

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\U040323\
 Data File : U053540.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
8) Chloroethane	1.600	64	5502	4.708	ug/L	91
10) 1,1,2-Trichloro-1,2,2-...	2.562	101	1102	0.637	ug/L #	17
12) 1,1-Dichloroethene	2.562	96	1191	0.772	ug/L #	1
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
37) 1,2-Dichloropropane	6.684	63	11211	7.090	ug/L #	86
39) cis-1,3-Dichloropropene	7.562	75	3193	1.236	ug/L	86
42) Toluene	7.967	91	16119	2.284	ug/L	95
46) Tetrachloroethene	8.549	164	2015	1.289	ug/L	90
49) Dibromochloromethane	8.545	129	2239	1.240	ug/L #	11
51) Chlorobenzene	9.443	112	1921358	395.158	ug/L	96
60) 1,2,3-Trichloropropane	11.741	75	1335702	676.125	ug/L #	48
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

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Quant Title : VOC Analysis
QLast Update : Sat Apr 01 04:51:17 2023
Response via : Initial Calibration

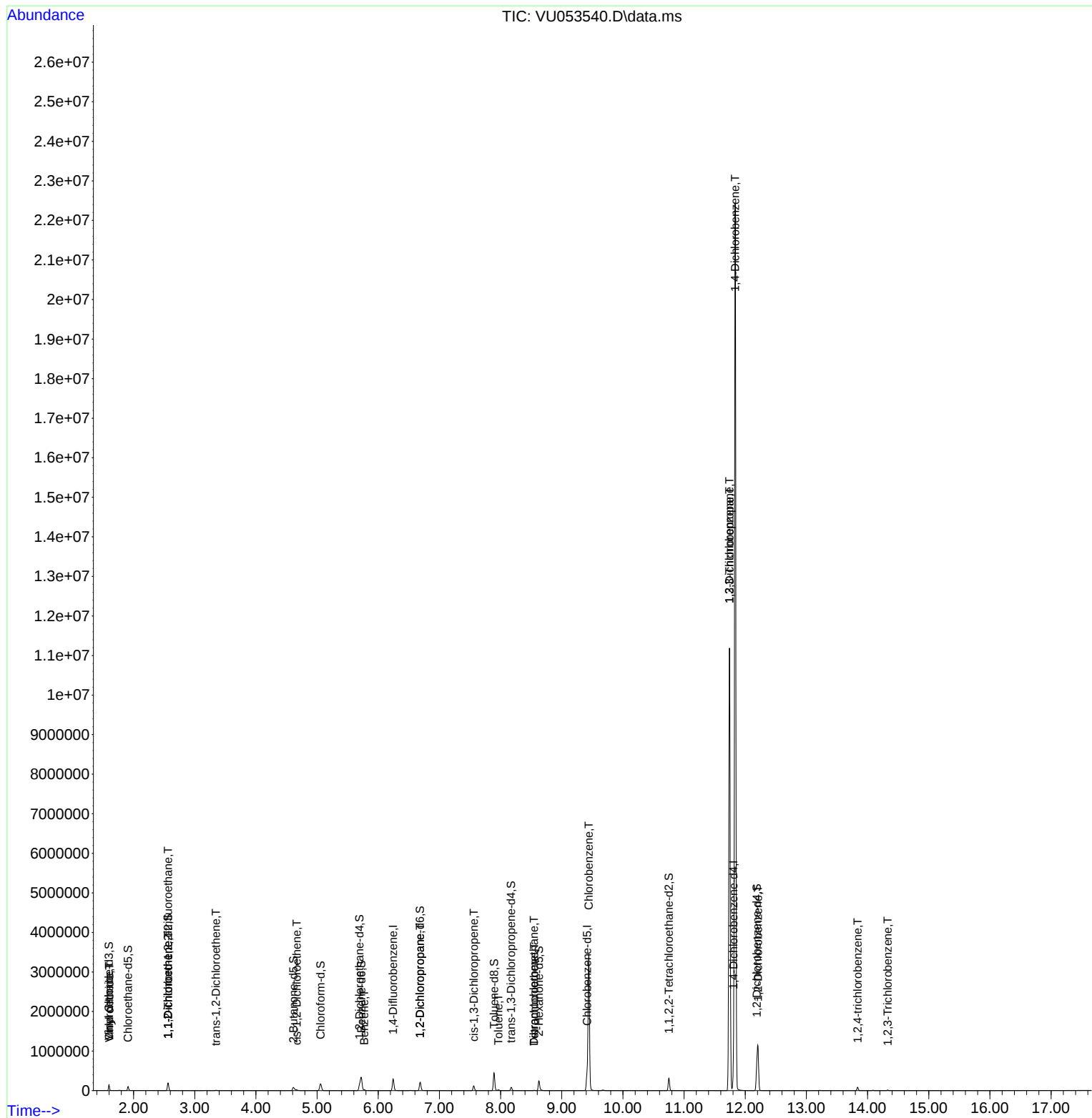
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

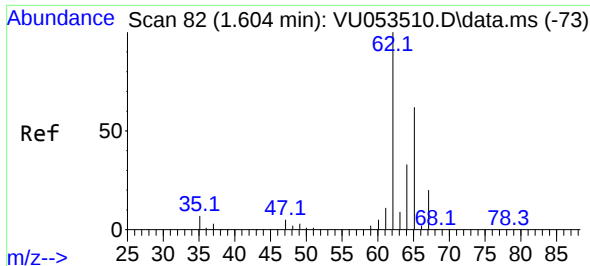
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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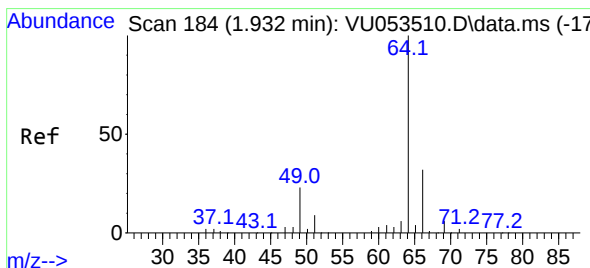
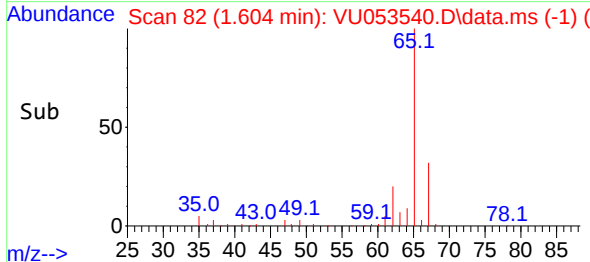
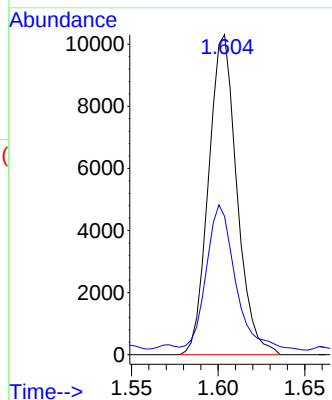
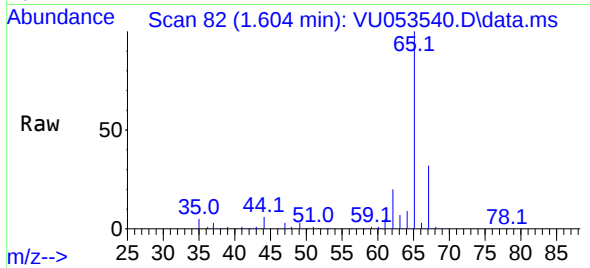




