

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU020224\
 Data File : VU057792.D
 Acq On : 02 Feb 2024 13:52
 Operator : MD/SY
 Sample : P1174-07DL 5X
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-RVOA-WSDL

Quant Time: Feb 03 05:55:22 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)

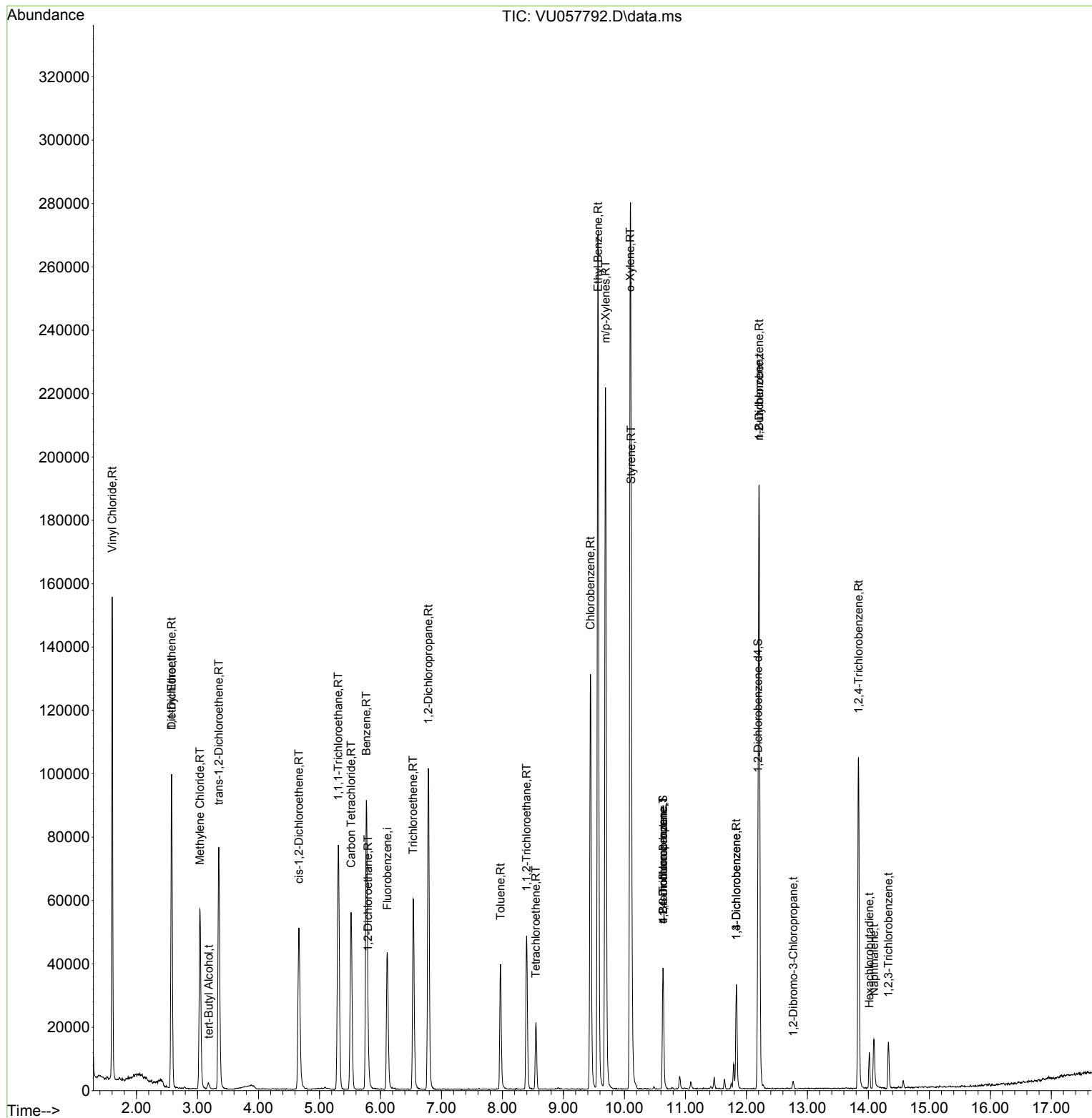
Internal Standards						
1) Fluorobenzene	6.113	96	41542	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.634	95	14552	0.925	ug/l	0.00
Spiked Amount 1.000			Recovery	=	93.000%	
68) 1,2-Dichlorobenzene-d4	12.190	152	13206	0.932	ug/l	0.00
Spiked Amount 1.000			Recovery	=	93.000%	
Target Compounds						
						Qvalue
4) Vinyl Chloride	1.602	62	102293	7.559	ug/l	100
9) 1,1-Dichloroethene	2.576	96	33414	3.236	ug/l	93
15) Methylene Chloride	3.039	84	28182	2.285	ug/l	99
16) trans-1,2-Dichloroethene	3.351	96	32845	2.914	ug/l	96
22) cis-1,2-Dichloroethene	4.663	96	27443	2.223	ug/l	91
23) Diethyl Ether	2.576	59	1913	0.257	ug/l #	15
24) tert-Butyl Alcohol	3.184	59	1337	1.578	ug/l #	1
28) 1,1,1-Trichloroethane	5.309	97	56982	2.852	ug/l	100
30) Carbon Tetrachloride	5.518	117	37843	2.199	ug/l	94
35) Benzene	5.769	78	88134	1.894	ug/l	99
36) 1,2-Dichloroethane	5.795	62	8247	0.608	ug/l #	90
37) Trichloroethene	6.537	130	20440	1.654	ug/l	96
38) 1,2-Dichloropropane	6.785	63	38529	3.193	ug/l	99
46) t-1,4-Dichloro-2-butene	10.634	75	7879	5.478	ug/l #	17
49) Toluene	7.968	92	17272	0.608	ug/l	99
52) 1,1,2-Trichloroethane	8.396	97	15546	2.033	ug/l	96
58) Tetrachloroethene	8.550	164	4521	0.415	ug/l	94
59) Chlorobenzene	9.444	112	70840	2.254	ug/l	100
63) Ethyl Benzene	9.566	91	198306	3.548	ug/l	100
64) m/p-Xylenes	9.692	106	64937	3.199	ug/l	97
65) o-Xylene	10.097	106	63679	3.169	ug/l	94
66) Styrene	10.113	104	57305	1.911	ug/l #	89
71) 1,2,3-Trichloropropane	10.634	75	7879	0.996	ug/l #	33
82) 1,3-Dichlorobenzene	11.836	146	14046	0.599	ug/l	97
83) 1,4-Dichlorobenzene	11.836	146	14046	0.614	ug/l	98
84) n-Butylbenzene	12.209	91	9216	0.211	ug/l	98
85) 1,2-Dichlorobenzene	12.209	146	64906	3.052	ug/l	97
86) 1,2-Dibromo-3-Chloropr...	12.769	75	42	0.401	ug/l #	5
87) 1,2,4-Trichlorobenzene	13.839	180	30897	2.432	ug/l	97
88) Hexachlorobutadiene	14.016	225	1929	0.237	ug/l	97
89) Naphthalene	14.093	128	16500	0.841	ug/l	97
90) 1,2,3-Trichlorobenzene	14.328	180	4612	0.436	ug/l	97

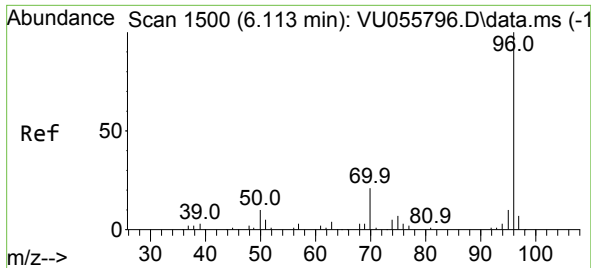
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL

Quant Time: Feb 03 05:55:22 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

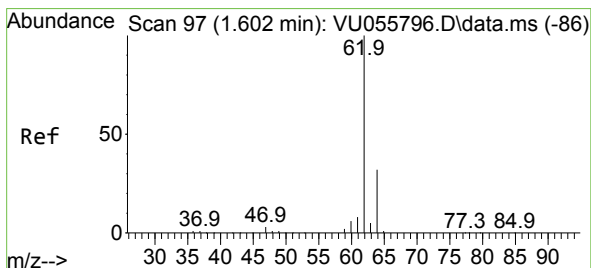
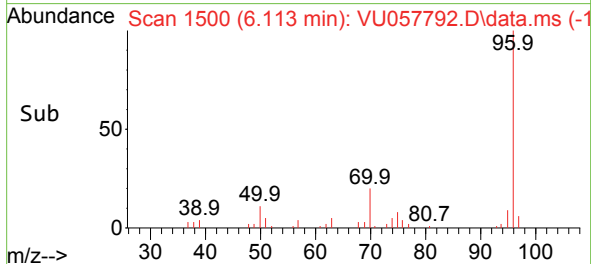
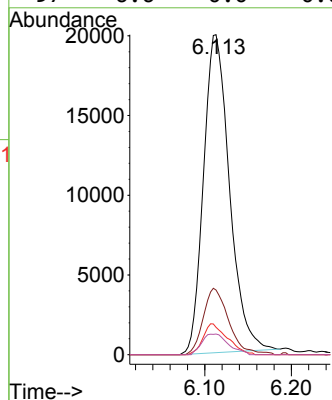
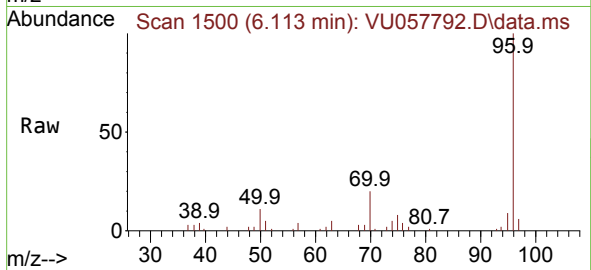




#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.113 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU057792.D
Acq: 02 Feb 2024 13:52

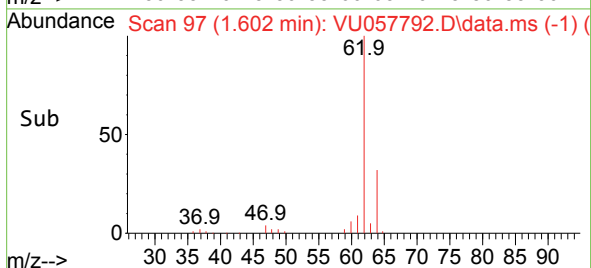
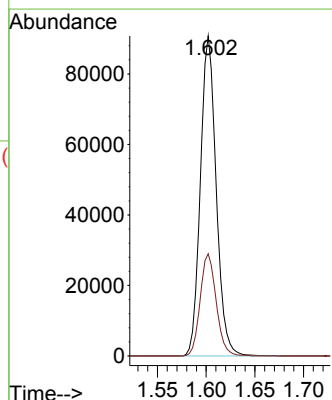
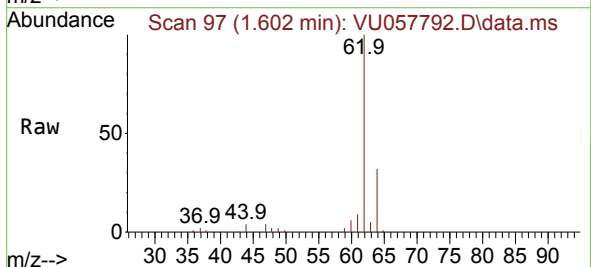
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL

