

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU072121\
 Data File : VU044380.D
 Acq On : 21 Jul 2021 14:32
 Operator : SY/MD
 Sample : M3035-08DL 5X
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WSDL

Quant Time: Jul 22 05:02:30 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U071621DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Fri Jul 16 14:36:39 2021
 Response via : Initial Calibration

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

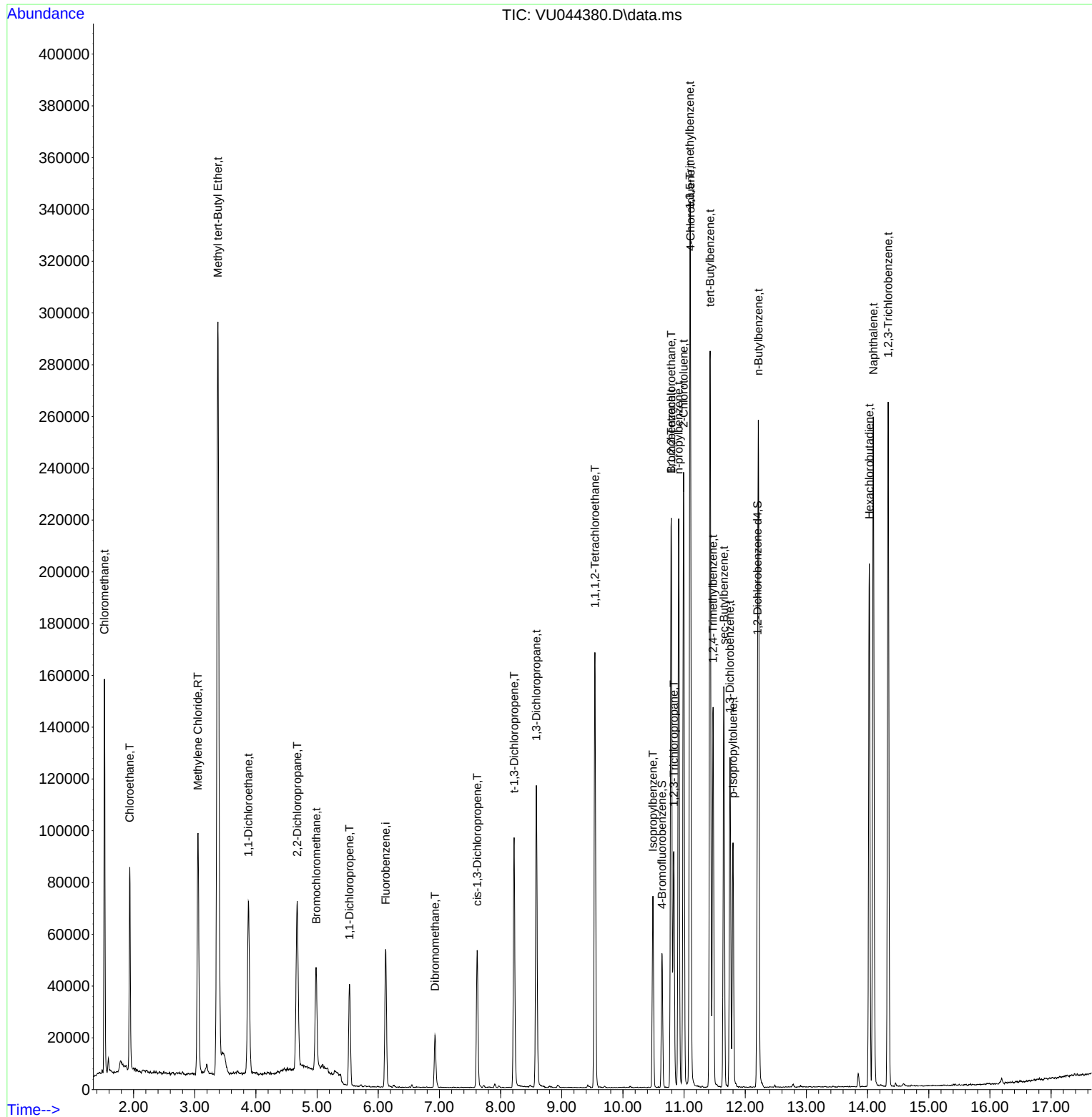
Internal Standards						
1) Fluorobenzene	6.121	96	51130	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.639	95	18345	0.889	ug/l	0.00
Spiked Amount 1.000			Recovery	=	89.000%	
68) 1,2-Dichlorobenzene-d4	12.201	152	19037	0.946	ug/l	0.00
Spiked Amount 1.000			Recovery	=	95.000%	
Target Compounds						
						Qvalue
3) Chloromethane	1.523	50	106418	5.483	ug/l	99
6) Chloroethane	1.938	64	51666	4.334	ug/l	100
15) Methylene Chloride	3.051	84	44034	2.376	ug/l	94
17) 1,1-Dichloroethane	3.877	63	77688	2.864	ug/l	98
21) 2,2-Dichloropropane	4.674	77	48324	2.173	ug/l	97
25) Methyl tert-Butyl Ether	3.378	73	341381	9.366	ug/l	94
26) Bromochloromethane	4.986	128	11793	1.751	ug/l	98
29) 1,1-Dichloropropene	5.529	75	22098	1.062	ug/l	98
43) Dibromomethane	6.928	93	8758	1.104	ug/l	96
50) t-1,3-Dichloropropene	8.221	75	55392	2.833	ug/l	98
51) cis-1,3-Dichloropropene	7.616	75	32730	1.419	ug/l	95
53) 1,3-Dichloropropane	8.584	76	71960	3.350	ug/l	98
60) 1,1,1,2-Tetrachloroethane	9.542	131	43743	3.265	ug/l	97
69) Isopropylbenzene	10.491	105	48894	0.690	ug/l	99
70) 1,1,2,2-Tetrachloroethane	10.790	83	17000	1.102	ug/l	96
71) 1,2,3-Trichloropropane	10.832	75	39733	3.003	ug/l	81
72) Bromobenzene	10.790	156	52012	3.169	ug/l	92
73) n-propylbenzene	10.912	120	36771	1.925	ug/l	88
74) 2-Chlorotoluene	10.992	126	43134	2.632	ug/l	86
75) 1,3,5-Trimethylbenzene	11.095	105	91687	1.530	ug/l	99
76) 4-Chlorotoluene	11.105	126	40243	2.363	ug/l	99
77) tert-Butylbenzene	11.426	119	135697	2.311	ug/l	91
78) 1,2,4-Trimethylbenzene	11.475	105	80265	1.320	ug/l	100
79) sec-Butylbenzene	11.651	105	106587	1.333	ug/l	98
81) p-Isopropyltoluene	11.799	119	55123	0.832	ug/l	98
82) 1,3-Dichlorobenzene	11.751	146	51281	1.573	ug/l	98
84) n-Butylbenzene	12.214	91	130053	2.006	ug/l	99
88) Hexachlorobutadiene	14.028	225	35171	3.253	ug/l	99
89) Naphthalene	14.095	128	219906	4.921	ug/l	100
90) 1,2,3-Trichlorobenzene	14.336	180	81390	4.012	ug/l	97

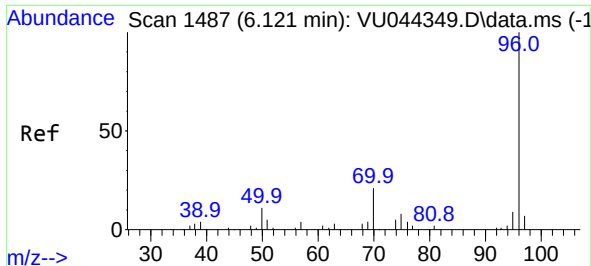
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
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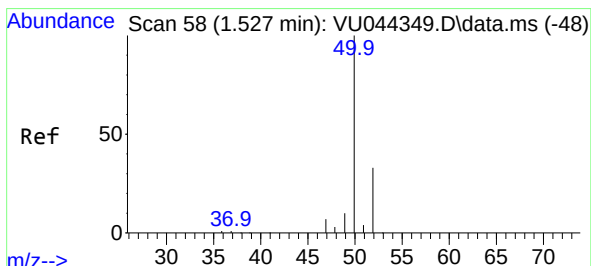
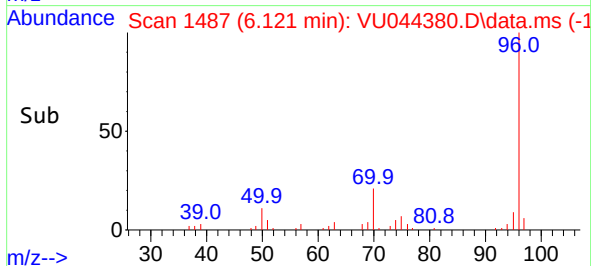
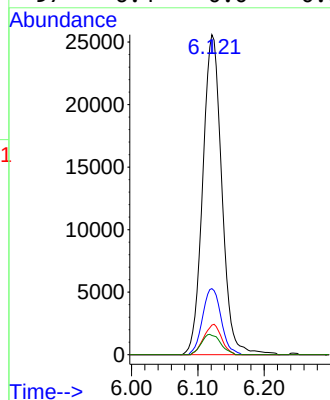
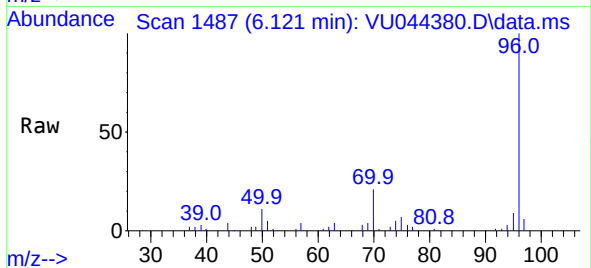


#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.121 min Scan# 1487
Delta R.T. 0.000 min
Lab File: VU044380.D
Acq: 21 Jul 2021 14:32

Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

Tgt Ion: 96 Resp: 51130

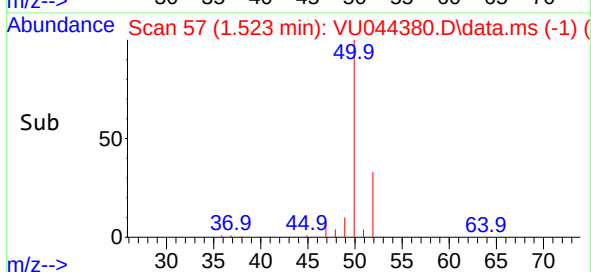
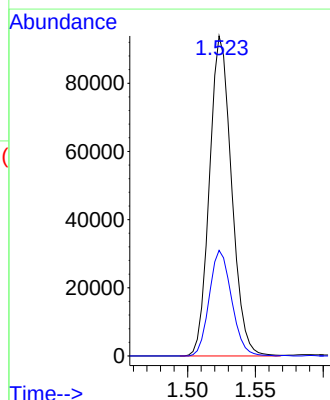
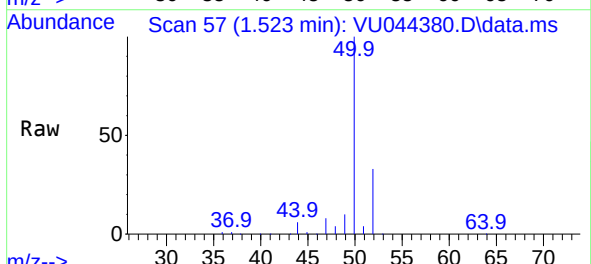
Ion	Ratio	Lower	Upper
96	100		
70	20.1	16.2	24.2
95	8.8	7.3	10.9
97	6.4	0.0	0.0

