

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU080724\
 Data File : VU060335.D
 Acq On : 07 Aug 2024 14:26
 Operator : MD/SY
 Sample : P3204-07DL 5X
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-RVOA-WSDL

Quant Time: Aug 08 05:57:29 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U080524DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Tue Aug 06 11:07:28 2024
 Response via : Initial Calibration

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

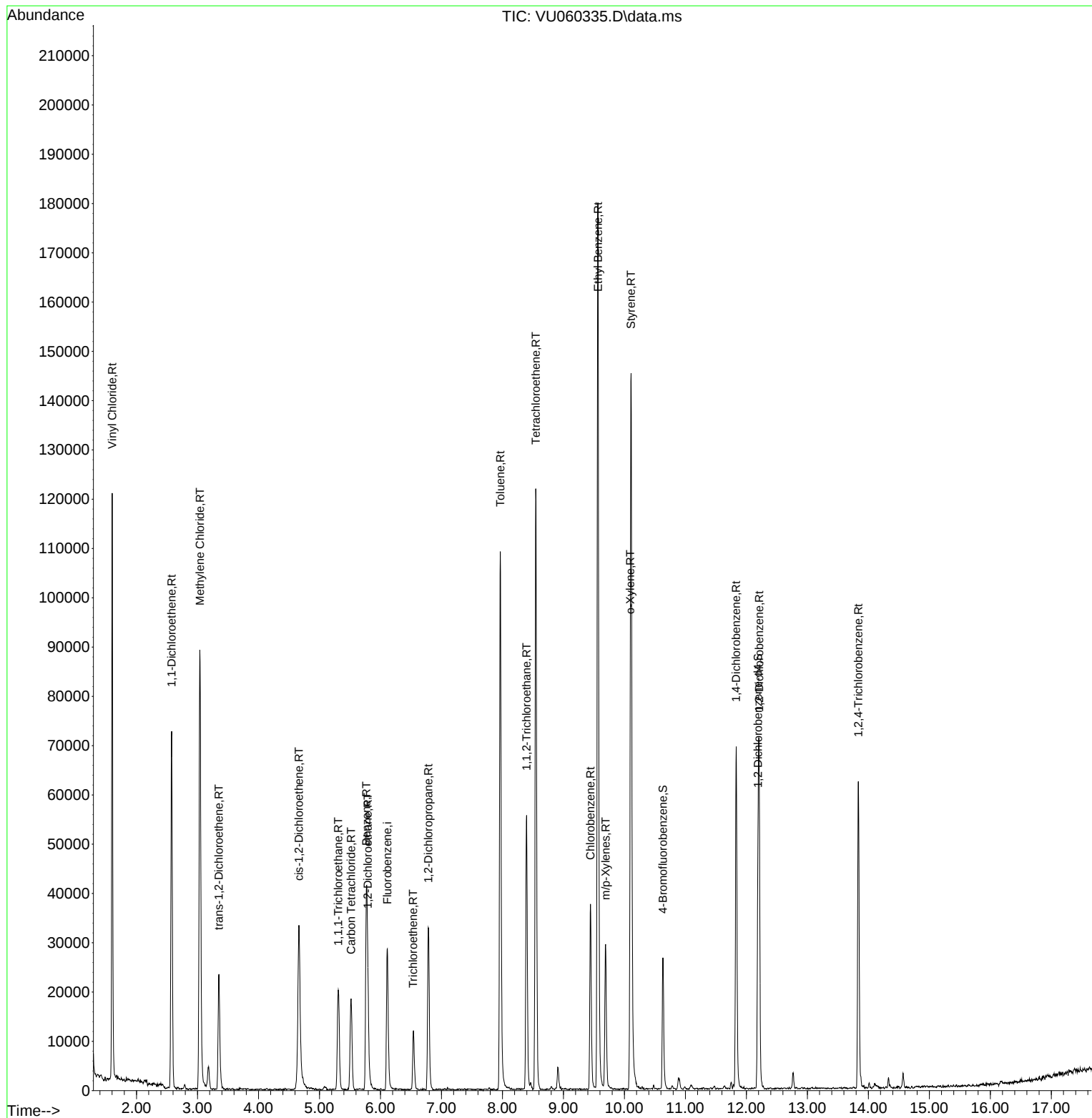
Internal Standards						
1) Fluorobenzene	6.113	96	29887	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.631	95	10510	1.032	ug/l	0.00
Spiked Amount 1.000			Recovery	=	103.000%	
68) 1,2-Dichlorobenzene-d4	12.190	152	11002	0.995	ug/l	0.00
Spiked Amount 1.000			Recovery	=	99.000%	
Target Compounds						
						Qvalue
4) Vinyl Chloride	1.602	62	82818	6.303	ug/l	98
9) 1,1-Dichloroethene	2.576	96	26966	3.018	ug/l	90
15) Methylene Chloride	3.039	84	48887	4.371	ug/l	92
16) trans-1,2-Dichloroethene	3.351	96	11079	1.157	ug/l	91
22) cis-1,2-Dichloroethene	4.663	96	16641	1.623	ug/l	86
28) 1,1,1-Trichloroethane	5.309	97	16790	1.122	ug/l	84
30) Carbon Tetrachloride	5.518	117	14030	1.151	ug/l	94
35) Benzene	5.769	78	39227	1.062	ug/l	100
36) 1,2-Dichloroethane	5.792	62	15033	1.464	ug/l	98
37) Trichloroethene	6.537	130	4885	0.534	ug/l	95
38) 1,2-Dichloropropane	6.785	63	14748	1.476	ug/l	99
49) Toluene	7.965	92	49341	2.409	ug/l	97
52) 1,1,2-Trichloroethane	8.396	97	18627	2.510	ug/l	99
58) Tetrachloroethene	8.547	164	28603	3.500	ug/l	98
59) Chlorobenzene	9.444	112	23520	1.061	ug/l	100
63) Ethyl Benzene	9.566	91	131355	3.417	ug/l	99
64) m/p-Xylenes	9.692	106	9847	1.446	ug/l	90
65) o-Xylene	10.097	106	8773	0.961	ug/l	96
66) Styrene	10.110	104	74280	3.016	ug/l	93
83) 1,4-Dichlorobenzene	11.833	146	32673	1.732	ug/l	99
85) 1,2-Dichlorobenzene	12.209	146	28512	1.551	ug/l	98
87) 1,2,4-Trichlorobenzene	13.836	180	22724	2.162	ug/l	98

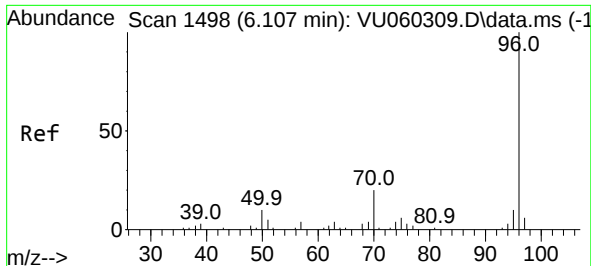
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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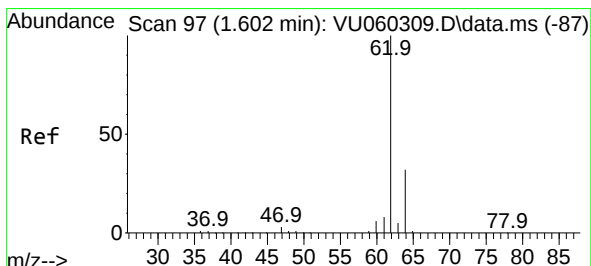
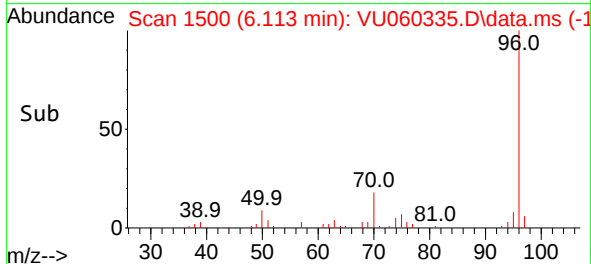
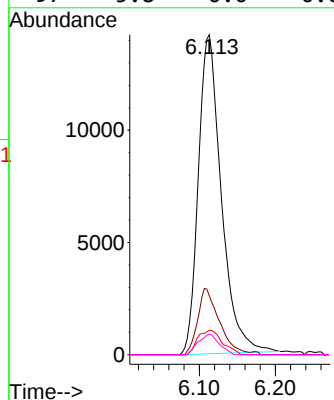
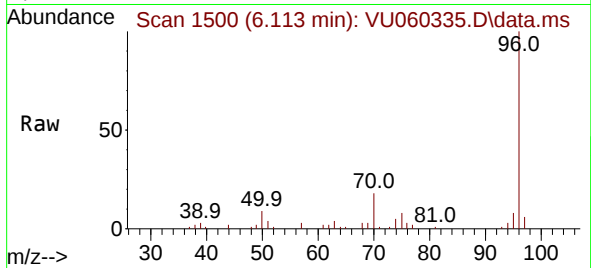




