

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU020224\
 Data File : VU057788.D
 Acq On : 02 Feb 2024 11:43
 Operator : MD/SY
 Sample : P1174-07
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-RVOA-WS

Quant Time: Feb 03 05:53:41 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U013124DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Fri Feb 02 00:27:55 2024
 Response via : Initial Calibration

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

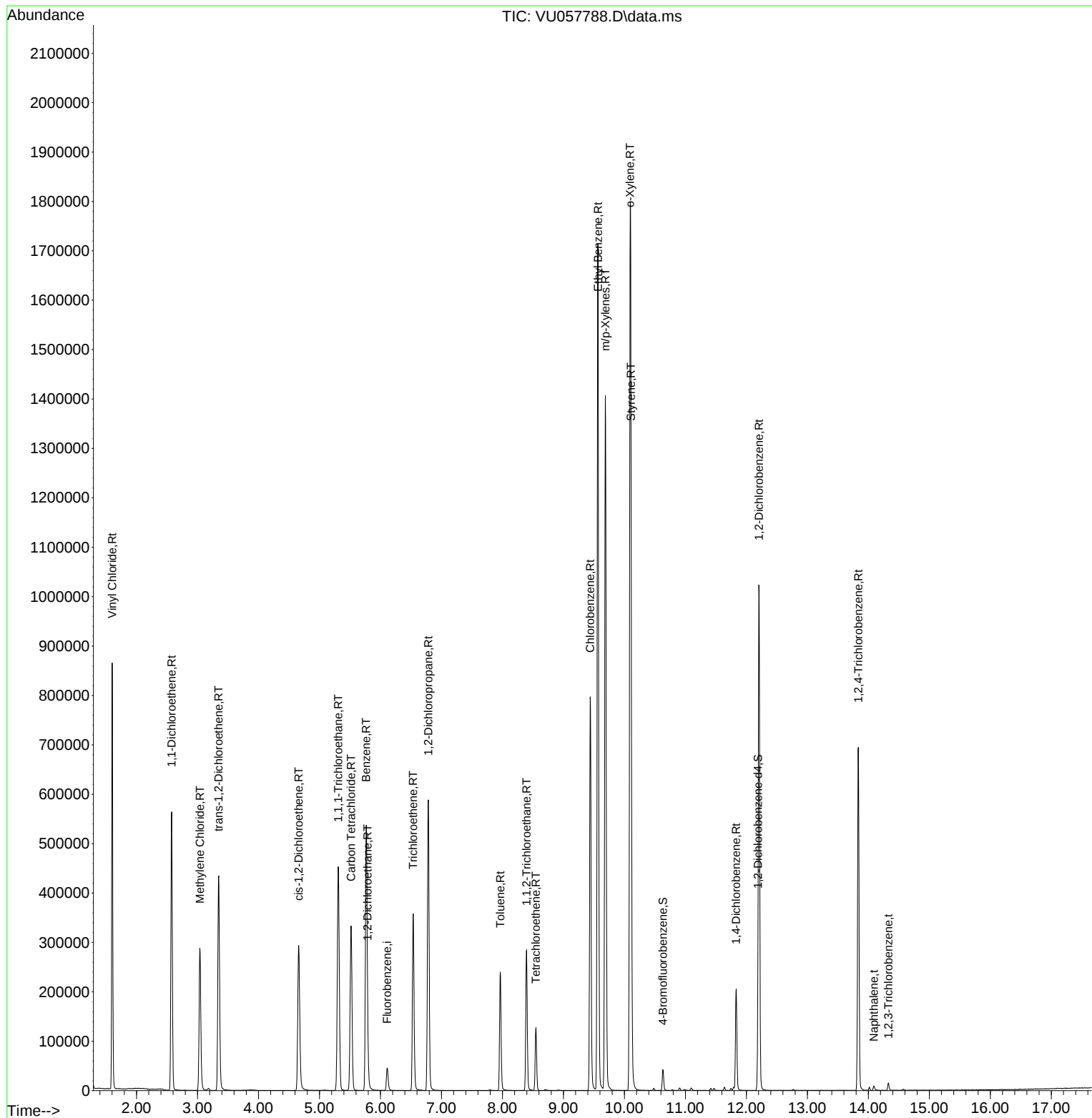
Internal Standards						
1) Fluorobenzene	6.110	96	42614	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.631	95	15080	0.935	ug/l	0.00
Spiked Amount 1.000			Recovery	=	93.000%	
68) 1,2-Dichlorobenzene-d4	12.190	152	13731	0.945	ug/l	0.00
Spiked Amount 1.000			Recovery	=	94.000%	
Target Compounds						
						Qvalue
4) Vinyl Chloride	1.602	62	586023	42.213	ug/l	100
9) 1,1-Dichloroethene	2.576	96	188679	17.815	ug/l	97
15) Methylene Chloride	3.039	84	141241	11.166	ug/l	97
16) trans-1,2-Dichloroethene	3.348	96	182909	15.818	ug/l	96
22) cis-1,2-Dichloroethene	4.660	96	152211	12.019	ug/l	92
28) 1,1,1-Trichloroethane	5.309	97	328994	16.054	ug/l	99
30) Carbon Tetrachloride	5.518	117	223969	12.685	ug/l	99
35) Benzene	5.766	78	493925	10.347	ug/l	100
36) 1,2-Dichloroethane	5.788	62	49134	3.532	ug/l	95
37) Trichloroethene	6.537	130	116925	9.224	ug/l	100
38) 1,2-Dichloropropane	6.785	63	223466	18.054	ug/l	99
49) Toluene	7.965	92	102378	3.511	ug/l	95
52) 1,1,2-Trichloroethane	8.396	97	87109	11.106	ug/l	99
58) Tetrachloroethene	8.550	164	25754	2.303	ug/l	93
59) Chlorobenzene	9.441	112	410957	12.747	ug/l	99
63) Ethyl Benzene	9.566	91	1202257	20.968	ug/l	100
64) m/p-Xylenes	9.688	106	390779	18.766	ug/l	97
65) o-Xylene	10.094	106	383650	18.612	ug/l	95
66) Styrene	10.110	104	362215	11.773	ug/l #	88
83) 1,4-Dichlorobenzene	11.833	146	81150	3.458	ug/l	98
85) 1,2-Dichlorobenzene	12.206	146	378347	17.345	ug/l	98
87) 1,2,4-Trichlorobenzene	13.836	180	203230	15.593	ug/l	98
89) Naphthalene	14.090	128	8719	0.433	ug/l	96
90) 1,2,3-Trichlorobenzene	14.328	180	4624	0.426	ug/l	95

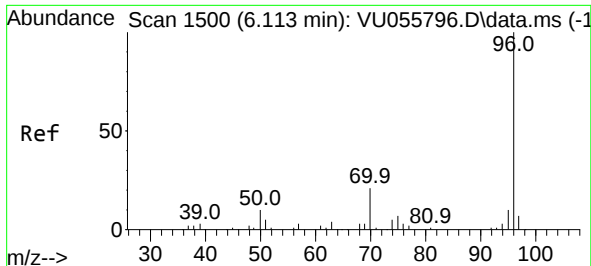
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Fri Feb 02 00:27:55 2024
Response via : Initial Calibration

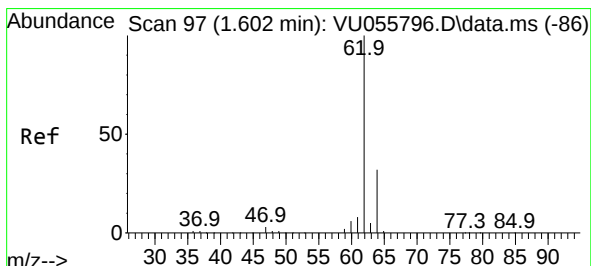
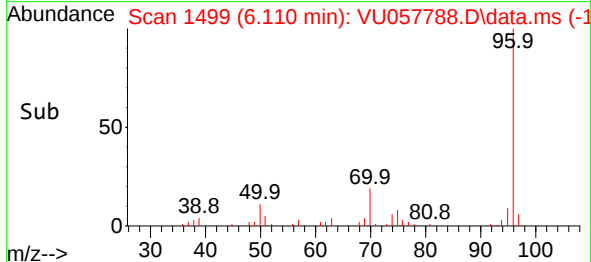
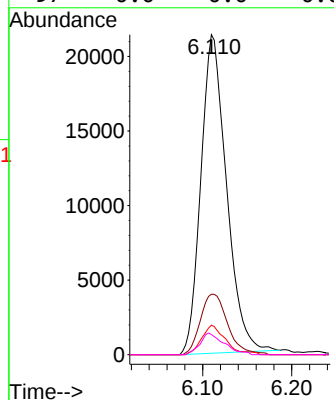
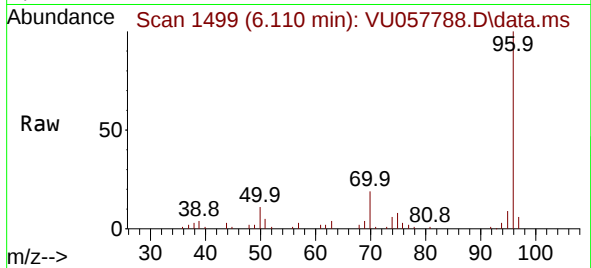




