

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU072021\
 Data File : VU044374.D
 Acq On : 20 Jul 2021 17:11
 Operator : SY/MD
 Sample : M3035-07DL 5X
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jul 21 01:26:00 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)

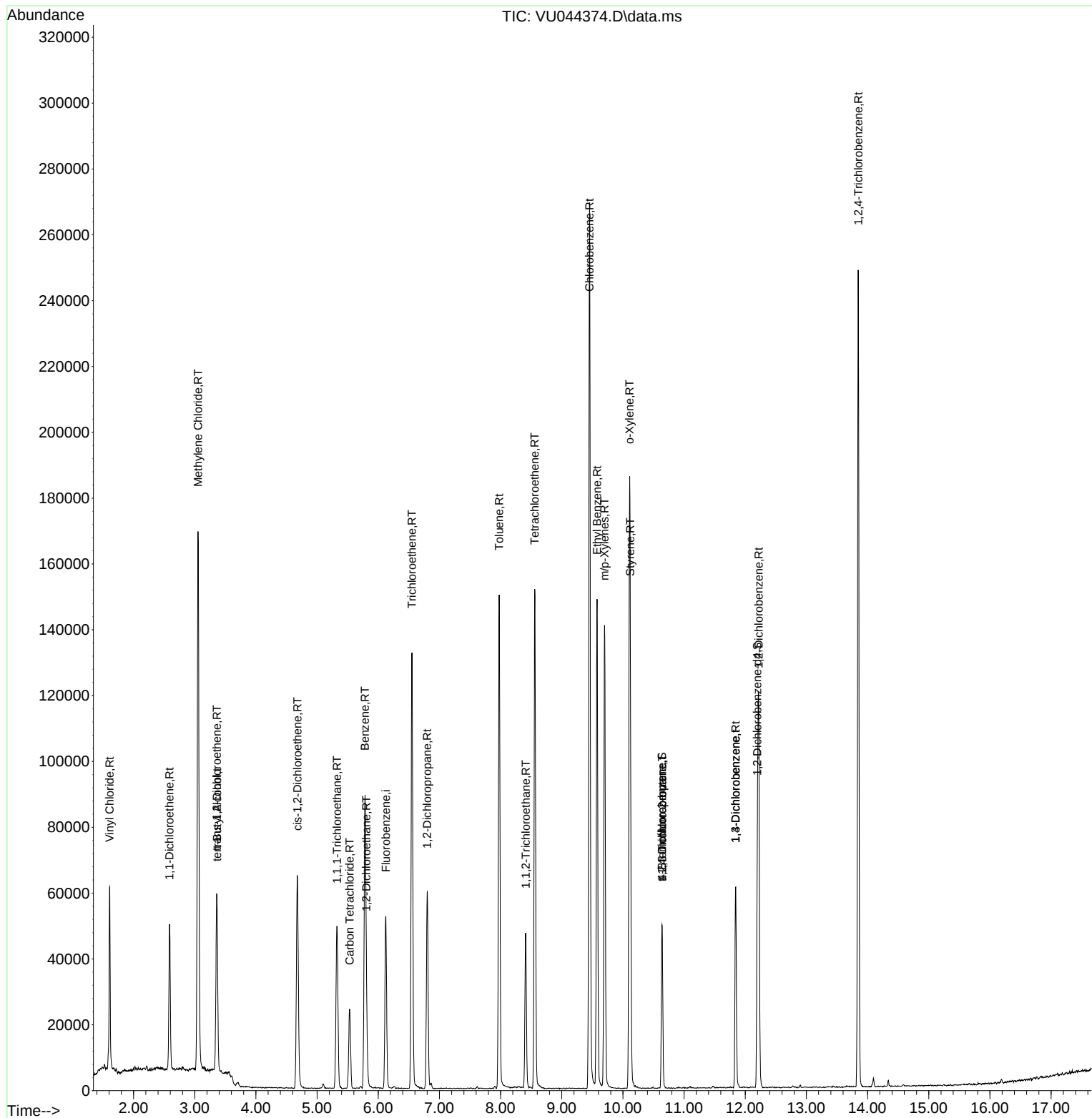
Internal Standards						
1) Fluorobenzene	6.125	96	49658	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.639	95	18669	0.932	ug/l	0.00
Spiked Amount 1.000			Recovery	=	93.000%	
68) 1,2-Dichlorobenzene-d4	12.198	152	18954	0.970	ug/l	0.00
Spiked Amount 1.000			Recovery	=	97.000%	
Target Compounds						
						Qvalue
4) Vinyl Chloride	1.610	62	38959	2.047	ug/l	98
9) 1,1-Dichloroethene	2.588	96	14788	1.166	ug/l	94
15) Methylene Chloride	3.054	84	79047	4.392	ug/l	96
16) trans-1,2-Dichloroethene	3.363	96	22891	1.618	ug/l	95
22) cis-1,2-Dichloroethene	4.678	96	34894	2.257	ug/l	82
24) tert-Butyl Alcohol	3.366	59	978	1.549	ug/l	# 78
28) 1,1,1-Trichloroethane	5.327	97	36482	1.716	ug/l	99
30) Carbon Tetrachloride	5.533	117	17139	0.967	ug/l	96
35) Benzene	5.784	78	84019	1.431	ug/l	99
36) 1,2-Dichloroethane	5.806	62	17851	1.059	ug/l	96
37) Trichloroethene	6.549	130	46117	3.125	ug/l	95
38) 1,2-Dichloropropane	6.800	63	24871	1.600	ug/l	98
46) t-1,4-Dichloro-2-butene	10.642	75	9111	2.053	ug/l	# 22
49) Toluene	7.977	92	66441	1.799	ug/l	99
52) 1,1,2-Trichloroethane	8.411	97	15545	1.369	ug/l	99
58) Tetrachloroethene	8.558	164	35020	2.796	ug/l	99
59) Chlorobenzene	9.456	112	148128	3.793	ug/l	97
63) Ethyl Benzene	9.578	91	108311	1.552	ug/l	98
64) m/p-Xylenes	9.700	106	42221	1.583	ug/l	99
65) o-Xylene	10.108	106	42057	1.634	ug/l	96
66) Styrene	10.121	104	41993	0.947	ug/l	95
71) 1,2,3-Trichloropropane	10.642	75	9111	0.709	ug/l	# 34
82) 1,3-Dichlorobenzene	11.845	146	26188	0.827	ug/l	99
83) 1,4-Dichlorobenzene	11.845	146	26188	0.819	ug/l	98
85) 1,2-Dichlorobenzene	12.221	146	43352	1.413	ug/l	100
87) 1,2,4-Trichlorobenzene	13.848	180	76552	3.528	ug/l	98

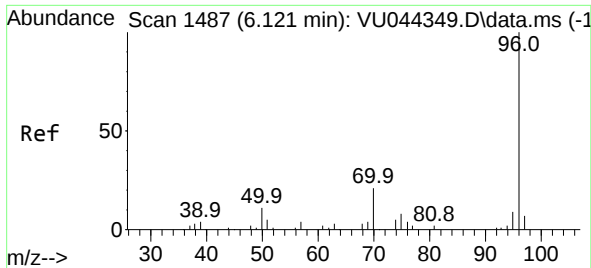
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Fri Jul 16 14:36:39 2021
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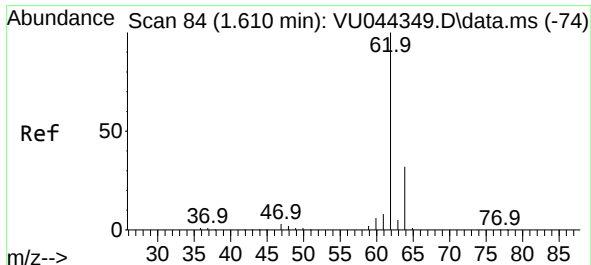
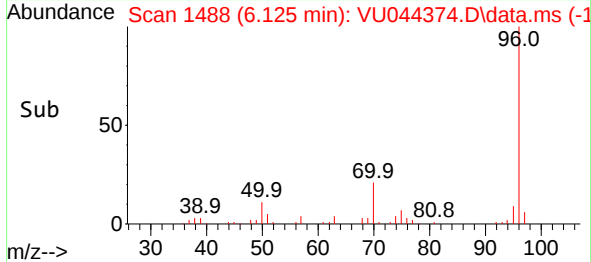
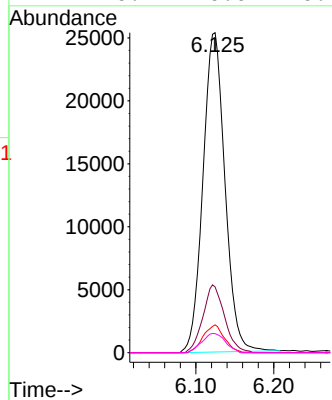
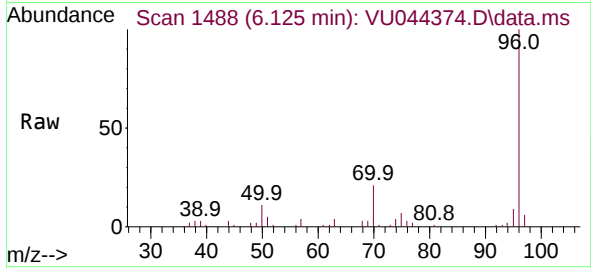




#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.125 min Scan# 1488
Delta R.T. 0.003 min
Lab File: VU044374.D
Acq: 20 Jul 2021 17:11