#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.113 min Scan# 11
Delta R.T. 0.006 min
Lab File: VU060335.D
Acq: 07 Aug 2024 14:26

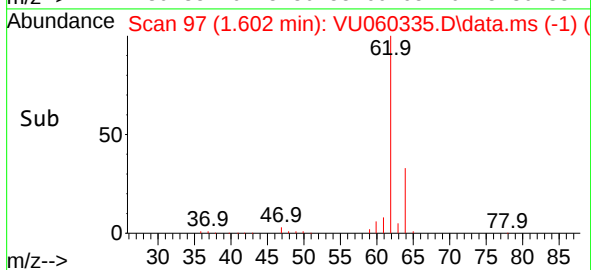
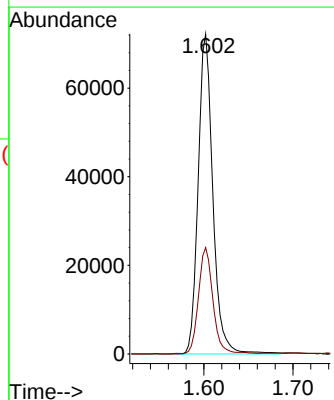
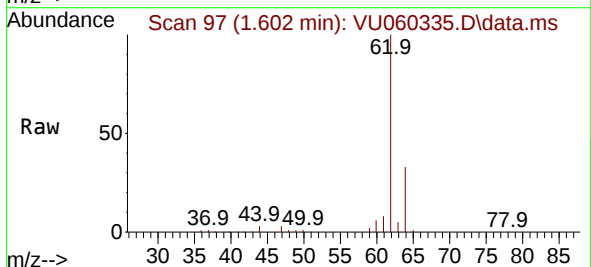
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL

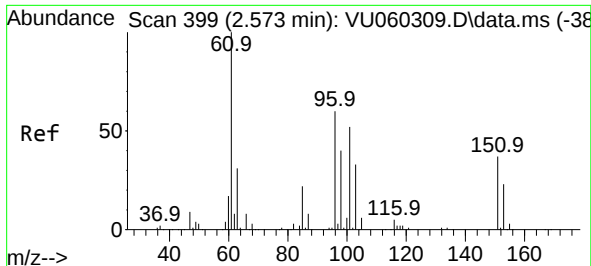
Tgt Ion: 96	Resp: 29887
Ion Ratio	Lower Upper
96 100	
70 18.5	17.2 25.8
95 8.2	7.9 11.9
97 5.8	0.0 0.0



#4
Vinyl Chloride
Concen: 6.303 ug/l
RT: 1.602 min Scan# 97
Delta R.T. 0.000 min
Lab File: VU060335.D
Acq: 07 Aug 2024 14:26

Tgt Ion: 62	Resp: 82818
Ion Ratio	Lower Upper
62 100	
64 33.1	25.8 38.6

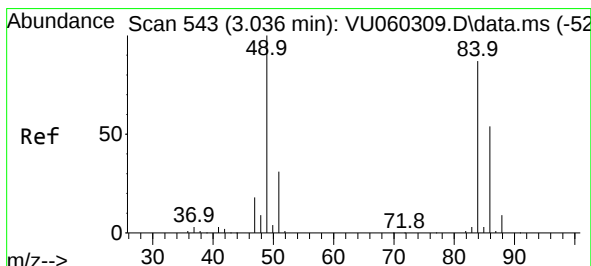
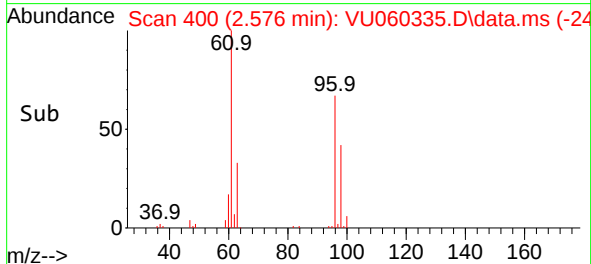
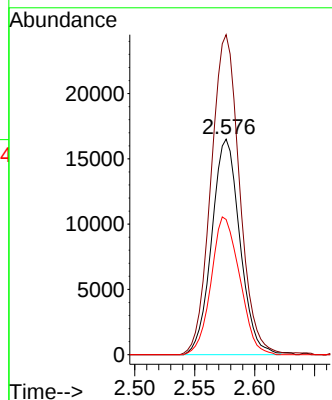
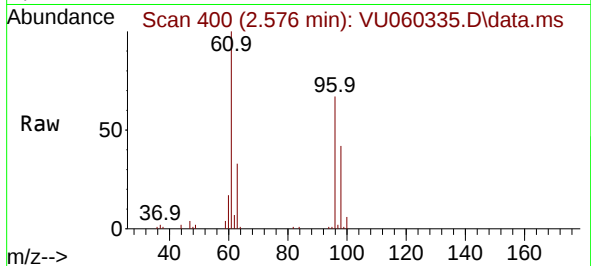




#9
1,1-Dichloroethene
Concen: 3.018 ug/l
RT: 2.576 min Scan# 40
Delta R.T. 0.003 min
Lab File: VU060335.D
Acq: 07 Aug 2024 14:26

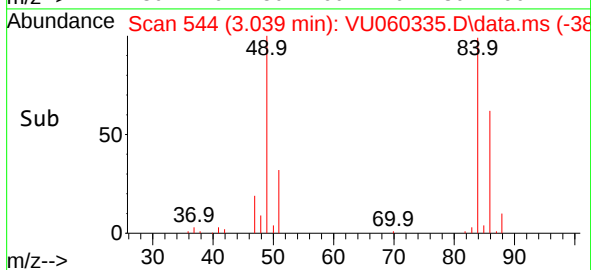
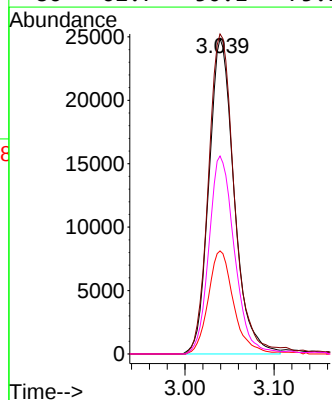
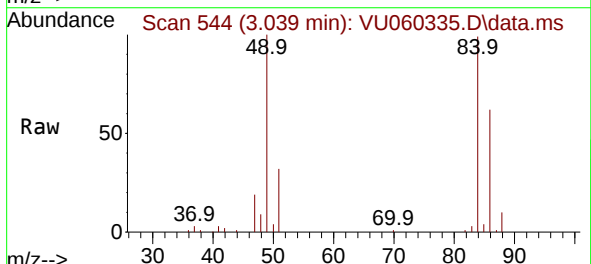
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL

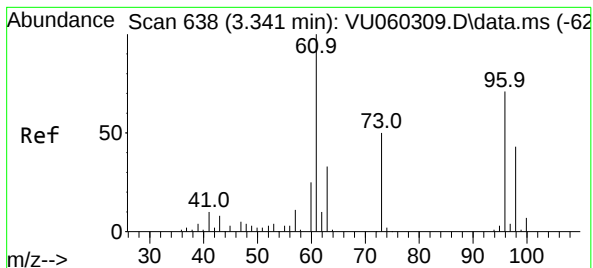
Tgt Ion: 96 Resp: 26966
Ion Ratio Lower Upper
96 100
61 148.4 0.0 495.9
98 62.7 0.0 131.6



#15
Methylene Chloride
Concen: 4.371 ug/l
RT: 3.039 min Scan# 544
Delta R.T. 0.003 min
Lab File: VU060335.D
Acq: 07 Aug 2024 14:26

Tgt Ion: 84 Resp: 48887
Ion Ratio Lower Upper
84 100
49 101.5 92.1 138.1
51 32.7 0.0 72.4
86 62.7 50.1 75.1