#5
 Vinyl chloride
 Concen: 6.038 ug/L
 RT: 1.604 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VU053540.D
 Acq: 03 Apr 2023 23:57

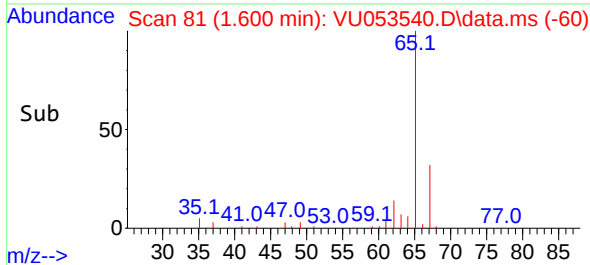
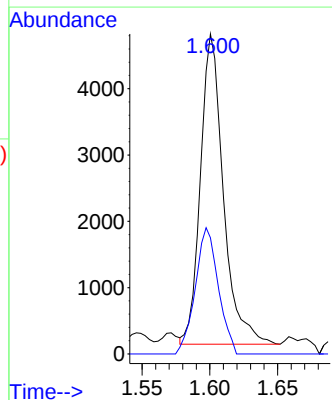
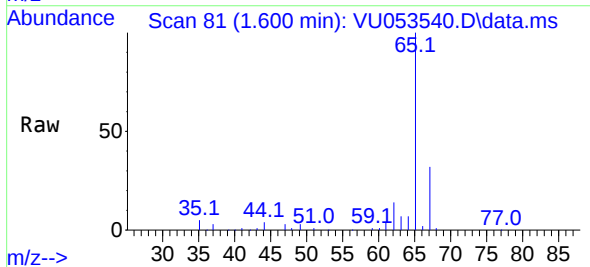
Instrument :
 MSVOA_U
 ClientSampleId :
 PMW-9S(20230330)

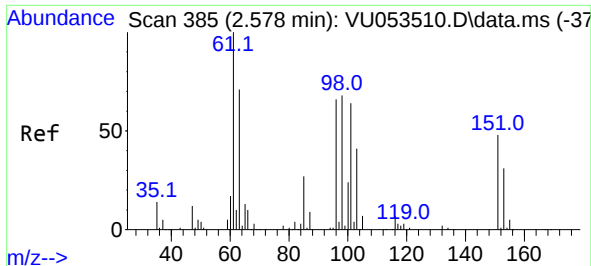
Tgt Ion: 62 Resp: 11733
 Ion Ratio Lower Upper
 62 100
 64 43.2 23.2 43.0#



#8
 Chloroethane
 Concen: 4.708 ug/L
 RT: 1.600 min Scan# 81
 Delta R.T. -0.331 min
 Lab File: VU053540.D
 Acq: 03 Apr 2023 23:57

Tgt Ion: 64 Resp: 5502
 Ion Ratio Lower Upper
 64 100
 66 36.3 21.8 40.6

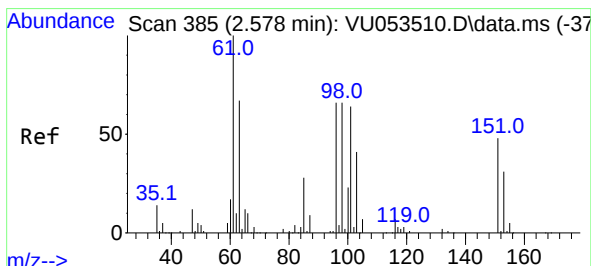
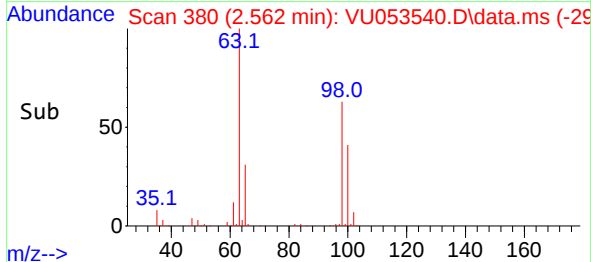
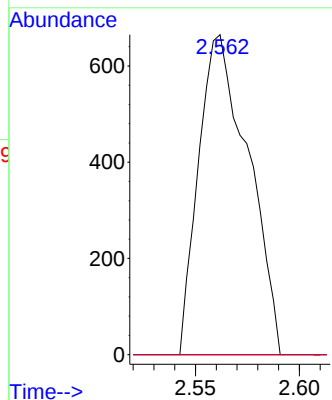
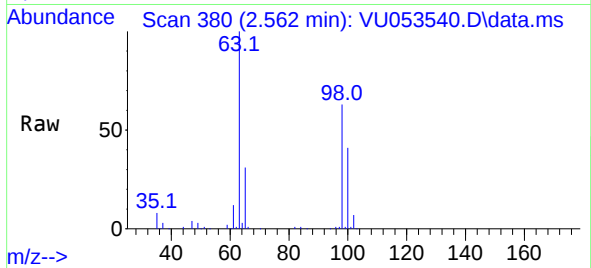




#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.637 ug/L
RT: 2.562 min Scan# 380
Delta R.T. -0.016 min
Lab File: VU053540.D
Acq: 03 Apr 2023 23:57

