

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU012921\
 Data File : VU042224.D
 Acq On : 29 Jan 2021 15:23
 Operator : SY/MD
 Sample : M1126-08
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WS

Quant Time: Jan 30 00:51:46 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U012821DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Fri Jan 29 09:59:59 2021
 Response via : Initial Calibration

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

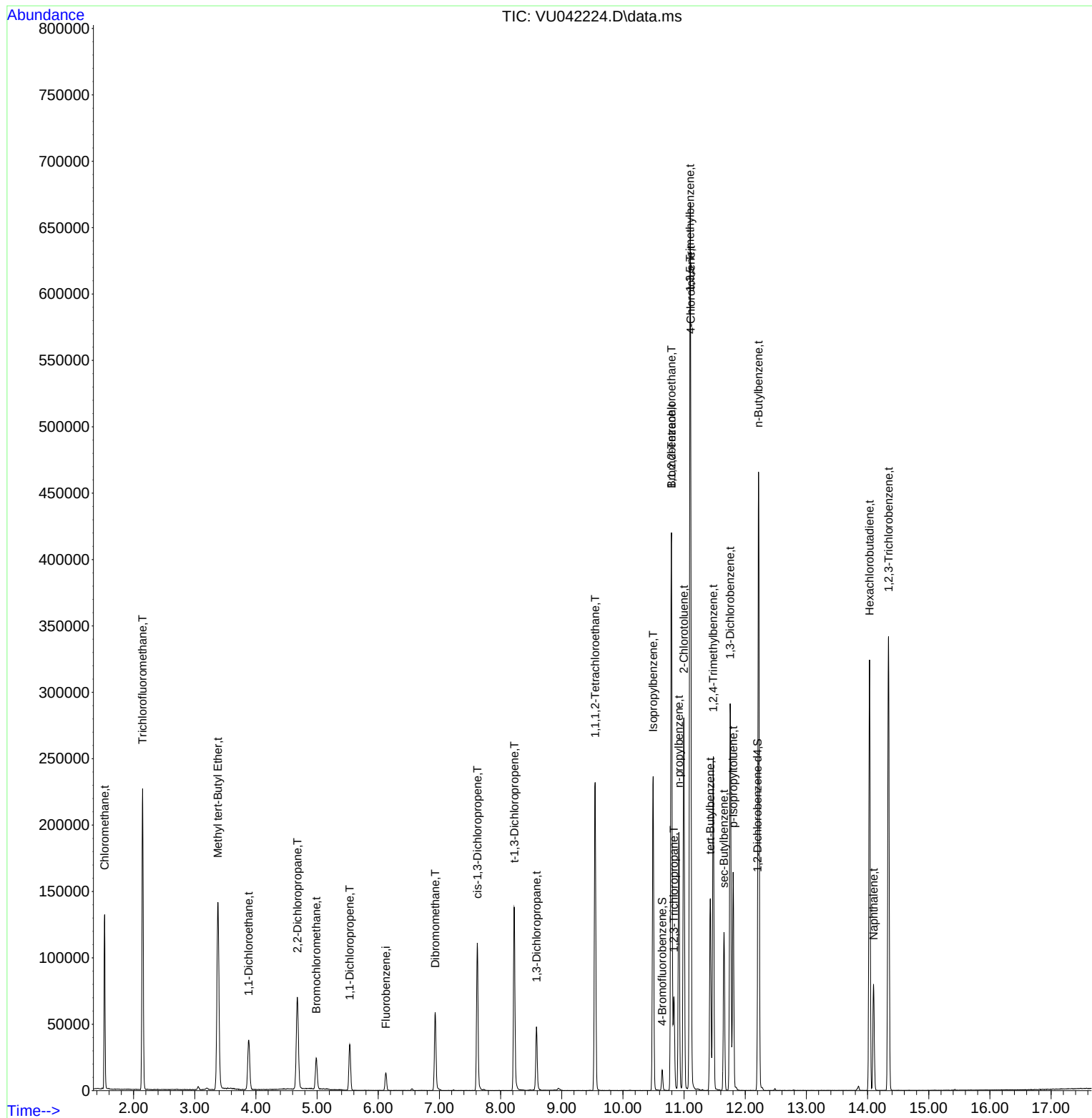
Internal Standards						
1) Fluorobenzene	6.124	96	12147	1.00	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.642	95	5023	1.07	ug/l	0.00
Spiked Amount 1.000			Recovery	=	107.00%	
68) 1,2-Dichlorobenzene-d4	12.201	152	5119	1.07	ug/l	0.00
Spiked Amount 1.000			Recovery	=	107.00%	
Target Compounds						
						Qvalue
3) Chloromethane	1.526	50	86142	19.94	ug/l	99
7) Trichlorofluoromethane	2.147	101	143699	24.96	ug/l	99
17) 1,1-Dichloroethane	3.880	63	43903	7.39	ug/l	99
21) 2,2-Dichloropropane	4.677	77	48449	8.55	ug/l	93
25) Methyl tert-Butyl Ether	3.378	73	154157	18.74	ug/l	100
26) Bromochloromethane	4.986	128	7040	4.69	ug/l	100
29) 1,1-Dichloropropene	5.533	75	17050	3.38	ug/l	99
43) Dibromomethane	6.931	93	22092	11.53	ug/l	99
50) t-1,3-Dichloropropene	8.224	75	72969	15.18	ug/l	99
51) cis-1,3-Dichloropropene	7.619	75	59060	10.96	ug/l	98
53) 1,3-Dichloropropane	8.587	76	25005	5.25	ug/l	99
60) 1,1,1,2-Tetrachloroethane	9.545	131	61687	18.05	ug/l	99
69) Isopropylbenzene	10.494	105	143827	8.82	ug/l	100
70) 1,1,2,2-Tetrachloroethane	10.793	83	57766	16.73	ug/l	100
71) 1,2,3-Trichloropropane	10.835	75	27079	9.96	ug/l #	61
72) Bromobenzene	10.793	156	80025	19.46	ug/l	99
73) n-propylbenzene	10.915	120	31993	7.37	ug/l	99
74) 2-Chlorotoluene	10.996	126	49828	12.87	ug/l	99
75) 1,3,5-Trimethylbenzene	11.098	105	233675	16.51	ug/l	100
76) 4-Chlorotoluene	11.108	126	53698	13.68	ug/l	97
77) tert-Butylbenzene	11.430	119	65321	4.66	ug/l	89
78) 1,2,4-Trimethylbenzene	11.478	105	130531	9.18	ug/l	99
79) sec-Butylbenzene	11.651	105	78730	4.36	ug/l	99
81) p-Isopropyltoluene	11.803	119	84942	5.54	ug/l	99
82) 1,3-Dichlorobenzene	11.754	146	115831	14.92	ug/l	99
84) n-Butylbenzene	12.217	91	248888	16.98	ug/l	99
88) Hexachlorobutadiene	14.031	225	59874	18.29	ug/l	99
89) Naphthalene	14.098	128	62664	5.77	ug/l	100
90) 1,2,3-Trichlorobenzene	14.343	180	106705	20.19	ug/l	99

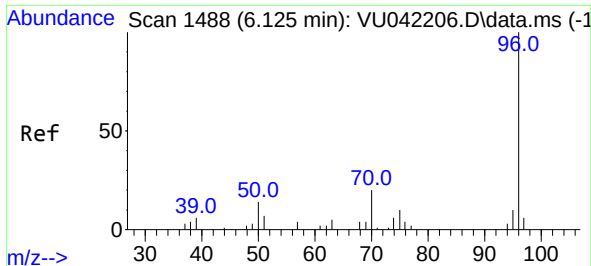
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jan 30 00:51:46 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U012821DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Fri Jan 29 09:59:59 2021
Response via : Initial Calibration

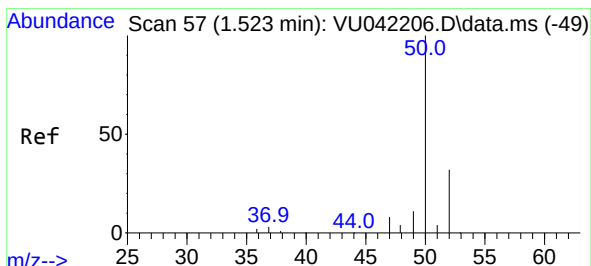
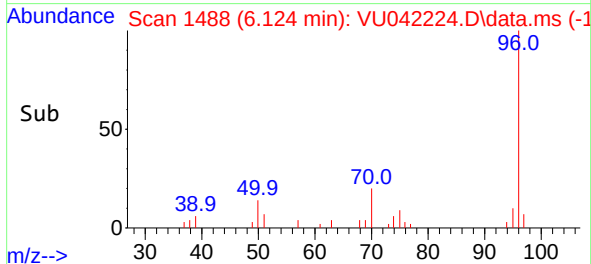
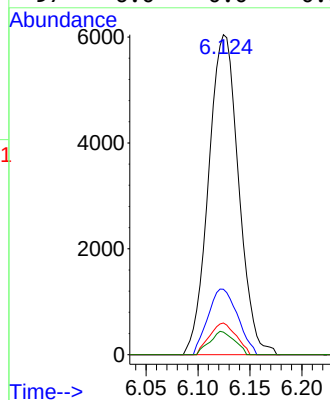
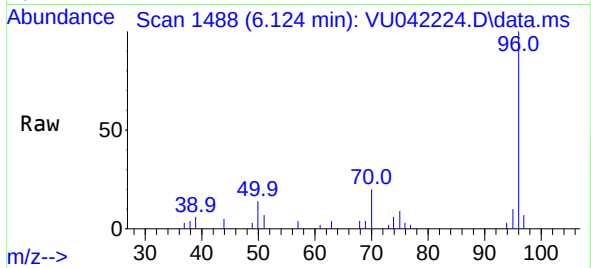




#1
Fluorobenzene
Concen: 1.00 ug/l
RT: 6.124 min Scan# 1488
Delta R.T. -0.001 min
Lab File: VU042224.D
Acq: 29 Jan 2021 15:23