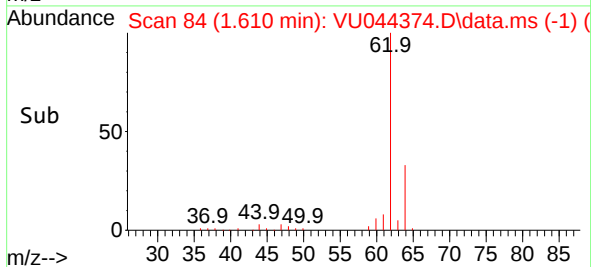
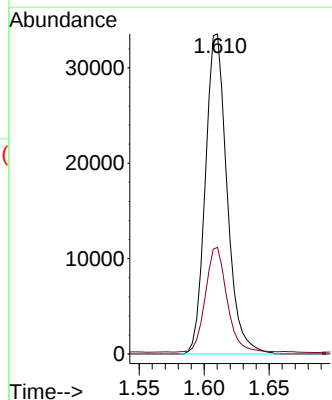
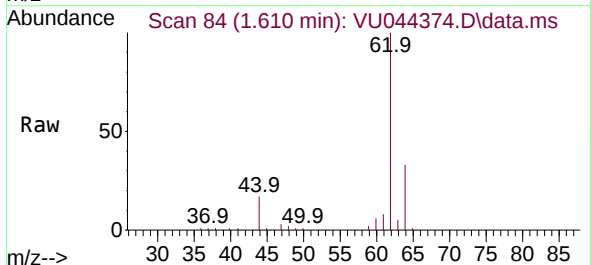
Instrument :
MSVOA_U
ClientSampled :

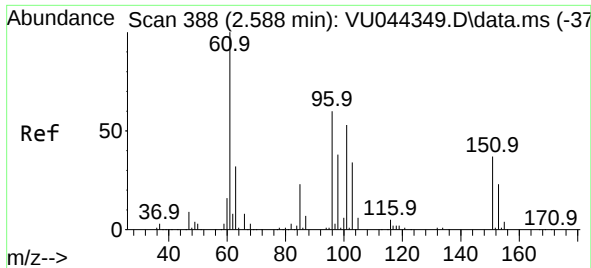
Tgt Ion: 96	Resp: 49658
Ion Ratio	Lower Upper
96 100	
70 20.8	16.2 24.2
95 8.4	7.3 10.9
97 6.4	0.0 0.0



#4
Vinyl Chloride
Concen: 2.047 ug/l
RT: 1.610 min Scan# 84
Delta R.T. 0.000 min
Lab File: VU044374.D
Acq: 20 Jul 2021 17:11

Tgt Ion: 62	Resp: 38959
Ion Ratio	Lower Upper
62 100	
64 32.6	25.1 37.7

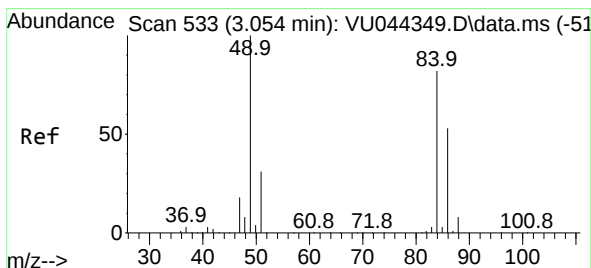
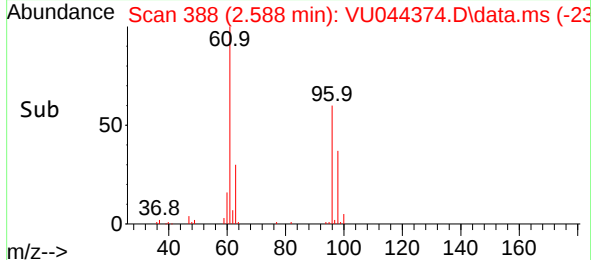
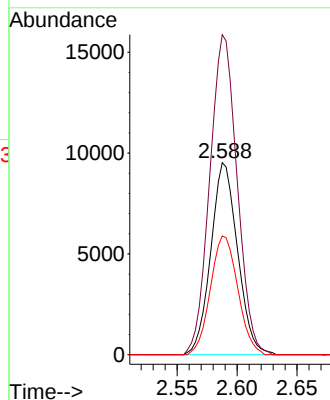
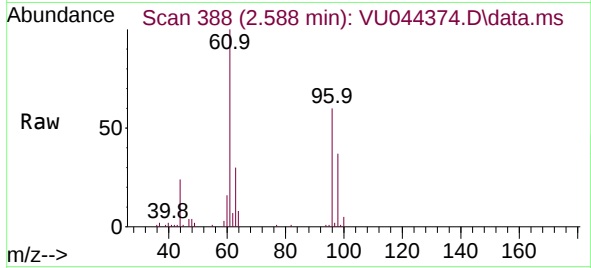




#9
1,1-Dichloroethene
Concen: 1.166 ug/l
RT: 2.588 min Scan# 388
Delta R.T. 0.000 min
Lab File: VU044374.D
Acq: 20 Jul 2021 17:11

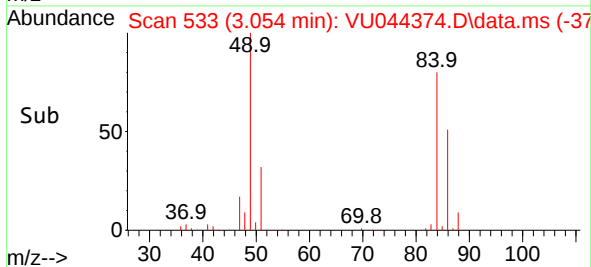
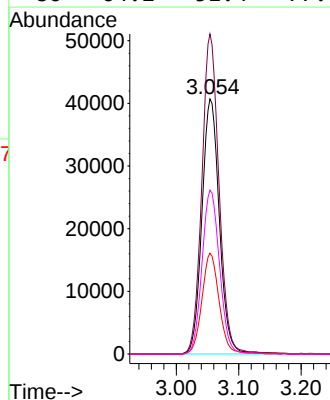
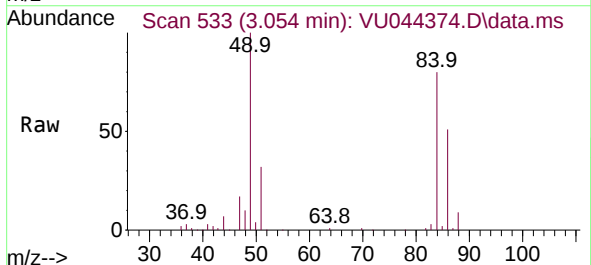
Instrument :
MSVOA_U
ClientSampled :

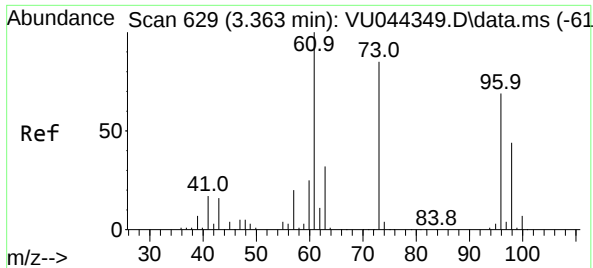
Tgt Ion: 96 Resp: 14788
Ion Ratio Lower Upper
96 100
61 166.6 0.0 528.0
98 61.8 0.0 127.4



#15
Methylene Chloride
Concen: 4.392 ug/l
RT: 3.054 min Scan# 533
Delta R.T. 0.000 min
Lab File: VU044374.D
Acq: 20 Jul 2021 17:11

Tgt Ion: 84 Resp: 79047
Ion Ratio Lower Upper
84 100
49 125.5 106.3 159.5
51 39.5 0.0 81.8
86 64.2 51.4 77.0

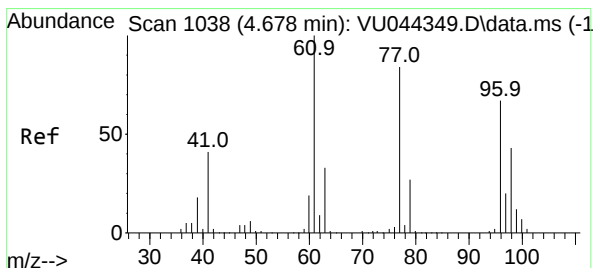
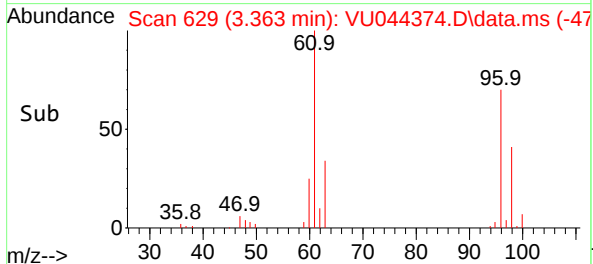
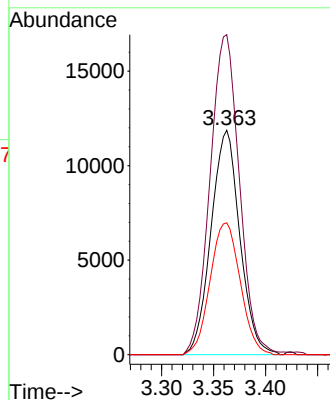
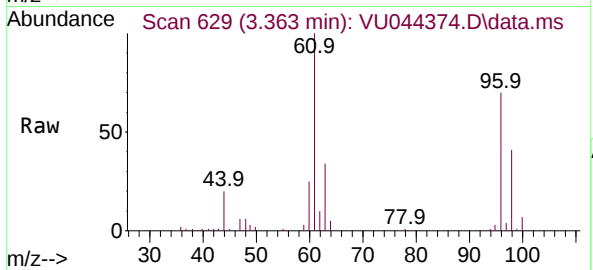




#16
trans-1,2-Dichloroethene
Concen: 1.618 ug/l
RT: 3.363 min Scan# 629
Delta R.T. 0.000 min
Lab File: VU044374.D
Acq: 20 Jul 2021 17:11