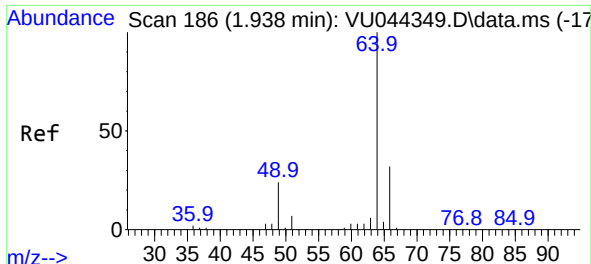


#3
Chloromethane
Concen: 5.483 ug/l
RT: 1.523 min Scan# 57
Delta R.T. -0.003 min
Lab File: VU044380.D
Acq: 21 Jul 2021 14:32

Tgt Ion: 50 Resp: 106418

Ion	Ratio	Lower	Upper
50	100		
52	33.0	26.7	40.1

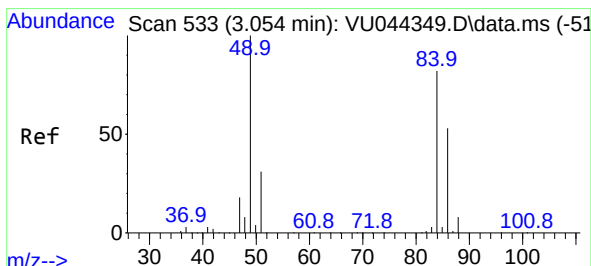
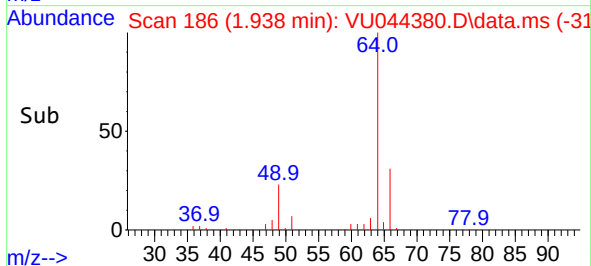
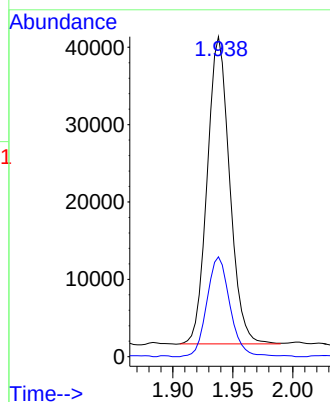
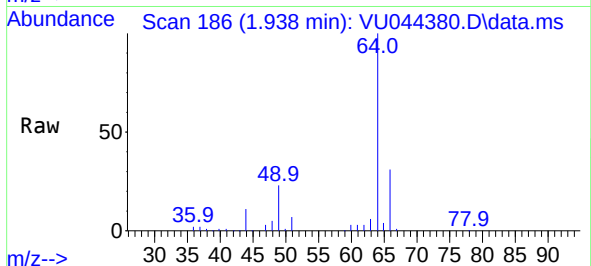




#6
Chloroethane
Concen: 4.334 ug/l
RT: 1.938 min Scan# 186
Delta R.T. -0.000 min
Lab File: VU044380.D
Acq: 21 Jul 2021 14:32

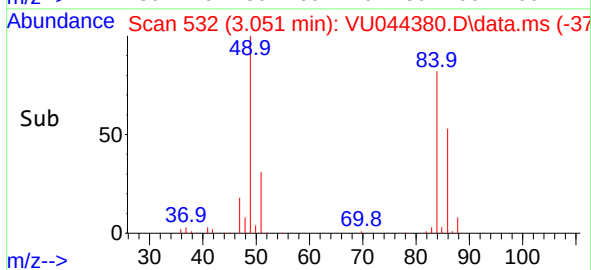
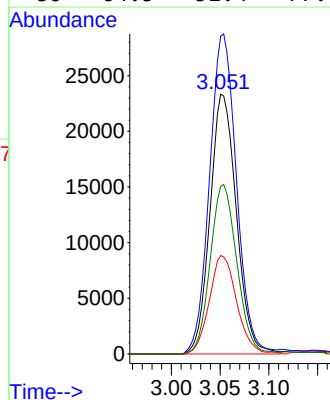
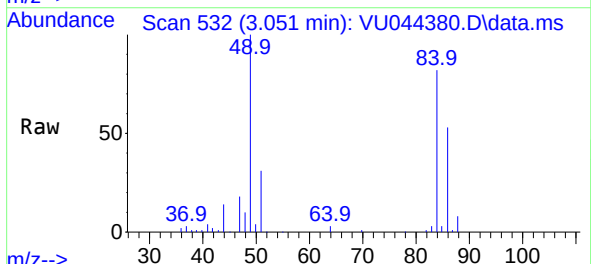
Instrument :
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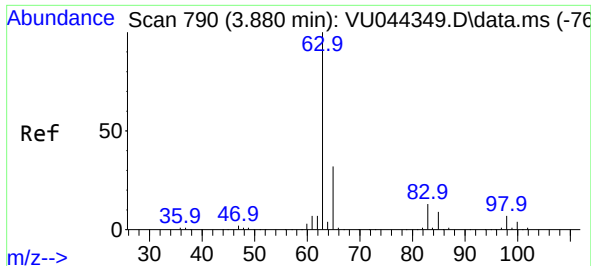
Tgt Ion: 64 Resp: 51666
Ion Ratio Lower Upper
64 100
66 32.5 26.1 39.1



#15
Methylene Chloride
Concen: 2.376 ug/l
RT: 3.051 min Scan# 532
Delta R.T. -0.003 min
Lab File: VU044380.D
Acq: 21 Jul 2021 14:32

Tgt Ion: 84 Resp: 44034
Ion Ratio Lower Upper
84 100
49 122.4 106.3 159.5
51 37.9 0.0 81.8
86 64.5 51.4 77.0

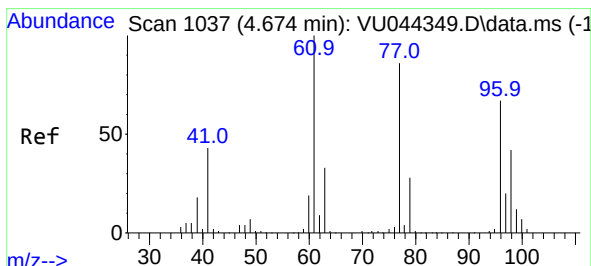
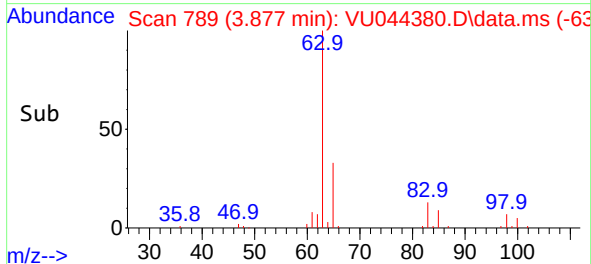
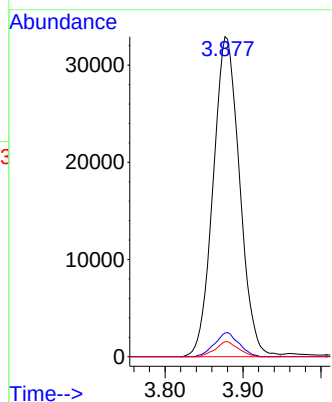
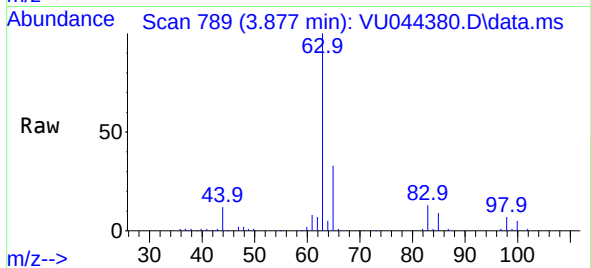




#17
1,1-Dichloroethane
Concen: 2.864 ug/l
RT: 3.877 min Scan# 789
Delta R.T. -0.003 min
Lab File: VU044380.D
Acq: 21 Jul 2021 14:32

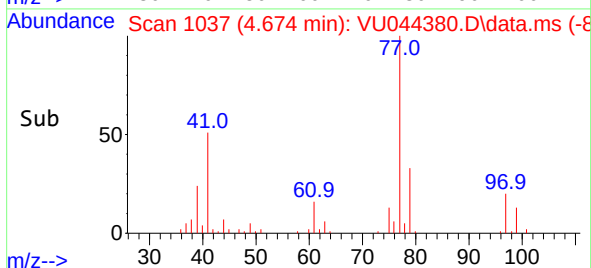
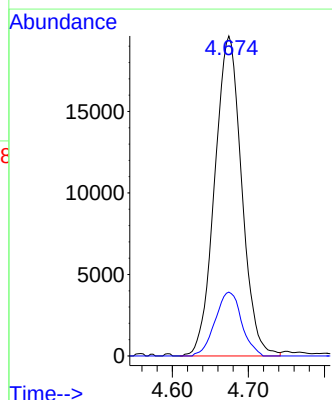
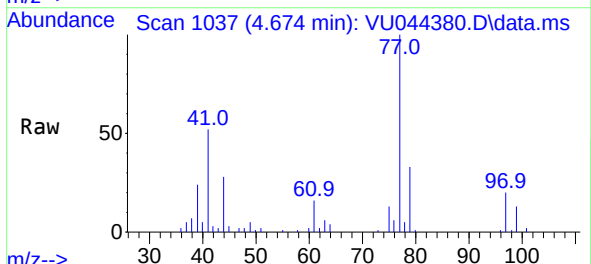
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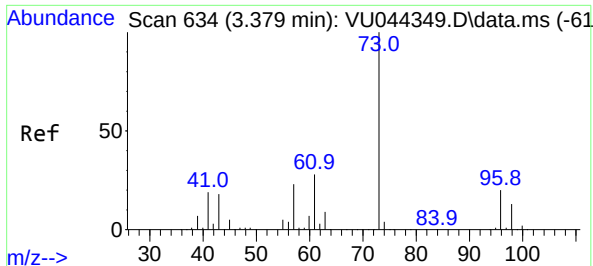
Tgt Ion: 63 Resp: 77688
Ion Ratio Lower Upper
63 100
98 7.4 3.5 10.5
100 4.7 2.0 5.8



