

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\U040323\
 Data File : U053529.D
 Acq On : 03 Apr 2023 18:49
 Operator : JC/MD
 Sample : 02158-06
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PMW-5(20230329)

Quant Time: Apr 04 05:19:07 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	268363	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.414	117	266105	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	171651	50.000	ug/L	# 0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	101911	48.770	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	97.540%
7) Chloroethane-d5	1.909	69	82561	51.243	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	102.480%
11) 1,1-Dichloroethene-d2	2.565	63	139953	43.266	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	86.540%
21) 2-Butanone-d5	4.629	46	121019	127.914	ug/L	0.02
Spiked Amount	100.000	Range	40 - 130	Recovery	=	127.910%
24) Chloroform-d	5.057	84	168565	48.776	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.560%
26) 1,2-Dichloroethane-d4	5.697	65	106085	51.949	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	103.900%
32) Benzene-d6	5.723	84	347914	48.436	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.880%
36) 1,2-Dichloropropane-d6	6.687	67	109802	50.013	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	100.020%
41) Toluene-d8	7.896	98	340352	47.674	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.340%
43) trans-1,3-Dichloroprop...	8.176	79	56226	49.613	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	99.220%
47) 2-Hexanone-d5	8.626	63	93964	125.404	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	125.400%
56) 1,1,2,2-Tetrachloroeth...	10.751	84	168189	54.352	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	108.700%
66) 1,2-Dichlorobenzene-d4	12.192	152	169764	47.381	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.760%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.600	62	212475	102.434	ug/L	99
10) 1,1,2-Trichloro-1,2,2-...	2.568	101	1278	0.692	ug/L #	17
12) 1,1-Dichloroethene	2.578	96	38662	23.479	ug/L #	54
13) Acetone	2.629	43	2453	2.885	ug/L	93
17) trans-1,2-Dichloroethene	3.353	96	18432	11.138	ug/L	95
20) cis-1,2-Dichloroethene	4.658	96	19094360	9989.084	ug/L	94
29) Cyclohexane	5.382	56	30419	11.874	ug/L	94
33) Benzene	5.768	78	322168	46.467	ug/L	100
34) Trichloroethene	6.539	95	3059891	1459.208	ug/L	96
35) Methylcyclohexane	6.758	83	153775	49.889	ug/L	98
39) cis-1,3-Dichloropropene	7.562	75	3430	1.192	ug/L #	64
44) trans-1,3-Dichloropropene	8.176	75	2898	1.066	ug/L #	83
45) 1,1,2-Trichloroethane	8.365	97	17505	9.057	ug/L #	20
46) Tetrachloroethene	8.562	164	13042311	7495.049	ug/L	89
51) Chlorobenzene	9.443	112	2507519	463.197	ug/L	95
52) Ethylbenzene	9.568	91	3296914	376.944	ug/L	100
53) m,p-Xylene	9.690	106	5262907	1538.543	ug/L	99
54) o-xylene	10.095	106	1692191	500.345	ug/L	95
55) Styrene	10.095	104	80302	14.577	ug/L #	1

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU040323\
 Data File : VU053529.D
 Acq On : 03 Apr 2023 18:49
 Operator : JC/MD
 Sample : 02158-06
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PMW-5(20230329)

Quant Time: Apr 04 05:19:07 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM033123WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat 01 04:51:17 2023
 Response via : Initial Calibration

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

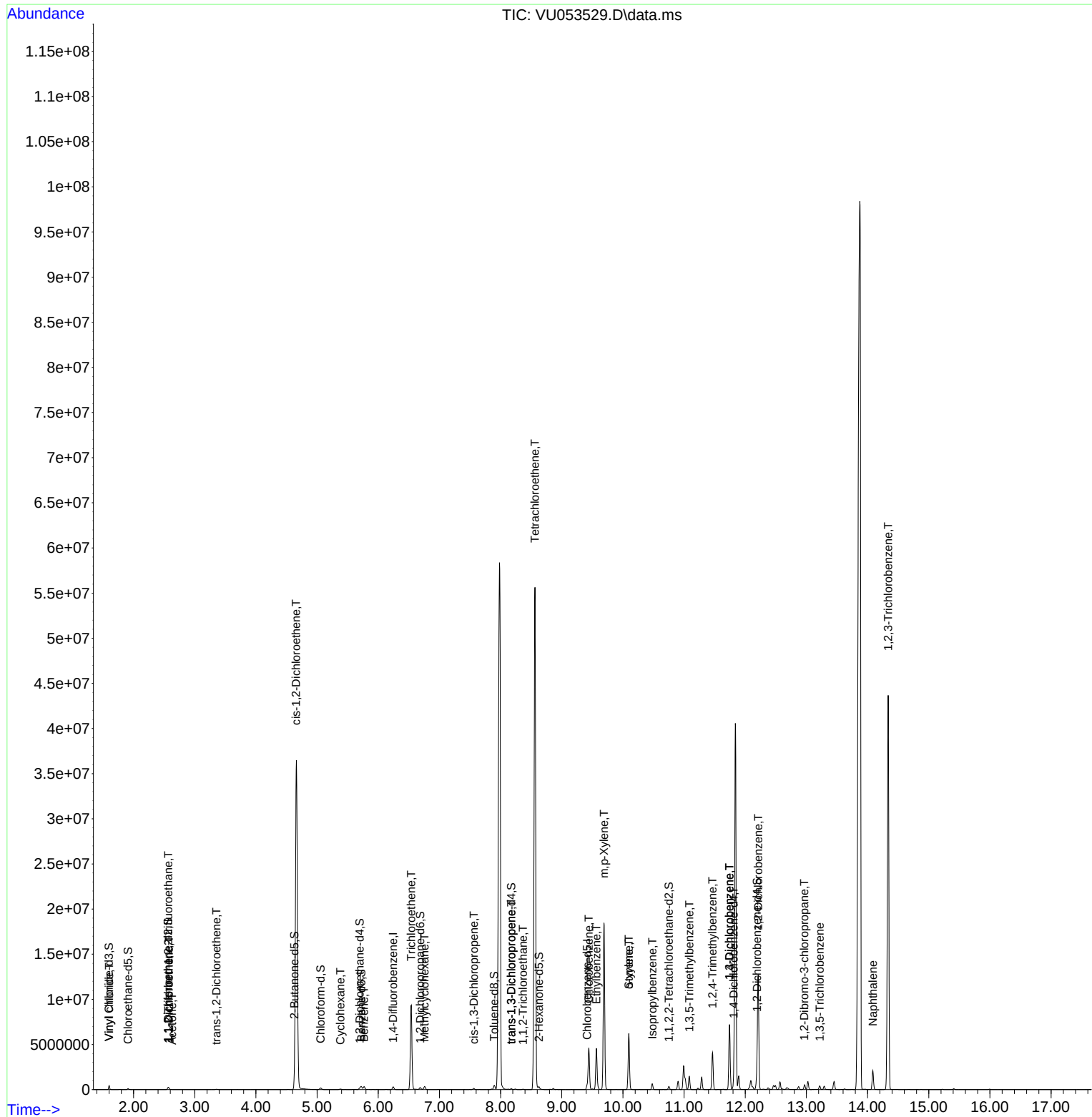
61) Isopropylbenzene	10.481	105	426448	42.021	ug/L	99
62) 1,3,5-Trimethylbenzene	11.086	105	808830	95.875	ug/L	99
63) 1,2,4-Trimethylbenzene	11.465	105	2330803	278.949	ug/L	97
64) 1,3-Dichlorobenzene	11.742	146	2886053	544.246	ug/L	97
65) 1,4-Dichlorobenzene	11.742	146	2886053	533.999	ug/L	96
67) 1,2-Dichlorobenzene	12.211	146	5056945	956.832	ug/L	98
68) 1,2-Dibromo-3-chloropr...	12.967	75	3169	4.776	ug/L #	1
69) 1,3,5-Trichlorobenzene	13.217	180	123811	31.529	ug/L	99
71) Naphthalene	14.086	128	1667894	153.054	ug/L	100
72) 1,2,3-Trichlorobenzene	14.336	180	13854280	3809.832	ug/L	98

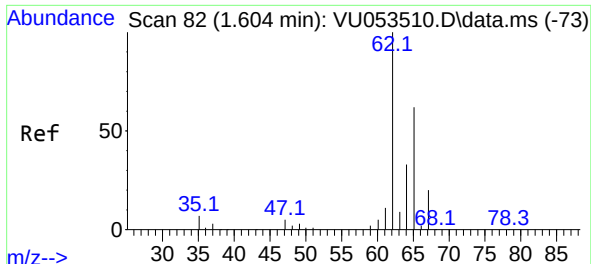
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU040323\
Data File : VU053529.D
Acq On : 03 Apr 2023 18:49
Operator : JC/MD
Sample : 02158-06
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
PMW-5(20230329)

Quant Time: Apr 04 05:19:07 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

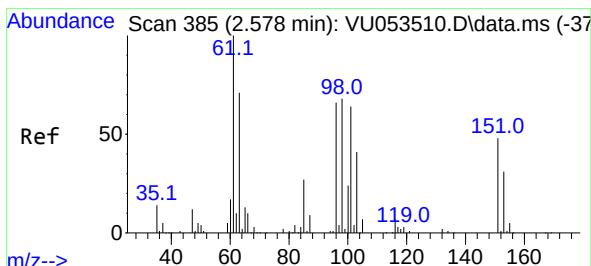
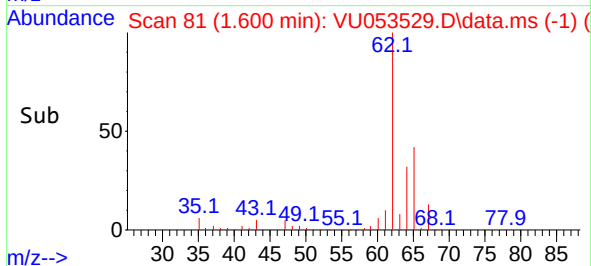
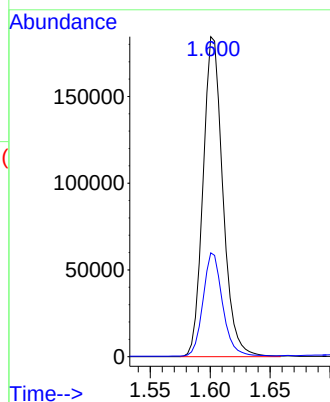
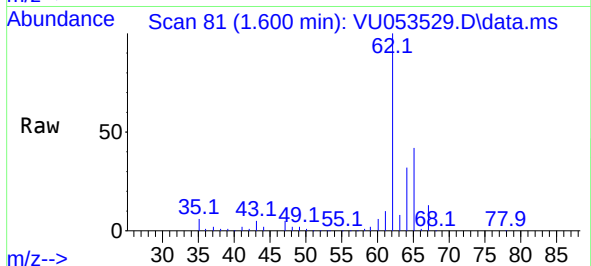