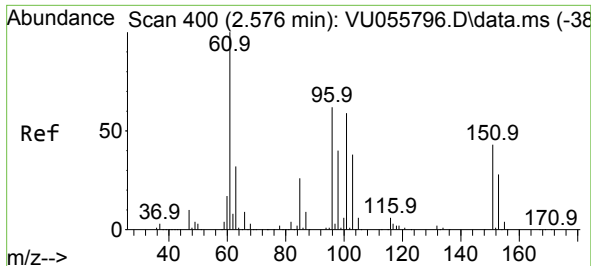
Tgt Ion: 96 Resp: 41542
Ion Ratio Lower Upper
96 100
70 20.5 16.5 24.7
95 9.1 7.4 11.0
97 6.6 0.0 0.0#



#4
Vinyl Chloride
Concen: 7.559 ug/l
RT: 1.602 min Scan# 97
Delta R.T. -0.000 min
Lab File: VU057792.D
Acq: 02 Feb 2024 13:52

Tgt Ion: 62 Resp: 102293
Ion Ratio Lower Upper
62 100
64 31.9 25.4 38.2

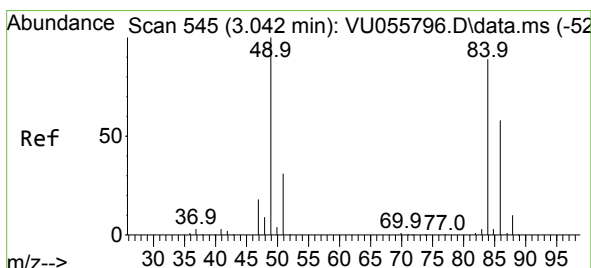
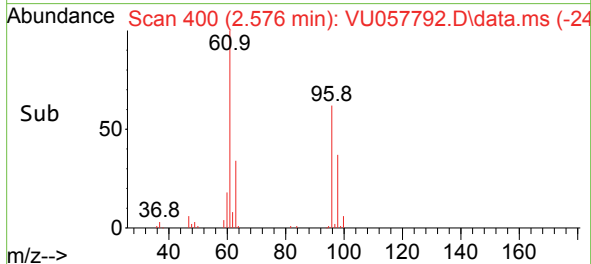
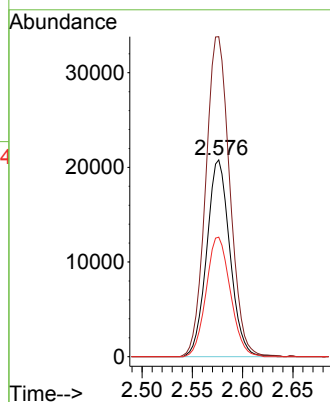
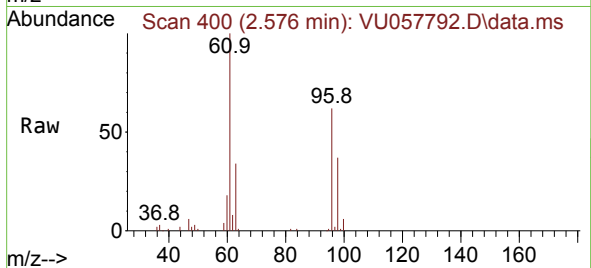




#9
1,1-Dichloroethene
Concen: 3.236 ug/l
RT: 2.576 min Scan# 400
Delta R.T. 0.000 min
Lab File: VU057792.D
Acq: 02 Feb 2024 13:52

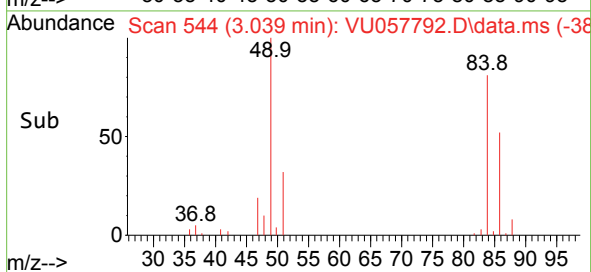
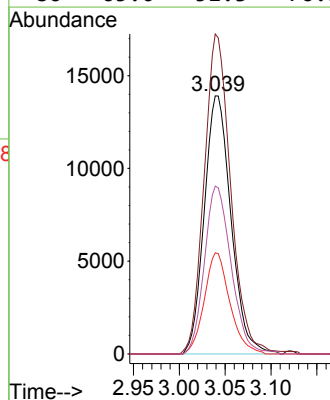
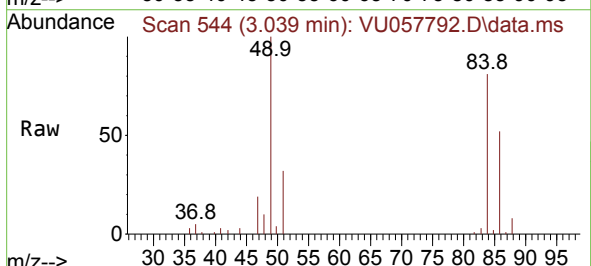
Instrument :
MSVOA_U
ClientSampleId :
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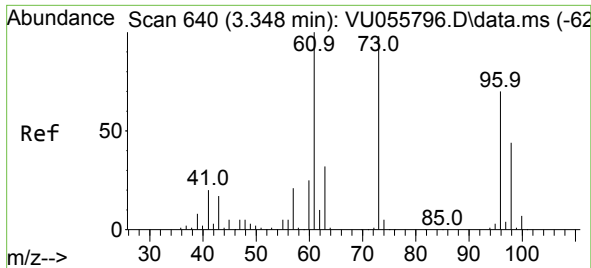
Tgt Ion: 96 Resp: 33414
Ion Ratio Lower Upper
96 100
61 162.6 0.0 521.4
98 60.7 0.0 125.8



#15
Methylene Chloride
Concen: 2.285 ug/l
RT: 3.039 min Scan# 544
Delta R.T. -0.003 min
Lab File: VU057792.D
Acq: 02 Feb 2024 13:52

Tgt Ion: 84 Resp: 28182
Ion Ratio Lower Upper
84 100
49 124.0 98.9 148.3
51 39.2 0.0 75.4
86 65.0 51.3 76.9

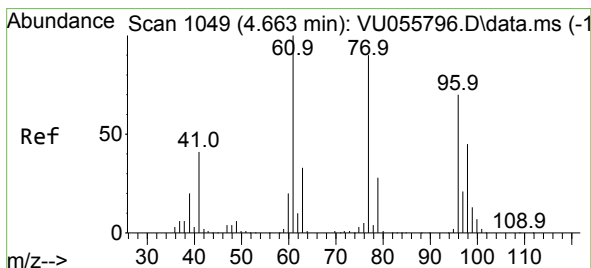
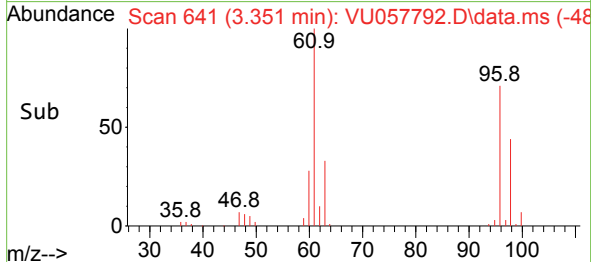
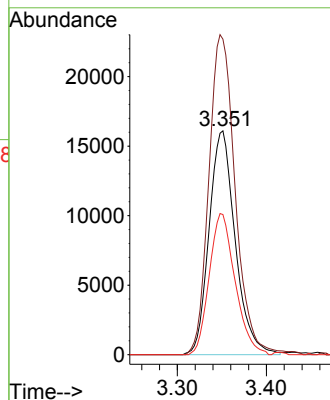
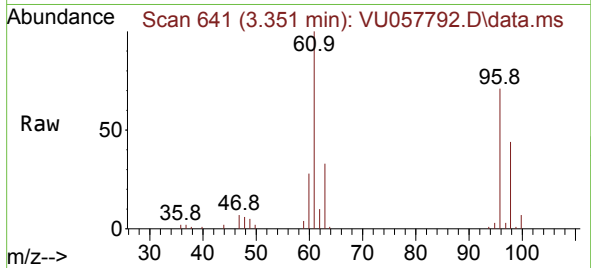




#16
trans-1,2-Dichloroethene
Concen: 2.914 ug/l
RT: 3.351 min Scan# 641
Delta R.T. 0.003 min
Lab File: VU057792.D
Acq: 02 Feb 2024 13:52

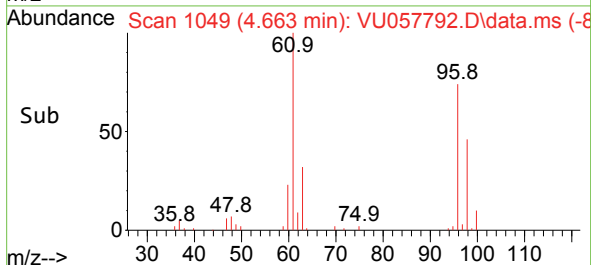
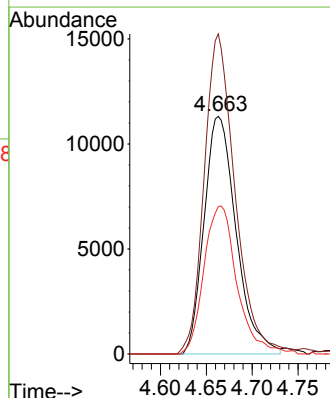
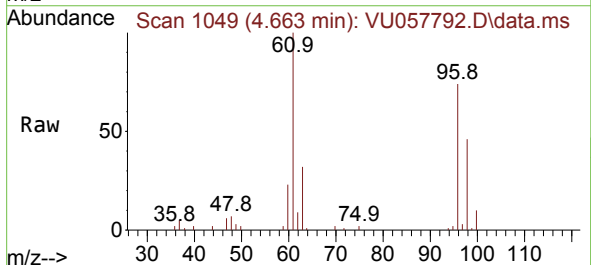
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL

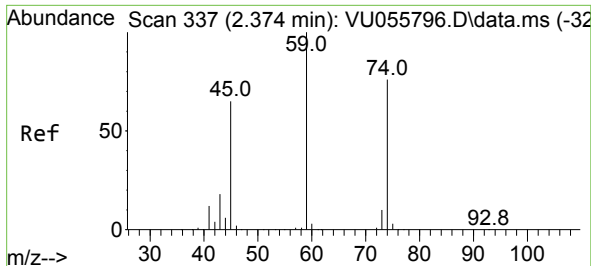
Tgt Ion: 96 Resp: 32845
Ion Ratio Lower Upper
96 100
61 141.0 117.5 176.3
98 62.6 48.3 72.5



#22
cis-1,2-Dichloroethene
Concen: 2.223 ug/l
RT: 4.663 min Scan# 1049
Delta R.T. -0.000 min
Lab File: VU057792.D
Acq: 02 Feb 2024 13:52

Tgt Ion: 96 Resp: 27443
Ion Ratio Lower Upper
96 100
61 130.2 0.0 365.8
98 64.2 32.0 96.0





#23

Diethyl Ether

Concen: 0.257 ug/l

RT: 2.576 min Scan# 40

Delta R.T. 0.202 min

Lab File: VU057792.D

Acq: 02 Feb 2024 13:52

Instrument :

MSVOA_U

ClientSampleId :

