

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU040423\
 Data File : VU053567.D
 Acq On : 04 Apr 2023 17:31
 Operator : JC/MD
 Sample : 02158-23
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PMW-3(20230331)

Quant Time: Apr 04 23:13:09 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)

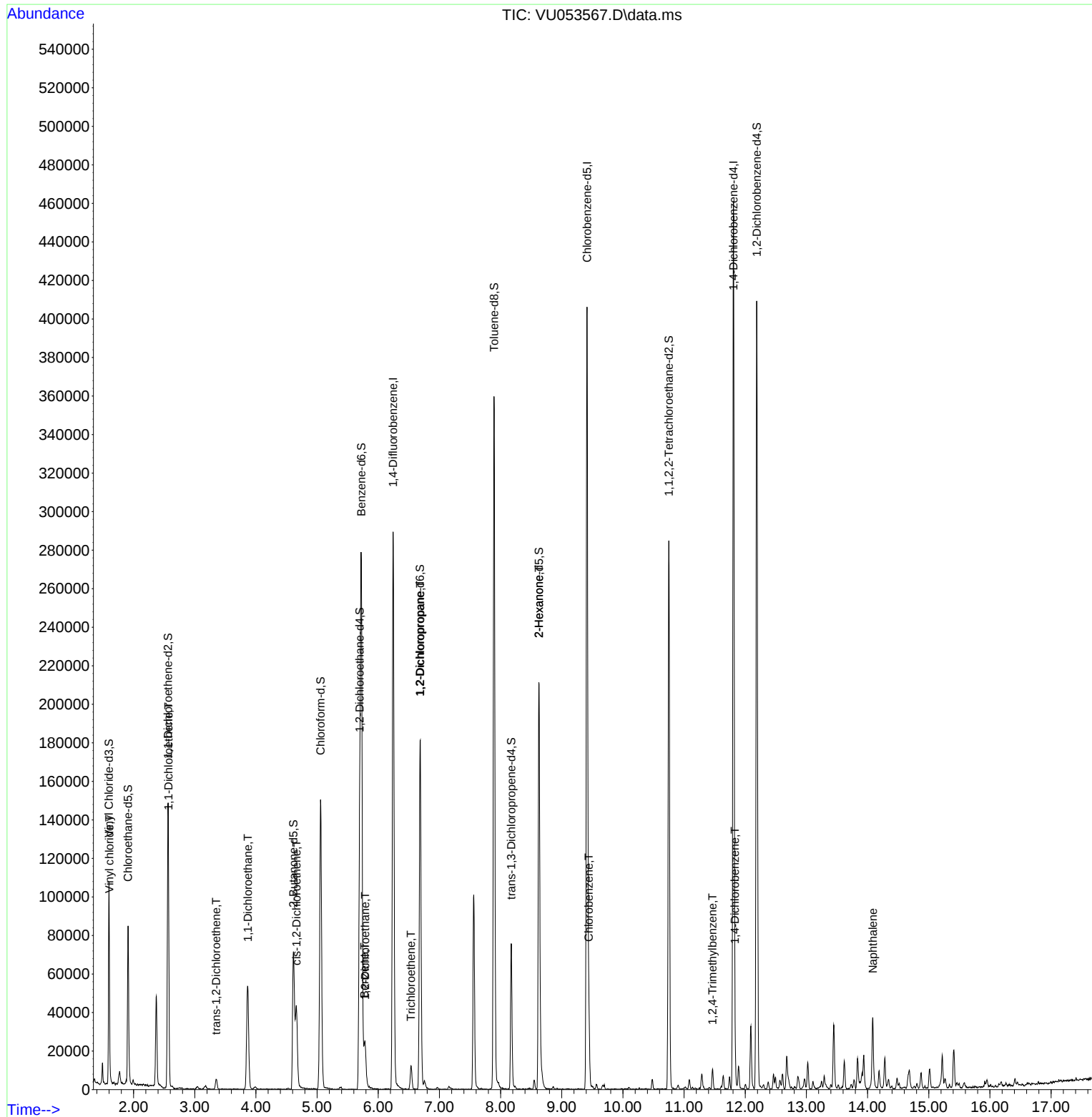
Internal Standards						
1) 1,4-Difluorobenzene	6.243	114	249852	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.414	117	237933	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.809	152	124320	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	69020	35.477	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery =	70.960%		
7) Chloroethane-d5	1.909	69	61916	41.276	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	82.560%		
11) 1,1-Dichloroethene-d2	2.565	63	86378	28.682	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	57.360%#		
21) 2-Butanone-d5	4.613	46	103037	116.976	ug/L	0.00
Spiked Amount 100.000	Range 40 - 130		Recovery =	116.980%		
24) Chloroform-d	5.057	84	137127	42.619	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	85.240%		
26) 1,2-Dichloroethane-d4	5.697	65	89322	46.981	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	93.960%		
32) Benzene-d6	5.722	84	273663	42.610	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	85.220%		
36) 1,2-Dichloropropane-d6	6.684	67	89262	45.471	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery =	90.940%		
41) Toluene-d8	7.893	98	253766	39.754	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	79.500%#		
43) trans-1,3-Dichloroprop...	8.176	79	43225	42.657	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	85.320%		
47) 2-Hexanone-d5	8.626	63	77499	115.676	ug/L	0.00
Spiked Amount 100.000	Range 45 - 130		Recovery =	115.680%		
56) 1,1,2,2-Tetrachloroeth...	10.751	84	136053	49.173	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery =	98.340%		
66) 1,2-Dichlorobenzene-d4	12.188	152	110027	42.400	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	84.800%		
Target Compounds						Qvalue
5) Vinyl chloride	1.604	62	5680	2.941	ug/L #	76
12) 1,1-Dichloroethene	2.571	96	1216	0.793	ug/L #	1
17) trans-1,2-Dichloroethene	3.350	96	2325	1.509	ug/L	82
19) 1,1-Dichloroethane	3.867	63	61881	24.245	ug/L	98
20) cis-1,2-Dichloroethene	4.665	96	21757	12.225	ug/L	95
27) 1,2-Dichloroethane	5.787	62	11757	5.484	ug/L	97
33) Benzene	5.774	78	15772	2.544	ug/L	100
34) Trichloroethene	6.536	95	3950	2.107	ug/L	83
37) 1,2-Dichloropropane	6.687	63	9337	5.932	ug/L #	86
48) 2-Hexanone	8.626	43	8327	6.018	ug/L #	72
51) Chlorobenzene	9.443	112	19099	3.946	ug/L	90
63) 1,2,4-Trimethylbenzene	11.465	105	6301	1.041	ug/L	92
65) 1,4-Dichlorobenzene	11.832	146	6351	1.622	ug/L	88
71) Naphthalene	14.085	128	33169	4.203	ug/L	98

