

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU020123\
 Data File : VU052910.D
 Acq On : 01 Feb 2023 17:06
 Operator : JC/MD
 Sample : 01381-17
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 A44Q5

Quant Time: Feb 01 20:06:40 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM012623WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Feb 01 20:03:09 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.243	114	243285	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.414	117	238378	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.809	152	129709	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.600	65	75578	43.161	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	86.320%
7) Chloroethane-d5	1.906	69	73485	50.931	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	101.860%
11) 1,1-Dichloroethene-d2	2.562	63	117473	33.730	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	67.460%
21) 2-Butanone-d5	4.623	46	86237	79.722	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	79.720%
24) Chloroform-d	5.057	84	173289	46.370	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.740%
26) 1,2-Dichloroethane-d4	5.693	65	114547	48.004	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.000%
32) Benzene-d6	5.722	84	330368	45.362	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.720%
36) 1,2-Dichloropropane-d6	6.684	67	99970	46.803	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	93.600%
41) Toluene-d8	7.893	98	288431	43.493	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	86.980%
43) trans-1,3-Dichloroprop...	8.176	79	46710	43.631	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	87.260%
47) 2-Hexanone-d5	8.639	63	61793	82.335	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	82.330%
56) 1,1,2,2-Tetrachloroeth...	10.754	84	138047	43.744	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	87.480%
66) 1,2-Dichlorobenzene-d4	11.905	152	93	0.037	ug/L	-0.28
Spiked Amount	50.000	Range	80 - 120	Recovery	=	0.080%#

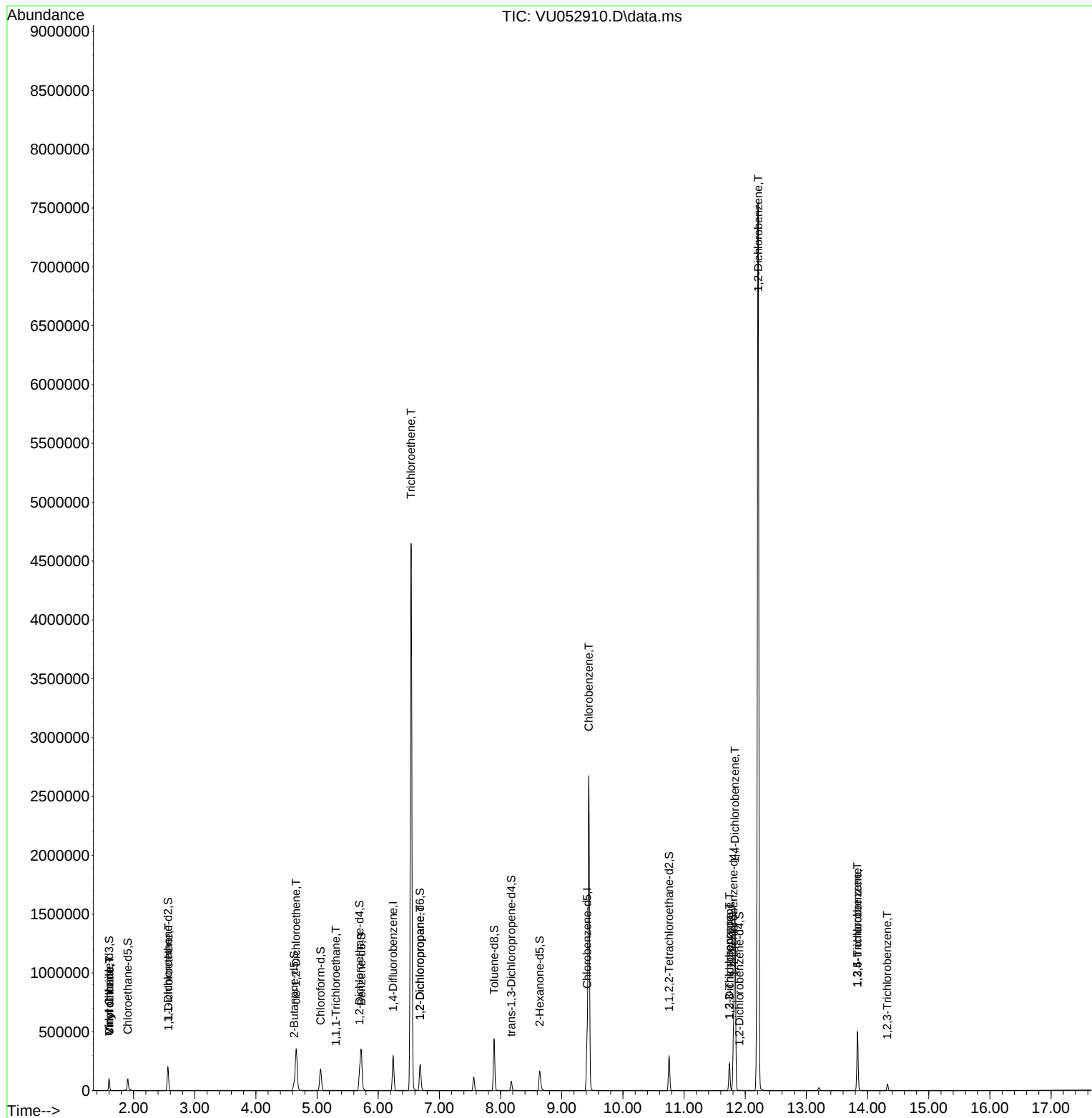
Target Compounds					Qvalue
5) Vinyl chloride	1.604	62	4159	2.001 ug/L	# 61
8) Chloroethane	1.604	64	2074	1.589 ug/L	# 22
12) 1,1-Dichloroethene	2.571	96	3496	1.943 ug/L	# 1
20) cis-1,2-Dichloroethene	4.658	96	186210	89.673 ug/L	100
30) 1,1,1-Trichloroethane	5.308	97	2778	0.792 ug/L	# 65
34) Trichloroethene	6.536	95	1537310	745.379 ug/L	98
37) 1,2-Dichloropropane	6.684	63	11638	5.834 ug/L	# 85
51) Chlorobenzene	9.443	112	1436737	251.110 ug/L	99
60) 1,2,3-Trichloropropane	11.741	75	26799	10.651 ug/L	# 50
64) 1,3-Dichlorobenzene	11.741	146	94153	22.277 ug/L	99
65) 1,4-Dichlorobenzene	11.831	146	622630	142.299 ug/L	98
67) 1,2-Dichlorobenzene	12.211	146	3066222	717.240 ug/L	99
69) 1,3,5-Trichlorobenzene	13.835	180	158432	50.634 ug/L	99
70) 1,2,4-trichlorobenzene	13.835	180	158432	60.394 ug/L	98
72) 1,2,3-Trichlorobenzene	14.323	180	18853	6.800 ug/L	99