PT-RVOA-WSDL

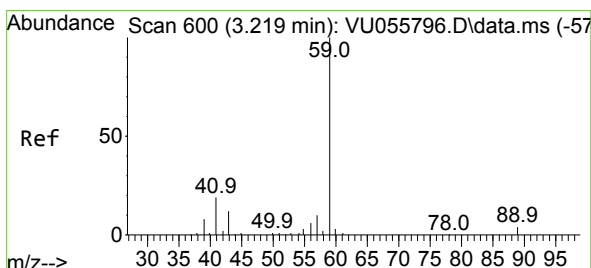
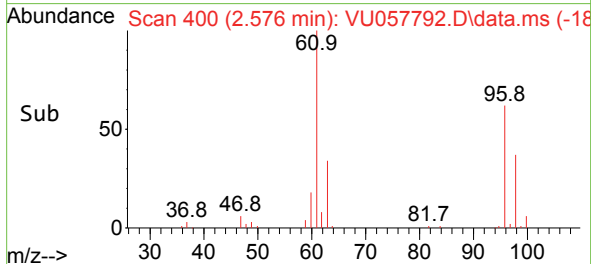
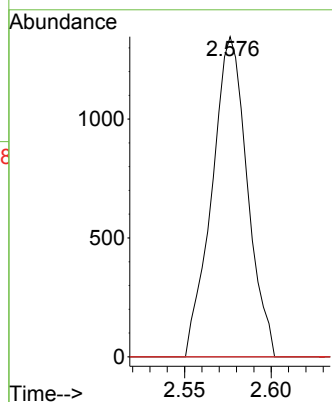
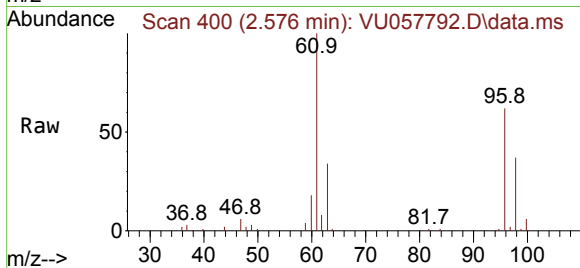
Tgt Ion: 59 Resp: 1913

Ion Ratio Lower Upper

59 100

45 1.2 56.1 84.1#

74 0.0 57.4 86.2#



#24

tert-Butyl Alcohol

Concen: 1.578 ug/l

RT: 3.184 min Scan# 589

Delta R.T. -0.035 min

Lab File: VU057792.D

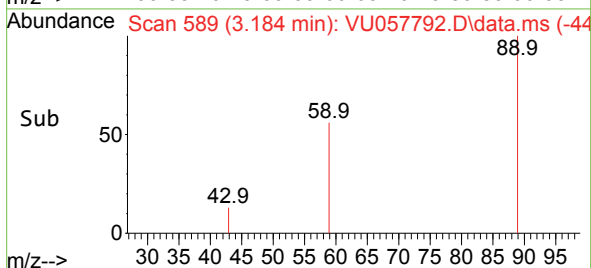
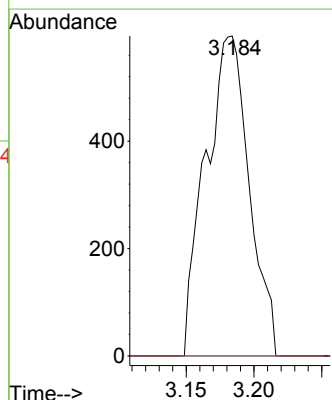
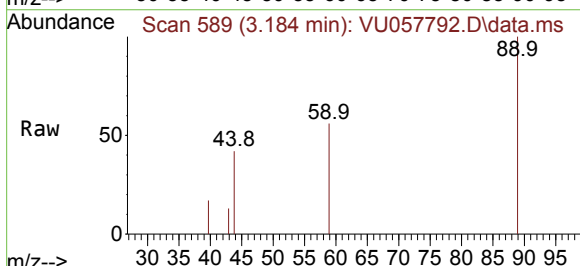
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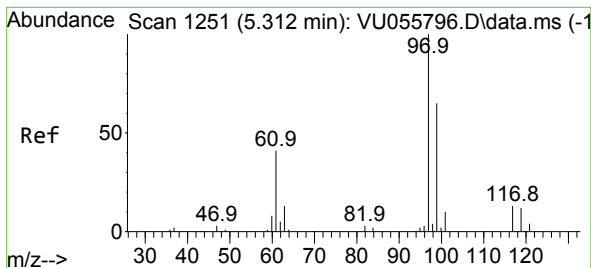
Tgt Ion: 59 Resp: 1337

Ion Ratio Lower Upper

59 100

57 0.0 105.6 158.4#





#28

1,1,1-Trichloroethane

Concen: 2.852 ug/l

RT: 5.309 min Scan# 11

Delta R.T. -0.003 min

Lab File: VU057792.D

Acq: 02 Feb 2024 13:52

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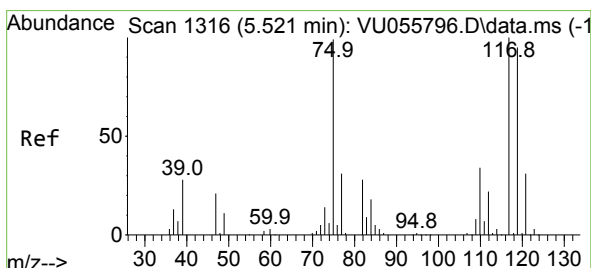
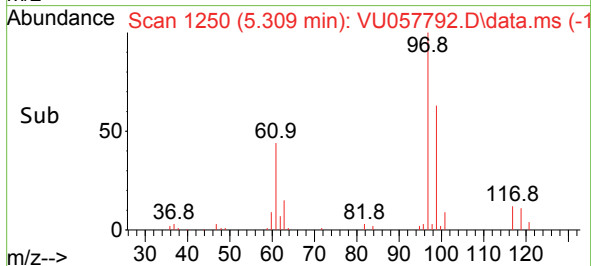
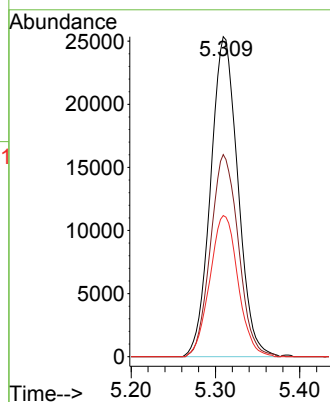
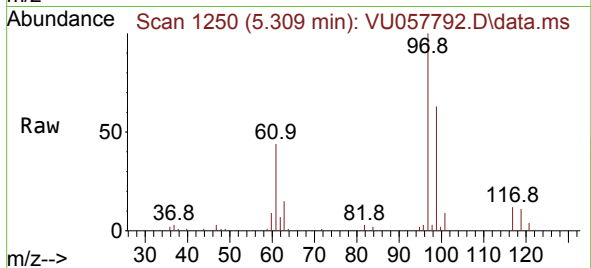
Tgt Ion: 97 Resp: 56982

Ion Ratio Lower Upper

97 100

99 64.6 32.0 96.2

61 45.6 22.9 68.5



#30

Carbon Tetrachloride

Concen: 2.199 ug/l

RT: 5.518 min Scan# 1315

Delta R.T. -0.003 min

Lab File: VU057792.D

Acq: 02 Feb 2024 13:52

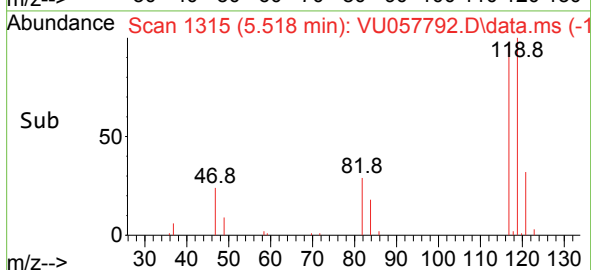
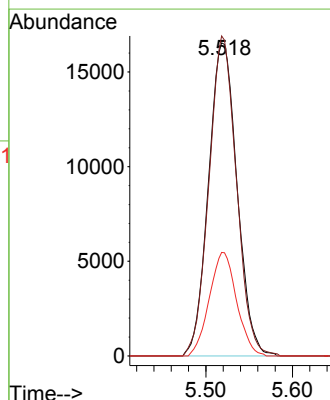
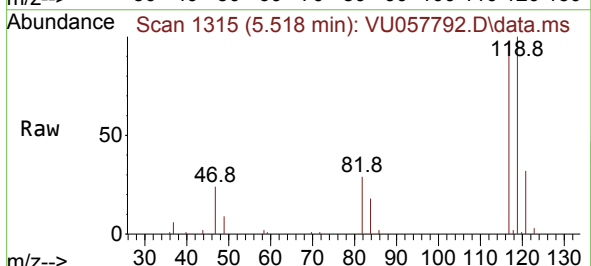
Tgt Ion: 117 Resp: 37843

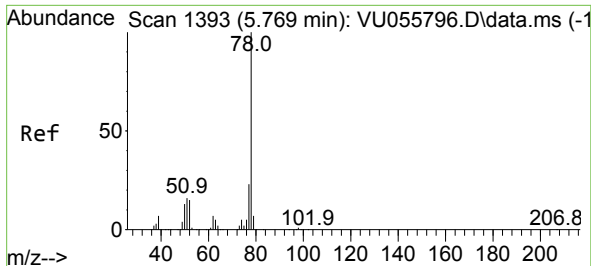
Ion Ratio Lower Upper

117 100

119 102.2 77.4 116.0

121 33.1 24.0 36.0

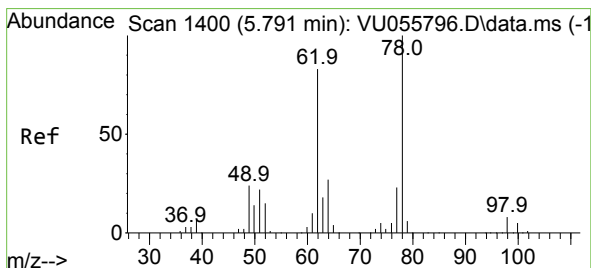
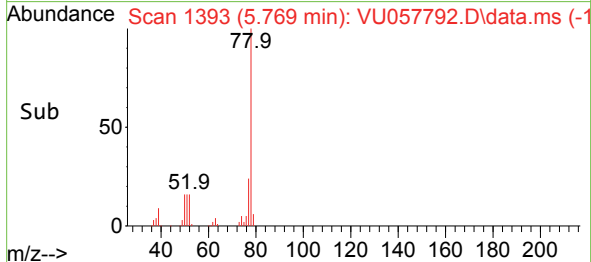
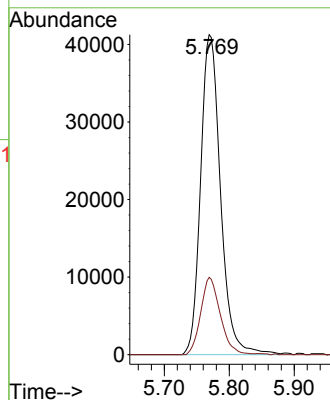
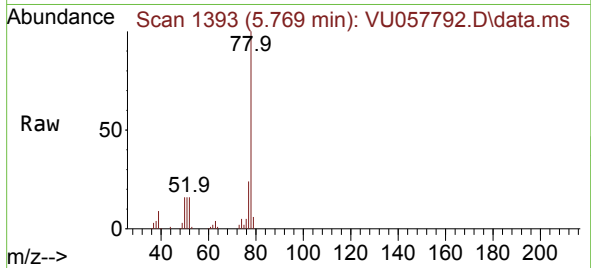




#35
Benzene
Concen: 1.894 ug/l
RT: 5.769 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU057792.D
Acq: 02 Feb 2024 13:52