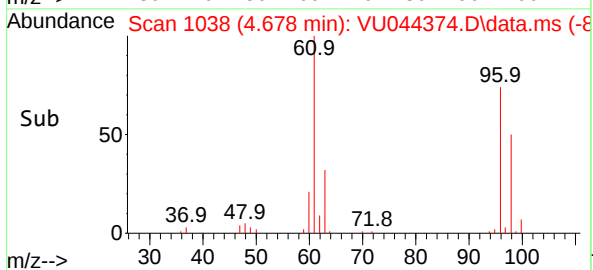
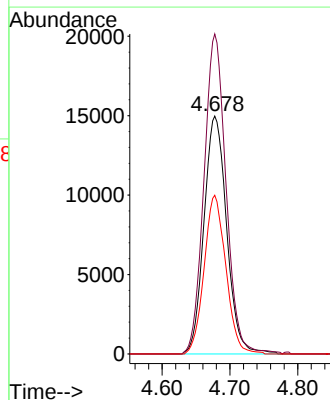
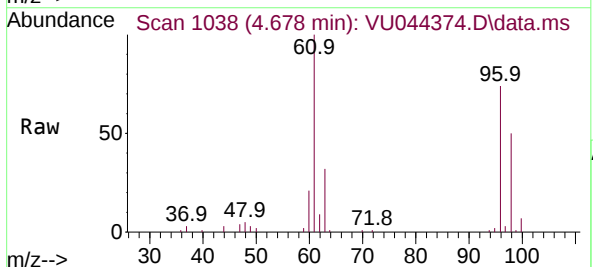
Instrument :
MSVOA_U
ClientSampleId :

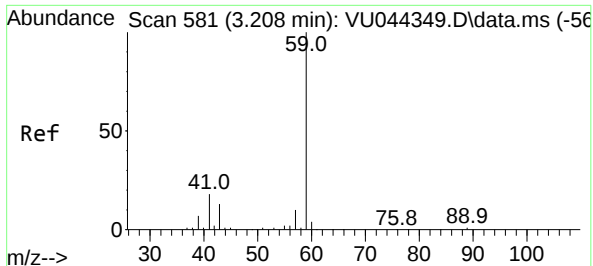
Tgt Ion: 96 Resp: 22891
Ion Ratio Lower Upper
96 100
61 142.6 119.3 178.9
98 58.7 50.8 76.2



#22
cis-1,2-Dichloroethene
Concen: 2.257 ug/l
RT: 4.678 min Scan# 1038
Delta R.T. 0.000 min
Lab File: VU044374.D
Acq: 20 Jul 2021 17:11

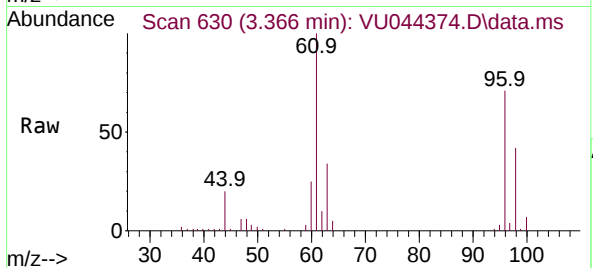
Tgt Ion: 96 Resp: 34894
Ion Ratio Lower Upper
96 100
61 129.8 0.0 407.7
98 63.9 32.5 97.4



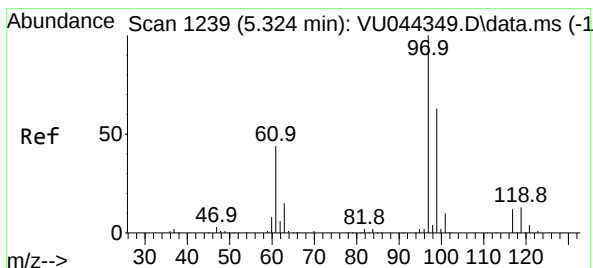
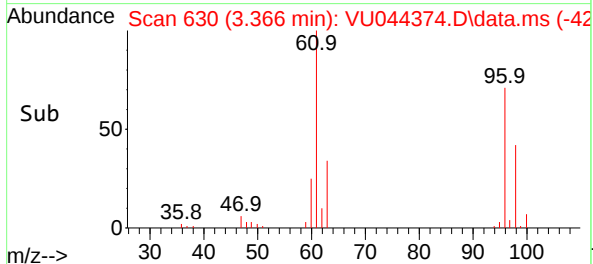
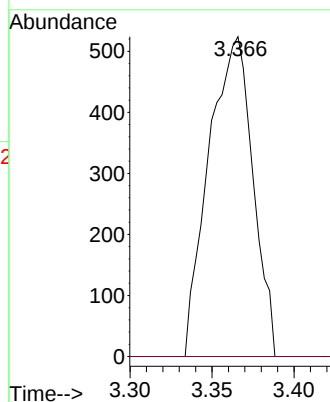


#24
tert-Butyl Alcohol
Concen: 1.549 ug/l
RT: 3.366 min Scan# 630
Delta R.T. 0.158 min
Lab File: VU044374.D
Acq: 20 Jul 2021 17:11

Instrument :
MSVOA_U
ClientSampled :

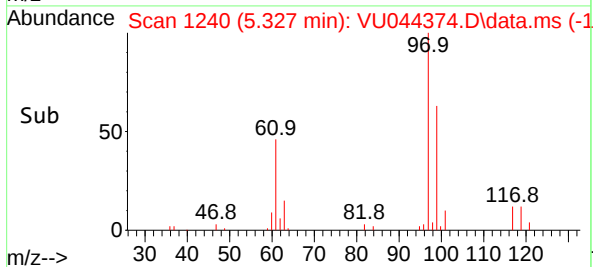
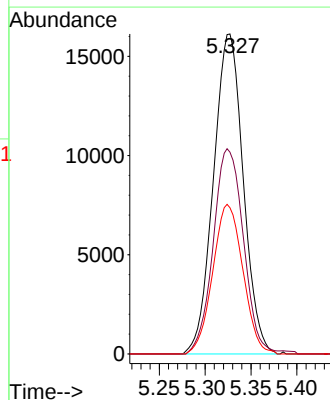
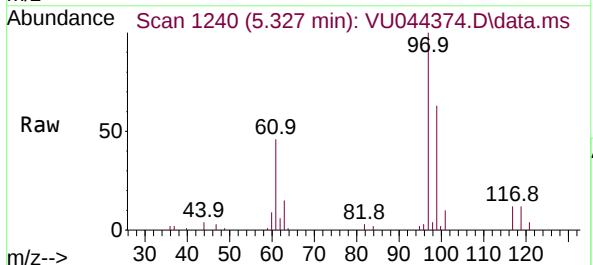


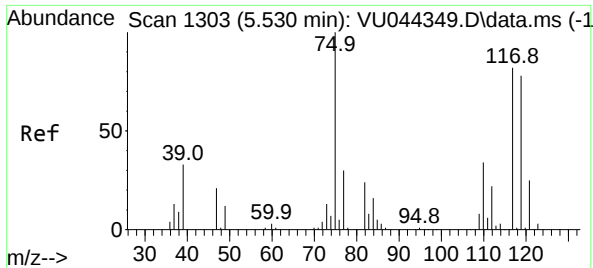
Tgt Ion: 59 Resp: 978
Ion Ratio Lower Upper
59 100
57 2.0 8.2 12.4#



#28
1,1,1-Trichloroethane
Concen: 1.716 ug/l
RT: 5.327 min Scan# 1240
Delta R.T. 0.003 min
Lab File: VU044374.D
Acq: 20 Jul 2021 17:11

Tgt Ion: 97 Resp: 36482
Ion Ratio Lower Upper
97 100
99 65.3 32.0 96.2
61 47.3 23.8 71.5

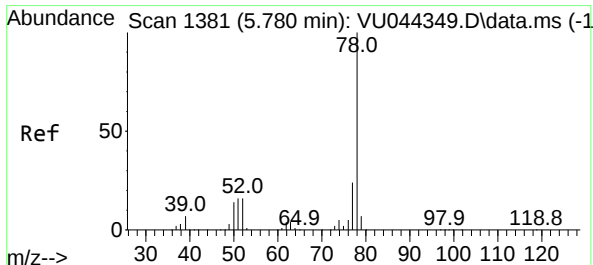
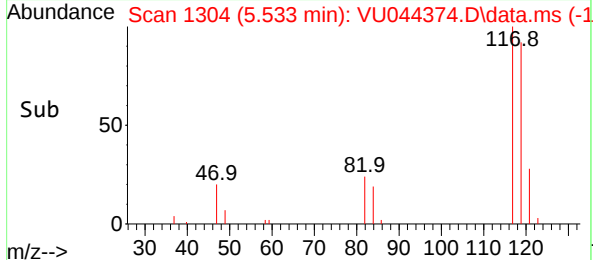
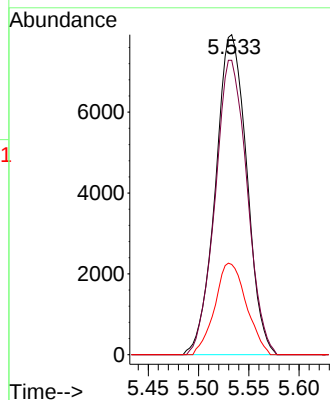
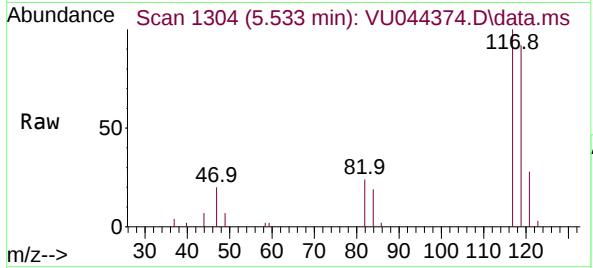