#16

trans-1,2-Dichloroethene

Concen: 1.157 ug/l

RT: 3.351 min Scan# 641

Delta R.T. 0.010 min

Lab File: VU060335.D

Acq: 07 Aug 2024 14:26

Instrument :

MSVOA_U

ClientSampleId :

PT-RVOA-WSDL

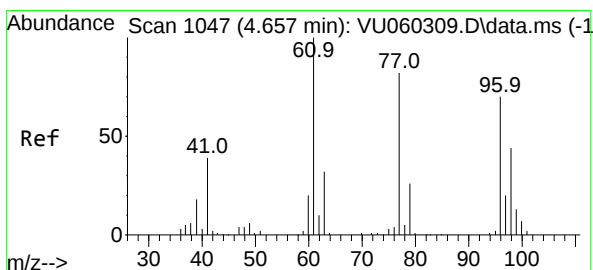
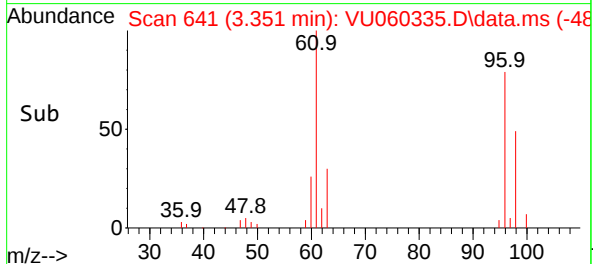
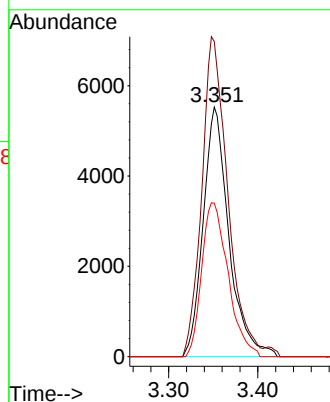
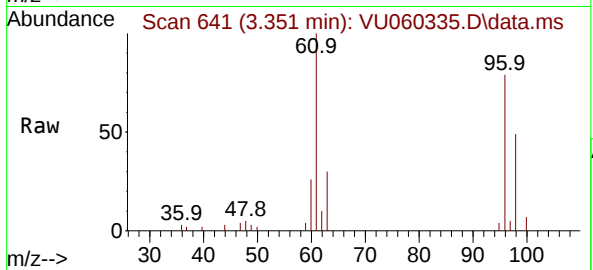
Tgt Ion: 96 Resp: 11079

Ion Ratio Lower Upper

96 100

61 126.3 112.8 169.2

98 61.5 48.7 73.1



#22

cis-1,2-Dichloroethene

Concen: 1.623 ug/l

RT: 4.663 min Scan# 1049

Delta R.T. 0.006 min

Lab File: VU060335.D

Acq: 07 Aug 2024 14:26

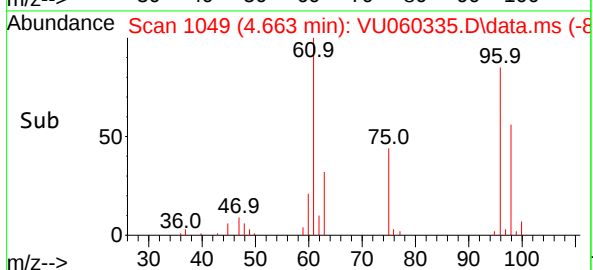
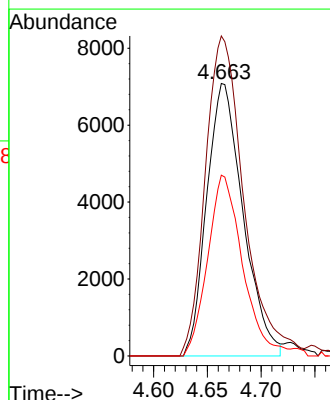
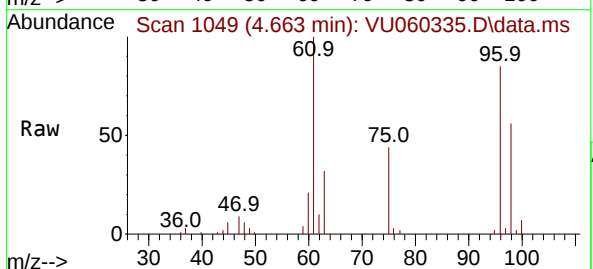
Tgt Ion: 96 Resp: 16641

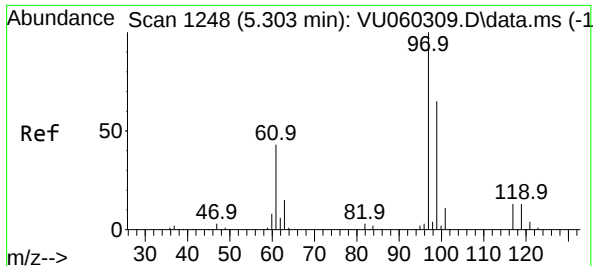
Ion Ratio Lower Upper

96 100

61 124.7 0.0 372.8

98 63.8 31.8 95.4





#28

1,1,1-Trichloroethane

Concen: 1.122 ug/l

RT: 5.309 min Scan# 1

Delta R.T. 0.006 min

Lab File: VU060335.D

Acq: 07 Aug 2024 14:26

Instrument :

MSVOA_U

ClientSampleId :

PT-RVOA-WSDL

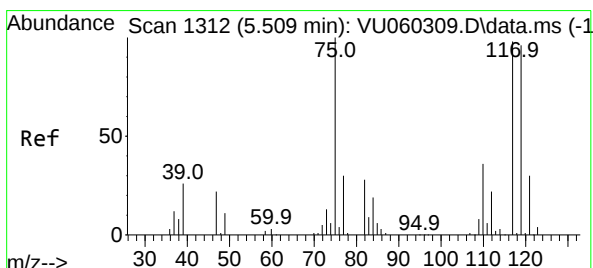
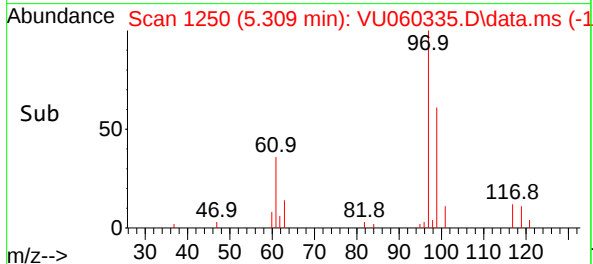
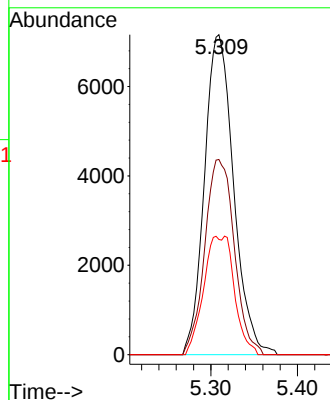
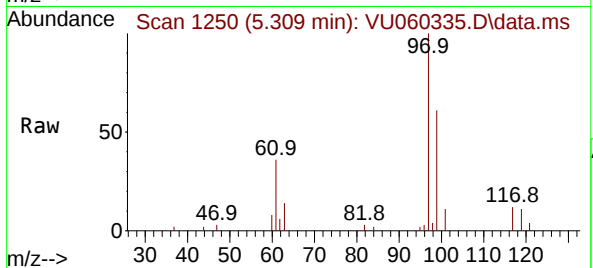
Tgt Ion: 97 Resp: 16790

Ion Ratio Lower Upper

97 100

99 61.7 32.8 98.4

61 23.6 22.3 66.9



#30

Carbon Tetrachloride

Concen: 1.151 ug/l

RT: 5.518 min Scan# 1315

Delta R.T. 0.010 min

Lab File: VU060335.D

Acq: 07 Aug 2024 14:26

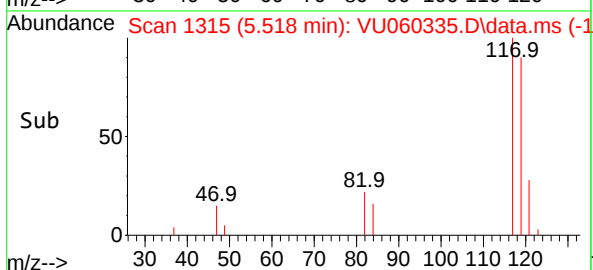
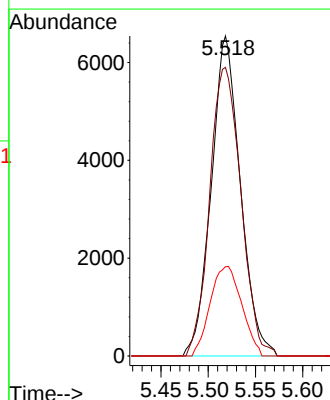
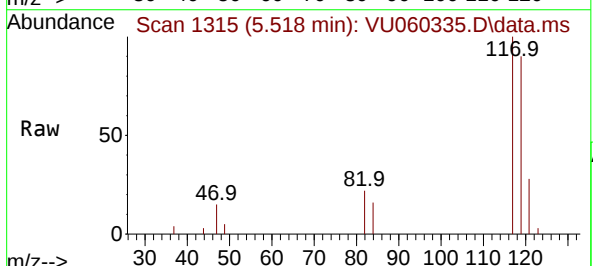
Tgt Ion: 117 Resp: 14030