#5
 Vinyl chloride
 Concen: 102.434 ug/L
 RT: 1.600 min Scan# 81
 Delta R.T. -0.003 min
 Lab File: VU053529.D
 Acq: 03 Apr 2023 18:49

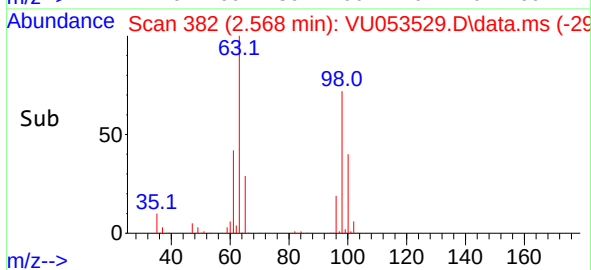
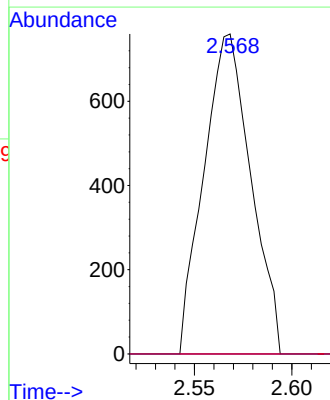
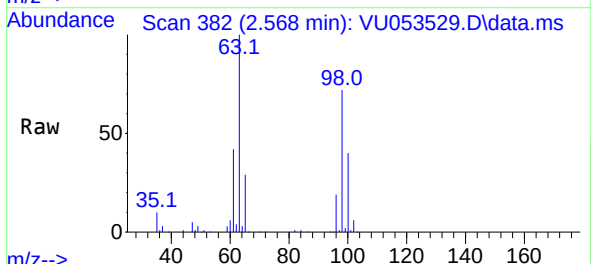
Instrument :
 MSVOA_U
 ClientSampleId :
 PMW-5(20230329)

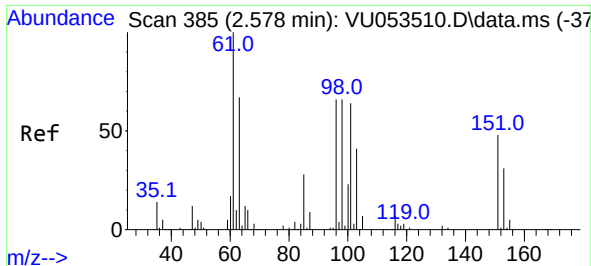
Tgt Ion: 62 Resp: 212475
 Ion Ratio Lower Upper
 62 100
 64 32.5 23.2 43.0



#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.692 ug/L
 RT: 2.568 min Scan# 382
 Delta R.T. -0.010 min
 Lab File: VU053529.D
 Acq: 03 Apr 2023 18:49

Tgt Ion: 101 Resp: 1278
 Ion Ratio Lower Upper
 101 100
 85 0.0 32.6 48.8#
 151 0.0 65.8 98.6#

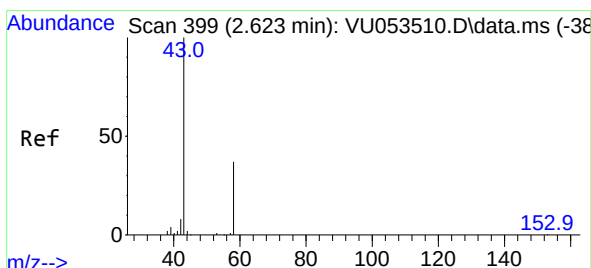
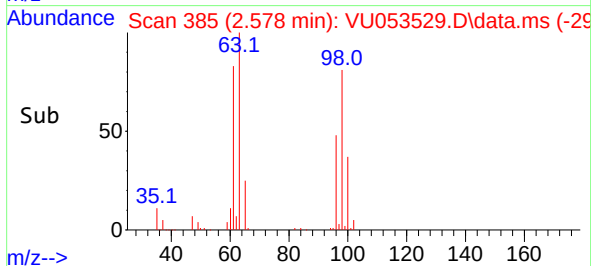
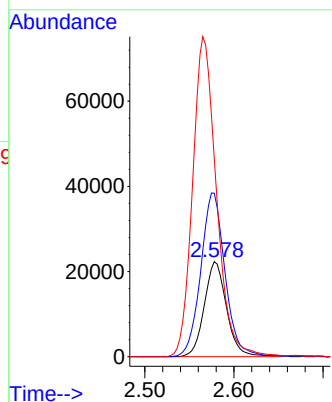
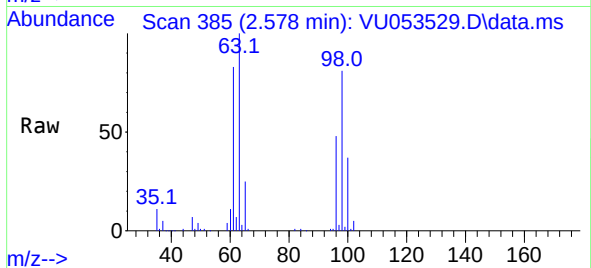




#12
1,1-Dichloroethene
Concen: 23.479 ug/L
RT: 2.578 min Scan# 385
Delta R.T. 0.000 min
Lab File: VU053529.D
Acq: 03 Apr 2023 18:49

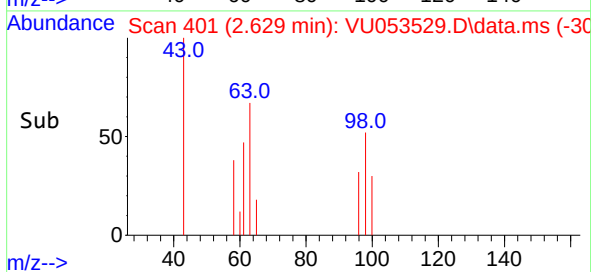
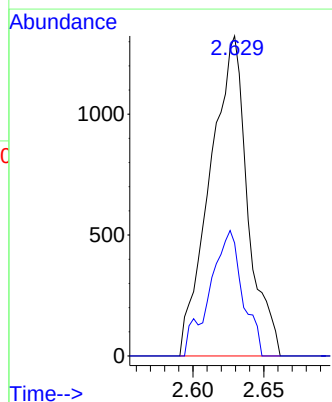
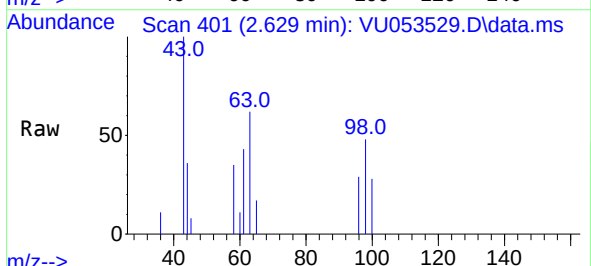
Instrument :
MSVOA_U
ClientSampleId :
PMW-5(20230329)

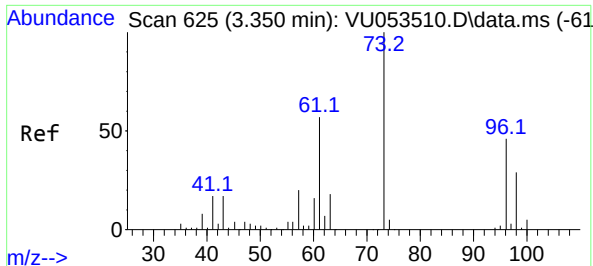
Tgt Ion: 96 Resp: 38662
Ion Ratio Lower Upper
96 100
61 172.1 107.9 200.5
63 208.2 79.1 146.9#



#13
Acetone
Concen: 2.885 ug/L
RT: 2.629 min Scan# 401
Delta R.T. 0.010 min
Lab File: VU053529.D
Acq: 03 Apr 2023 18:49

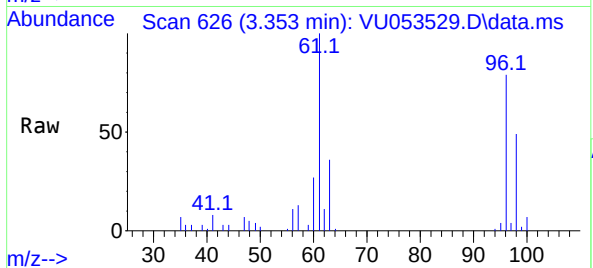
Tgt Ion: 43 Resp: 2453
Ion Ratio Lower Upper
43 100
58 30.9 0.0 70.2



