022 18:54

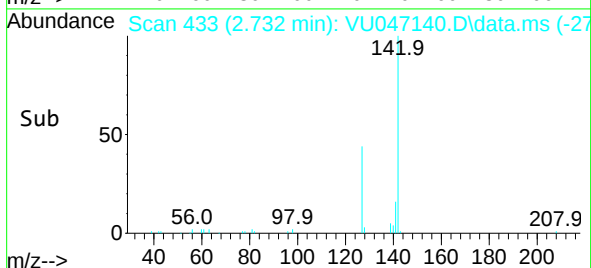
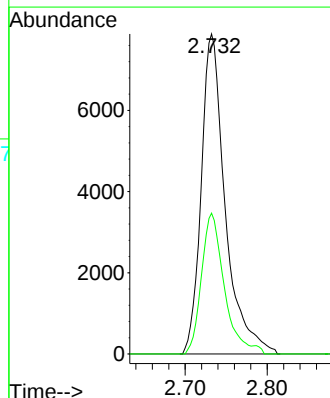
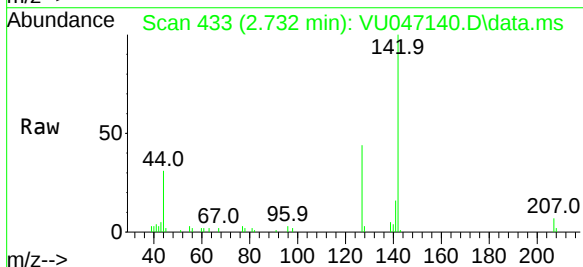
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

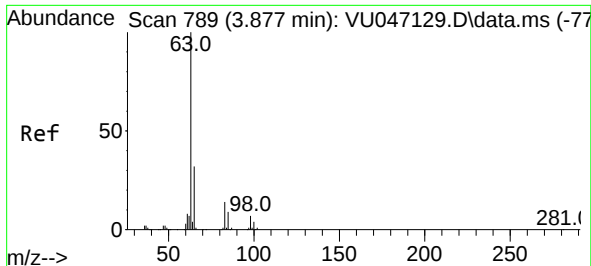
Tgt Ion: 64 Resp: 175493
Ion Ratio Lower Upper
64 100
66 32.3 25.8 38.8



#10
Iodomethane
Concen: 1.856 ug/l
RT: 2.732 min Scan# 433
Delta R.T. 0.000 min
Lab File: VU047140.D
Acq: 14 Feb 2022 18:54

Tgt Ion: 142 Resp: 16006
Ion Ratio Lower Upper
142 100
127 42.0 33.2 49.8

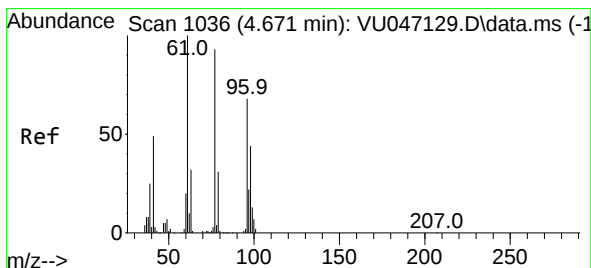
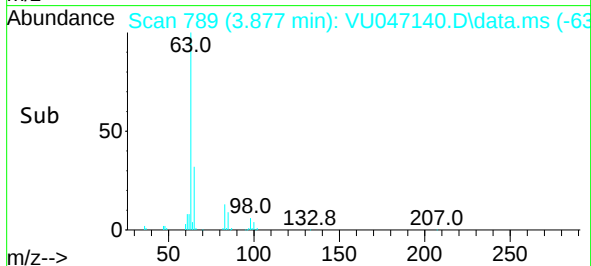
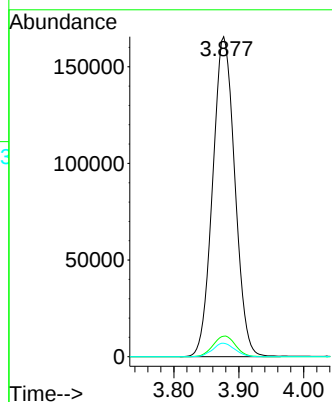
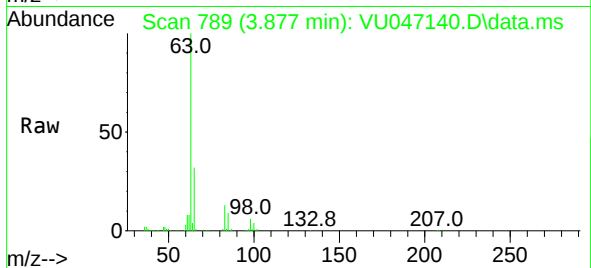




#17
 1,1-Dichloroethane
 Concen: 15.827 ug/l
 RT: 3.877 min Scan# 789
 Delta R.T. -0.000 min
 Lab File: VU047140.D
 Acq: 14 Feb 2022 18:54

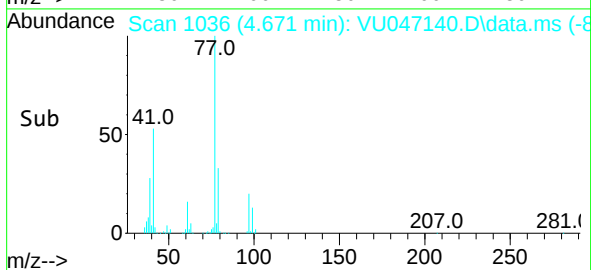
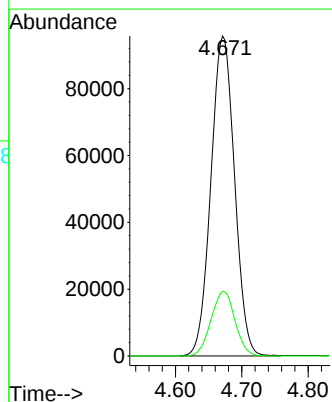
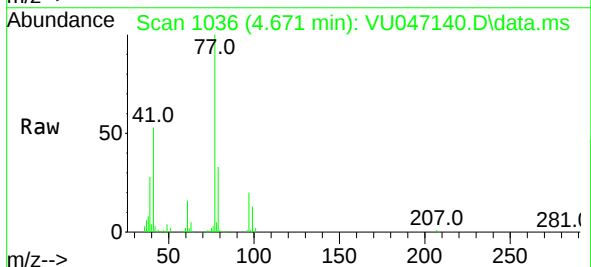
Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WS

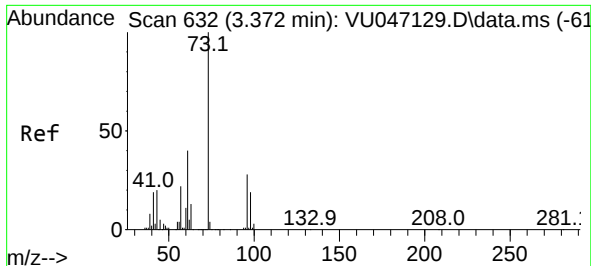
Tgt Ion: 63 Resp: 391832
 Ion Ratio Lower Upper
 63 100
 98 6.4 3.6 10.8
 100 4.2 2.1 6.5



#21
 2,2-Dichloropropane
 Concen: 10.711 ug/l
 RT: 4.671 min Scan# 1036
 Delta R.T. -0.000 min
 Lab File: VU047140.D
 Acq: 14 Feb 2022 18:54

Tgt Ion: 77 Resp: 236988
 Ion Ratio Lower Upper
 77 100
 97 20.5 17.2 25.8

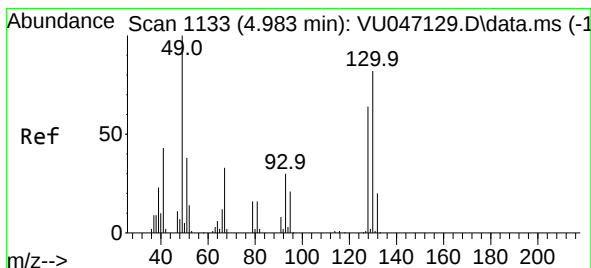
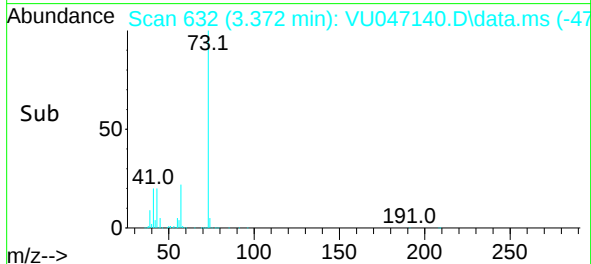
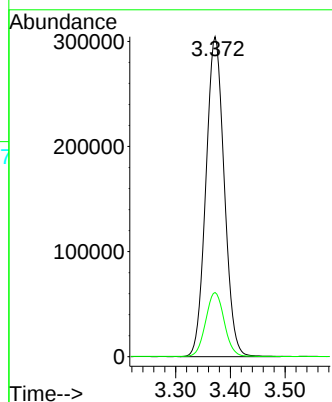
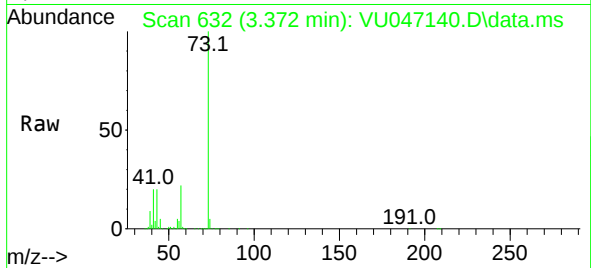