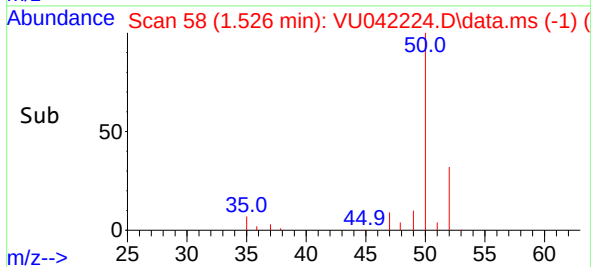
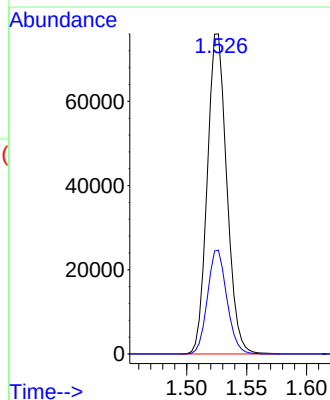
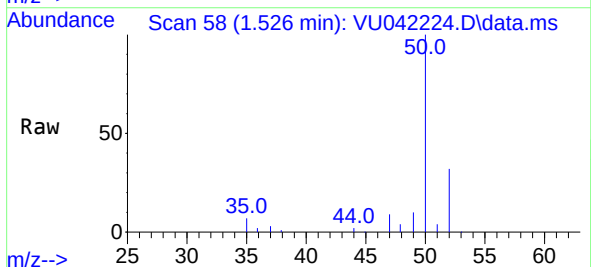
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

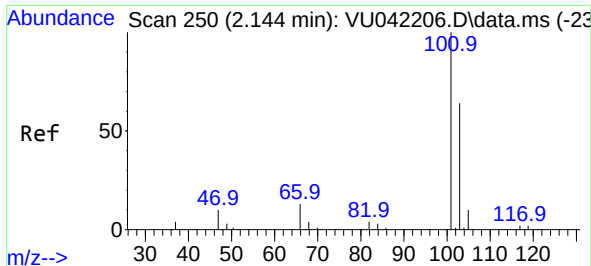
Tgt Ion: 96	Resp: 12147
Ion Ratio	Lower Upper
96 100	
70 20.3	16.3 24.5
95 8.8	7.6 11.4
97 6.0	0.0 0.0#



#3
Chloromethane
Concen: 19.94 ug/l
RT: 1.526 min Scan# 58
Delta R.T. 0.003 min
Lab File: VU042224.D
Acq: 29 Jan 2021 15:23

Tgt Ion: 50	Resp: 86142
Ion Ratio	Lower Upper
50 100	
52 32.5	25.6 38.4

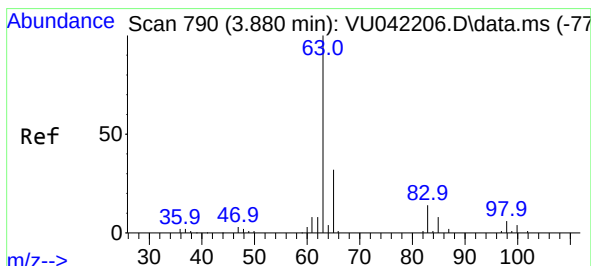
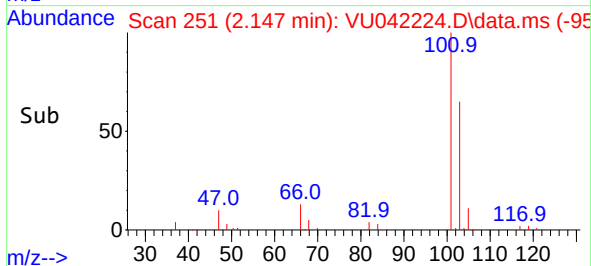
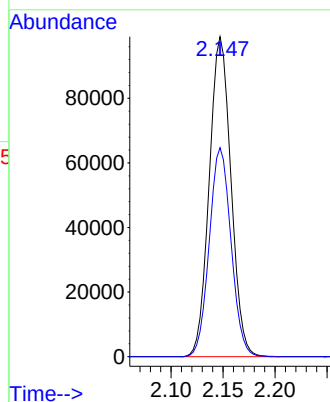
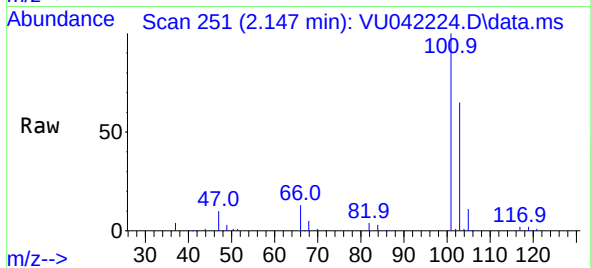




#7
 Trichlorofluoromethane
 Concen: 24.96 ug/l
 RT: 2.147 min Scan# 251
 Delta R.T. 0.003 min
 Lab File: VU042224.D
 Acq: 29 Jan 2021 15:23

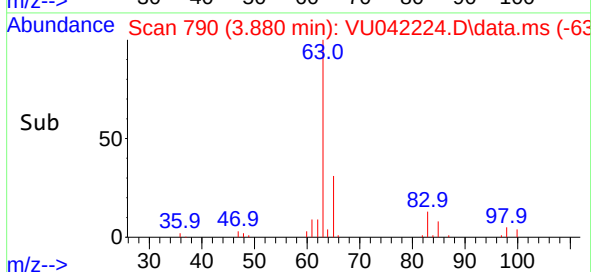
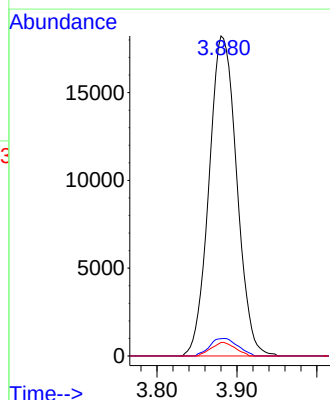
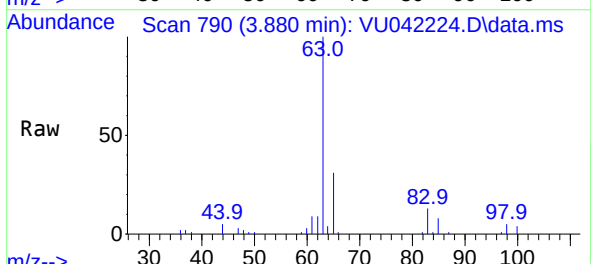
Instrument :
 MSVOA_U
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 PT-UNRVOA-WS

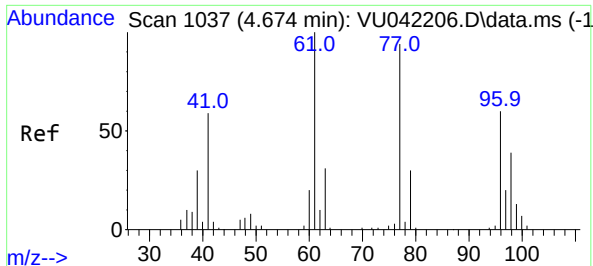
Tgt Ion:101 Resp: 143699
 Ion Ratio Lower Upper
 101 100
 103 65.3 51.5 77.3



#17
 1,1-Dichloroethane
 Concen: 7.39 ug/l
 RT: 3.880 min Scan# 790
 Delta R.T. 0.000 min
 Lab File: VU042224.D
 Acq: 29 Jan 2021 15:23

Tgt Ion: 63 Resp: 43903
 Ion Ratio Lower Upper
 63 100
 98 5.4 3.0 9.0
 100 4.2 2.1 6.2





#21

2,2-Dichloropropane

Concen: 8.55 ug/l

RT: 4.677 min Scan# 1038

Delta R.T. 0.003 min

Lab File: VU042224.D

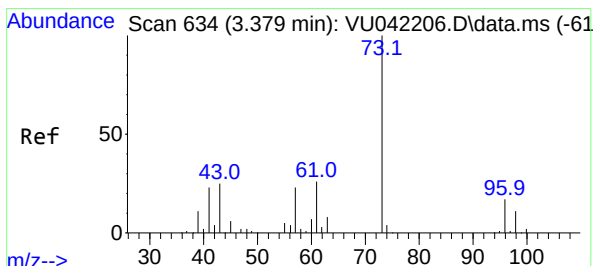
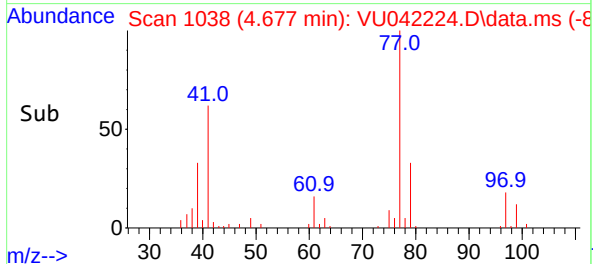
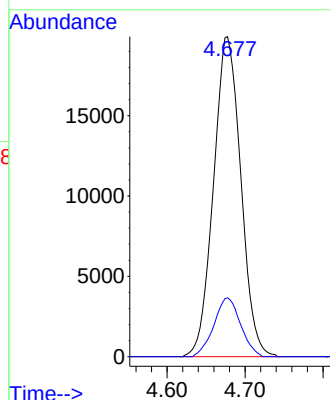
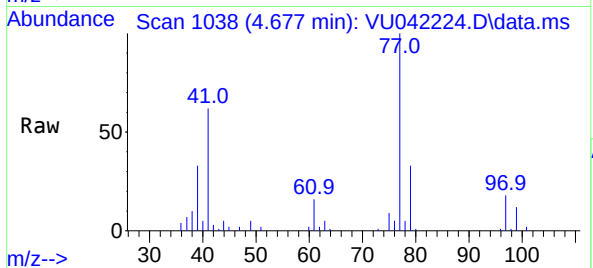
Acq: 29 Jan 2021 15:23

Tgt Ion: 77 Resp: 48449

Ion Ratio Lower Upper

77 100

97 18.0 16.9 25.3



#25

Methyl tert-Butyl Ether

Concen: 18.74 ug/l

RT: 3.378 min Scan# 634

Delta R.T. -0.001 min

Lab File: VU042224.D

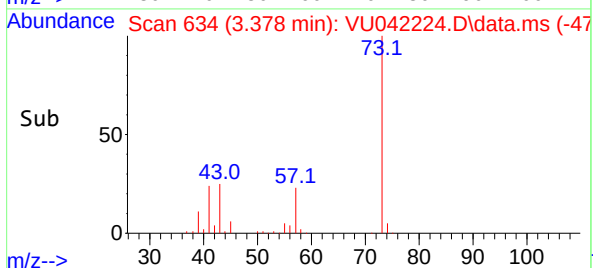
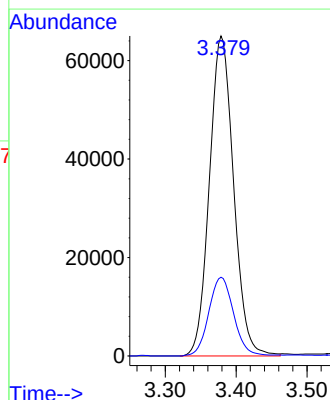
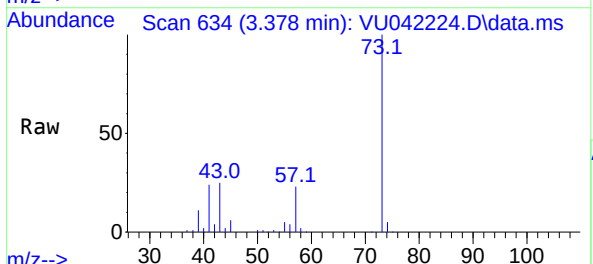
Acq: 29 Jan 2021 15:23