#21
2,2-Dichloropropane
Concen: 2.173 ug/l
RT: 4.674 min Scan# 1037
Delta R.T. -0.000 min
Lab File: VU044380.D
Acq: 21 Jul 2021 14:32

Tgt Ion: 77 Resp: 48324
Ion Ratio Lower Upper
77 100
97 19.6 16.8 25.2

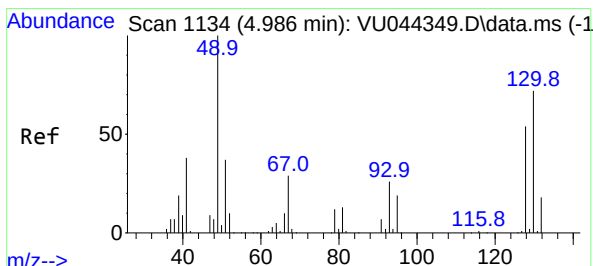
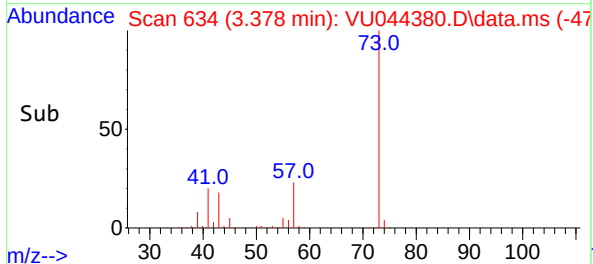
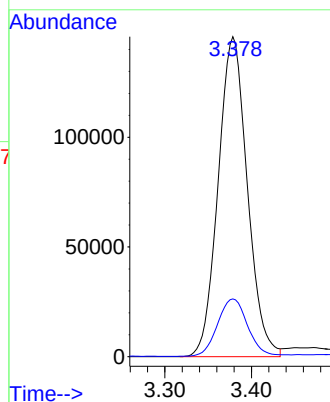
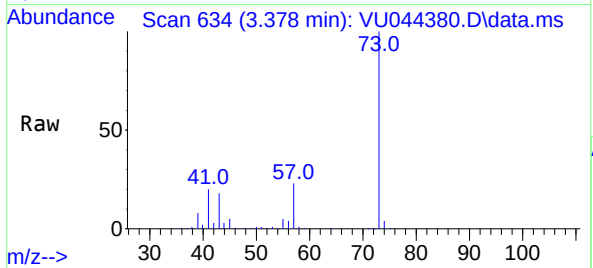




#25
Methyl tert-Butyl Ether
Concen: 9.366 ug/l
RT: 3.378 min Scan# 634
Delta R.T. -0.000 min
Lab File: VU044380.D
Acq: 21 Jul 2021 14:32

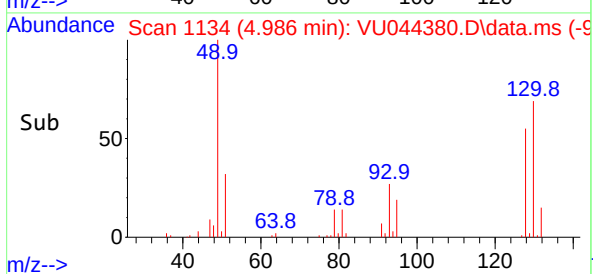
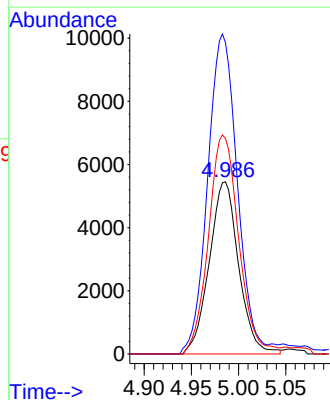
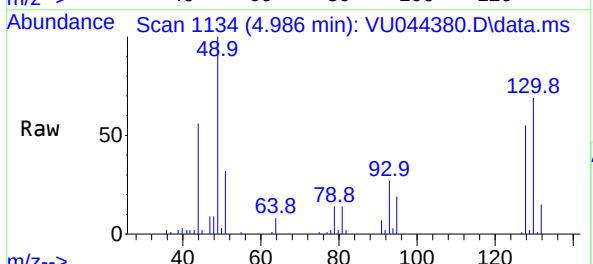
Instrument :
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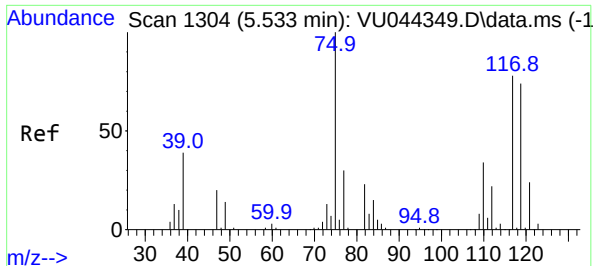
Tgt Ion: 73 Resp: 341381
Ion Ratio Lower Upper
73 100
43 18.7 17.3 25.9



#26
Bromochloromethane
Concen: 1.751 ug/l
RT: 4.986 min Scan# 1134
Delta R.T. -0.000 min
Lab File: VU044380.D
Acq: 21 Jul 2021 14:32

Tgt Ion: 128 Resp: 11793
Ion Ratio Lower Upper
128 100
49 186.7 0.0 364.2
130 131.1 103.5 155.3

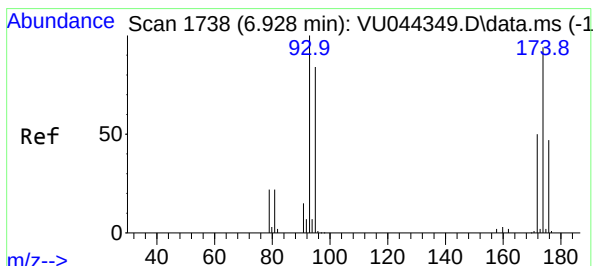
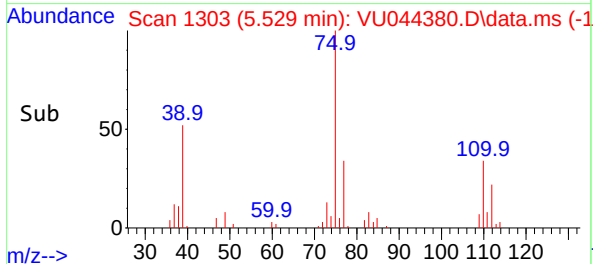
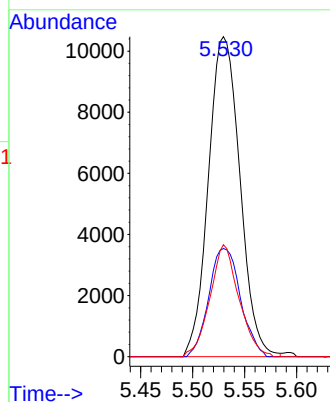
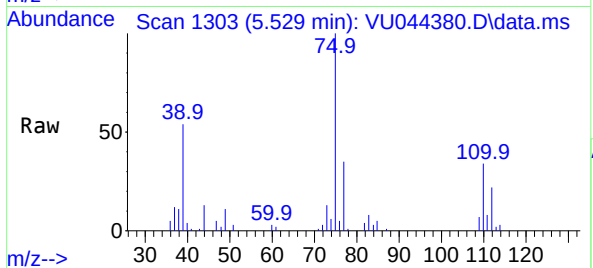




#29
1,1-Dichloropropene
Concen: 1.062 ug/l
RT: 5.529 min Scan# 1303
Delta R.T. -0.003 min
Lab File: VU044380.D
Acq: 21 Jul 2021 14:32

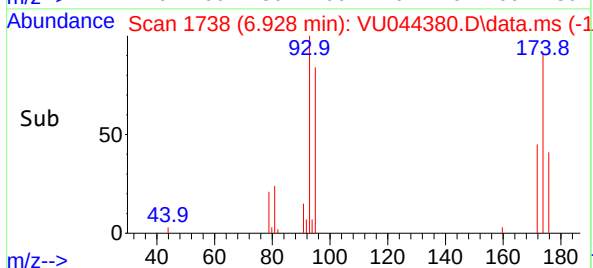
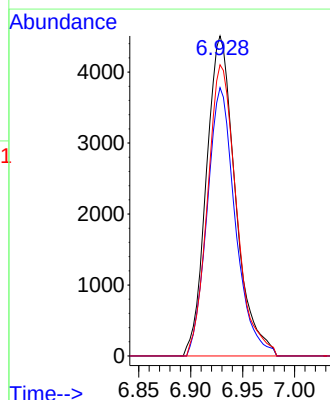
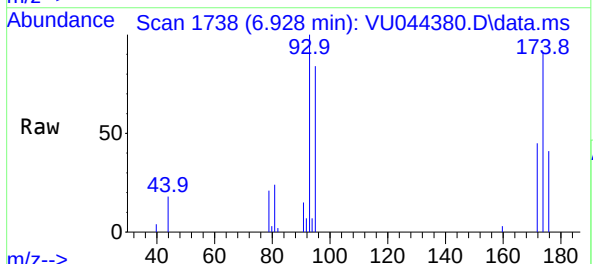
Instrument :
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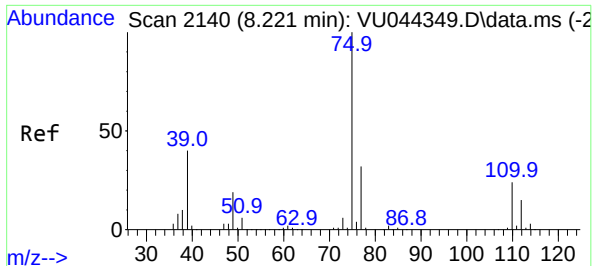
Tgt Ion: 75 Resp: 22098
Ion Ratio Lower Upper
75 100
110 34.0 17.3 51.9
77 32.2 24.6 37.0



#43
Dibromomethane
Concen: 1.104 ug/l
RT: 6.928 min Scan# 1738
Delta R.T. -0.000 min
Lab File: VU044380.D
Acq: 21 Jul 2021 14:32

Tgt Ion: 93 Resp: 8758
Ion Ratio Lower Upper
93 100
95 81.1 65.2 97.8
174 90.2 78.2 117.4