#25
Methyl tert-Butyl Ether
Concen: 19.720 ug/l
RT: 3.372 min Scan# 61
Delta R.T. -0.000 min
Lab File: VU047140.D
Acq: 14 Feb 2022 18:54

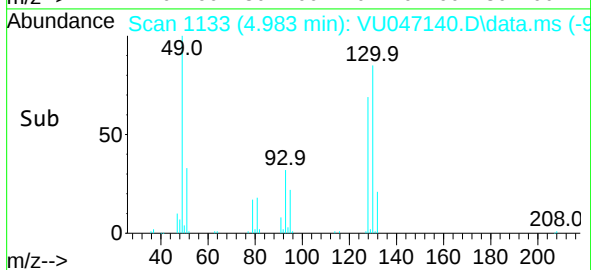
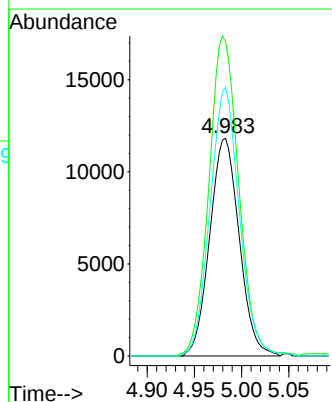
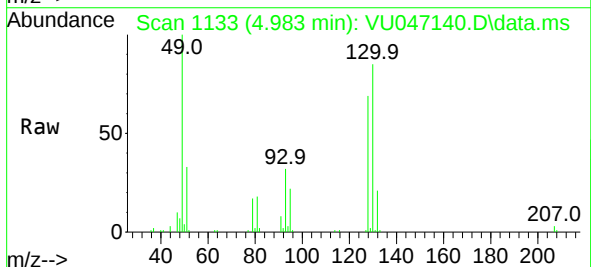
Instrument :
MSVOA_U
ClientSampleId :
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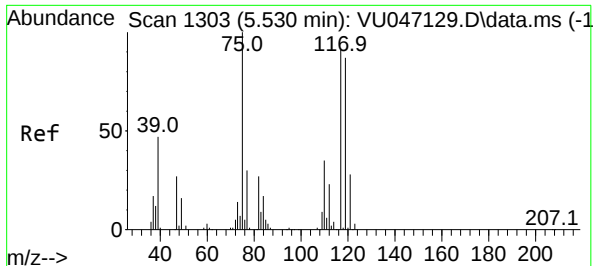
Tgt Ion: 73 Resp: 708037
Ion Ratio Lower Upper
73 100
43 20.2 16.3 24.5



#26
Bromochloromethane
Concen: 3.660 ug/l
RT: 4.983 min Scan# 1133
Delta R.T. -0.000 min
Lab File: VU047140.D
Acq: 14 Feb 2022 18:54

Tgt Ion: 128 Resp: 25578
Ion Ratio Lower Upper
128 100
49 148.8 0.0 347.4
130 123.0 101.5 152.3





#29

1,1-Dichloropropene

Concen: 18.059 ug/l

RT: 5.529 min Scan# 1

Delta R.T. -0.000 min

Lab File: VU047140.D

Acq: 14 Feb 2022 18:54

Instrument :

MSVOA_U

ClientSampleId :

PT-UNRVOA-WS

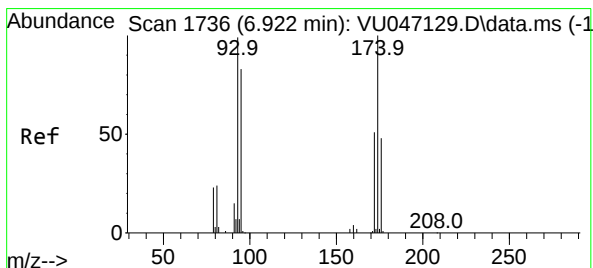
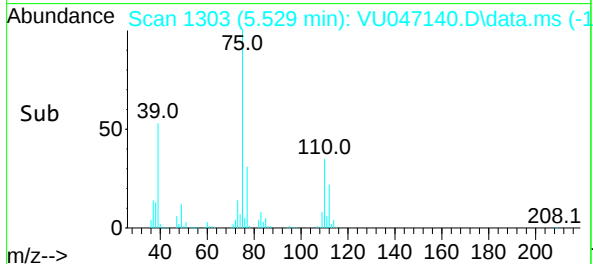
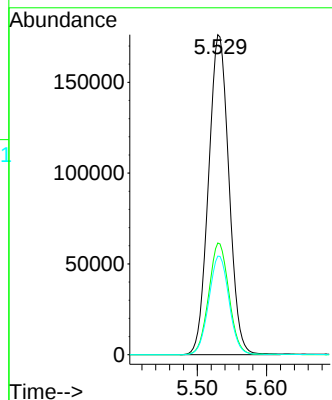
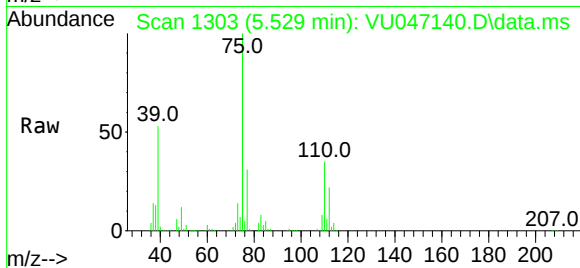
Tgt Ion: 75 Resp: 359537

Ion Ratio Lower Upper

75 100

110 34.7 16.8 50.3

77 30.7 24.7 37.1



#43

Dibromomethane

Concen: 18.603 ug/l

RT: 6.922 min Scan# 1736

Delta R.T. -0.000 min

Lab File: VU047140.D

Acq: 14 Feb 2022 18:54

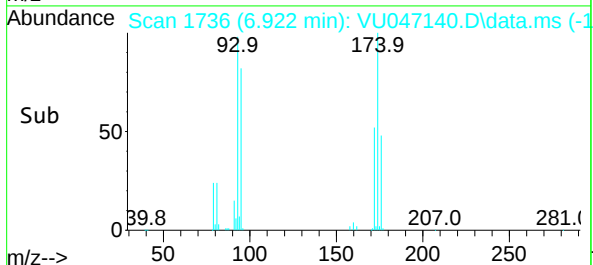
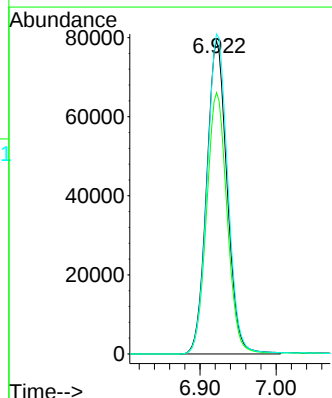
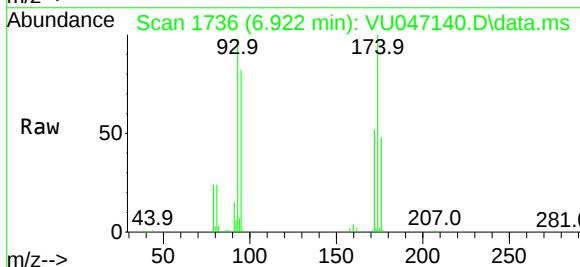
Tgt Ion: 93 Resp: 148120