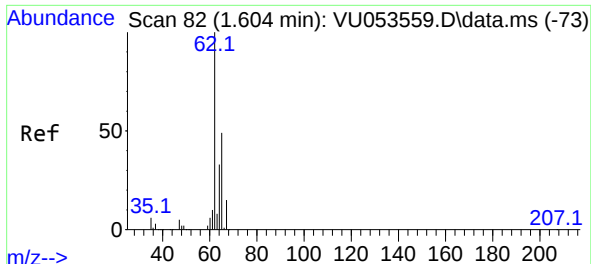
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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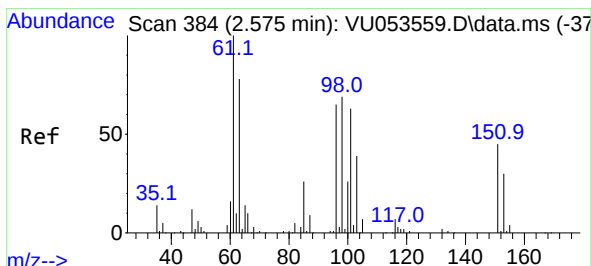
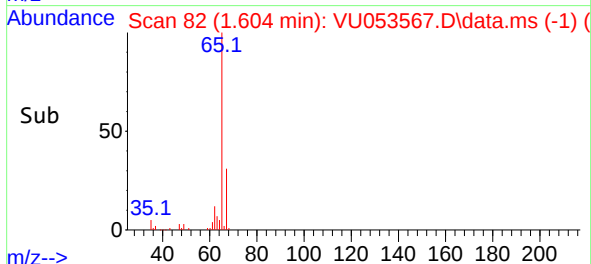
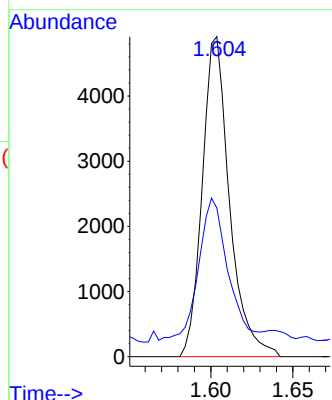
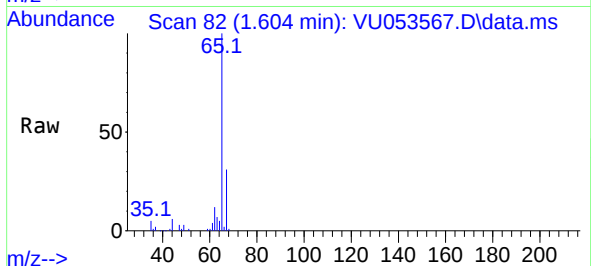