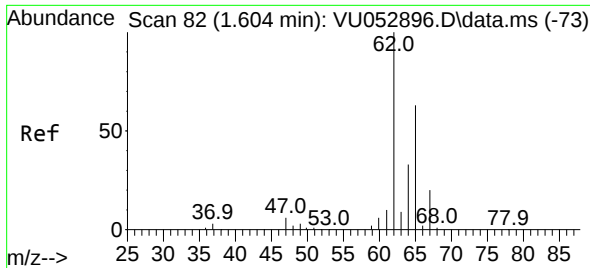
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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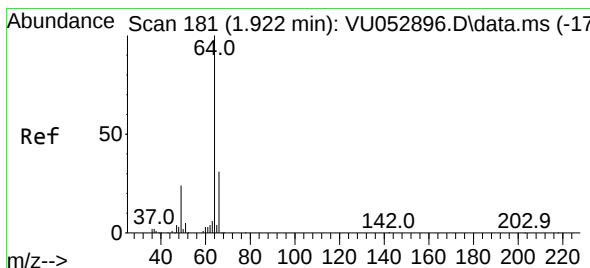
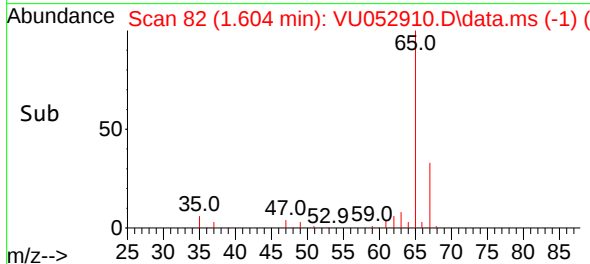
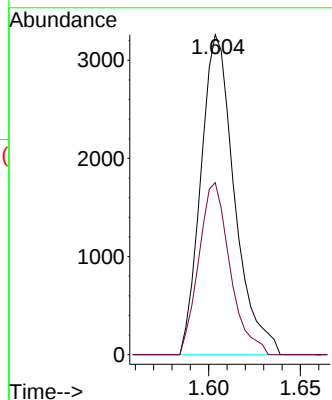
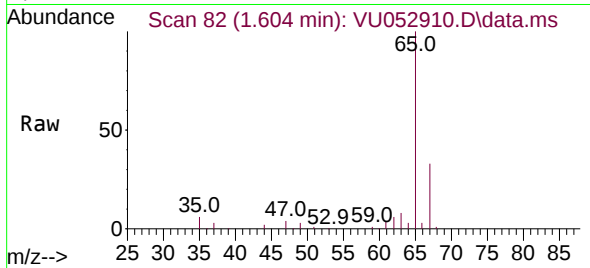




#5
 Vinyl chloride
 Concen: 2.001 ug/L
 RT: 1.604 min Scan# 82
 Delta R.T. -0.000 min
 Lab File: VU052910.D
 Acq: 01 Feb 2023 17:06

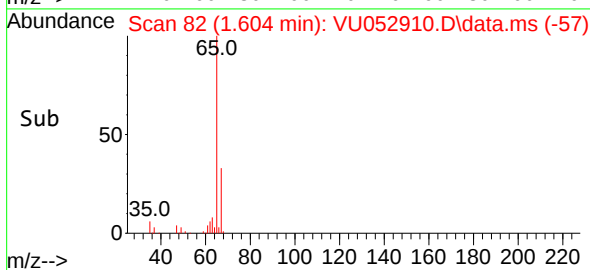
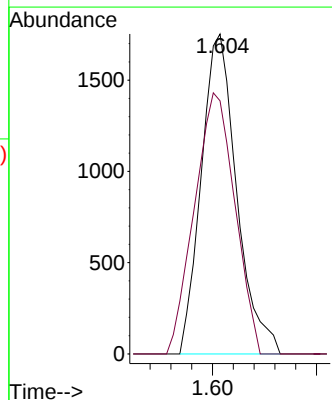
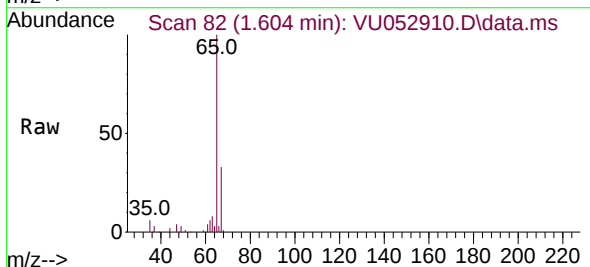
Instrument :
 MSVOA_U
 ClientSampleId :
 A44Q5

