

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU012921\
 Data File : VU042223.D
 Acq On : 29 Jan 2021 14:30
 Operator : SY/MD
 Sample : M1126-07
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-RVOA-WS

Quant Time: Jan 30 00:51:03 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)

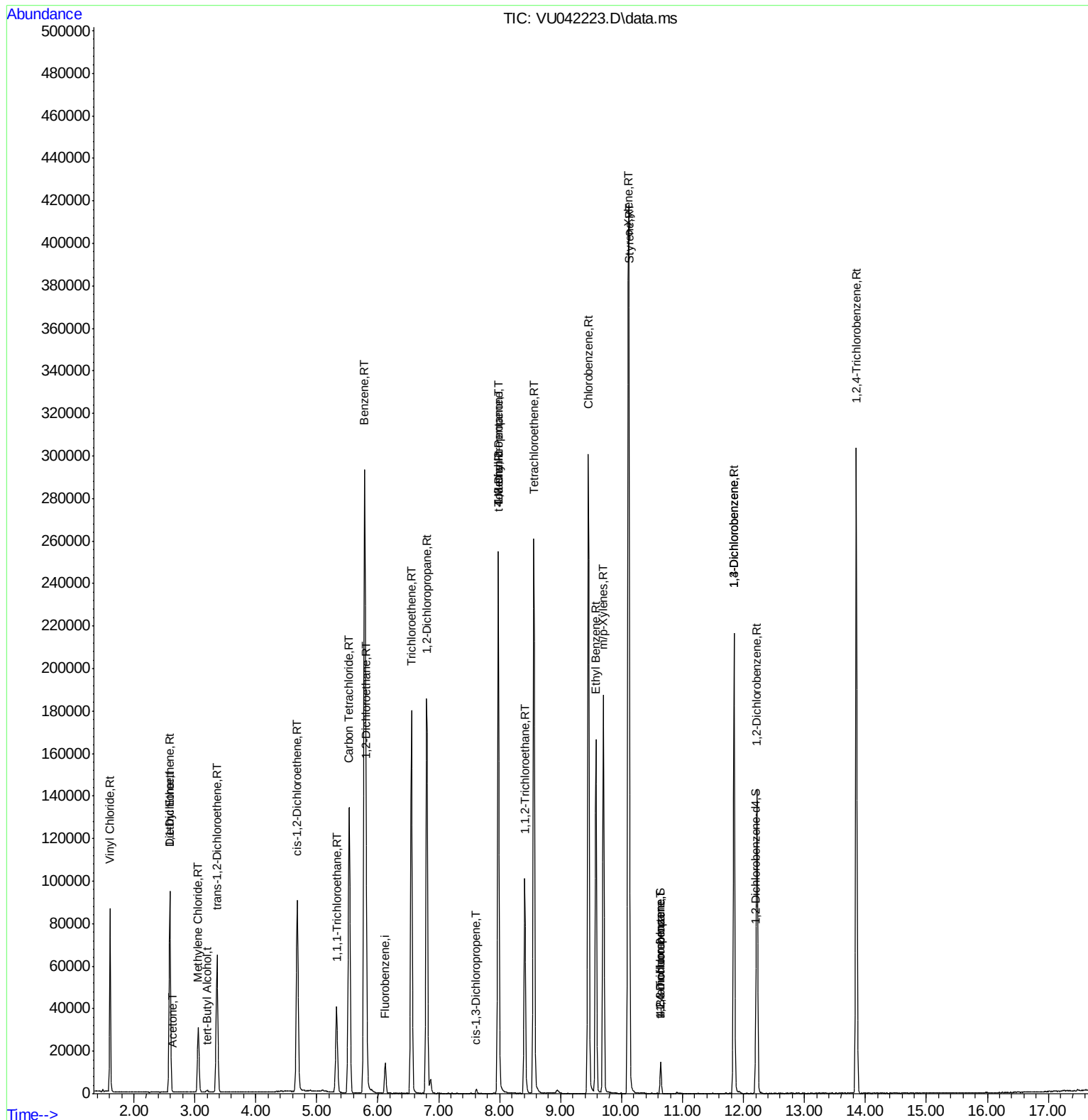
Internal Standards						
1) Fluorobenzene	6.125	96	12342	1.00	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.642	95	4700	0.98	ug/l	0.00
Spiked Amount	1.000		Recovery	=	98.00%	
68) 1,2-Dichlorobenzene-d4	12.205	152	5272	1.08	ug/l	0.00
Spiked Amount	1.000		Recovery	=	108.00%	
Target Compounds						
						Qvalue
4) Vinyl Chloride	1.607	62	58706	14.03	ug/l	100
9) 1,1-Dichloroethene	2.591	96	29571	10.54	ug/l	98
13) Acetone	2.633	43	207	0.43	ug/l #	48
15) Methylene Chloride	3.054	84	13249	3.77	ug/l	96
16) trans-1,2-Dichloroethene	3.363	96	24900	8.23	ug/l	97
22) cis-1,2-Dichloroethene	4.681	96	43527	12.93	ug/l	85
23) Diethyl Ether	2.591	59	1896	0.82	ug/l #	12
24) tert-Butyl Alcohol	3.199	59	581	3.46	ug/l #	72
28) 1,1,1-Trichloroethane	5.324	97	28141	5.09	ug/l	97
30) Carbon Tetrachloride	5.530	117	88492	16.93	ug/l	98
35) Benzene	5.784	78	242921	17.79	ug/l	99
36) 1,2-Dichloroethane	5.809	62	84898	17.22	ug/l	100
37) Trichloroethene	6.552	130	58433	15.95	ug/l	100
38) 1,2-Dichloropropane	6.803	63	66162	17.79	ug/l	100
45) 4-Methyl-2-Pentanone	7.980	43	1390	0.43	ug/l #	15
46) t-1,4-Dichloro-2-butene	10.639	75	2686	2.58	ug/l #	16
49) Toluene	7.980	92	101176	11.91	ug/l	99
50) t-1,3-Dichloropropene	7.977	75	1328	0.27	ug/l #	1
51) cis-1,3-Dichloropropene	7.616	75	1140	0.21	ug/l	95
52) 1,1,2-Trichloroethane	8.411	97	30728	11.53	ug/l	98
58) Tetrachloroethene	8.562	164	56785	17.74	ug/l	98
59) Chlorobenzene	9.456	112	151901	16.44	ug/l	99
63) Ethyl Benzene	9.578	91	113616	6.77	ug/l	99
64) m/p-Xylenes	9.703	106	50173	8.05	ug/l	98
65) o-Xylene	10.108	106	75031	12.21	ug/l	100
66) Styrene	10.121	104	103820	10.07	ug/l	97
71) 1,2,3-Trichloropropane	10.639	75	2686	0.97	ug/l #	36
82) 1,3-Dichlorobenzene	11.845	146	85309	10.82	ug/l	99
83) 1,4-Dichlorobenzene	11.845	146	85309	10.74	ug/l	98
85) 1,2-Dichlorobenzene	12.221	146	54551	7.11	ug/l	100
87) 1,2,4-Trichlorobenzene	13.851	180	96139	16.30	ug/l	99

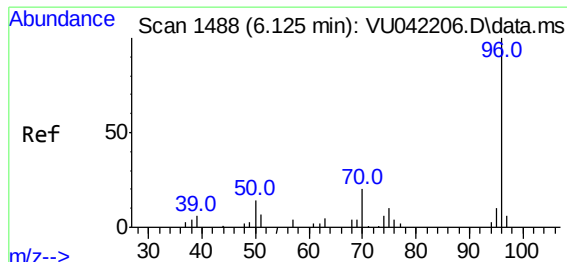
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU012921\
Data File : VU042223.D
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ALS Vial : 10 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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Quant Time: Jan 30 00:51:03 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



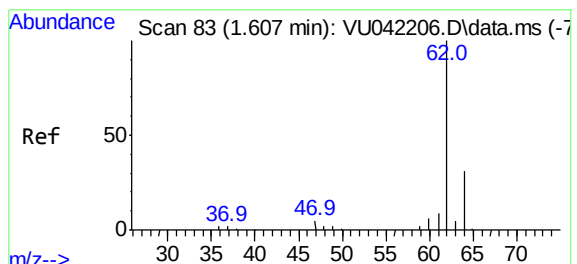
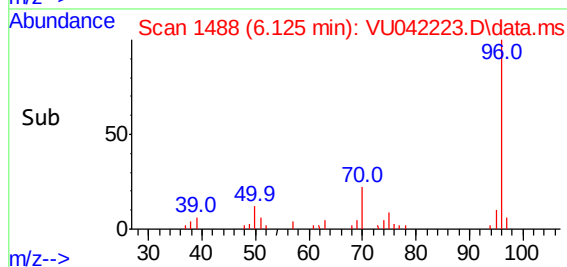
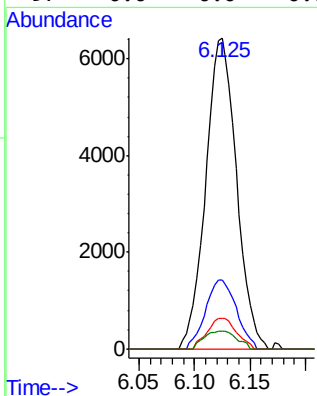
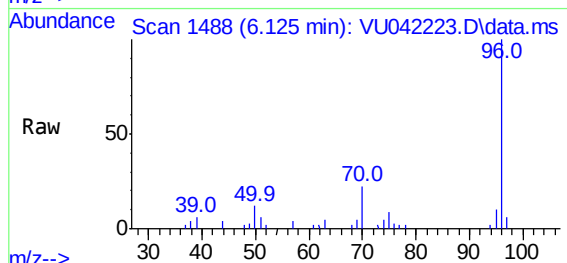


#1
Fluorobenzene
Concen: 1.00 ug/l
RT: 6.125 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VU042223.D
Acq: 29 Jan 2021 14:30

Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WS

Tgt Ion: 96 Resp: 12342

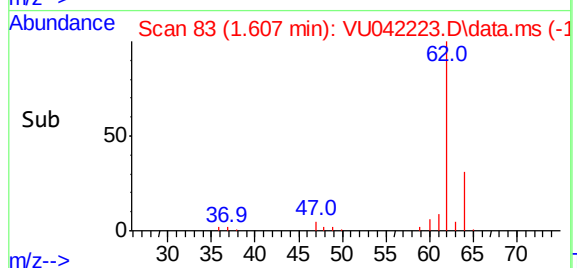
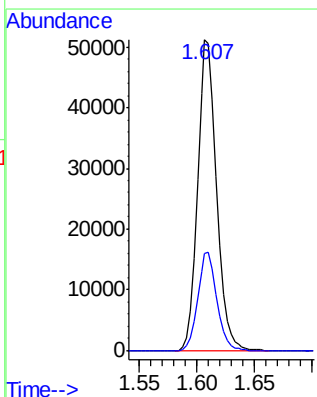
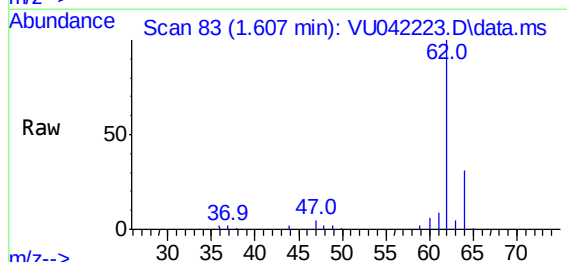
Ion	Ratio	Lower	Upper
96	100		
70	22.2	16.3	24.5
95	0.0	7.6	11.4#
97	0.0	0.0	0.0