#5
 Vinyl chloride
 Concen: 2.941 ug/L
 RT: 1.604 min Scan# 81
 Delta R.T. 0.000 min
 Lab File: VU053567.D
 Acq: 04 Apr 2023 17:31

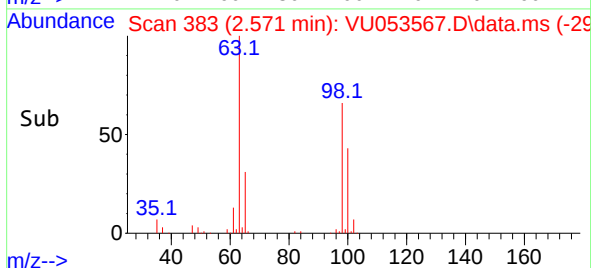
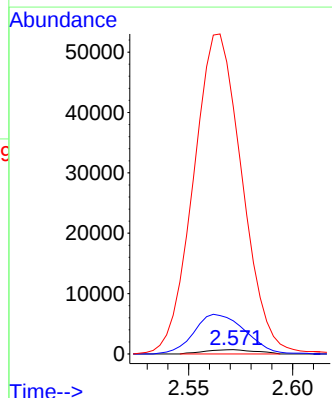
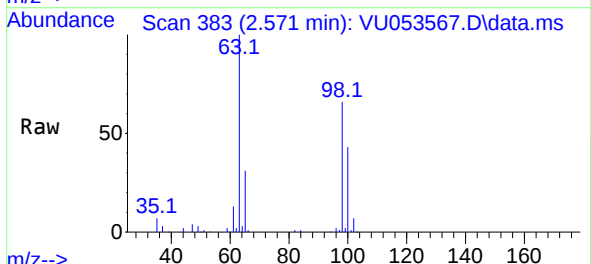
Instrument :
 MSVOA_U
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 PMW-3(20230331)

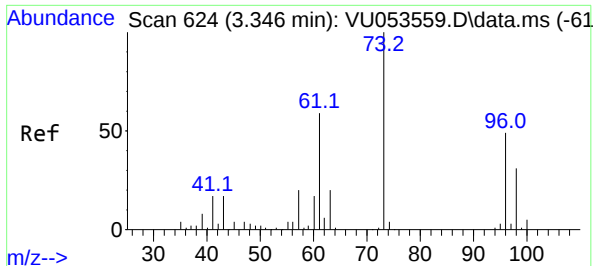
Tgt Ion: 62 Resp: 5680
 Ion Ratio Lower Upper
 62 100
 64 46.5 23.2 43.0#



#12
 1,1-Dichloroethene
 Concen: 0.793 ug/L
 RT: 2.571 min Scan# 383
 Delta R.T. -0.006 min
 Lab File: VU053567.D
 Acq: 04 Apr 2023 17:31

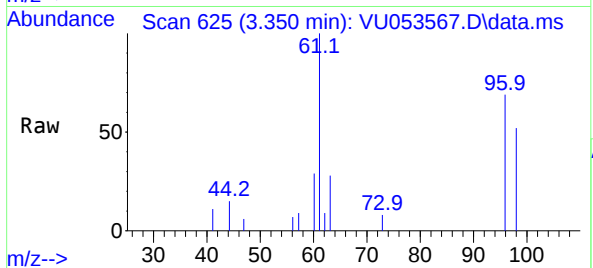
Tgt Ion: 96 Resp: 1216
 Ion Ratio Lower Upper
 96 100
 61 764.5 107.9 200.5#
 63 5693.5 79.1 146.9#