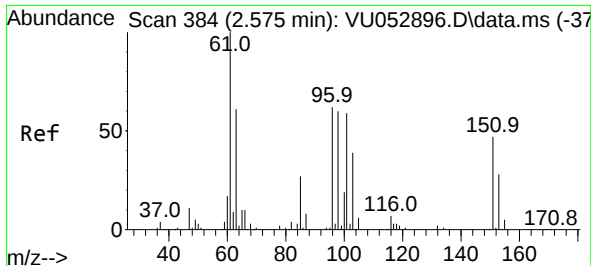
Tgt Ion: 62 Resp: 4159
 Ion Ratio Lower Upper
 62 100
 64 53.8 22.4 41.6#



#8
 Chloroethane
 Concen: 1.589 ug/L
 RT: 1.604 min Scan# 82
 Delta R.T. -0.318 min
 Lab File: VU052910.D
 Acq: 01 Feb 2023 17:06

Tgt Ion: 64 Resp: 2074
 Ion Ratio Lower Upper
 64 100
 66 79.1 24.1 44.7#





#12

1,1-Dichloroethene

Concen: 1.943 ug/L

RT: 2.571 min Scan# 384

Delta R.T. -0.003 min

Lab File: VU052910.D

Acq: 01 Feb 2023 17:06

Instrument :

MSVOA_U

ClientSampleId :

A44Q5

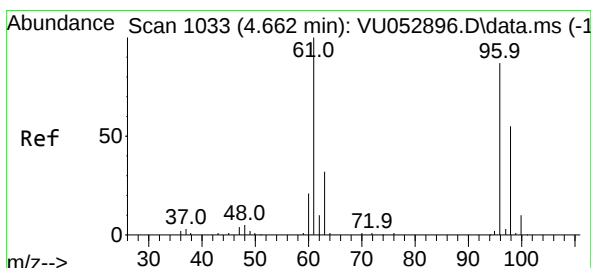
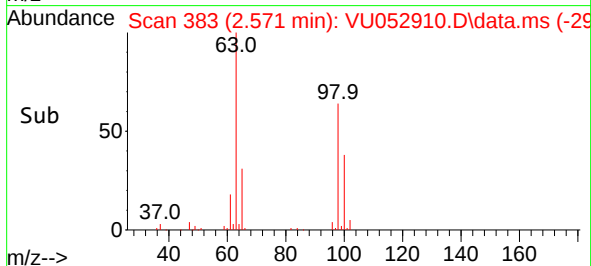
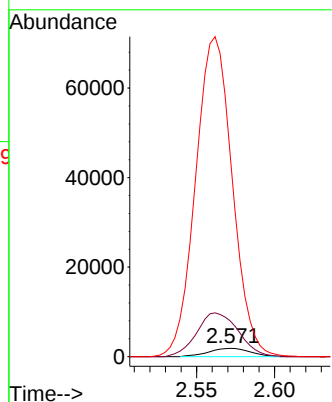
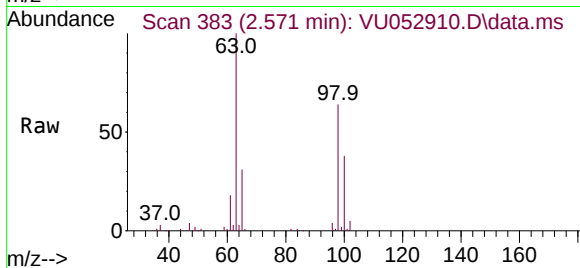
Tgt Ion: 96 Resp: 3496

Ion Ratio Lower Upper

96 100

61 431.5 114.3 212.3#

63 2453.3 80.6 149.6#



#20

cis-1,2-Dichloroethene

Concen: 89.673 ug/L

RT: 4.658 min Scan# 1032

Delta R.T. -0.003 min

Lab File: VU052910.D

Acq: 01 Feb 2023 17:06

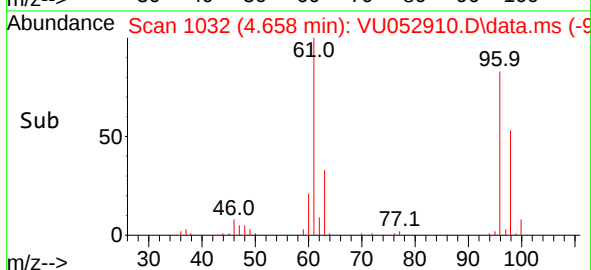
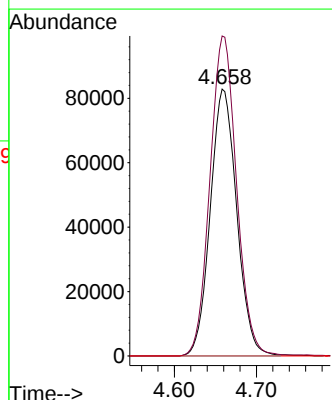
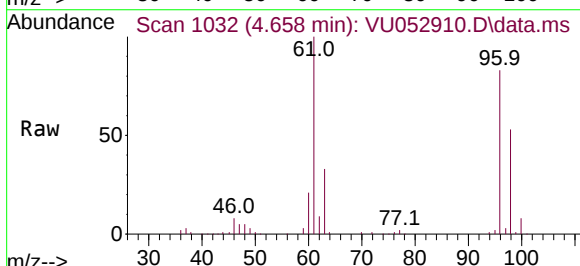
Tgt Ion: 96 Resp: 186210