#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.110 min Scan# 14
Delta R.T. -0.003 min
Lab File: VU057788.D
Acq: 02 Feb 2024 11:43

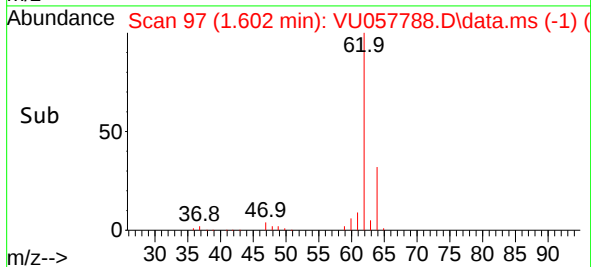
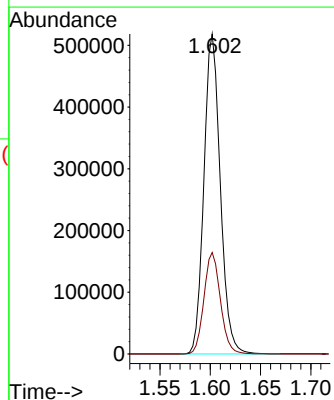
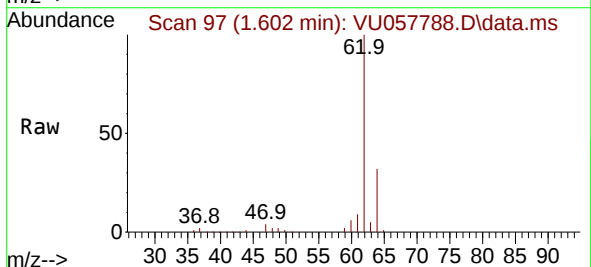
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WS

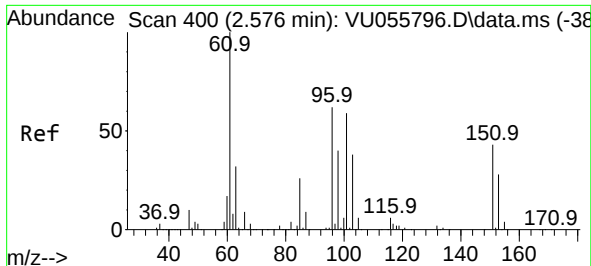
Tgt Ion: 96	Resp: 42614
Ion Ratio	Lower Upper
96 100	
70 20.2	16.5 24.7
95 8.7	7.4 11.0
97 0.0	0.0 0.0



#4
Vinyl Chloride
Concen: 42.213 ug/l
RT: 1.602 min Scan# 97
Delta R.T. -0.000 min
Lab File: VU057788.D
Acq: 02 Feb 2024 11:43

Tgt Ion: 62	Resp: 586023
Ion Ratio	Lower Upper
62 100	
64 31.7	25.4 38.2

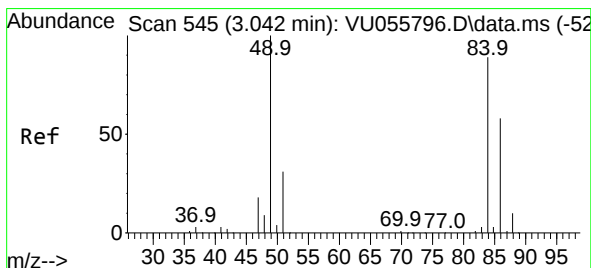
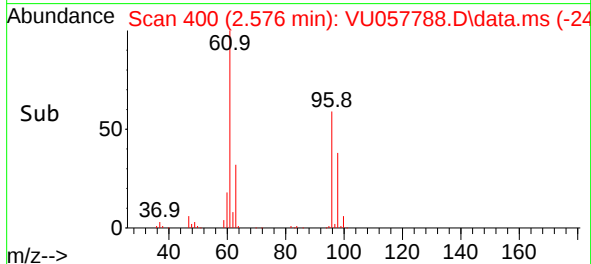
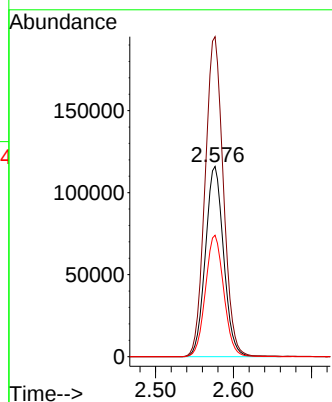
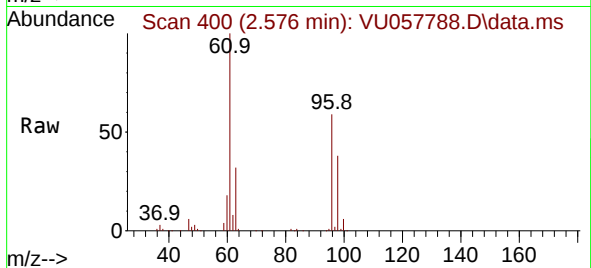




#9
1,1-Dichloroethene
Concen: 17.815 ug/l
RT: 2.576 min Scan# 400
Delta R.T. 0.000 min
Lab File: VU057788.D
Acq: 02 Feb 2024 11:43

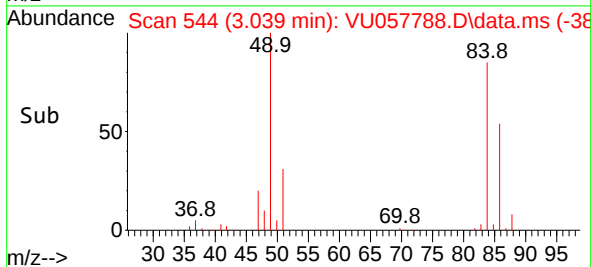
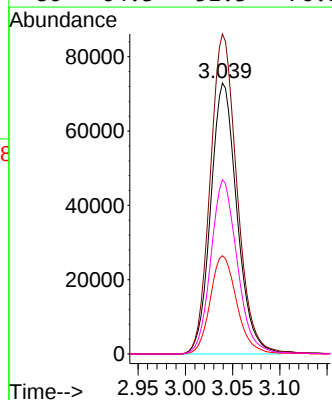
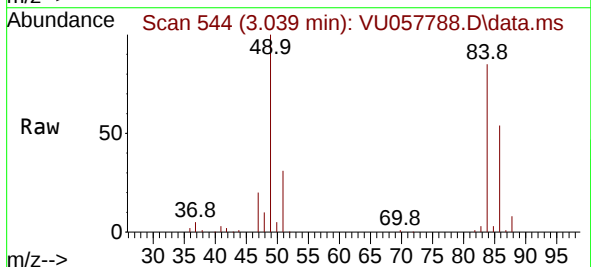
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WS

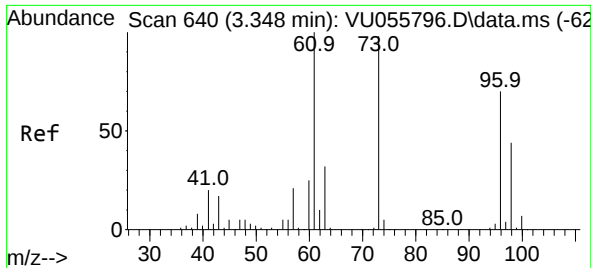
Tgt Ion: 96 Resp: 188679
Ion Ratio Lower Upper
96 100
61 168.2 0.0 521.4
98 63.8 0.0 125.8



#15
Methylene Chloride
Concen: 11.166 ug/l
RT: 3.039 min Scan# 544
Delta R.T. -0.003 min
Lab File: VU057788.D
Acq: 02 Feb 2024 11:43

Tgt Ion: 84 Resp: 141241
Ion Ratio Lower Upper
84 100
49 118.2 98.9 148.3
51 36.3 0.0 75.4
86 64.3 51.3 76.9

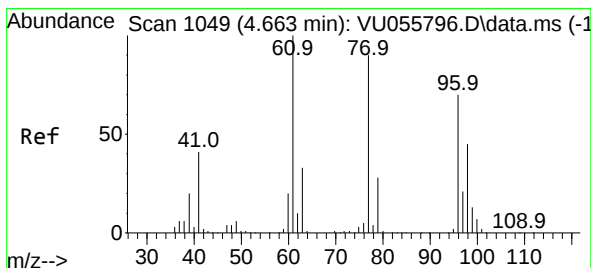
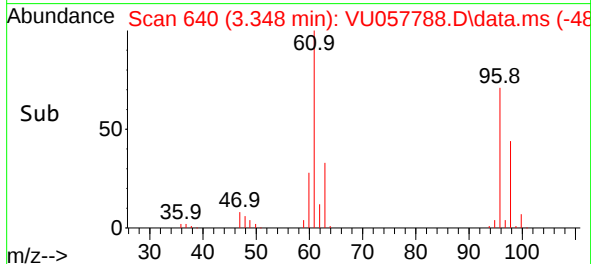
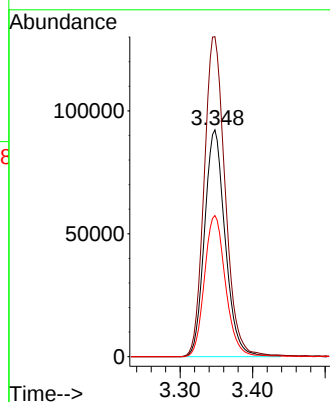
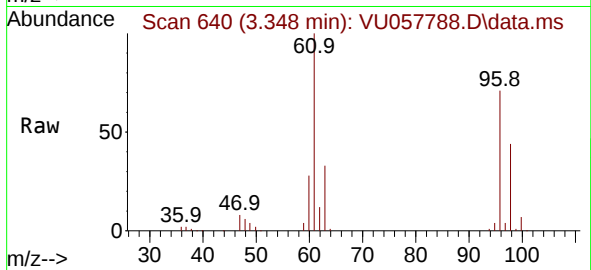