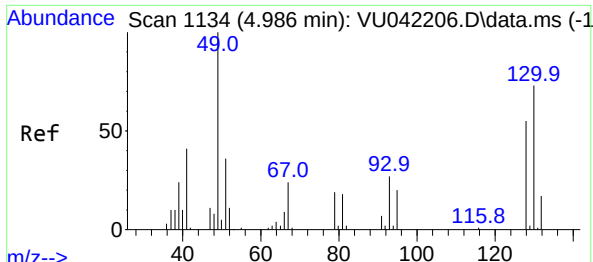
Tgt Ion: 73 Resp: 154157

Ion Ratio Lower Upper

73 100

43 25.4 20.3 30.5

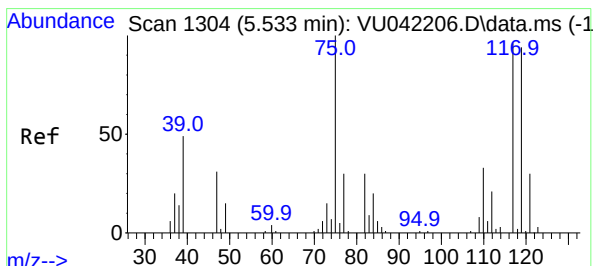
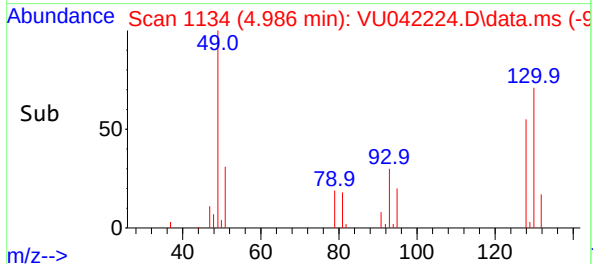
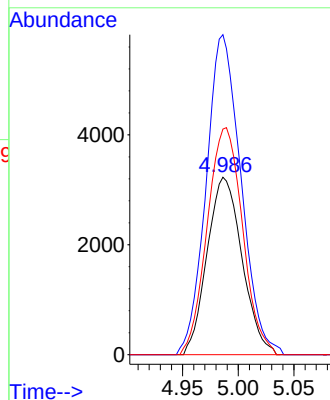
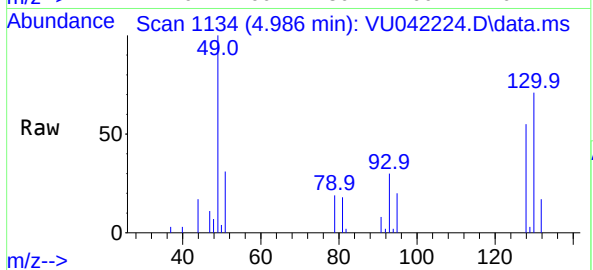




#26
Bromochloromethane
Concen: 4.69 ug/l
RT: 4.986 min Scan# 1134
Delta R.T. 0.000 min
Lab File: VU042224.D
Acq: 29 Jan 2021 15:23

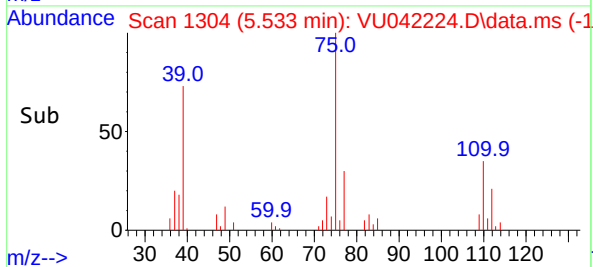
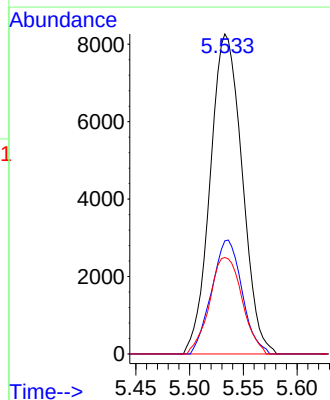
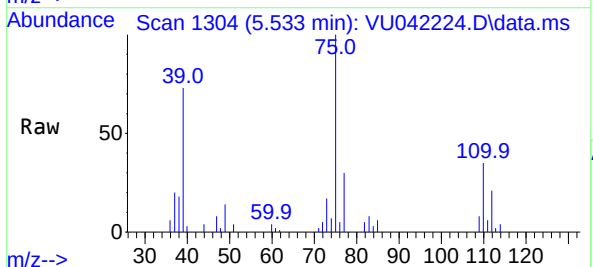
Instrument :
MSVOA_U
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PT-UNRVOA-WS

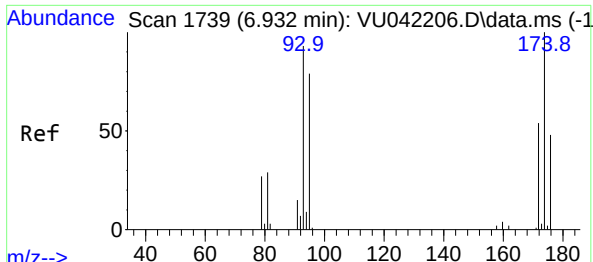
Tgt Ion:128 Resp: 7040
Ion Ratio Lower Upper
128 100
49 179.6 0.0 360.6
130 129.8 103.7 155.5



#29
1,1-Dichloropropene
Concen: 3.38 ug/l
RT: 5.533 min Scan# 1304
Delta R.T. -0.000 min
Lab File: VU042224.D
Acq: 29 Jan 2021 15:23

Tgt Ion: 75 Resp: 17050
Ion Ratio Lower Upper
75 100
110 34.0 16.4 49.2
77 30.7 24.6 36.8



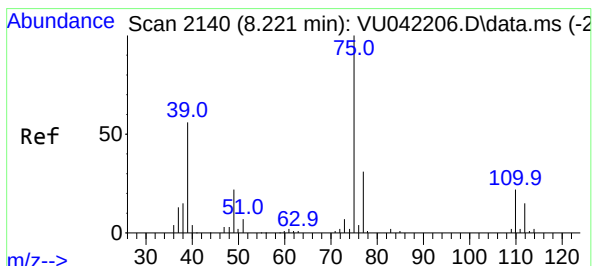
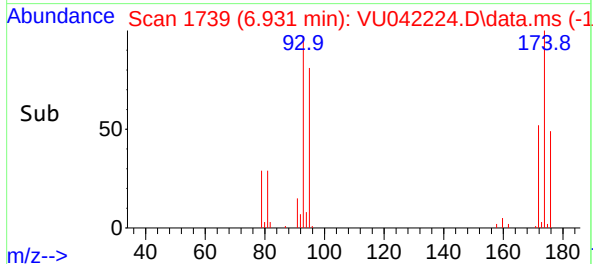
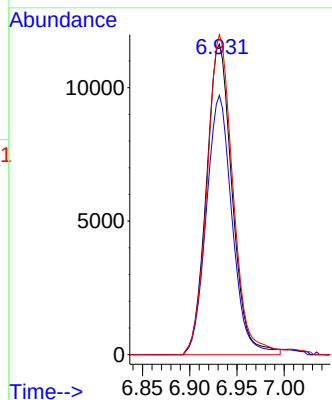
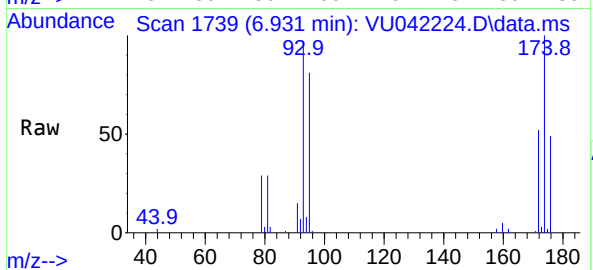


#43
Dibromomethane
Concen: 11.53 ug/l
RT: 6.931 min Scan# 1739
Delta R.T. -0.001 min
Lab File: VU042224.D
Acq: 29 Jan 2021 15:23

Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

Tgt Ion: 93 Resp: 22092

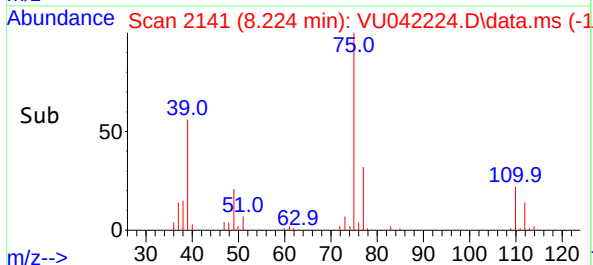
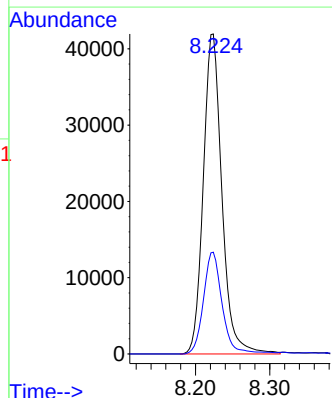
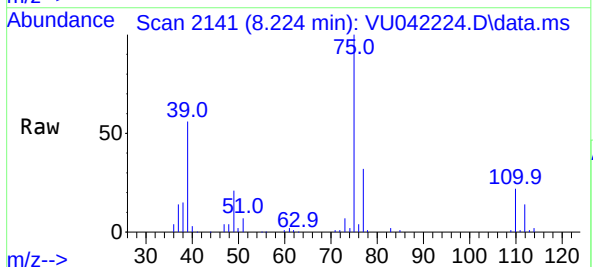
Ion	Ratio	Lower	Upper
93	100		
95	83.0	66.7	100.1
174	103.5	84.2	126.4