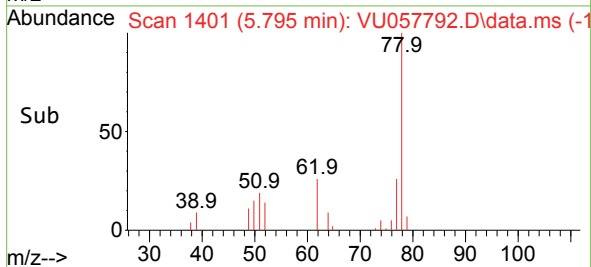
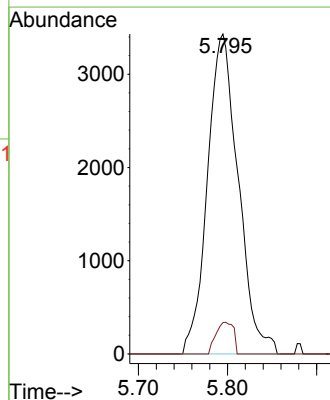
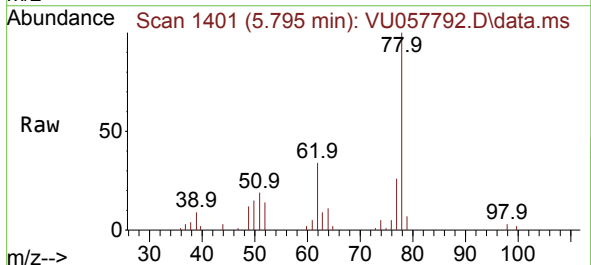
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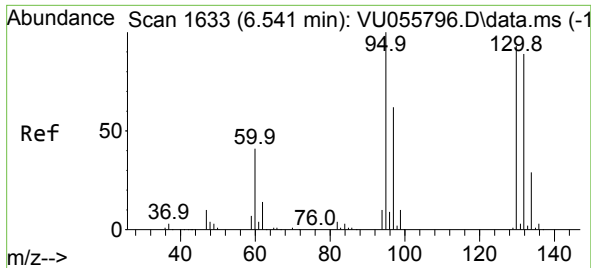
Tgt Ion: 78 Resp: 88134
Ion Ratio Lower Upper
78 100
77 24.2 18.9 28.3



#36
1,2-Dichloroethane
Concen: 0.608 ug/l
RT: 5.795 min Scan# 1401
Delta R.T. 0.004 min
Lab File: VU057792.D
Acq: 02 Feb 2024 13:52

Tgt Ion: 62 Resp: 8247
Ion Ratio Lower Upper
62 100
98 5.7 7.3 10.9#

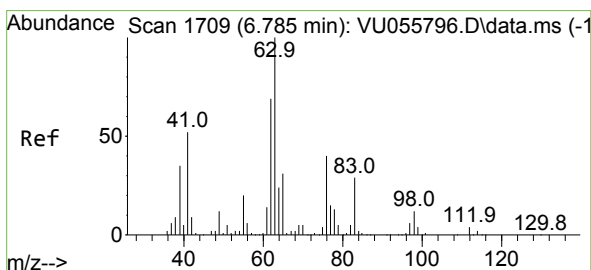
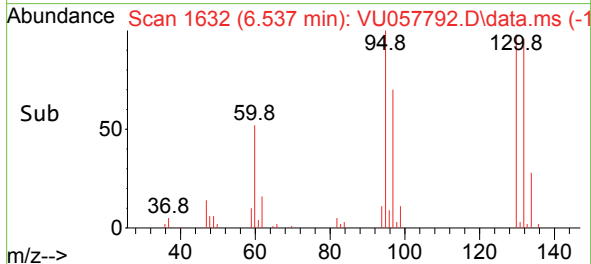
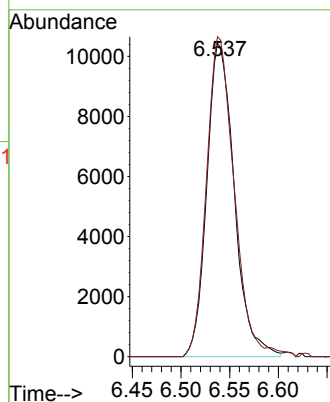
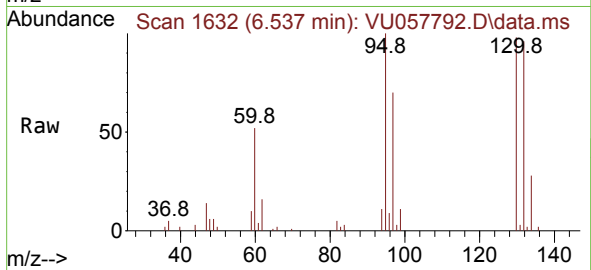




#37
Trichloroethene
Concen: 1.654 ug/l
RT: 6.537 min Scan# 1
Delta R.T. -0.004 min
Lab File: VU057792.D
Acq: 02 Feb 2024 13:52

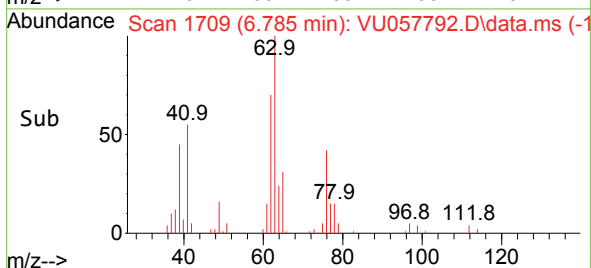
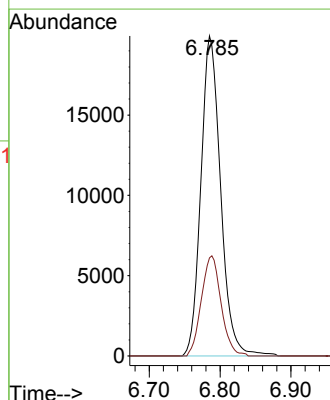
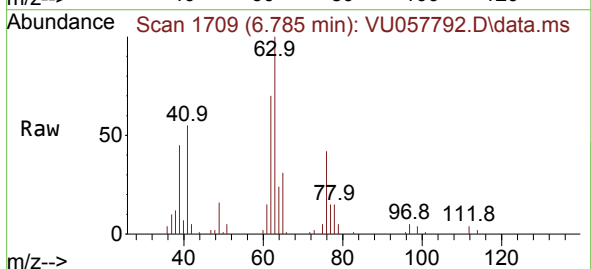
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL

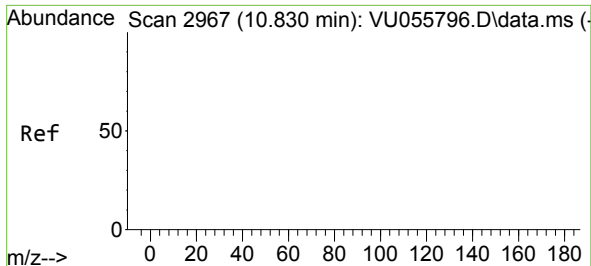
Tgt Ion:130 Resp: 20440
Ion Ratio Lower Upper
130 100
95 102.1 85.0 127.6



#38
1,2-Dichloropropane
Concen: 3.193 ug/l
RT: 6.785 min Scan# 1709
Delta R.T. 0.000 min
Lab File: VU057792.D
Acq: 02 Feb 2024 13:52

Tgt Ion: 63 Resp: 38529
Ion Ratio Lower Upper
63 100
65 30.7 24.9 37.3

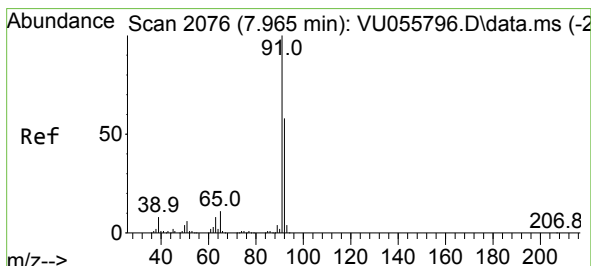
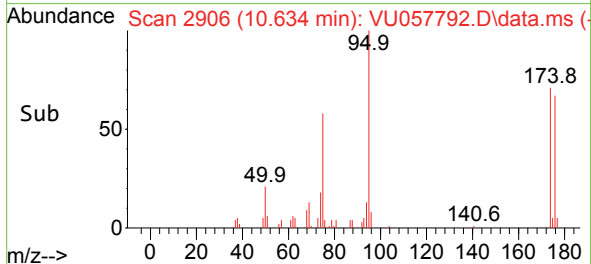
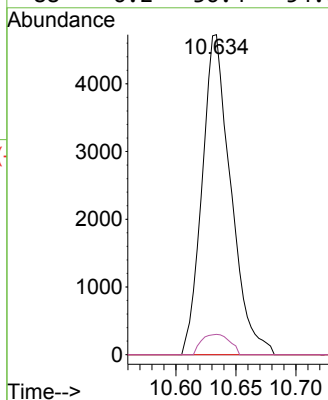
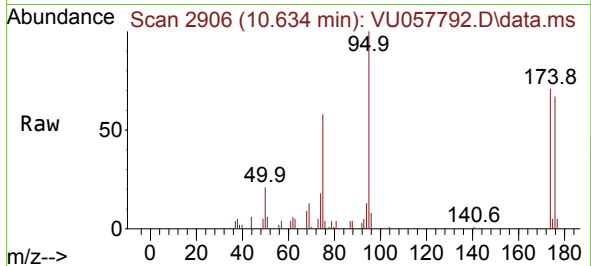




#46
t-1,4-Dichloro-2-butene
Concen: 5.478 ug/l
RT: 10.634 min Scan# 2967
Delta R.T. -0.196 min
Lab File: VU057792.D
Acq: 02 Feb 2024 13:52

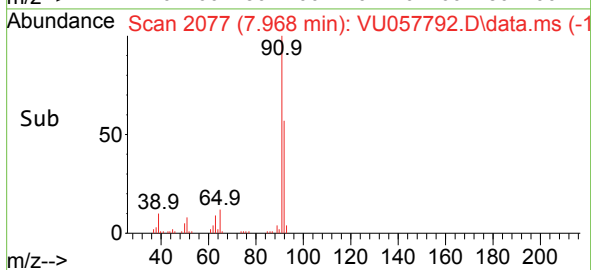
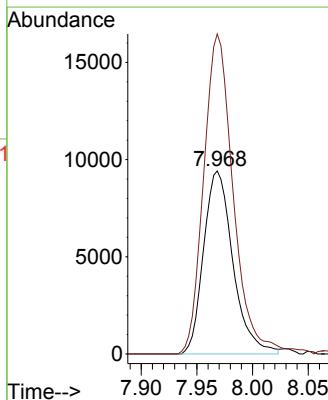
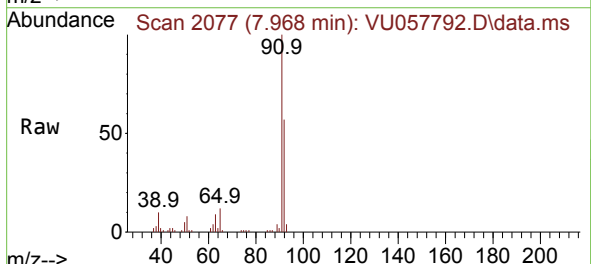
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL

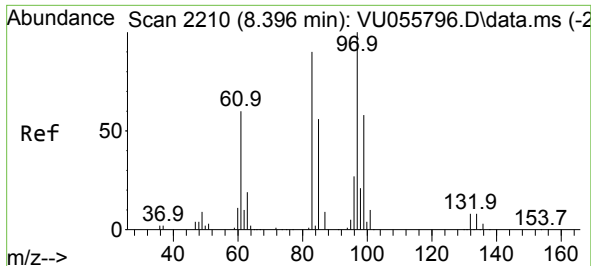
Tgt Ion:	75	Resp:	7879
Ion	Ratio	Lower	Upper
75	100		
53	0.0	73.3	109.9#
89	0.0	48.2	72.4#
88	6.2	36.4	54.6#



