

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU040323\
 Data File : VU053540.D
 Acq On : 03 Apr 2023 23:57
 Operator : JC/MD
 Sample : 02158-12
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PMW-9S(20230330)

Quant Time: Apr 04 06:57:58 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM033123WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Apr 01 04:51:17 2023
 Response via : Initial Calibration

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

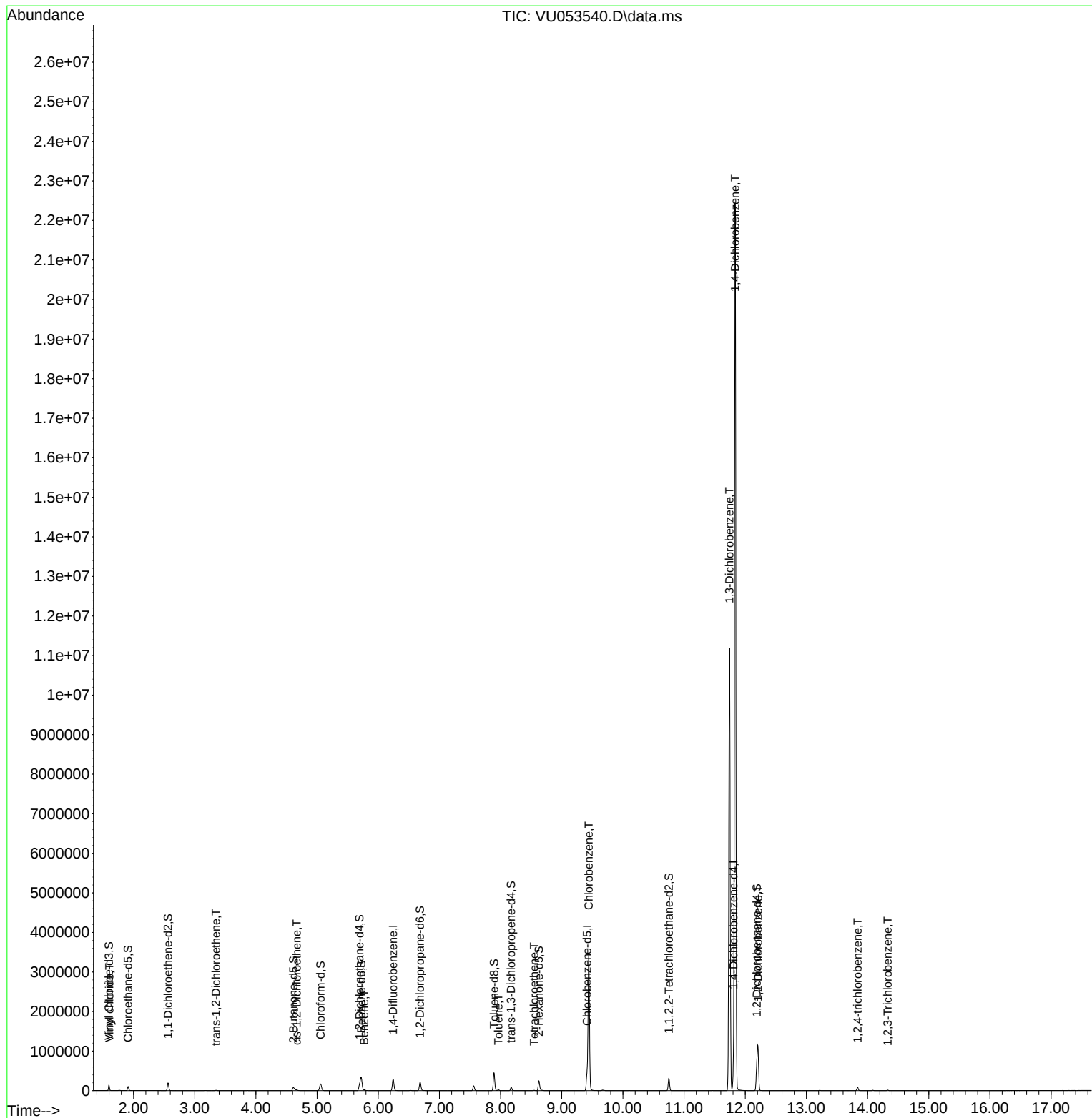
Internal Standards						
1) 1,4-Difluorobenzene	6.243	114	251402	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.414	117	239008	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.809	152	136246	50.000	ug/L	# 0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	90076	46.014	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery =	92.020%		
7) Chloroethane-d5	1.909	69	75313	49.898	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	99.800%		
11) 1,1-Dichloroethene-d2	2.562	63	111068	36.653	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	73.300%		
21) 2-Butanone-d5	4.613	46	111003	125.243	ug/L	0.00
Spiked Amount 100.000	Range 40 - 130		Recovery =	125.240%		
24) Chloroform-d	5.057	84	159882	49.385	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	98.760%		
26) 1,2-Dichloroethane-d4	5.694	65	104497	54.624	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	109.240%		
32) Benzene-d6	5.722	84	327918	50.828	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	101.660%		
36) 1,2-Dichloropropane-d6	6.684	67	102070	51.762	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery =	103.520%		
41) Toluene-d8	7.893	98	311657	48.604	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	97.200%		
43) trans-1,3-Dichloroprop...	8.172	79	48889	48.030	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	96.060%		
47) 2-Hexanone-d5	8.626	63	88655	131.733	ug/L	0.00
Spiked Amount 100.000	Range 45 - 130		Recovery =	131.730%#		
56) 1,1,2,2-Tetrachloroeth...	10.751	84	150115	54.011	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery =	108.020%		
66) 1,2-Dichlorobenzene-d4	12.188	152	132424	46.564	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	93.120%		
Target Compounds						Qvalue
5) Vinyl chloride	1.604	62	11733	6.038	ug/L	# 82
17) trans-1,2-Dichloroethene	3.346	96	4188	2.701	ug/L	92
20) cis-1,2-Dichloroethene	4.668	96	10231	5.713	ug/L	88
33) Benzene	5.771	78	18349	2.947	ug/L	100
42) Toluene	7.967	91	16119	2.284	ug/L	95
46) Tetrachloroethene	8.549	164	2015	1.289	ug/L	90
51) Chlorobenzene	9.443	112	1921358	395.158	ug/L	96
64) 1,3-Dichlorobenzene	11.741	146	4586175	1089.592	ug/L	97
65) 1,4-Dichlorobenzene	11.835	146	8946860	2085.591	ug/L	97
67) 1,2-Dichlorobenzene	12.208	146	431376	102.831	ug/L	98
70) 1,2,4-trichlorobenzene	13.838	180	26555	9.189	ug/L	95
72) 1,2,3-Trichlorobenzene	14.330	180	5049	1.749	ug/L	91