#16
trans-1,2-Dichloroethene
Concen: 15.818 ug/l
RT: 3.348 min Scan# 640
Delta R.T. -0.000 min
Lab File: VU057788.D
Acq: 02 Feb 2024 11:43

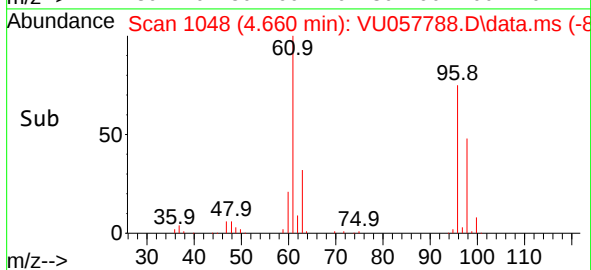
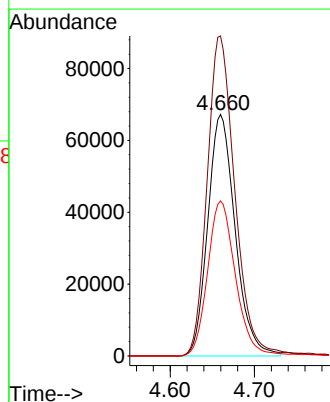
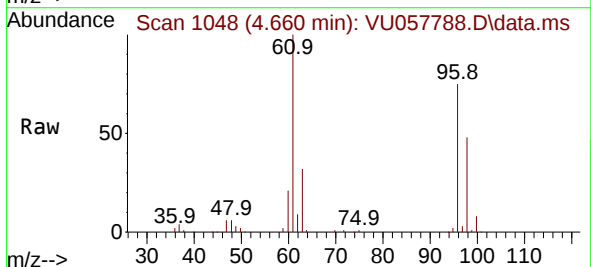
Instrument :
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ClientSampleId :
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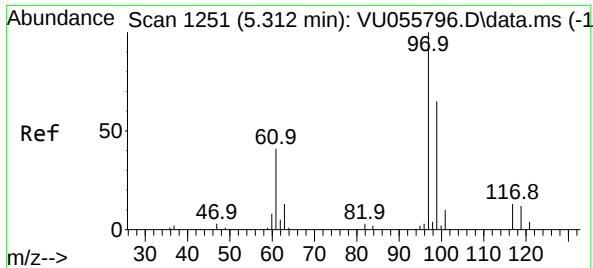
Tgt Ion: 96 Resp: 182909
Ion Ratio Lower Upper
96 100
61 141.0 117.5 176.3
98 62.2 48.3 72.5



#22
cis-1,2-Dichloroethene
Concen: 12.019 ug/l
RT: 4.660 min Scan# 1048
Delta R.T. -0.003 min
Lab File: VU057788.D
Acq: 02 Feb 2024 11:43

Tgt Ion: 96 Resp: 152211
Ion Ratio Lower Upper
96 100
61 133.6 0.0 365.8
98 65.3 32.0 96.0

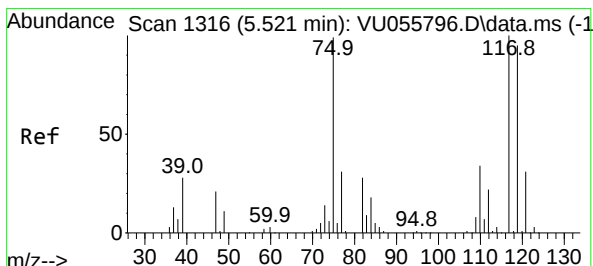
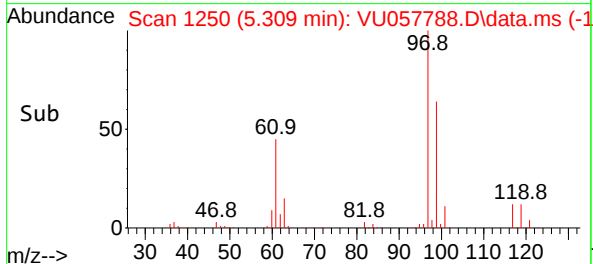
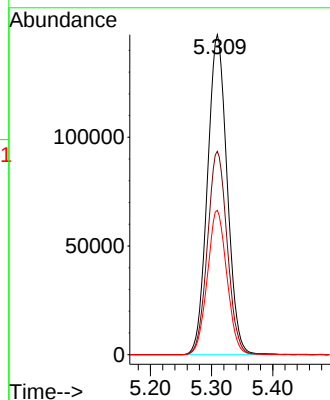
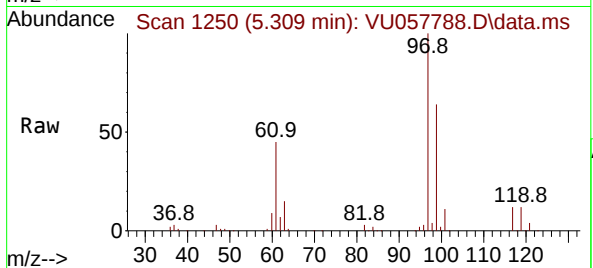




#28
1,1,1-Trichloroethane
Concen: 16.054 ug/l
RT: 5.309 min Scan# 11
Delta R.T. -0.003 min
Lab File: VU057788.D
Acq: 02 Feb 2024 11:43

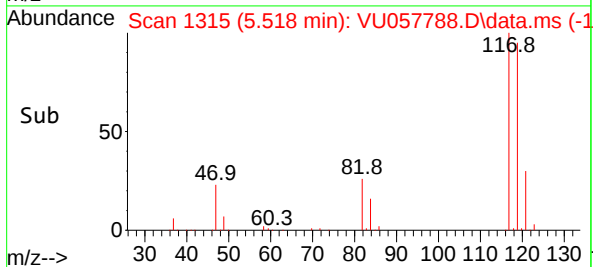
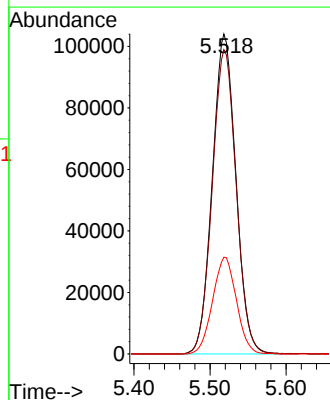
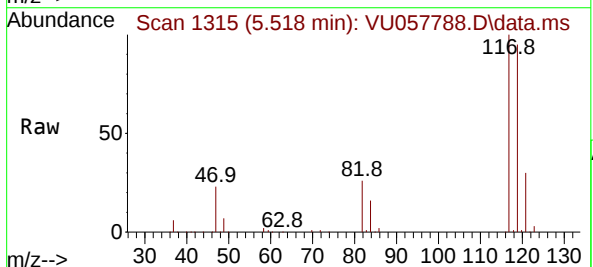
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WS

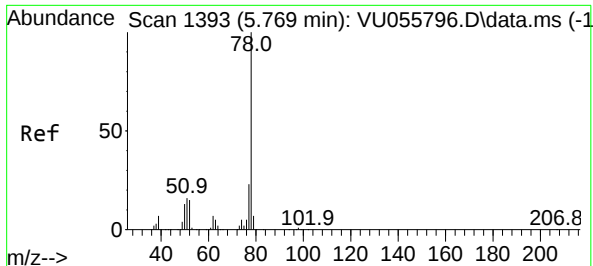
Tgt Ion: 97 Resp: 328994
Ion Ratio Lower Upper
97 100
99 63.8 32.0 96.2
61 44.9 22.9 68.5



#30
Carbon Tetrachloride
Concen: 12.685 ug/l
RT: 5.518 min Scan# 1315
Delta R.T. -0.003 min
Lab File: VU057788.D
Acq: 02 Feb 2024 11:43

Tgt Ion: 117 Resp: 223969
Ion Ratio Lower Upper
117 100
119 95.1 77.4 116.0
121 30.5 24.0 36.0