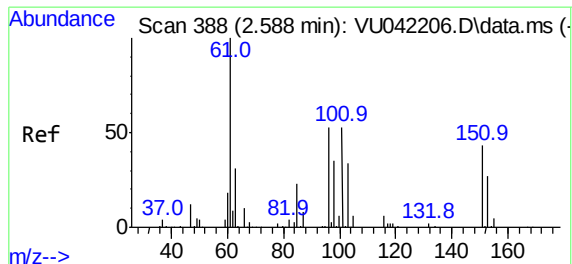


#4
Vinyl Chloride
Concen: 14.03 ug/l
RT: 1.607 min Scan# 83
Delta R.T. 0.000 min
Lab File: VU042223.D
Acq: 29 Jan 2021 14:30

Tgt Ion: 62 Resp: 58706

Ion	Ratio	Lower	Upper
62	100		
64	31.3	25.1	37.7

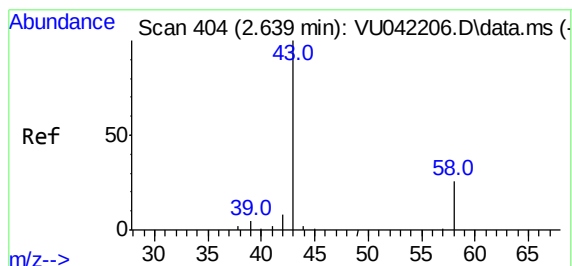
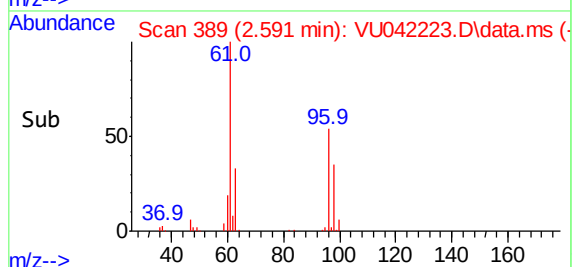
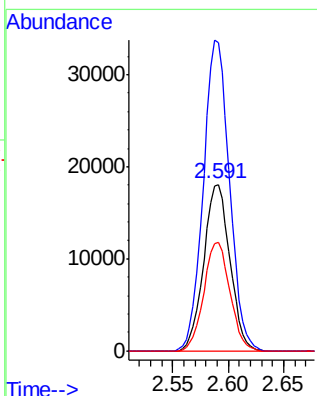
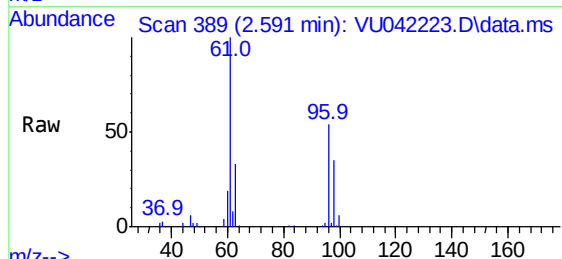




#9
1,1-Dichloroethene
Concen: 10.54 ug/l
RT: 2.591 min Scan# 389
Delta R.T. 0.003 min
Lab File: VU042223.D
Acq: 29 Jan 2021 14:30

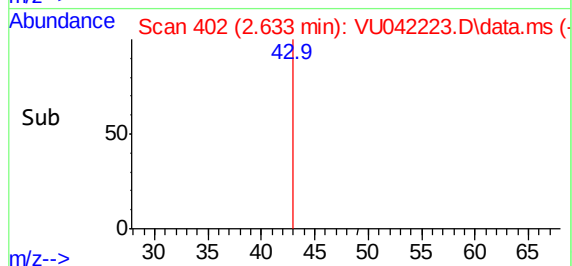
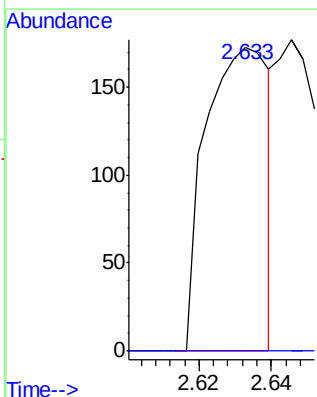
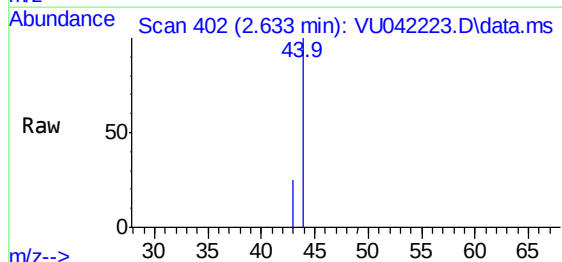
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WS

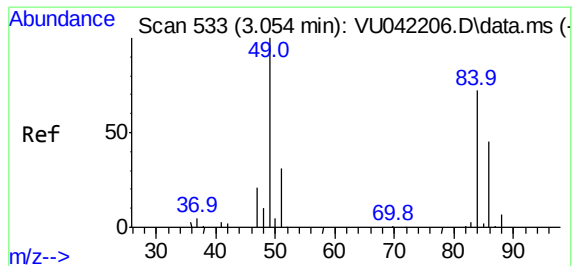
Tgt Ion: 96 Resp: 29571
Ion Ratio Lower Upper
96 100
61 184.8 0.0 565.8
98 65.1 0.0 131.2



#13
Acetone
Concen: 0.43 ug/l
RT: 2.633 min Scan# 402
Delta R.T. -0.006 min
Lab File: VU042223.D
Acq: 29 Jan 2021 14:30

Tgt Ion: 43 Resp: 207
Ion Ratio Lower Upper
43 100
58 0.0 21.2 31.8#

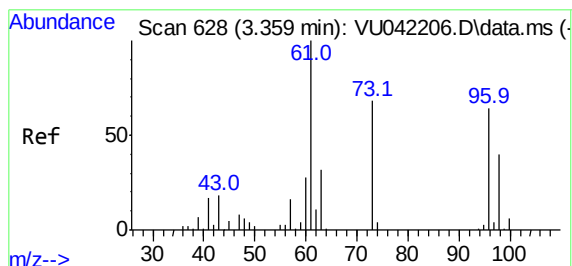
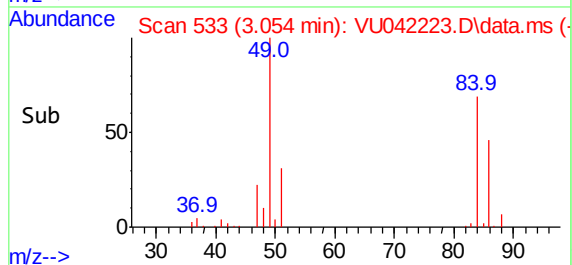
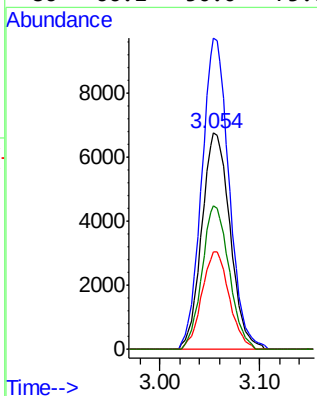
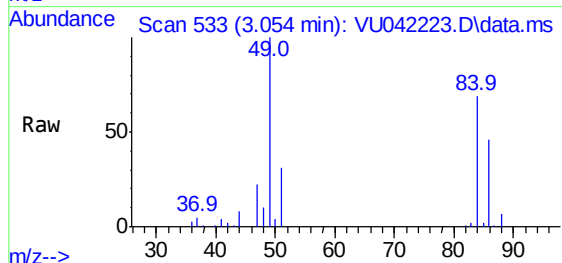




#15
Methylene Chloride
Concen: 3.77 ug/l
RT: 3.054 min Scan# 533
Delta R.T. -0.000 min
Lab File: VU042223.D
Acq: 29 Jan 2021 14:30

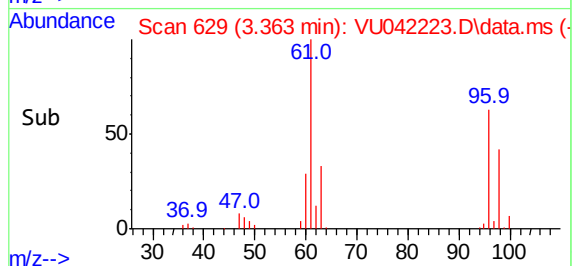
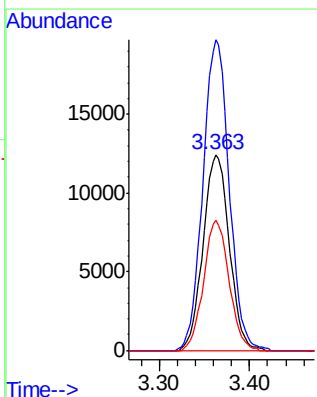
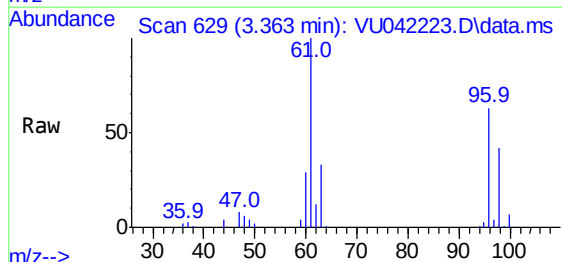
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WS

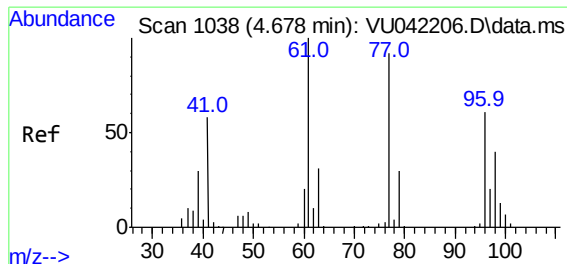
Tgt Ion: 84 Resp: 13249
Ion Ratio Lower Upper
84 100
49 144.0 111.8 167.6
51 45.0 0.0 85.4
86 66.1 50.0 75.0



#16
trans-1,2-Dichloroethene
Concen: 8.23 ug/l
RT: 3.363 min Scan# 629
Delta R.T. 0.004 min
Lab File: VU042223.D
Acq: 29 Jan 2021 14:30