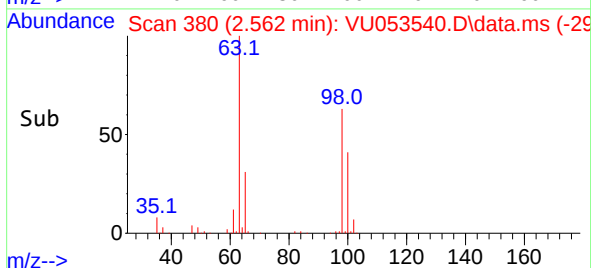
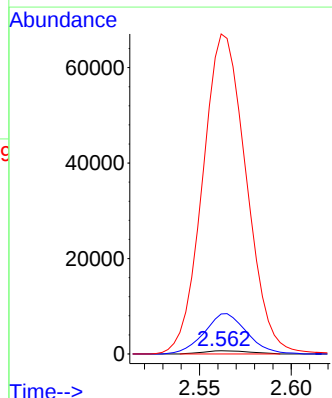
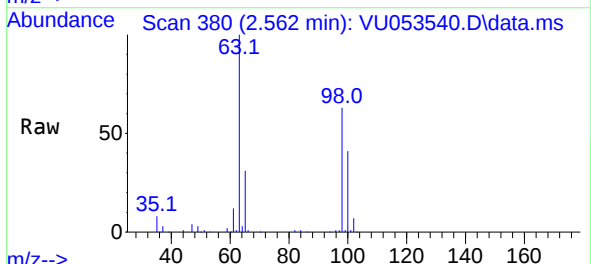
Instrument :
MSVOA_U
ClientSampleId :
PMW-9S(20230330)

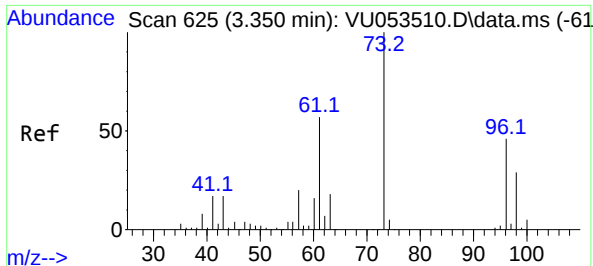
Tgt Ion:101 Resp: 1102
Ion Ratio Lower Upper
101 100
85 0.0 32.6 48.8#
151 0.0 65.8 98.6#



#12
1,1-Dichloroethene
Concen: 0.772 ug/L
RT: 2.562 min Scan# 380
Delta R.T. -0.016 min
Lab File: VU053540.D
Acq: 03 Apr 2023 23:57

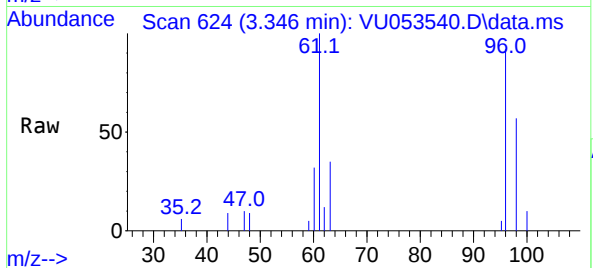
Tgt Ion: 96 Resp: 1191
Ion Ratio Lower Upper
96 100
61 1215.2 107.9 200.5#
63 9732.4 79.1 146.9#



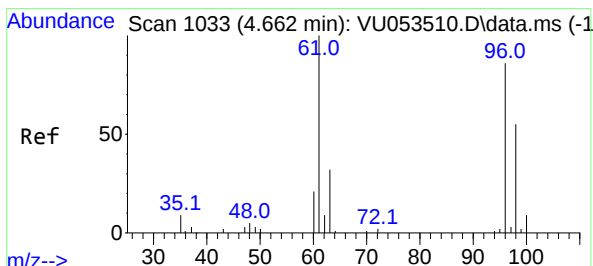
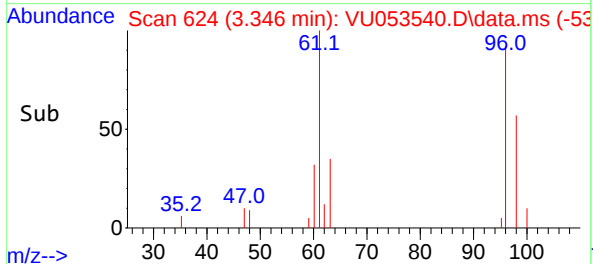
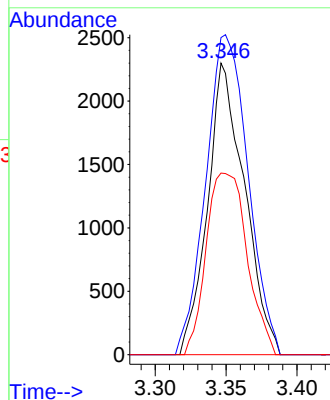


#17
trans-1,2-Dichloroethene
Concen: 2.701 ug/L
RT: 3.346 min Scan# 61
Delta R.T. -0.003 min
Lab File: VU053540.D
Acq: 03 Apr 2023 23:57

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

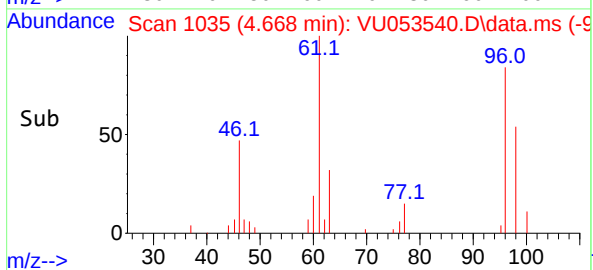
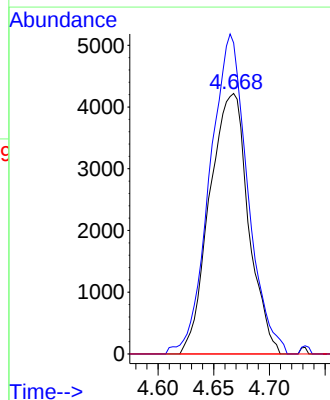
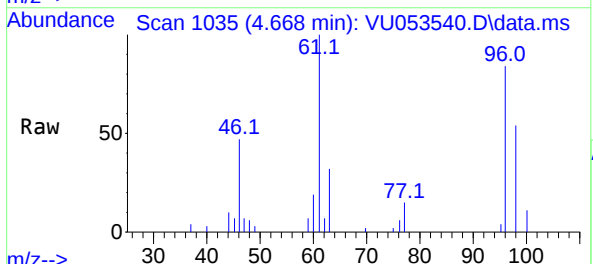