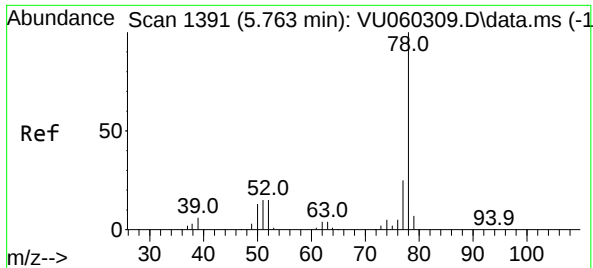
Ion Ratio Lower Upper

117 100

119 90.2 77.8 116.6

121 27.9 24.2 36.2

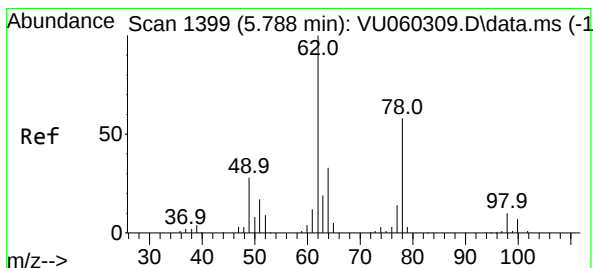
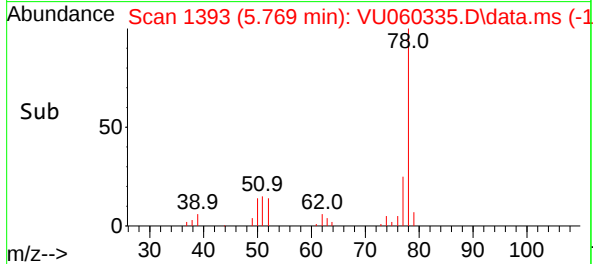
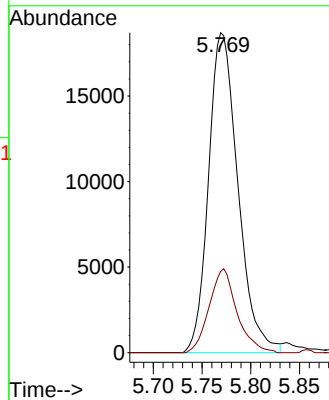
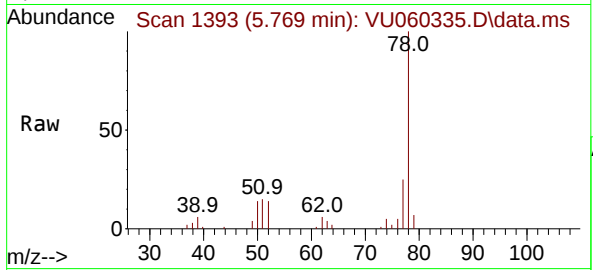




#35
Benzene
Concen: 1.062 ug/l
RT: 5.769 min Scan# 11
Delta R.T. 0.006 min
Lab File: VU060335.D
Acq: 07 Aug 2024 14:26

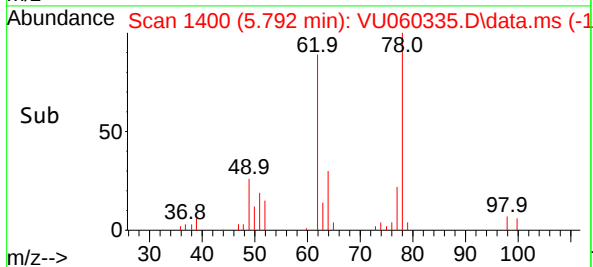
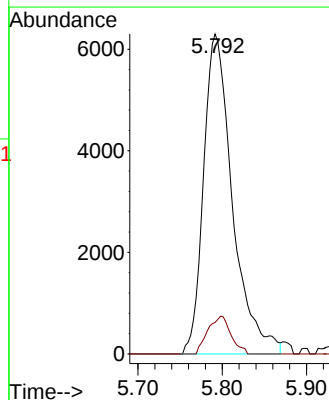
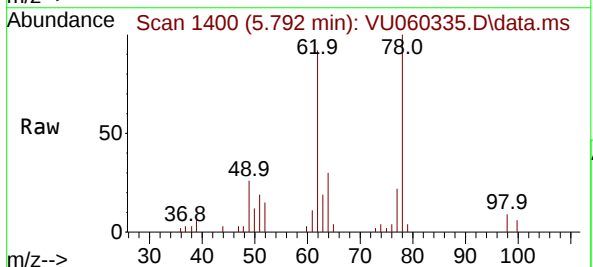
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PT-RVOA-WSDL

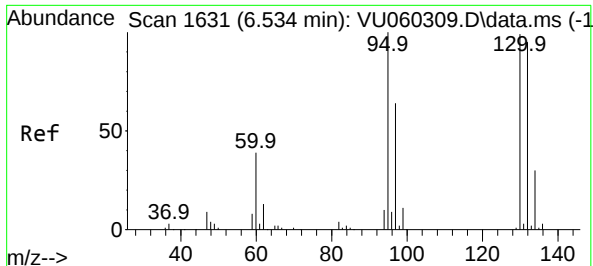
Tgt Ion: 78 Resp: 39227
Ion Ratio Lower Upper
78 100
77 25.4 20.2 30.2



#36
1,2-Dichloroethane
Concen: 1.464 ug/l
RT: 5.792 min Scan# 1400
Delta R.T. 0.003 min
Lab File: VU060335.D
Acq: 07 Aug 2024 14:26

Tgt Ion: 62 Resp: 15033
Ion Ratio Lower Upper
62 100
98 9.4 8.1 12.1





#37

Trichloroethene

Concen: 0.534 ug/l

RT: 6.537 min Scan# 1

Delta R.T. 0.003 min

Lab File: VU060335.D

Acq: 07 Aug 2024 14:26

Instrument :

MSVOA_U

ClientSampleId :

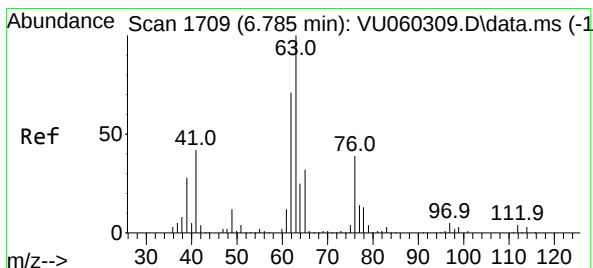
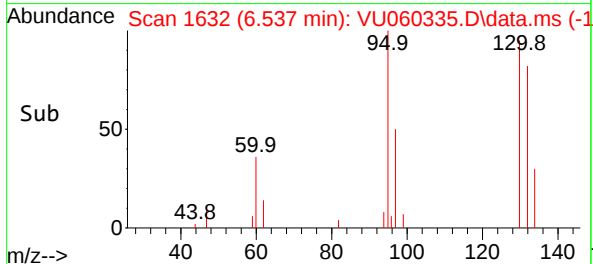
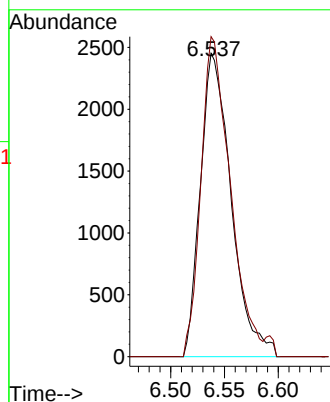
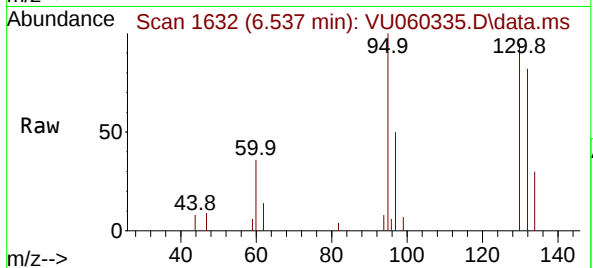
PT-RVOA-WSDL