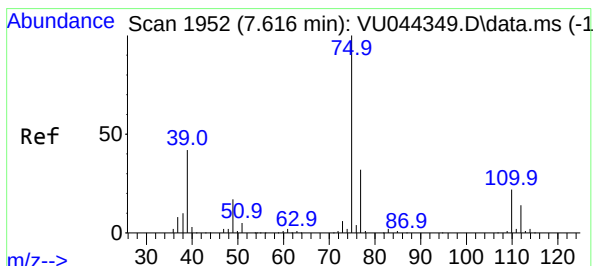
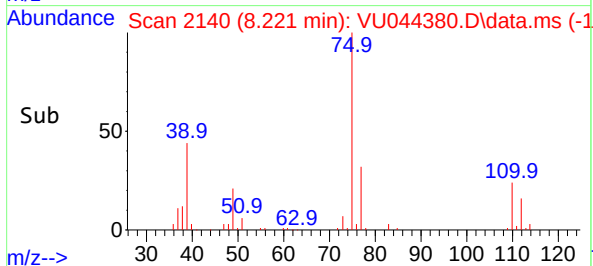
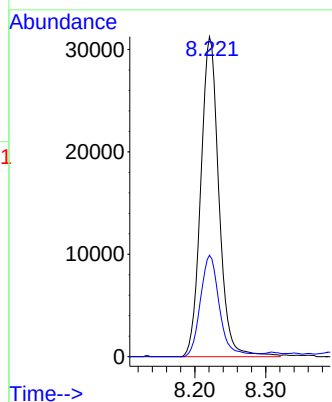
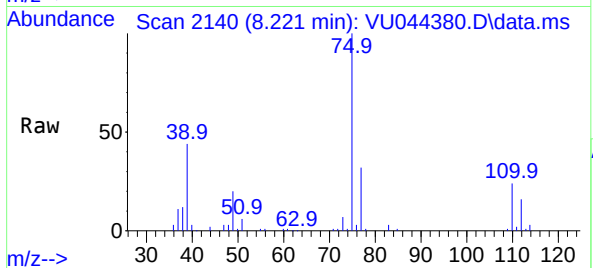




#50
t-1,3-Dichloropropene
Concen: 2.833 ug/l
RT: 8.221 min Scan# 2140
Delta R.T. -0.000 min
Lab File: VU044380.D
Acq: 21 Jul 2021 14:32

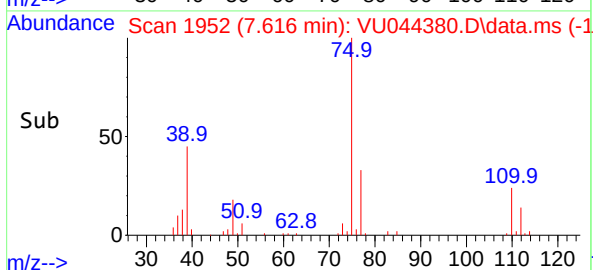
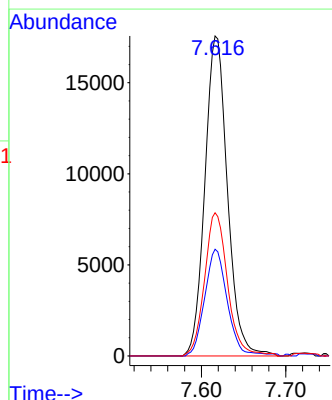
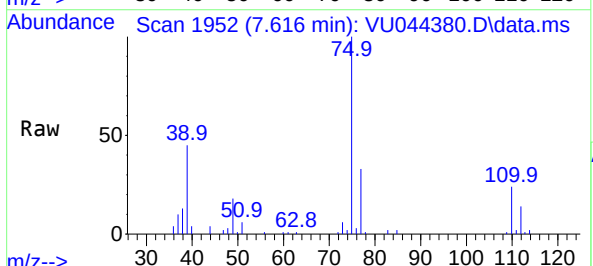
Tgt Ion: 75 Resp: 55392
Ion Ratio Lower Upper
75 100
77 31.7 26.2 39.2

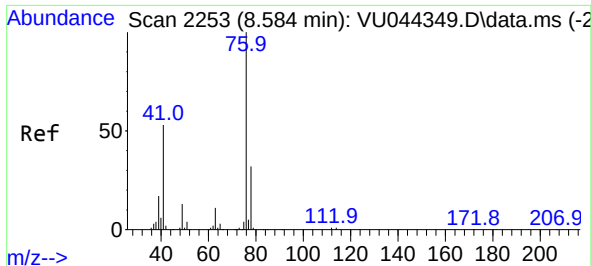
Instrument :
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#51
cis-1,3-Dichloropropene
Concen: 1.419 ug/l
RT: 7.616 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VU044380.D
Acq: 21 Jul 2021 14:32

Tgt Ion: 75 Resp: 32730
Ion Ratio Lower Upper
75 100
77 33.4 24.3 36.5
39 44.8 38.5 57.7

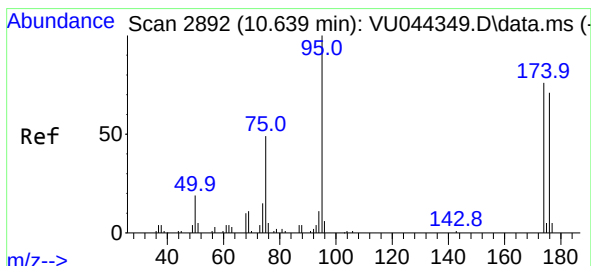
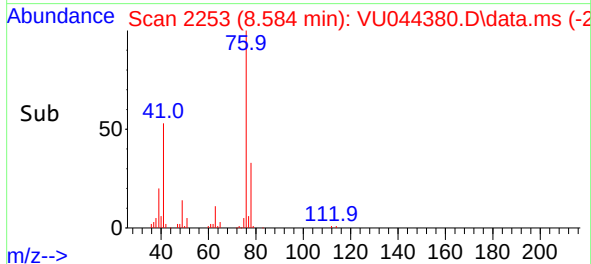
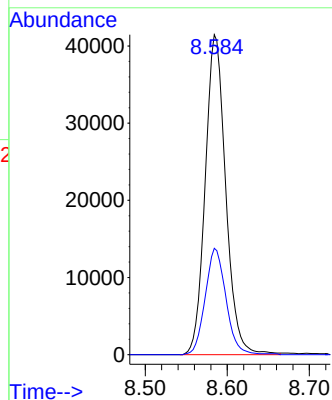
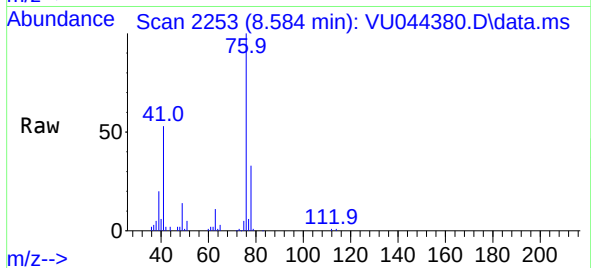




#53
1,3-Dichloropropane
Concen: 3.350 ug/l
RT: 8.584 min Scan# 2253
Delta R.T. -0.000 min
Lab File: VU044380.D
Acq: 21 Jul 2021 14:32

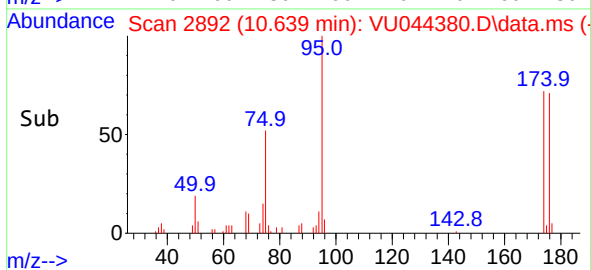
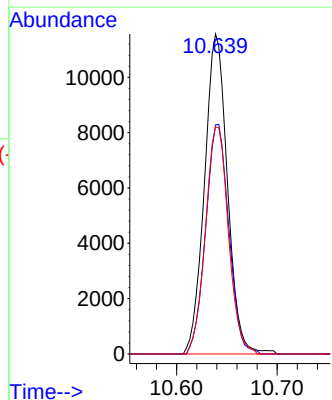
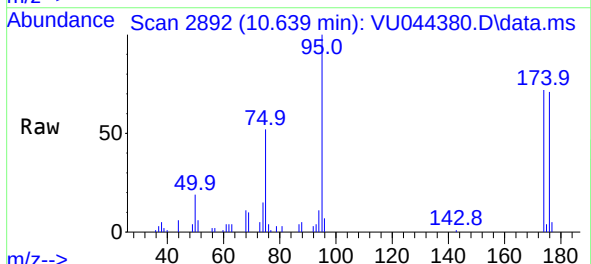
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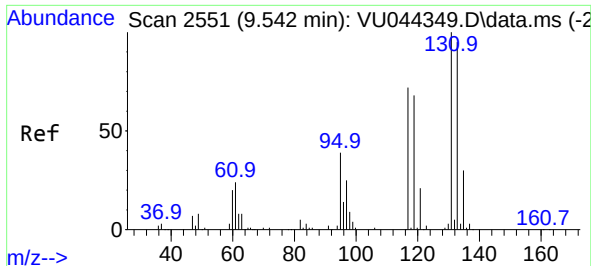
Tgt Ion: 76 Resp: 71960
Ion Ratio Lower Upper
76 100
78 33.7 25.9 38.9



#57
4-Bromofluorobenzene
Concen: 0.889 ug/l
RT: 10.639 min Scan# 2892
Delta R.T. -0.000 min
Lab File: VU044380.D
Acq: 21 Jul 2021 14:32

Tgt Ion: 95 Resp: 18345
Ion Ratio Lower Upper
95 100
174 72.4 62.2 93.2
176 71.0 60.3 90.5

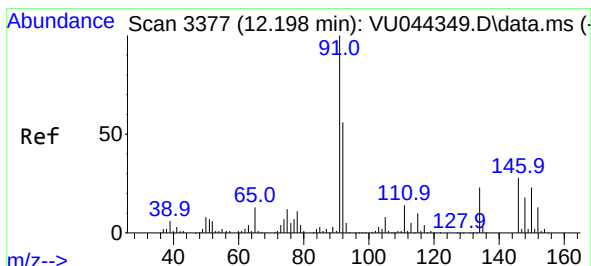
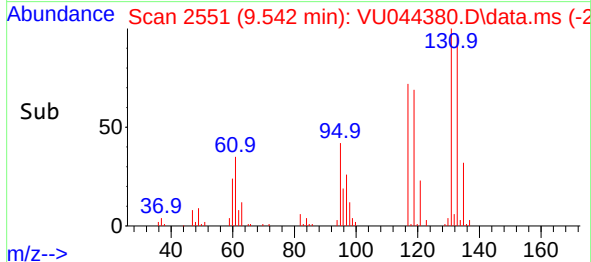
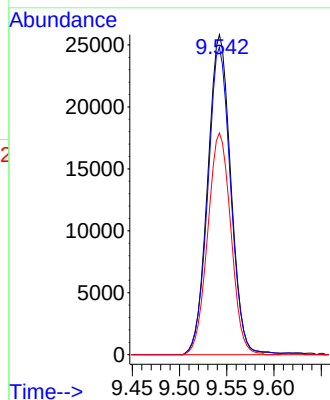
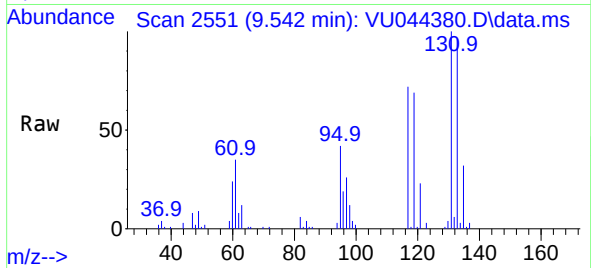