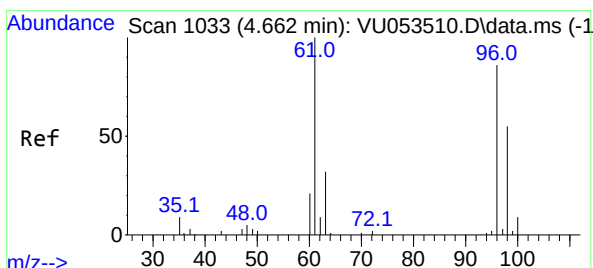
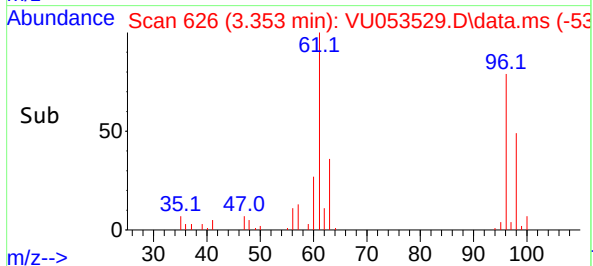
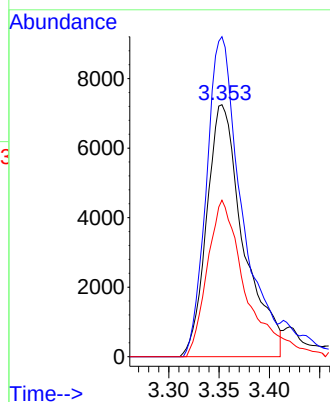


#17
trans-1,2-Dichloroethene
Concen: 11.138 ug/L
RT: 3.353 min Scan# 61
Delta R.T. 0.003 min
Lab File: VU053529.D
Acq: 03 Apr 2023 18:49

Instrument :
MSVOA_U
ClientSampleId :
PMW-5(20230329)

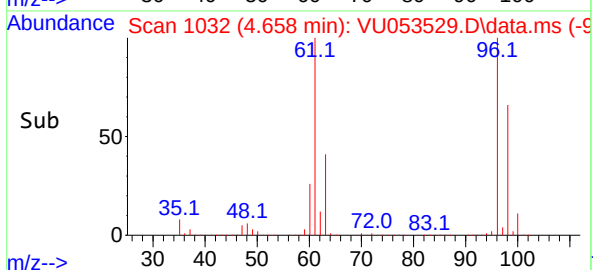
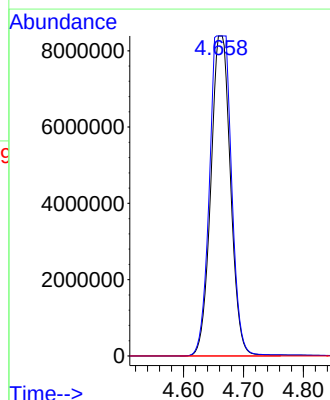
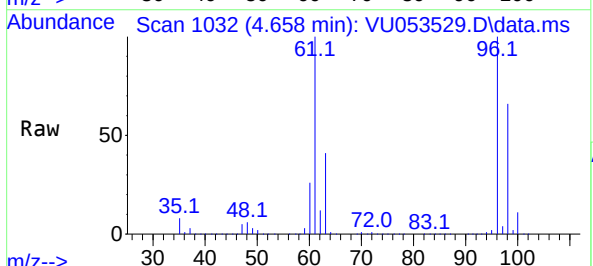


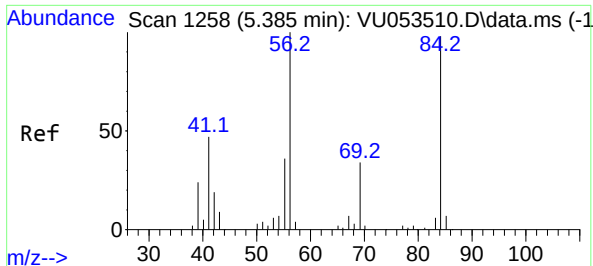
Tgt Ion: 96 Resp: 18432
Ion Ratio Lower Upper
96 100
61 127.0 84.4 156.8
98 62.1 46.0 85.4



#20
cis-1,2-Dichloroethene
Concen: 9989.084 ug/L
RT: 4.658 min Scan# 1032
Delta R.T. -0.003 min
Lab File: VU053529.D
Acq: 03 Apr 2023 18:49

Tgt Ion: 96 Resp:19094360
Ion Ratio Lower Upper
96 100
61 100.0 74.7 138.7
68 0.0 0.0 0.0





#29

Cyclohexane

Concen: 11.874 ug/L

RT: 5.382 min Scan# 11

Delta R.T. -0.003 min

Lab File: VU053529.D

Acq: 03 Apr 2023 18:49

Instrument :

MSVOA_U

ClientSampleId :

PMW-5(20230329)

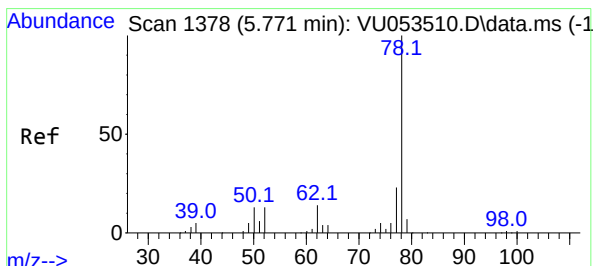
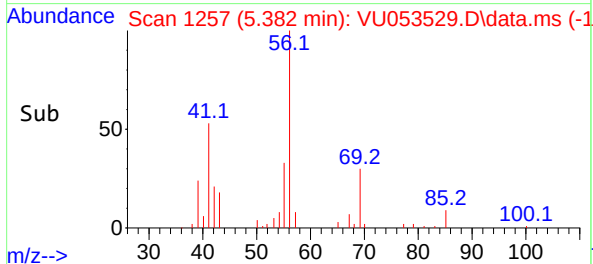
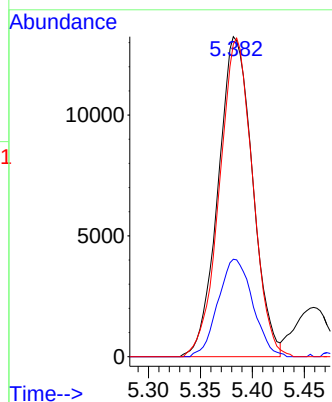
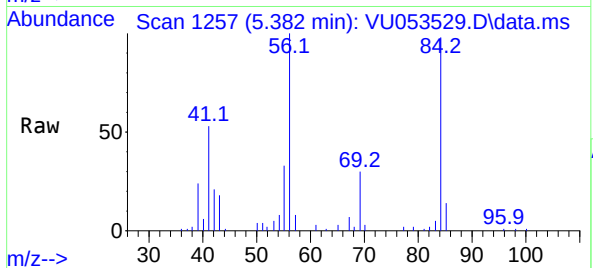
Tgt Ion: 56 Resp: 30419

Ion Ratio Lower Upper

56 100

69 30.7 27.3 40.9

84 95.9 81.3 121.9



#33

Benzene

Concen: 46.467 ug/L

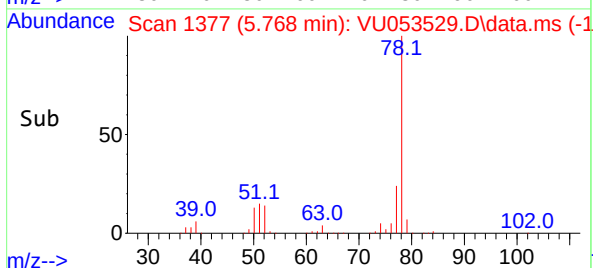
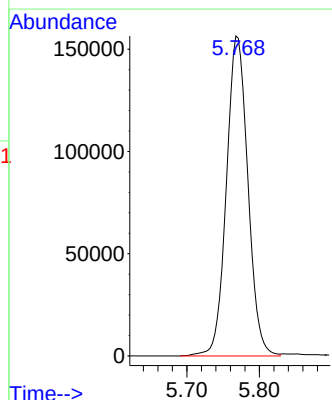
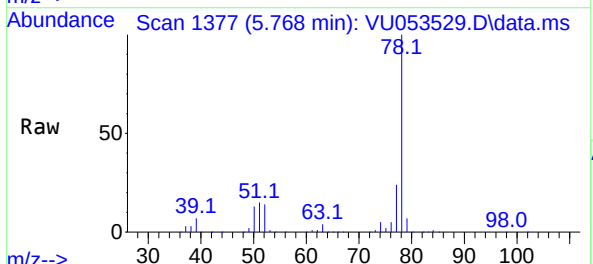
RT: 5.768 min Scan# 1377

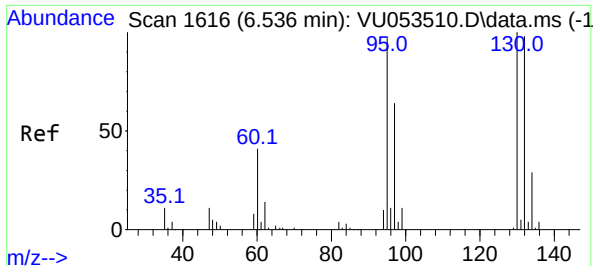
Delta R.T. 0.000 min

Lab File: VU053529.D

Acq: 03 Apr 2023 18:49

Tgt Ion: 78 Resp: 322168



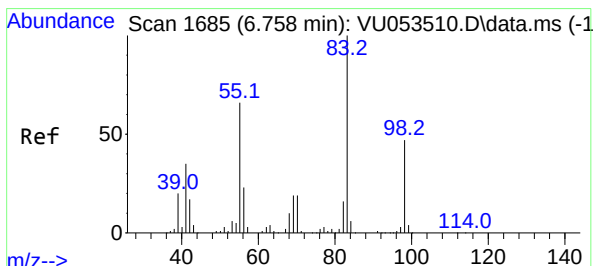
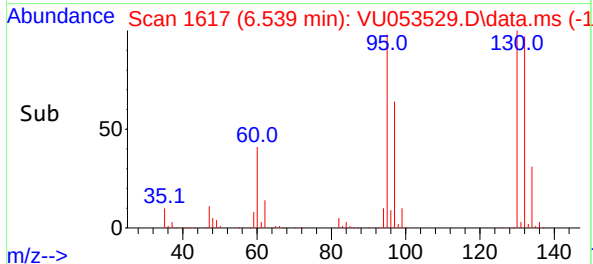
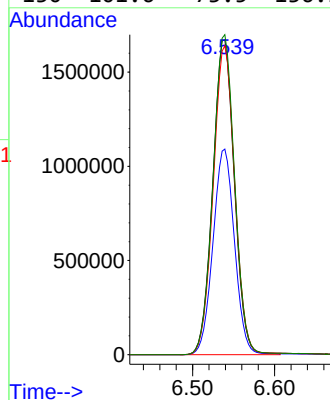
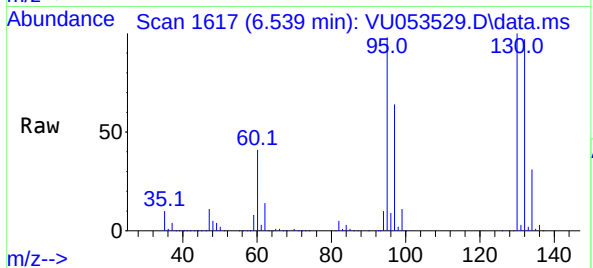