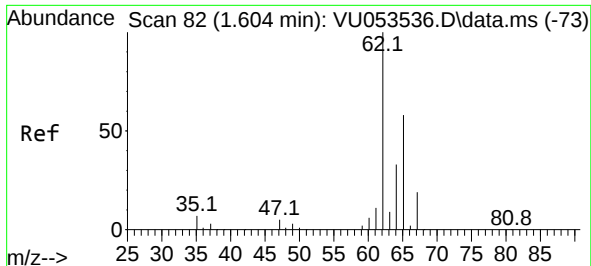
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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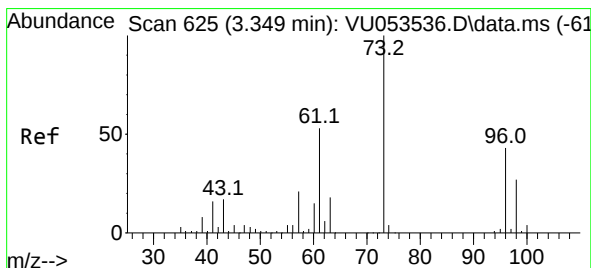
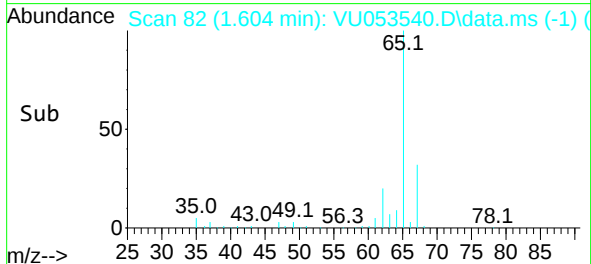
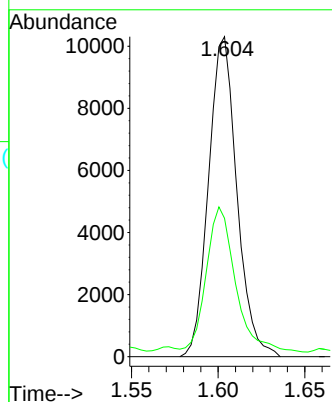
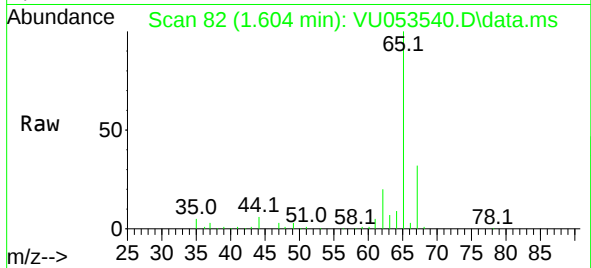