#60
1,1,1,2-Tetrachloroethane
Concen: 3.265 ug/l
RT: 9.542 min Scan# 2551
Delta R.T. -0.000 min
Lab File: VU044380.D
Acq: 21 Jul 2021 14:32

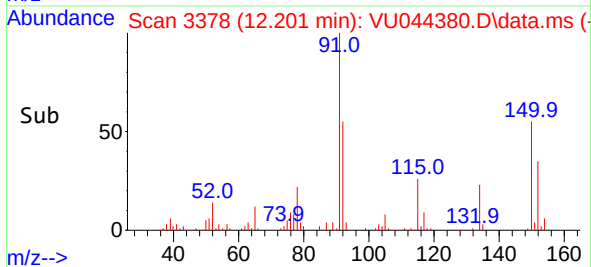
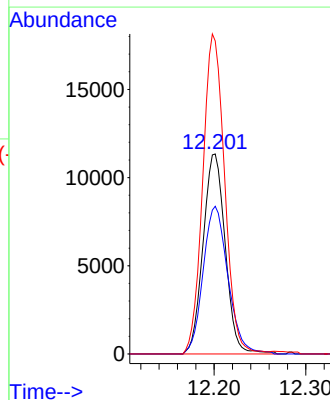
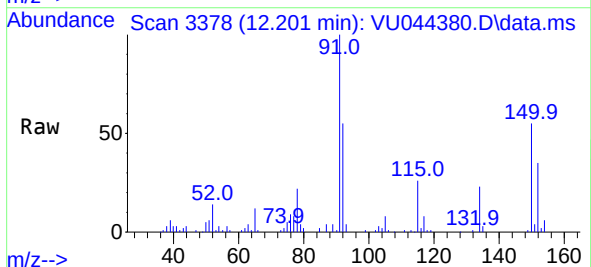
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

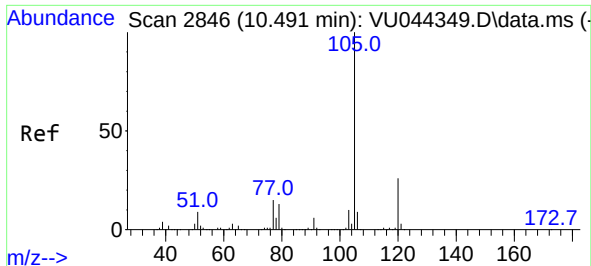
Tgt Ion:131 Resp: 43743
Ion Ratio Lower Upper
131 100
133 95.5 77.3 115.9
119 69.7 52.8 79.2



#68
1,2-Dichlorobenzene-d4
Concen: 0.946 ug/l
RT: 12.201 min Scan# 3378
Delta R.T. 0.003 min
Lab File: VU044380.D
Acq: 21 Jul 2021 14:32

Tgt Ion:152 Resp: 19037
Ion Ratio Lower Upper
152 100
115 82.8 0.0 257.0
150 158.1 0.0 630.2

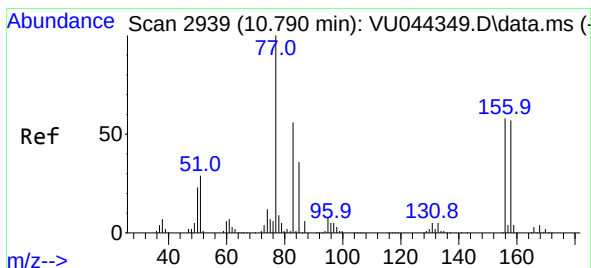
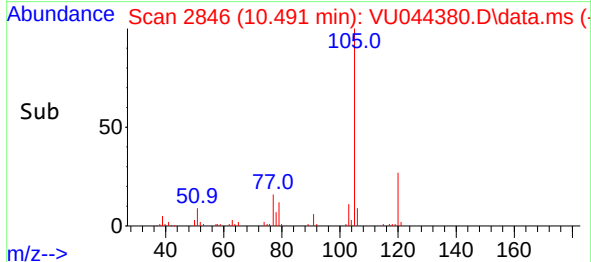
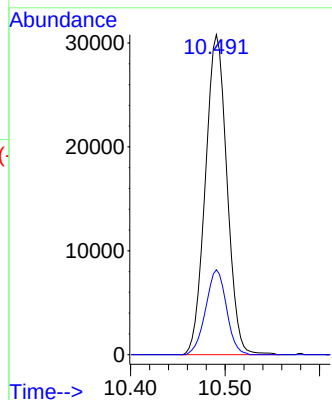
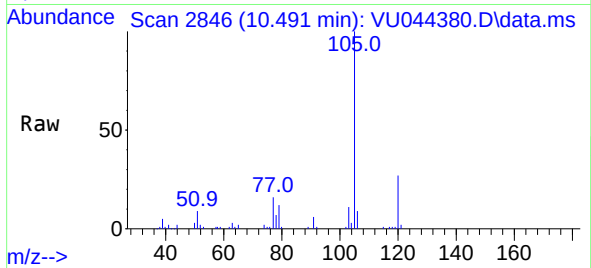




#69
Isopropylbenzene
Concen: 0.690 ug/l
RT: 10.491 min Scan# 2846
Delta R.T. -0.000 min
Lab File: VU044380.D
Acq: 21 Jul 2021 14:32

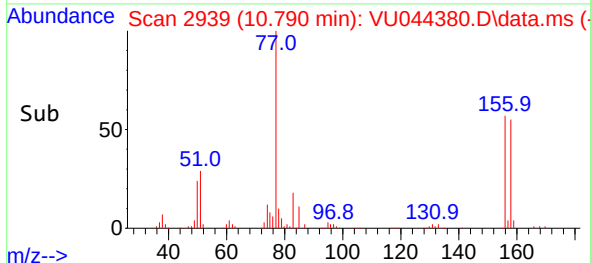
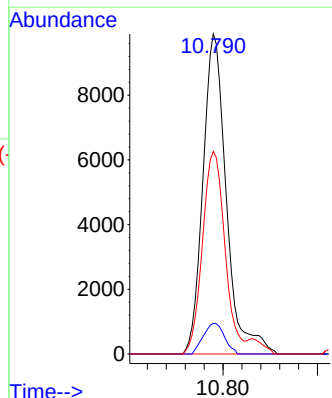
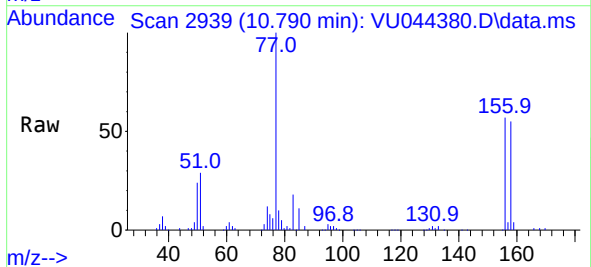
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

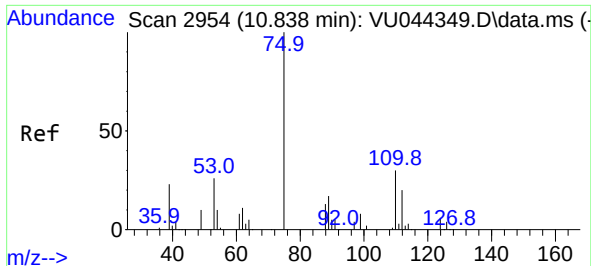
Tgt Ion:105 Resp: 48894
Ion Ratio Lower Upper
105 100
120 25.5 13.1 39.3



#70
1,1,2,2-Tetrachloroethane
Concen: 1.102 ug/l
RT: 10.790 min Scan# 2939
Delta R.T. -0.000 min
Lab File: VU044380.D
Acq: 21 Jul 2021 14:32

Tgt Ion: 83 Resp: 17000
Ion Ratio Lower Upper
83 100
131 8.6 8.2 12.2
85 60.5 50.8 76.2

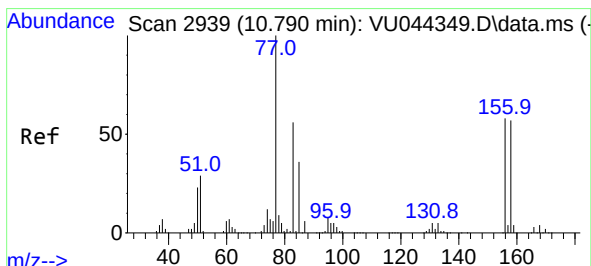
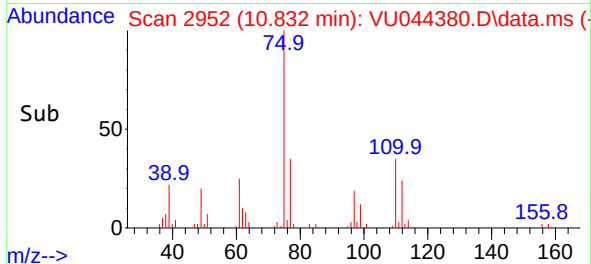
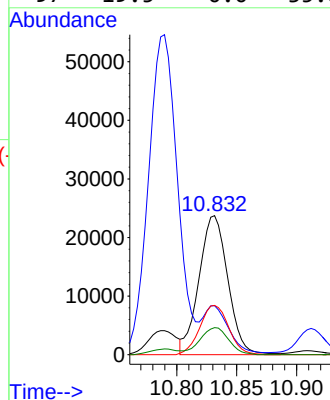
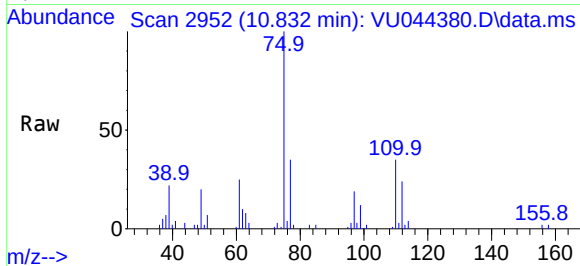




#71
1,2,3-Trichloropropane
Concen: 3.003 ug/l
RT: 10.832 min Scan# 2952
Delta R.T. -0.007 min
Lab File: VU044380.D
Acq: 21 Jul 2021 14:32