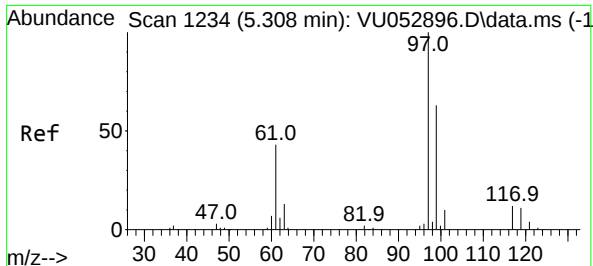
Ion Ratio Lower Upper

96 100

61 119.9 84.1 156.1

68 0.0 0.0 0.0





#30

1,1,1-Trichloroethane

Concen: 0.792 ug/L

RT: 5.308 min Scan# 11

Delta R.T. -0.000 min

Lab File: VU052910.D

Acq: 01 Feb 2023 17:06

Instrument :

MSVOA_U

ClientSampleId :

A44Q5

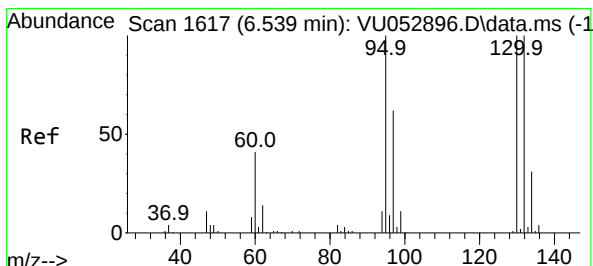
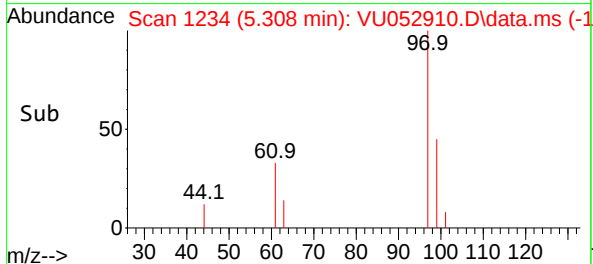
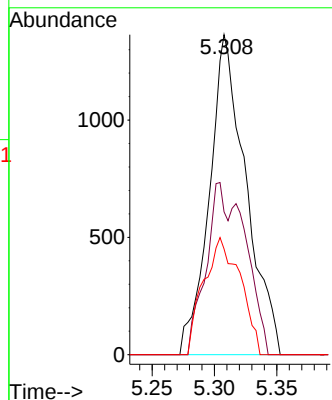
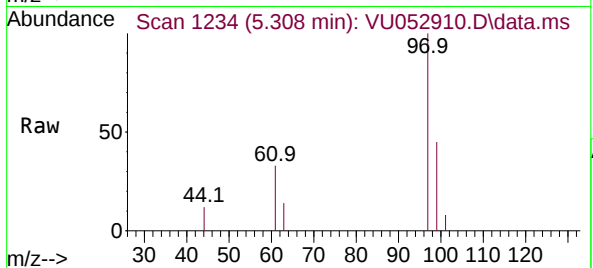
Tgt Ion: 97 Resp: 2778

Ion Ratio Lower Upper

97 100

99 31.4 51.4 77.0#

61 26.7 33.0 49.6#



#34

Trichloroethene

Concen: 745.379 ug/L

RT: 6.536 min Scan# 1616

Delta R.T. -0.003 min

Lab File: VU052910.D

Acq: 01 Feb 2023 17:06

Tgt Ion: 95 Resp: 1537310

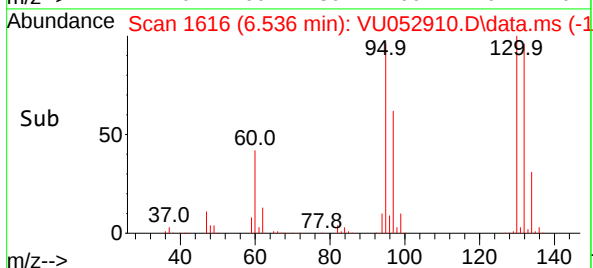
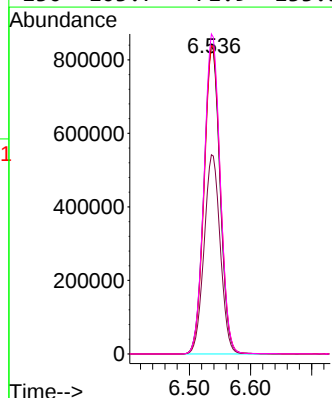
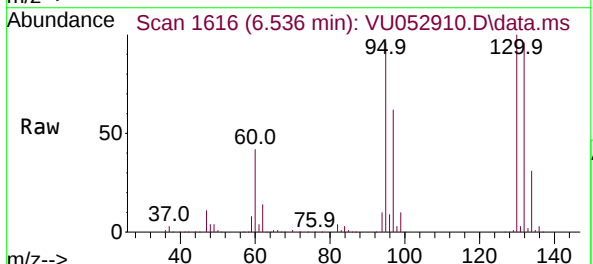
Ion Ratio Lower Upper