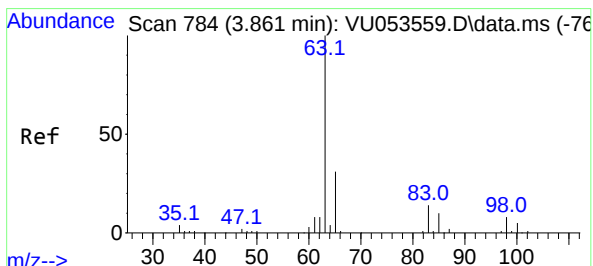
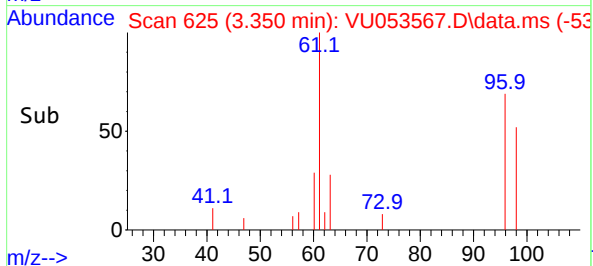
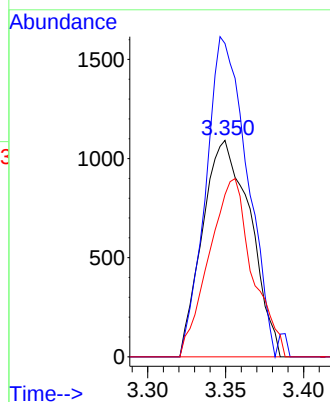


#17
trans-1,2-Dichloroethene
Concen: 1.509 ug/L
RT: 3.350 min Scan# 61
Delta R.T. -0.000 min
Lab File: VU053567.D
Acq: 04 Apr 2023 17:31

Instrument :
MSVOA_U
ClientSampleId :
PMW-3(20230331)

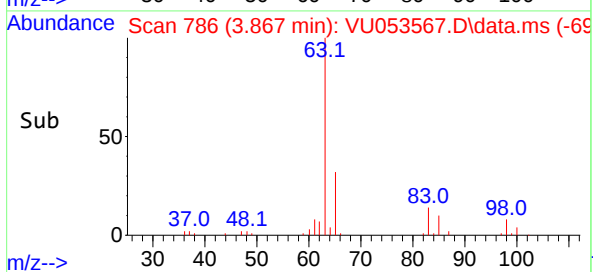
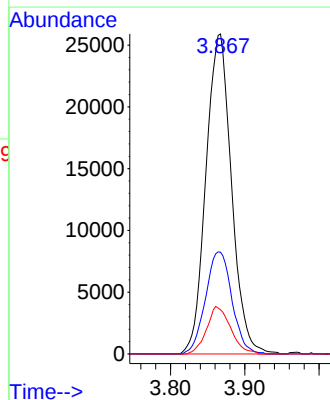
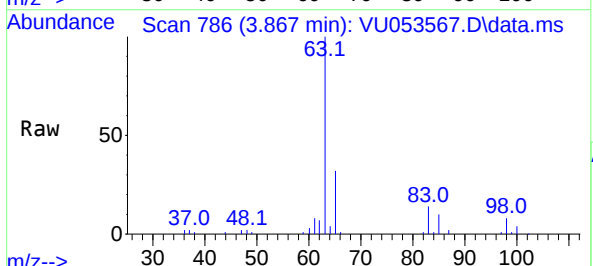


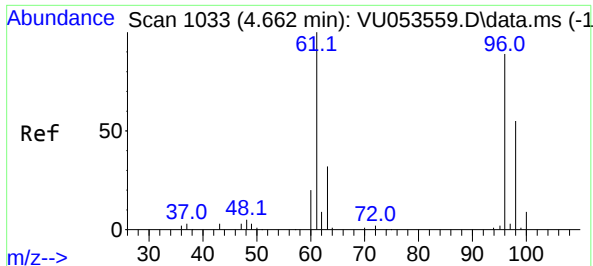
Tgt Ion: 96 Resp: 2325
Ion Ratio Lower Upper
96 100
61 144.7 84.4 156.8
98 74.9 46.0 85.4



#19
1,1-Dichloroethane
Concen: 24.245 ug/L
RT: 3.867 min Scan# 786
Delta R.T. 0.003 min
Lab File: VU053567.D
Acq: 04 Apr 2023 17:31

Tgt Ion: 63 Resp: 61881
Ion Ratio Lower Upper
63 100
65 31.8 22.0 41.0
83 13.8 10.8 20.0