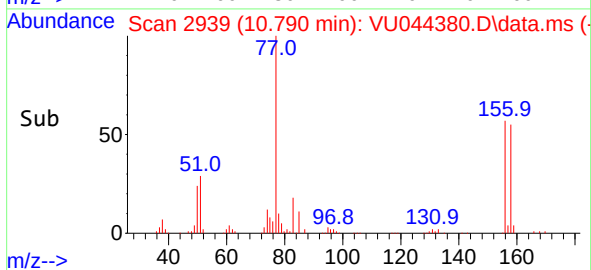
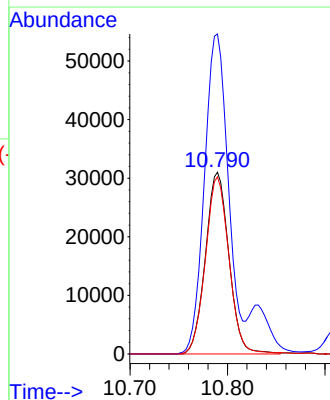
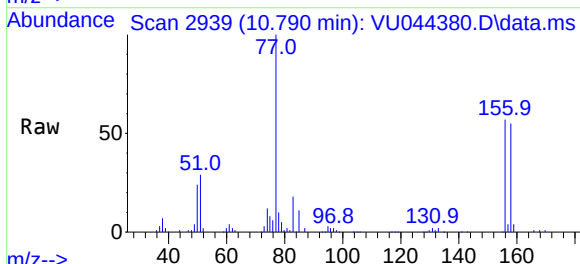
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

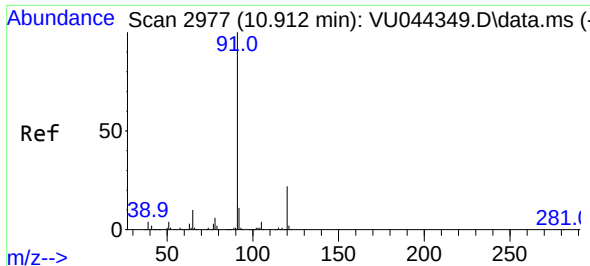
Tgt Ion:	75	Resp:	39733
Ion	Ratio	Lower	Upper
75	100		
77	30.1	0.0	111.4
110	35.5	0.0	74.6
97	19.5	0.0	35.8



#72
Bromobenzene
Concen: 3.169 ug/l
RT: 10.790 min Scan# 2939
Delta R.T. -0.000 min
Lab File: VU044380.D
Acq: 21 Jul 2021 14:32

Tgt Ion:	156	Resp:	52012
Ion	Ratio	Lower	Upper
156	100		
77	178.4	0.0	324.2
158	97.9	0.0	192.4

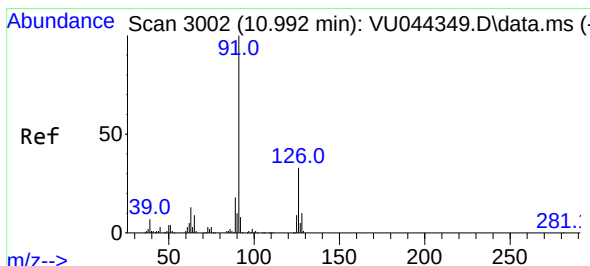
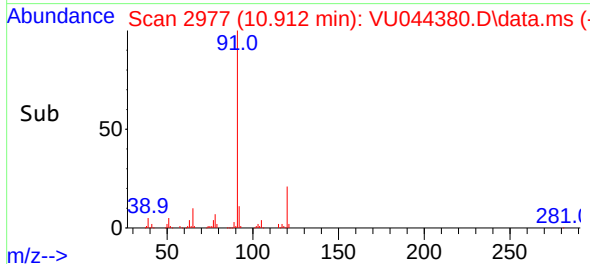
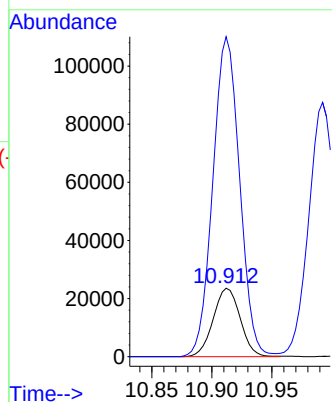
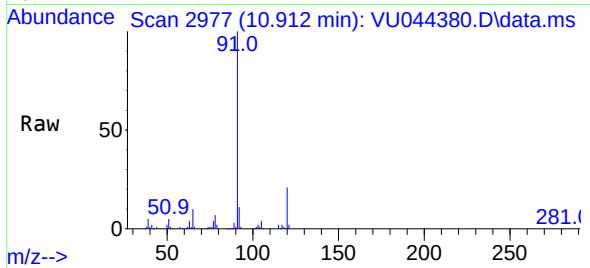




#73
n-propylbenzene
Concen: 1.925 ug/l
RT: 10.912 min Scan# 2977
Delta R.T. -0.000 min
Lab File: VU044380.D
Acq: 21 Jul 2021 14:32

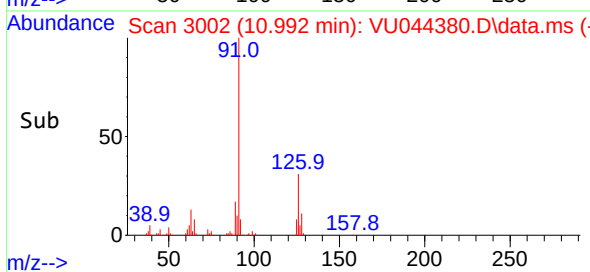
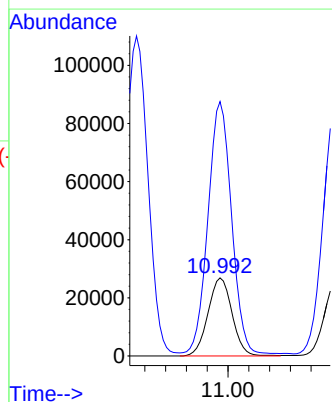
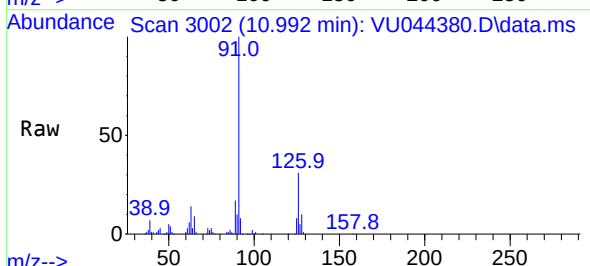
Instrument :
MSVOA_U
ClientSampleId :
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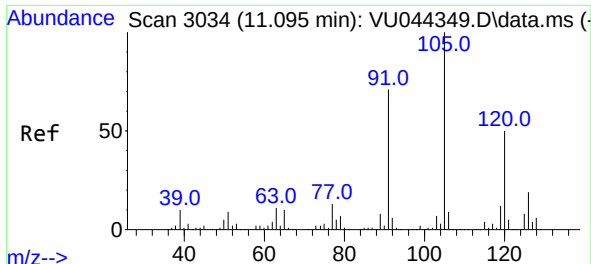
Tgt Ion:120 Resp: 36771
Ion Ratio Lower Upper
120 100
91 464.0 346.6 519.8



#74
2-Chlorotoluene
Concen: 2.632 ug/l
RT: 10.992 min Scan# 3002
Delta R.T. -0.000 min
Lab File: VU044380.D
Acq: 21 Jul 2021 14:32

Tgt Ion:126 Resp: 43134
Ion Ratio Lower Upper
126 100
91 324.0 0.0 593.2

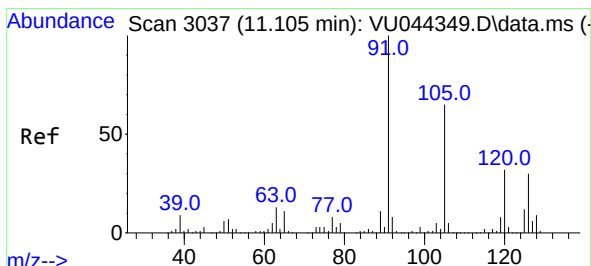
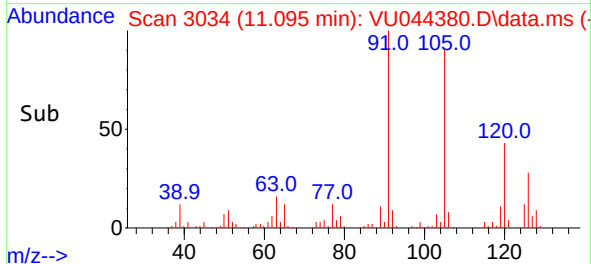
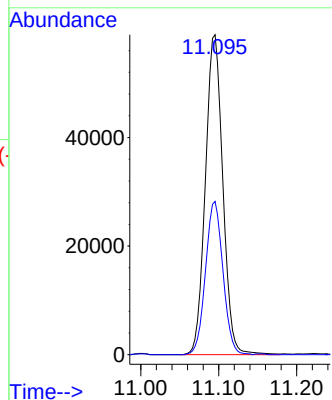
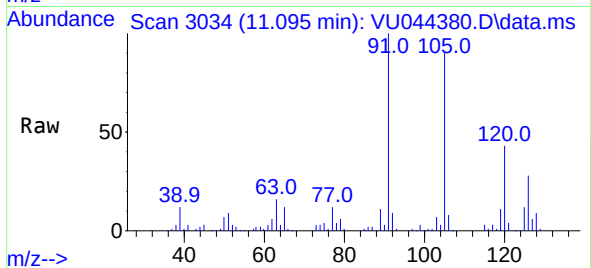




#75
1,3,5-Trimethylbenzene
Concen: 1.530 ug/l
RT: 11.095 min Scan# 3034
Delta R.T. -0.000 min
Lab File: VU044380.D
Acq: 21 Jul 2021 14:32

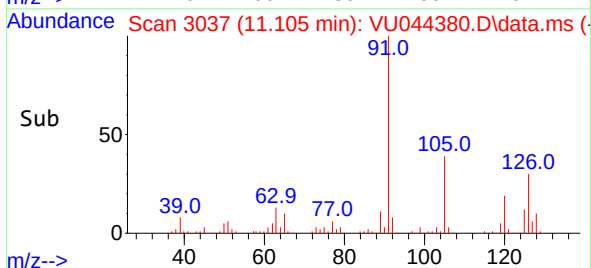
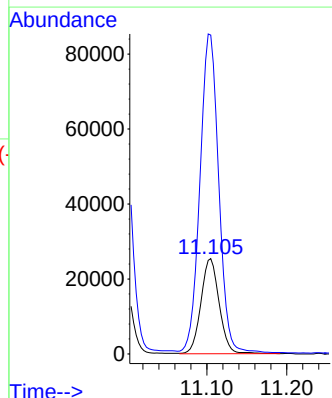
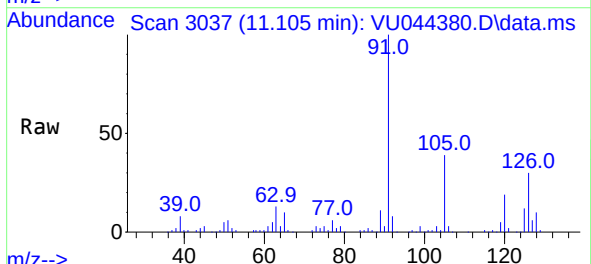
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