#5
 Vinyl chloride
 Concen: 6.038 ug/L
 RT: 1.604 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VU053540.D
 Acq: 03 Apr 2023 23:57

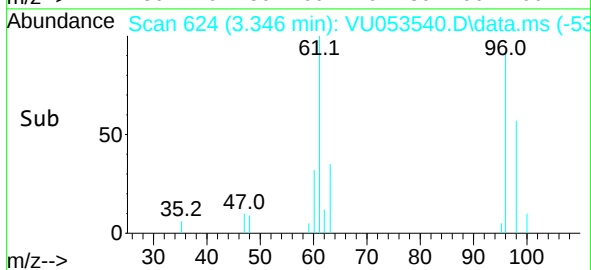
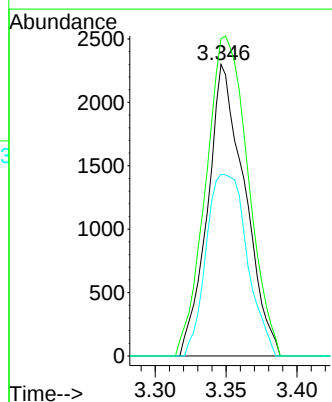
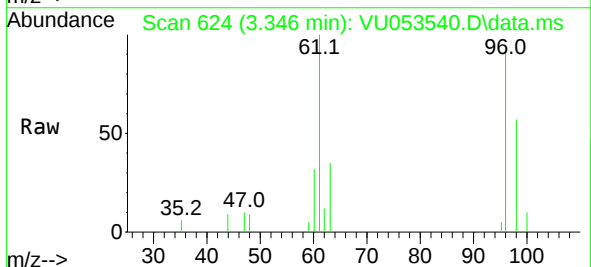
Instrument :
 MSVOA_U
 ClientSampleId :
 PMW-9S(20230330)

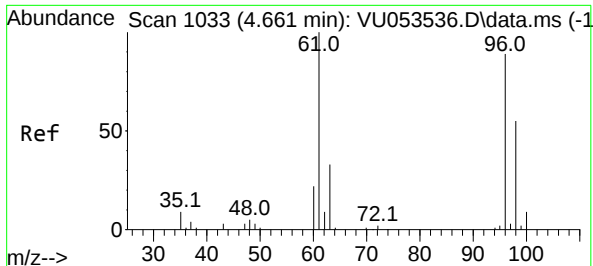
Tgt Ion: 62 Resp: 11733
 Ion Ratio Lower Upper
 62 100
 64 43.2 23.2 43.0#



#17
 trans-1,2-Dichloroethene
 Concen: 2.701 ug/L
 RT: 3.346 min Scan# 624
 Delta R.T. -0.003 min
 Lab File: VU053540.D
 Acq: 03 Apr 2023 23:57

Tgt Ion: 96 Resp: 4188
 Ion Ratio Lower Upper
 96 100
 61 108.8 84.4 156.8
 98 62.3 46.0 85.4