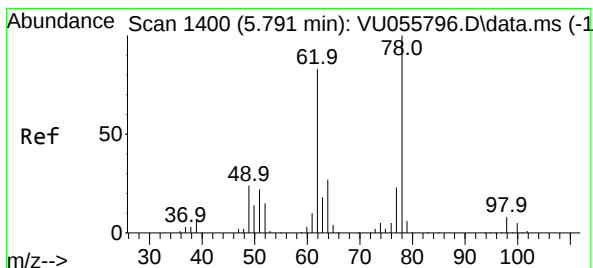
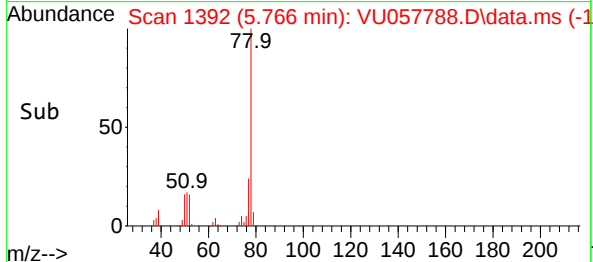
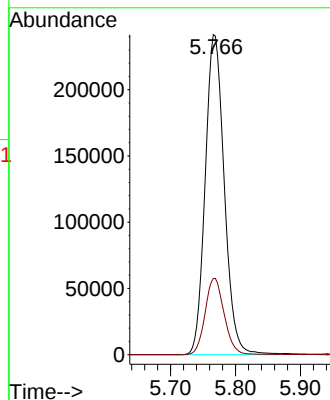
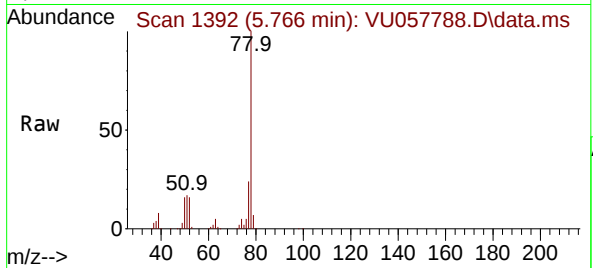




#35
Benzene
Concen: 10.347 ug/l
RT: 5.766 min Scan# 11
Delta R.T. -0.003 min
Lab File: VU057788.D
Acq: 02 Feb 2024 11:43

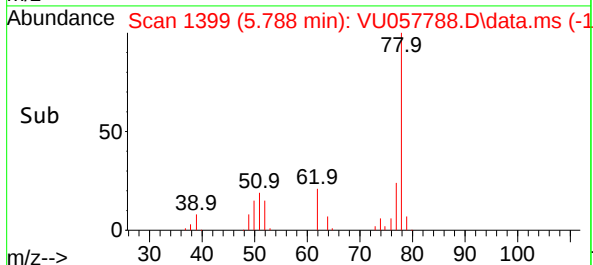
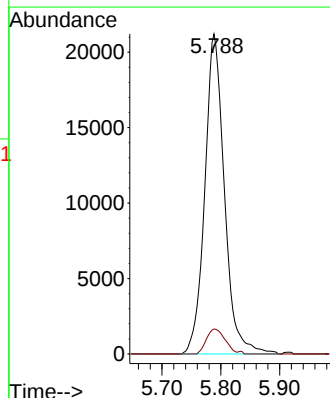
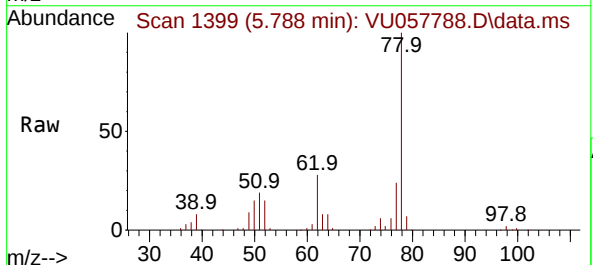
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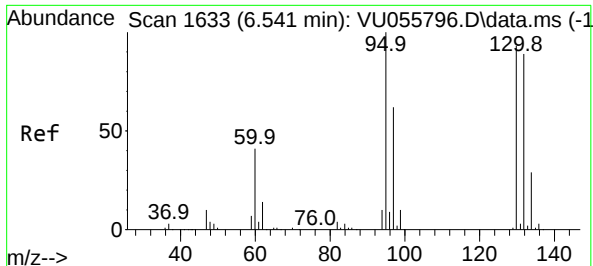
Tgt Ion: 78 Resp: 493925
Ion Ratio Lower Upper
78 100
77 23.8 18.9 28.3



#36
1,2-Dichloroethane
Concen: 3.532 ug/l
RT: 5.788 min Scan# 1399
Delta R.T. -0.003 min
Lab File: VU057788.D
Acq: 02 Feb 2024 11:43

Tgt Ion: 62 Resp: 49134
Ion Ratio Lower Upper
62 100
98 7.4 7.3 10.9

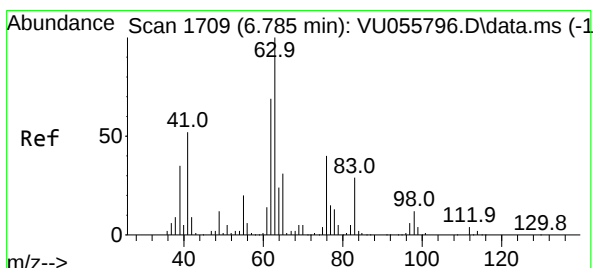
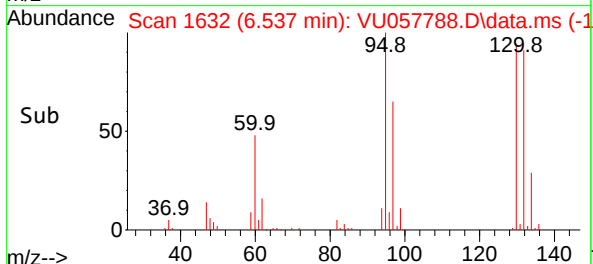
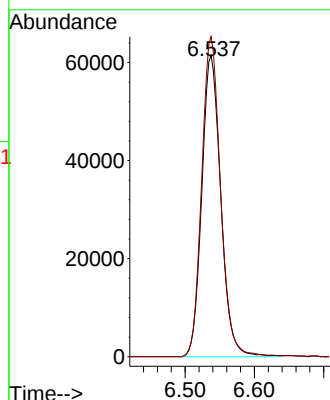
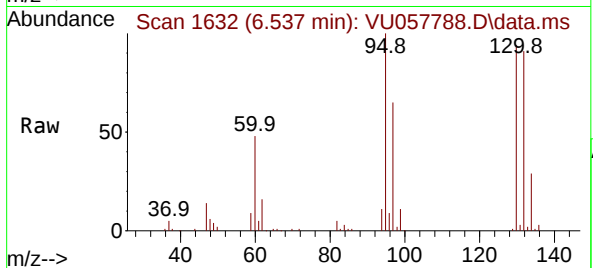




#37
Trichloroethene
Concen: 9.224 ug/l
RT: 6.537 min Scan# 1
Delta R.T. -0.004 min
Lab File: VU057788.D
Acq: 02 Feb 2024 11:43

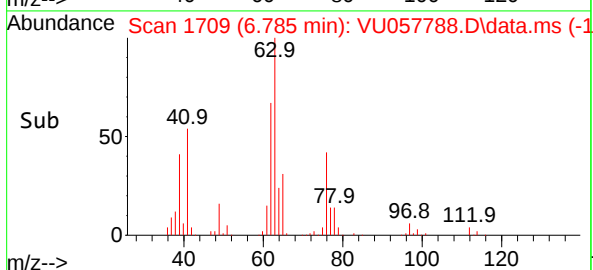
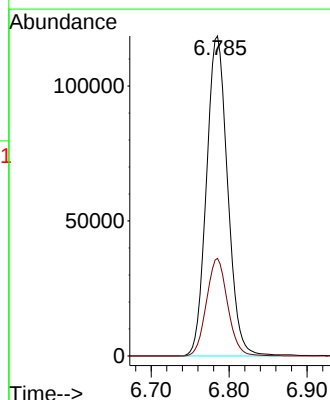
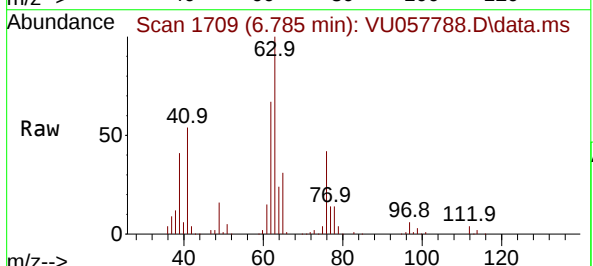
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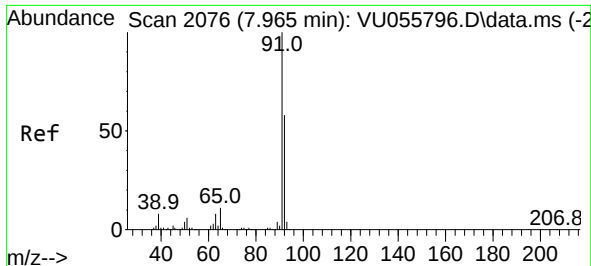
Tgt Ion:130 Resp: 116925
Ion Ratio Lower Upper
130 100
95 106.2 85.0 127.6