Tgt Ion: 96 Resp: 24900
Ion Ratio Lower Upper
96 100
61 158.6 124.2 186.4
98 66.3 49.7 74.5



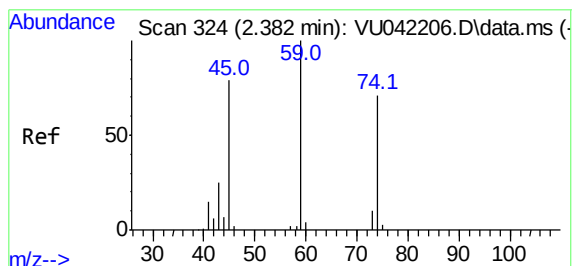
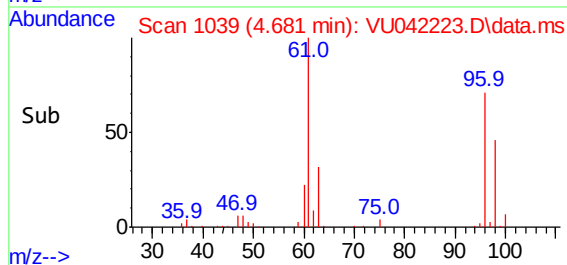
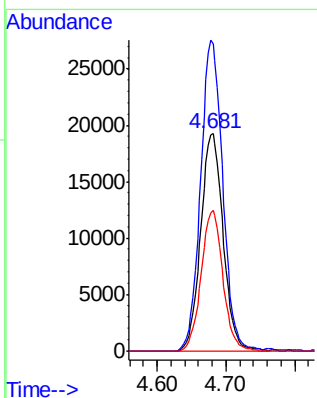
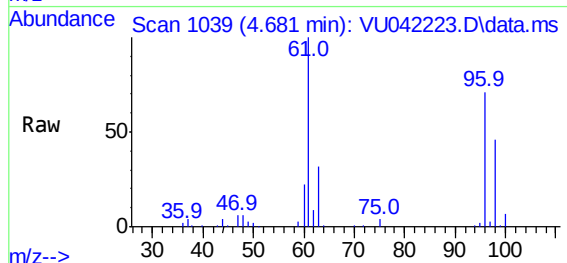


#22
 cis-1,2-Dichloroethene
 Concen: 12.93 ug/l
 RT: 4.681 min Scan# 1039
 Delta R.T. 0.003 min
 Lab File: VU042223.D
 Acq: 29 Jan 2021 14:30

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-RVOA-WS

Tgt Ion: 96 Resp: 43527

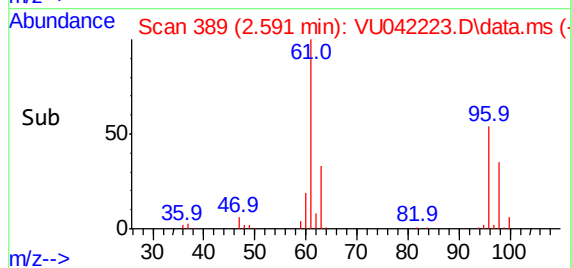
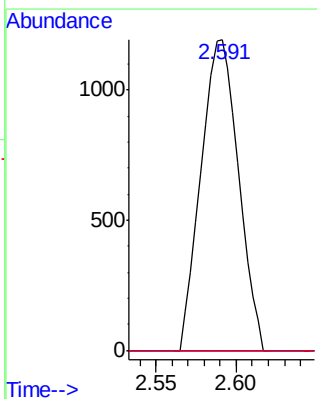
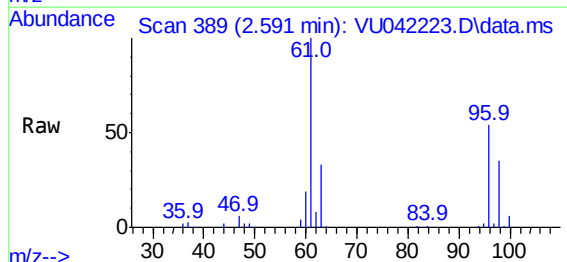
Ion	Ratio	Lower	Upper
96	100		
61	141.1	0.0	416.2
98	62.4	32.7	98.1

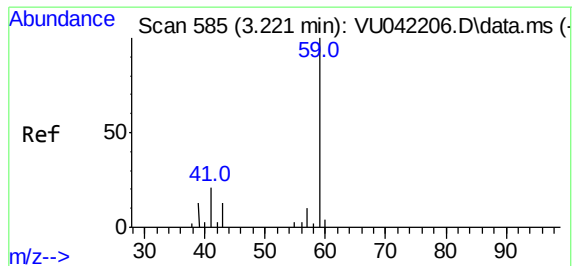


#23
 Diethyl Ether
 Concen: 0.82 ug/l
 RT: 2.591 min Scan# 389
 Delta R.T. 0.209 min
 Lab File: VU042223.D
 Acq: 29 Jan 2021 14:30

Tgt Ion: 59 Resp: 1896

Ion	Ratio	Lower	Upper
59	100		
45	0.0	63.8	95.8#
74	0.0	56.3	84.5#

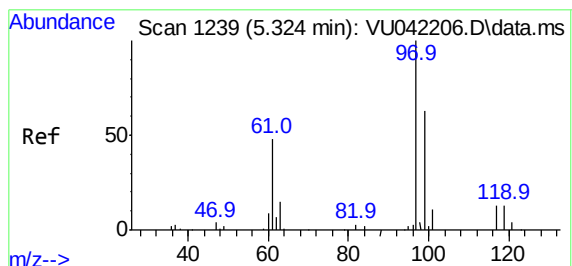
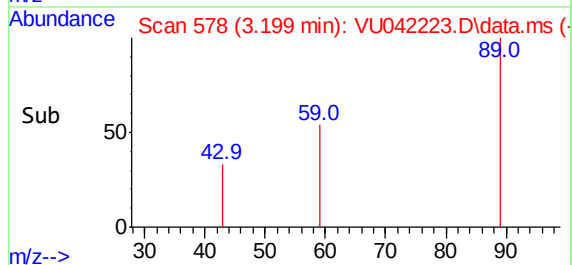
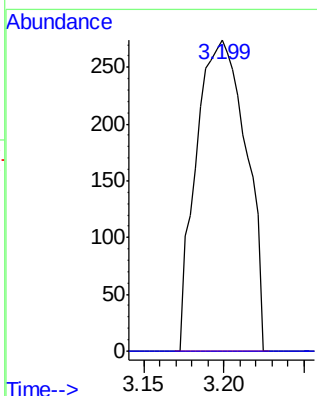
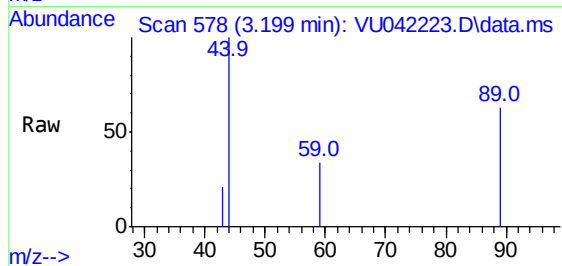




#24
tert-Butyl Alcohol
Concen: 3.46 ug/l
RT: 3.199 min Scan# 578
Delta R.T. -0.022 min
Lab File: VU042223.D
Acq: 29 Jan 2021 14:30

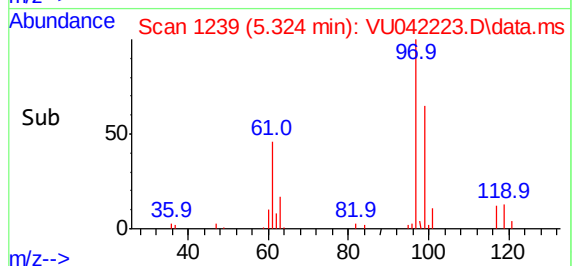
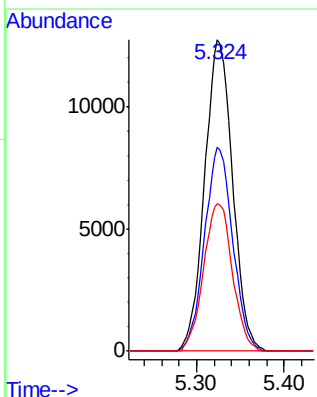
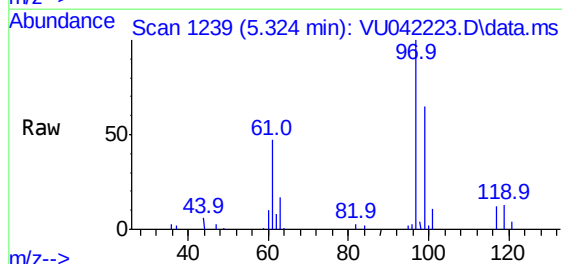
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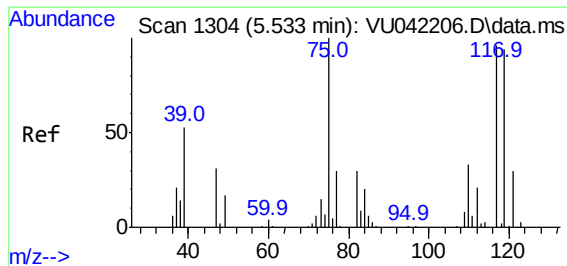
Tgt Ion: 59 Resp: 581
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#



#28
1,1,1-Trichloroethane
Concen: 5.09 ug/l
RT: 5.324 min Scan# 1239
Delta R.T. -0.000 min
Lab File: VU042223.D
Acq: 29 Jan 2021 14:30

Tgt Ion: 97 Resp: 28141
Ion Ratio Lower Upper
97 100
99 65.9 31.9 95.7
61 48.6 23.3 69.8

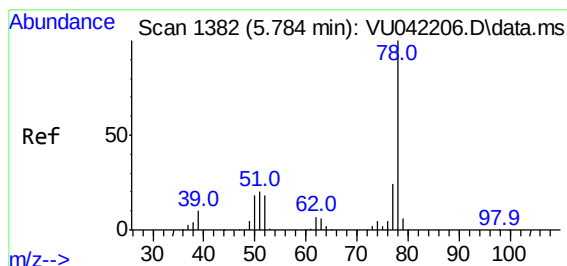
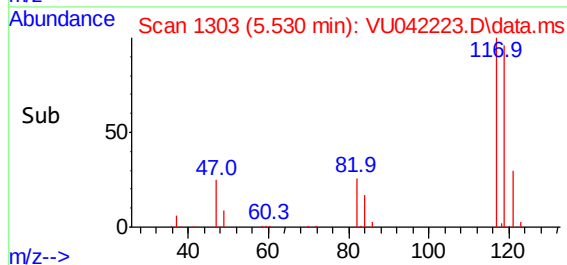
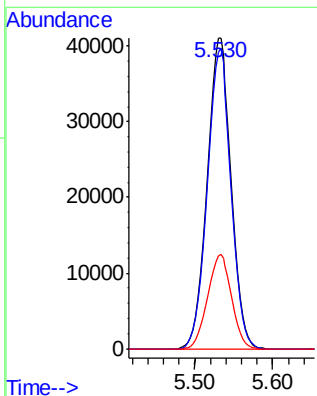
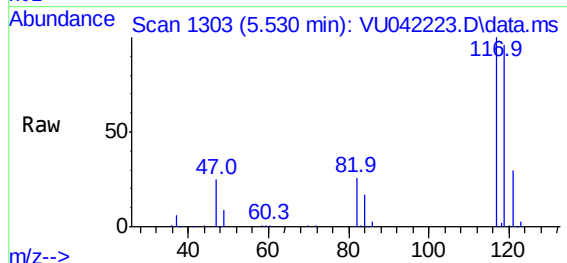