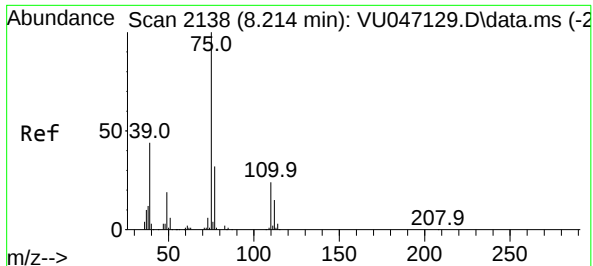
Ion Ratio Lower Upper

93 100

95 83.3 66.2 99.2

174 103.1 70.7 106.1





#50

t-1,3-Dichloropropene

Concen: 14.473 ug/l

RT: 8.214 min Scan# 2138

Delta R.T. -0.000 min

Lab File: VU047140.D

Acq: 14 Feb 2022 18:54

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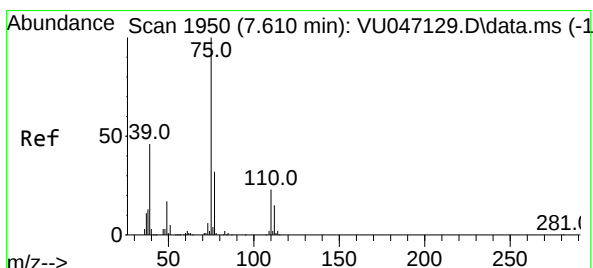
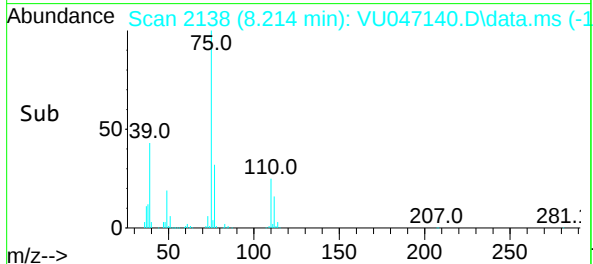
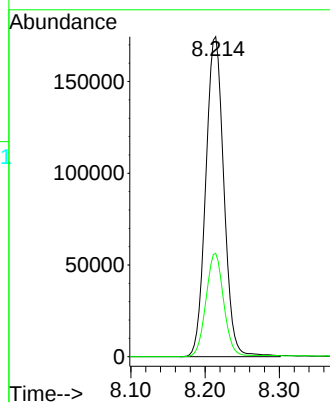
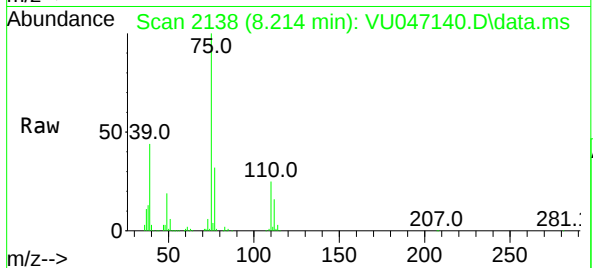
PT-UNRVOA-WS

Tgt Ion: 75 Resp: 295008

Ion Ratio Lower Upper

75 100

77 32.3 25.6 38.4



#51

cis-1,3-Dichloropropene

Concen: 18.392 ug/l

RT: 7.610 min Scan# 1950

Delta R.T. -0.000 min

Lab File: VU047140.D

Acq: 14 Feb 2022 18:54

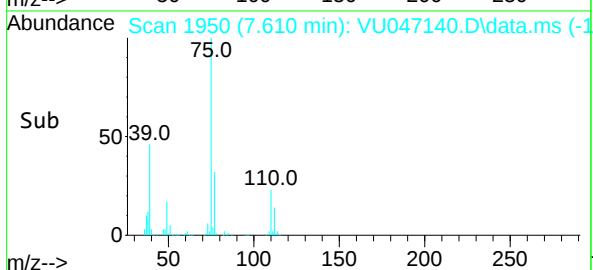
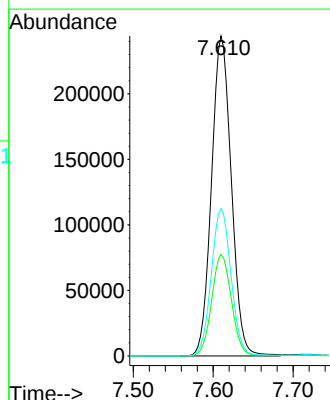
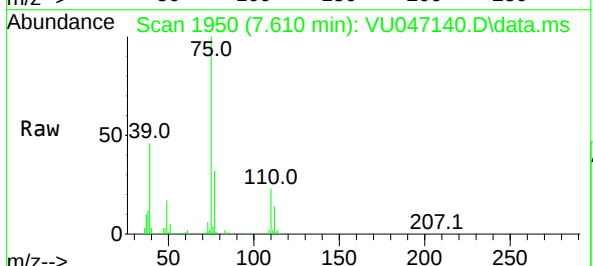
Tgt Ion: 75 Resp: 420259

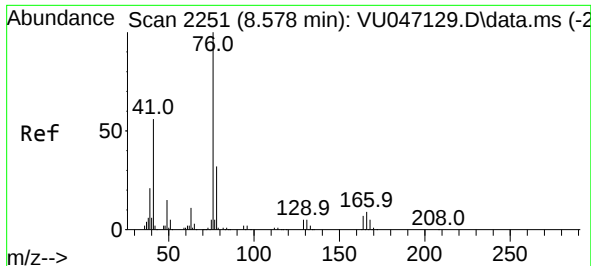
Ion Ratio Lower Upper

75 100

77 31.8 25.2 37.8

39 46.1 38.6 57.8





#53

1,3-Dichloropropane

Concen: 17.700 ug/l

RT: 8.578 min Scan# 21

Delta R.T. -0.000 min

Lab File: VU047140.D

Acq: 14 Feb 2022 18:54

Instrument :

MSVOA_U

ClientSampleId :

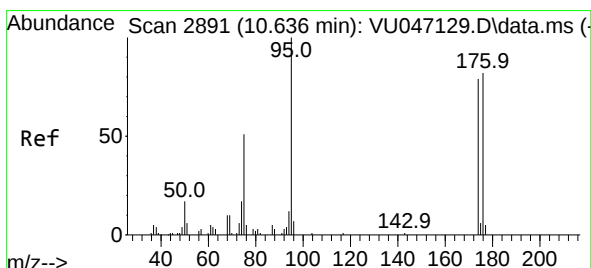
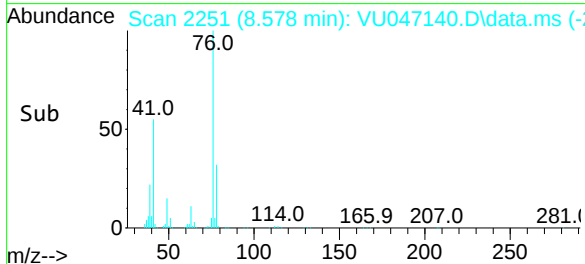
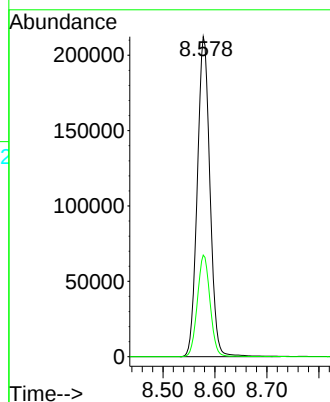
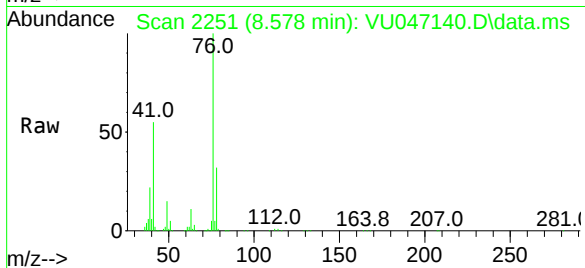
PT-UNRVOA-WS

Tgt Ion: 76 Resp: 359250

Ion Ratio Lower Upper

76 100

78 31.7 25.4 38.2



#57

4-Bromofluorobenzene

Concen: 0.964 ug/l

RT: 10.635 min Scan# 2891

Delta R.T. -0.000 min

Lab File: VU047140.D

Acq: 14 Feb 2022 18:54

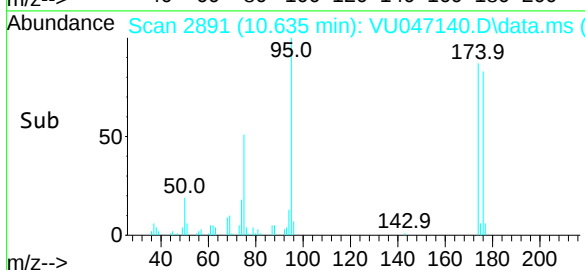
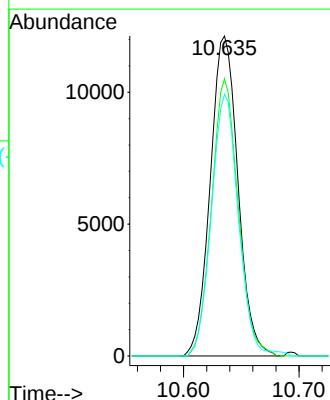
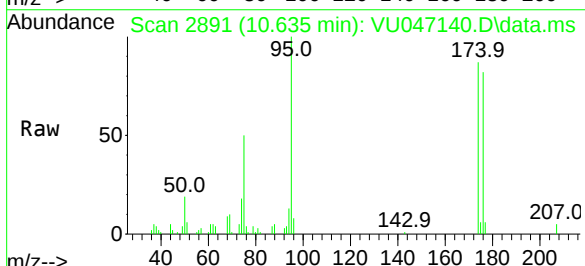
Tgt Ion: 95 Resp: 20227