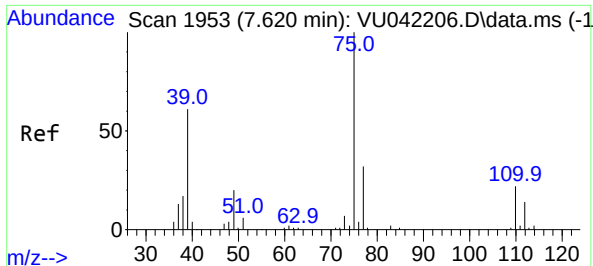


#50
t-1,3-Dichloropropene
Concen: 15.18 ug/l
RT: 8.224 min Scan# 2141
Delta R.T. 0.003 min
Lab File: VU042224.D
Acq: 29 Jan 2021 15:23

Tgt Ion: 75 Resp: 72969

Ion	Ratio	Lower	Upper
75	100		
77	31.8	24.9	37.3

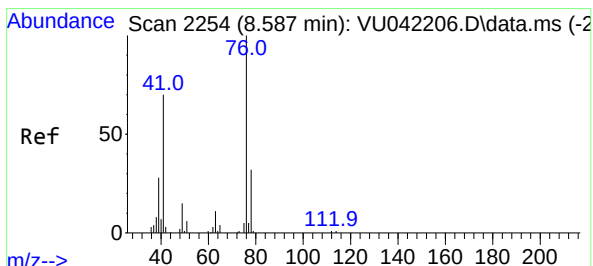
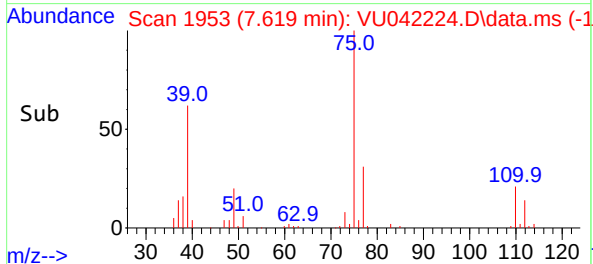
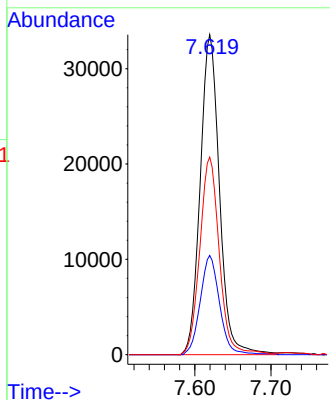
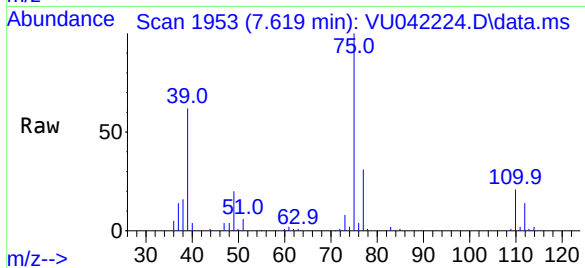




#51
cis-1,3-Dichloropropene
Concen: 10.96 ug/l
RT: 7.619 min Scan# 1953
Delta R.T. -0.001 min
Lab File: VU042224.D
Acq: 29 Jan 2021 15:23

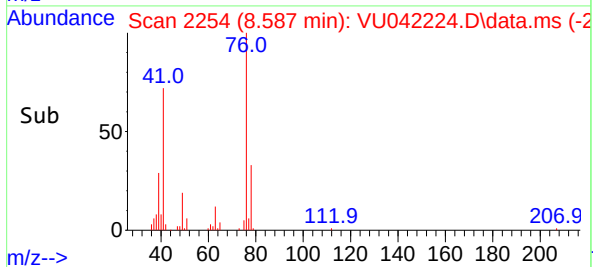
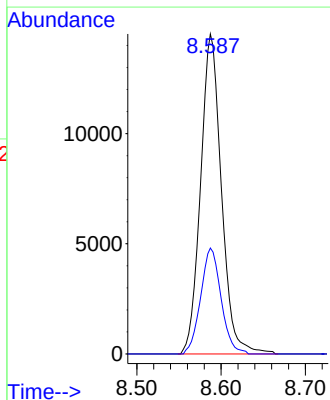
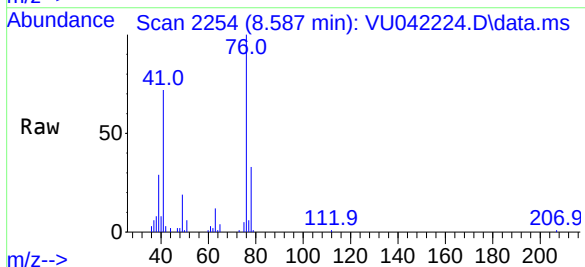
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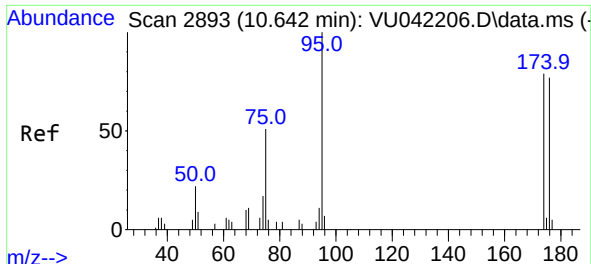
Tgt Ion:	75	Resp:	59060
Ion	Ratio	Lower	Upper
75	100		
77	31.0	25.6	38.4
39	61.7	48.6	72.8



#53
1,3-Dichloropropane
Concen: 5.25 ug/l
RT: 8.587 min Scan# 2254
Delta R.T. 0.000 min
Lab File: VU042224.D
Acq: 29 Jan 2021 15:23

Tgt Ion:	76	Resp:	25005
Ion	Ratio	Lower	Upper
76	100		
78	32.4	25.4	38.2

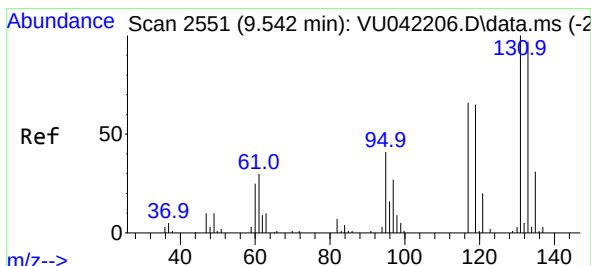
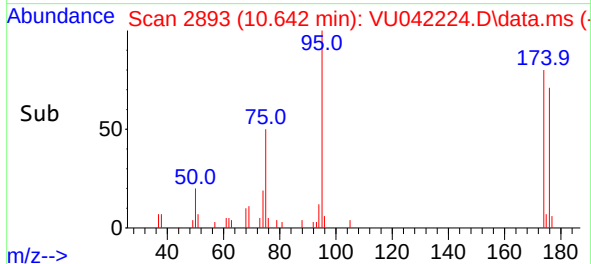
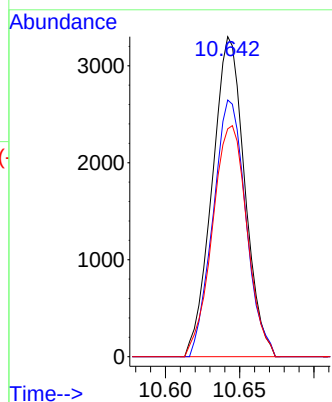
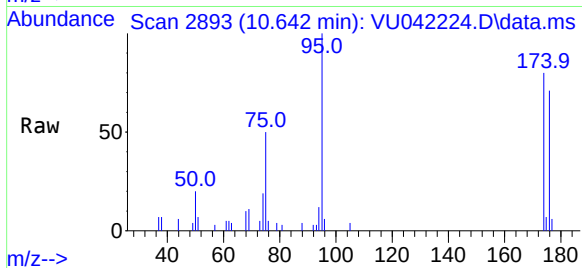




#57
4-Bromofluorobenzene
Concen: 1.07 ug/l
RT: 10.642 min Scan# 2893
Delta R.T. -0.000 min
Lab File: VU042224.D
Acq: 29 Jan 2021 15:23

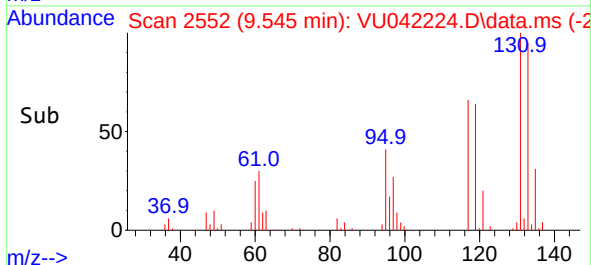
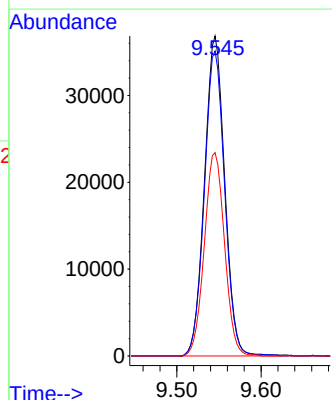
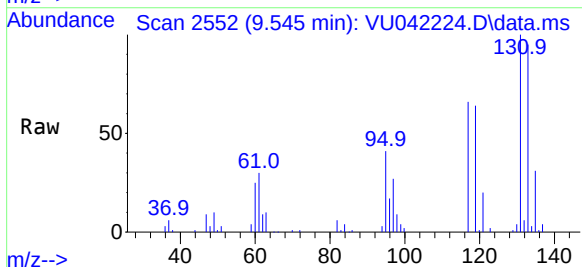
Instrument :
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ClientSampleId :
PT-UNRVOA-WS

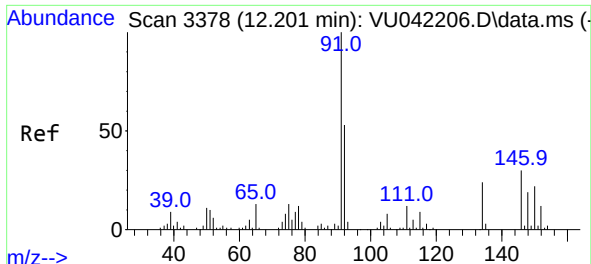
Tgt Ion: 95 Resp: 5023
Ion Ratio Lower Upper
95 100
174 80.8 69.6 104.4
176 77.0 65.5 98.3



#60
1,1,1,2-Tetrachloroethane
Concen: 18.05 ug/l
RT: 9.545 min Scan# 2552
Delta R.T. 0.003 min
Lab File: VU042224.D
Acq: 29 Jan 2021 15:23