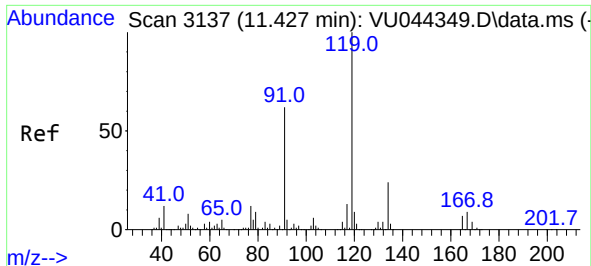
Tgt Ion:105 Resp: 91687
Ion Ratio Lower Upper
105 100
120 47.8 38.6 58.0



#76
4-Chlorotoluene
Concen: 2.363 ug/l
RT: 11.105 min Scan# 3037
Delta R.T. -0.000 min
Lab File: VU044380.D
Acq: 21 Jul 2021 14:32

Tgt Ion:126 Resp: 40243
Ion Ratio Lower Upper
126 100
91 348.8 0.0 692.4

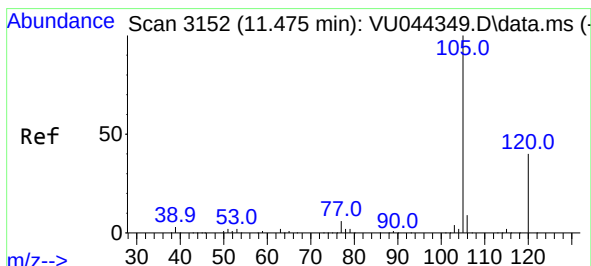
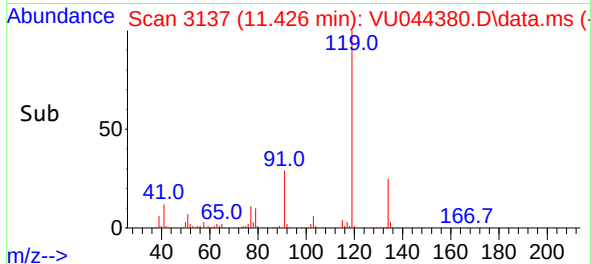
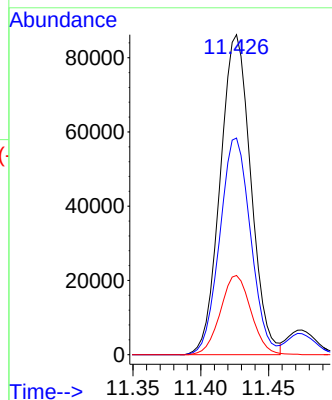
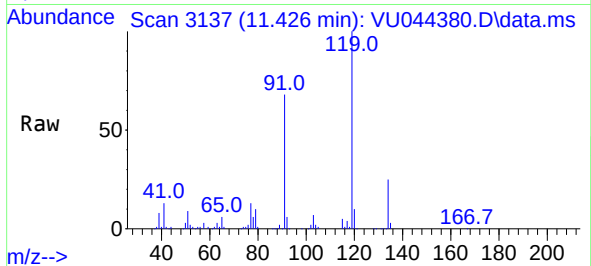




#77
tert-Butylbenzene
Concen: 2.311 ug/l
RT: 11.426 min Scan# 3137
Delta R.T. -0.000 min
Lab File: VU044380.D
Acq: 21 Jul 2021 14:32

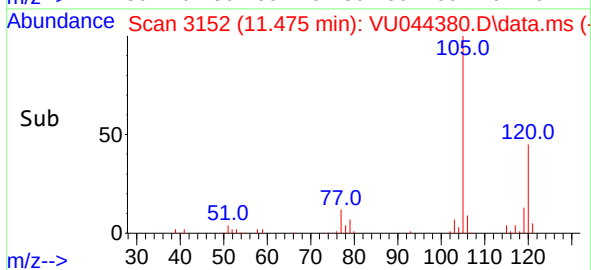
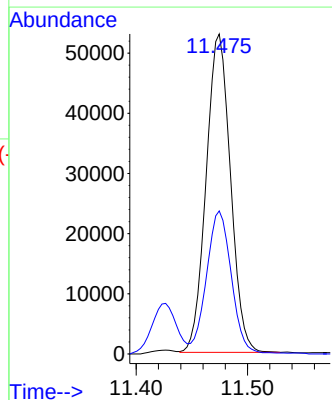
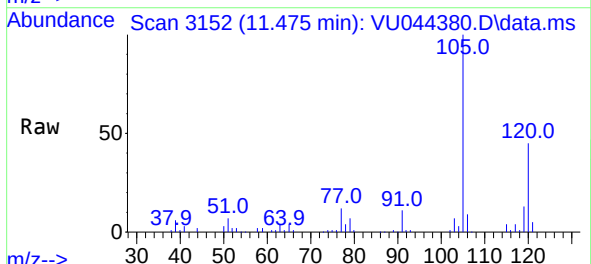
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MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

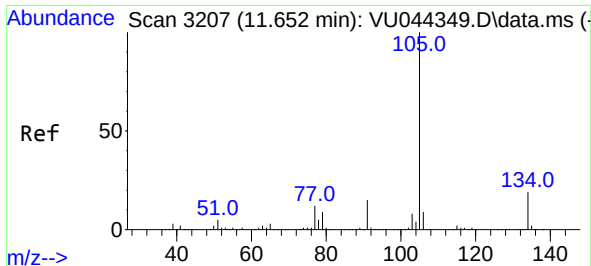
Tgt Ion:119 Resp: 135697
Ion Ratio Lower Upper
119 100
91 68.0 29.9 89.7
134 24.7 18.7 28.1



#78
1,2,4-Trimethylbenzene
Concen: 1.320 ug/l
RT: 11.475 min Scan# 3152
Delta R.T. -0.000 min
Lab File: VU044380.D
Acq: 21 Jul 2021 14:32

Tgt Ion:105 Resp: 80265
Ion Ratio Lower Upper
105 100
120 45.6 22.7 68.0

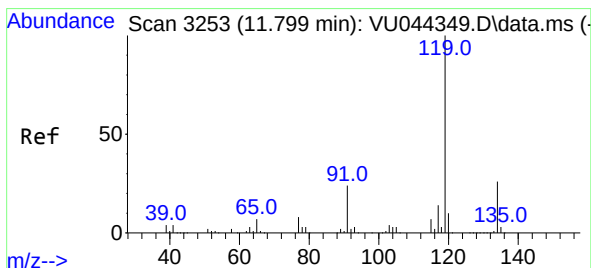
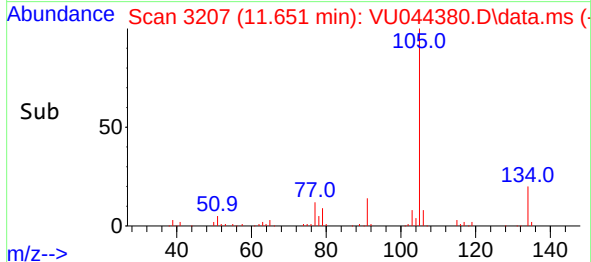
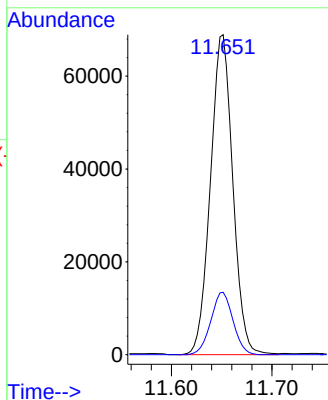
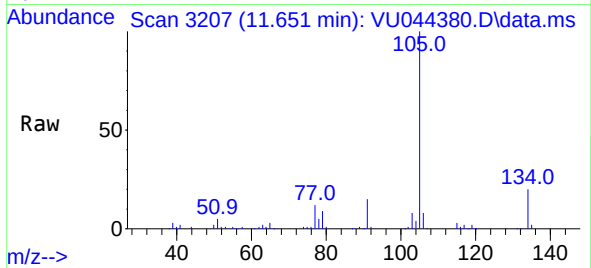




#79
 sec-Butylbenzene
 Concen: 1.333 ug/l
 RT: 11.651 min Scan# 3207
 Delta R.T. -0.000 min
 Lab File: VU044380.D
 Acq: 21 Jul 2021 14:32

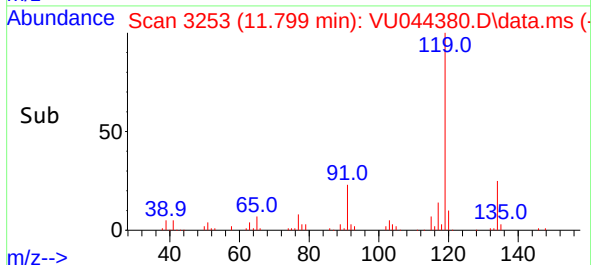
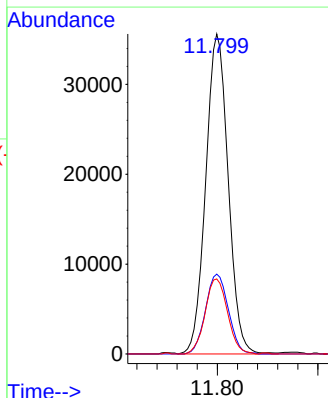
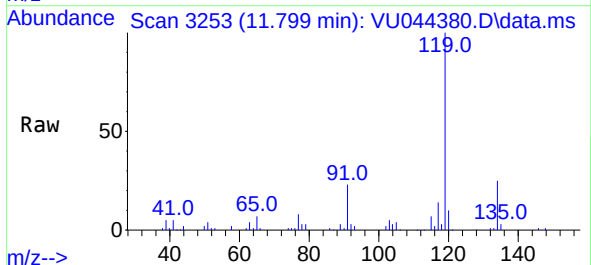
Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WSDL

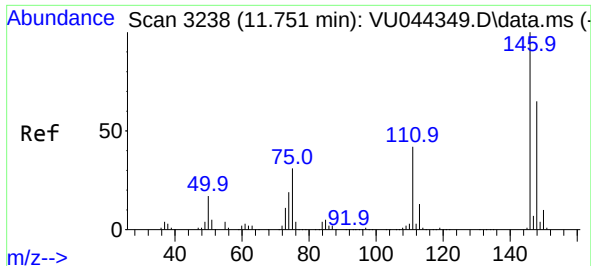
Tgt Ion:105 Resp: 106587
 Ion Ratio Lower Upper
 105 100
 134 19.3 16.1 24.1