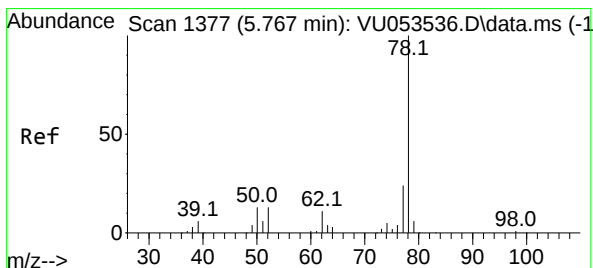
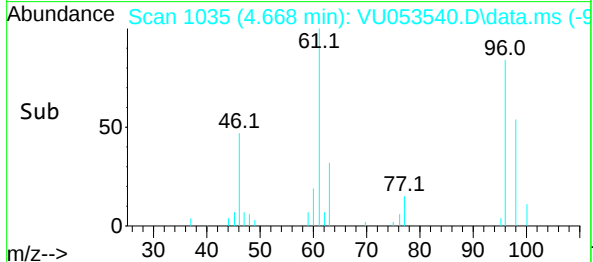
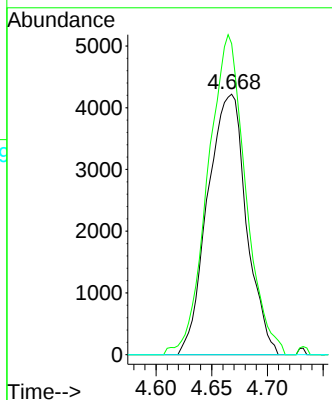
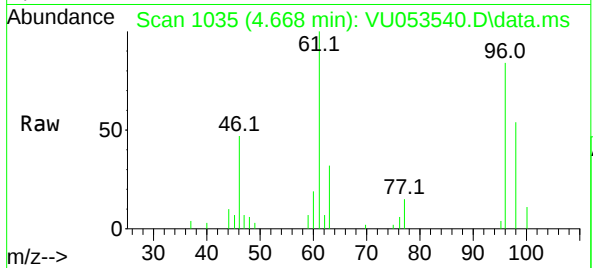




#20
 cis-1,2-Dichloroethene
 Concen: 5.713 ug/L
 RT: 4.668 min Scan# 1035
 Delta R.T. 0.006 min
 Lab File: VU053540.D
 Acq: 03 Apr 2023 23:57

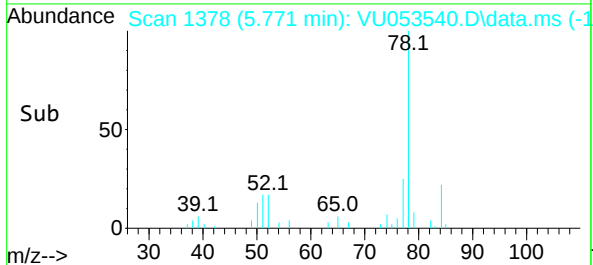
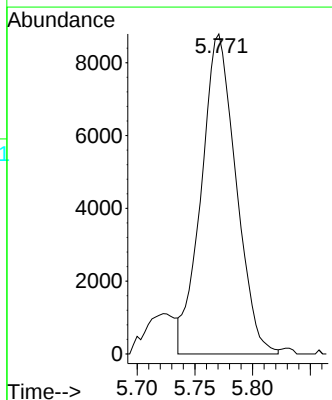
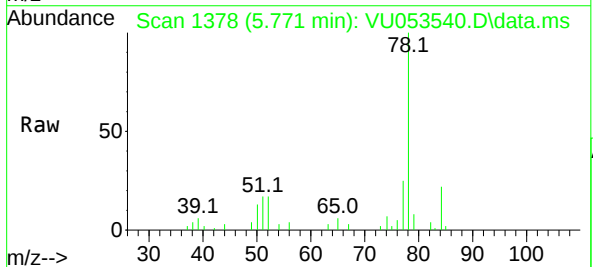
Instrument :
 MSVOA_U
 ClientSampleId :
 PMW-9S(20230330)

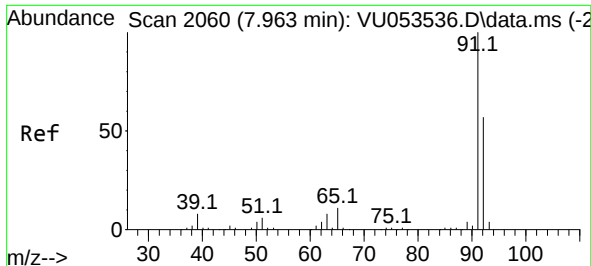
Tgt Ion: 96 Resp: 10231
 Ion Ratio Lower Upper
 96 100
 61 119.4 74.7 138.7
 68 0.0 0.0 0.0



#33
 Benzene
 Concen: 2.947 ug/L
 RT: 5.771 min Scan# 1378
 Delta R.T. 0.003 min
 Lab File: VU053540.D
 Acq: 03 Apr 2023 23:57

Tgt Ion: 78 Resp: 18349





#42

Toluene

Concen: 2.284 ug/L

RT: 7.967 min Scan# 2060

Delta R.T. 0.003 min

Lab File: VU053540.D

Acq: 03 Apr 2023 23:57

Instrument :

MSVOA_U

ClientSampleId :