#30
Carbon Tetrachloride
Concen: 16.93 ug/l
RT: 5.530 min Scan# 1303
Delta R.T. -0.003 min
Lab File: VU042223.D
Acq: 29 Jan 2021 14:30

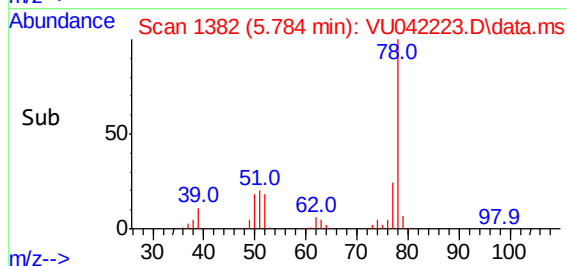
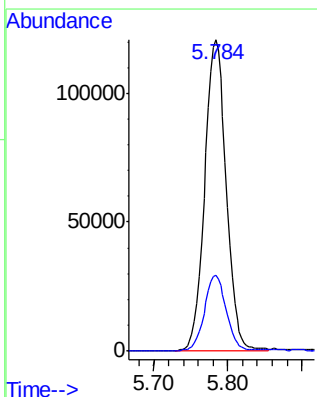
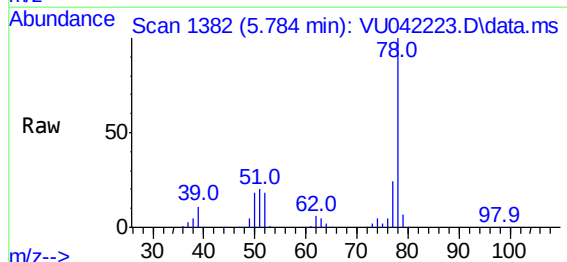
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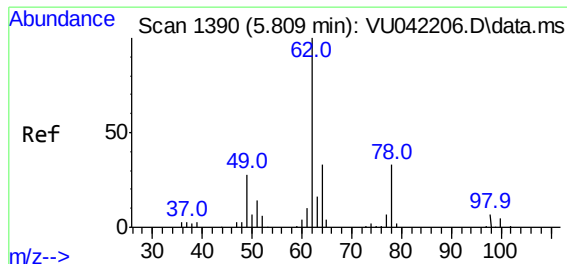
Tgt Ion:117 Resp: 88492
Ion Ratio Lower Upper
117 100
119 95.7 78.1 117.1
121 30.1 25.1 37.7



#35
Benzene
Concen: 17.79 ug/l
RT: 5.784 min Scan# 1382
Delta R.T. -0.000 min
Lab File: VU042223.D
Acq: 29 Jan 2021 14:30

Tgt Ion: 78 Resp: 242921
Ion Ratio Lower Upper
78 100
77 24.0 19.4 29.2

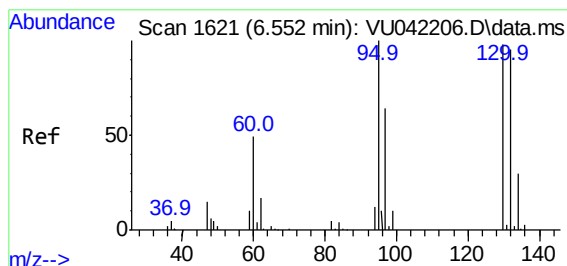
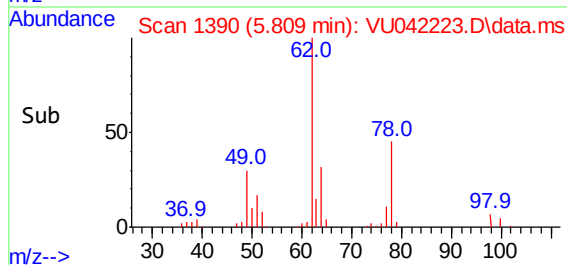
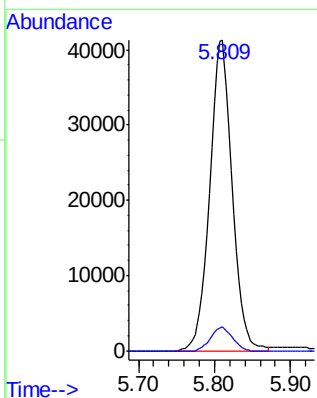
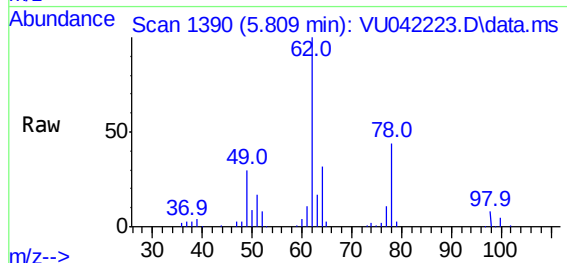




#36
1,2-Dichloroethane
Concen: 17.22 ug/l
RT: 5.809 min Scan# 1390
Delta R.T. 0.000 min
Lab File: VU042223.D
Acq: 29 Jan 2021 14:30

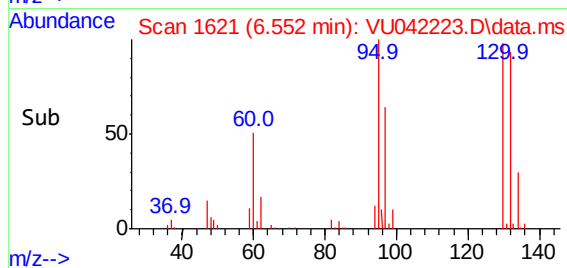
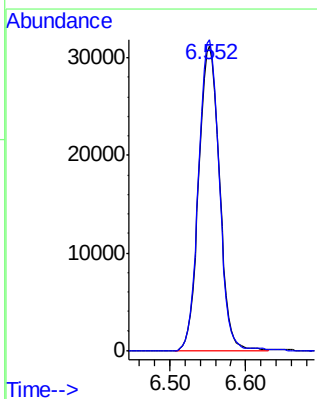
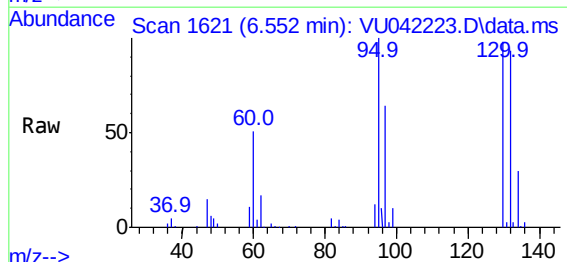
Instrument :
MSVOA_U
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PT-RVOA-WS

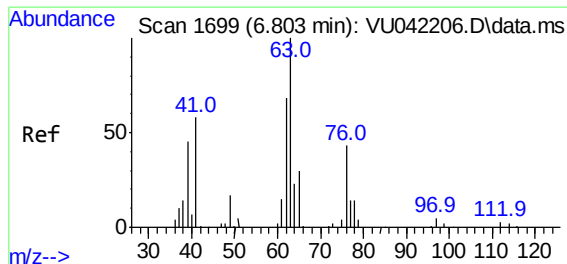
Tgt Ion: 62 Resp: 84898
Ion Ratio Lower Upper
62 100
98 7.2 5.8 8.8



#37
Trichloroethene
Concen: 15.95 ug/l
RT: 6.552 min Scan# 1621
Delta R.T. 0.000 min
Lab File: VU042223.D
Acq: 29 Jan 2021 14:30

Tgt Ion: 130 Resp: 58433
Ion Ratio Lower Upper
130 100
95 102.1 81.4 122.0

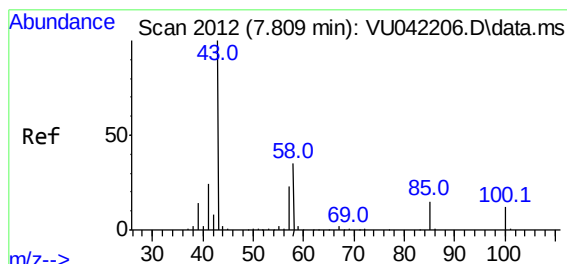
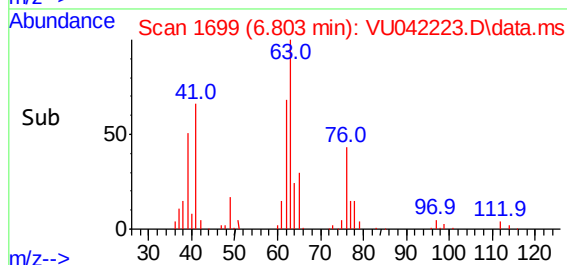
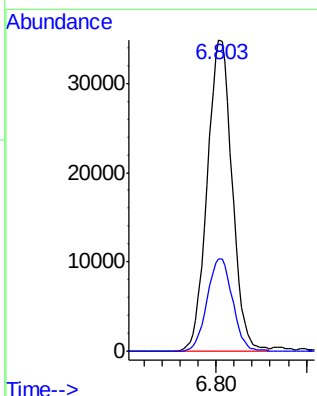
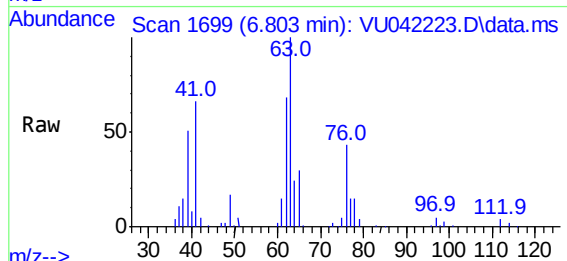




#38
1,2-Dichloropropane
Concen: 17.79 ug/l
RT: 6.803 min Scan# 1699
Delta R.T. -0.000 min
Lab File: VU042223.D
Acq: 29 Jan 2021 14:30