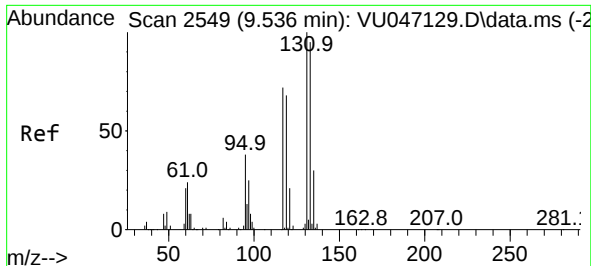
Ion Ratio Lower Upper

95 100

174 83.2 56.6 84.8

176 80.0 54.3 81.5

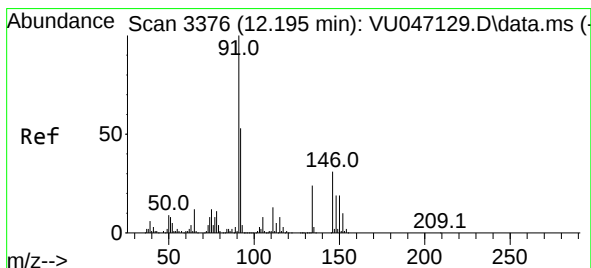
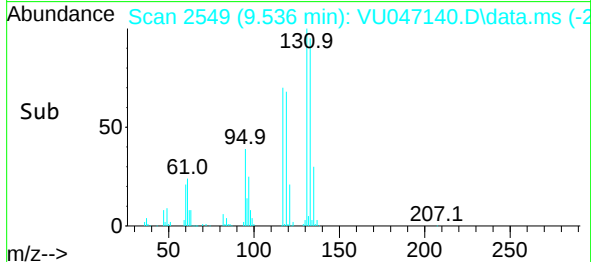
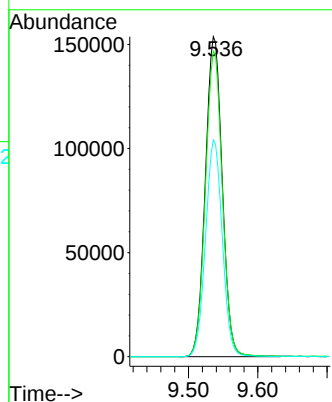
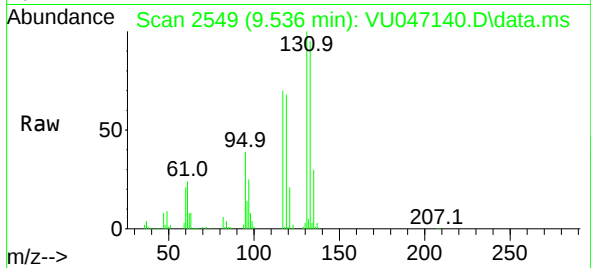




#60
1,1,1,2-Tetrachloroethane
Concen: 18.861 ug/l
RT: 9.536 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU047140.D
Acq: 14 Feb 2022 18:54

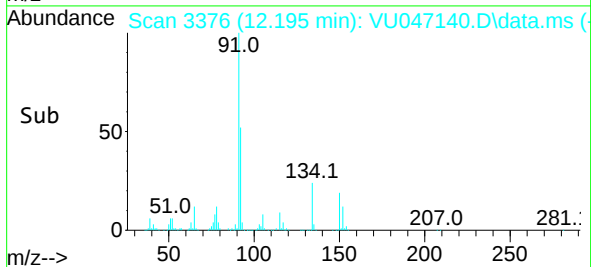
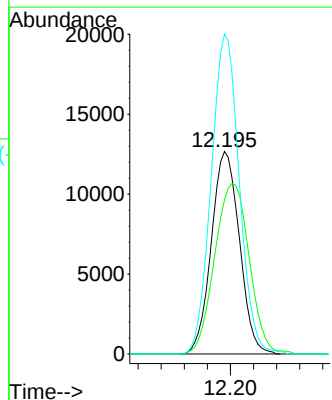
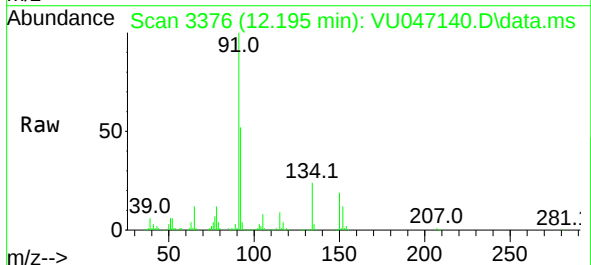
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

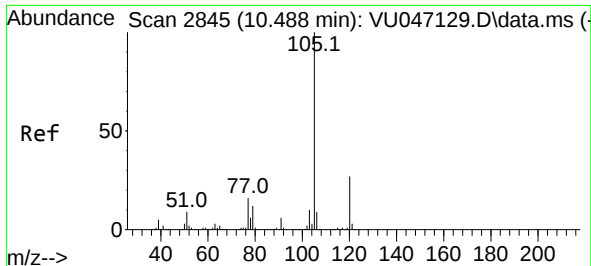
Tgt Ion:131 Resp: 260113
Ion Ratio Lower Upper
131 100
133 95.3 76.0 114.0
119 67.3 54.9 82.3



#68
1,2-Dichlorobenzene-d4
Concen: 0.979 ug/l
RT: 12.195 min Scan# 3376
Delta R.T. -0.000 min
Lab File: VU047140.D
Acq: 14 Feb 2022 18:54

Tgt Ion:152 Resp: 21397
Ion Ratio Lower Upper
152 100
115 103.4 0.0 251.0
150 157.7 0.0 613.8

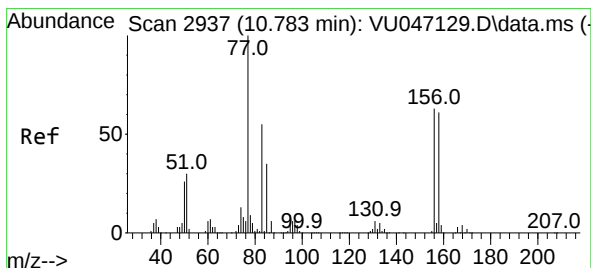
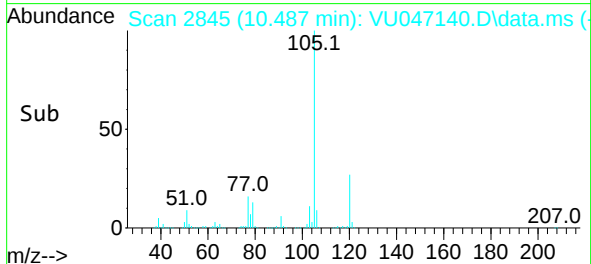
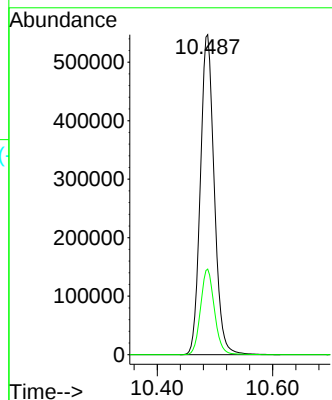
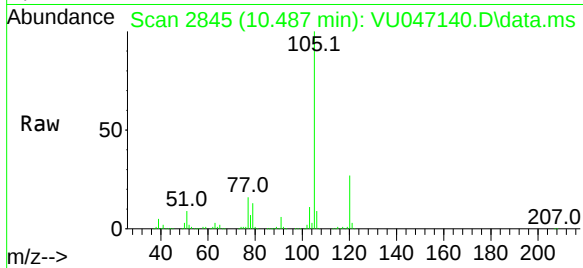




#69
Isopropylbenzene
Concen: 13.051 ug/l
RT: 10.487 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU047140.D
Acq: 14 Feb 2022 18:54

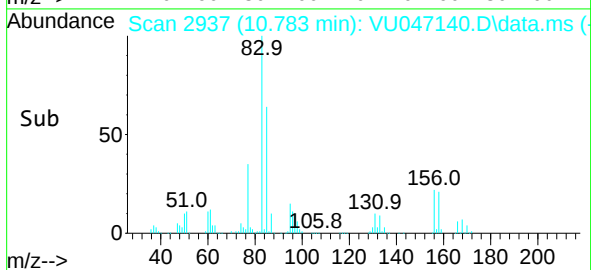
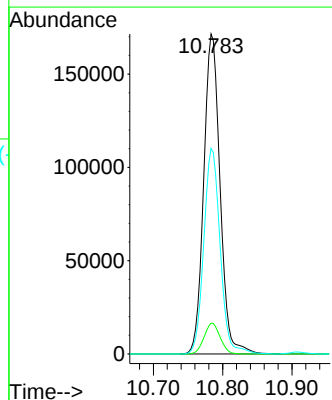
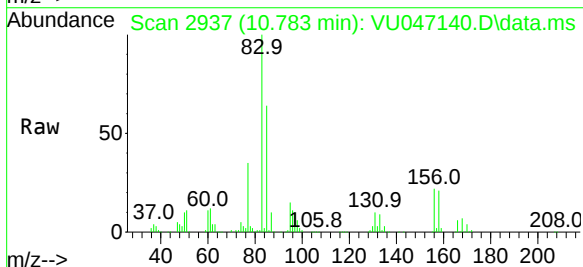
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