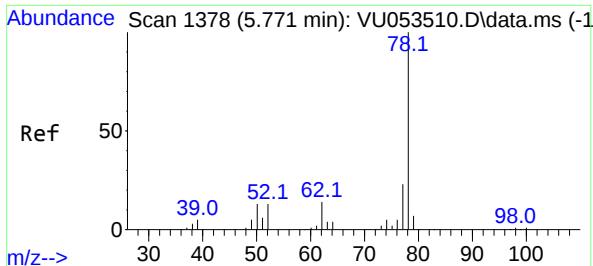
Tgt Ion: 96 Resp: 4188
Ion Ratio Lower Upper
96 100
61 108.8 84.4 156.8
98 62.3 46.0 85.4



#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

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





Benzene

Concen: 2.947 ug/L

RT: 5.771 min Scan# 11

Delta R.T. 0.003 min

Lab File: VU053540.D

Acq: 03 Apr 2023 23:57

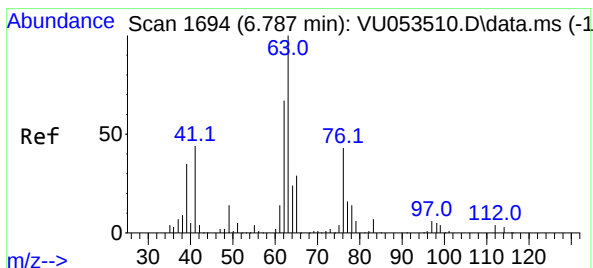
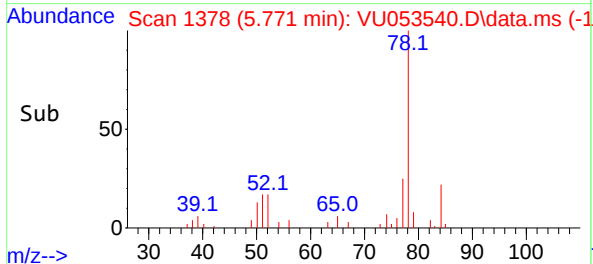
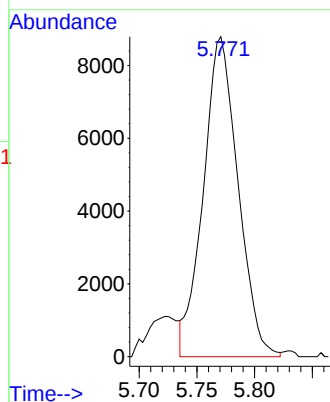
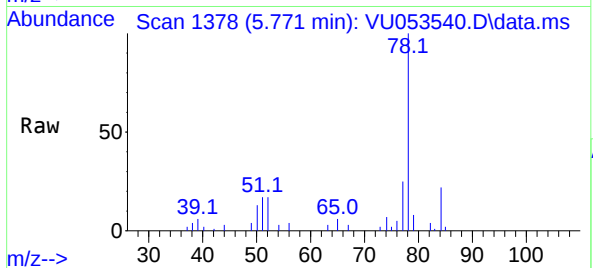
Instrument :

MSVOA_U

ClientSampleId :

PMW-9S(20230330)

Tgt Ion: 78 Resp: 18349



1,2-Dichloropropane

Concen: 7.090 ug/L

RT: 6.684 min Scan# 1662

Delta R.T. -0.100 min

Lab File: VU053540.D

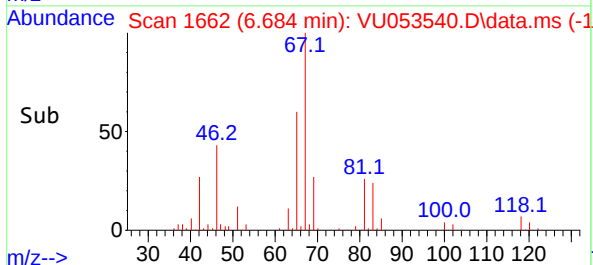
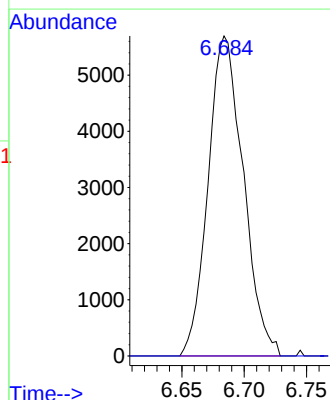
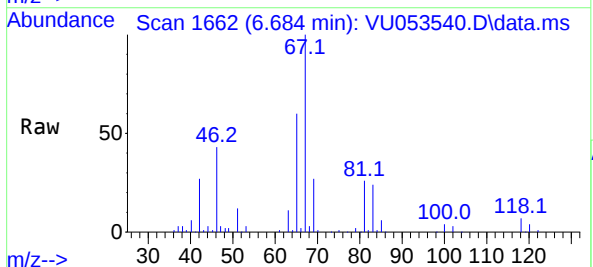
Acq: 03 Apr 2023 23:57