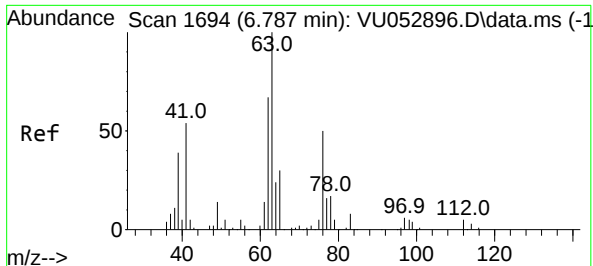
95 100

97 64.6 44.5 82.7

132 99.9 66.8 124.0

130 103.7 71.9 133.5

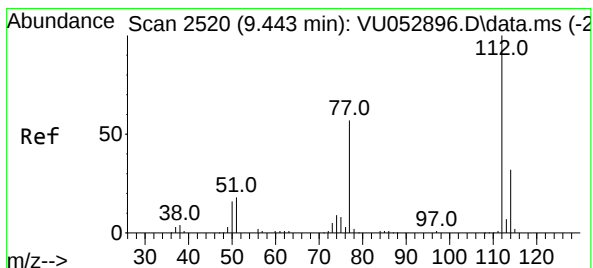
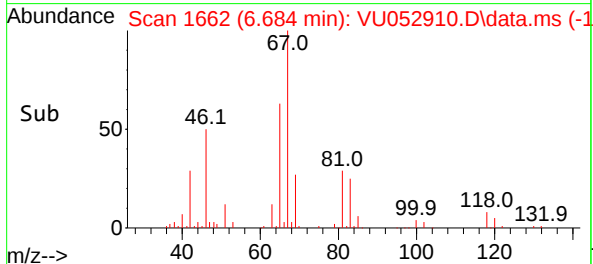
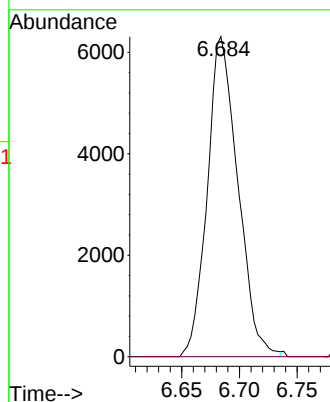
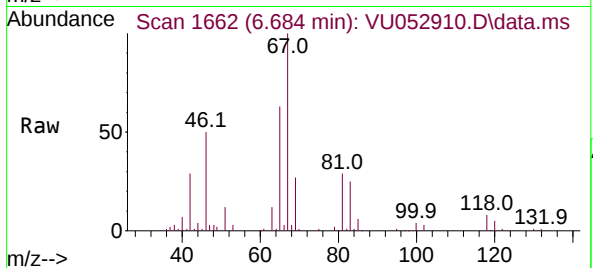




#37
1,2-Dichloropropane
Concen: 5.834 ug/L
RT: 6.684 min Scan# 1
Delta R.T. -0.103 min
Lab File: VU052910.D
Acq: 01 Feb 2023 17:06

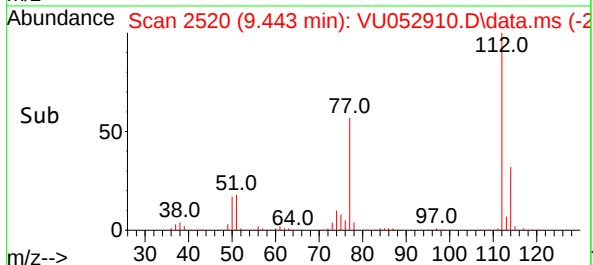
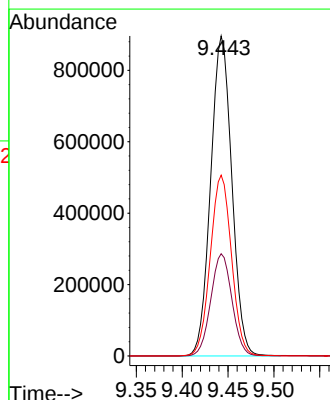
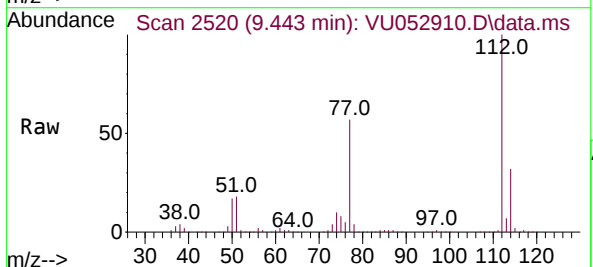
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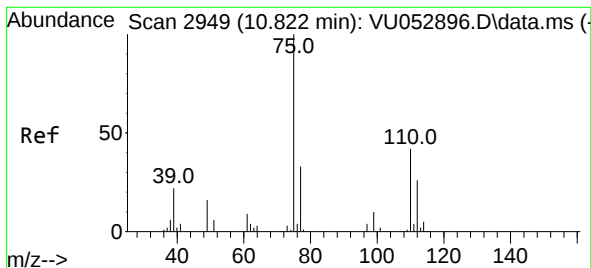
Tgt Ion: 63 Resp: 11638
Ion Ratio Lower Upper
63 100
112 0.0 3.8 5.8#