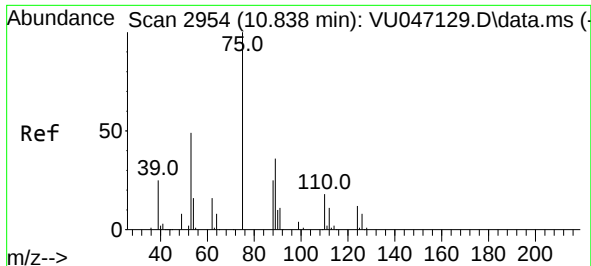
Tgt Ion:105 Resp: 914177
Ion Ratio Lower Upper
105 100
120 26.8 12.8 38.4



#70
1,1,2,2-Tetrachloroethane
Concen: 18.276 ug/l
RT: 10.783 min Scan# 2937
Delta R.T. -0.000 min
Lab File: VU047140.D
Acq: 14 Feb 2022 18:54

Tgt Ion: 83 Resp: 280694
Ion Ratio Lower Upper
83 100
131 9.4 7.6 11.4
85 64.4 50.9 76.3



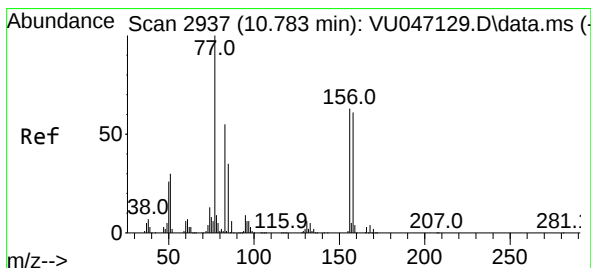
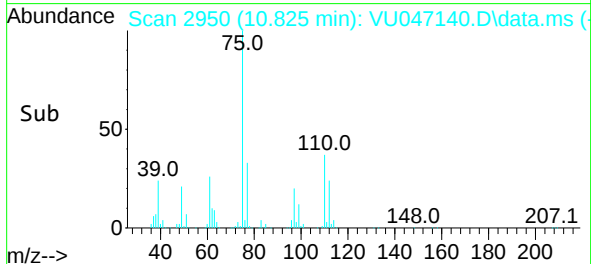
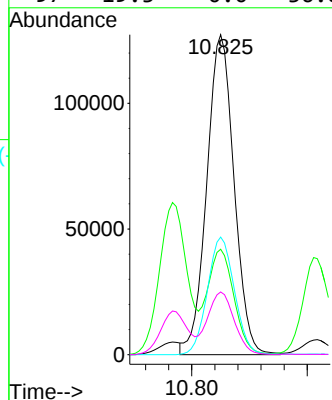
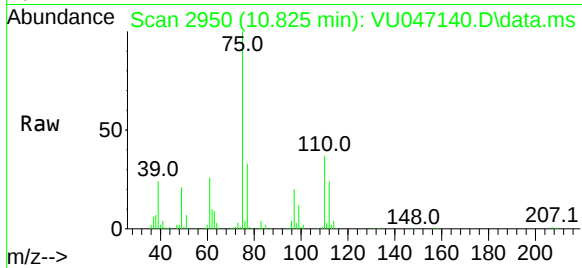


#71
1,2,3-Trichloropropane
Concen: 16.119 ug/l
RT: 10.825 min Scan# 2950
Delta R.T. -0.013 min
Lab File: VU047140.D
Acq: 14 Feb 2022 18:54

Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

Tgt Ion: 75 Resp: 208941

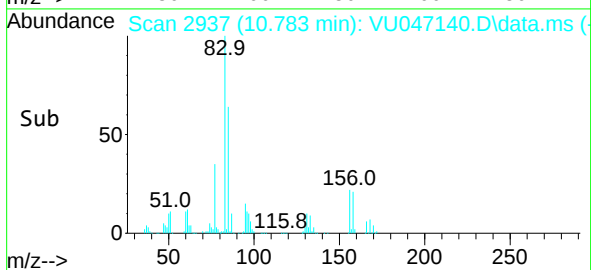
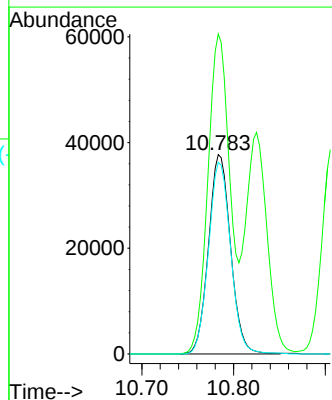
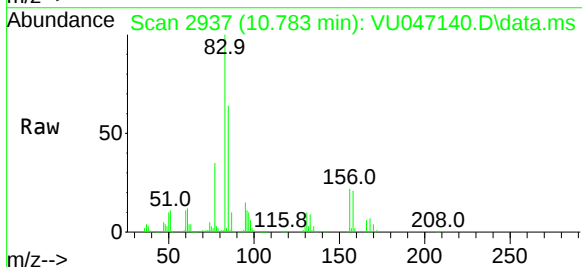
Ion	Ratio	Lower	Upper
75	100		
77	31.8	0.0	105.6
110	36.4	0.0	71.2
97	19.3	0.0	36.8

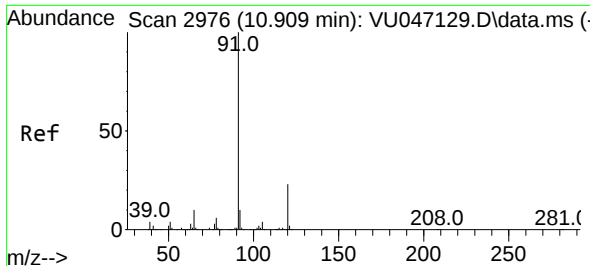


#72
Bromobenzene
Concen: 3.686 ug/l
RT: 10.783 min Scan# 2937
Delta R.T. -0.000 min
Lab File: VU047140.D
Acq: 14 Feb 2022 18:54

Tgt Ion: 156 Resp: 63059

Ion	Ratio	Lower	Upper
156	100		
77	159.9	0.0	370.6
158	96.4	0.0	193.4

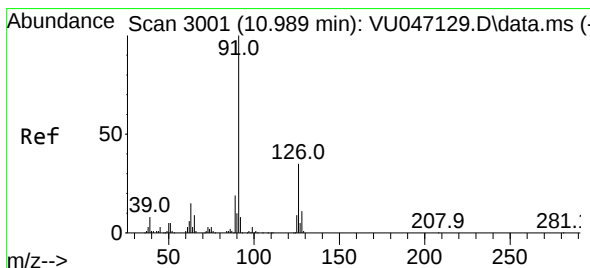
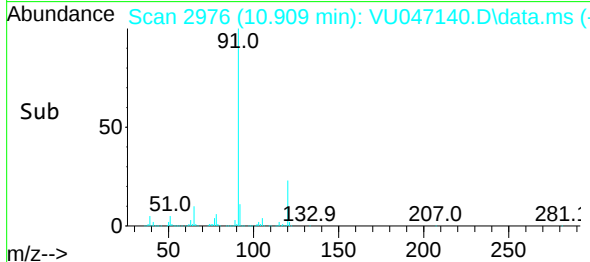
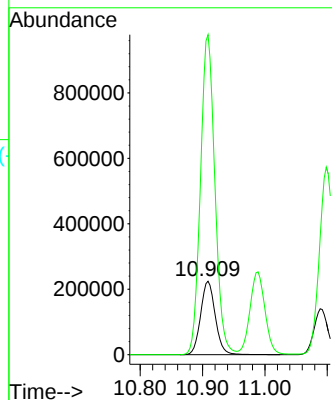
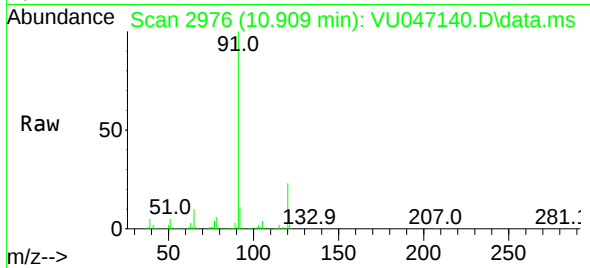




#73
n-propylbenzene
Concen: 18.945 ug/l
RT: 10.909 min Scan# 2976
Delta R.T. -0.000 min
Lab File: VU047140.D
Acq: 14 Feb 2022 18:54

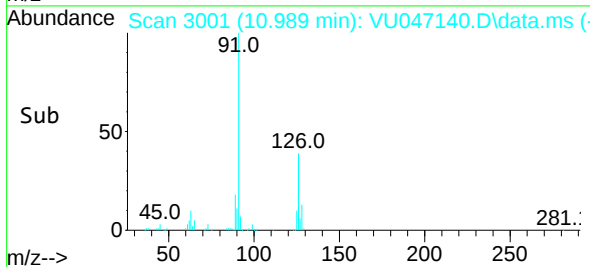
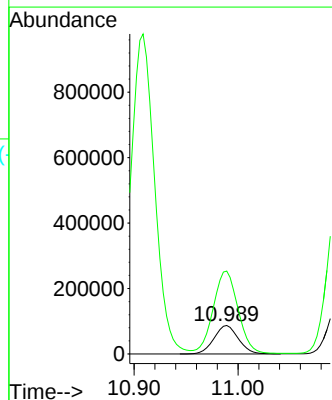
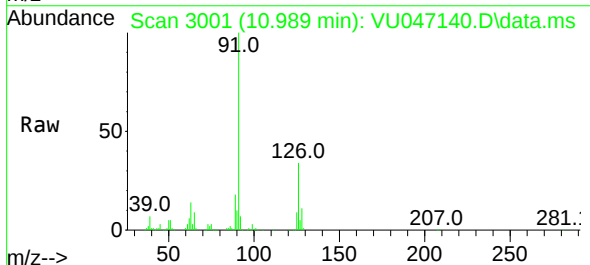
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