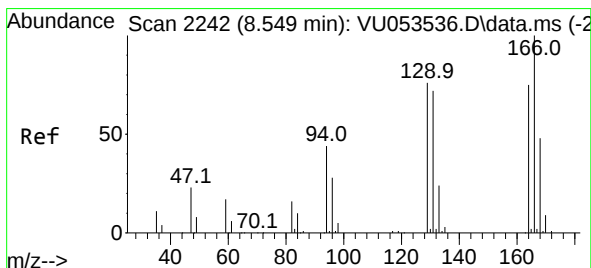
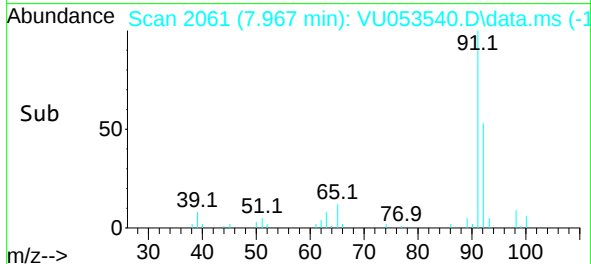
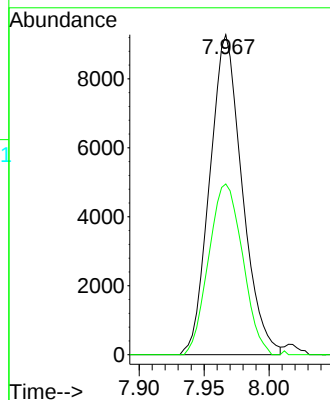
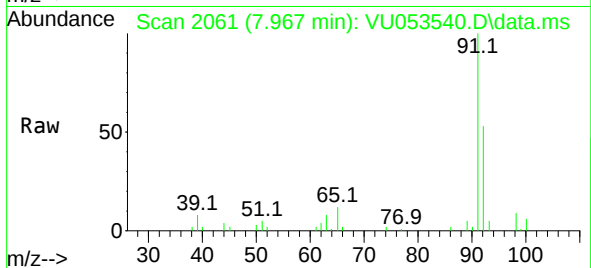
PMW-9S(20230330)

Tgt Ion: 91 Resp: 16119

Ion Ratio Lower Upper

91 100

92 53.4 39.8 73.8



#46

Tetrachloroethene

Concen: 1.289 ug/L

RT: 8.549 min Scan# 2242

Delta R.T. -0.000 min

Lab File: VU053540.D

Acq: 03 Apr 2023 23:57

Tgt Ion: 164 Resp: 2015

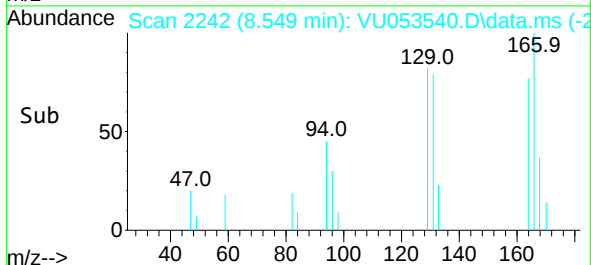
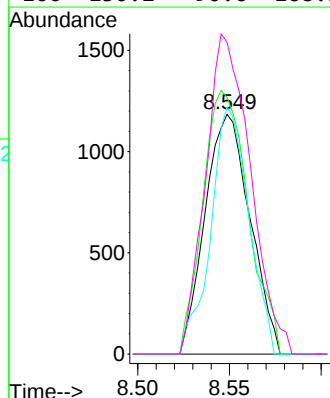
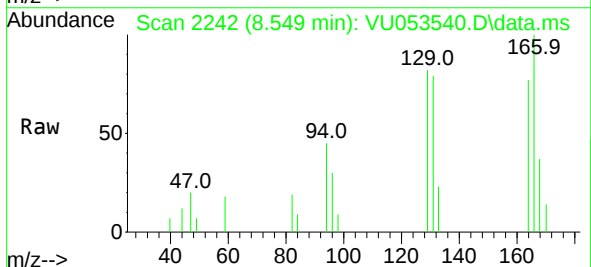
Ion Ratio Lower Upper