Tgt Ion: 131 Resp: 61687
Ion Ratio Lower Upper
131 100
133 95.3 76.7 115.1
119 63.4 51.4 77.0

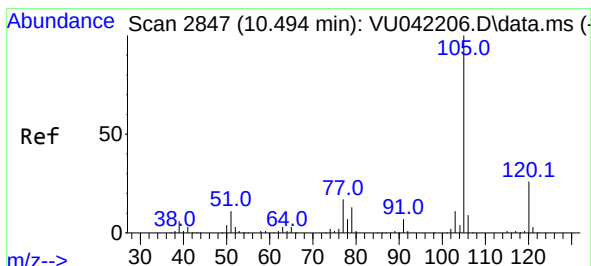
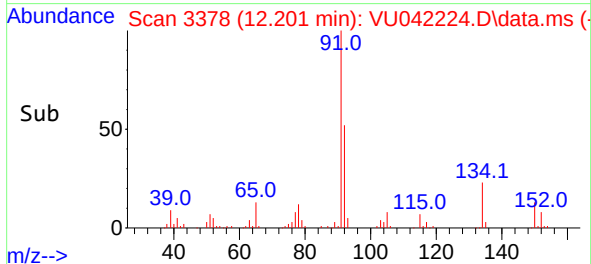
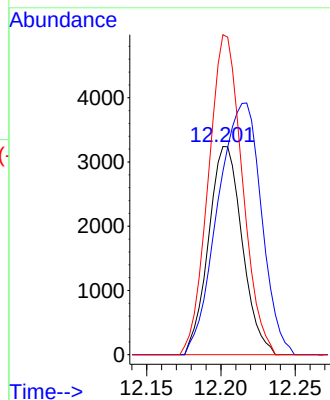
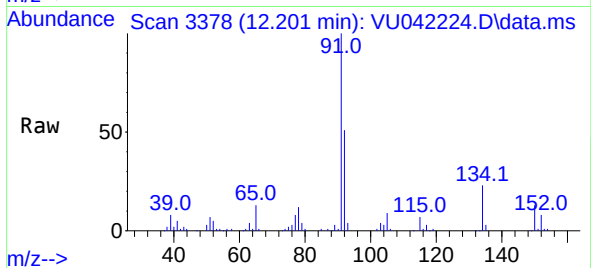




#68
1,2-Dichlorobenzene-d4
Concen: 1.07 ug/l
RT: 12.201 min Scan# 3378
Delta R.T. 0.000 min
Lab File: VU042224.D
Acq: 29 Jan 2021 15:23

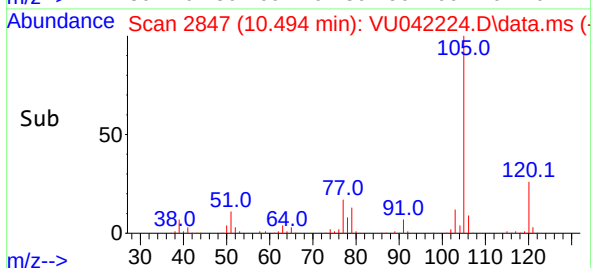
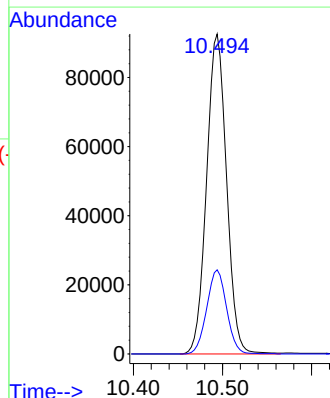
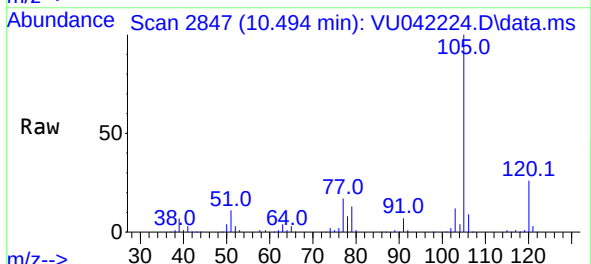
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

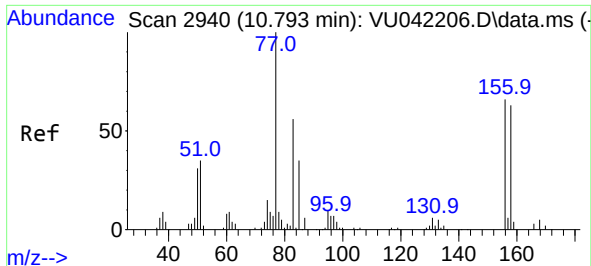
Tgt Ion:152 Resp: 5119
Ion Ratio Lower Upper
152 100
115 156.6 0.0 243.2
150 155.0 0.0 642.6



#69
Isopropylbenzene
Concen: 8.82 ug/l
RT: 10.494 min Scan# 2847
Delta R.T. -0.000 min
Lab File: VU042224.D
Acq: 29 Jan 2021 15:23

Tgt Ion:105 Resp: 143827
Ion Ratio Lower Upper
105 100
120 26.2 13.1 39.1

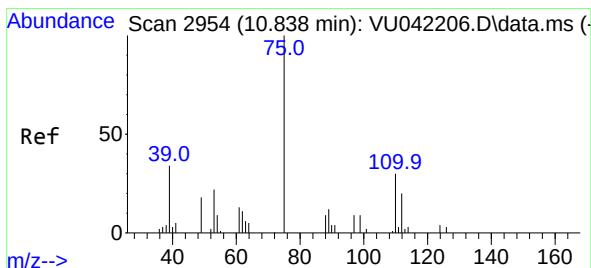
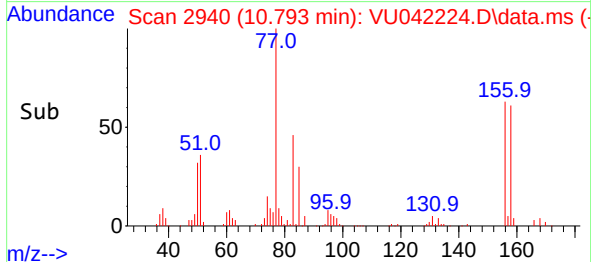
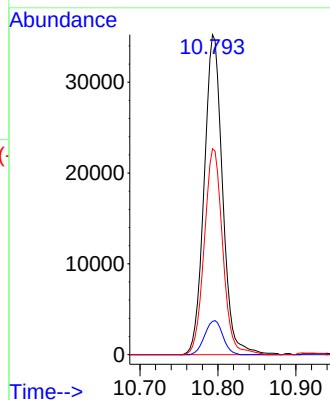
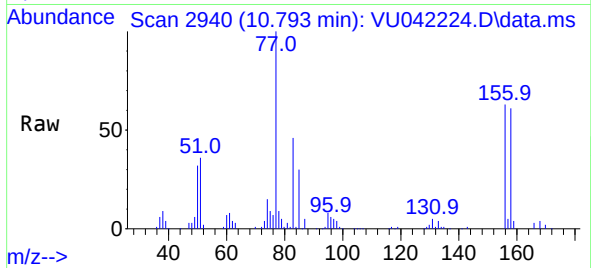




#70
1,1,2,2-Tetrachloroethane
Concen: 16.73 ug/l
RT: 10.793 min Scan# 2940
Delta R.T. -0.000 min
Lab File: VU042224.D
Acq: 29 Jan 2021 15:23

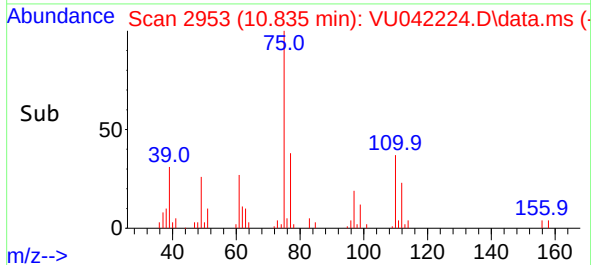
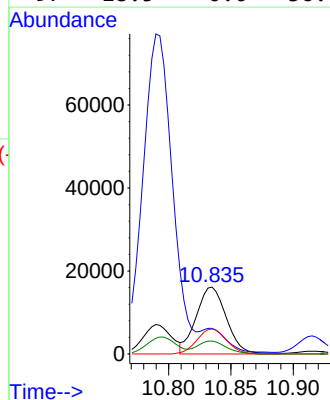
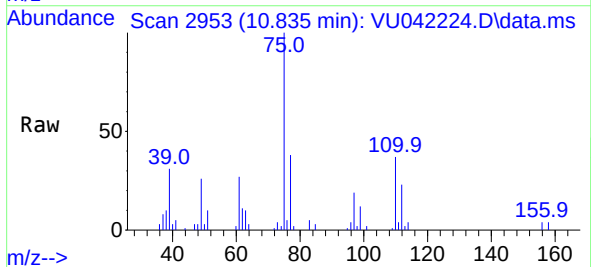
Tgt Ion: 83 Resp: 57766
Ion Ratio Lower Upper
83 100
131 10.5 8.1 12.1
85 64.3 51.5 77.3

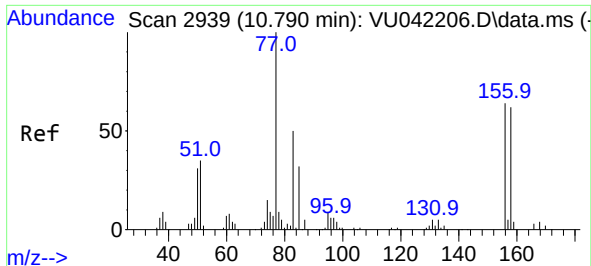
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS



#71
1,2,3-Trichloropropane
Concen: 9.96 ug/l
RT: 10.835 min Scan# 2953
Delta R.T. -0.003 min
Lab File: VU042224.D
Acq: 29 Jan 2021 15:23

Tgt Ion: 75 Resp: 27079
Ion Ratio Lower Upper
75 100
77 0.0 0.0 107.2
110 36.6 0.0 69.0
97 18.5 0.0 36.6