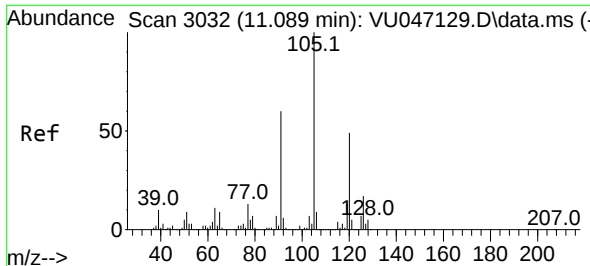
Tgt Ion:120 Resp: 365330
Ion Ratio Lower Upper
120 100
91 430.7 370.7 556.1



#74
2-Chlorotoluene
Concen: 8.630 ug/l
RT: 10.989 min Scan# 3001
Delta R.T. -0.000 min
Lab File: VU047140.D
Acq: 14 Feb 2022 18:54

Tgt Ion:126 Resp: 141876
Ion Ratio Lower Upper
126 100
91 301.1 0.0 639.6

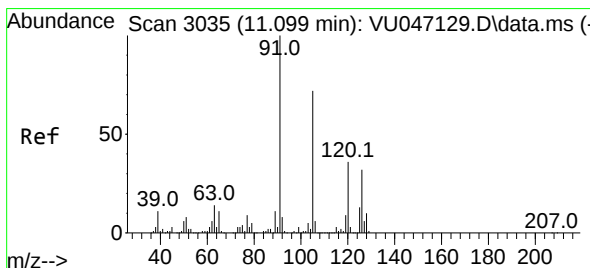
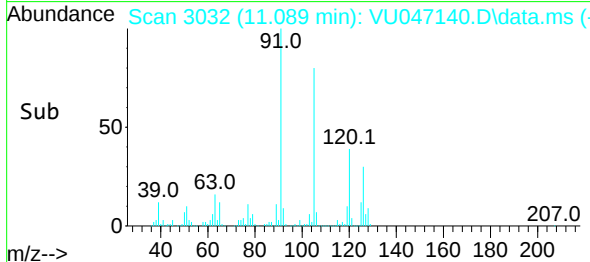
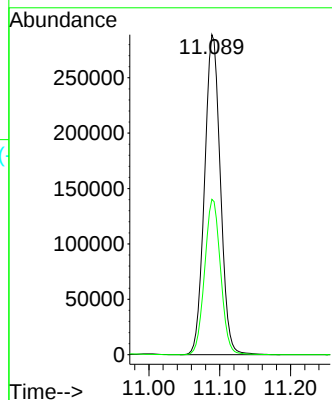
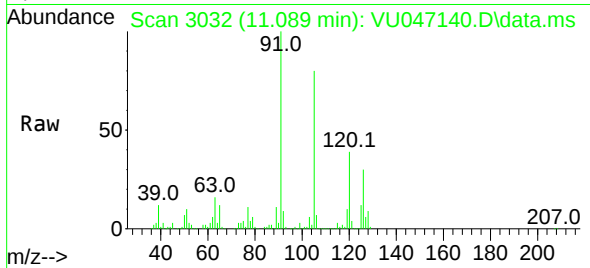




#75
1,3,5-Trimethylbenzene
Concen: 7.801 ug/l
RT: 11.089 min Scan# 3032
Delta R.T. -0.000 min
Lab File: VU047140.D
Acq: 14 Feb 2022 18:54

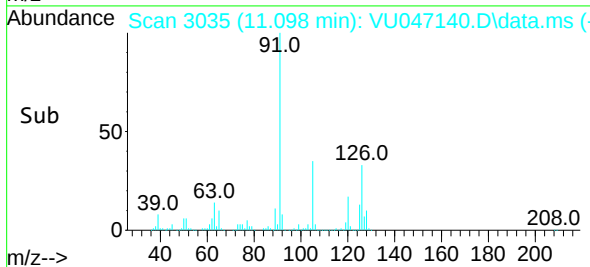
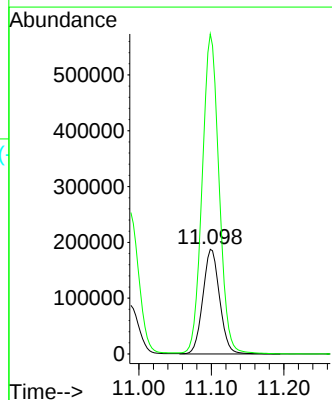
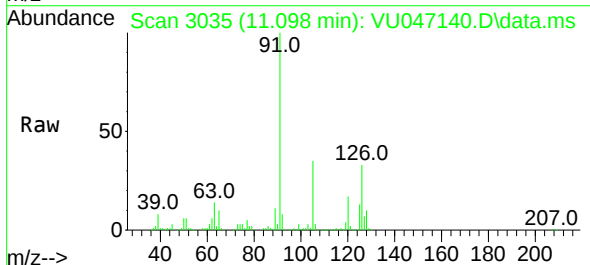
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

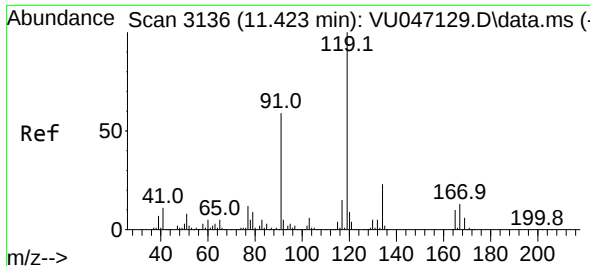
Tgt Ion:105 Resp: 448112
Ion Ratio Lower Upper
105 100
120 48.8 38.6 58.0



#76
4-Chlorotoluene
Concen: 17.438 ug/l
RT: 11.098 min Scan# 3035
Delta R.T. -0.000 min
Lab File: VU047140.D
Acq: 14 Feb 2022 18:54

Tgt Ion:126 Resp: 301187
Ion Ratio Lower Upper
126 100
91 308.6 0.0 728.0

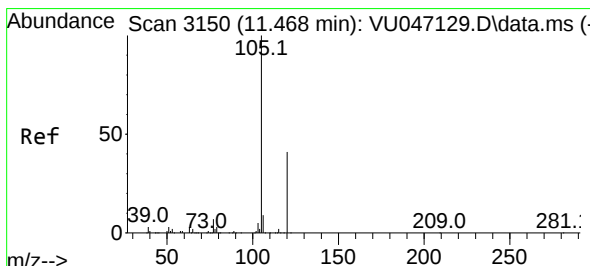
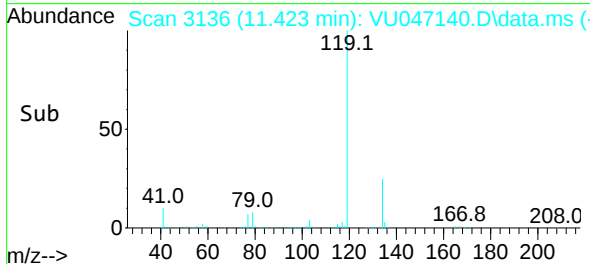
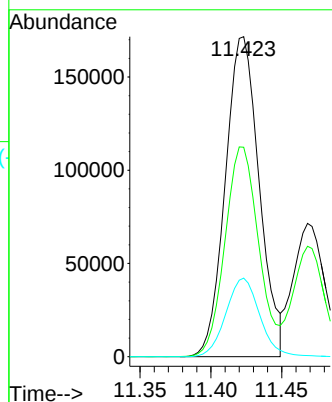
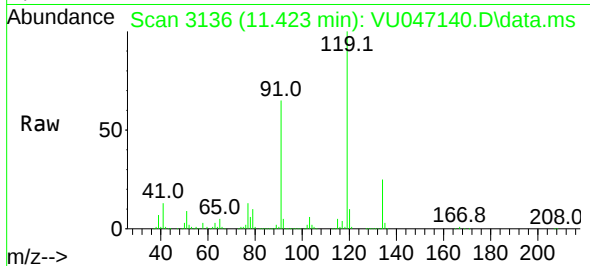




#77
 tert-Butylbenzene
 Concen: 4.970 ug/l
 RT: 11.423 min Scan# 3136
 Delta R.T. -0.000 min
 Lab File: VU047140.D
 Acq: 14 Feb 2022 18:54