#34
Trichloroethene
Concen: 1459.208 ug/L
RT: 6.539 min Scan# 1616
Delta R.T. 0.003 min
Lab File: VU053529.D
Acq: 03 Apr 2023 18:49

Instrument :
MSVOA_U
ClientSampleId :
PMW-5(20230329)

Tgt Ion: 95 Resp: 3059891

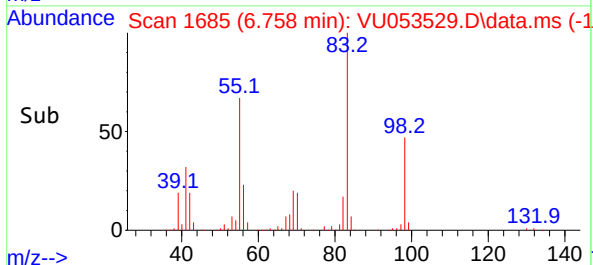
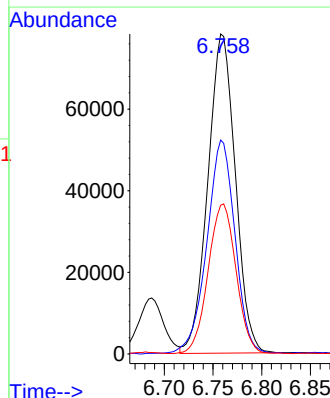
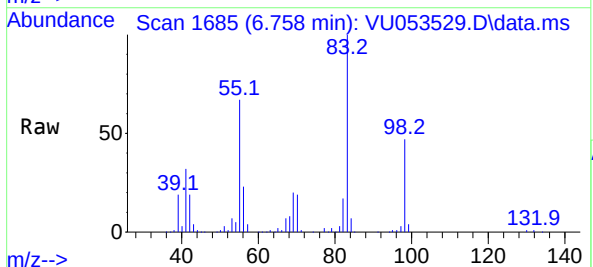
Ion	Ratio	Lower	Upper
95	100		
97	65.3	45.1	83.7
132	98.1	74.1	137.5
130	101.6	73.5	136.5

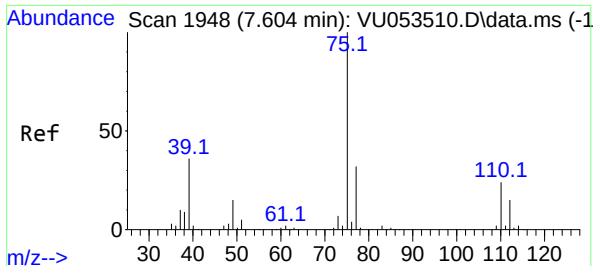


#35
Methylcyclohexane
Concen: 49.889 ug/L
RT: 6.758 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VU053529.D
Acq: 03 Apr 2023 18:49

Tgt Ion: 83 Resp: 153775

Ion	Ratio	Lower	Upper
83	100		
55	69.0	53.0	79.6
98	48.0	39.0	58.6

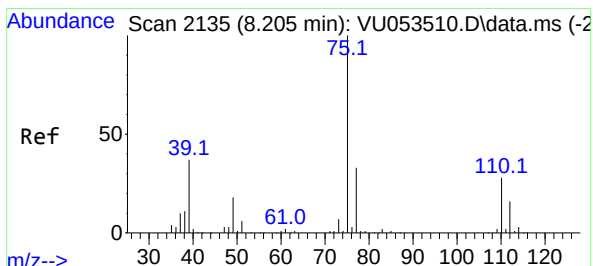
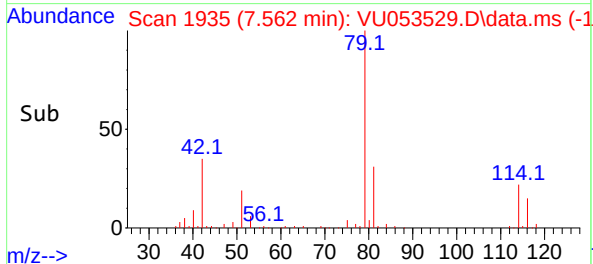
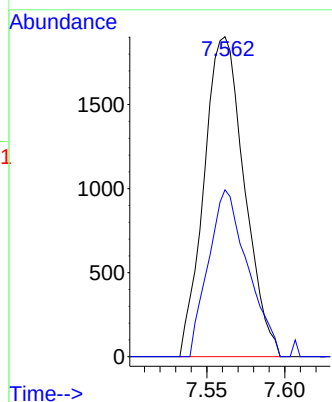
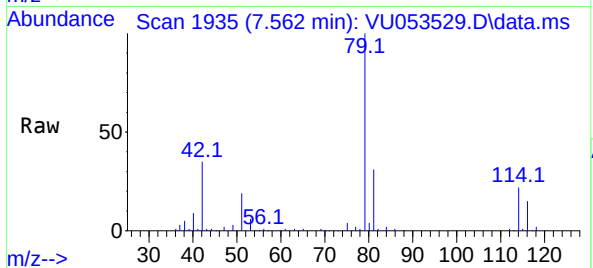




#39
cis-1,3-Dichloropropene
Concen: 1.192 ug/L
RT: 7.562 min Scan# 1948
Delta R.T. -0.039 min
Lab File: VU053529.D
Acq: 03 Apr 2023 18:49

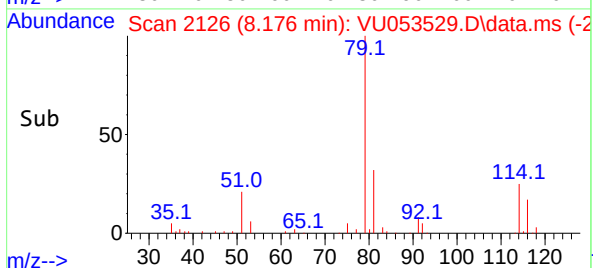
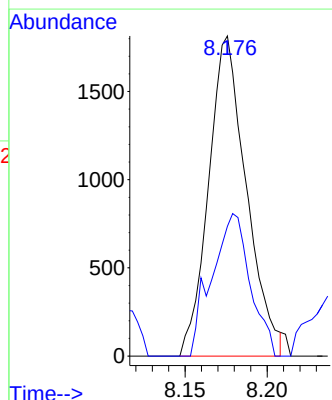
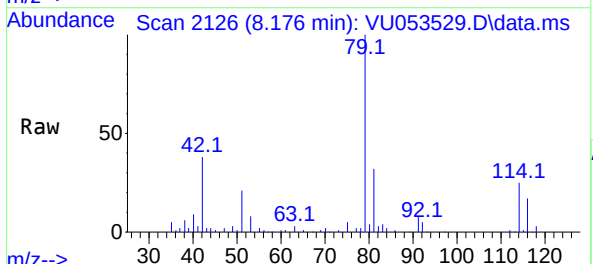
Instrument :
MSVOA_U
ClientSampleId :
PMW-5(20230329)

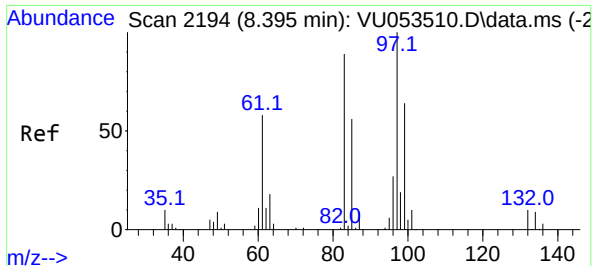
Tgt Ion: 75 Resp: 3430
Ion Ratio Lower Upper
75 100
77 52.2 22.5 41.7#



#44
trans-1,3-Dichloropropene
Concen: 1.066 ug/L
RT: 8.176 min Scan# 2126
Delta R.T. -0.029 min
Lab File: VU053529.D
Acq: 03 Apr 2023 18:49

Tgt Ion: 75 Resp: 2898
Ion Ratio Lower Upper
75 100
77 40.5 21.8 40.4#



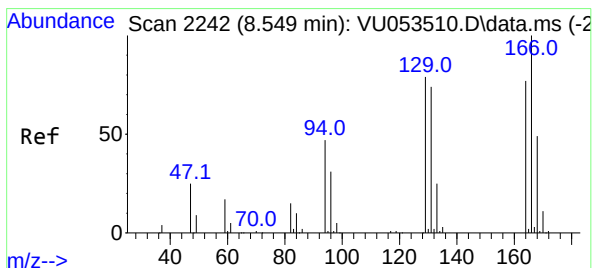
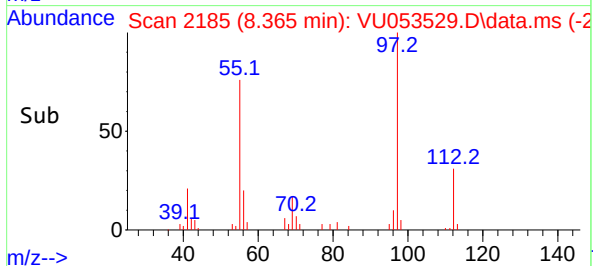
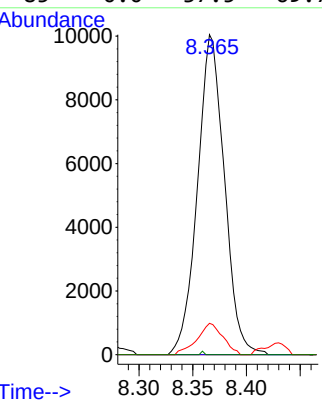
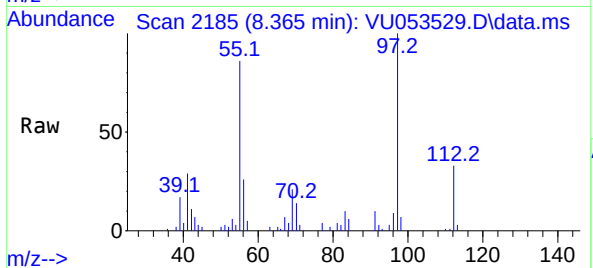