#51
Chlorobenzene
Concen: 251.110 ug/L
RT: 9.443 min Scan# 2520
Delta R.T. -0.000 min
Lab File: VU052910.D
Acq: 01 Feb 2023 17:06

Tgt Ion: 112 Resp: 1436737
Ion Ratio Lower Upper
112 100
114 32.0 22.8 42.4
77 56.5 45.9 68.9





#60

1,2,3-Trichloropropane

Concen: 10.651 ug/L

RT: 11.741 min Scan# 31

Delta R.T. 0.919 min

Lab File: VU052910.D

Acq: 01 Feb 2023 17:06

Instrument :

MSVOA_U

ClientSampleId :

A44Q5

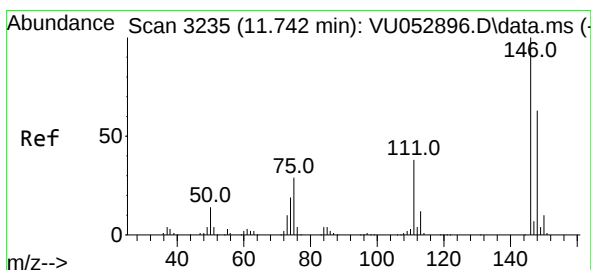
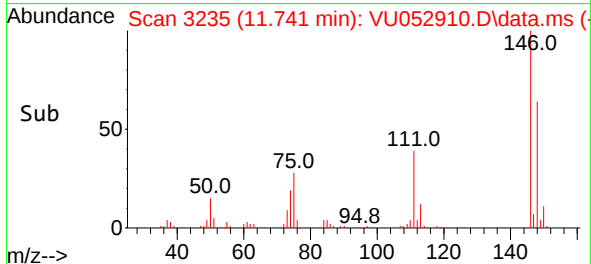
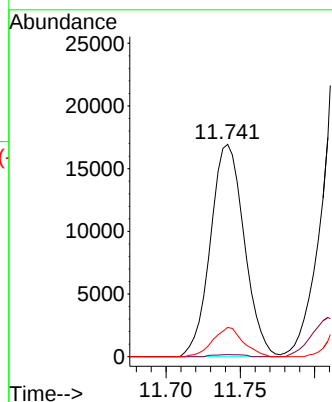
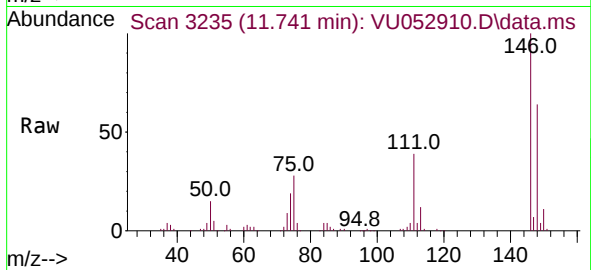
Tgt Ion: 75 Resp: 26799

Ion Ratio Lower Upper

75 100

77 0.9 25.8 38.8#

110 12.4 32.4 48.6#



#64

1,3-Dichlorobenzene

Concen: 22.277 ug/L

RT: 11.741 min Scan# 3235

Delta R.T. -0.000 min

Lab File: VU052910.D

Acq: 01 Feb 2023 17:06

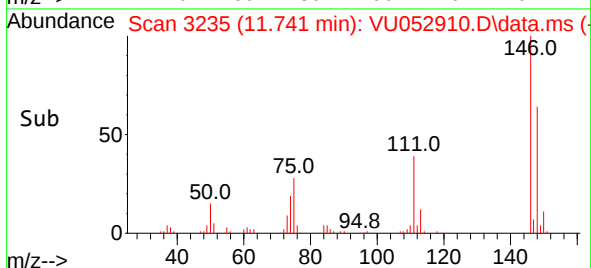
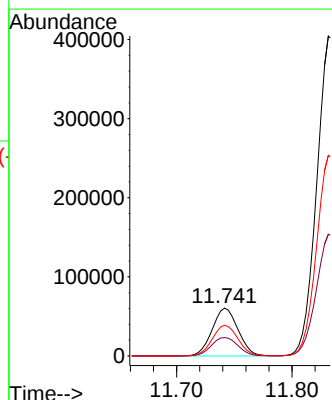
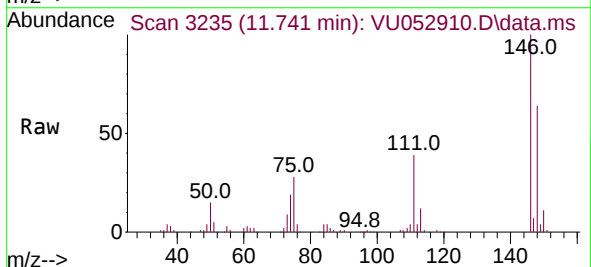
Tgt Ion:146 Resp: 94153