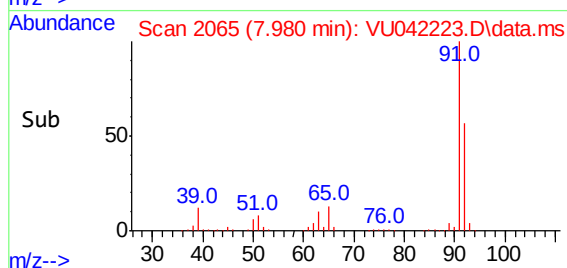
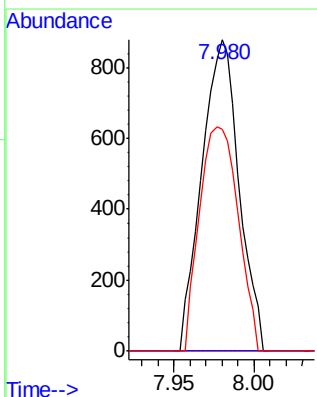
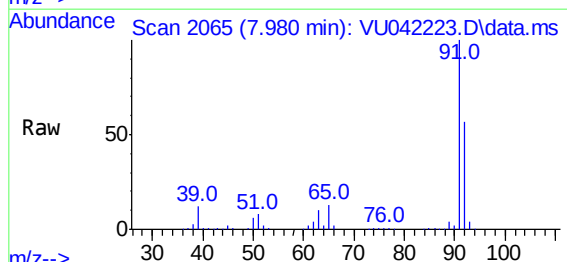
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WS

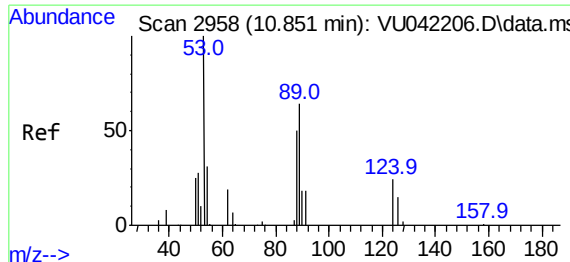
Tgt Ion: 63 Resp: 66162
Ion Ratio Lower Upper
63 100
65 29.8 23.8 35.6



#45
4-Methyl-2-Pentanone
Concen: 0.43 ug/l
RT: 7.980 min Scan# 2065
Delta R.T. 0.170 min
Lab File: VU042223.D
Acq: 29 Jan 2021 14:30

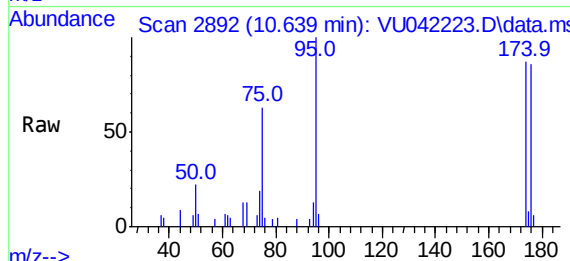
Tgt Ion: 43 Resp: 1390
Ion Ratio Lower Upper
43 100
58 0.0 17.5 52.5#
85 74.7 12.1 18.1#





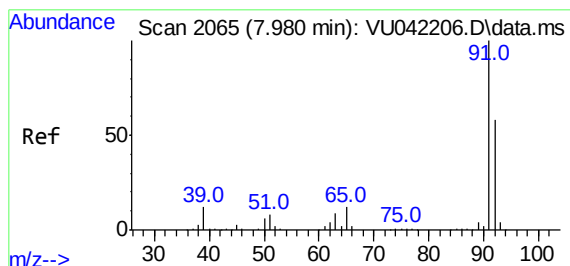
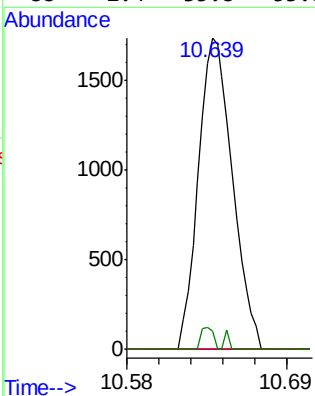
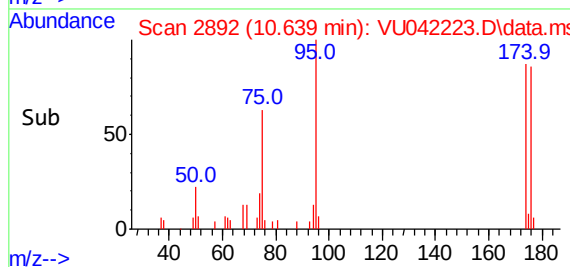
#46
t-1,4-Dichloro-2-butene
Concen: 2.58 ug/l
RT: 10.639 min Scan# 2892
Delta R.T. -0.212 min
Lab File: VU042223.D
Acq: 29 Jan 2021 14:30

Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WS



Tgt Ion: 75 Resp: 2686

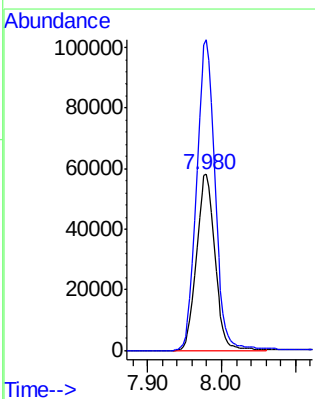
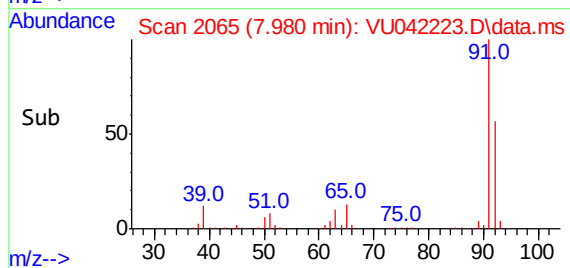
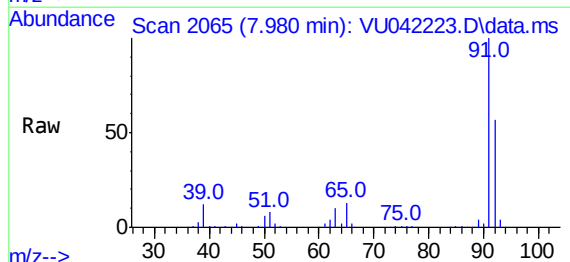
Ion	Ratio	Lower	Upper
75	100		
53	0.0	75.9	113.9#
89	0.0	45.1	67.7#
88	2.4	35.8	53.8#

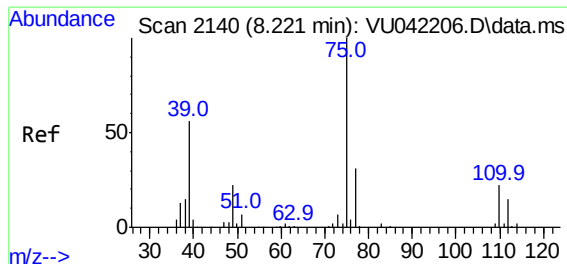


#49
Toluene
Concen: 11.91 ug/l
RT: 7.980 min Scan# 2065
Delta R.T. -0.000 min
Lab File: VU042223.D
Acq: 29 Jan 2021 14:30

Tgt Ion: 92 Resp: 101176

Ion	Ratio	Lower	Upper
92	100		
91	176.2	139.6	209.4

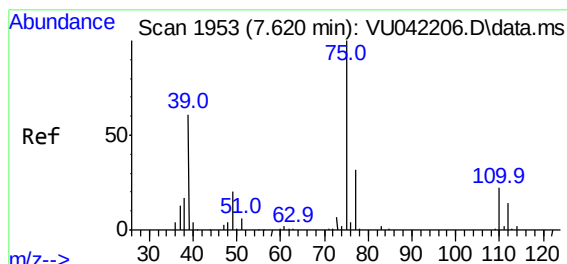
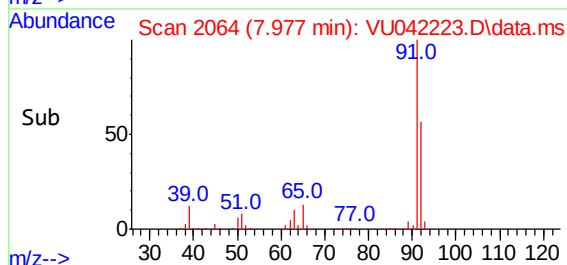
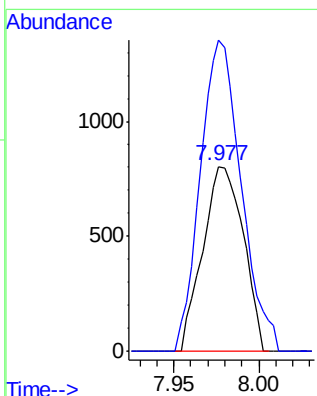
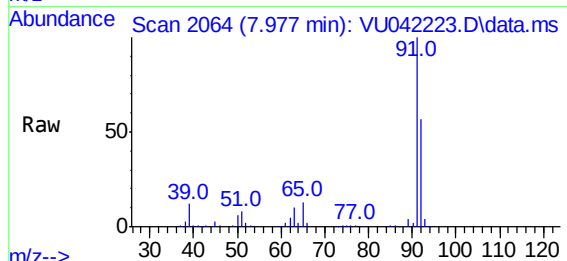




#50
t-1,3-Dichloropropene
Concen: 0.27 ug/l
RT: 7.977 min Scan# 2064
Delta R.T. -0.244 min
Lab File: VU042223.D
Acq: 29 Jan 2021 14:30

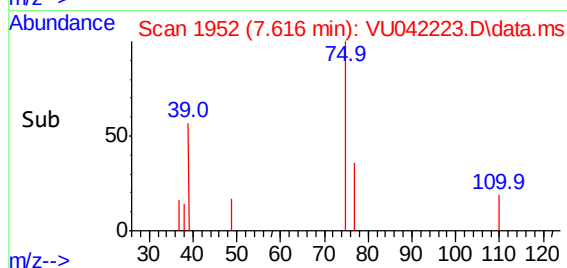
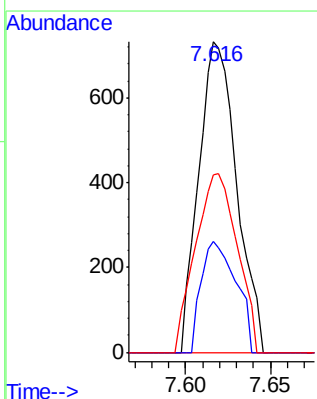
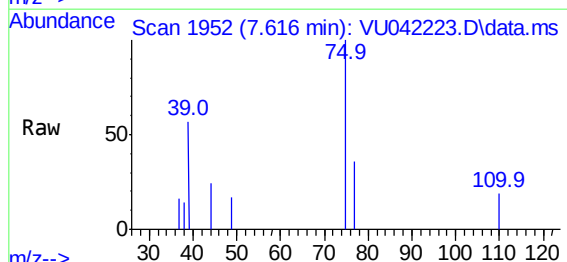
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WS