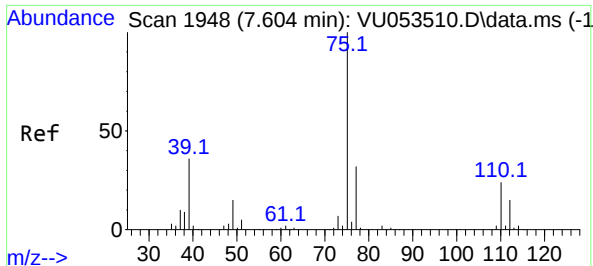
Tgt Ion: 63 Resp: 11211

Ion Ratio Lower Upper

63 100

112 0.0 3.8 5.6#

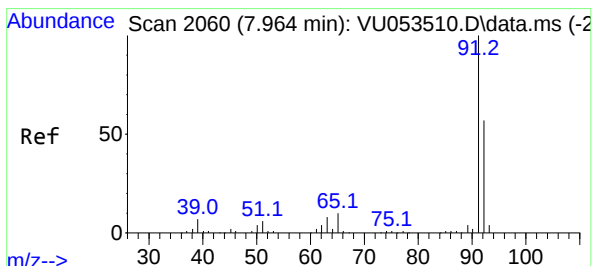
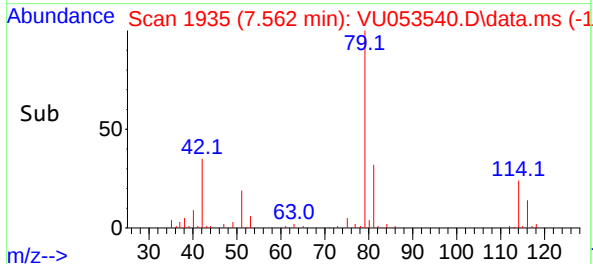
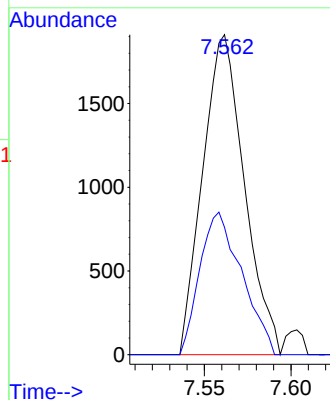
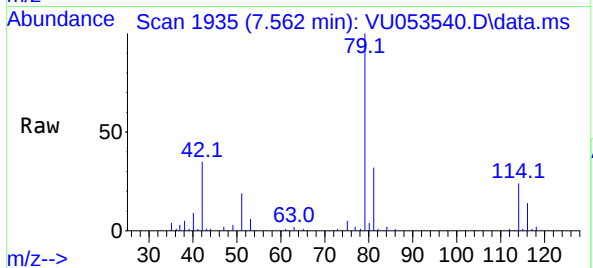




#39
cis-1,3-Dichloropropene
Concen: 1.236 ug/L
RT: 7.562 min Scan# 1948
Delta R.T. -0.039 min
Lab File: VU053540.D
Acq: 03 Apr 2023 23:57

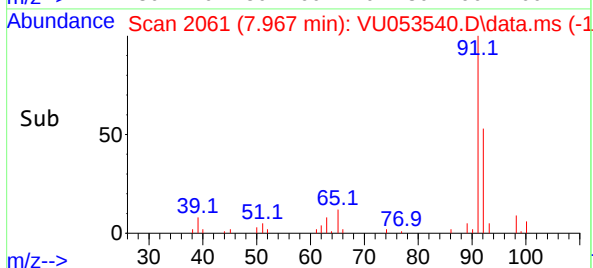
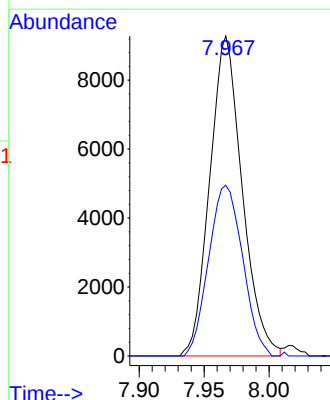
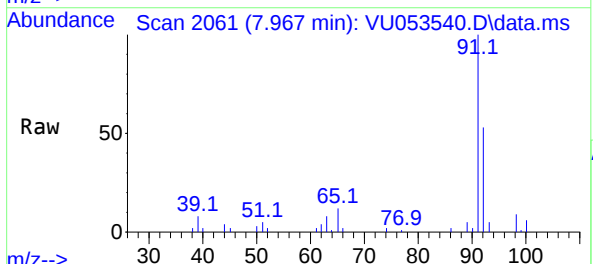
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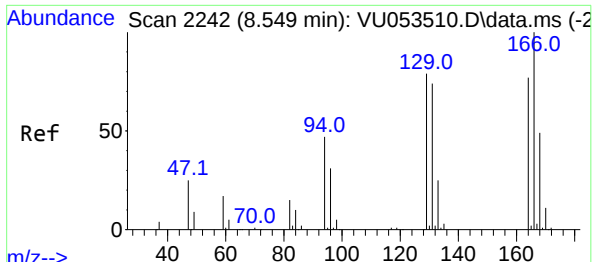
Tgt Ion: 75 Resp: 3193
Ion Ratio Lower Upper
75 100
77 39.8 22.5 41.7



#42
Toluene
Concen: 2.284 ug/L
RT: 7.967 min Scan# 2061
Delta R.T. 0.003 min
Lab File: VU053540.D
Acq: 03 Apr 2023 23:57

Tgt Ion: 91 Resp: 16119
Ion Ratio Lower Upper
91 100
92 53.4 39.8 73.8



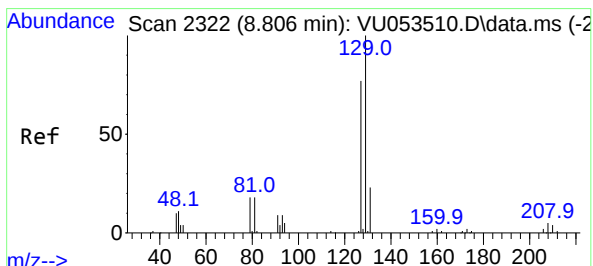
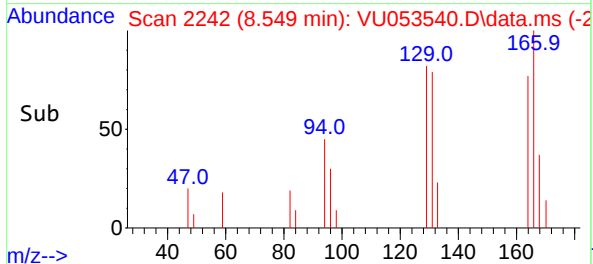
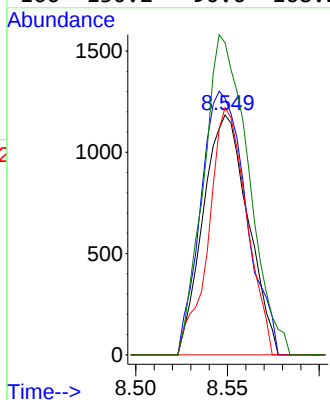
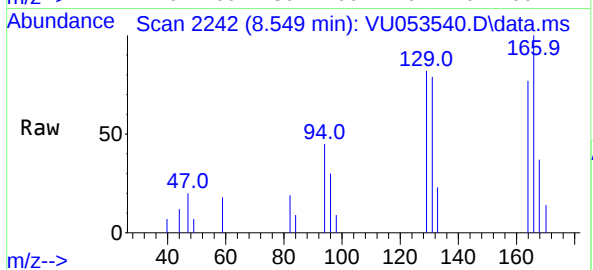