Tgt Ion:130 Resp: 4885

Ion Ratio Lower Upper

130 100

95 105.5 80.6 121.0



#38

1,2-Dichloropropane

Concen: 1.476 ug/l

RT: 6.785 min Scan# 1709

Delta R.T. 0.000 min

Lab File: VU060335.D

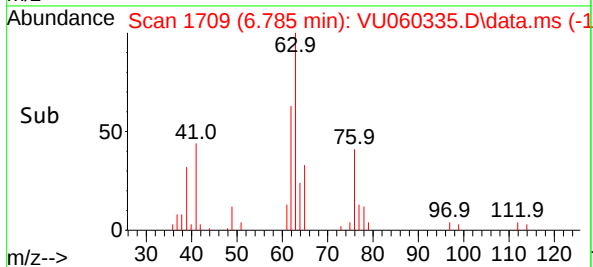
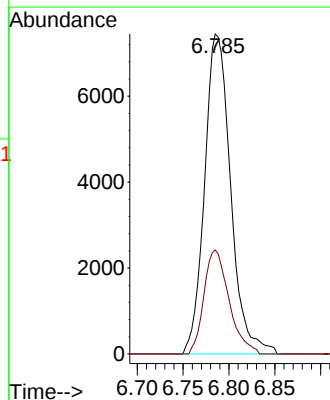
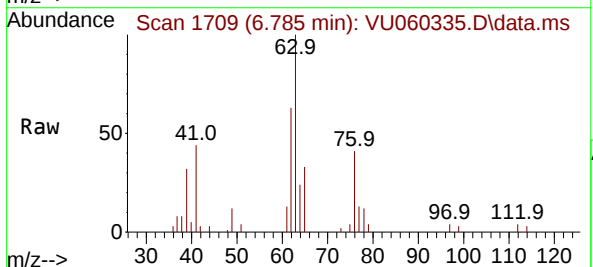
Acq: 07 Aug 2024 14:26

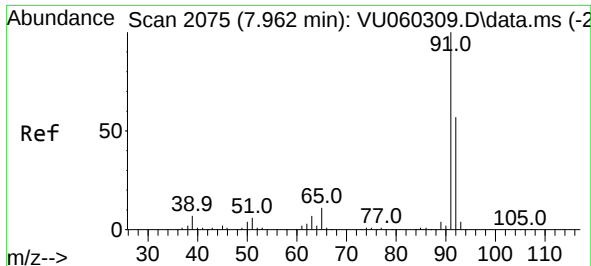
Tgt Ion: 63 Resp: 14748

Ion Ratio Lower Upper

63 100

65 32.5 25.6 38.4





#49

Toluene

Concen: 2.409 ug/l

RT: 7.965 min Scan# 2075

Delta R.T. 0.003 min

Lab File: VU060335.D

Acq: 07 Aug 2024 14:26

Instrument :

MSVOA_U

ClientSampleId :

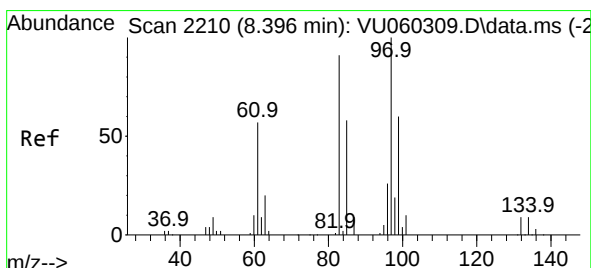
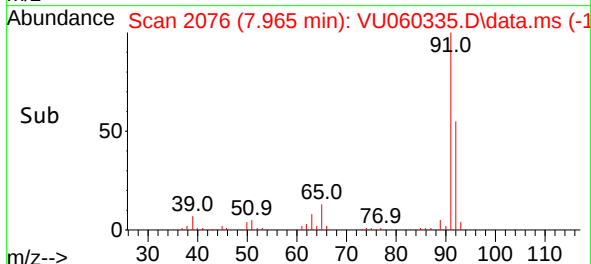
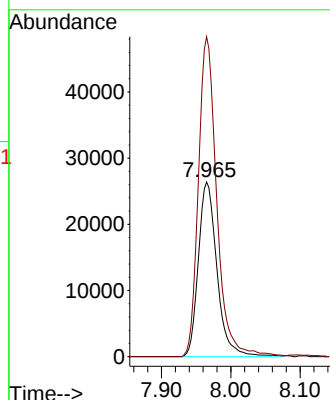
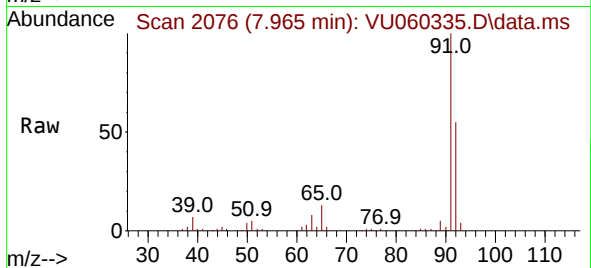
PT-RVOA-WSDL

Tgt Ion: 92 Resp: 49341

Ion Ratio Lower Upper

92 100

91 180.7 141.0 211.4



#52

1,1,2-Trichloroethane

Concen: 2.510 ug/l

RT: 8.396 min Scan# 2210

Delta R.T. -0.000 min

Lab File: VU060335.D

Acq: 07 Aug 2024 14:26

Tgt Ion: 97 Resp: 18627

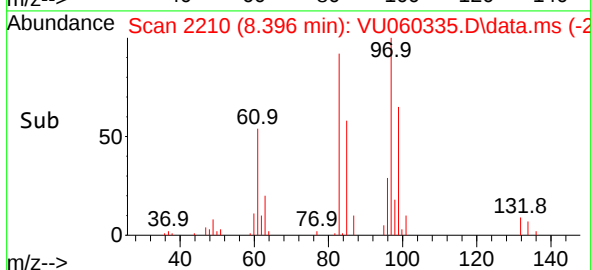
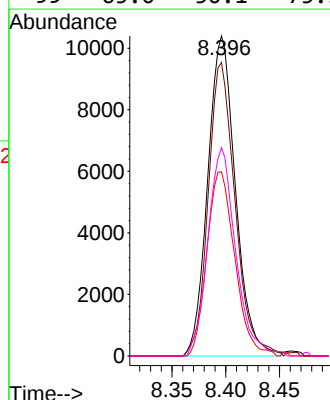
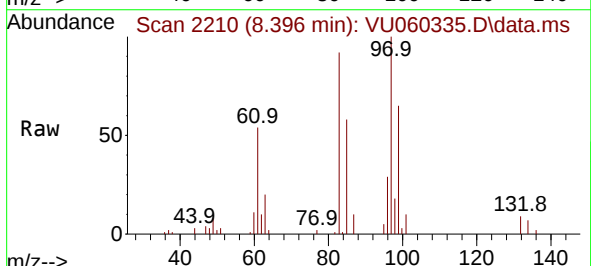
Ion Ratio Lower Upper