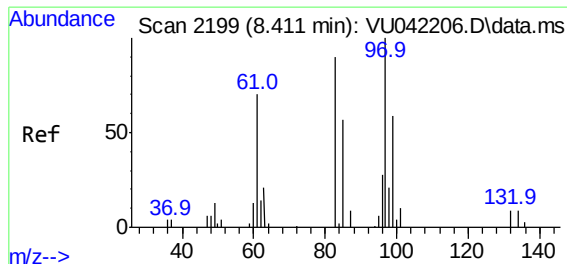
Tgt Ion: 75 Resp: 1328
Ion Ratio Lower Upper
75 100
77 168.7 24.9 37.3#



#51
cis-1,3-Dichloropropene
Concen: 0.21 ug/l
RT: 7.616 min Scan# 1952
Delta R.T. -0.004 min
Lab File: VU042223.D
Acq: 29 Jan 2021 14:30

Tgt Ion: 75 Resp: 1140
Ion Ratio Lower Upper
75 100
77 35.8 25.6 38.4
39 57.1 48.6 72.8



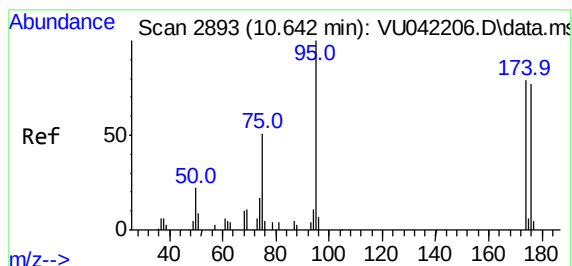
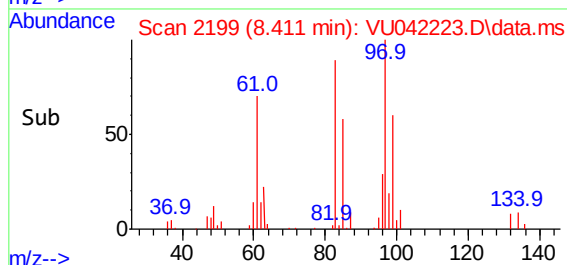
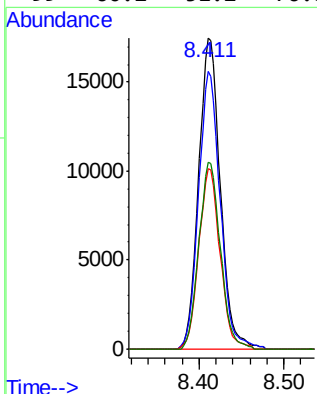
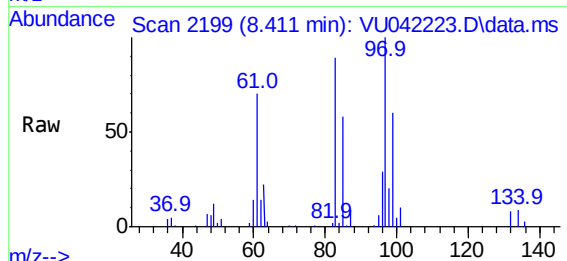


#52
1,1,2-Trichloroethane
Concen: 11.53 ug/l
RT: 8.411 min Scan# 2199
Delta R.T. -0.000 min
Lab File: VU042223.D
Acq: 29 Jan 2021 14:30

Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WS

Tgt Ion: 97 Resp: 30728

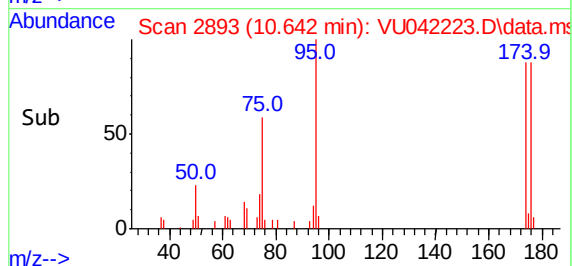
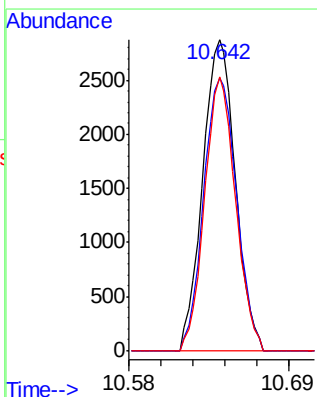
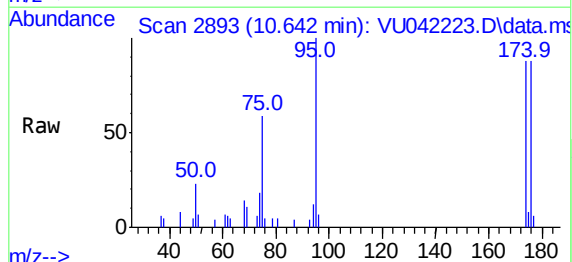
Ion	Ratio	Lower	Upper
97	100		
83	89.4	71.9	107.9
85	57.8	46.2	69.4
99	60.2	51.2	76.8

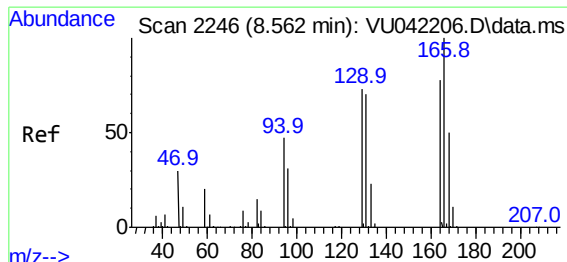


#57
4-Bromofluorobenzene
Concen: 0.98 ug/l
RT: 10.642 min Scan# 2893
Delta R.T. 0.000 min
Lab File: VU042223.D
Acq: 29 Jan 2021 14:30

Tgt Ion: 95 Resp: 4700

Ion	Ratio	Lower	Upper
95	100		
174	88.7	69.6	104.4
176	83.5	65.5	98.3





#58

Tetrachloroethene

Concen: 17.74 ug/l

RT: 8.562 min Scan# 2246

Delta R.T. -0.000 min

Lab File: VU042223.D

Acq: 29 Jan 2021 14:30

Instrument :

MSVOA_U

ClientSampleId :

PT-RVOA-WS

Tgt Ion:164 Resp: 56785

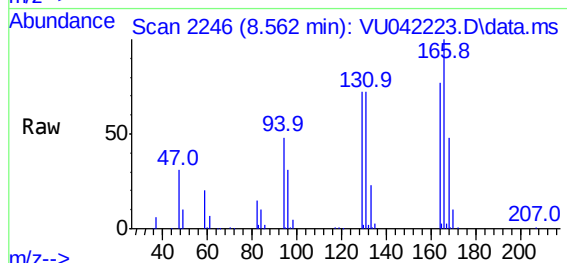
Ion Ratio Lower Upper

164 100

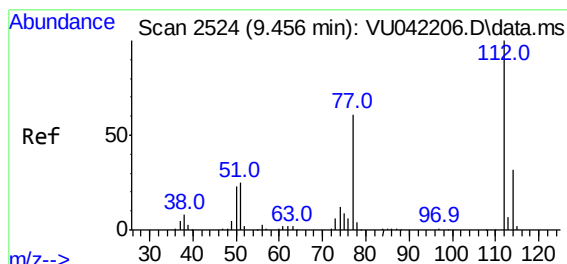
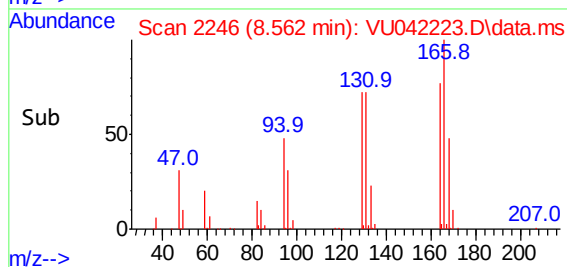
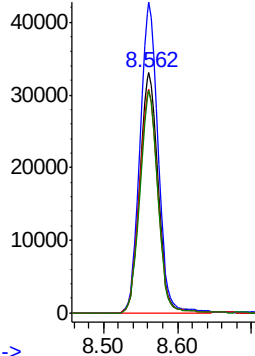
166 129.5 102.2 153.2

129 93.0 74.4 111.6

131 92.7 71.8 107.6



Abundance



#59

Chlorobenzene

Concen: 16.44 ug/l

RT: 9.456 min Scan# 2524

Delta R.T. -0.000 min

Lab File: VU042223.D

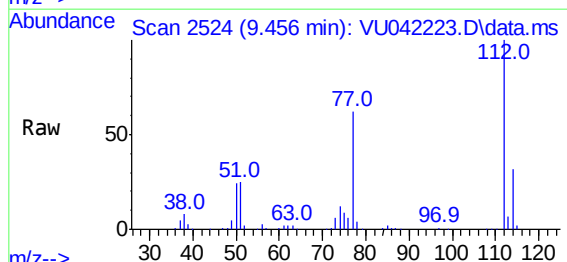
Acq: 29 Jan 2021 14:30

Tgt Ion:112 Resp: 151901

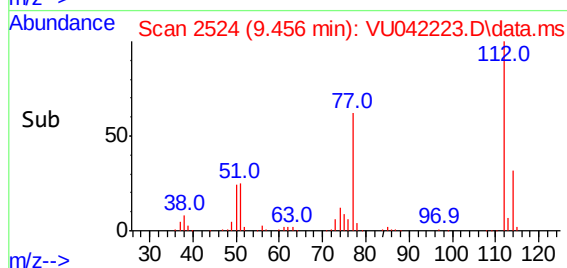
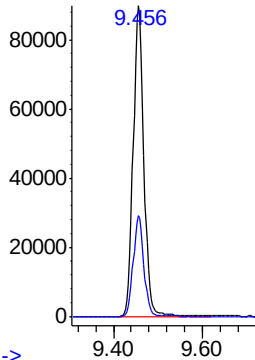
Ion Ratio Lower Upper