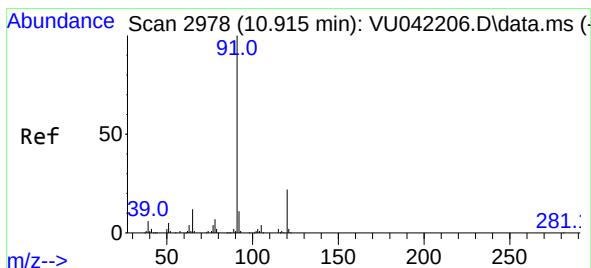
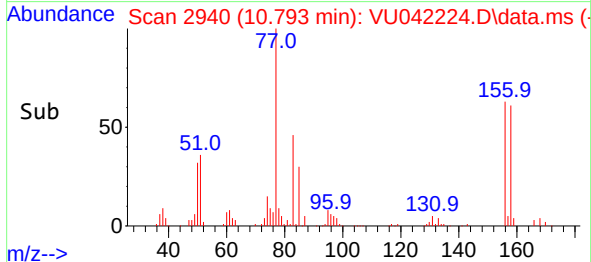
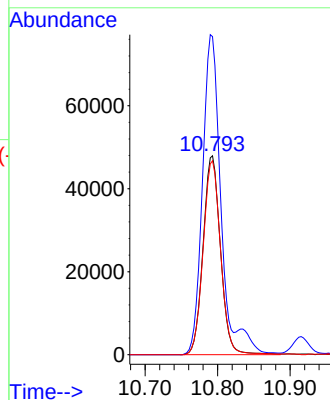
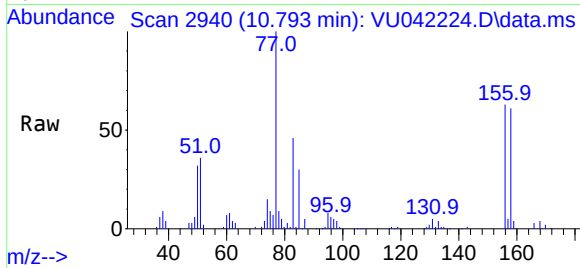




#72
Bromobenzene
Concen: 19.46 ug/l
RT: 10.793 min Scan# 2940
Delta R.T. 0.003 min
Lab File: VU042224.D
Acq: 29 Jan 2021 15:23

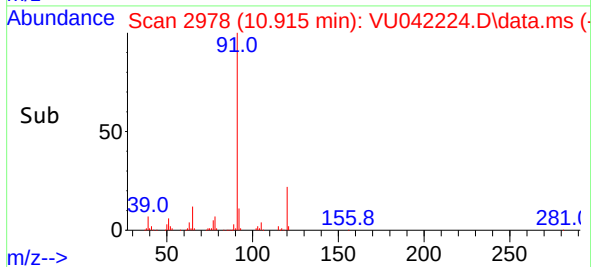
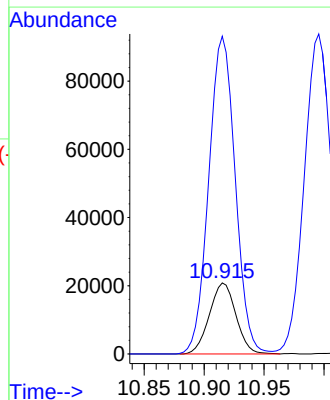
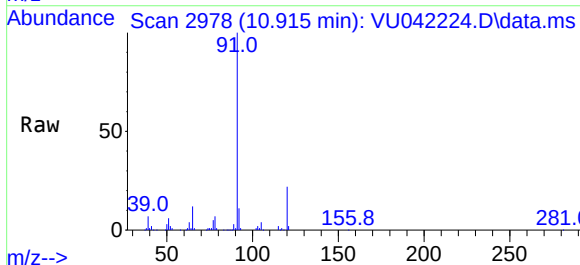
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

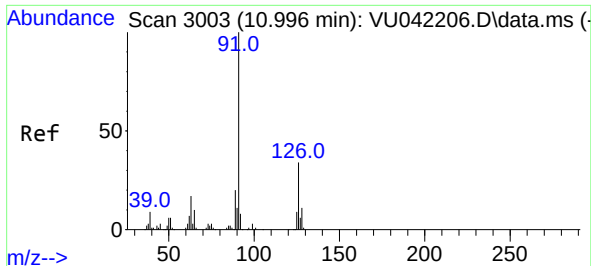
Tgt Ion:156 Resp: 80025
Ion Ratio Lower Upper
156 100
77 159.8 0.0 317.6
158 98.3 0.0 195.0



#73
n-propylbenzene
Concen: 7.37 ug/l
RT: 10.915 min Scan# 2978
Delta R.T. 0.000 min
Lab File: VU042224.D
Acq: 29 Jan 2021 15:23

Tgt Ion:120 Resp: 31993
Ion Ratio Lower Upper
120 100
91 447.0 355.1 532.7

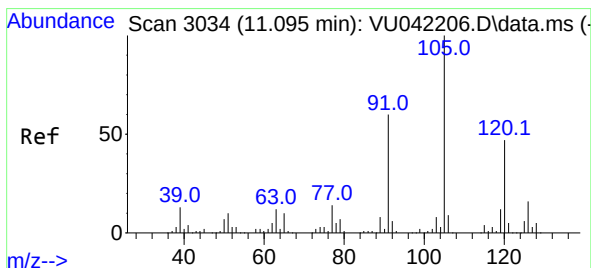
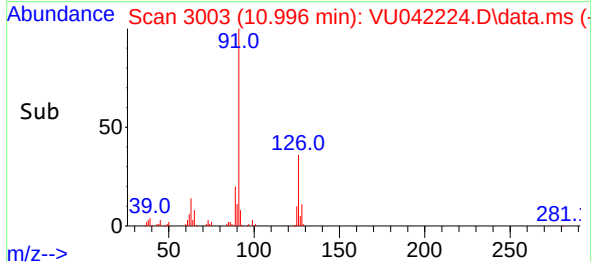
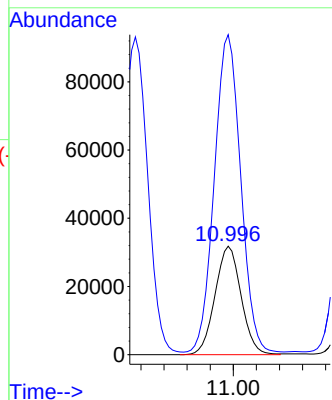
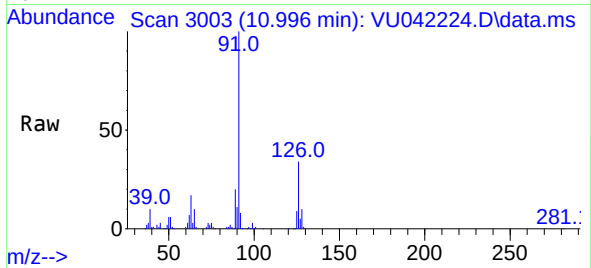




#74
2-Chlorotoluene
Concen: 12.87 ug/l
RT: 10.996 min Scan# 3003
Delta R.T. -0.000 min
Lab File: VU042224.D
Acq: 29 Jan 2021 15:23

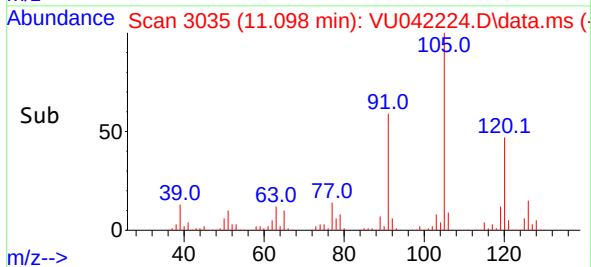
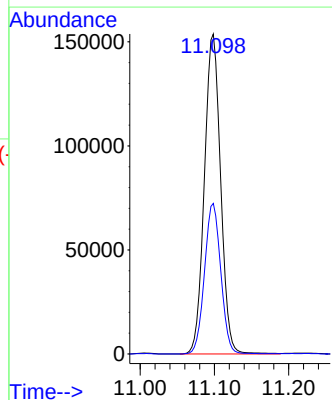
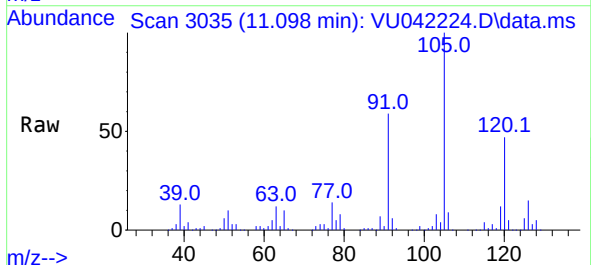
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

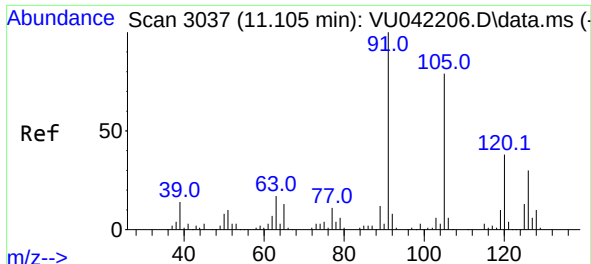
Tgt Ion:126 Resp: 49828
Ion Ratio Lower Upper
126 100
91 296.6 0.0 588.6



#75
1,3,5-Trimethylbenzene
Concen: 16.51 ug/l
RT: 11.098 min Scan# 3035
Delta R.T. 0.003 min
Lab File: VU042224.D
Acq: 29 Jan 2021 15:23

Tgt Ion:105 Resp: 233675
Ion Ratio Lower Upper
105 100
120 47.1 37.8 56.8

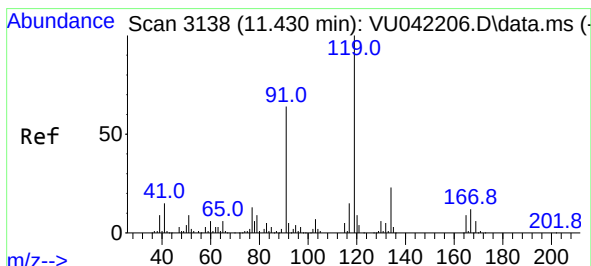
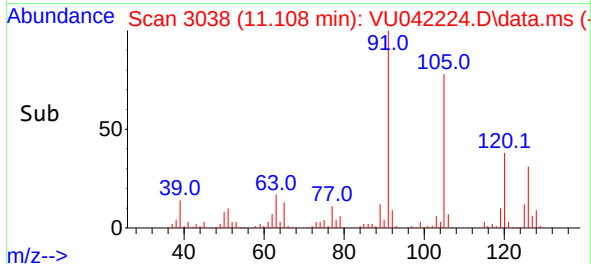
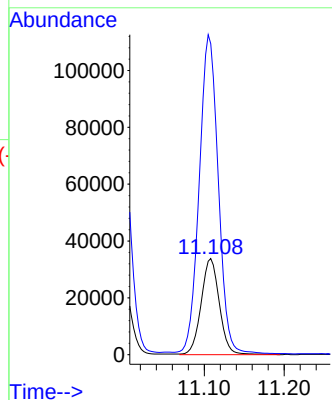
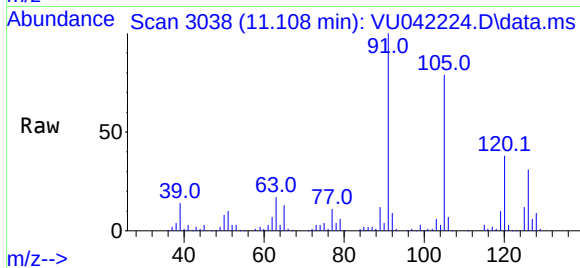