#45
1,1,2-Trichloroethane
Concen: 9.057 ug/L
RT: 8.365 min Scan# 2194
Delta R.T. -0.029 min
Lab File: VU053529.D
Acq: 03 Apr 2023 18:49

Instrument :
MSVOA_U
ClientSampleId :
PMW-5(20230329)

Tgt Ion: 97 Resp: 17505

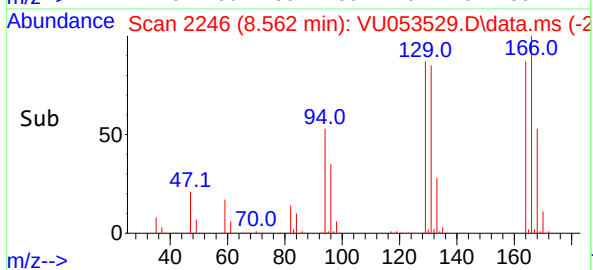
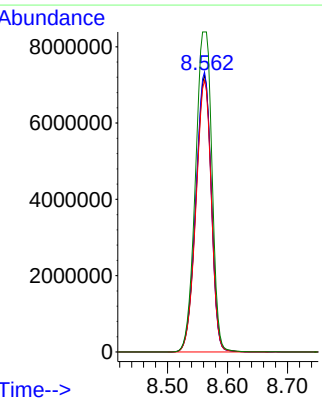
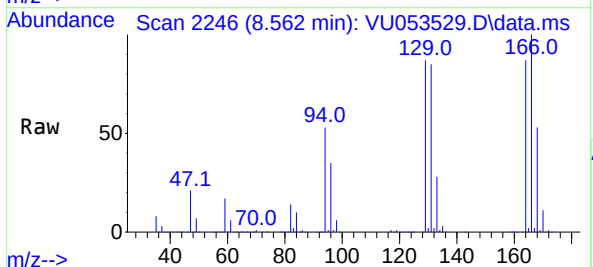
Ion	Ratio	Lower	Upper
97	100		
99	0.0	43.8	81.3#
83	9.8	59.0	109.6#
85	0.0	37.5	69.7#

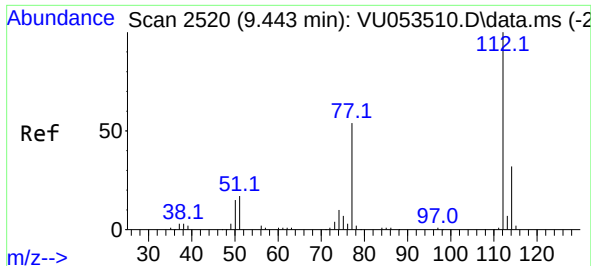


#46
Tetrachloroethene
Concen: 7495.049 ug/L
RT: 8.562 min Scan# 2246
Delta R.T. 0.013 min
Lab File: VU053529.D
Acq: 03 Apr 2023 18:49

Tgt Ion: 164 Resp: 13042311

Ion	Ratio	Lower	Upper
164	100		
129	101.1	64.0	119.0
131	98.1	61.9	115.1
166	115.5	90.6	168.2

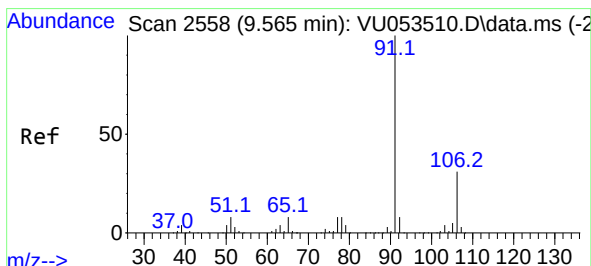
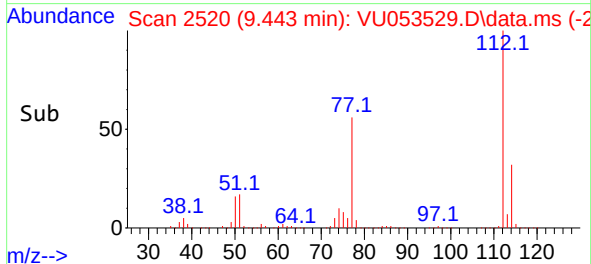
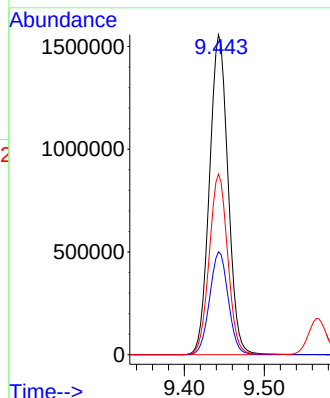
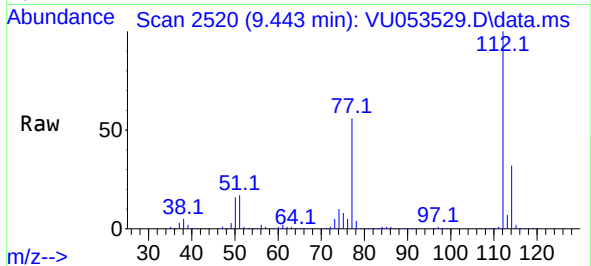




#51
Chlorobenzene
Concen: 463.197 ug/L
RT: 9.443 min Scan# 2520
Delta R.T. 0.000 min
Lab File: VU053529.D
Acq: 03 Apr 2023 18:49

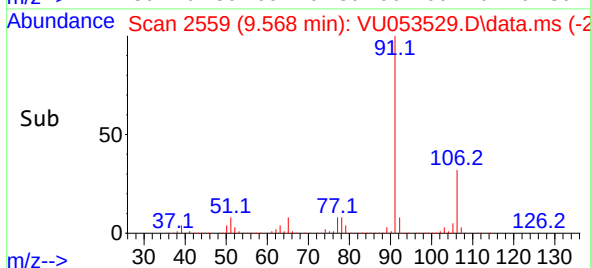
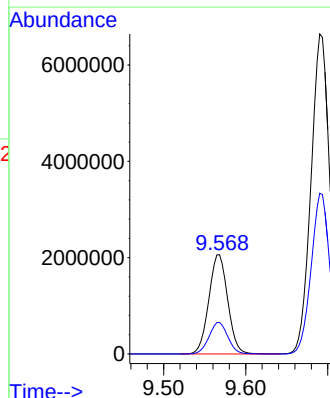
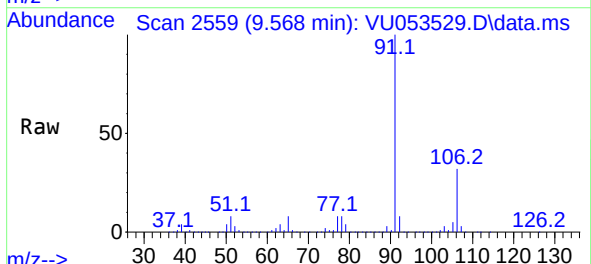
Instrument :
MSVOA_U
ClientSampleId :
PMW-5(20230329)

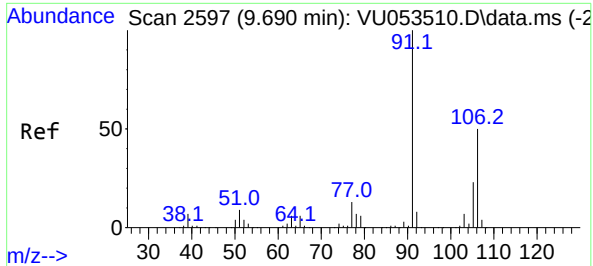
Tgt Ion:112 Resp: 2507519
Ion Ratio Lower Upper
112 100
114 32.2 22.2 41.2
77 56.5 41.3 61.9



#52
Ethylbenzene
Concen: 376.944 ug/L
RT: 9.568 min Scan# 2559
Delta R.T. 0.003 min
Lab File: VU053529.D
Acq: 03 Apr 2023 18:49

Tgt Ion: 91 Resp: 3296914
Ion Ratio Lower Upper
91 100
106 31.8 22.4 41.6

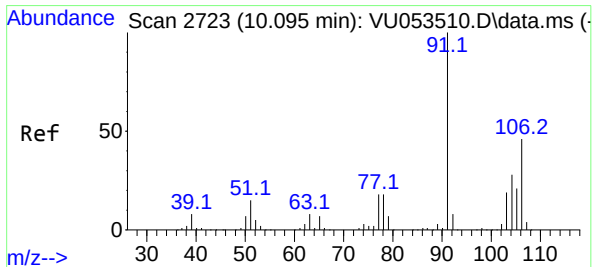
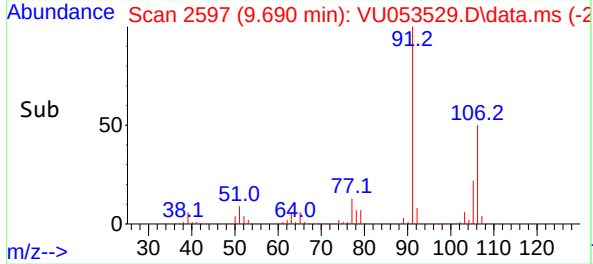
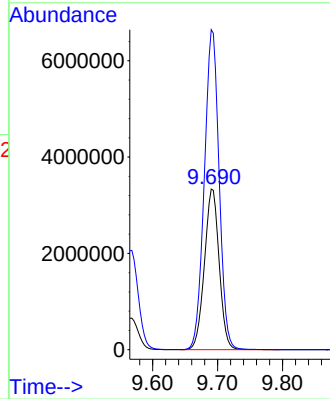
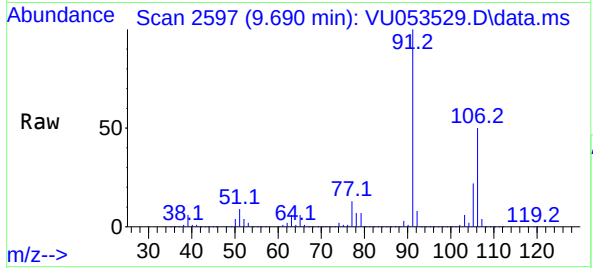