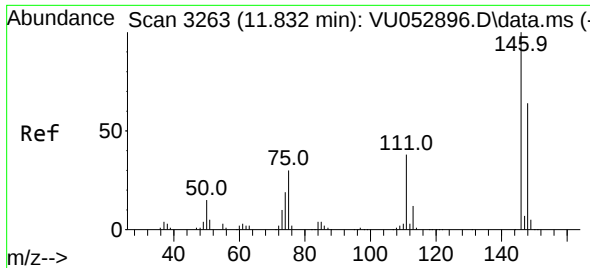
Ion Ratio Lower Upper

146 100

111 38.7 27.8 51.6

148 64.3 45.5 84.5

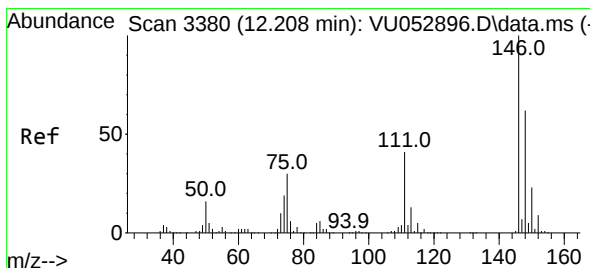
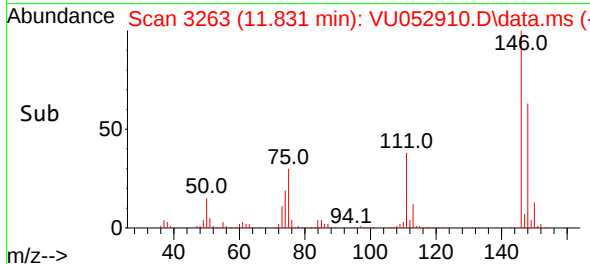
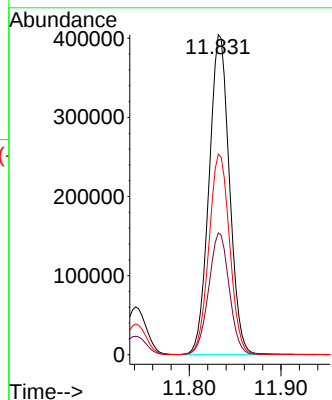
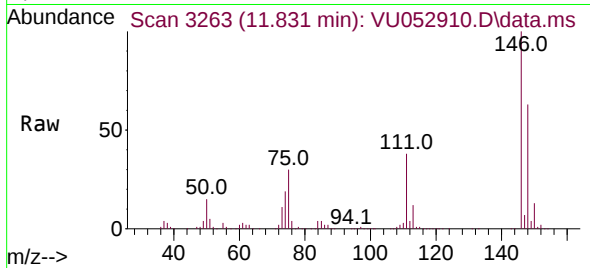




#65
1,4-Dichlorobenzene
Concen: 142.299 ug/L
RT: 11.831 min Scan# 31
Delta R.T. -0.000 min
Lab File: VU052910.D
Acq: 01 Feb 2023 17:06

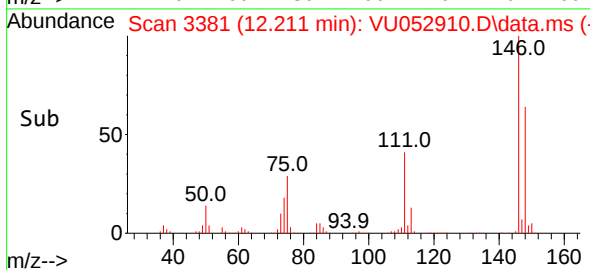
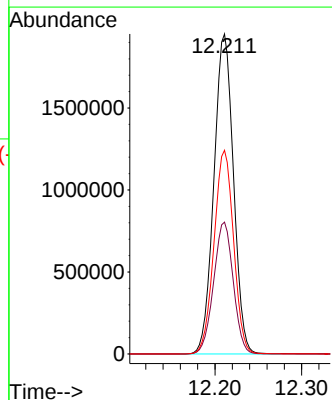
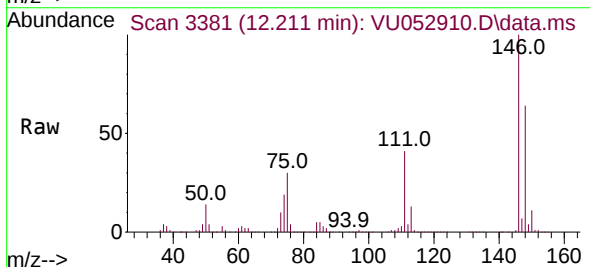
Instrument :
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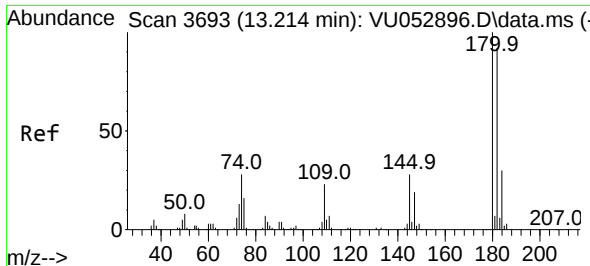
Tgt Ion:146 Resp: 622630
Ion Ratio Lower Upper
146 100
111 38.0 26.7 49.7
148 62.7 45.6 84.6



#67
1,2-Dichlorobenzene
Concen: 717.240 ug/L
RT: 12.211 min Scan# 3381
Delta R.T. 0.003 min
Lab File: VU052910.D
Acq: 01 Feb 2023 17:06

Tgt Ion:146 Resp: 3066222
Ion Ratio Lower Upper
146 100
111 41.2 33.2 49.8
148 63.7 50.2 75.4