#49
Toluene
Concen: 0.608 ug/l
RT: 7.968 min Scan# 2077
Delta R.T. 0.003 min
Lab File: VU057792.D
Acq: 02 Feb 2024 13:52

Tgt Ion:	92	Resp:	17272
Ion	Ratio	Lower	Upper
92	100		
91	176.9	143.0	214.6



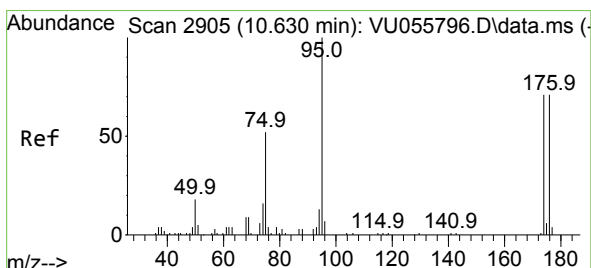
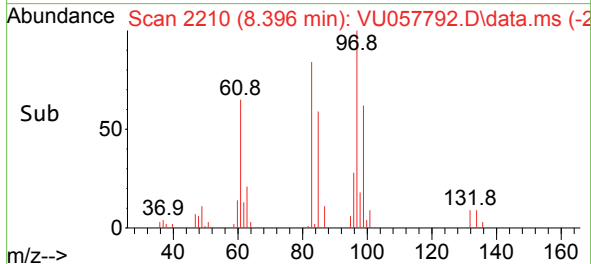
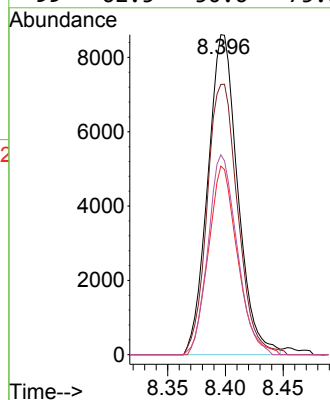
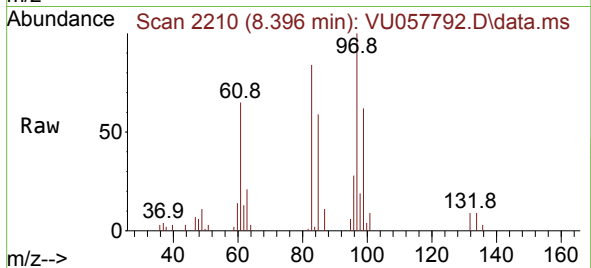


#52
1,1,2-Trichloroethane
Concen: 2.033 ug/l
RT: 8.396 min Scan# 211
Delta R.T. -0.000 min
Lab File: VU057792.D
Acq: 02 Feb 2024 13:52

Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL

Tgt Ion: 97 Resp: 15546

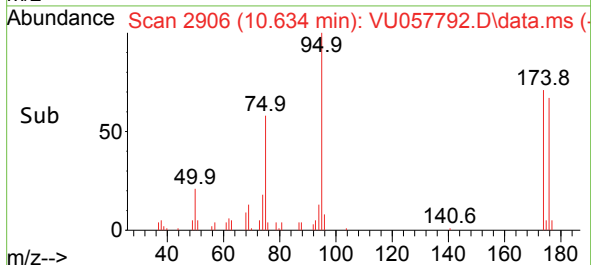
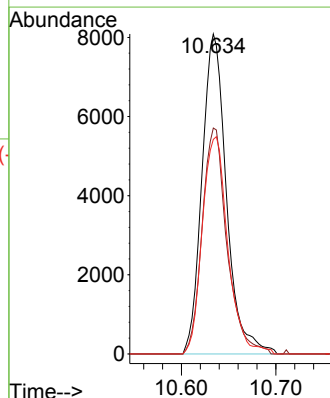
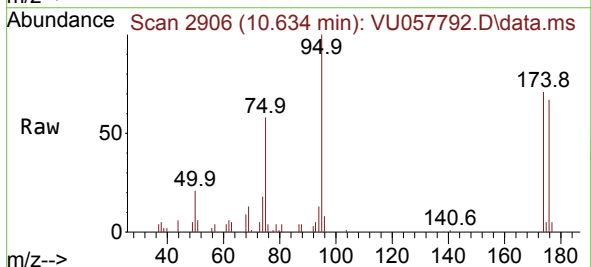
Ion	Ratio	Lower	Upper
97	100		
83	84.5	71.8	107.8
85	58.9	45.2	67.8
99	62.5	50.6	75.8

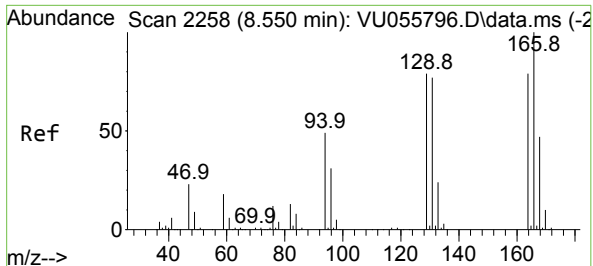


#57
4-Bromofluorobenzene
Concen: 0.925 ug/l
RT: 10.634 min Scan# 2906
Delta R.T. 0.004 min
Lab File: VU057792.D
Acq: 02 Feb 2024 13:52

Tgt Ion: 95 Resp: 14552

Ion	Ratio	Lower	Upper
95	100		
174	71.6	63.3	94.9
176	71.0	59.3	88.9

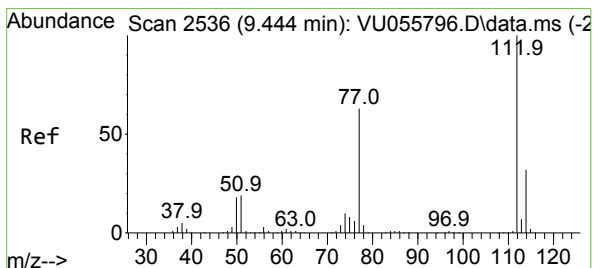
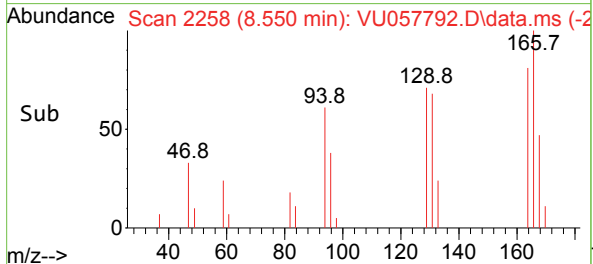
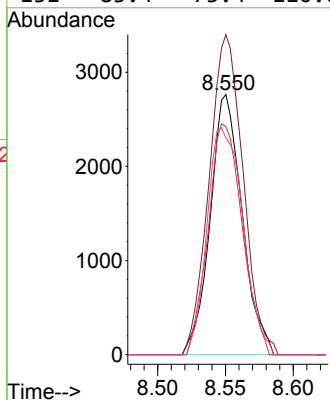
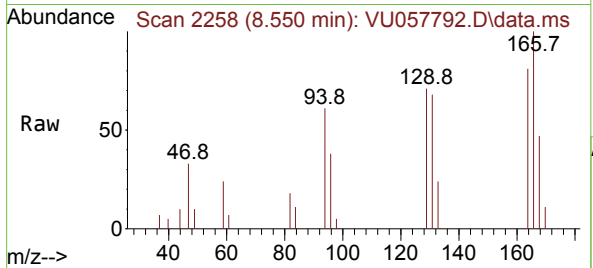




#58
Tetrachloroethene
Concen: 0.415 ug/l
RT: 8.550 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU057792.D
Acq: 02 Feb 2024 13:52

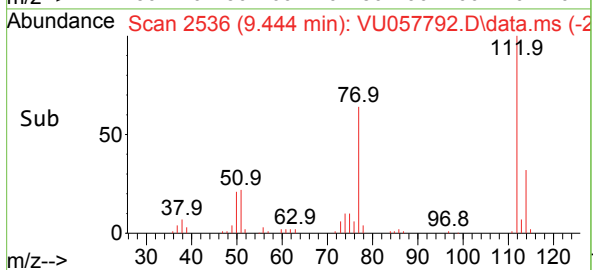
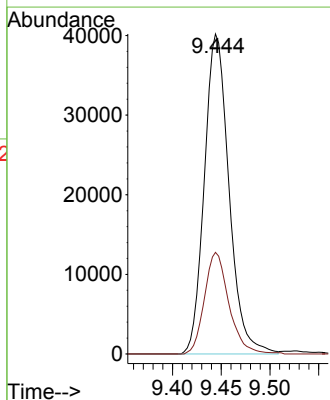
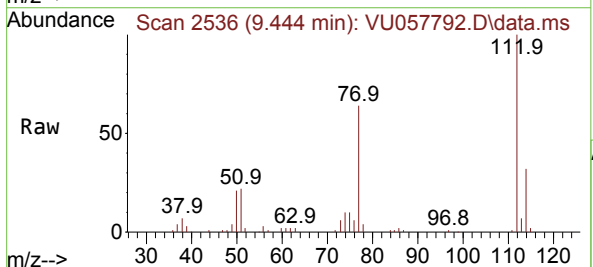
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL

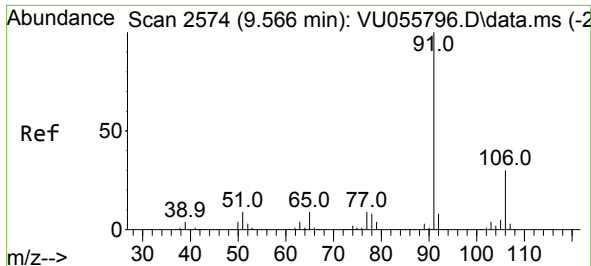
Tgt Ion:164 Resp: 4521
Ion Ratio Lower Upper
164 100
166 123.0 99.6 149.4
129 87.7 78.6 117.8
131 83.4 73.4 110.0



#59
Chlorobenzene
Concen: 2.254 ug/l
RT: 9.444 min Scan# 2536
Delta R.T. 0.000 min
Lab File: VU057792.D
Acq: 02 Feb 2024 13:52

Tgt Ion:112 Resp: 70840
Ion Ratio Lower Upper
112 100
114 31.8 25.6 38.4

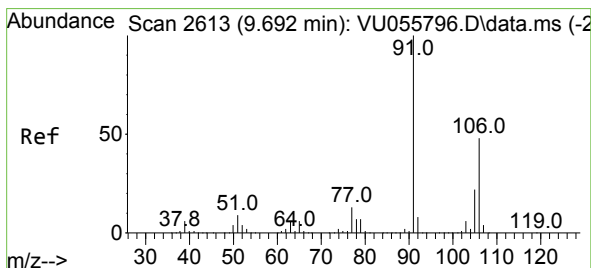
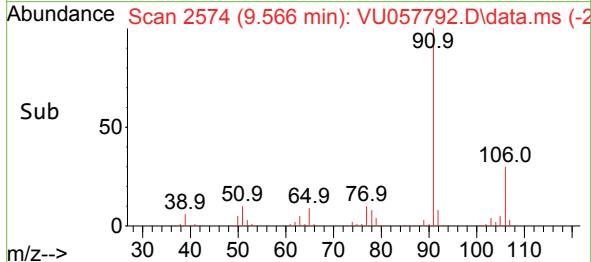
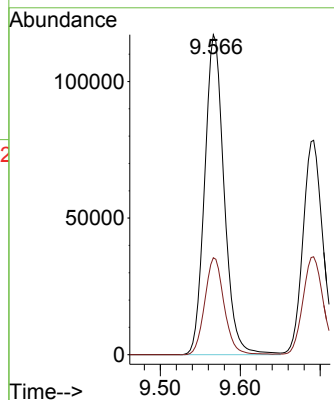
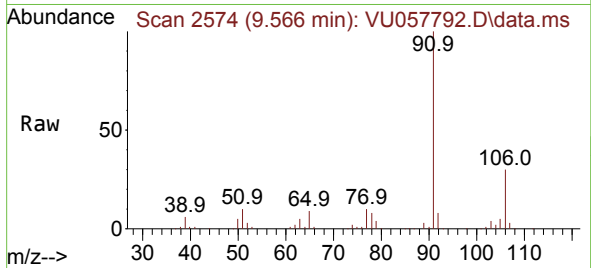