#38
1,2-Dichloropropane
Concen: 18.054 ug/l
RT: 6.785 min Scan# 1709
Delta R.T. 0.000 min
Lab File: VU057788.D
Acq: 02 Feb 2024 11:43

Tgt Ion: 63 Resp: 223466
Ion Ratio Lower Upper
63 100
65 30.5 24.9 37.3

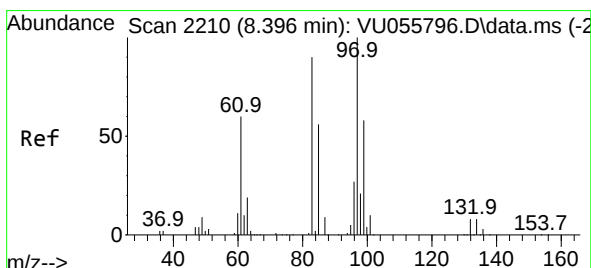
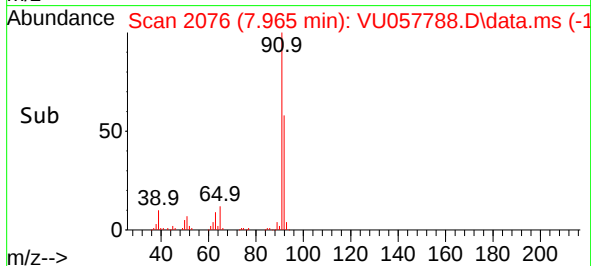
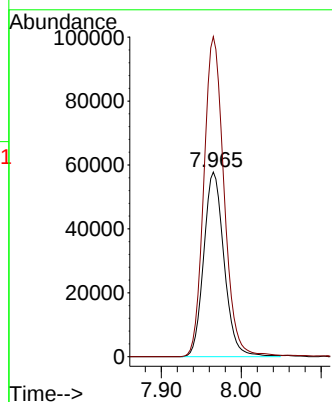
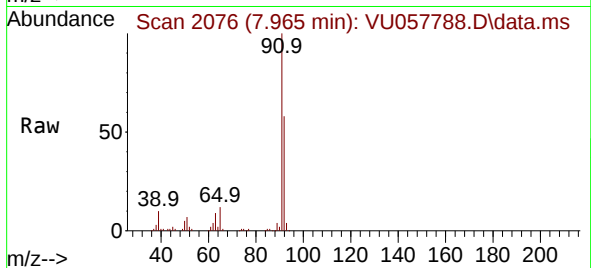




#49
Toluene
Concen: 3.511 ug/l
RT: 7.965 min Scan# 2076
Delta R.T. 0.000 min
Lab File: VU057788.D
Acq: 02 Feb 2024 11:43

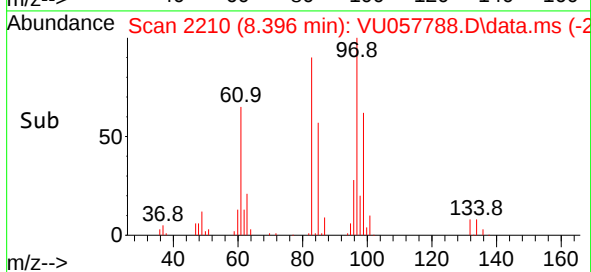
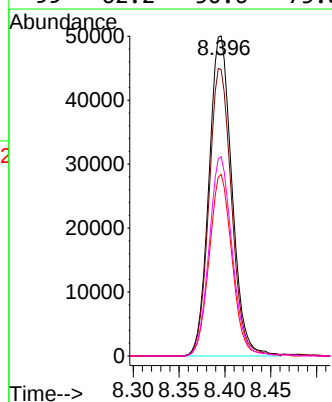
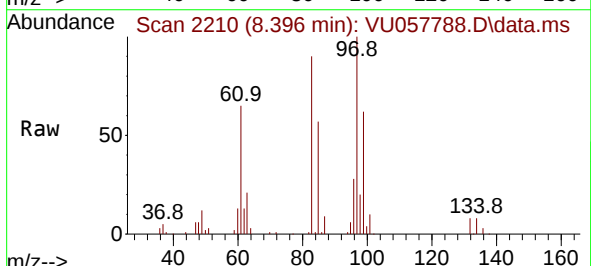
Instrument :
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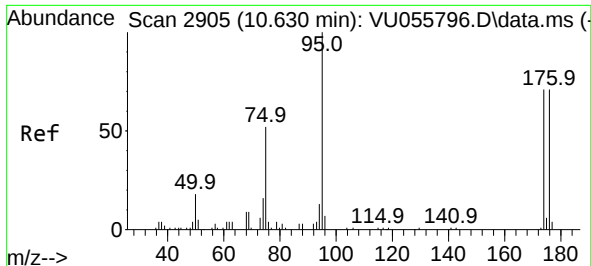
Tgt Ion: 92 Resp: 102378
Ion Ratio Lower Upper
92 100
91 172.2 143.0 214.6



#52
1,1,2-Trichloroethane
Concen: 11.106 ug/l
RT: 8.396 min Scan# 2210
Delta R.T. -0.000 min
Lab File: VU057788.D
Acq: 02 Feb 2024 11:43

Tgt Ion: 97 Resp: 87109
Ion Ratio Lower Upper
97 100
83 89.5 71.8 107.8
85 56.8 45.2 67.8
99 62.2 50.6 75.8

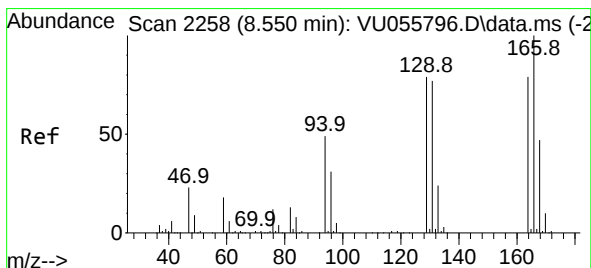
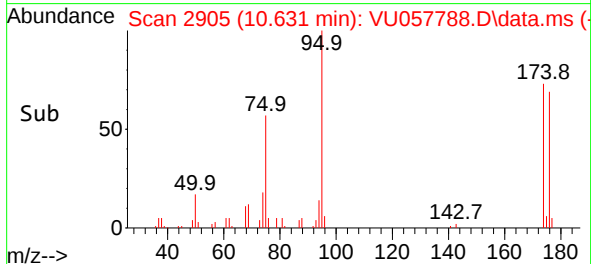
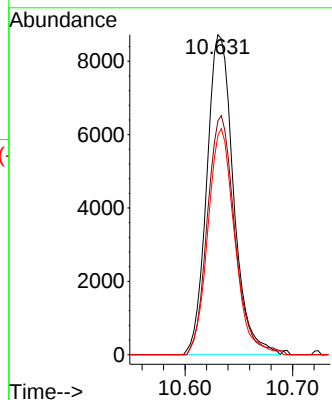
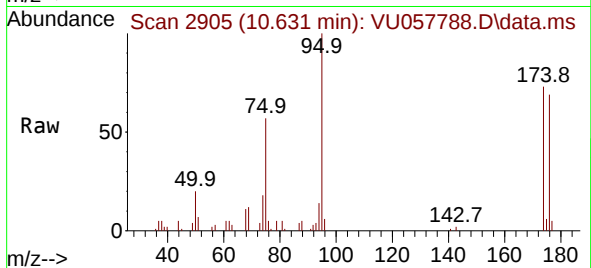




#57
4-Bromofluorobenzene
Concen: 0.935 ug/l
RT: 10.631 min Scan# 2905
Delta R.T. 0.001 min
Lab File: VU057788.D
Acq: 02 Feb 2024 11:43

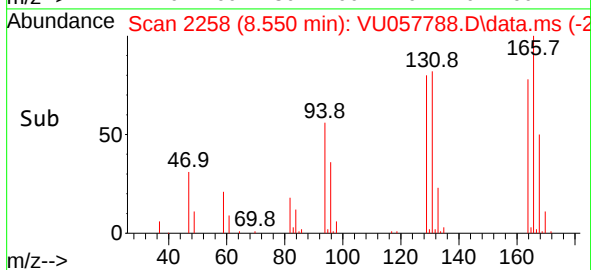
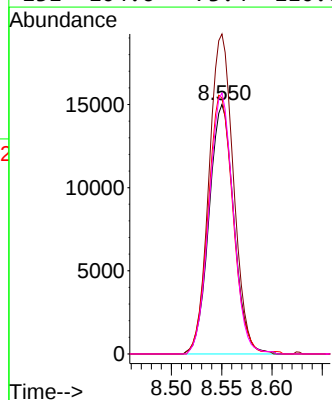
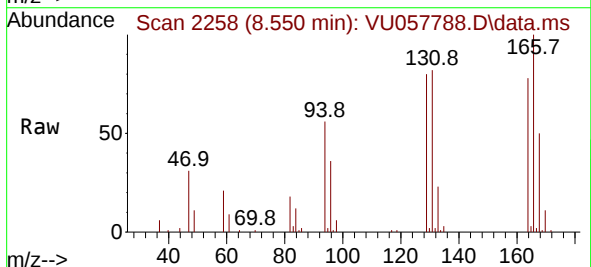
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WS