#30
Carbon Tetrachloride
Concen: 0.967 ug/l
RT: 5.533 min Scan# 1304
Delta R.T. 0.003 min
Lab File: VU044374.D
Acq: 20 Jul 2021 17:11

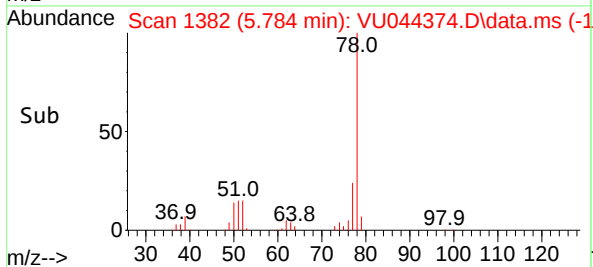
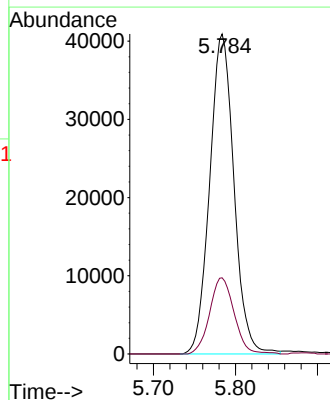
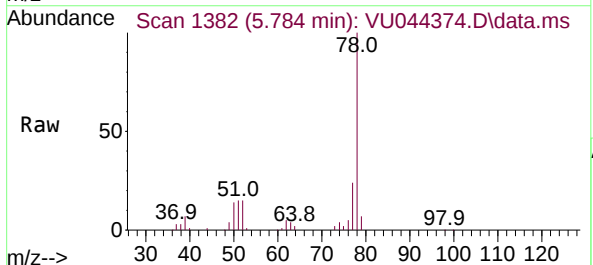
Instrument :
MSVOA_U
ClientSampled :

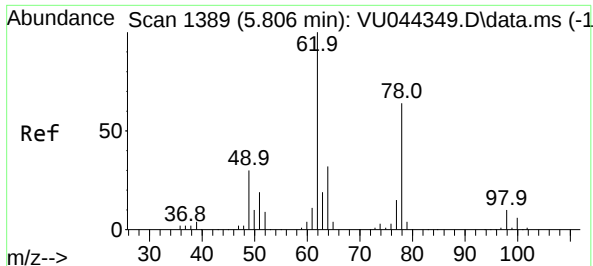
Tgt Ion:117 Resp: 17139
Ion Ratio Lower Upper
117 100
119 92.0 77.0 115.6
121 28.2 24.2 36.4



#35
Benzene
Concen: 1.431 ug/l
RT: 5.784 min Scan# 1382
Delta R.T. 0.003 min
Lab File: VU044374.D
Acq: 20 Jul 2021 17:11

Tgt Ion: 78 Resp: 84019
Ion Ratio Lower Upper
78 100
77 23.8 19.4 29.0





#36

1,2-Dichloroethane

Concen: 1.059 ug/l

RT: 5.806 min Scan# 1389

Delta R.T. 0.000 min

Lab File: VU044374.D

Acq: 20 Jul 2021 17:11

Tgt Ion: 62 Resp: 17851

Ion Ratio Lower Upper

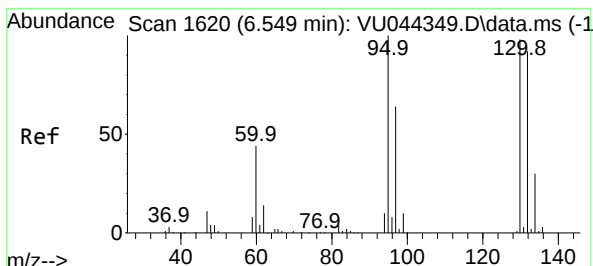
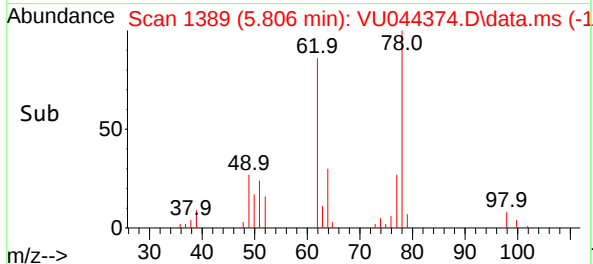
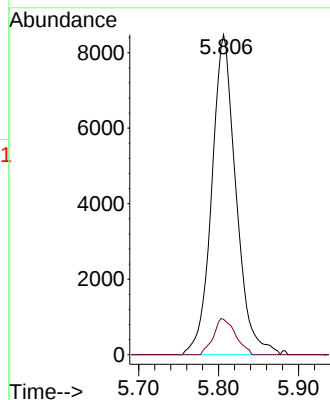
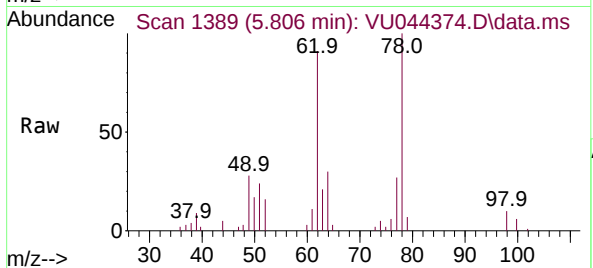
62 100

98 10.2 7.0 10.6

Instrument :

MSVOA_U

ClientSampled :



#37

Trichloroethene

Concen: 3.125 ug/l

RT: 6.549 min Scan# 1620

Delta R.T. 0.000 min

Lab File: VU044374.D

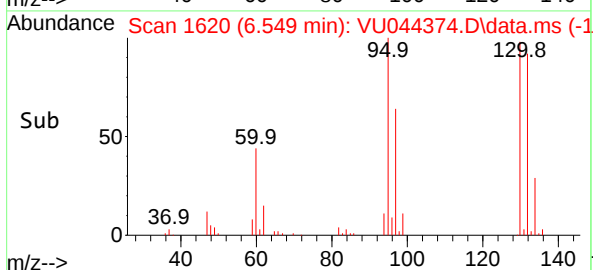
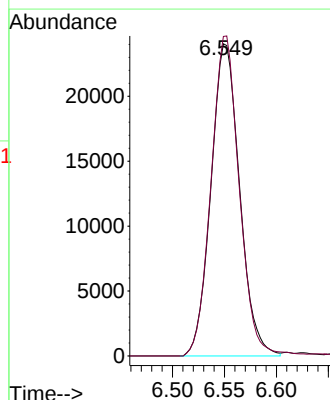
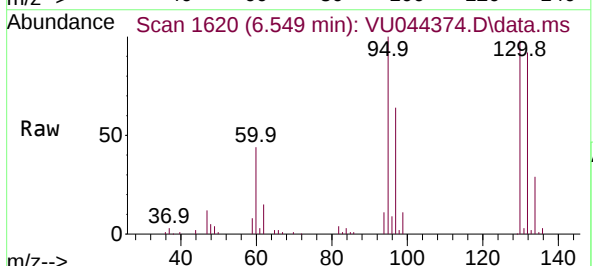
Acq: 20 Jul 2021 17:11

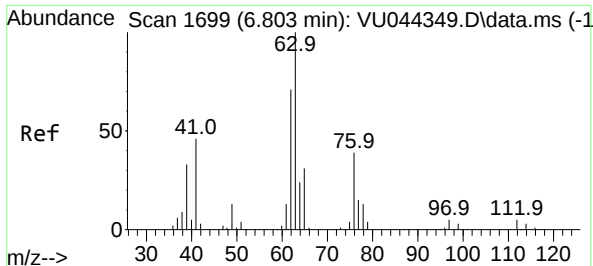
Tgt Ion:130 Resp: 46117

Ion Ratio Lower Upper

130 100

95 102.4 77.8 116.6



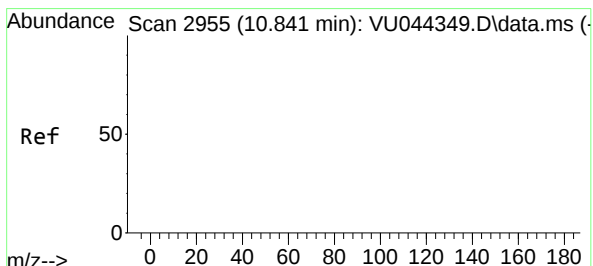
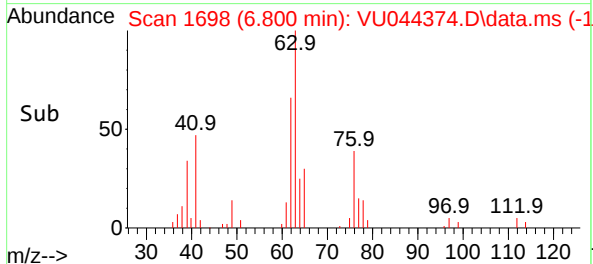
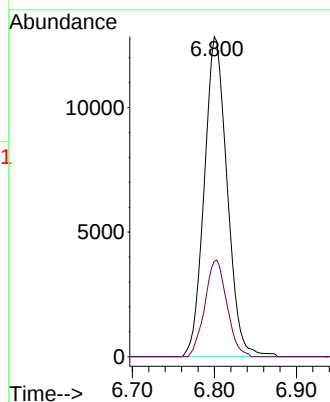
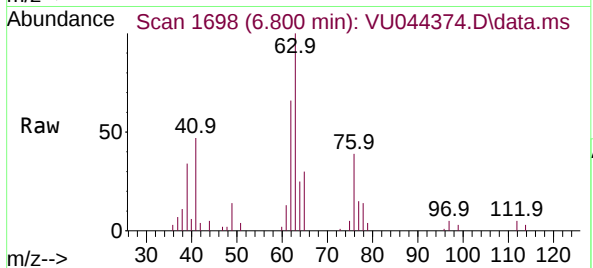