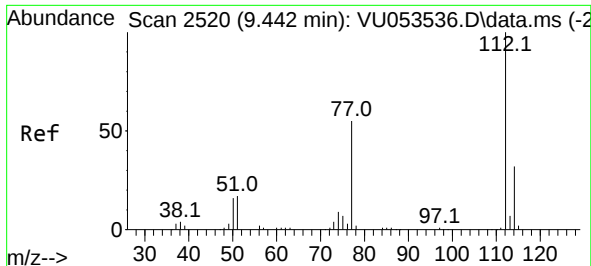
164 100

129 107.0 64.0 119.0

131 103.1 61.9 115.1

166 130.2 90.6 168.2

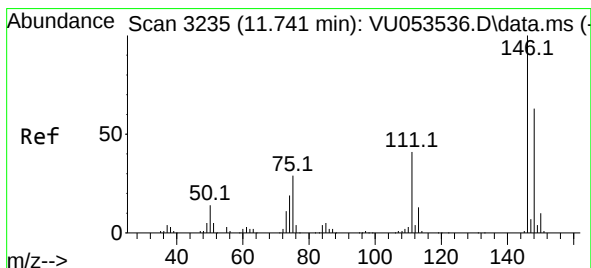
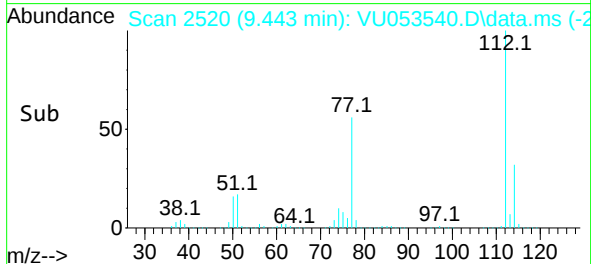
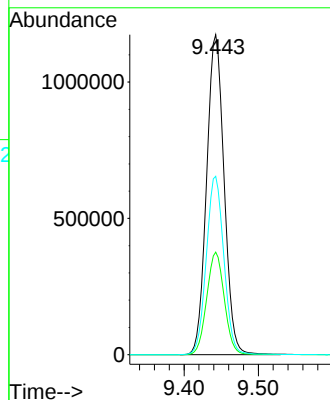
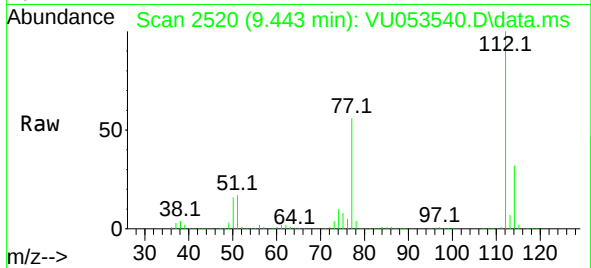




#51
Chlorobenzene
Concen: 395.158 ug/L
RT: 9.443 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU053540.D
Acq: 03 Apr 2023 23:57

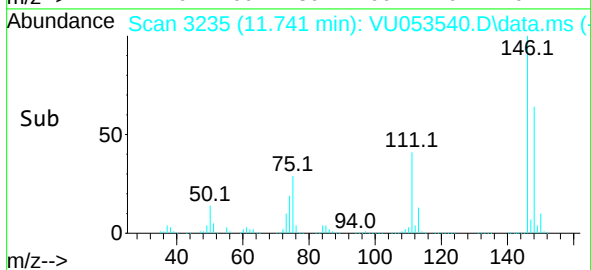
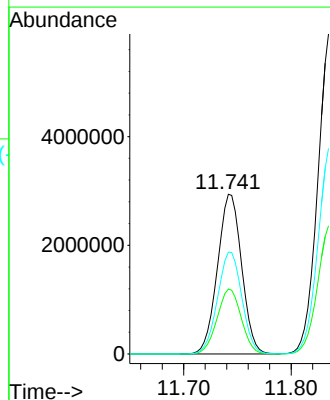
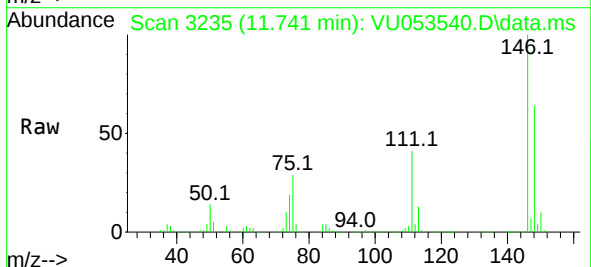
Instrument :
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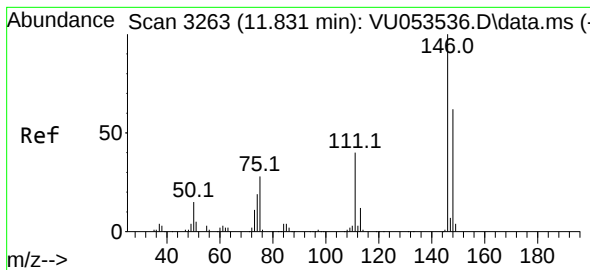
Tgt Ion:112 Resp: 1921358
Ion Ratio Lower Upper
112 100
114 32.1 22.2 41.2
77 55.8 41.3 61.9