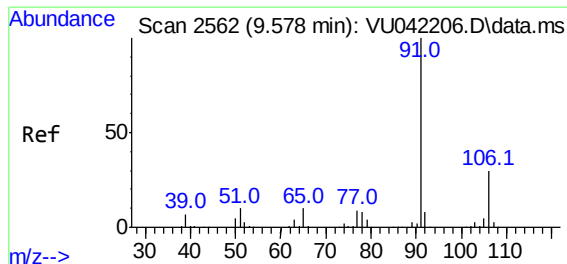
112 100

114 32.5 25.4 38.2



Abundance

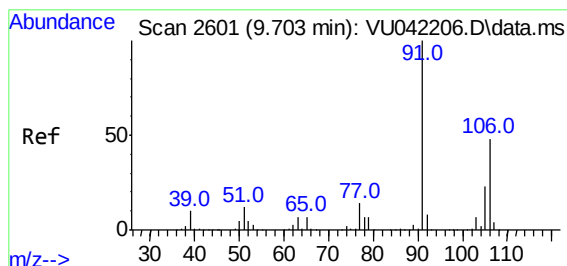
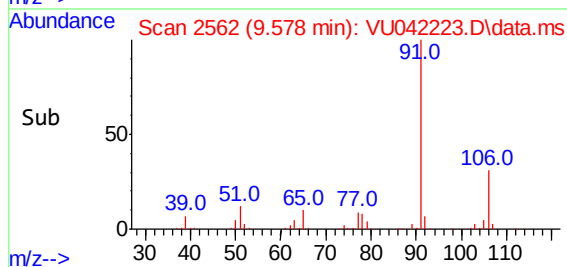
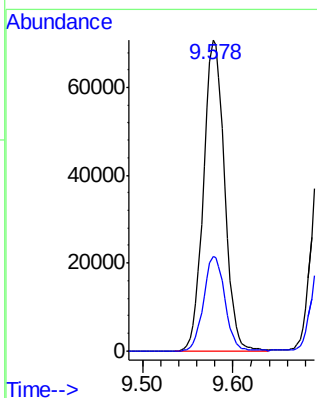
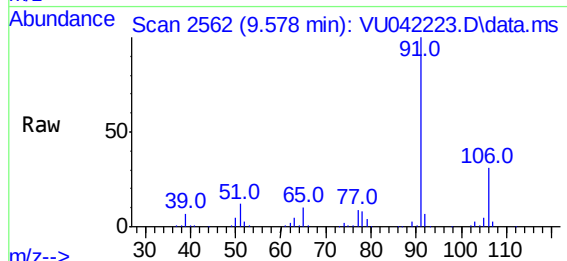




#63
Ethyl Benzene
Concen: 6.77 ug/l
RT: 9.578 min Scan# 2562
Delta R.T. -0.000 min
Lab File: VU042223.D
Acq: 29 Jan 2021 14:30

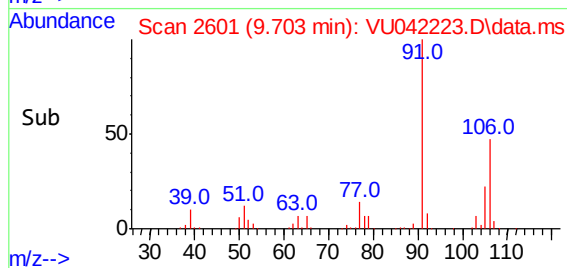
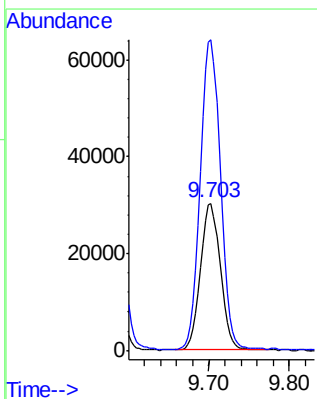
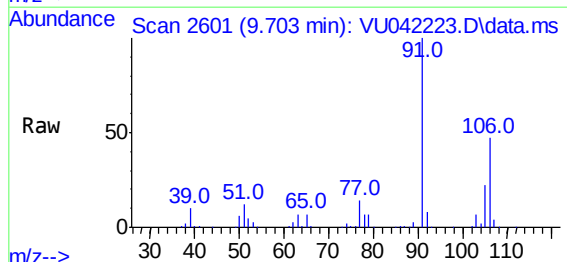
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WS

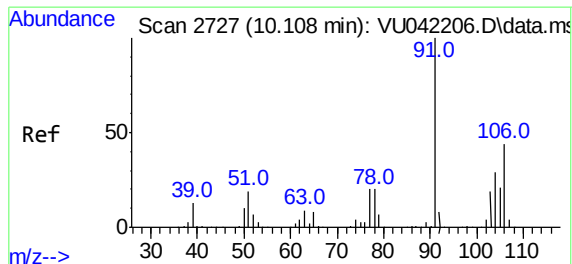
Tgt Ion: 91 Resp: 113616
Ion Ratio Lower Upper
91 100
106 30.6 24.1 36.1



#64
m/p-Xylenes
Concen: 8.05 ug/l
RT: 9.703 min Scan# 2601
Delta R.T. 0.000 min
Lab File: VU042223.D
Acq: 29 Jan 2021 14:30

Tgt Ion: 106 Resp: 50173
Ion Ratio Lower Upper
106 100
91 214.0 168.4 252.6

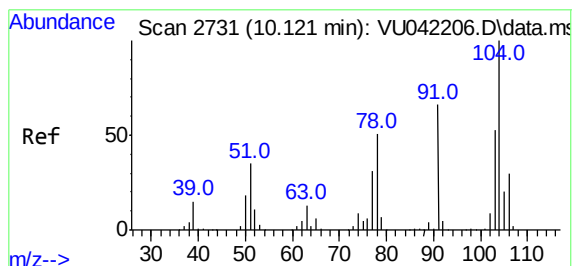
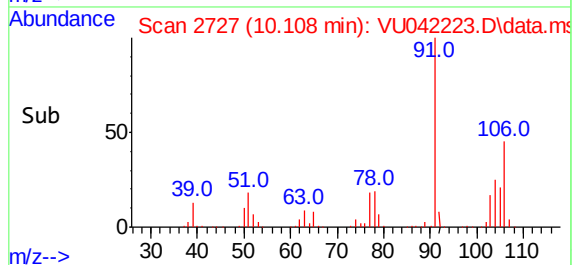
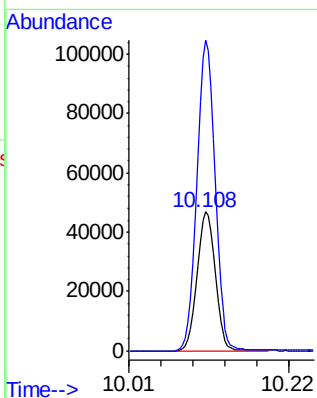
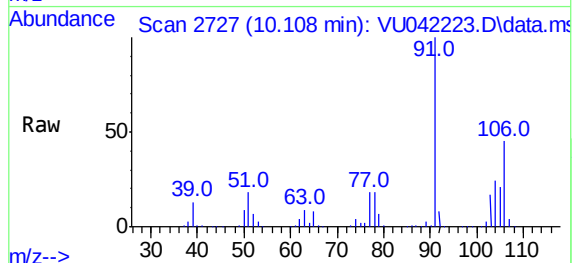




#65
o-Xylene
Concen: 12.21 ug/l
RT: 10.108 min Scan# 2727
Delta R.T. 0.000 min
Lab File: VU042223.D
Acq: 29 Jan 2021 14:30

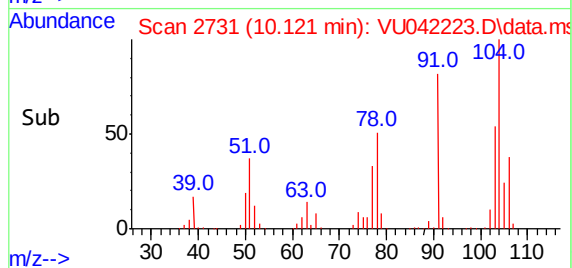
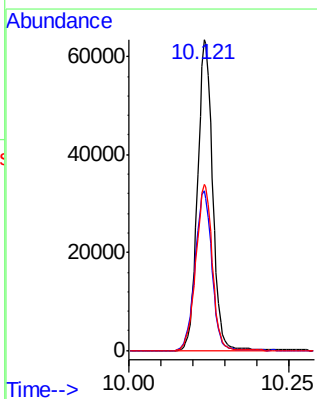
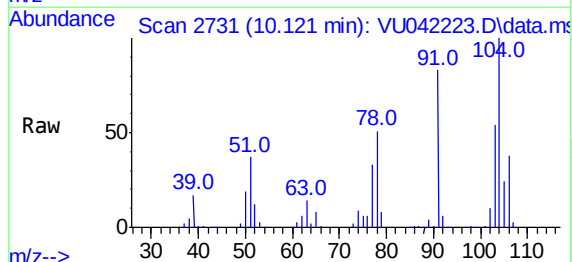
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WS

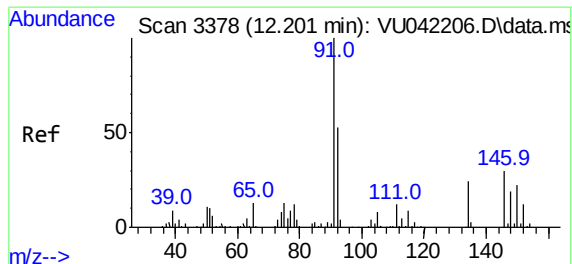
Tgt Ion:106 Resp: 75031
Ion Ratio Lower Upper
106 100
91 223.4 112.0 336.0



#66
Styrene
Concen: 10.07 ug/l
RT: 10.121 min Scan# 2731
Delta R.T. 0.000 min
Lab File: VU042223.D
Acq: 29 Jan 2021 14:30

Tgt Ion:104 Resp: 103820
Ion Ratio Lower Upper
104 100
78 57.0 43.9 65.9
103 58.1 44.7 67.1

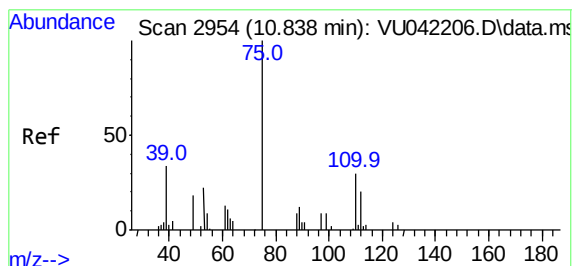
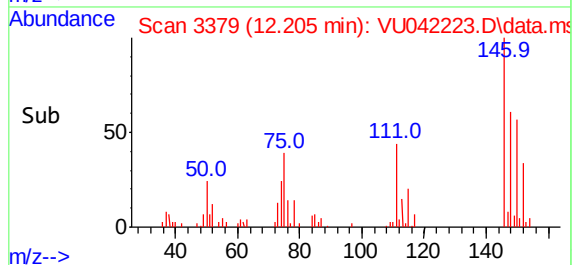
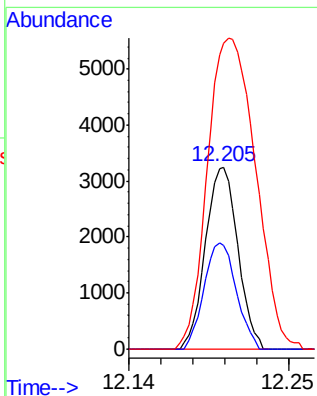
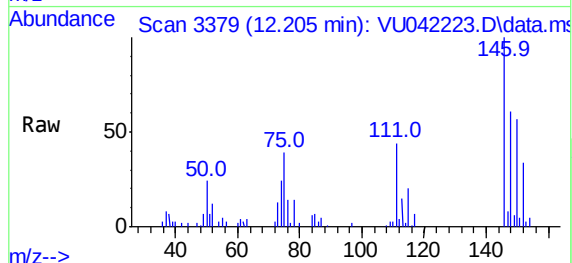