#46
Tetrachloroethene
Concen: 1.289 ug/L
RT: 8.549 min Scan# 211
Delta R.T. -0.000 min
Lab File: VU053540.D
Acq: 03 Apr 2023 23:57

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

Tgt Ion:164 Resp: 2015

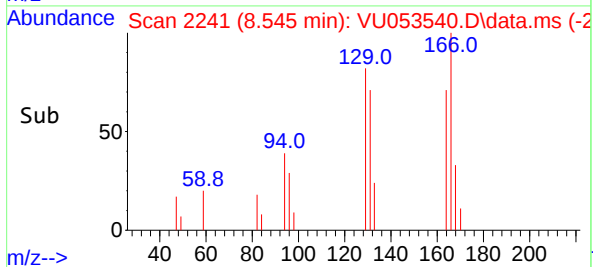
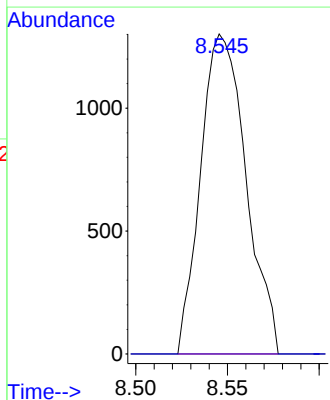
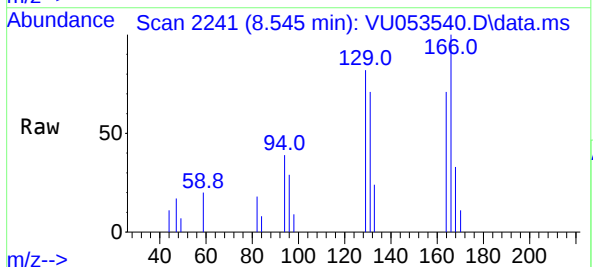
Ion	Ratio	Lower	Upper
164	100		
129	107.0	64.0	119.0
131	103.1	61.9	115.1
166	130.2	90.6	168.2

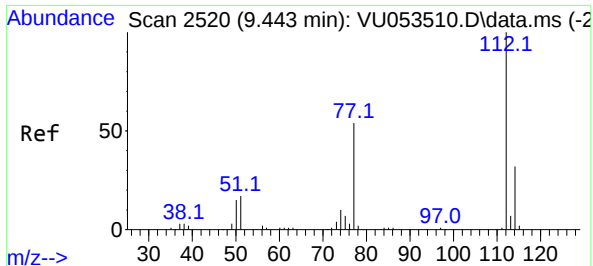


#49
Dibromochloromethane
Concen: 1.240 ug/L
RT: 8.545 min Scan# 2241
Delta R.T. -0.257 min
Lab File: VU053540.D
Acq: 03 Apr 2023 23:57

Tgt Ion:129 Resp: 2239

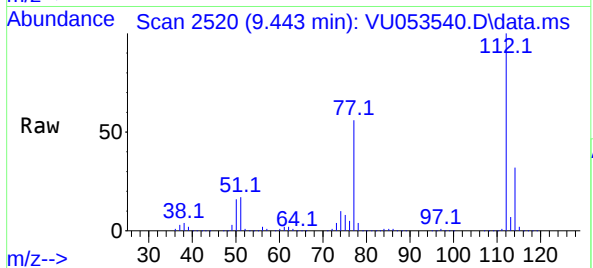
Ion	Ratio	Lower	Upper
129	100		
127	0.0	53.5	99.3#



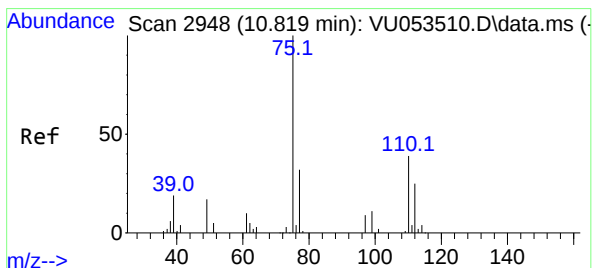
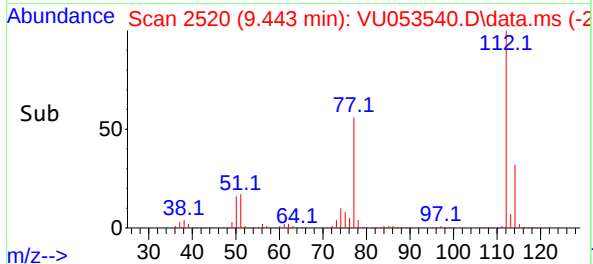
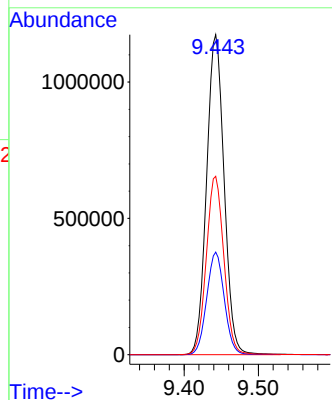


#51
Chlorobenzene
Concen: 395.158 ug/L
RT: 9.443 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU053540.D
Acq: 03 Apr 2023 23:57

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

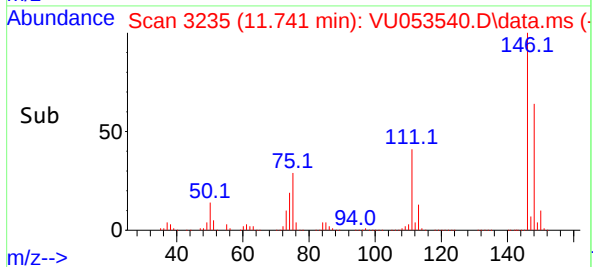
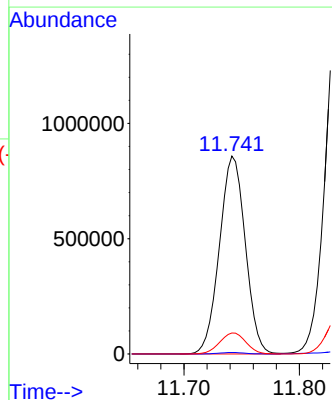
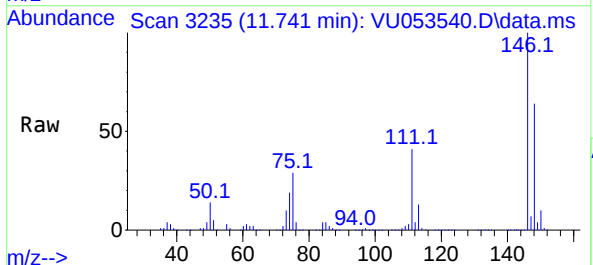