#38

1,2-Dichloropropane
Concen: 1.600 ug/l
RT: 6.800 min Scan# 1698
Delta R.T. -0.003 min
Lab File: VU044374.D
Acq: 20 Jul 2021 17:11

Instrument :
MSVOA_U
ClientSampled :

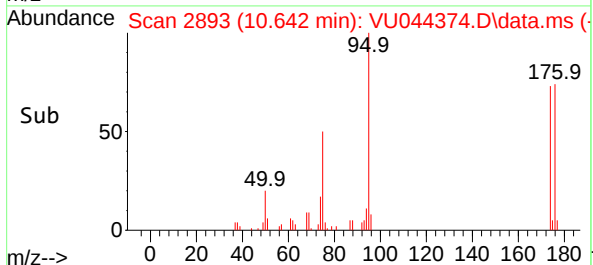
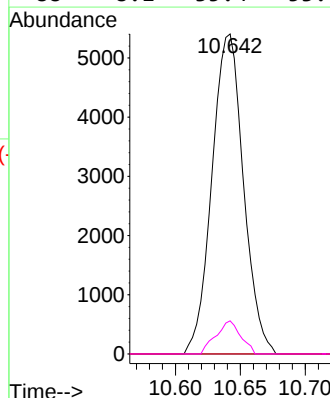
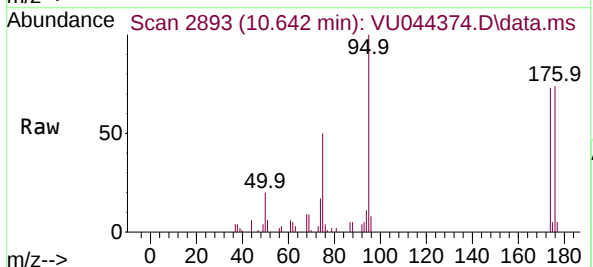
Tgt Ion: 63 Resp: 24871
Ion Ratio Lower Upper
63 100
65 29.8 24.7 37.1

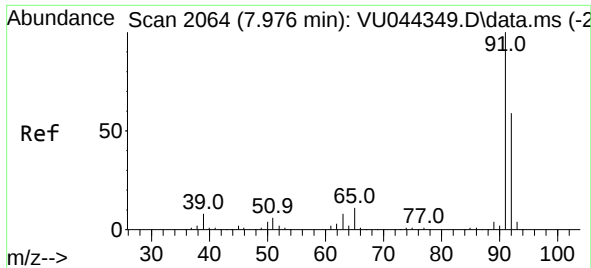


#46

t-1,4-Dichloro-2-butene
Concen: 2.053 ug/l
RT: 10.642 min Scan# 2893
Delta R.T. -0.199 min
Lab File: VU044374.D
Acq: 20 Jul 2021 17:11

Tgt Ion: 75 Resp: 9111
Ion Ratio Lower Upper
75 100
53 0.0 63.7 95.5#
89 0.0 44.6 67.0#
88 8.1 35.4 53.0#

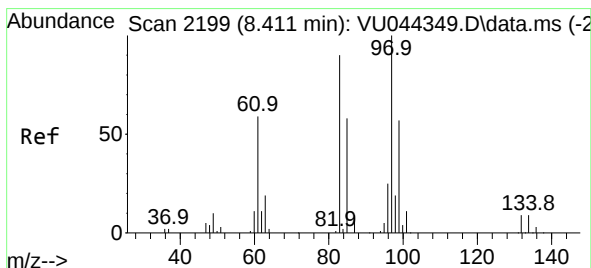
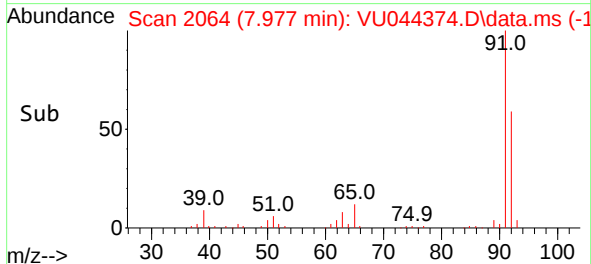
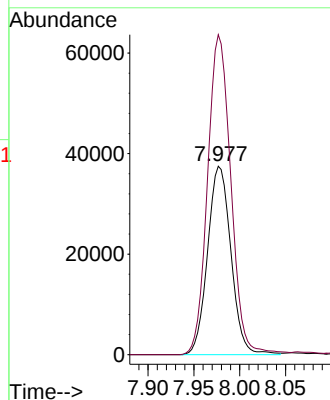
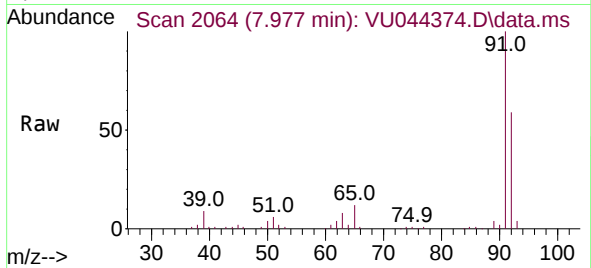




#49
Toluene
Concen: 1.799 ug/l
RT: 7.977 min Scan# 2064
Delta R.T. 0.000 min
Lab File: VU044374.D
Acq: 20 Jul 2021 17:11

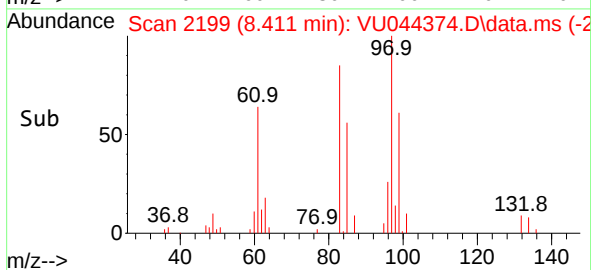
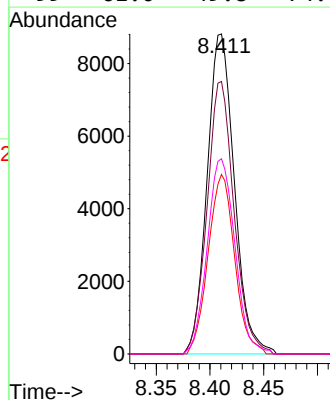
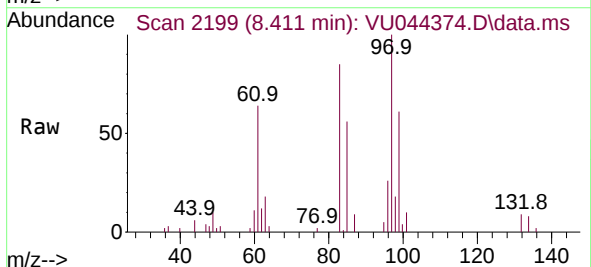
Instrument :
MSVOA_U
ClientSampled :

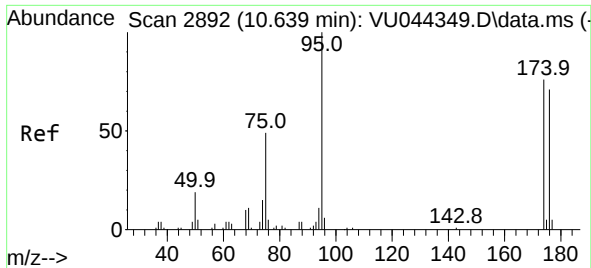
Tgt Ion: 92 Resp: 66441
Ion Ratio Lower Upper
92 100
91 169.5 137.0 205.6



#52
1,1,2-Trichloroethane
Concen: 1.369 ug/l
RT: 8.411 min Scan# 2199
Delta R.T. 0.000 min
Lab File: VU044374.D
Acq: 20 Jul 2021 17:11

Tgt Ion: 97 Resp: 15545
Ion Ratio Lower Upper
97 100
83 85.2 68.2 102.2
85 56.1 44.0 66.0
99 61.0 49.8 74.8

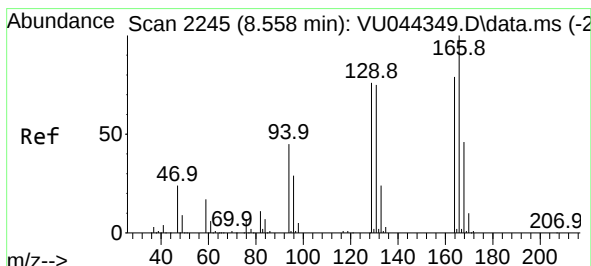
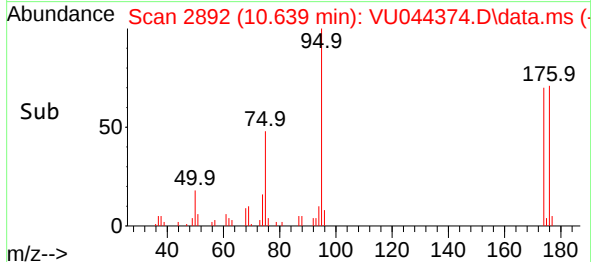
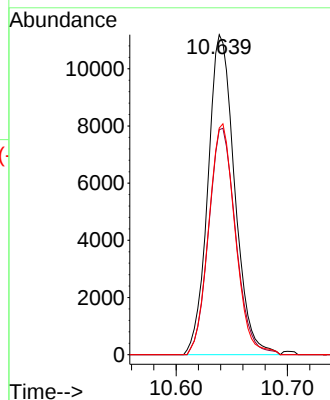
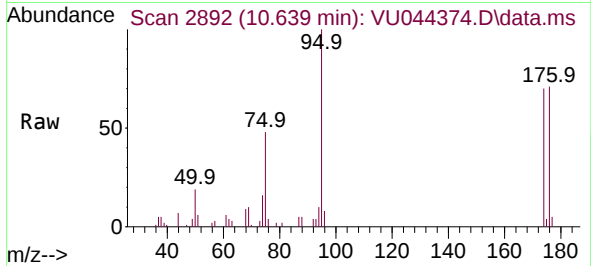