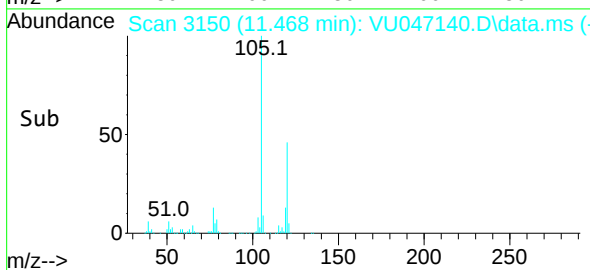
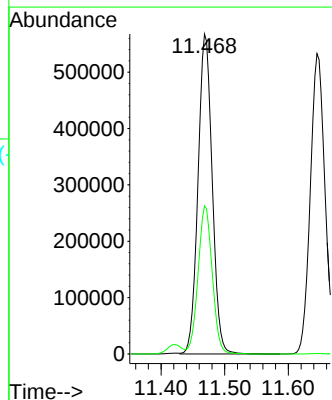
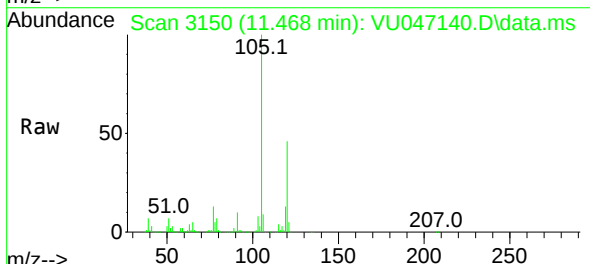
Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WS

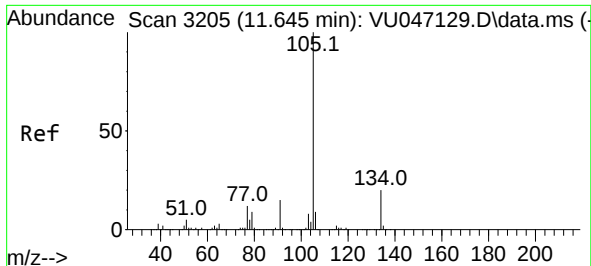
Tgt Ion:119 Resp: 286504
 Ion Ratio Lower Upper
 119 100
 91 65.4 31.4 94.3
 134 24.5 18.5 27.7



#78
 1,2,4-Trimethylbenzene
 Concen: 14.995 ug/l
 RT: 11.468 min Scan# 3150
 Delta R.T. -0.000 min
 Lab File: VU047140.D
 Acq: 14 Feb 2022 18:54

Tgt Ion:105 Resp: 879070
 Ion Ratio Lower Upper
 105 100
 120 46.2 22.3 66.8

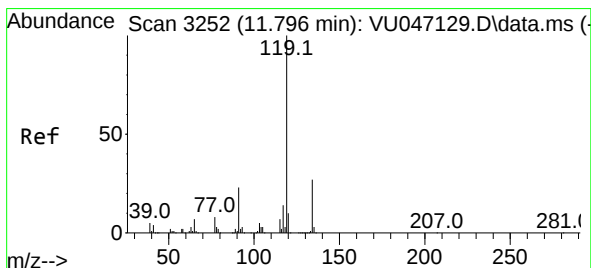
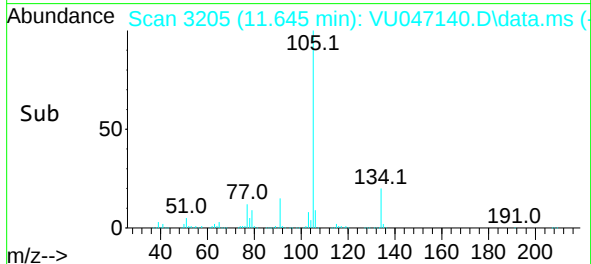
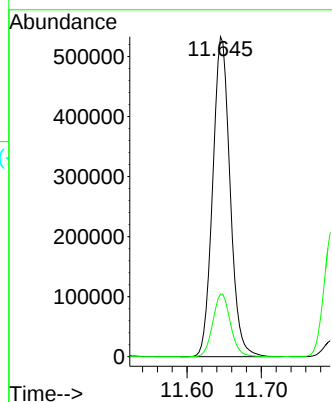
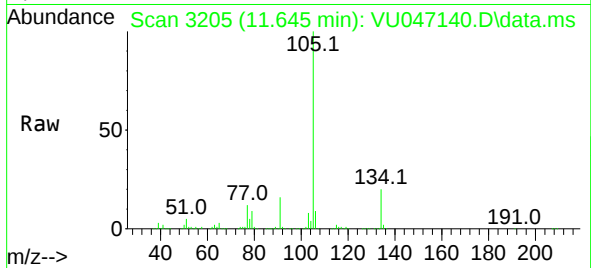




#79
 sec-Butylbenzene
 Concen: 11.292 ug/l
 RT: 11.645 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: VU047140.D
 Acq: 14 Feb 2022 18:54

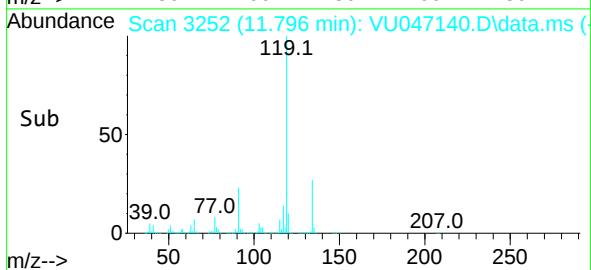
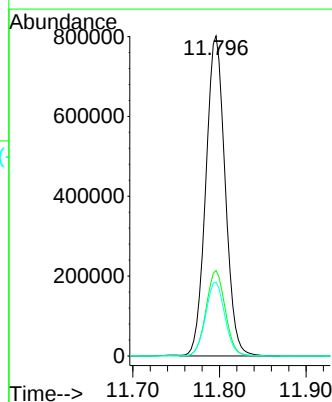
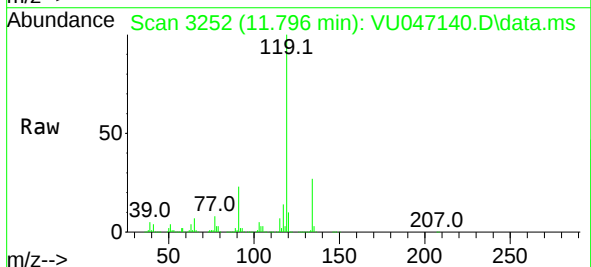
Instrument :
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 ClientSampleId :
 PT-UNRVOA-WS

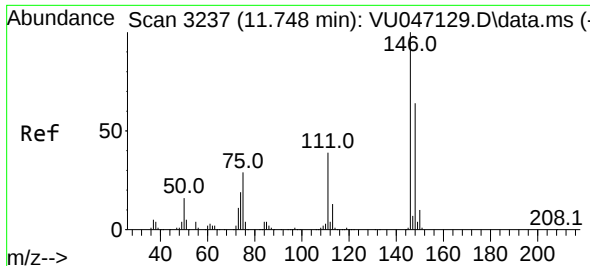
Tgt Ion:105 Resp: 864332
 Ion Ratio Lower Upper
 105 100
 134 19.9 15.4 23.0



#81
 p-Isopropyltoluene
 Concen: 19.155 ug/l
 RT: 11.796 min Scan# 3252
 Delta R.T. -0.000 min
 Lab File: VU047140.D
 Acq: 14 Feb 2022 18:54

Tgt Ion:119 Resp: 1240642
 Ion Ratio Lower Upper
 119 100
 134 26.6 20.2 30.4
 91 23.2 19.9 29.9

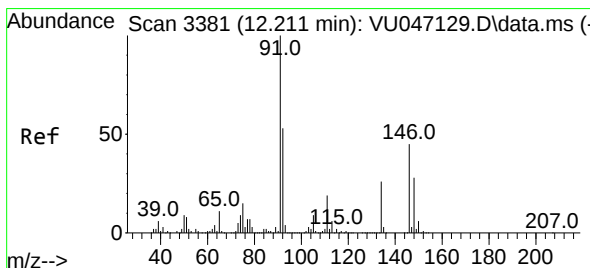
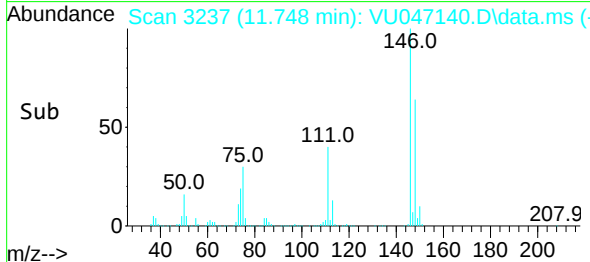
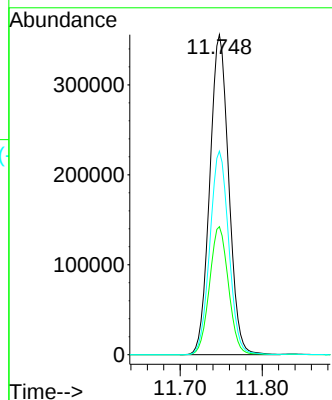
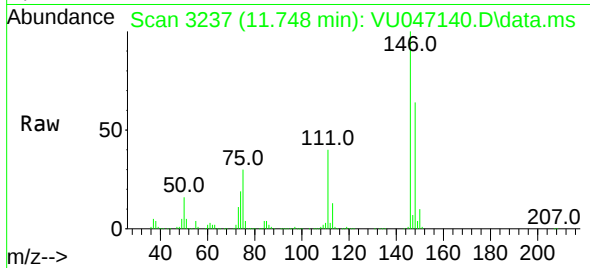