#53
m,p-Xylene
Concen: 1538.543 ug/L
RT: 9.690 min Scan# 2597
Delta R.T. 0.000 min
Lab File: VU053529.D
Acq: 03 Apr 2023 18:49

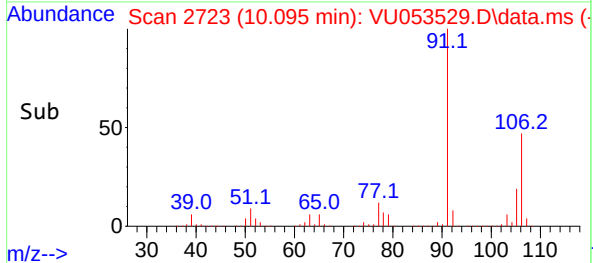
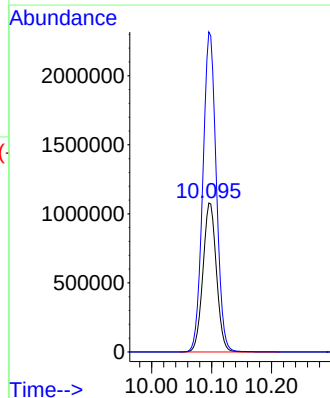
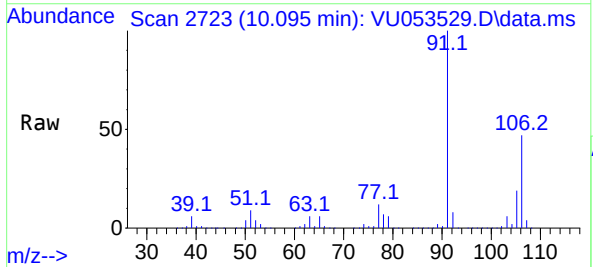
Instrument :
MSVOA_U
ClientSampleId :
PMW-5(20230329)

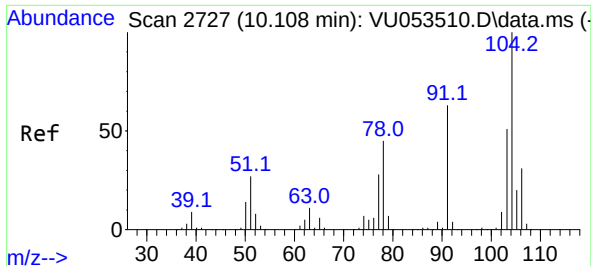
Tgt Ion:106 Resp: 5262907
Ion Ratio Lower Upper
106 100
91 199.1 140.0 260.0



#54
o-xylene
Concen: 500.345 ug/L
RT: 10.095 min Scan# 2723
Delta R.T. 0.000 min
Lab File: VU053529.D
Acq: 03 Apr 2023 18:49

Tgt Ion:106 Resp: 1692191
Ion Ratio Lower Upper
106 100
91 214.9 144.9 269.1

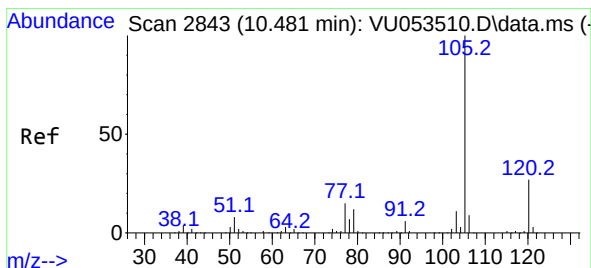
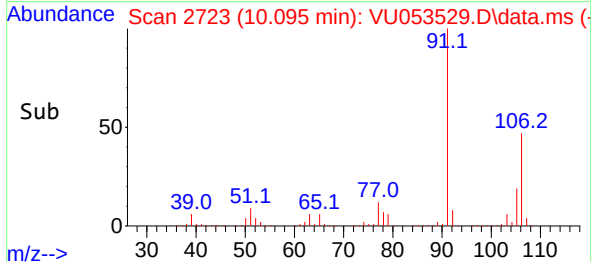
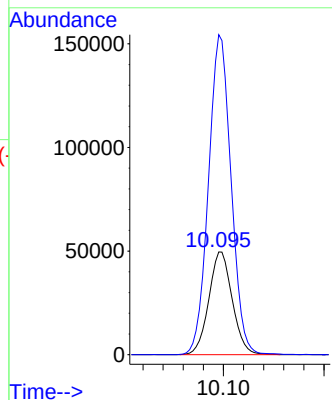
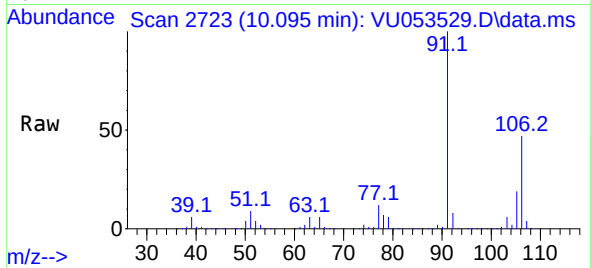




#55
Styrene
Concen: 14.577 ug/L
RT: 10.095 min Scan# 21
Delta R.T. -0.013 min
Lab File: VU053529.D
Acq: 03 Apr 2023 18:49

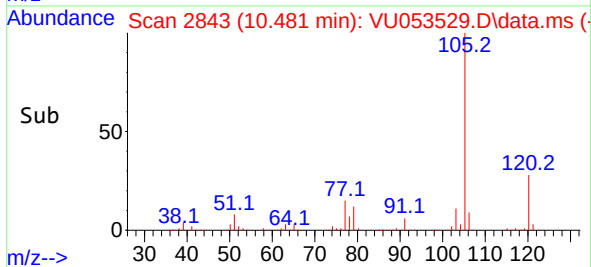
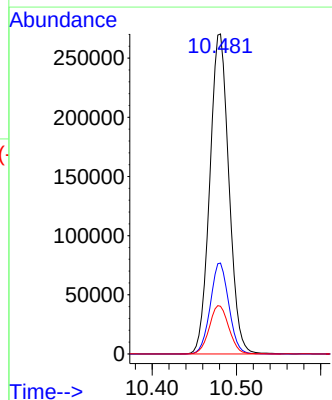
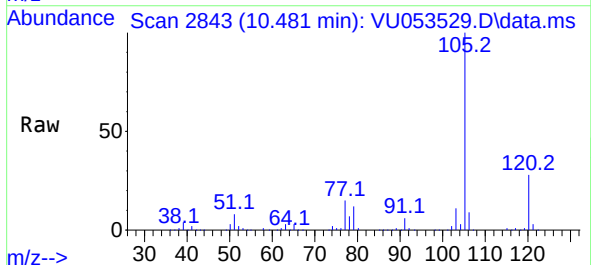
Instrument :
MSVOA_U
ClientSampleId :
PMW-5(20230329)

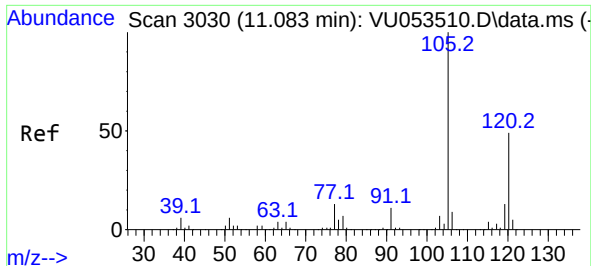
Tgt Ion:104 Resp: 80302
Ion Ratio Lower Upper
104 100
78 311.6 31.3 58.1#



#61
Isopropylbenzene
Concen: 42.021 ug/L
RT: 10.481 min Scan# 2843
Delta R.T. 0.003 min
Lab File: VU053529.D
Acq: 03 Apr 2023 18:49

Tgt Ion:105 Resp: 426448
Ion Ratio Lower Upper
105 100
120 27.5 22.4 33.6
77 15.5 12.1 18.1





#62

1,3,5-Trimethylbenzene

Concen: 95.875 ug/L

RT: 11.086 min Scan# 3030

Delta R.T. 0.003 min

Lab File: VU053529.D

Acq: 03 Apr 2023 18:49

Instrument :

MSVOA_U

ClientSampleId :