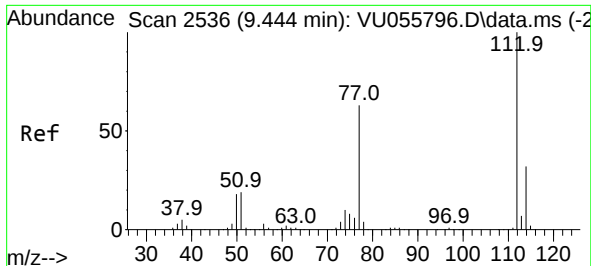
Tgt Ion: 95 Resp: 15080
Ion Ratio Lower Upper
95 100
174 76.7 63.3 94.9
176 70.7 59.3 88.9



#58
Tetrachloroethene
Concen: 2.303 ug/l
RT: 8.550 min Scan# 2258
Delta R.T. 0.000 min
Lab File: VU057788.D
Acq: 02 Feb 2024 11:43

Tgt Ion: 164 Resp: 25754
Ion Ratio Lower Upper
164 100
166 128.2 99.6 149.4
129 102.7 78.6 117.8
131 104.6 73.4 110.0





#59

Chlorobenzene

Concen: 12.747 ug/l

RT: 9.441 min Scan# 2536

Delta R.T. -0.003 min

Lab File: VU057788.D

Acq: 02 Feb 2024 11:43

Instrument :

MSVOA_U

ClientSampleId :

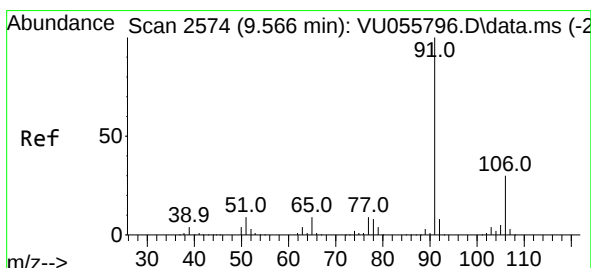
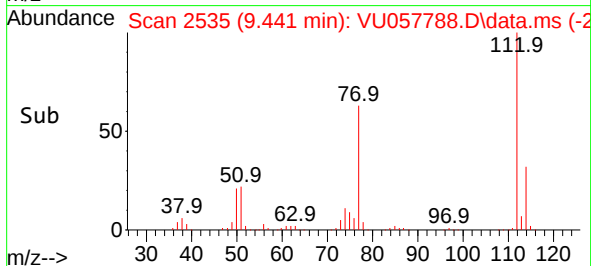
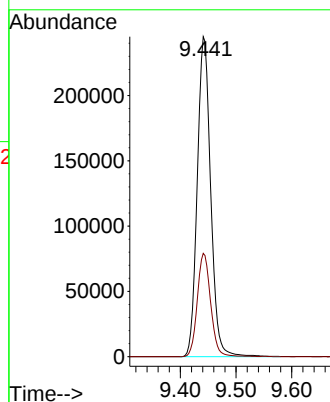
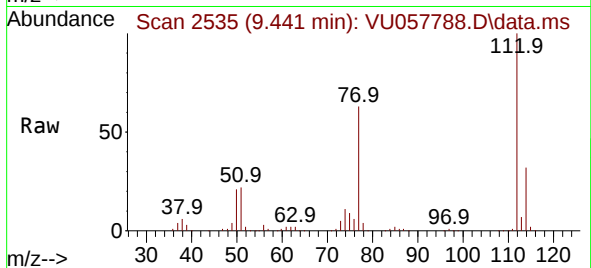
PT-RVOA-WS

Tgt Ion:112 Resp: 410957

Ion Ratio Lower Upper

112 100

114 32.3 25.6 38.4



#63

Ethyl Benzene

Concen: 20.968 ug/l

RT: 9.566 min Scan# 2574

Delta R.T. 0.000 min

Lab File: VU057788.D

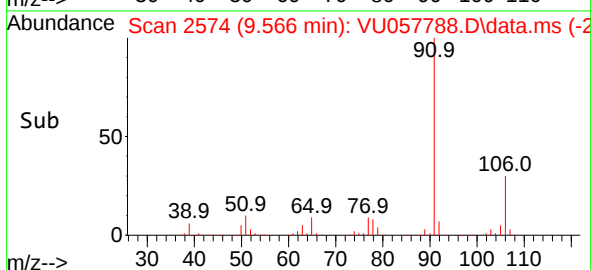
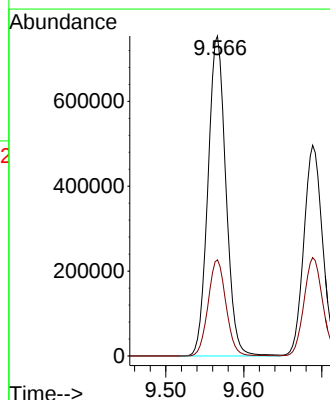
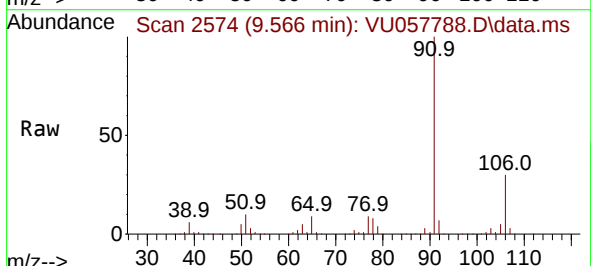
Acq: 02 Feb 2024 11:43

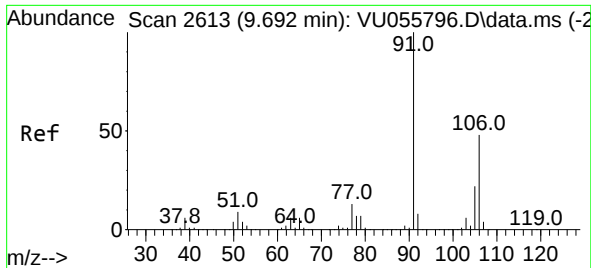
Tgt Ion: 91 Resp: 1202257

Ion Ratio Lower Upper

91 100

106 30.1 24.2 36.2

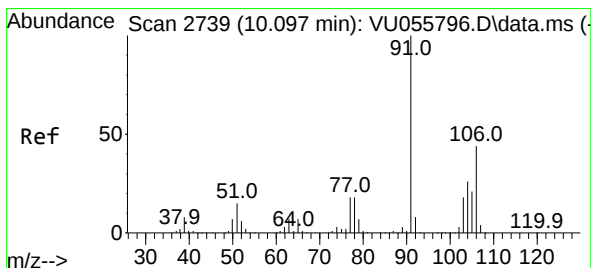
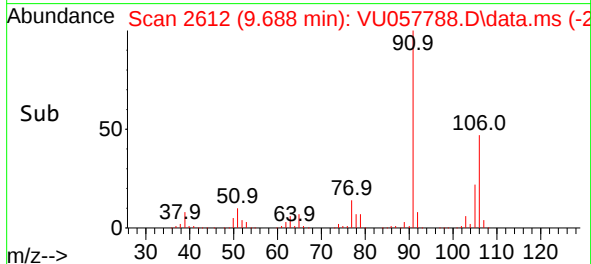
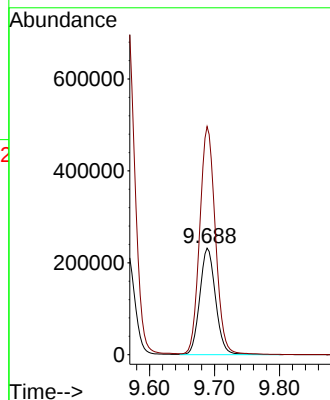
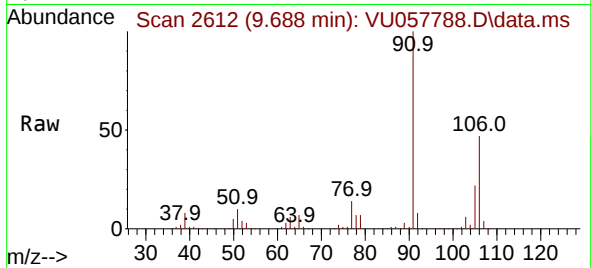




#64
m/p-Xylenes
Concen: 18.766 ug/l
RT: 9.688 min Scan# 2612
Delta R.T. -0.004 min
Lab File: VU057788.D
Acq: 02 Feb 2024 11:43