#76
4-Chlorotoluene
Concen: 13.68 ug/l
RT: 11.108 min Scan# 3038
Delta R.T. 0.003 min
Lab File: VU042224.D
Acq: 29 Jan 2021 15:23

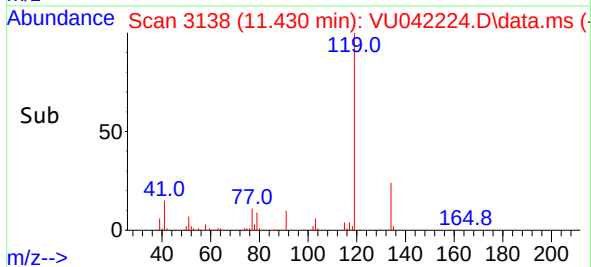
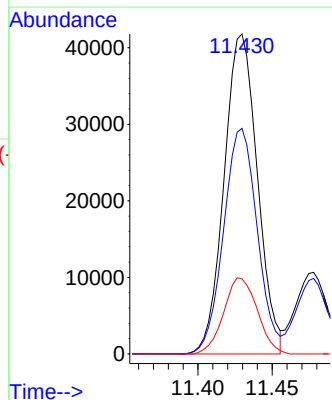
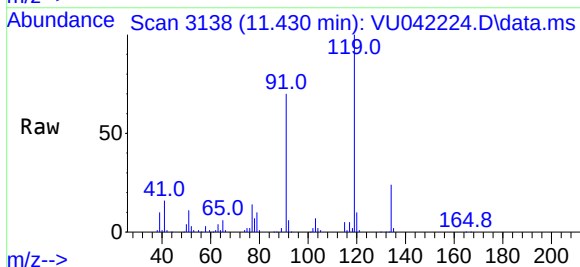
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

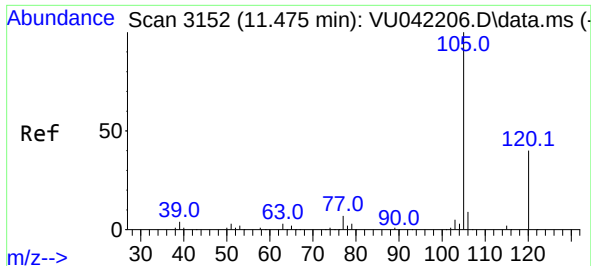
Tgt Ion:126 Resp: 53698
Ion Ratio Lower Upper
126 100
91 346.5 0.0 682.0



#77
tert-Butylbenzene
Concen: 4.66 ug/l
RT: 11.430 min Scan# 3138
Delta R.T. -0.000 min
Lab File: VU042224.D
Acq: 29 Jan 2021 15:23

Tgt Ion:119 Resp: 65321
Ion Ratio Lower Upper
119 100
91 71.2 30.3 90.9
134 24.0 18.1 27.1

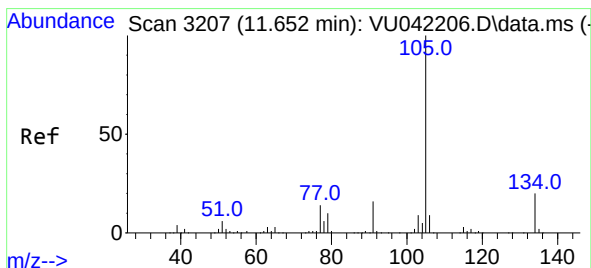
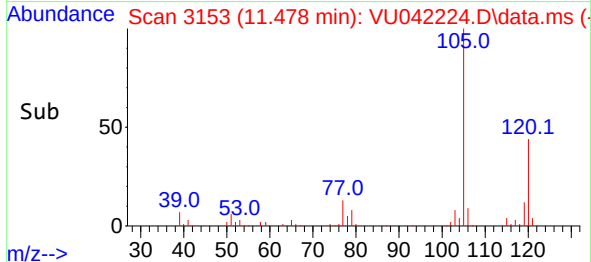
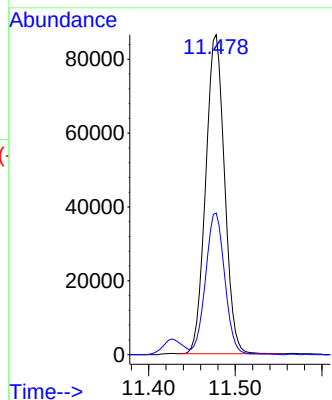
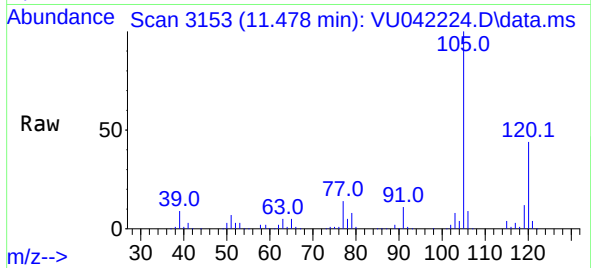




#78
1,2,4-Trimethylbenzene
Concen: 9.18 ug/l
RT: 11.478 min Scan# 3153
Delta R.T. 0.003 min
Lab File: VU042224.D
Acq: 29 Jan 2021 15:23

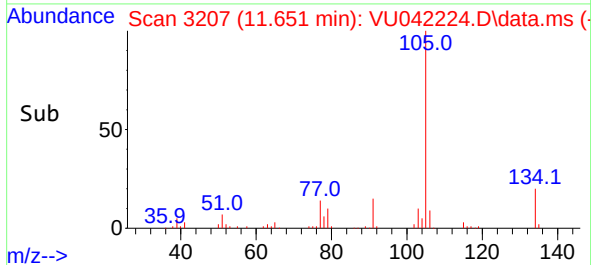
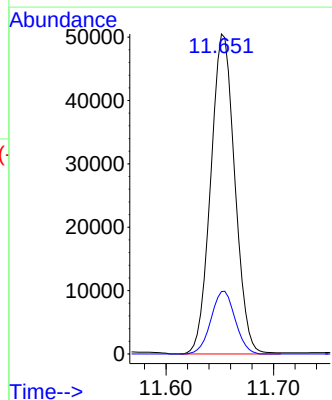
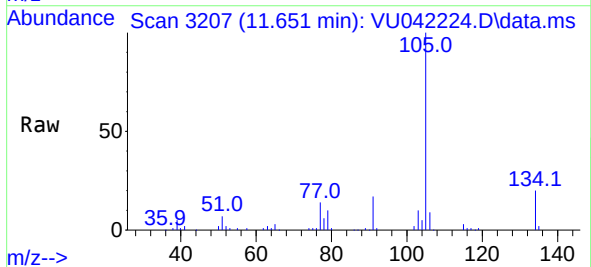
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

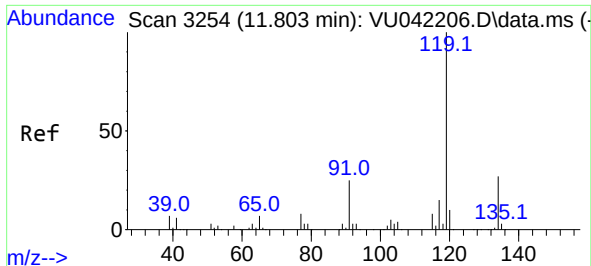
Tgt Ion:105 Resp: 130531
Ion Ratio Lower Upper
105 100
120 45.6 22.5 67.5



#79
sec-Butylbenzene
Concen: 4.36 ug/l
RT: 11.651 min Scan# 3207
Delta R.T. -0.001 min
Lab File: VU042224.D
Acq: 29 Jan 2021 15:23

Tgt Ion:105 Resp: 78730
Ion Ratio Lower Upper
105 100
134 19.6 16.2 24.2

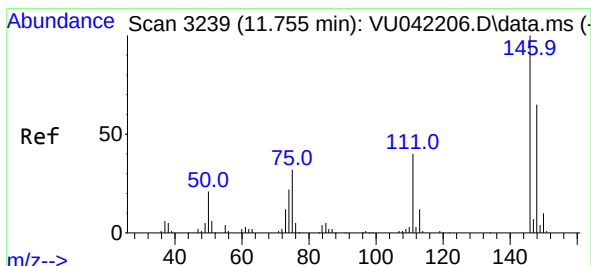
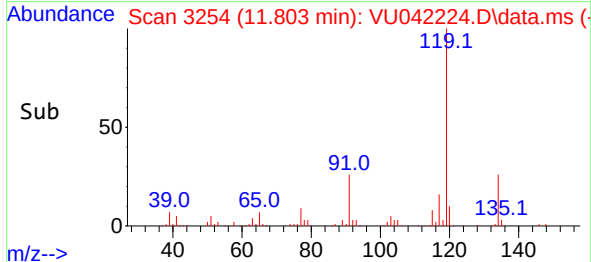
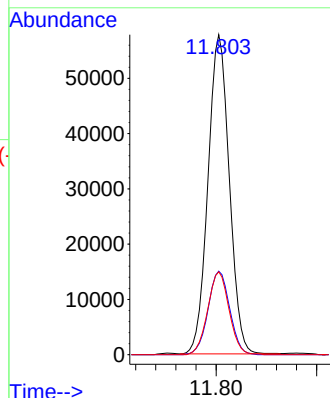
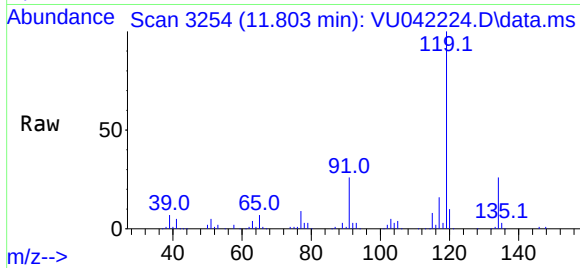