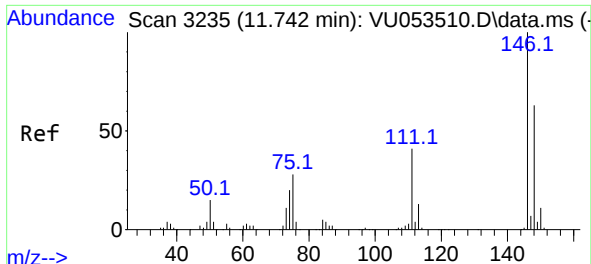
Tgt Ion:112 Resp: 1921358
Ion Ratio Lower Upper
112 100
114 32.1 22.2 41.2
77 55.8 41.3 61.9



#60
1,2,3-Trichloropropane
Concen: 676.125 ug/L
RT: 11.741 min Scan# 3235
Delta R.T. 0.926 min
Lab File: VU053540.D
Acq: 03 Apr 2023 23:57

Tgt Ion: 75 Resp: 1335702
Ion Ratio Lower Upper
75 100
77 0.7 26.0 39.0#
110 10.8 32.6 48.8#

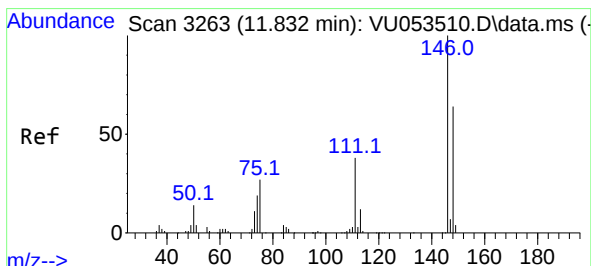
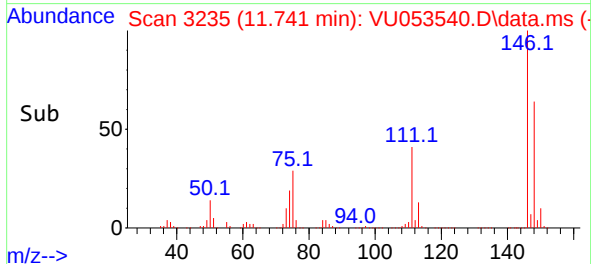
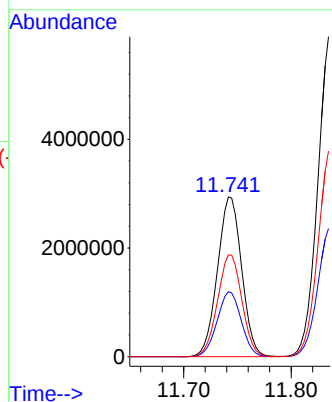
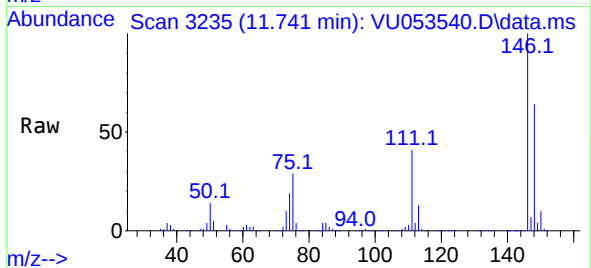




#64
1,3-Dichlorobenzene
Concen: 1089.592 ug/L
RT: 11.741 min Scan# 31
Delta R.T. -0.000 min
Lab File: VU053540.D
Acq: 03 Apr 2023 23:57

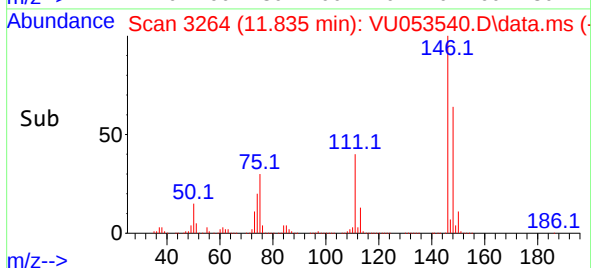
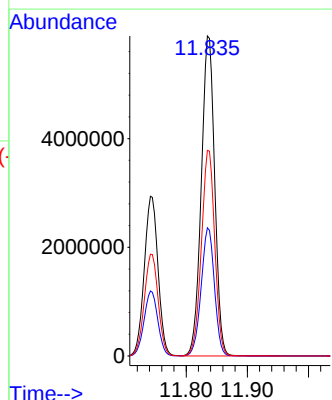
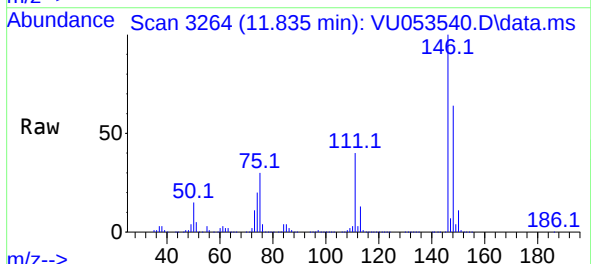
Instrument :
MSVOA_U
ClientSampleId :
PMW-9S(20230330)

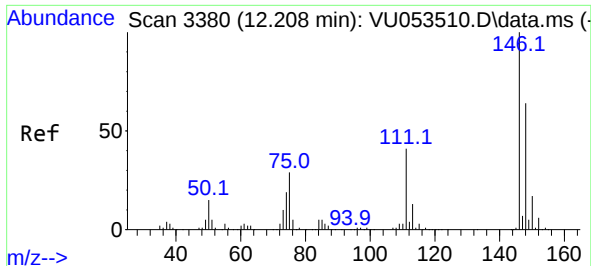
Tgt Ion:146 Resp: 4586175
Ion Ratio Lower Upper
146 100
111 40.8 25.7 47.7
148 63.8 44.2 82.2