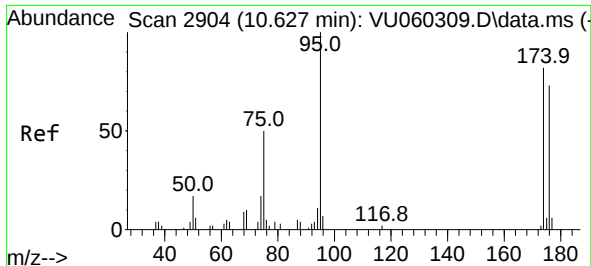
97 100

83 91.7 73.0 109.4

85 57.5 46.2 69.4

99 65.0 50.1 75.1

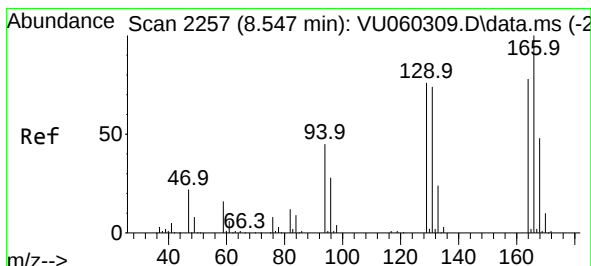
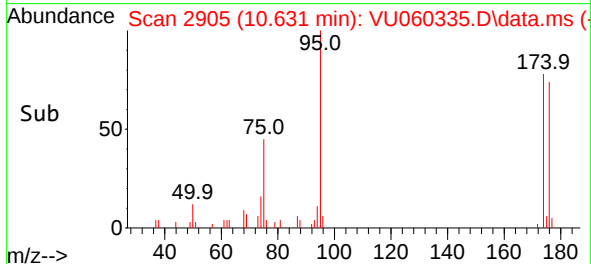
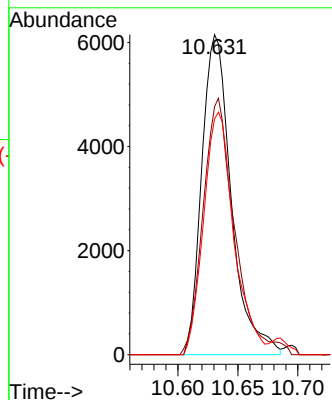
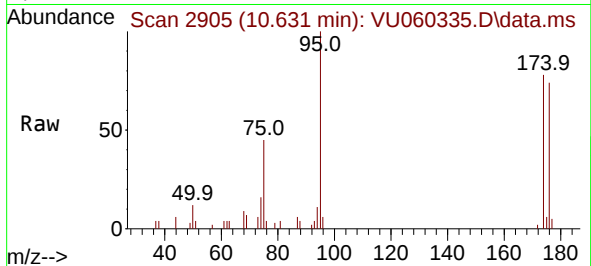




#57
4-Bromofluorobenzene
Concen: 1.032 ug/l
RT: 10.631 min Scan# 2905
Delta R.T. 0.003 min
Lab File: VU060335.D
Acq: 07 Aug 2024 14:26

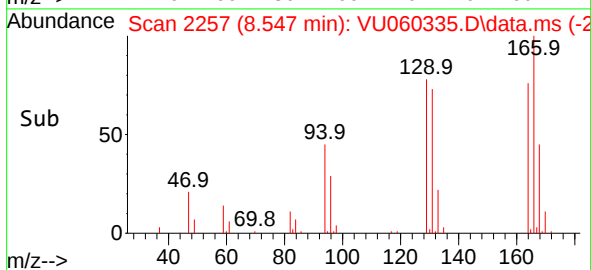
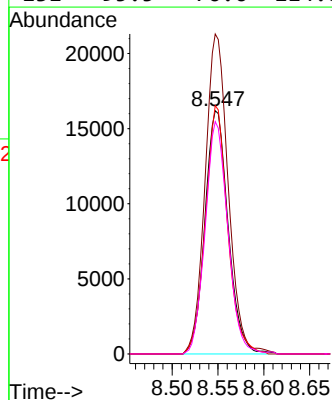
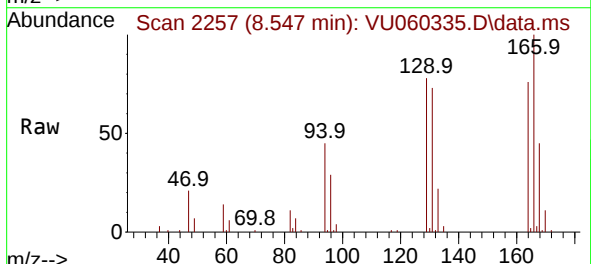
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL

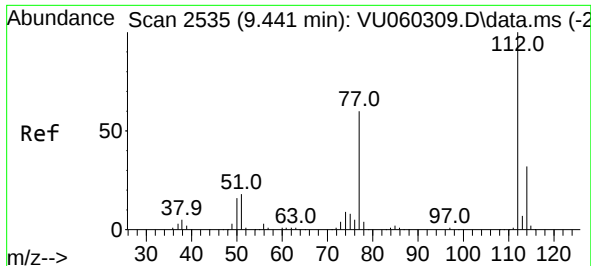
Tgt Ion: 95 Resp: 10510
Ion Ratio Lower Upper
95 100
174 85.4 65.6 98.4
176 77.8 60.4 90.6



#58
Tetrachloroethene
Concen: 3.500 ug/l
RT: 8.547 min Scan# 2257
Delta R.T. -0.000 min
Lab File: VU060335.D
Acq: 07 Aug 2024 14:26

Tgt Ion: 164 Resp: 28603
Ion Ratio Lower Upper
164 100
166 131.6 102.9 154.3
129 102.1 78.0 117.0
131 95.5 76.6 114.8





#59

Chlorobenzene

Concen: 1.061 ug/l

RT: 9.444 min Scan# 21

Delta R.T. 0.003 min

Lab File: VU060335.D

Acq: 07 Aug 2024 14:26

Instrument :

MSVOA_U

ClientSampleId :

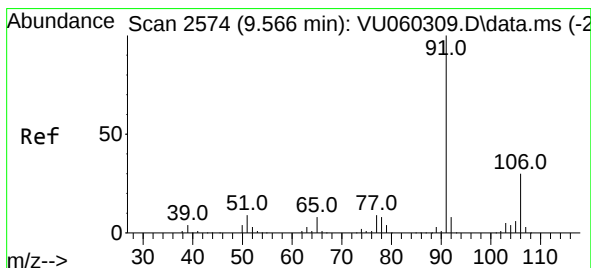
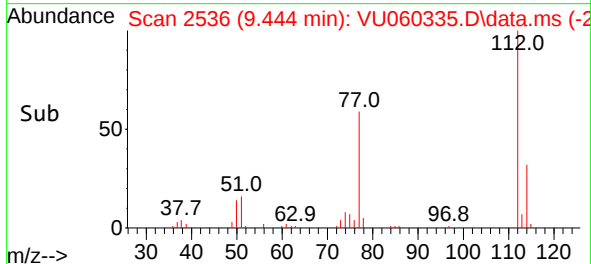
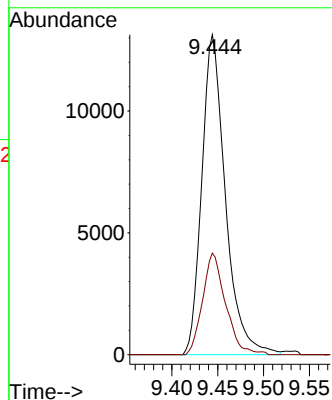
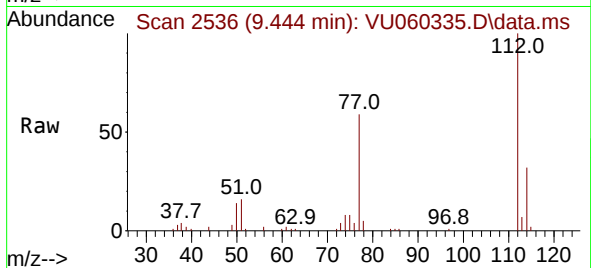
PT-RVOA-WSDL

Tgt Ion:112 Resp: 23520

Ion Ratio Lower Upper

112 100

114 31.8 25.3 37.9



#63

Ethyl Benzene

Concen: 3.417 ug/l

RT: 9.566 min Scan# 2574

Delta R.T. 0.000 min

Lab File: VU060335.D

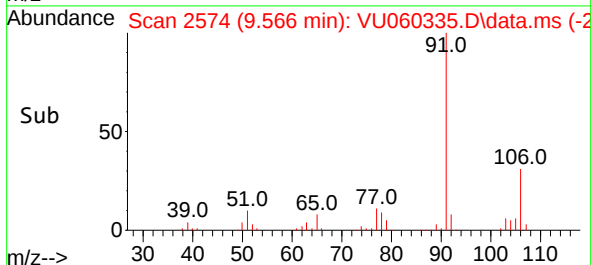
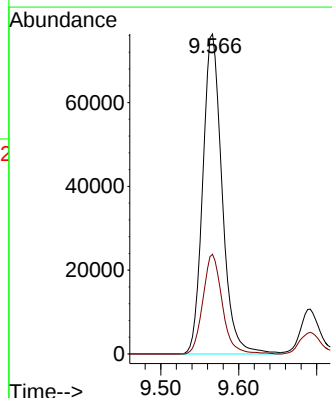
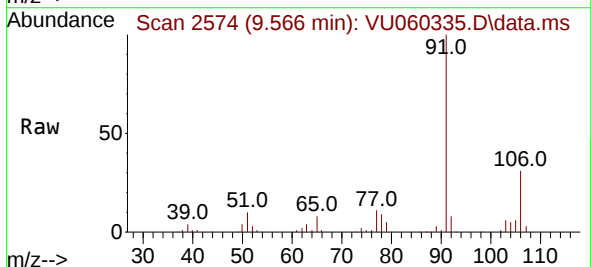
Acq: 07 Aug 2024 14:26