#57
4-Bromofluorobenzene
Concen: 0.932 ug/l
RT: 10.639 min Scan# 2892
Delta R.T. 0.000 min
Lab File: VU044374.D
Acq: 20 Jul 2021 17:11

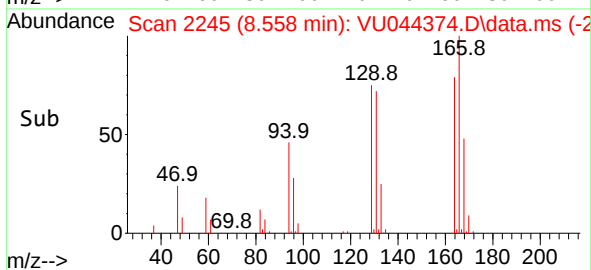
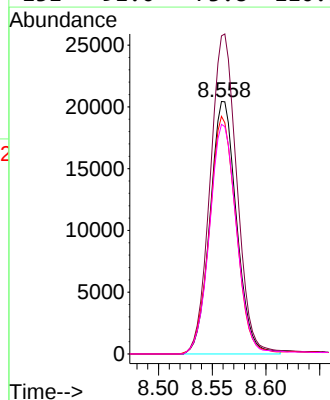
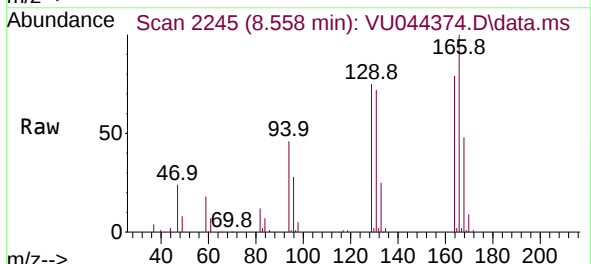
Instrument :
MSVOA_U
ClientSampleId :

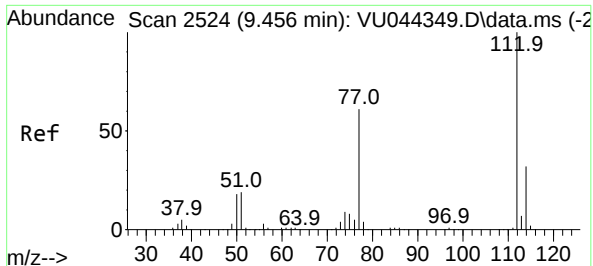
Tgt Ion:	95	Resp:	18669
Ion Ratio	Lower	Upper	
95	100		
174	71.6	62.2	93.2
176	71.5	60.3	90.5



#58
Tetrachloroethene
Concen: 2.796 ug/l
RT: 8.558 min Scan# 2245
Delta R.T. 0.000 min
Lab File: VU044374.D
Acq: 20 Jul 2021 17:11

Tgt Ion:	164	Resp:	35020
Ion Ratio	Lower	Upper	
164	100		
166	126.0	100.2	150.4
129	94.1	76.3	114.5
131	91.0	73.8	110.8

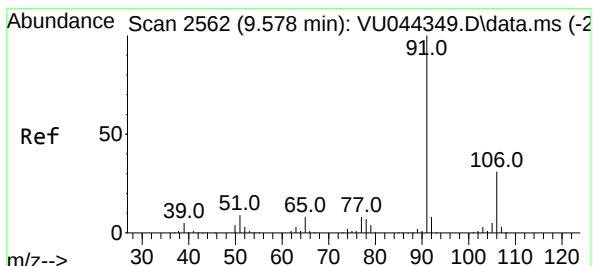
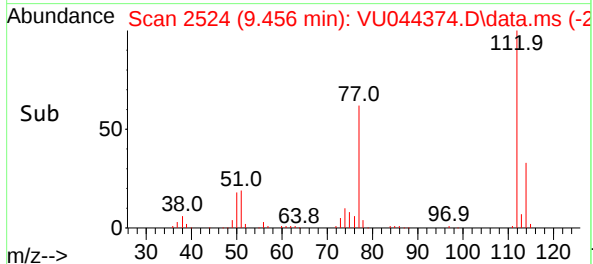
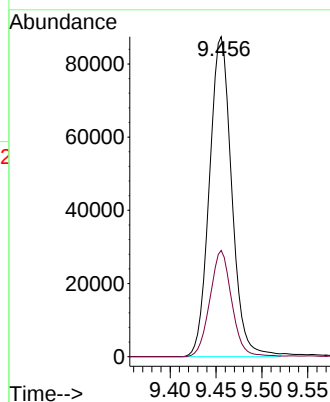
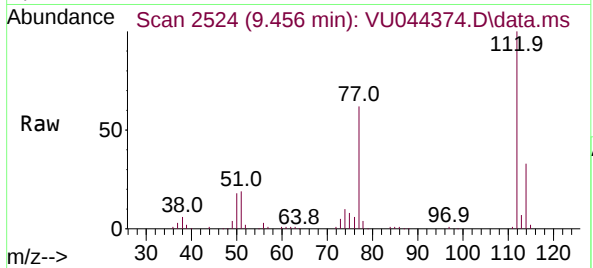




#59
Chlorobenzene
Concen: 3.793 ug/l
RT: 9.456 min Scan# 2524
Delta R.T. 0.000 min
Lab File: VU044374.D
Acq: 20 Jul 2021 17:11

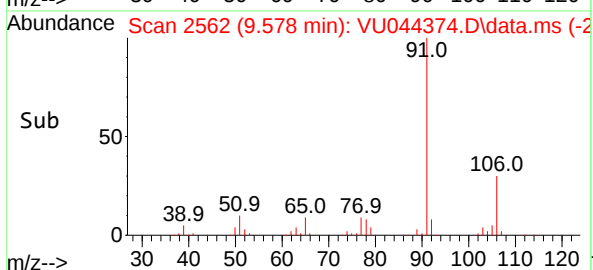
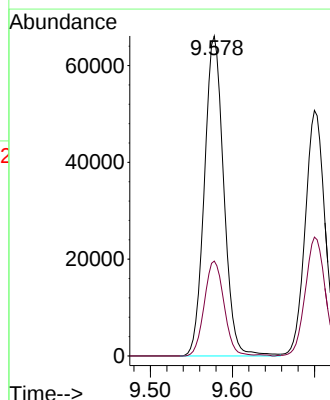
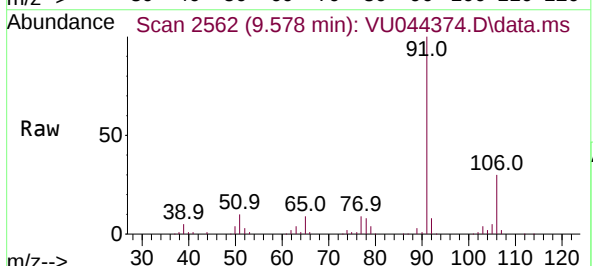
Instrument :
MSVOA_U
ClientSampled :

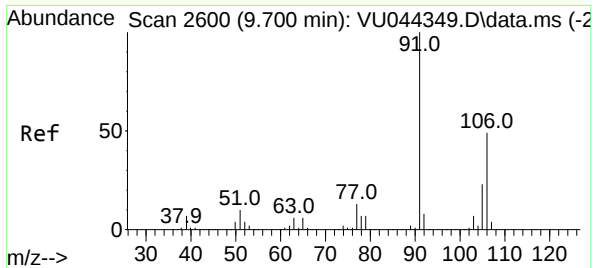
Tgt Ion:112 Resp: 148128
Ion Ratio Lower Upper
112 100
114 33.2 25.0 37.6



#63
Ethyl Benzene
Concen: 1.552 ug/l
RT: 9.578 min Scan# 2562
Delta R.T. 0.000 min
Lab File: VU044374.D
Acq: 20 Jul 2021 17:11

Tgt Ion: 91 Resp: 108311
Ion Ratio Lower Upper
91 100
106 29.7 24.6 37.0

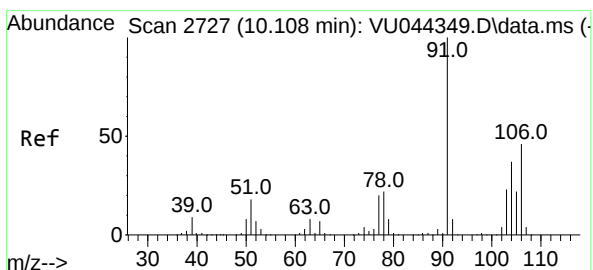
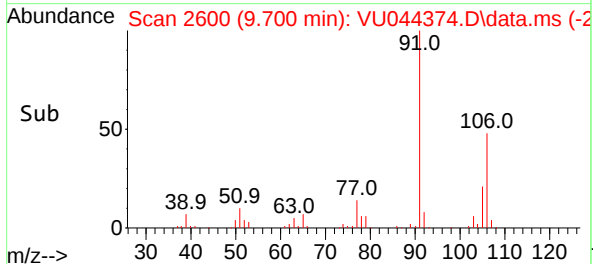
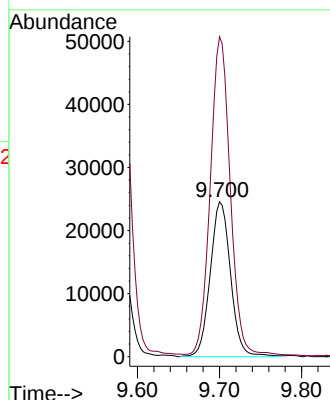
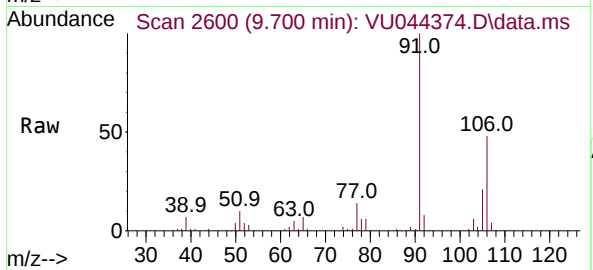