#81
 p-Isopropyltoluene
 Concen: 0.832 ug/l
 RT: 11.799 min Scan# 3253
 Delta R.T. -0.000 min
 Lab File: VU044380.D
 Acq: 21 Jul 2021 14:32

Tgt Ion:119 Resp: 55123
 Ion Ratio Lower Upper
 119 100
 134 25.4 21.0 31.4
 91 23.5 19.4 29.2

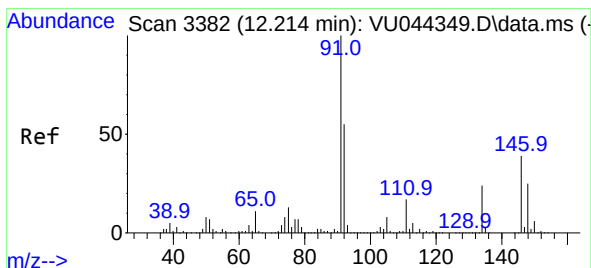
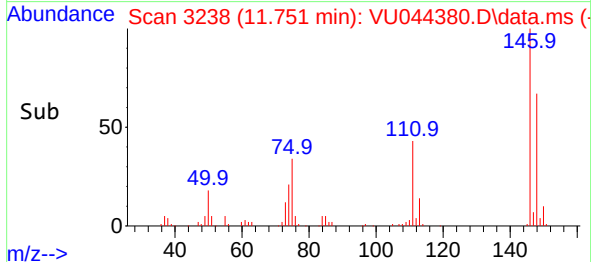
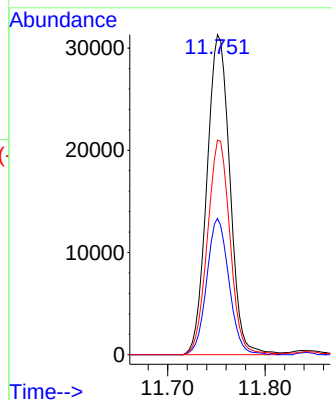
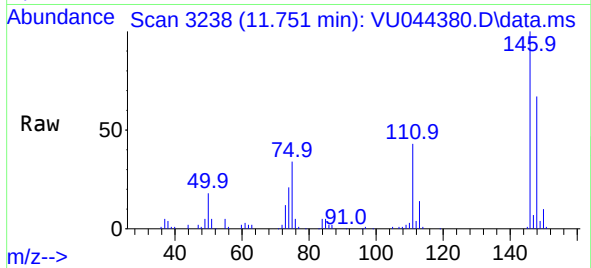




#82
1,3-Dichlorobenzene
Concen: 1.573 ug/l
RT: 11.751 min Scan# 3238
Delta R.T. -0.000 min
Lab File: VU044380.D
Acq: 21 Jul 2021 14:32

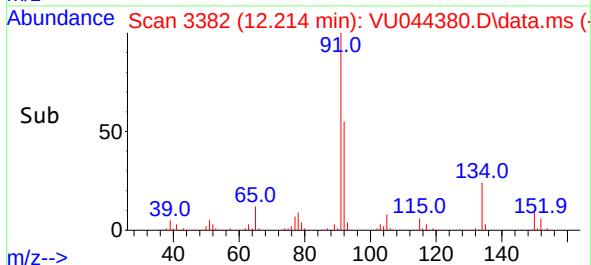
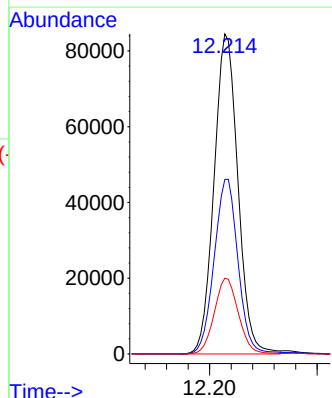
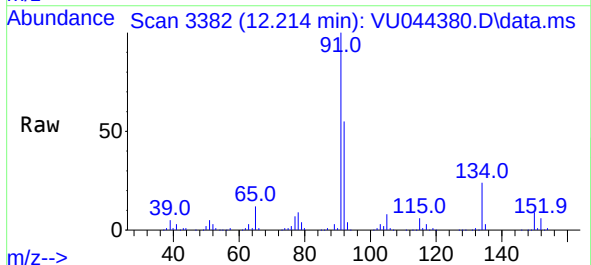
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

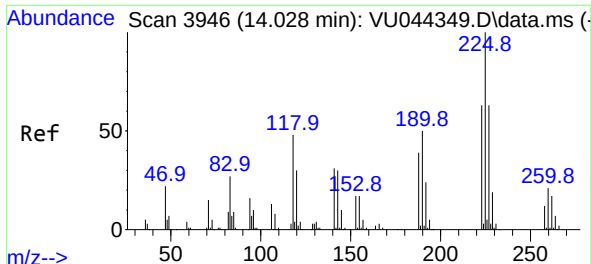
Tgt Ion:146 Resp: 51281
Ion Ratio Lower Upper
146 100
111 41.1 33.3 49.9
148 66.0 50.9 76.3



#84
n-Butylbenzene
Concen: 2.006 ug/l
RT: 12.214 min Scan# 3382
Delta R.T. -0.000 min
Lab File: VU044380.D
Acq: 21 Jul 2021 14:32

Tgt Ion: 91 Resp: 130053
Ion Ratio Lower Upper
91 100
92 54.6 43.3 64.9
134 23.9 20.2 30.4

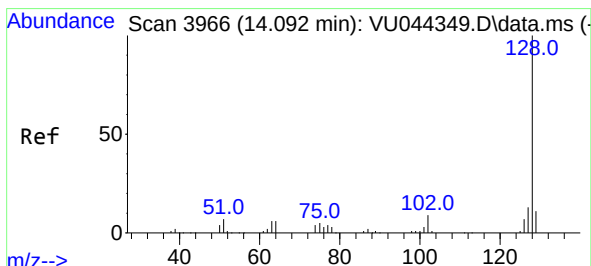
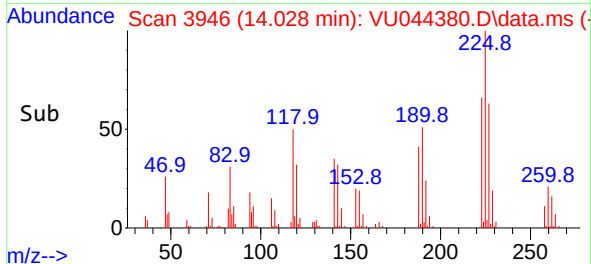
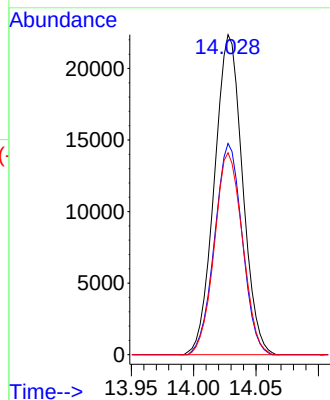
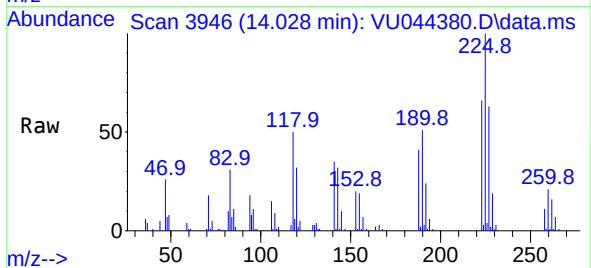




#88
Hexachlorobutadiene
Concen: 3.253 ug/l
RT: 14.028 min Scan# 3946
Delta R.T. -0.000 min
Lab File: VU044380.D
Acq: 21 Jul 2021 14:32

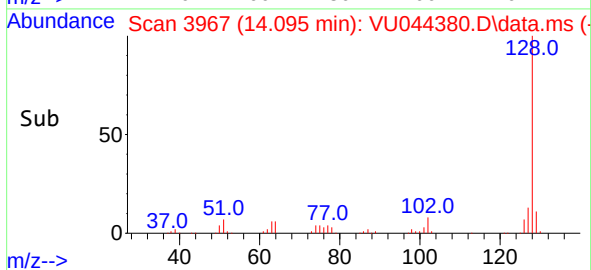
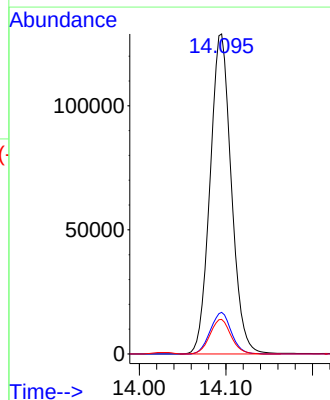
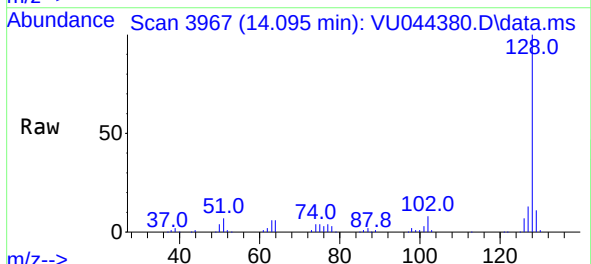
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

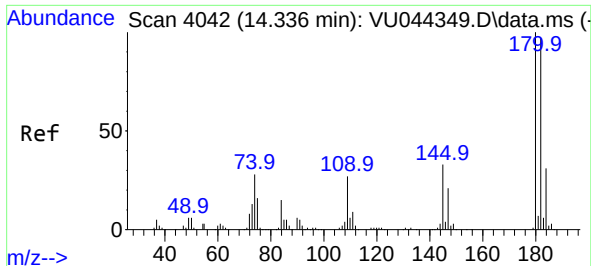
Tgt Ion:	225	Resp:	35171
Ion Ratio	Lower	Upper	
225	100		
223	64.6	50.9	76.3
227	63.0	50.8	76.2



#89
Naphthalene
Concen: 4.921 ug/l
RT: 14.095 min Scan# 3967
Delta R.T. 0.003 min
Lab File: VU044380.D
Acq: 21 Jul 2021 14:32

Tgt Ion:	128	Resp:	219906
Ion Ratio	Lower	Upper	
128	100		
127	12.9	10.4	15.6
129	10.7	8.6	13.0





#90
1,2,3-Trichlorobenzene
Concen: 4.012 ug/l
RT: 14.336 min Scan# 4042
Delta R.T. -0.000 min
Lab File: VU044380.D
Acq: 21 Jul 2021 14:32

Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

Tgt Ion:180 Resp: 81390
Ion Ratio Lower Upper
180 100
182 93.7 77.1 115.7
145 32.3 27.0 40.4