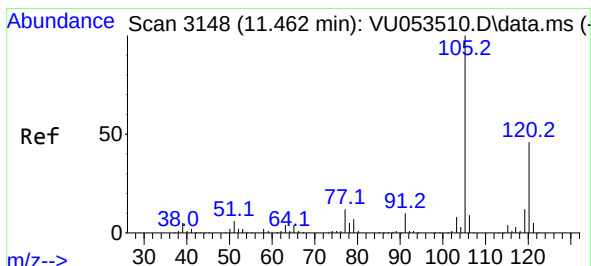
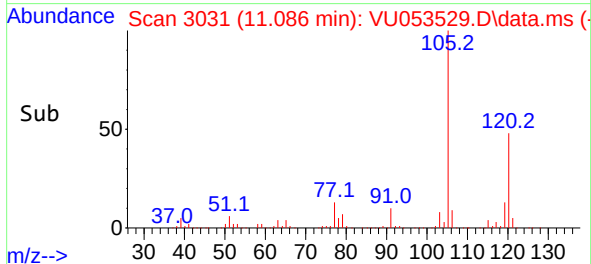
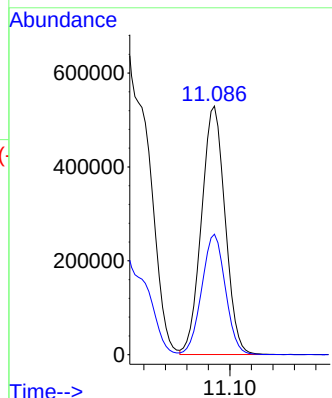
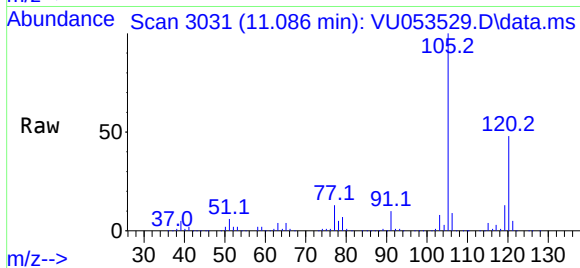
PMW-5(20230329)

Tgt Ion:105 Resp: 808830

Ion Ratio Lower Upper

105 100

120 48.7 39.5 59.3



#63

1,2,4-Trimethylbenzene

Concen: 278.949 ug/L

RT: 11.465 min Scan# 3149

Delta R.T. 0.003 min

Lab File: VU053529.D

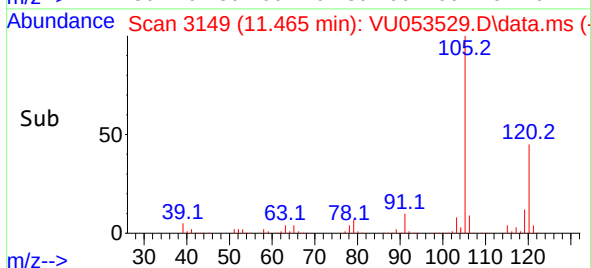
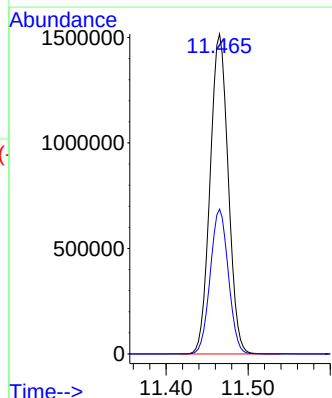
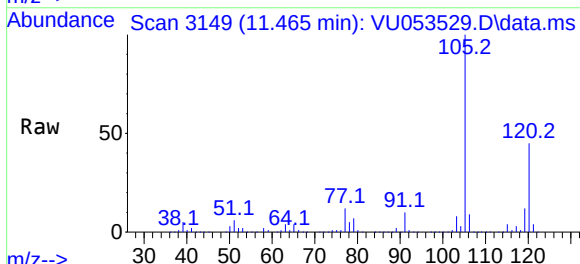
Acq: 03 Apr 2023 18:49

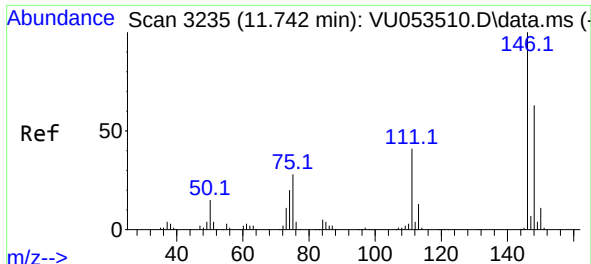
Tgt Ion:105 Resp: 2330803

Ion Ratio Lower Upper

105 100

120 45.2 37.5 56.3

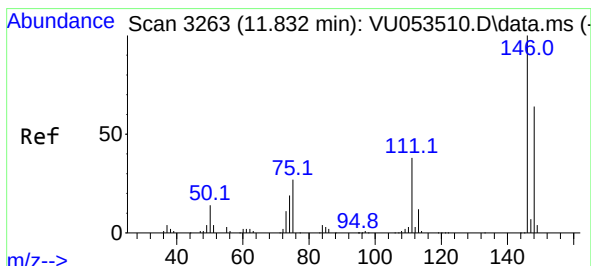
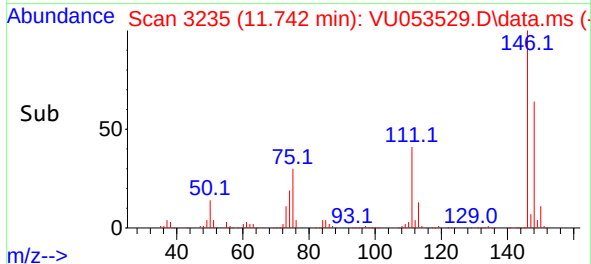
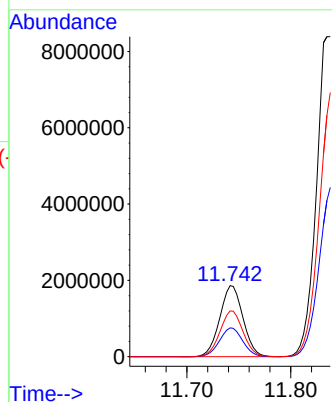
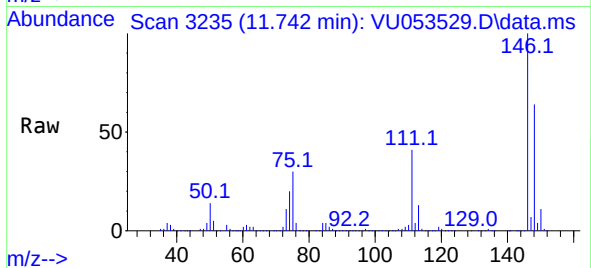




#64
1,3-Dichlorobenzene
Concen: 544.246 ug/L
RT: 11.742 min Scan# 3235
Delta R.T. 0.000 min
Lab File: VU053529.D
Acq: 03 Apr 2023 18:49

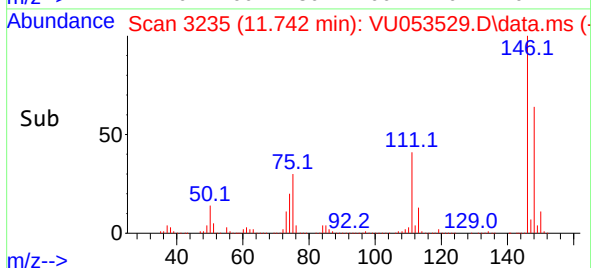
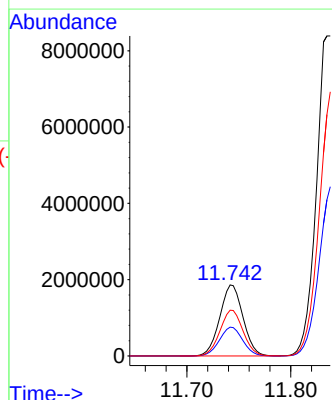
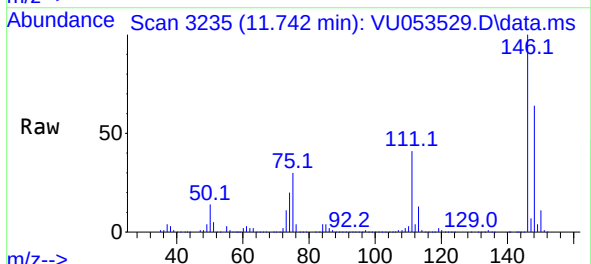
Instrument :
MSVOA_U
ClientSampleId :
PMW-5(20230329)

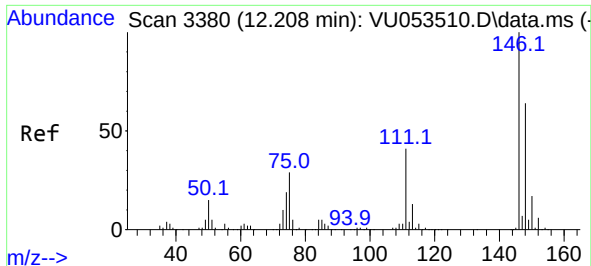
Tgt Ion:146 Resp: 2886053
Ion Ratio Lower Upper
146 100
111 40.6 25.7 47.7
148 64.4 44.2 82.2



#65
1,4-Dichlorobenzene
Concen: 533.999 ug/L
RT: 11.742 min Scan# 3235
Delta R.T. -0.090 min
Lab File: VU053529.D
Acq: 03 Apr 2023 18:49

Tgt Ion:146 Resp: 2886053
Ion Ratio Lower Upper
146 100
111 40.6 25.1 46.5
148 64.4 44.3 82.3





#67

1,2-Dichlorobenzene

Concen: 956.832 ug/L

RT: 12.211 min Scan# 31

Delta R.T. 0.003 min

Lab File: VU053529.D

Acq: 03 Apr 2023 18:49

Instrument :

MSVOA_U

ClientSampleId :

PMW-5(20230329)