#64
m/p-Xylenes
Concen: 1.583 ug/l
RT: 9.700 min Scan# 2600
Delta R.T. 0.000 min
Lab File: VU044374.D
Acq: 20 Jul 2021 17:11

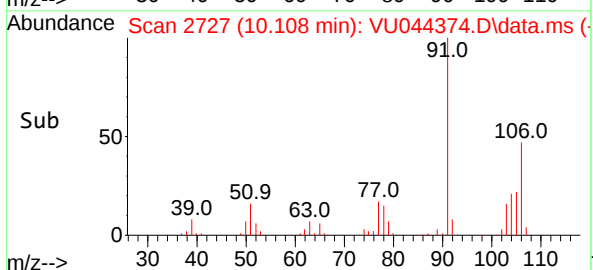
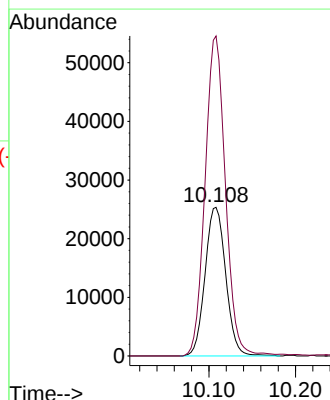
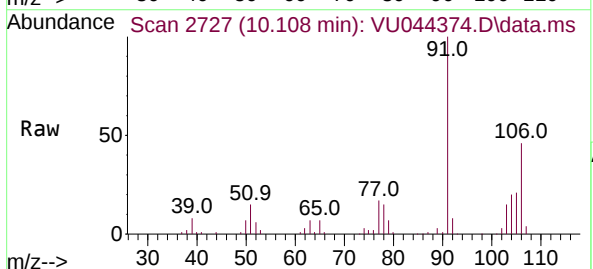
Instrument :
MSVOA_U
ClientSampleId :

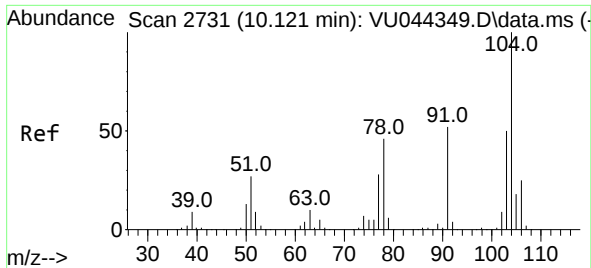
Tgt Ion:106 Resp: 42221
Ion Ratio Lower Upper
106 100
91 204.0 162.5 243.7



#65
o-Xylene
Concen: 1.634 ug/l
RT: 10.108 min Scan# 2727
Delta R.T. 0.000 min
Lab File: VU044374.D
Acq: 20 Jul 2021 17:11

Tgt Ion:106 Resp: 42057
Ion Ratio Lower Upper
106 100
91 210.6 108.2 324.6

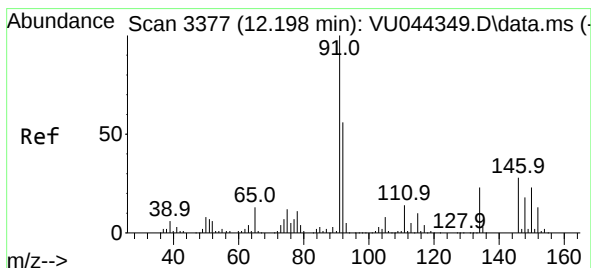
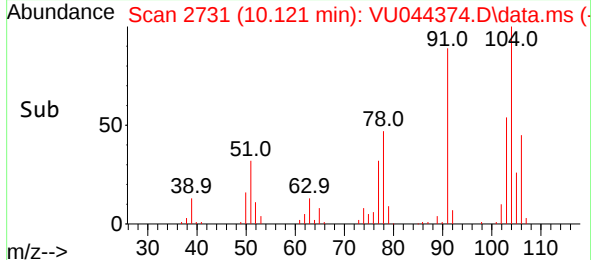
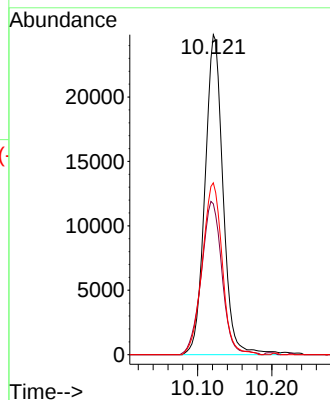
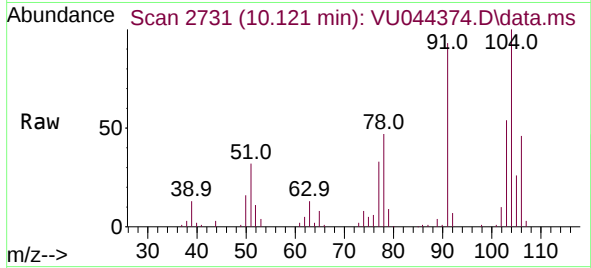




#66
Styrene
Concen: 0.947 ug/l
RT: 10.121 min Scan# 2731
Delta R.T. 0.000 min
Lab File: VU044374.D
Acq: 20 Jul 2021 17:11

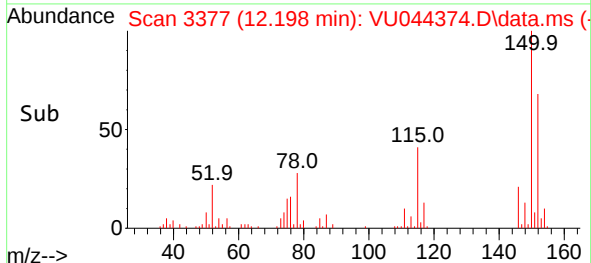
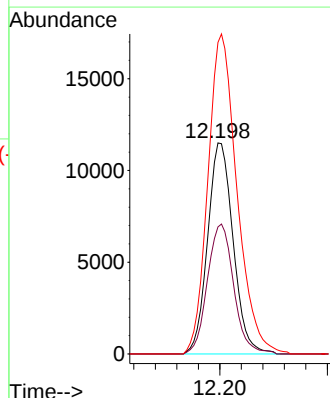
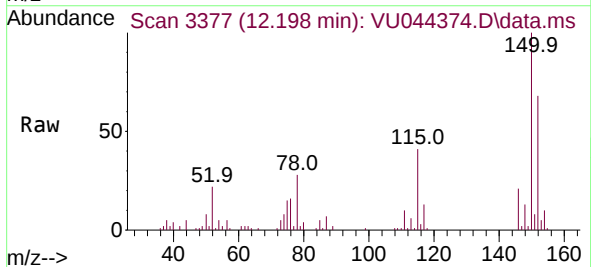
Instrument :
MSVOA_U
ClientSampled :

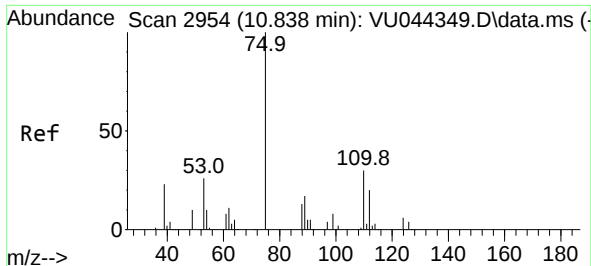
Tgt Ion:104 Resp: 41993
Ion Ratio Lower Upper
104 100
78 54.5 41.6 62.4
103 59.0 43.3 64.9



#68
1,2-Dichlorobenzene-d4
Concen: 0.970 ug/l
RT: 12.198 min Scan# 3377
Delta R.T. 0.000 min
Lab File: VU044374.D
Acq: 20 Jul 2021 17:11

Tgt Ion:152 Resp: 18954
Ion Ratio Lower Upper
152 100
115 63.3 0.0 257.0
150 172.5 0.0 630.2