#64
1,3-Dichlorobenzene
Concen: 1089.592 ug/L
RT: 11.741 min Scan# 3235
Delta R.T. -0.000 min
Lab File: VU053540.D
Acq: 03 Apr 2023 23:57

Tgt Ion:146 Resp: 4586175
Ion Ratio Lower Upper
146 100
111 40.8 25.7 47.7
148 63.8 44.2 82.2





#65

1,4-Dichlorobenzene

Concen: 2085.591 ug/L

RT: 11.835 min Scan# 3263

Delta R.T. 0.003 min

Lab File: VU053540.D

Acq: 03 Apr 2023 23:57

Instrument :

MSVOA_U

ClientSampleId :

PMW-9S(20230330)

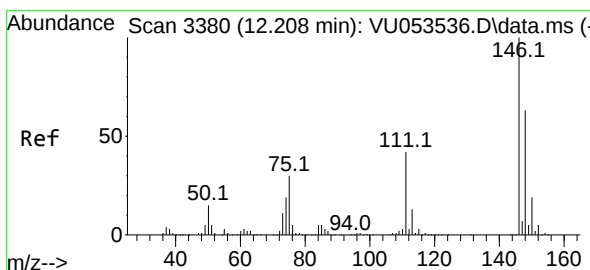
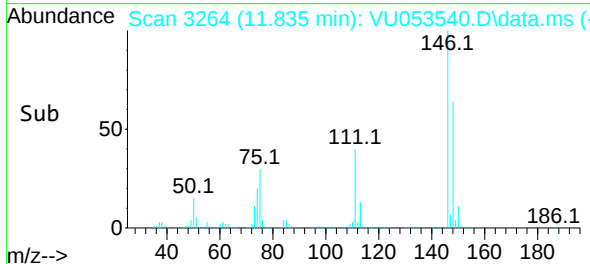
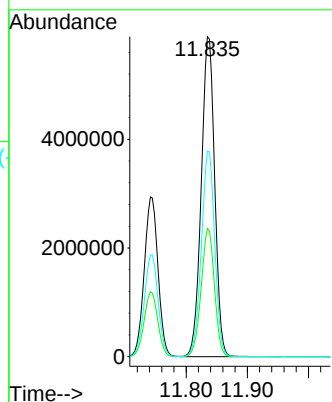
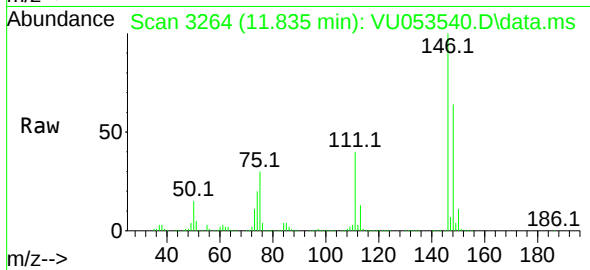
Tgt Ion:146 Resp: 8946860