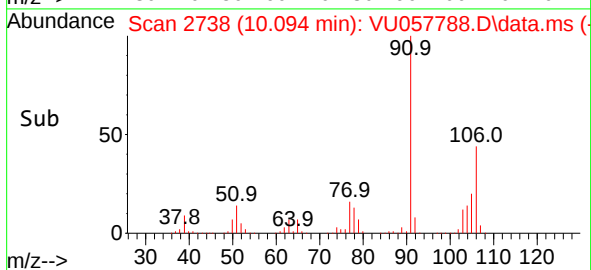
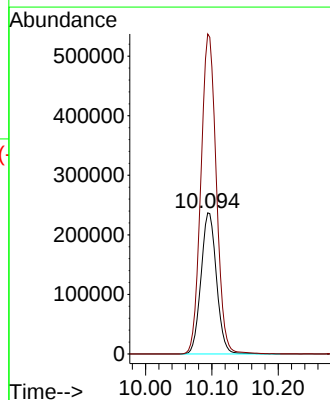
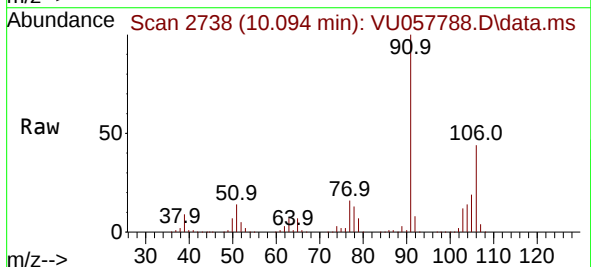
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WS

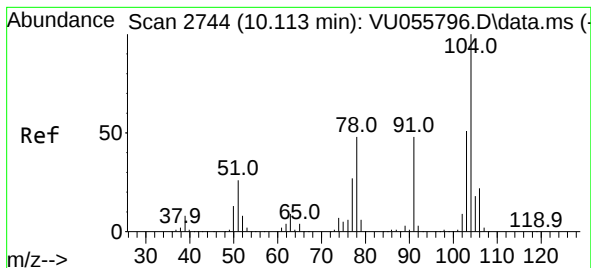
Tgt Ion:106 Resp: 390779
Ion Ratio Lower Upper
106 100
91 214.5 167.3 250.9



#65
o-Xylene
Concen: 18.612 ug/l
RT: 10.094 min Scan# 2738
Delta R.T. -0.003 min
Lab File: VU057788.D
Acq: 02 Feb 2024 11:43

Tgt Ion:106 Resp: 383650
Ion Ratio Lower Upper
106 100
91 226.5 109.3 327.9





#66

Styrene

Concen: 11.773 ug/l

RT: 10.110 min Scan# 21

Delta R.T. -0.003 min

Lab File: VU057788.D

Acq: 02 Feb 2024 11:43

Instrument :

MSVOA_U

ClientSampleId :

PT-RVOA-WS

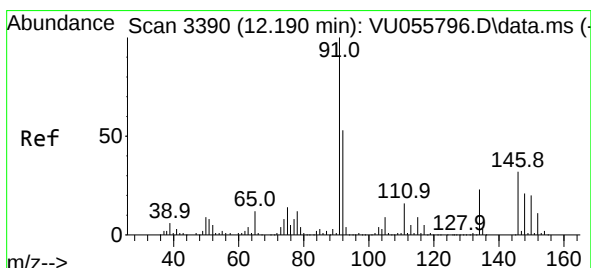
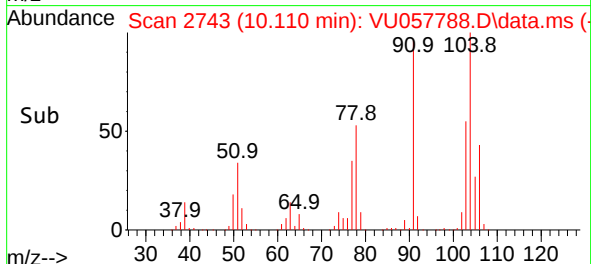
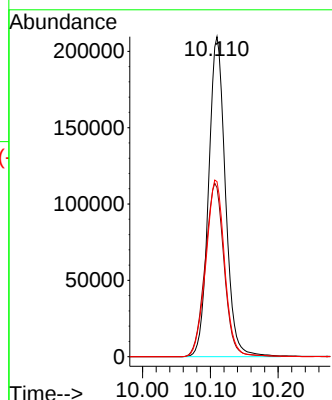
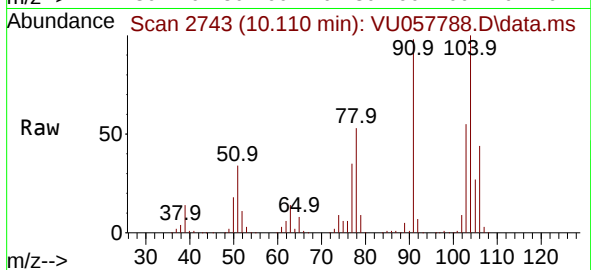
Tgt Ion:104 Resp: 362215

Ion Ratio Lower Upper

104 100

78 61.2 39.7 59.5#

103 61.8 44.8 67.2



#68

1,2-Dichlorobenzene-d4

Concen: 0.945 ug/l

RT: 12.190 min Scan# 3390

Delta R.T. -0.000 min

Lab File: VU057788.D

Acq: 02 Feb 2024 11:43

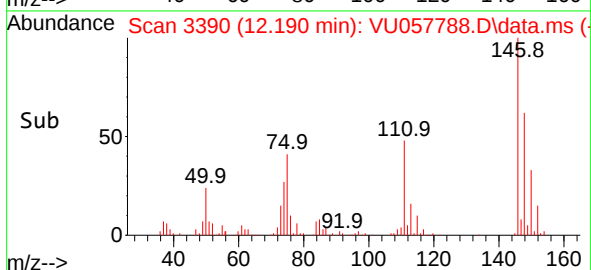
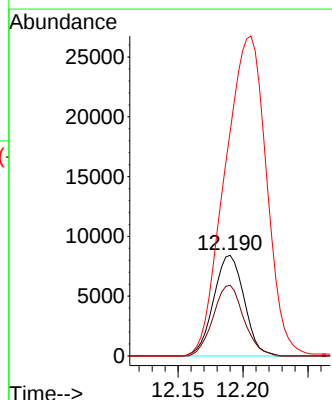
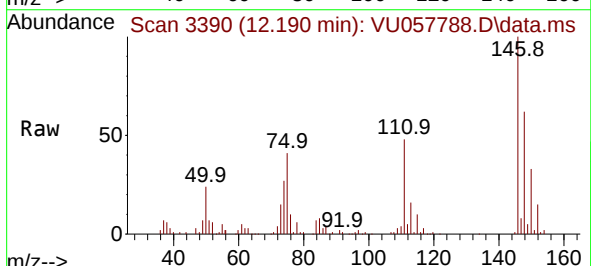
Tgt Ion:152 Resp: 13731

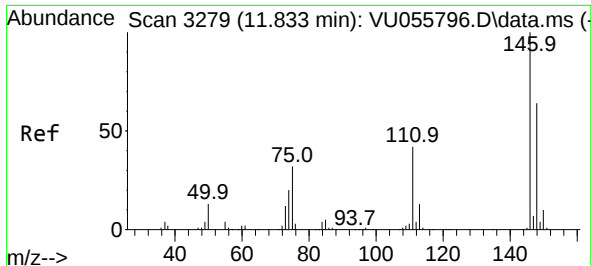
Ion Ratio Lower Upper

152 100

115 70.6 0.0 308.8

150 433.4 0.0 635.0

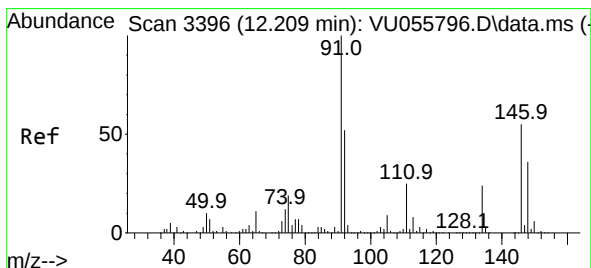
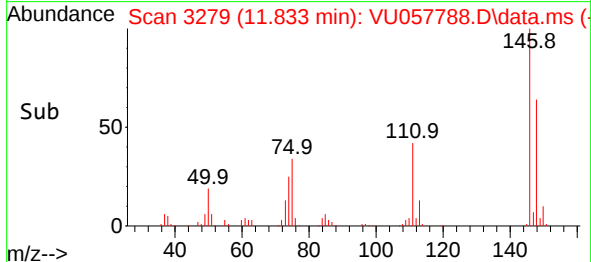
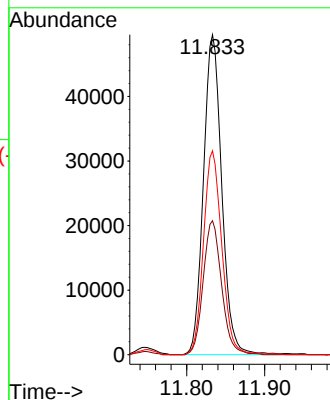
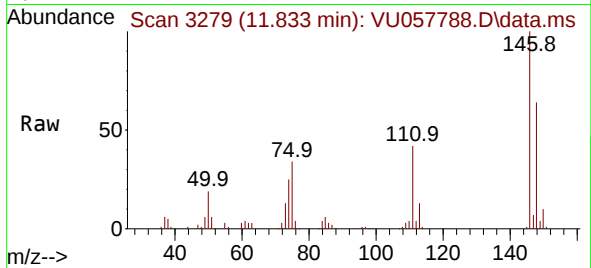