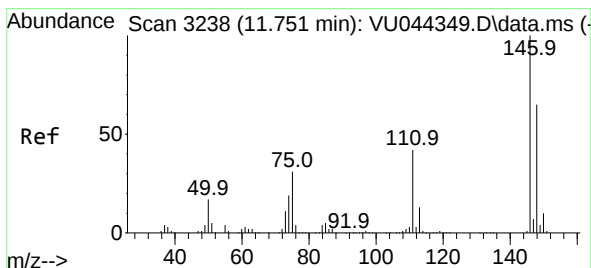
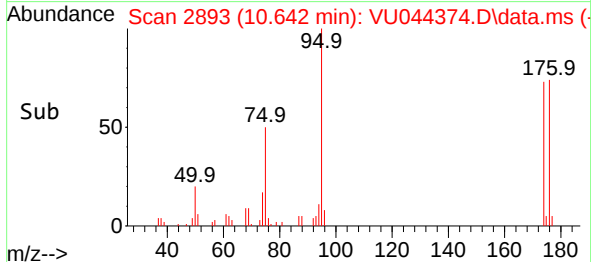
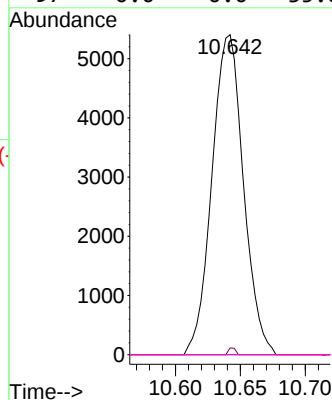
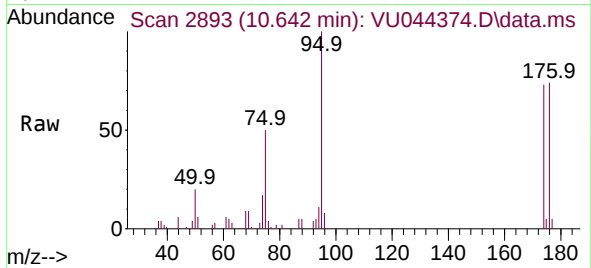




#71
1,2,3-Trichloropropane
Concen: 0.709 ug/l
RT: 10.642 min Scan# 2893
Delta R.T. -0.196 min
Lab File: VU044374.D
Acq: 20 Jul 2021 17:11

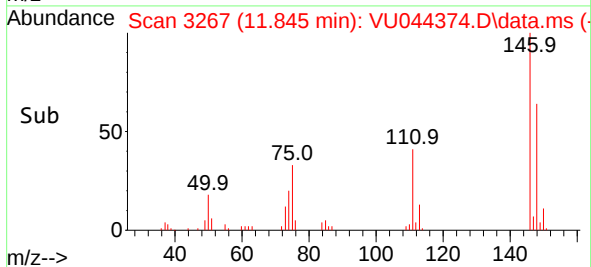
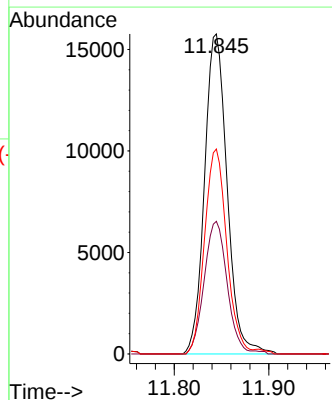
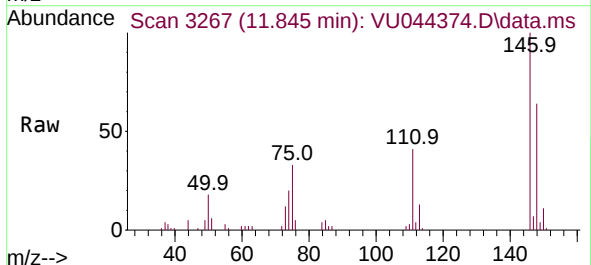
Instrument :
MSVOA_U
ClientSampleId :

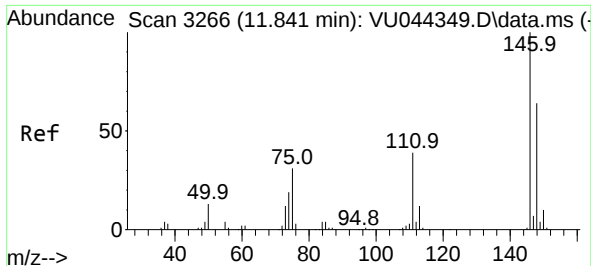
Tgt Ion:	75	Resp:	9111
Ion	Ratio	Lower	Upper
75	100		
77	0.5	0.0	111.4
110	0.0	0.0	74.6
97	0.0	0.0	35.8



#82
1,3-Dichlorobenzene
Concen: 0.827 ug/l
RT: 11.845 min Scan# 3267
Delta R.T. 0.093 min
Lab File: VU044374.D
Acq: 20 Jul 2021 17:11

Tgt Ion:	146	Resp:	26188
Ion	Ratio	Lower	Upper
146	100		
111	42.3	33.3	49.9
148	62.8	50.9	76.3

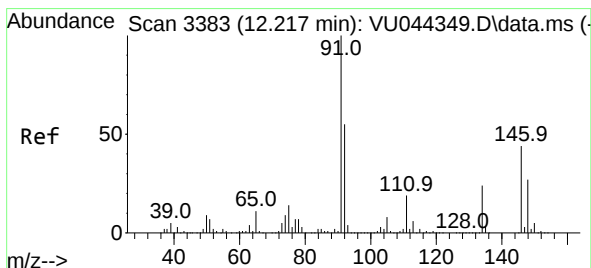
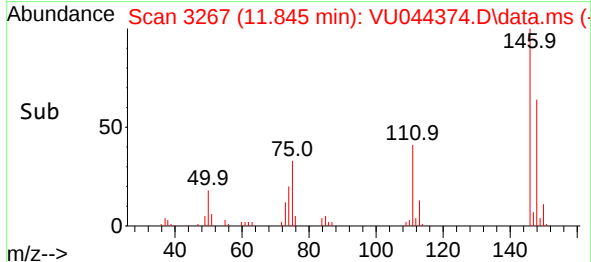
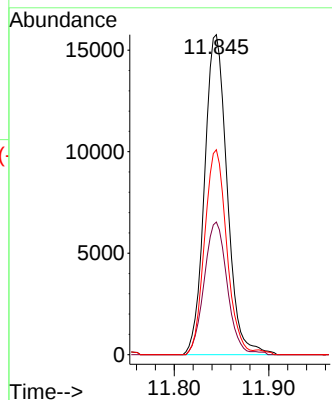
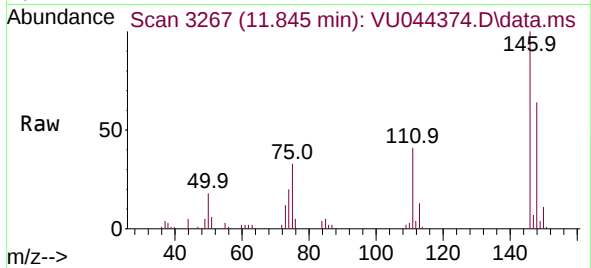




#83
1,4-Dichlorobenzene
Concen: 0.819 ug/l
RT: 11.845 min Scan# 3267
Delta R.T. 0.003 min
Lab File: VU044374.D
Acq: 20 Jul 2021 17:11

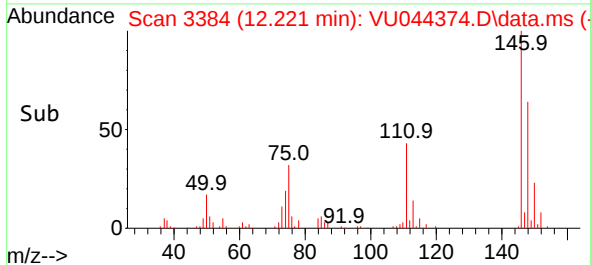
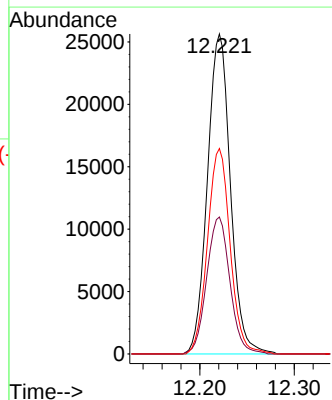
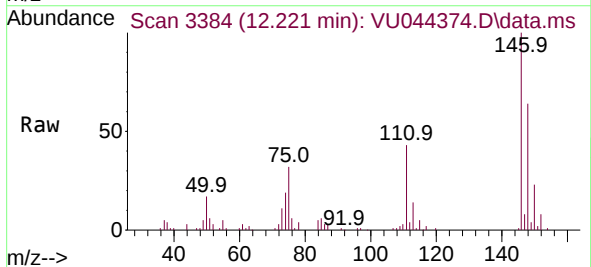
Instrument :
MSVOA_U
ClientSampled :

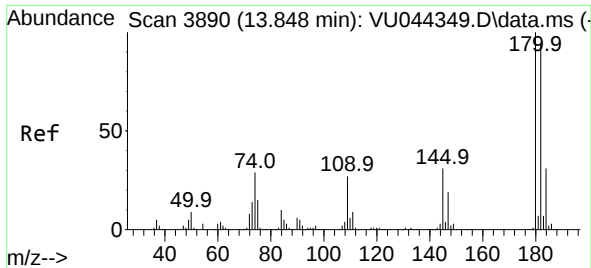
Tgt Ion:146 Resp: 26188
Ion Ratio Lower Upper
146 100
111 42.3 32.6 48.8
148 62.8 50.8 76.2



#85
1,2-Dichlorobenzene
Concen: 1.413 ug/l
RT: 12.221 min Scan# 3384
Delta R.T. 0.003 min
Lab File: VU044374.D
Acq: 20 Jul 2021 17:11

Tgt Ion:146 Resp: 43352
Ion Ratio Lower Upper
146 100
111 43.2 21.6 64.6
148 63.4 31.9 95.7





#87
 1,2,4-Trichlorobenzene
 Concen: 3.528 ug/l
 RT: 13.848 min Scan# 3890
 Delta R.T. 0.000 min
 Lab File: VU044374.D
 Acq: 20 Jul 2021 17:11

Instrument :
 MSVOA_U
 ClientSampleId :

Tgt Ion:180 Resp: 76552
 Ion Ratio Lower Upper
 180 100
 182 94.7 77.0 115.6
 145 30.4 25.8 38.6