#65
1,4-Dichlorobenzene
Concen: 2085.591 ug/L
RT: 11.835 min Scan# 3264
Delta R.T. 0.003 min
Lab File: VU053540.D
Acq: 03 Apr 2023 23:57

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

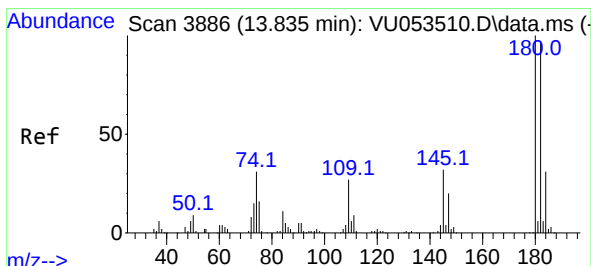
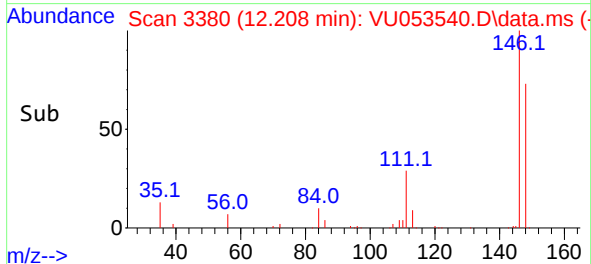
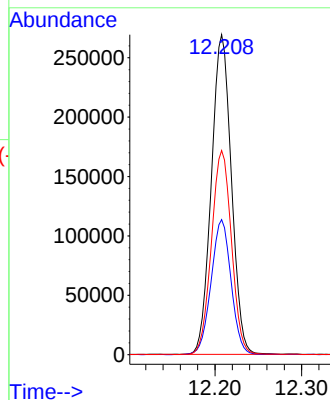
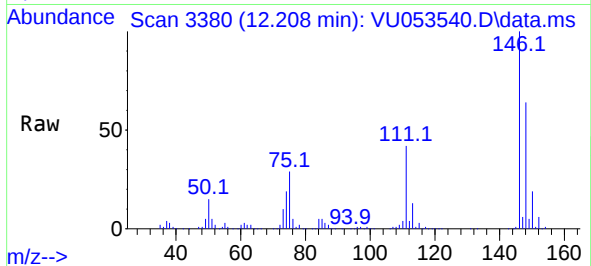




#67
1,2-Dichlorobenzene
Concen: 102.831 ug/L
RT: 12.208 min Scan# 311
Delta R.T. -0.000 min
Lab File: VU053540.D
Acq: 03 Apr 2023 23:57

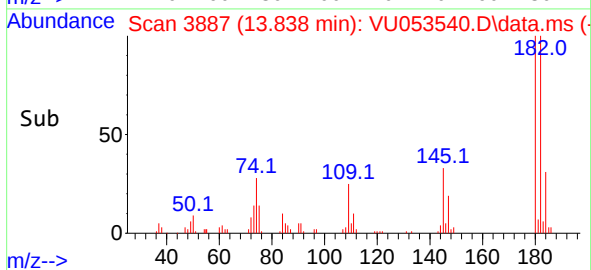
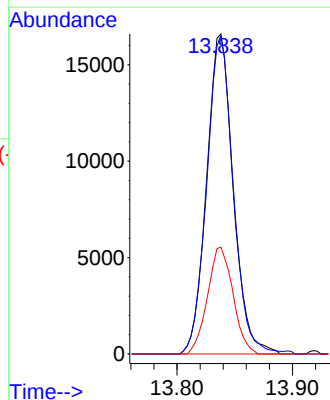
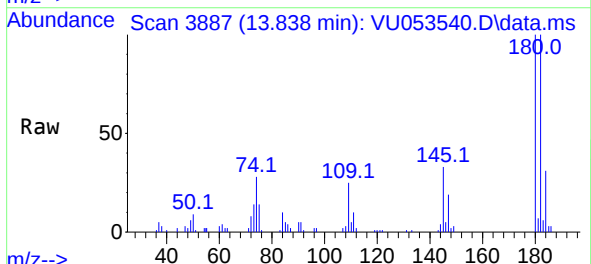
Instrument :
MSVOA_U
ClientSampleId :
PMW-9S(20230330)

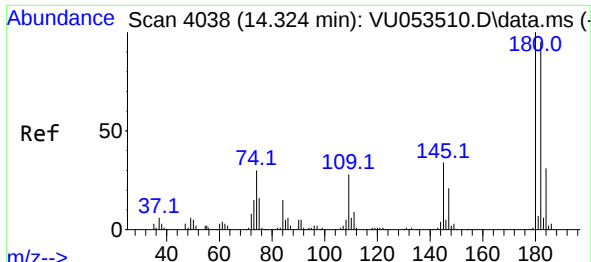
Tgt Ion:146	Resp:	431376
Ion	Ratio	Lower Upper
146	100	
111	42.2	31.5 47.3
148	63.8	51.6 77.4



#70
1,2,4-trichlorobenzene
Concen: 9.189 ug/L
RT: 13.838 min Scan# 3887
Delta R.T. 0.003 min
Lab File: VU053540.D
Acq: 03 Apr 2023 23:57

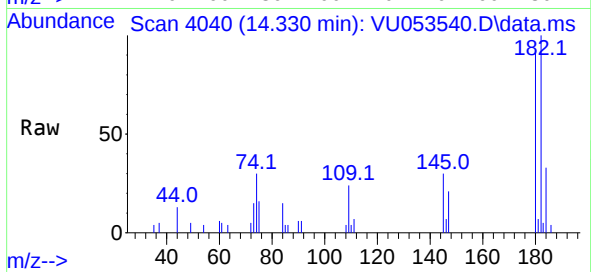
Tgt Ion:180	Resp:	26555
Ion	Ratio	Lower Upper
180	100	
182	99.2	75.8 113.8
145	31.9	23.4 35.2





#72
 1,2,3-Trichlorobenzene
 Concen: 1.749 ug/L
 RT: 14.330 min Scan# 40
 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:180	Resp:	5049
Ion	Ratio	Lower Upper
180	100	
182	106.9	77.0 115.6
145	29.3	25.4 38.0