#83
1,4-Dichlorobenzene
Concen: 3.458 ug/l
RT: 11.833 min Scan# 31
Delta R.T. 0.000 min
Lab File: VU057788.D
Acq: 02 Feb 2024 11:43

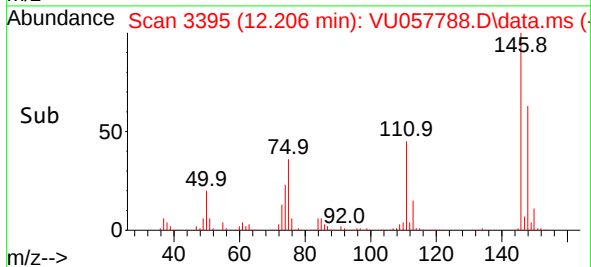
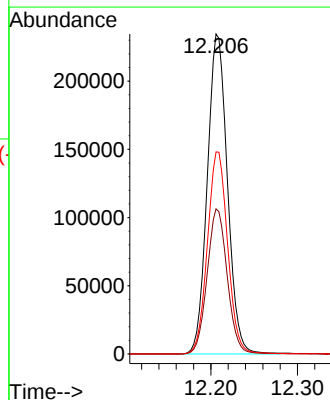
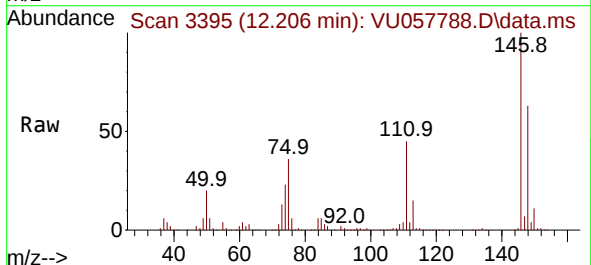
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WS

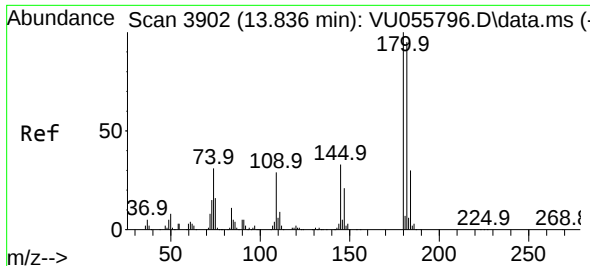
Tgt Ion:146 Resp: 81150
Ion Ratio Lower Upper
146 100
111 42.0 31.6 47.4
148 63.5 50.3 75.5



#85
1,2-Dichlorobenzene
Concen: 17.345 ug/l
RT: 12.206 min Scan# 3395
Delta R.T. -0.003 min
Lab File: VU057788.D
Acq: 02 Feb 2024 11:43

Tgt Ion:146 Resp: 378347
Ion Ratio Lower Upper
146 100
111 45.4 21.6 64.6
148 63.6 32.1 96.5

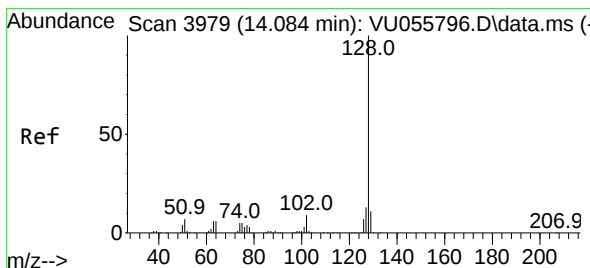
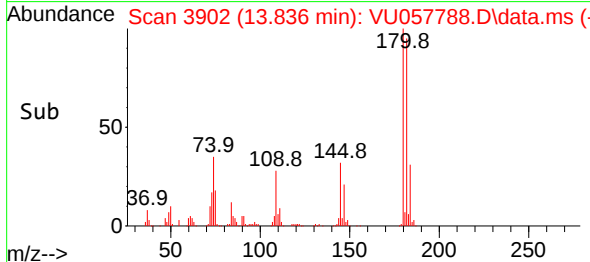
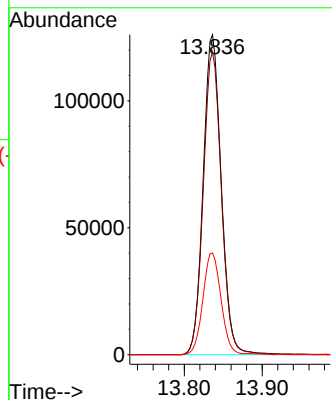
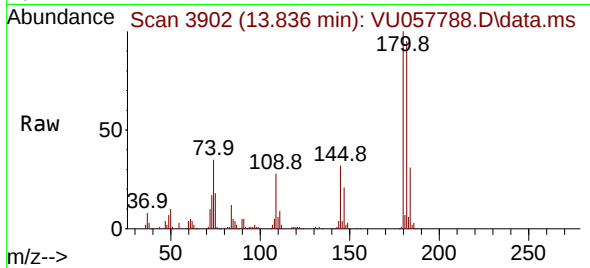




#87
1,2,4-Trichlorobenzene
Concen: 15.593 ug/l
RT: 13.836 min Scan# 3902
Delta R.T. 0.000 min
Lab File: VU057788.D
Acq: 02 Feb 2024 11:43

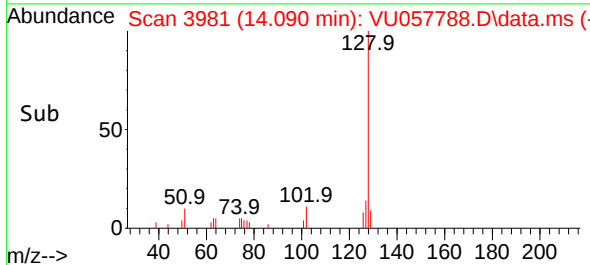
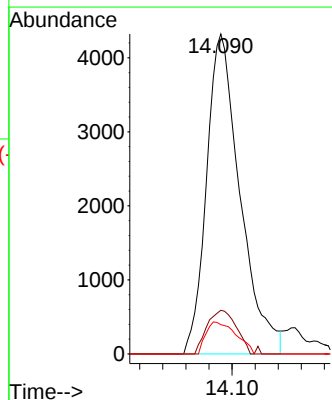
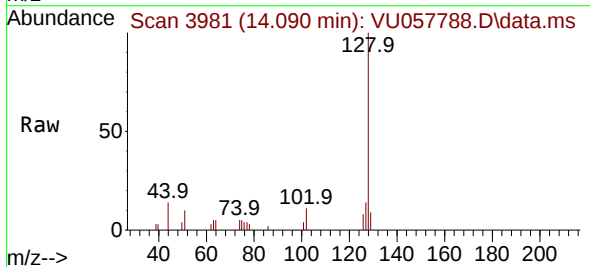
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WS

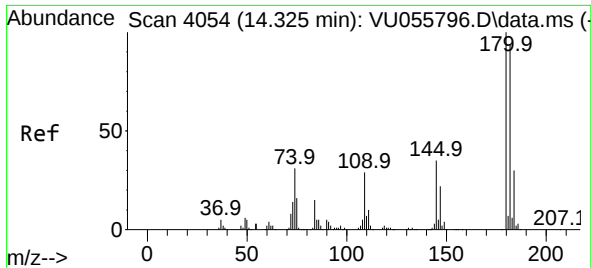
Tgt Ion:180 Resp: 203230
Ion Ratio Lower Upper
180 100
182 95.4 75.8 113.6
145 32.1 23.9 35.9



#89
Naphthalene
Concen: 0.433 ug/l
RT: 14.090 min Scan# 3981
Delta R.T. 0.006 min
Lab File: VU057788.D
Acq: 02 Feb 2024 11:43

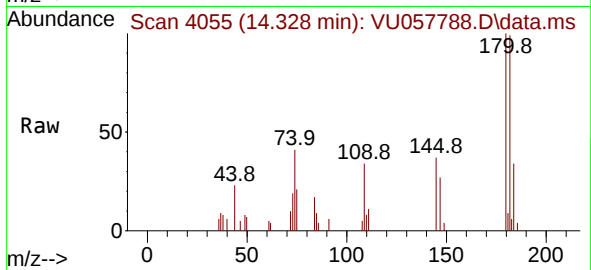
Tgt Ion:128 Resp: 8719
Ion Ratio Lower Upper
128 100
127 11.9 10.9 16.3
129 9.0 8.6 12.8





#90
 1,2,3-Trichlorobenzene
 Concen: 0.426 ug/l
 RT: 14.328 min Scan# 4055
 Delta R.T. 0.003 min
 Lab File: VU057788.D
 Acq: 02 Feb 2024 11:43

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-RVOA-WS



Tgt Ion:	180	Resp:	4624
Ion	Ratio	Lower	Upper
180	100		
182	101.5	75.7	113.5
145	32.5	26.1	39.1