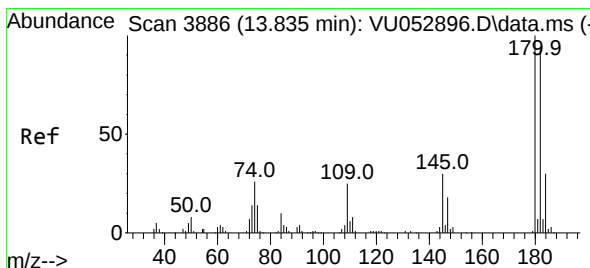
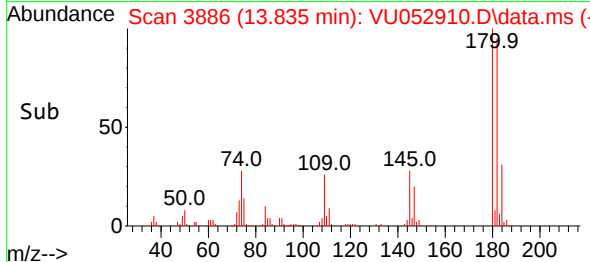
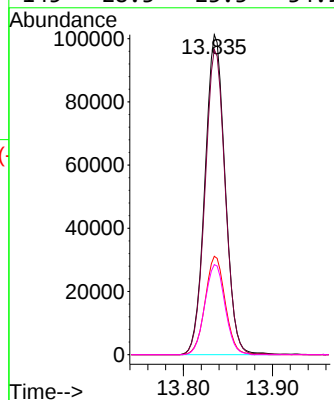
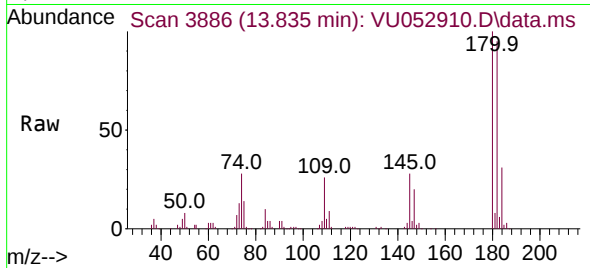




#69
 1,3,5-Trichlorobenzene
 Concen: 50.634 ug/L
 RT: 13.835 min Scan# 3886
 Delta R.T. 0.620 min
 Lab File: VU052910.D
 Acq: 01 Feb 2023 17:06

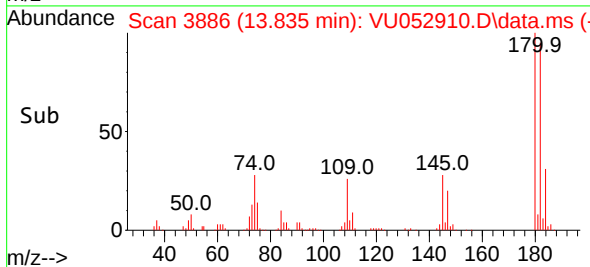
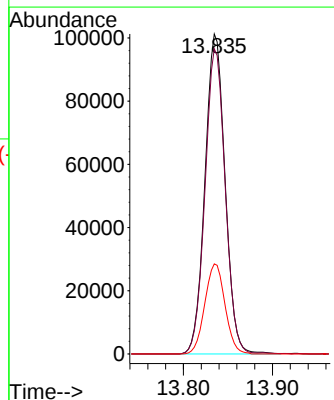
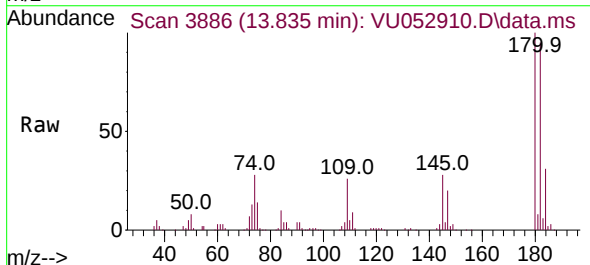
Instrument :
 MSVOA_U
 ClientSampleId :
 A44Q5

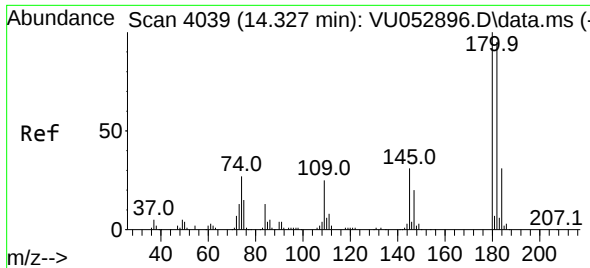
Tgt Ion:180 Resp: 158432
 Ion Ratio Lower Upper
 180 100
 182 95.5 77.0 115.6
 184 30.5 24.4 36.6
 145 28.3 23.3 34.9



#70
 1,2,4-trichlorobenzene
 Concen: 60.394 ug/L
 RT: 13.835 min Scan# 3886
 Delta R.T. -0.000 min
 Lab File: VU052910.D
 Acq: 01 Feb 2023 17:06

Tgt Ion:180 Resp: 158432
 Ion Ratio Lower Upper
 180 100
 182 95.5 78.2 117.2
 145 28.3 23.4 35.2





#72
 1,2,3-Trichlorobenzene
 Concen: 6.800 ug/L
 RT: 14.323 min Scan# 4039
 Delta R.T. -0.003 min
 Lab File: VU052910.D
 Acq: 01 Feb 2023 17:06

Instrument :
 MSVOA_U
 ClientSampleId :
 A44Q5

Tgt Ion:	180	Resp:	18853
Ion	Ratio	Lower	Upper
180	100		
182	96.4	77.5	116.3
145	31.8	24.2	36.4