#68
 1,2-Dichlorobenzene-d4
 Concen: 1.08 ug/l
 RT: 12.205 min Scan# 3379
 Delta R.T. 0.004 min
 Lab File: VU042223.D
 Acq: 29 Jan 2021 14:30

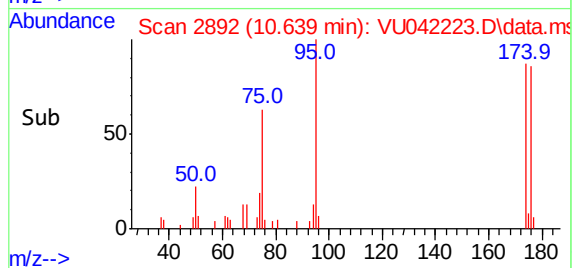
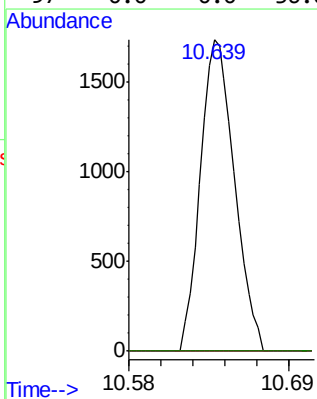
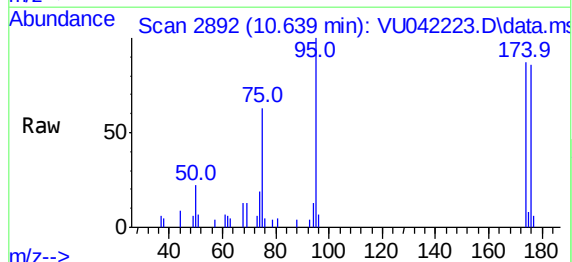
Instrument :
 MSVOA_U
 ClientSampleId :
 PT-RVOA-WS

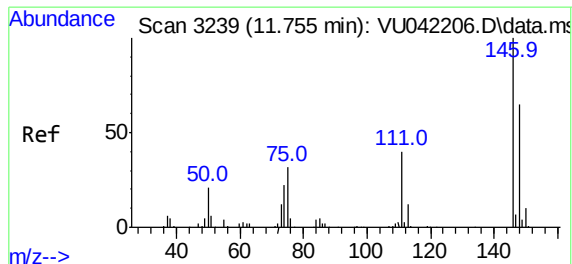
Tgt Ion:152 Resp: 5272
 Ion Ratio Lower Upper
 152 100
 115 58.1 0.0 243.2
 150 254.7 0.0 642.6



#71
 1,2,3-Trichloropropane
 Concen: 0.97 ug/l
 RT: 10.639 min Scan# 2892
 Delta R.T. -0.199 min
 Lab File: VU042223.D
 Acq: 29 Jan 2021 14:30

Tgt Ion: 75 Resp: 2686
 Ion Ratio Lower Upper
 75 100
 77 0.0 0.0 107.2
 110 0.0 0.0 69.0
 97 0.0 0.0 36.6

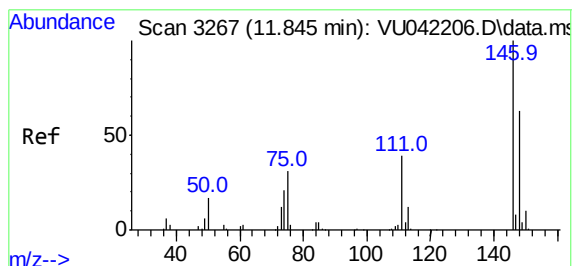
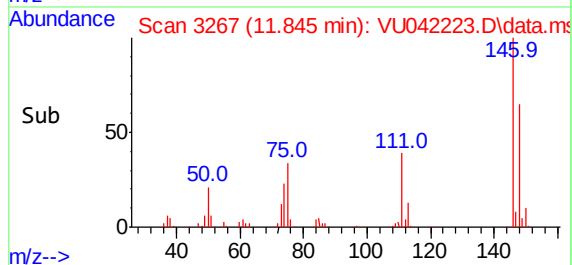
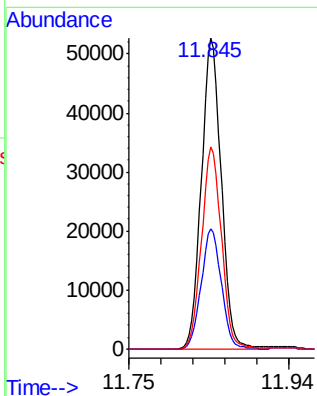
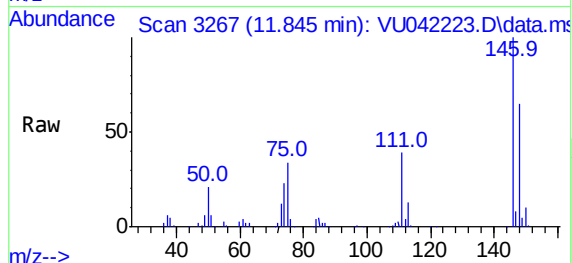




#82
1,3-Dichlorobenzene
Concen: 10.82 ug/l
RT: 11.845 min Scan# 3267
Delta R.T. 0.090 min
Lab File: VU042223.D
Acq: 29 Jan 2021 14:30

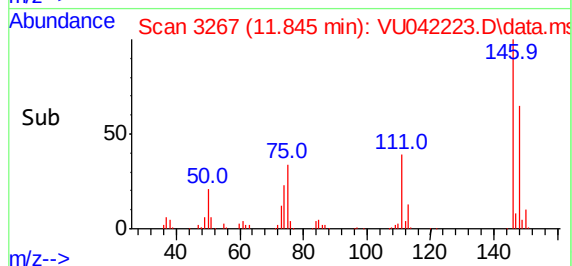
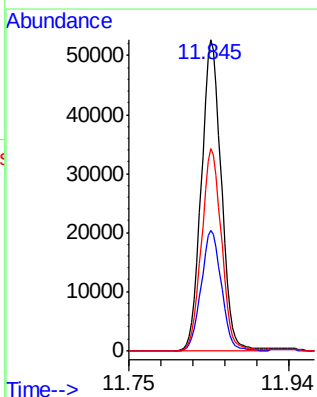
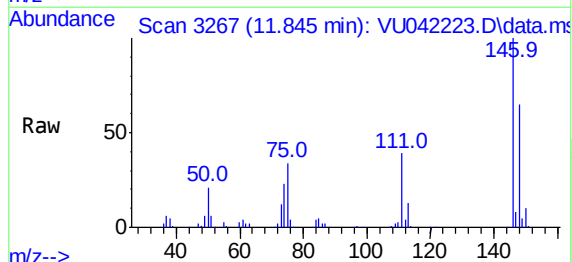
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WS

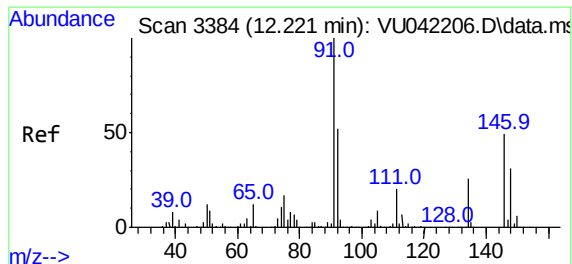
Tgt Ion:146 Resp: 85309
Ion Ratio Lower Upper
146 100
111 39.0 32.1 48.1
148 65.0 51.5 77.3



#83
1,4-Dichlorobenzene
Concen: 10.74 ug/l
RT: 11.845 min Scan# 3267
Delta R.T. -0.000 min
Lab File: VU042223.D
Acq: 29 Jan 2021 14:30

Tgt Ion:146 Resp: 85309
Ion Ratio Lower Upper
146 100
111 39.0 30.7 46.1
148 65.0 50.3 75.5

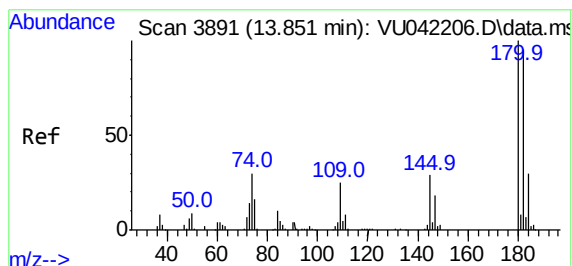
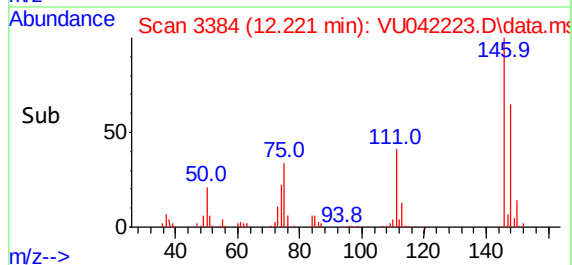
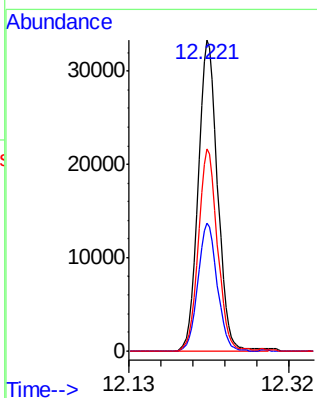
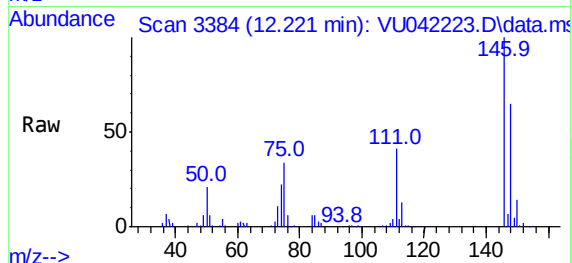




#85
1,2-Dichlorobenzene
Concen: 7.11 ug/l
RT: 12.221 min Scan# 3384
Delta R.T. -0.000 min
Lab File: VU042223.D
Acq: 29 Jan 2021 14:30

Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WS

Tgt Ion:146 Resp: 54551
Ion Ratio Lower Upper
146 100
111 40.8 20.6 61.8
148 64.0 32.1 96.3



#87
1,2,4-Trichlorobenzene
Concen: 16.30 ug/l
RT: 13.851 min Scan# 3891
Delta R.T. -0.000 min
Lab File: VU042223.D
Acq: 29 Jan 2021 14:30

Tgt Ion:180 Resp: 96139
Ion Ratio Lower Upper
180 100
182 94.8 76.7 115.1
145 29.8 23.4 35.0