#82
1,3-Dichlorobenzene
Concen: 17.190 ug/l
RT: 11.748 min Scan# 31
Delta R.T. -0.000 min
Lab File: VU047140.D
Acq: 14 Feb 2022 18:54

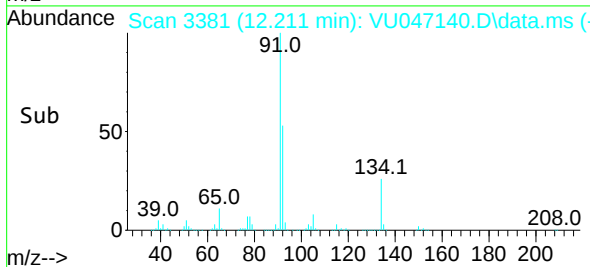
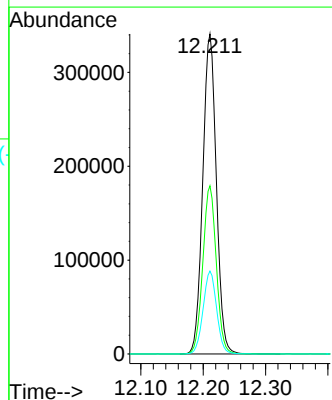
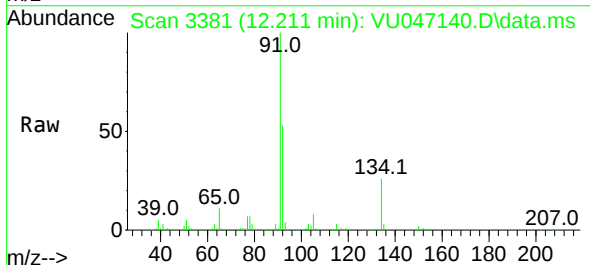
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

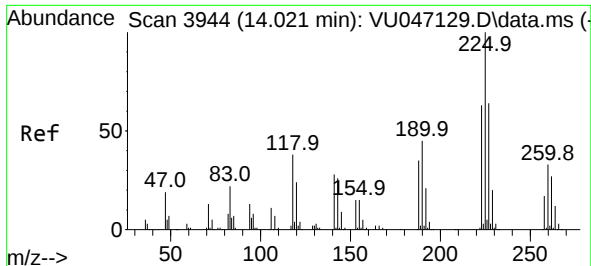
Tgt Ion:146 Resp: 572507
Ion Ratio Lower Upper
146 100
111 40.0 33.9 50.9
148 63.5 50.9 76.3



#84
n-Butylbenzene
Concen: 8.293 ug/l
RT: 12.211 min Scan# 3381
Delta R.T. -0.000 min
Lab File: VU047140.D
Acq: 14 Feb 2022 18:54

Tgt Ion: 91 Resp: 515795
Ion Ratio Lower Upper
91 100
92 52.2 43.5 65.3
134 25.9 19.0 28.4

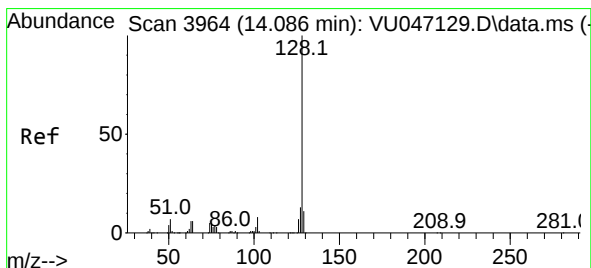
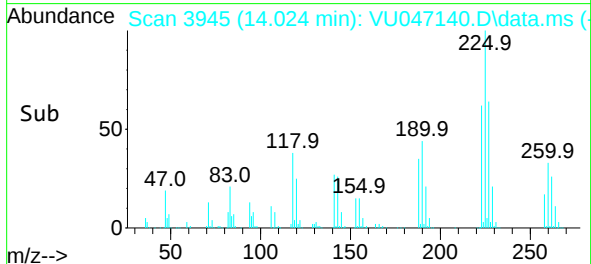
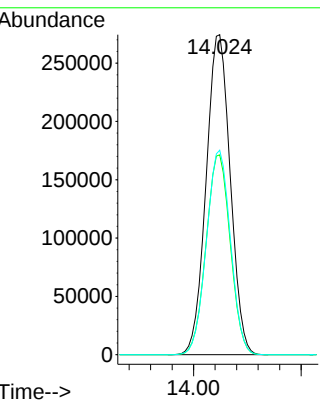
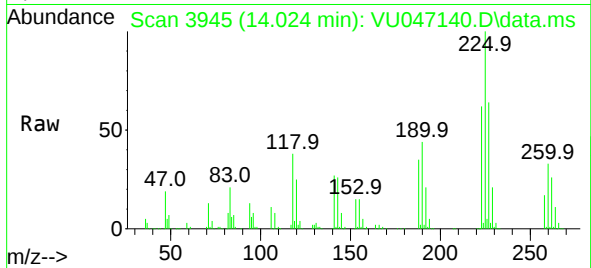




#88
Hexachlorobutadiene
Concen: 33.206 ug/l
RT: 14.024 min Scan# 3944
Delta R.T. 0.003 min
Lab File: VU047140.D
Acq: 14 Feb 2022 18:54

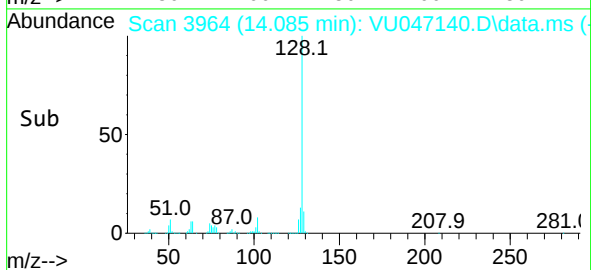
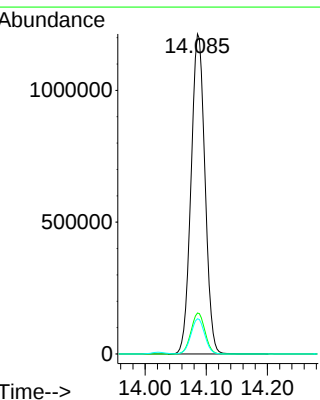
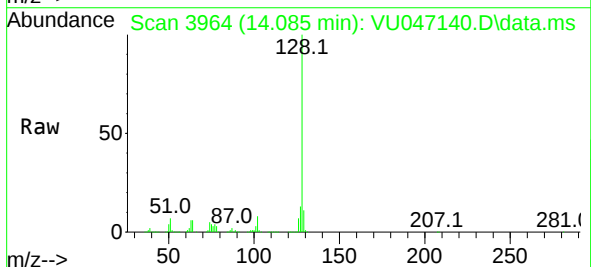
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

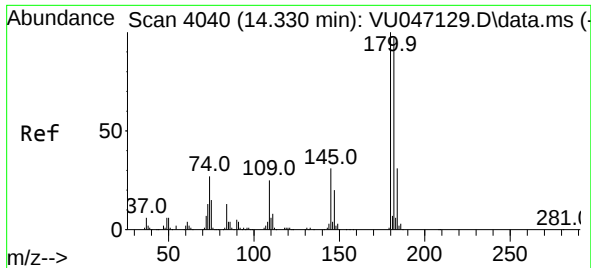
Tgt Ion:225 Resp: 427324
Ion Ratio Lower Upper
225 100
223 62.7 51.1 76.7
227 63.8 49.9 74.9



#89
Naphthalene
Concen: 37.197 ug/l
RT: 14.085 min Scan# 3964
Delta R.T. -0.000 min
Lab File: VU047140.D
Acq: 14 Feb 2022 18:54

Tgt Ion:128 Resp: 1917802
Ion Ratio Lower Upper
128 100
127 12.8 10.6 16.0
129 10.9 8.6 13.0





#90

1,2,3-Trichlorobenzene

Concen: 48.209 ug/l

RT: 14.330 min Scan# 40

Delta R.T. -0.000 min

Lab File: VU047140.D

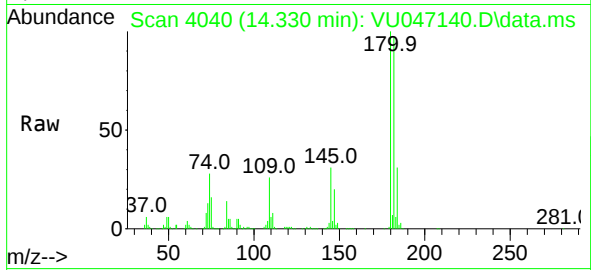
Acq: 14 Feb 2022 18:54

Instrument :

MSVOA_U

ClientSampleId :

PT-UNRVOA-WS



Tgt Ion:180 Resp: 1088438

Ion Ratio Lower Upper

180 100

182 96.3 75.4 113.0

145 31.2 27.0 40.4