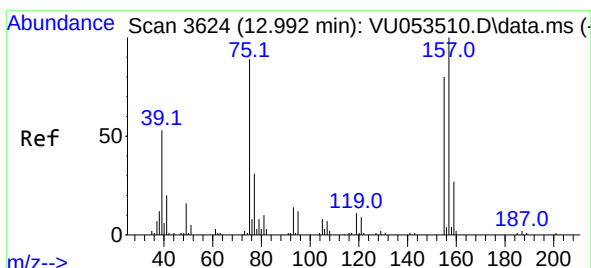
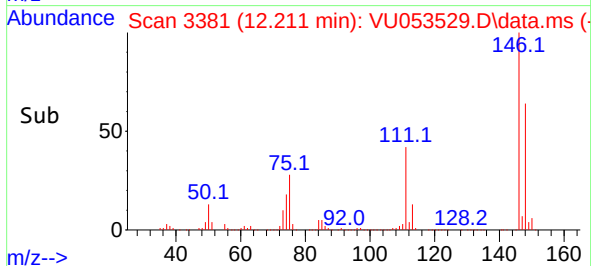
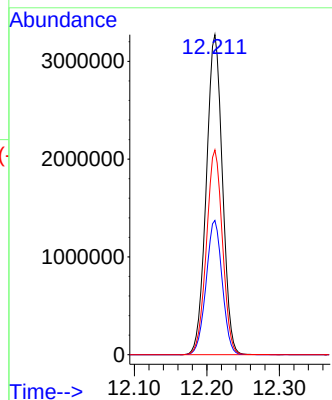
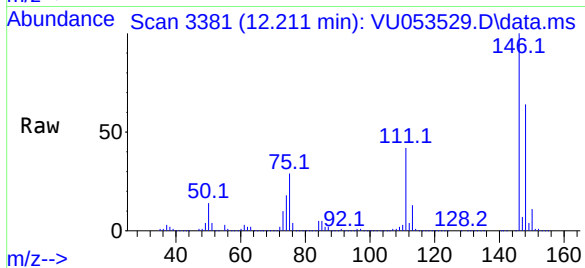
Tgt Ion:146 Resp: 5056945

Ion Ratio Lower Upper

146 100

111 42.0 31.5 47.3

148 64.0 51.6 77.4



#68

1,2-Dibromo-3-chloropropane

Concen: 4.776 ug/L

RT: 12.967 min Scan# 3616

Delta R.T. -0.022 min

Lab File: VU053529.D

Acq: 03 Apr 2023 18:49

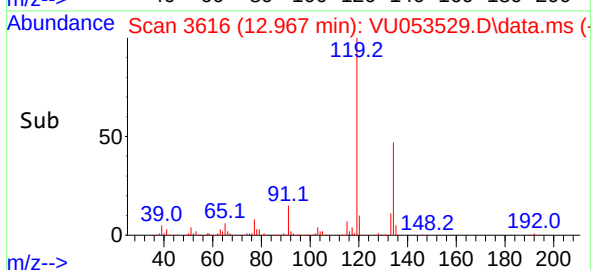
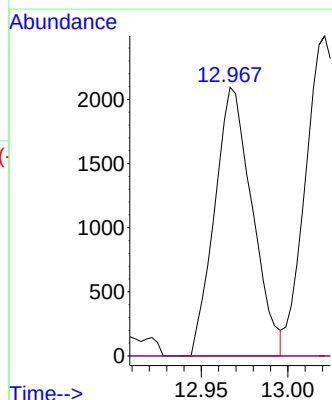
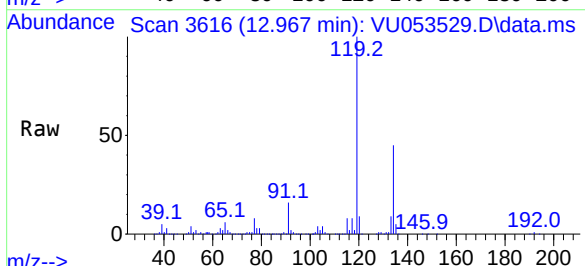
Tgt Ion: 75 Resp: 3169

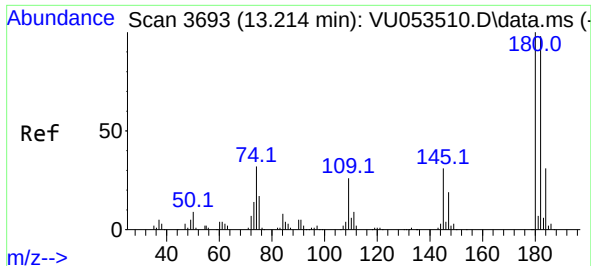
Ion Ratio Lower Upper

75 100

155 0.0 79.9 119.9#

157 0.0 100.8 151.2#





#69

1,3,5-Trichlorobenzene

Concen: 31.529 ug/L

RT: 13.217 min Scan# 30

Delta R.T. 0.003 min

Lab File: VU053529.D

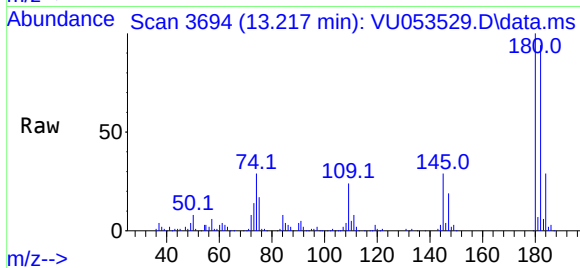
Acq: 03 Apr 2023 18:49

Instrument :

MSVOA_U

ClientSampleId :

PMW-5(20230329)



Tgt Ion:180 Resp: 123811

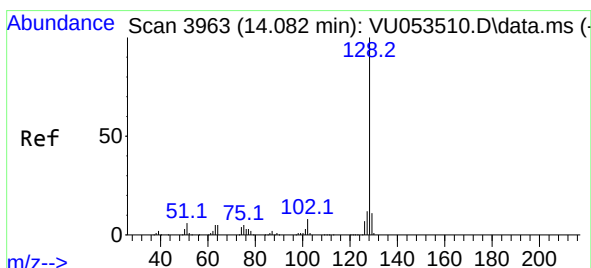
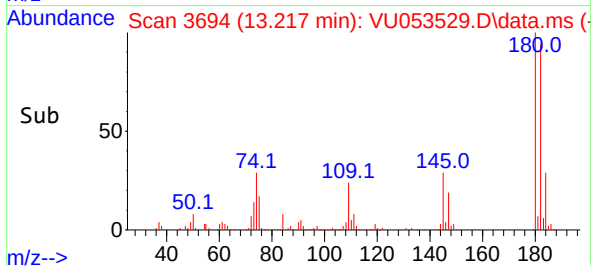
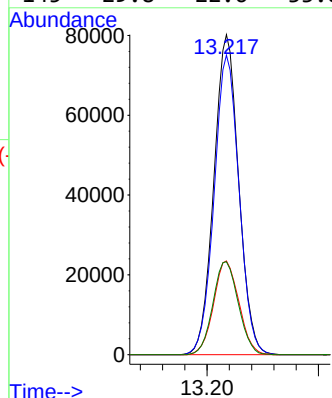
Ion Ratio Lower Upper

180 100

182 94.1 75.6 113.4

184 30.0 24.2 36.2

145 29.8 22.6 33.8



#71

Naphthalene

Concen: 153.054 ug/L

RT: 14.086 min Scan# 3964

Delta R.T. 0.006 min

Lab File: VU053529.D

Acq: 03 Apr 2023 18:49

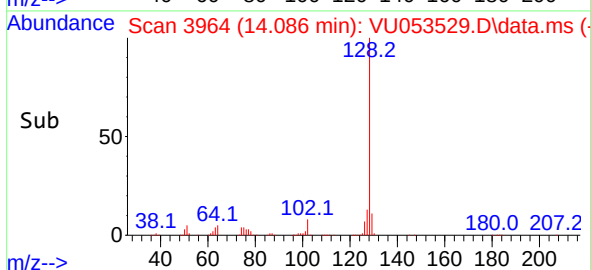
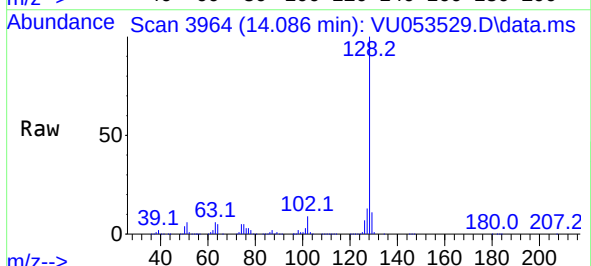
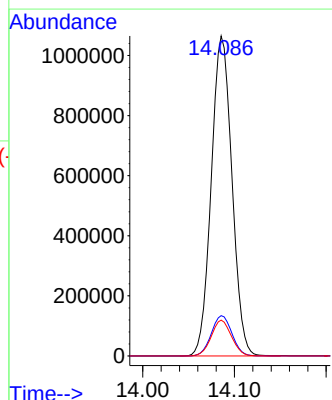
Tgt Ion:128 Resp: 1667894

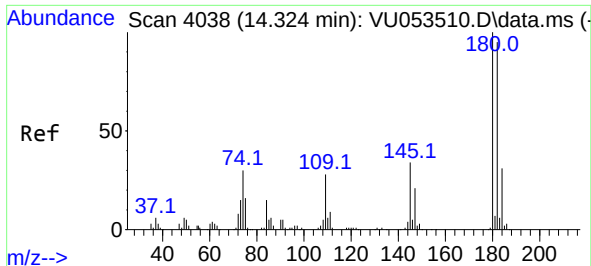
Ion Ratio Lower Upper

128 100

127 12.6 10.2 15.2

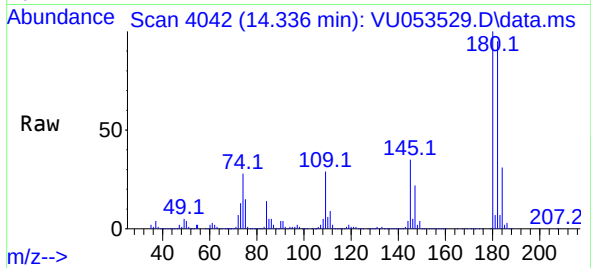
129 11.0 8.6 12.8





#72
 1,2,3-Trichlorobenzene
 Concen: 3809.832 ug/L
 RT: 14.336 min Scan# 40
 Delta R.T. 0.013 min
 Lab File: VU053529.D
 Acq: 03 Apr 2023 18:49

Instrument :
 MSVOA_U
 ClientSampleId :
 PMW-5(20230329)



Tgt Ion:180 Resp:13854280

Ion	Ratio	Lower	Upper
180	100		
182	95.2	77.0	115.6
145	34.5	25.4	38.0