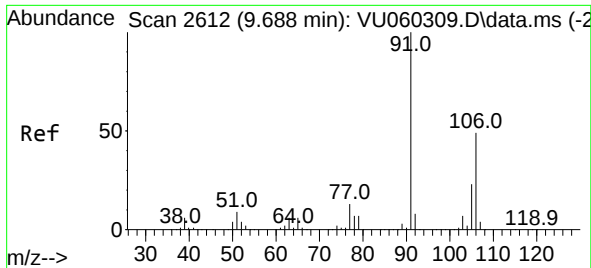
Tgt Ion: 91 Resp: 131355

Ion Ratio Lower Upper

91 100

106 31.2 24.4 36.6

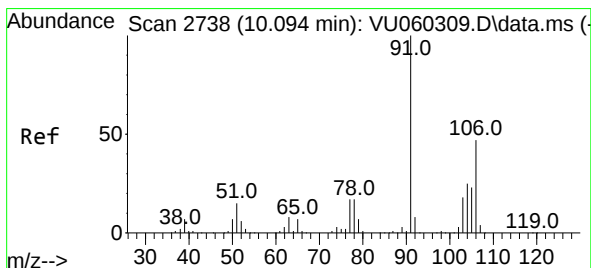
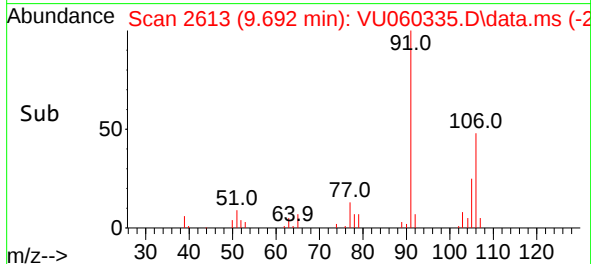
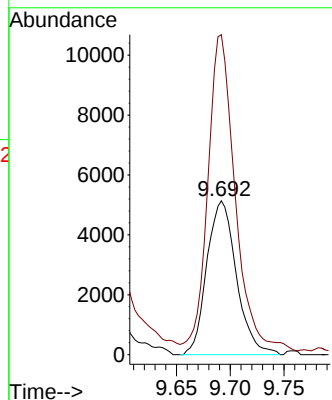
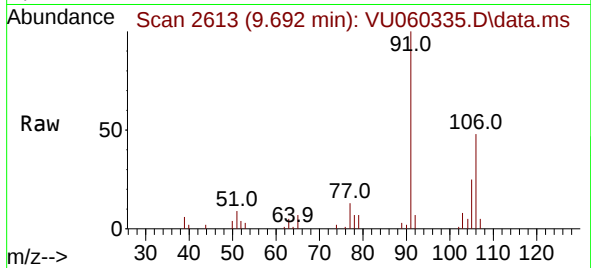




#64
m/p-Xylenes
Concen: 1.446 ug/l
RT: 9.692 min Scan# 2613
Delta R.T. 0.004 min
Lab File: VU060335.D
Acq: 07 Aug 2024 14:26

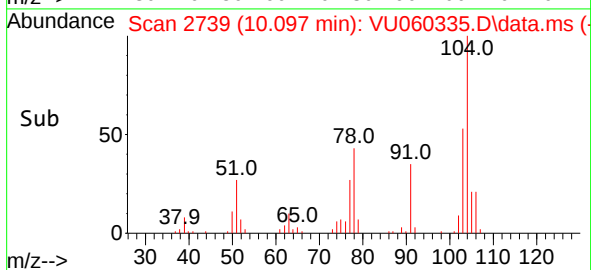
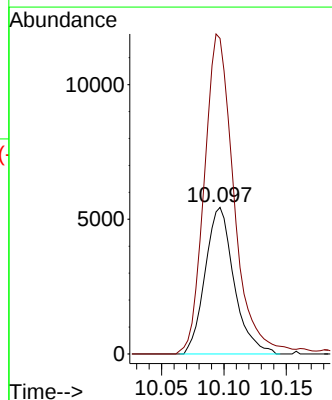
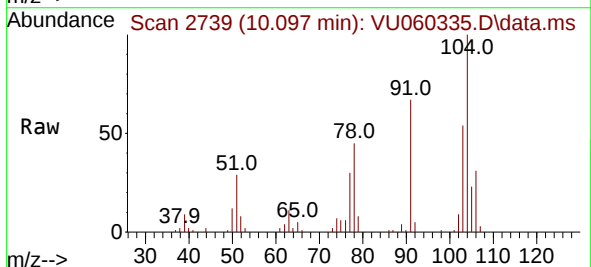
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL

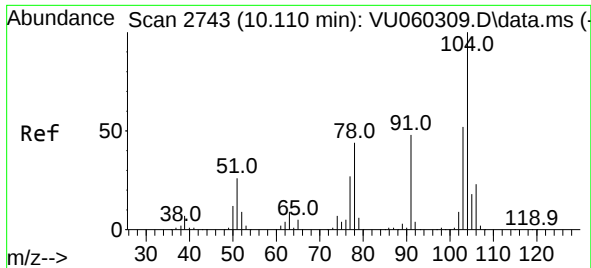
Tgt Ion:106 Resp: 9847
Ion Ratio Lower Upper
106 100
91 191.3 165.0 247.4



#65
o-Xylene
Concen: 0.961 ug/l
RT: 10.097 min Scan# 2739
Delta R.T. 0.003 min
Lab File: VU060335.D
Acq: 07 Aug 2024 14:26

Tgt Ion:106 Resp: 8773
Ion Ratio Lower Upper
106 100
91 224.0 108.8 326.4

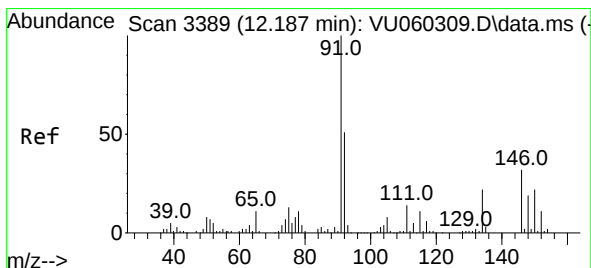
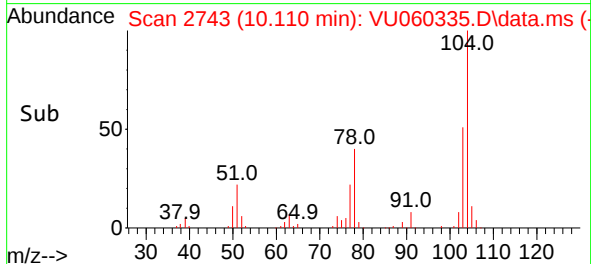
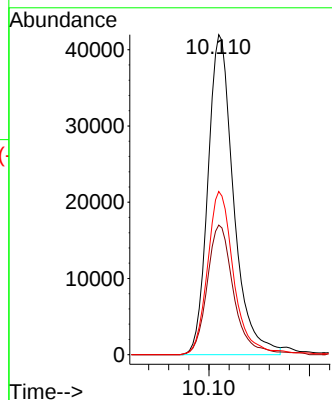
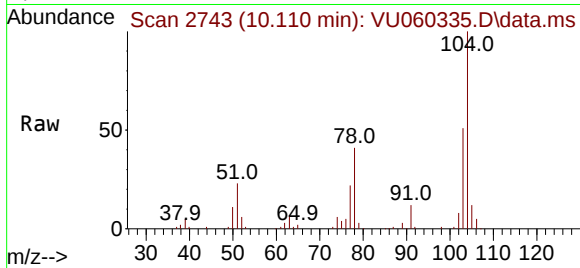




#66
 Styrene
 Concen: 3.016 ug/l
 RT: 10.110 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VU060335.D
 Acq: 07 Aug 2024 14:26