#81
p-Isopropyltoluene
Concen: 5.54 ug/l
RT: 11.803 min Scan# 3254
Delta R.T. -0.000 min
Lab File: VU042224.D
Acq: 29 Jan 2021 15:23

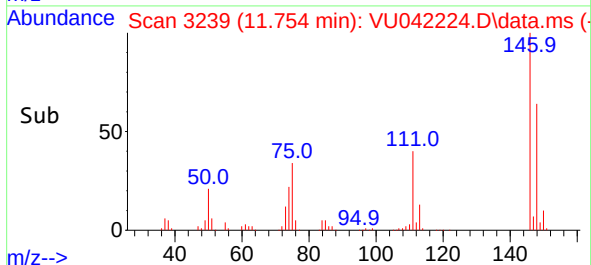
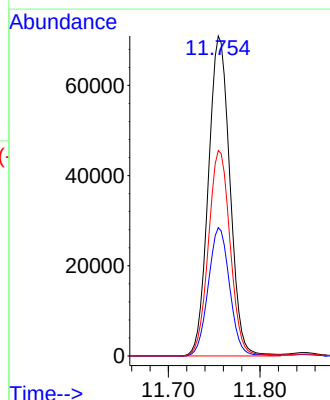
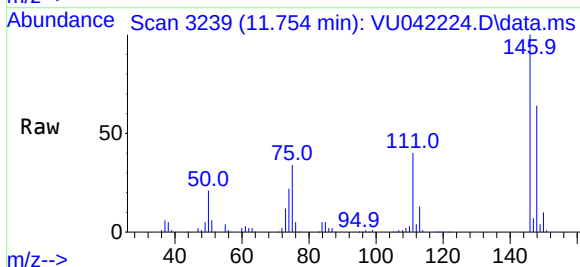
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

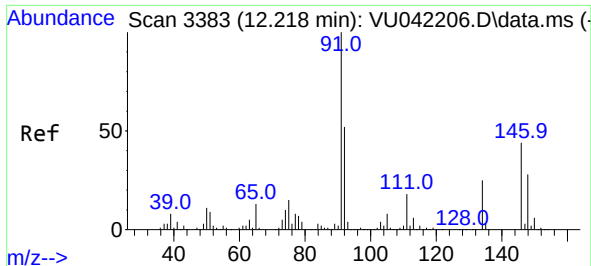
Tgt Ion:	119	Resp:	84942
Ion Ratio	Lower	Upper	
119	100		
134	26.5	21.5	32.3
91	26.0	20.2	30.4



#82
1,3-Dichlorobenzene
Concen: 14.92 ug/l
RT: 11.754 min Scan# 3239
Delta R.T. -0.001 min
Lab File: VU042224.D
Acq: 29 Jan 2021 15:23

Tgt Ion:	146	Resp:	115831
Ion Ratio	Lower	Upper	
146	100		
111	39.9	32.1	48.1
148	64.9	51.5	77.3



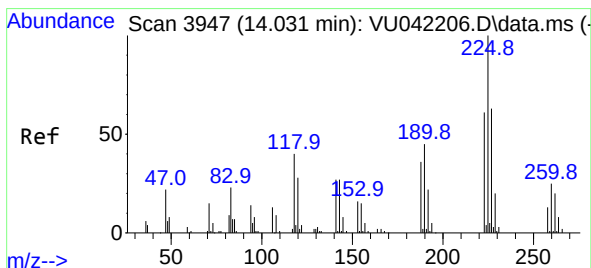
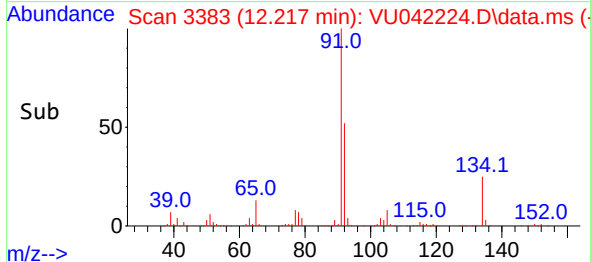
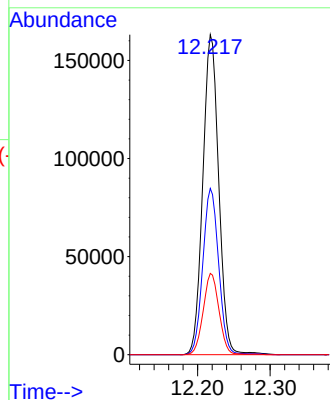
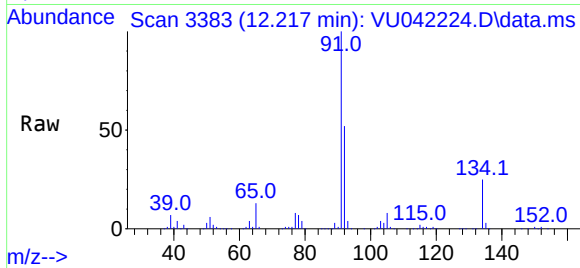


#84
n-Butylbenzene
Concen: 16.98 ug/l
RT: 12.217 min Scan# 3383
Delta R.T. -0.001 min
Lab File: VU042224.D
Acq: 29 Jan 2021 15:23

Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

Tgt Ion: 91 Resp: 248888

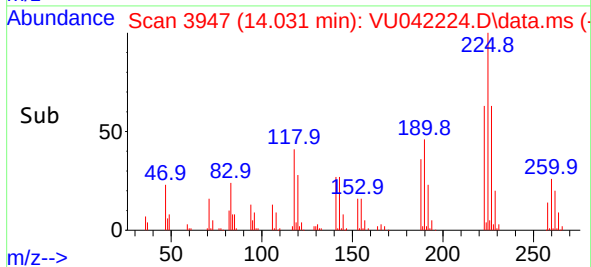
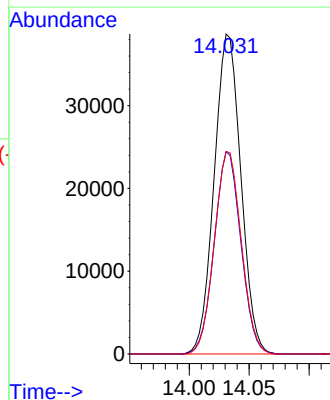
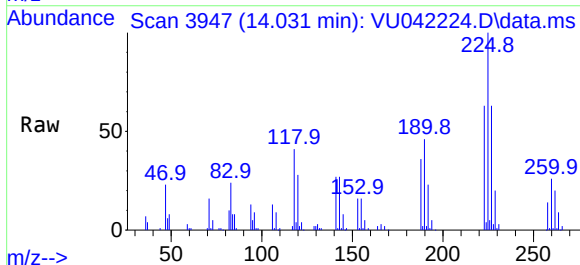
Ion	Ratio	Lower	Upper
91	100		
92	51.8	41.8	62.8
134	25.1	20.3	30.5

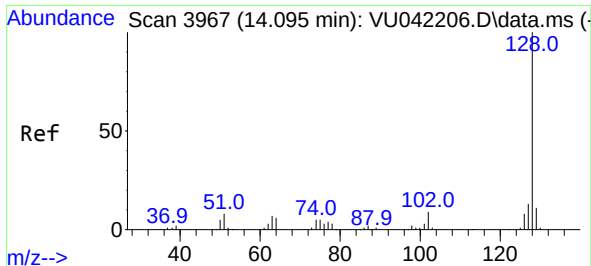


#88
Hexachlorobutadiene
Concen: 18.29 ug/l
RT: 14.031 min Scan# 3947
Delta R.T. -0.000 min
Lab File: VU042224.D
Acq: 29 Jan 2021 15:23

Tgt Ion: 225 Resp: 59874

Ion	Ratio	Lower	Upper
225	100		
223	62.9	49.8	74.6
227	63.8	50.6	76.0

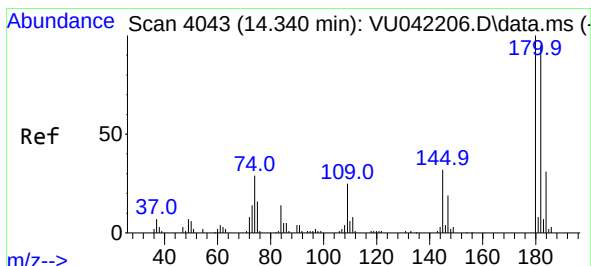
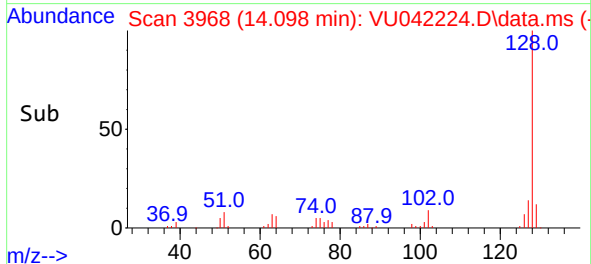
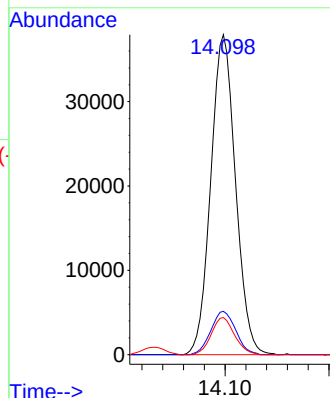
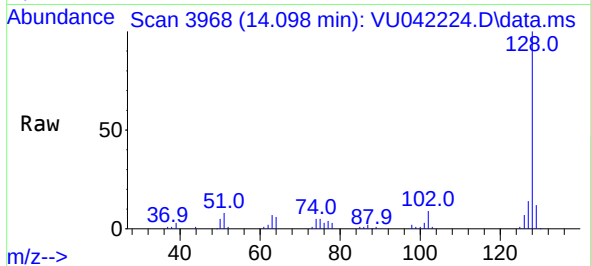




#89
Naphthalene
Concen: 5.77 ug/l
RT: 14.098 min Scan# 3968
Delta R.T. 0.003 min
Lab File: VU042224.D
Acq: 29 Jan 2021 15:23

Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

Tgt Ion:128	Resp:	62664
Ion Ratio	Lower	Upper
128	100	
127	13.7	11.0 16.4
129	10.9	8.9 13.3



#90
1,2,3-Trichlorobenzene
Concen: 20.19 ug/l
RT: 14.343 min Scan# 4044
Delta R.T. 0.003 min
Lab File: VU042224.D
Acq: 29 Jan 2021 15:23

Tgt Ion:180	Resp:	106705
Ion Ratio	Lower	Upper
180	100	
182	95.9	76.5 114.7
145	31.0	25.4 38.0