#63
Ethyl Benzene
Concen: 3.548 ug/l
RT: 9.566 min Scan# 2574
Delta R.T. 0.000 min
Lab File: VU057792.D
Acq: 02 Feb 2024 13:52

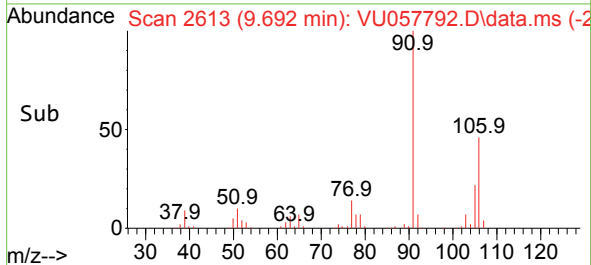
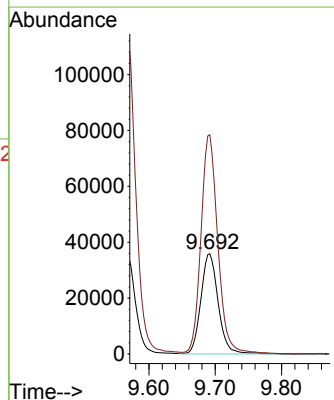
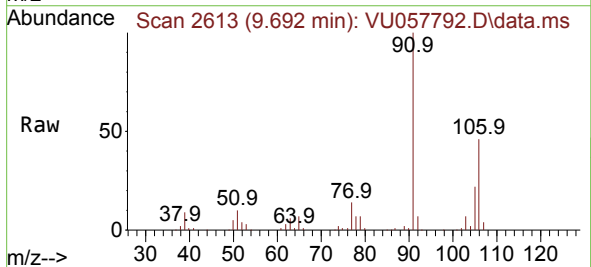
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL

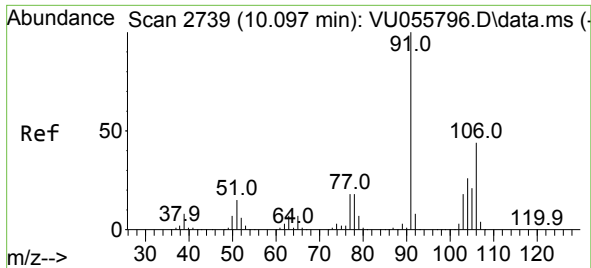
Tgt Ion: 91 Resp: 198306
Ion Ratio Lower Upper
91 100
106 30.3 24.2 36.2



#64
m/p-Xylenes
Concen: 3.199 ug/l
RT: 9.692 min Scan# 2613
Delta R.T. -0.000 min
Lab File: VU057792.D
Acq: 02 Feb 2024 13:52

Tgt Ion:106 Resp: 64937
Ion Ratio Lower Upper
106 100
91 214.2 167.3 250.9

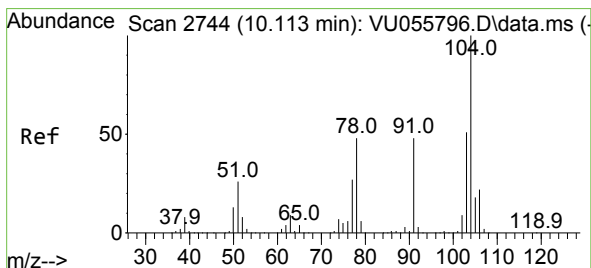
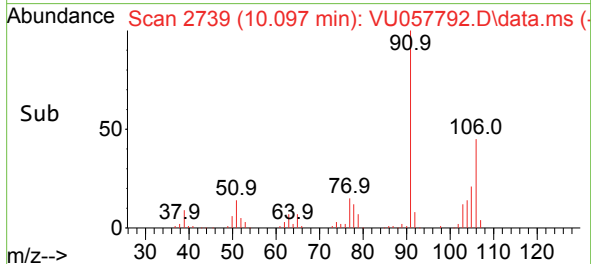
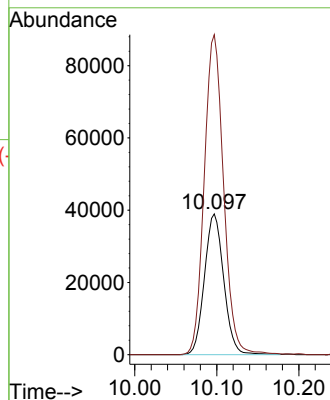
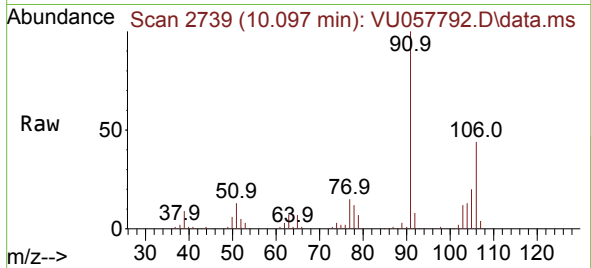




#65
o-Xylene
Concen: 3.169 ug/l
RT: 10.097 min Scan# 2739
Delta R.T. -0.000 min
Lab File: VU057792.D
Acq: 02 Feb 2024 13:52

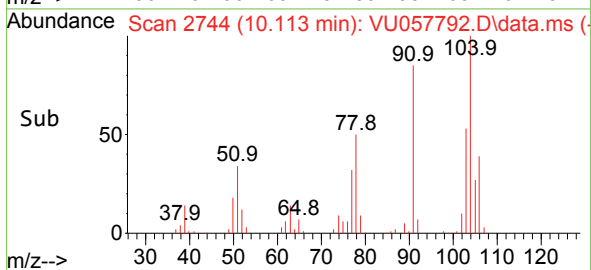
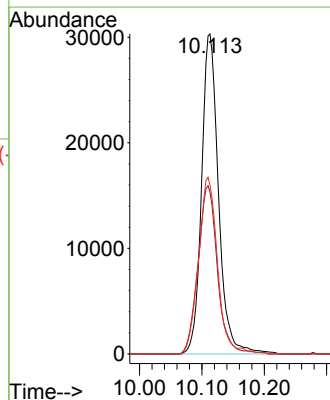
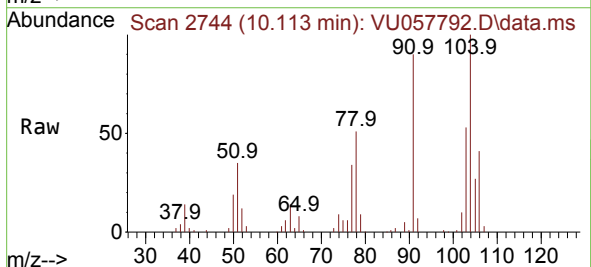
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL

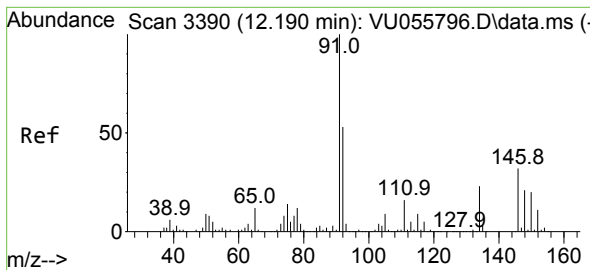
Tgt Ion:106 Resp: 63679
Ion Ratio Lower Upper
106 100
91 228.4 109.3 327.9



#66
Styrene
Concen: 1.911 ug/l
RT: 10.113 min Scan# 2744
Delta R.T. -0.000 min
Lab File: VU057792.D
Acq: 02 Feb 2024 13:52

Tgt Ion:104 Resp: 57305
Ion Ratio Lower Upper
104 100
78 60.1 39.7 59.5#
103 61.8 44.8 67.2





#68

1,2-Dichlorobenzene-d4

Concen: 0.932 ug/l

RT: 12.190 min Scan# 31

Delta R.T. -0.000 min

Lab File: VU057792.D

Acq: 02 Feb 2024 13:52

Instrument :

MSVOA_U

ClientSampleId :

PT-RVOA-WSDL

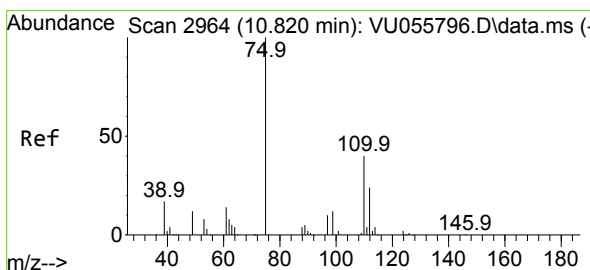
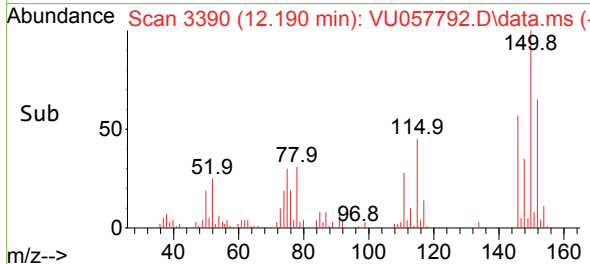
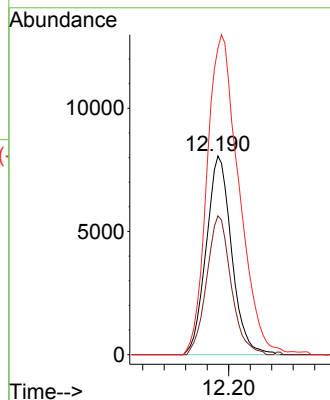
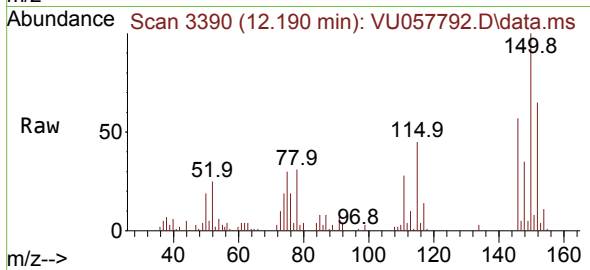
Tgt Ion:152 Resp: 13206