Ion Ratio Lower Upper

146 100

111 40.0 25.1 46.5

148 64.2 44.3 82.3



#67

1,2-Dichlorobenzene

Concen: 102.831 ug/L

RT: 12.208 min Scan# 3380

Delta R.T. -0.000 min

Lab File: VU053540.D

Acq: 03 Apr 2023 23:57

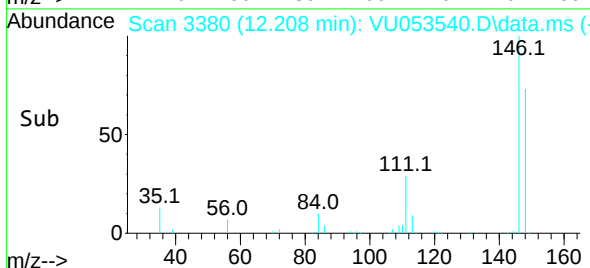
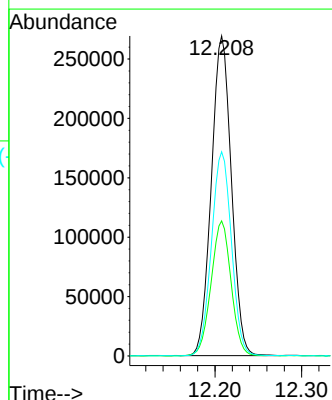
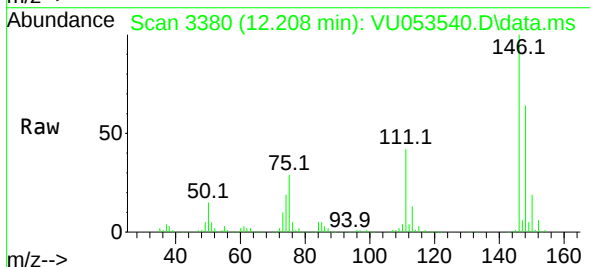
Tgt Ion:146 Resp: 431376

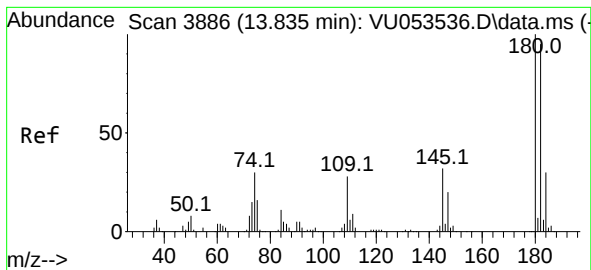
Ion Ratio Lower Upper

146 100

111 42.2 31.5 47.3

148 63.8 51.6 77.4





#70

1,2,4-trichlorobenzene

Concen: 9.189 ug/L

RT: 13.838 min Scan# 3886

Delta R.T. 0.003 min

Lab File: VU053540.D

Acq: 03 Apr 2023 23:57

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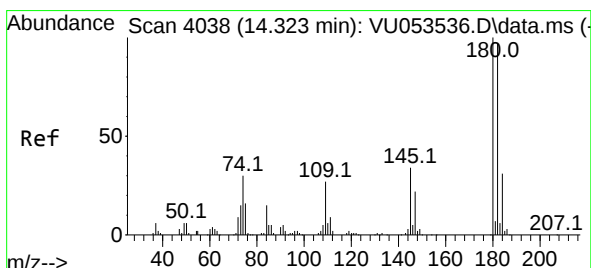
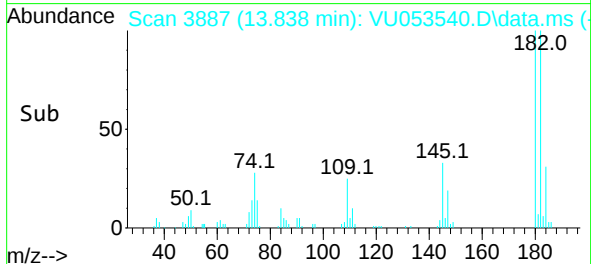
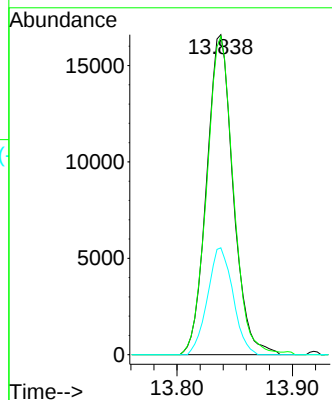
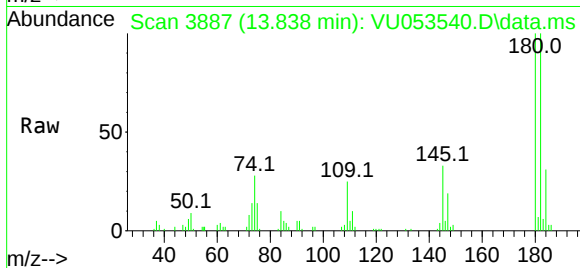
Tgt Ion:180 Resp: 26555

Ion Ratio Lower Upper

180 100

182 99.2 75.8 113.8

145 31.9 23.4 35.2



#72

1,2,3-Trichlorobenzene

Concen: 1.749 ug/L

RT: 14.330 min Scan# 4040

Delta R.T. 0.006 min

Lab File: VU053540.D

Acq: 03 Apr 2023 23:57

Tgt Ion:180 Resp: 5049

Ion Ratio Lower Upper

180 100

182 106.9 77.0 115.6

145 29.3 25.4 38.0