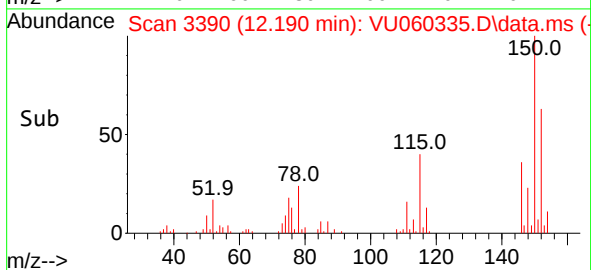
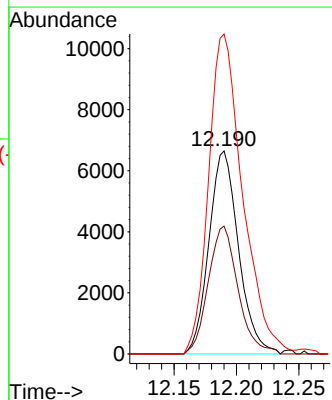
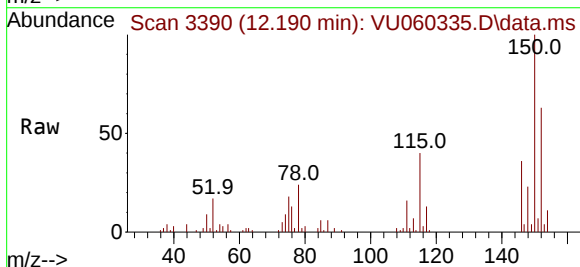
Instrument :
 MSVOA_U
 ClientSampleId :
 PT-RVOA-WSDL

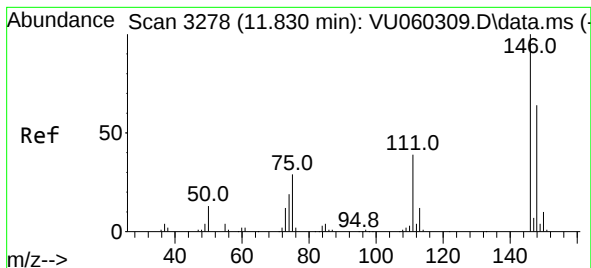
Tgt Ion:104	Resp:	74280
Ion Ratio	Lower	Upper
104	100	
78	42.2	39.0 58.6
103	52.8	45.0 67.6



#68
 1,2-Dichlorobenzene-d4
 Concen: 0.995 ug/l
 RT: 12.190 min Scan# 3390
 Delta R.T. 0.003 min
 Lab File: VU060335.D
 Acq: 07 Aug 2024 14:26

Tgt Ion:152	Resp:	11002
Ion Ratio	Lower	Upper
152	100	
115	63.2	0.0 325.2
150	181.1	0.0 684.2





#83

1,4-Dichlorobenzene

Concen: 1.732 ug/l

RT: 11.833 min Scan# 31

Delta R.T. 0.003 min

Lab File: VU060335.D

Acq: 07 Aug 2024 14:26

Instrument :

MSVOA_U

ClientSampleId :

PT-RVOA-WSDL

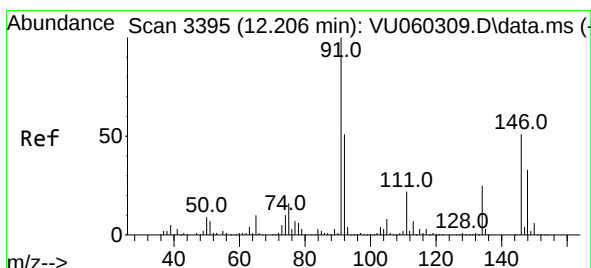
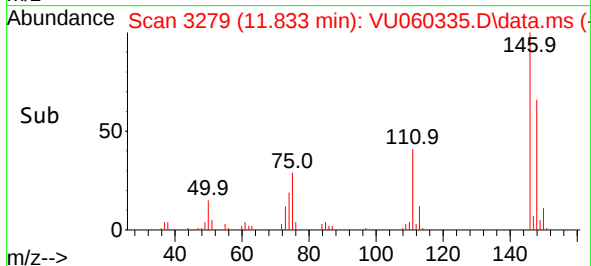
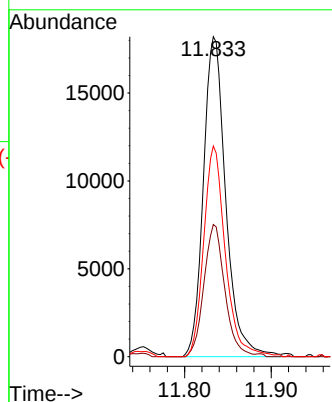
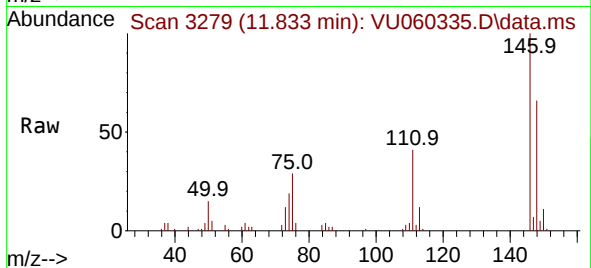
Tgt Ion:146 Resp: 32673

Ion Ratio Lower Upper

146 100

111 38.5 30.9 46.3

148 63.6 51.8 77.6



#85

1,2-Dichlorobenzene

Concen: 1.551 ug/l

RT: 12.209 min Scan# 3396

Delta R.T. 0.003 min

Lab File: VU060335.D

Acq: 07 Aug 2024 14:26

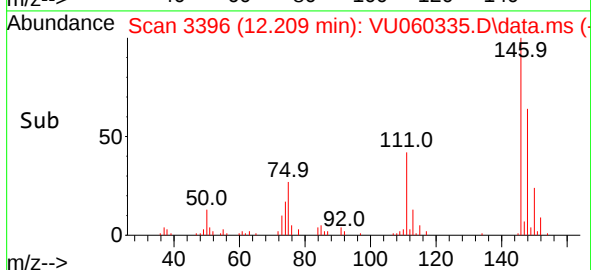
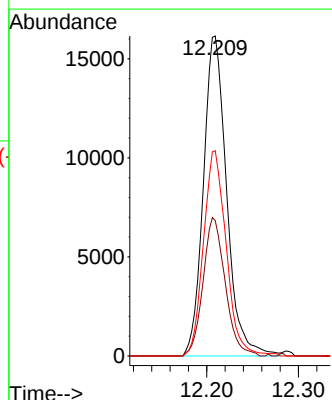
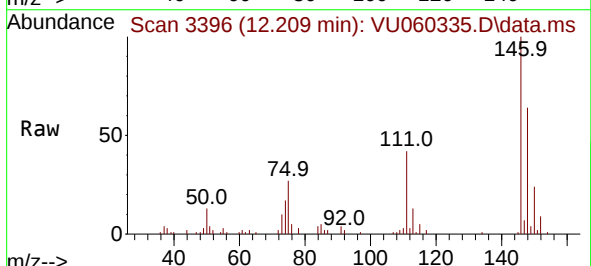
Tgt Ion:146 Resp: 28512

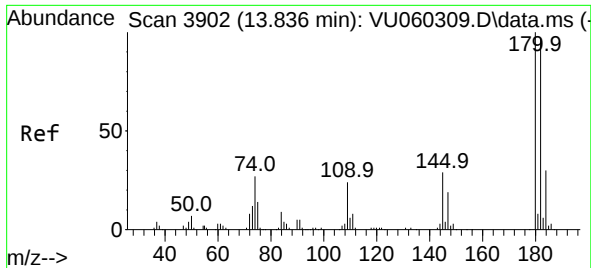
Ion Ratio Lower Upper

146 100

111 41.2 21.3 63.7

148 62.7 32.0 96.0





#87

1,2,4-Trichlorobenzene

Concen: 2.162 ug/l

RT: 13.836 min Scan# 3902

Delta R.T. 0.000 min

Lab File: VU060335.D

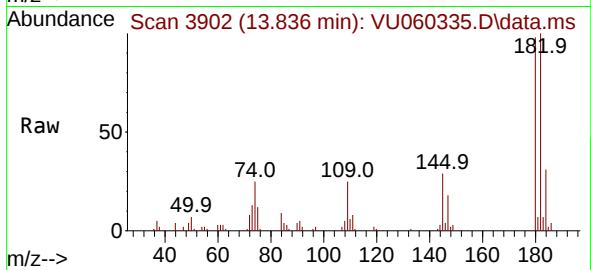
Acq: 07 Aug 2024 14:26

Instrument :

MSVOA_U

ClientSampleId :

PT-RVOA-WSDL



Tgt Ion:180 Resp: 22724

Ion Ratio Lower Upper

180 100

182 97.6 76.8 115.2

145 28.3 23.4 35.0