Ion Ratio Lower Upper

152 100

115 67.4 0.0 308.8

150 202.8 0.0 635.0



#71

1,2,3-Trichloropropane

Concen: 0.996 ug/l

RT: 10.634 min Scan# 2906

Delta R.T. -0.186 min

Lab File: VU057792.D

Acq: 02 Feb 2024 13:52

Tgt Ion: 75 Resp: 7879

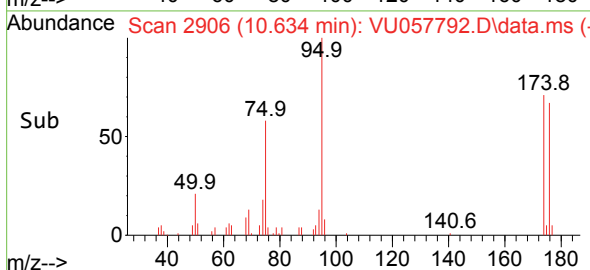
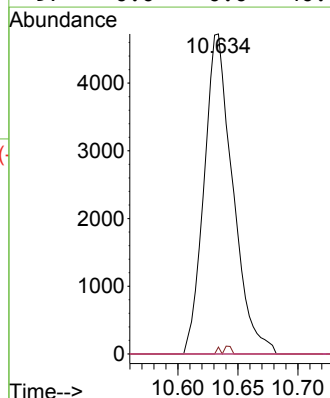
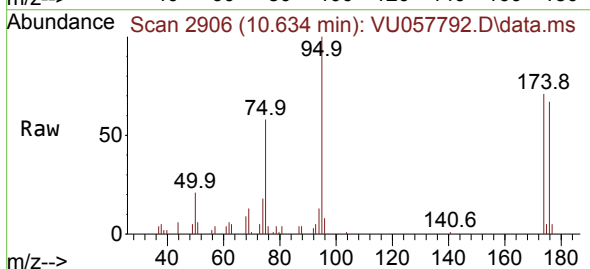
Ion Ratio Lower Upper

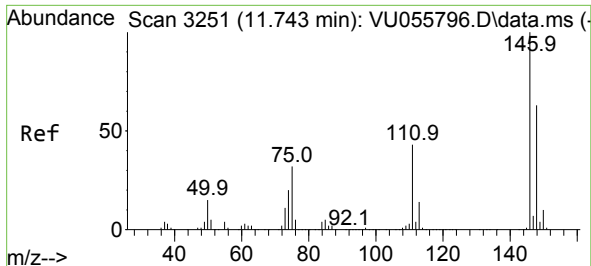
75 100

77 0.8 0.0 116.4

110 0.0 0.0 74.6

97 0.0 0.0 40.0





#82

1,3-Dichlorobenzene

Concen: 0.599 ug/l

RT: 11.836 min Scan# 31

Delta R.T. 0.093 min

Lab File: VU057792.D

Acq: 02 Feb 2024 13:52

Instrument :

MSVOA_U

ClientSampleId :

PT-RVOA-WSDL

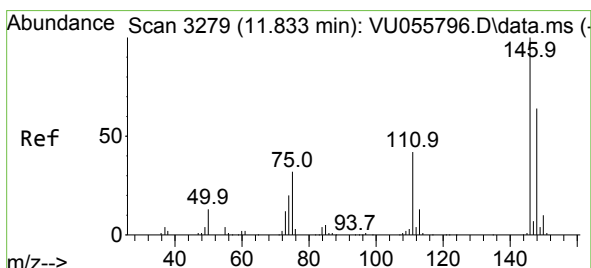
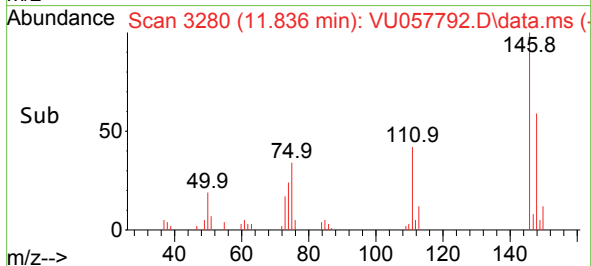
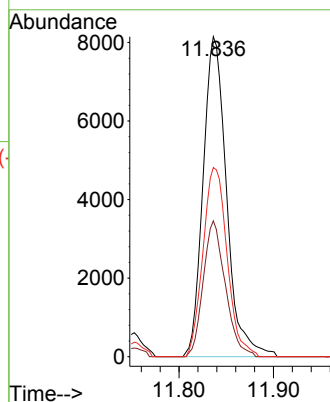
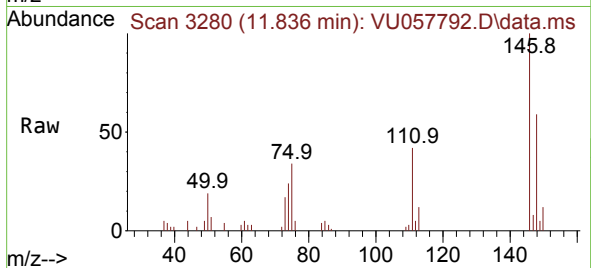
Tgt Ion:146 Resp: 14046

Ion Ratio Lower Upper

146 100

111 39.9 32.6 49.0

148 60.9 51.0 76.4



#83

1,4-Dichlorobenzene

Concen: 0.614 ug/l

RT: 11.836 min Scan# 3280

Delta R.T. 0.003 min

Lab File: VU057792.D

Acq: 02 Feb 2024 13:52

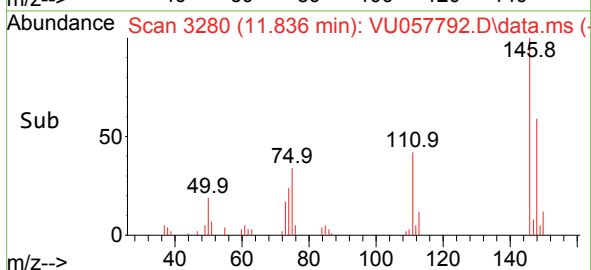
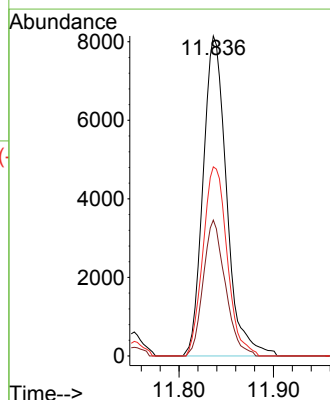
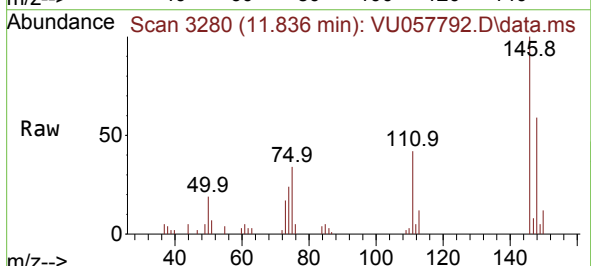
Tgt Ion:146 Resp: 14046

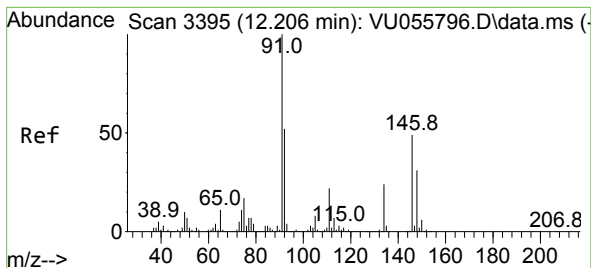
Ion Ratio Lower Upper

146 100

111 39.9 31.6 47.4

148 60.9 50.3 75.5





#84

n-Butylbenzene

Concen: 0.211 ug/l

RT: 12.209 min Scan# 3396

Delta R.T. 0.003 min

Lab File: VU057792.D

Acq: 02 Feb 2024 13:52

Instrument :

MSVOA_U

ClientSampleId :

PT-RVOA-WSDL

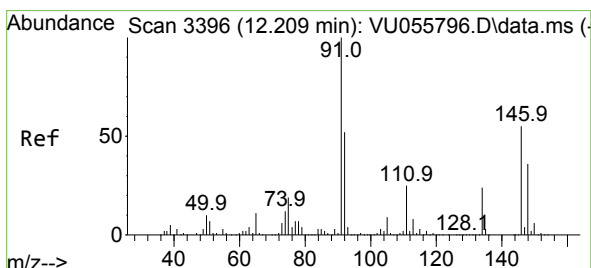
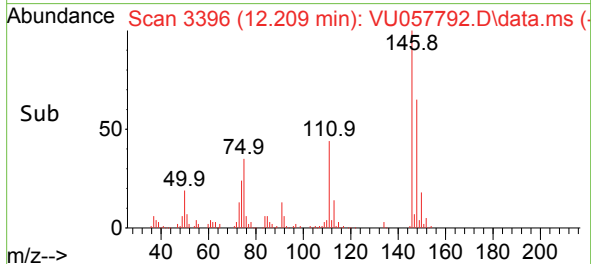
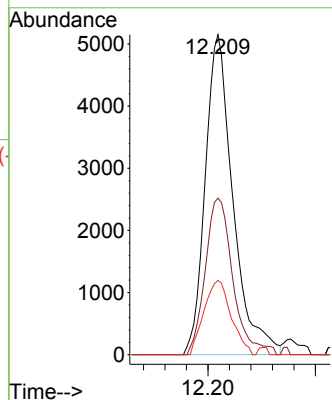
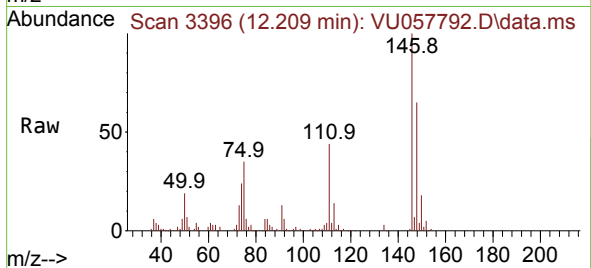
Tgt Ion: 91 Resp: 9216

Ion Ratio Lower Upper

91 100

92 48.7 40.8 61.2

134 22.7 18.4 27.6



#85

1,2-Dichlorobenzene

Concen: 3.052 ug/l

RT: 12.209 min Scan# 3396

Delta R.T. 0.000 min

Lab File: VU057792.D

Acq: 02 Feb 2024 13:52

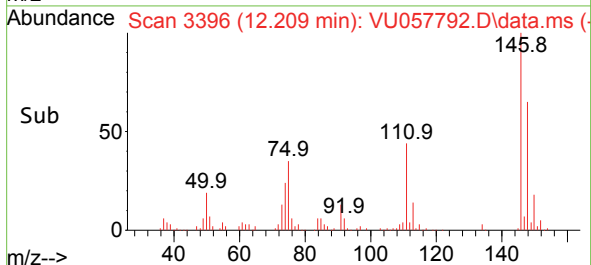
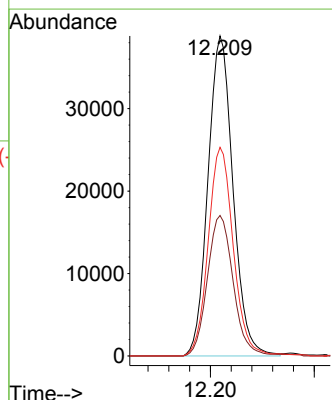
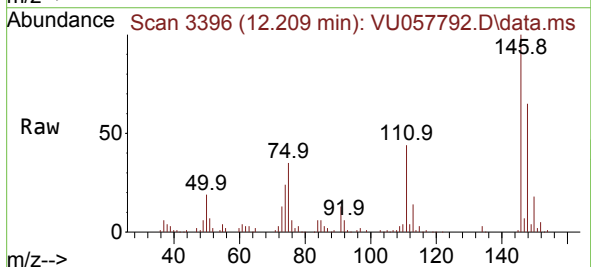
Tgt Ion: 146 Resp: 64906

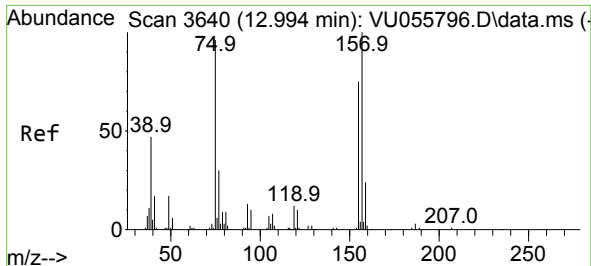
Ion Ratio Lower Upper

146 100

111 45.3 21.6 64.6

148 65.8 32.1 96.5

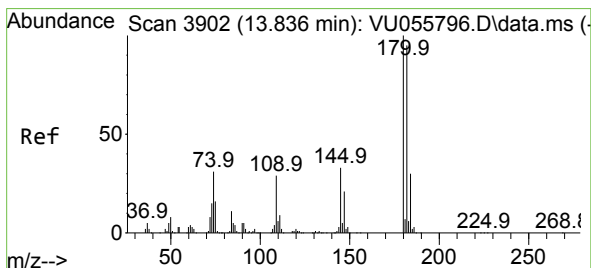
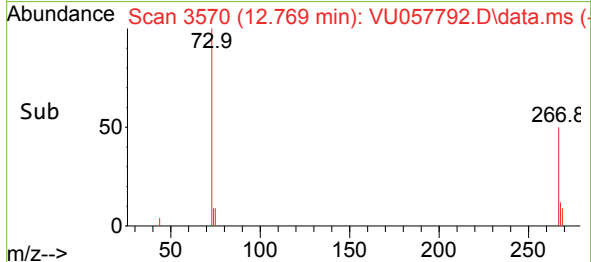
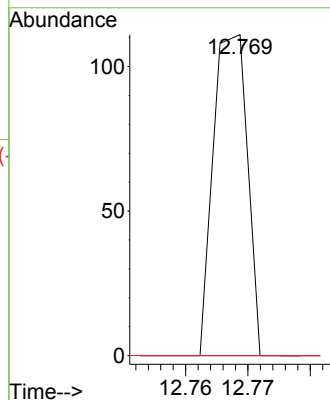
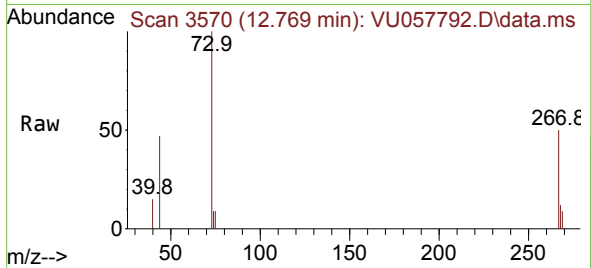




#86
 1,2-Dibromo-3-Chloropropane
 Concen: 0.401 ug/l
 RT: 12.769 min Scan# 31
 Delta R.T. -0.225 min
 Lab File: VU057792.D
 Acq: 02 Feb 2024 13:52

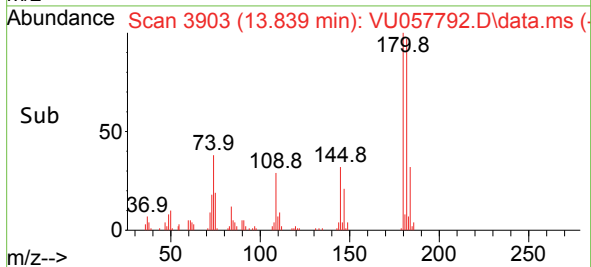
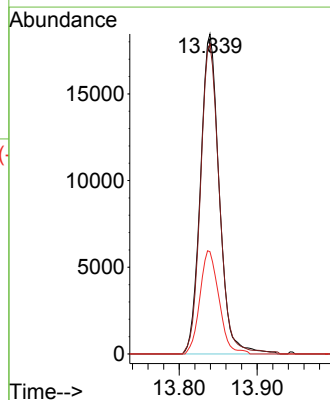
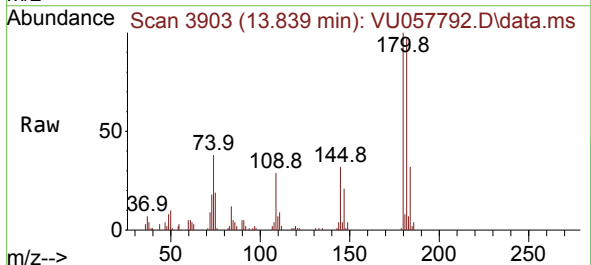
Instrument :
 MSVOA_U
 ClientSampleId :
 PT-RVOA-WSDL

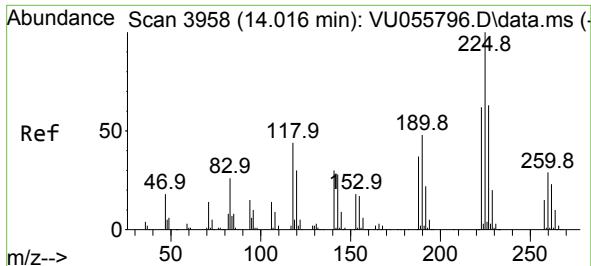
Tgt Ion: 75 Resp: 42
 Ion Ratio Lower Upper
 75 100
 155 0.0 61.8 92.8#
 157 0.0 80.2 120.4#



#87
 1,2,4-Trichlorobenzene
 Concen: 2.432 ug/l
 RT: 13.839 min Scan# 3903
 Delta R.T. 0.003 min
 Lab File: VU057792.D
 Acq: 02 Feb 2024 13:52

Tgt Ion:180 Resp: 30897
 Ion Ratio Lower Upper
 180 100
 182 97.1 75.8 113.6
 145 32.7 23.9 35.9

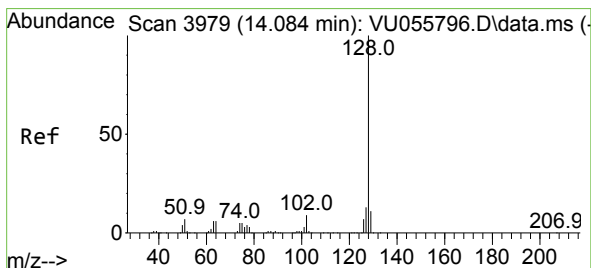
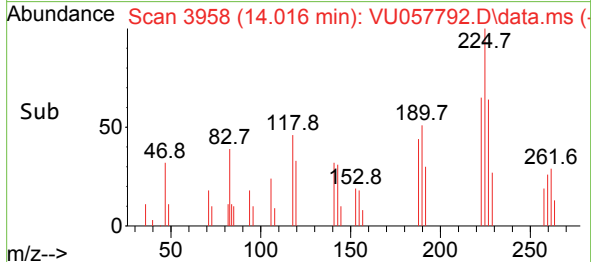
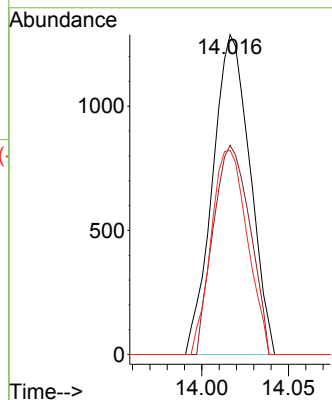
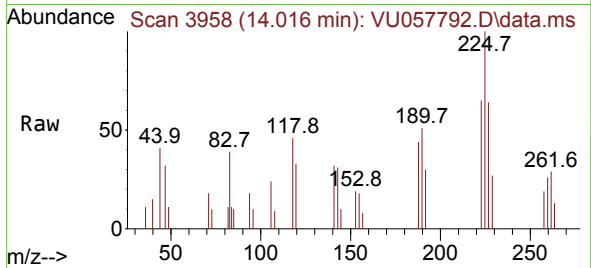




#88
Hexachlorobutadiene
Concen: 0.237 ug/l
RT: 14.016 min Scan# 3958
Delta R.T. 0.000 min
Lab File: VU057792.D
Acq: 02 Feb 2024 13:52

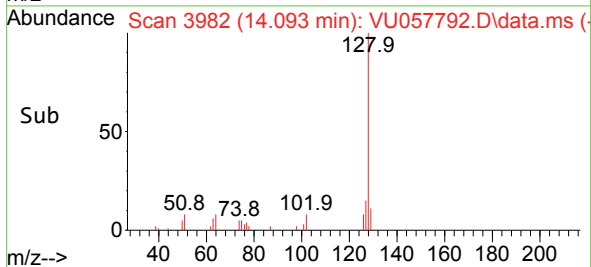
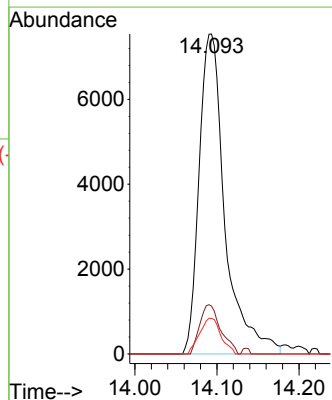
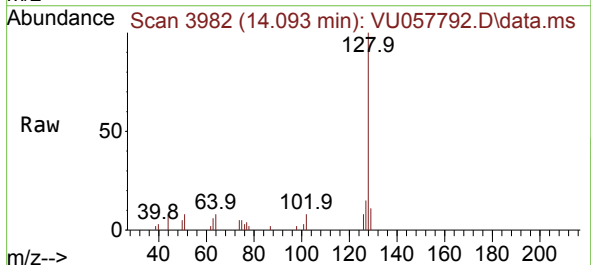
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL

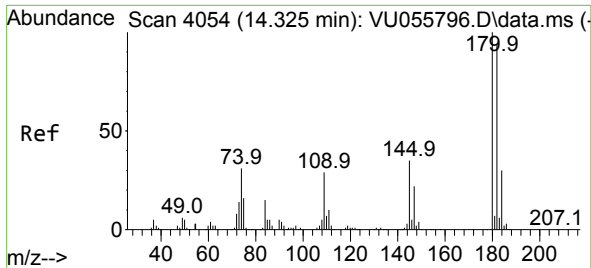
Tgt Ion:225 Resp: 1929
Ion Ratio Lower Upper
225 100
223 64.4 50.2 75.4
227 61.8 51.5 77.3



#89
Naphthalene
Concen: 0.841 ug/l
RT: 14.093 min Scan# 3982
Delta R.T. 0.009 min
Lab File: VU057792.D
Acq: 02 Feb 2024 13:52

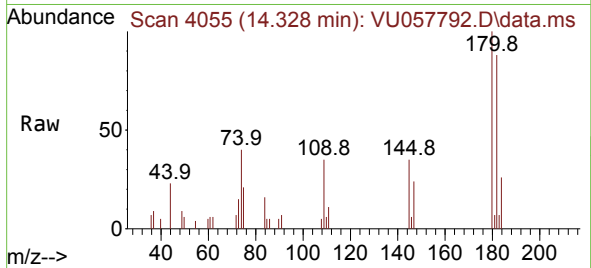
Tgt Ion:128 Resp: 16500
Ion Ratio Lower Upper
128 100
127 12.5 10.9 16.3
129 9.2 8.6 12.8





#90
 1,2,3-Trichlorobenzene
 Concen: 0.436 ug/l
 RT: 14.328 min Scan# 4055
 Delta R.T. 0.003 min
 Lab File: VU057792.D
 Acq: 02 Feb 2024 13:52

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-RVOA-WSDL



Tgt Ion:	180	Resp:	4612
Ion Ratio	Lower	Upper	
180	100		
182	97.8	75.7	113.5
145	34.4	26.1	39.1