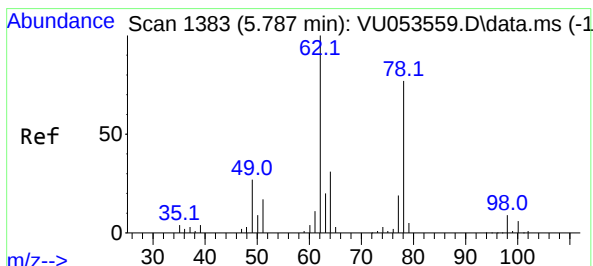
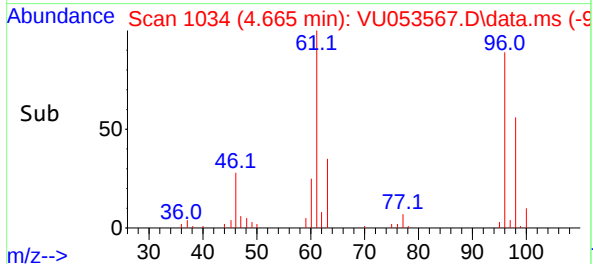
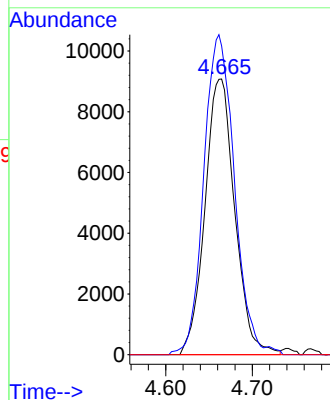
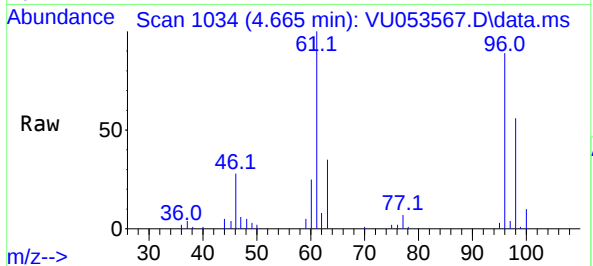




#20
cis-1,2-Dichloroethene
Concen: 12.225 ug/L
RT: 4.665 min Scan# 1033
Delta R.T. 0.003 min
Lab File: VU053567.D
Acq: 04 Apr 2023 17:31

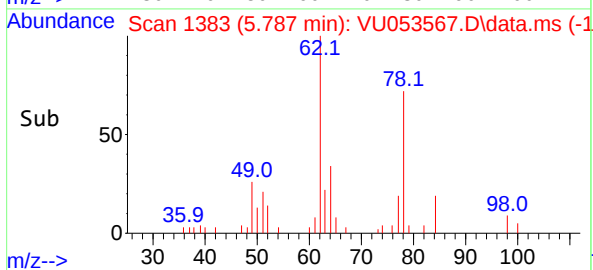
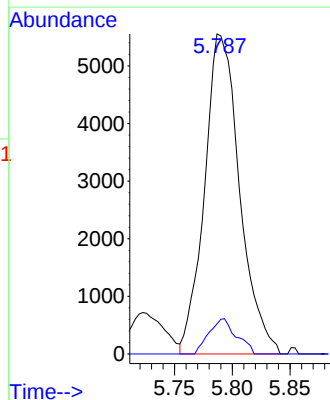
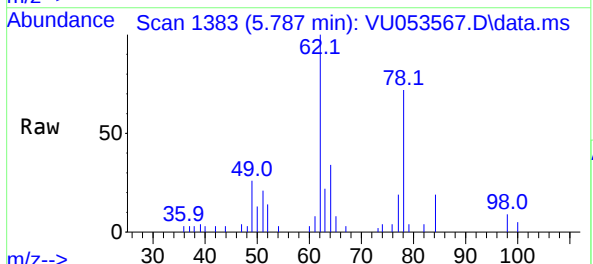
Instrument :
MSVOA_U
ClientSampleId :
PMW-3(20230331)

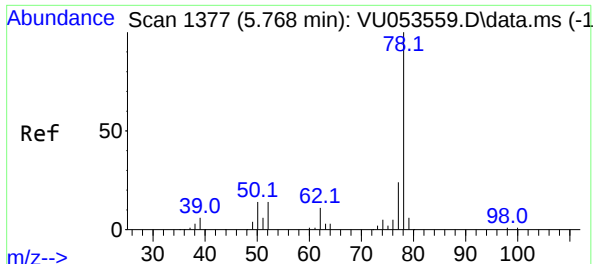
Tgt Ion: 96 Resp: 21757
Ion Ratio Lower Upper
96 100
61 111.9 74.7 138.7
68 0.0 0.0 0.0



#27
1,2-Dichloroethane
Concen: 5.484 ug/L
RT: 5.787 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VU053567.D
Acq: 04 Apr 2023 17:31

Tgt Ion: 62 Resp: 11757
Ion Ratio Lower Upper
62 100
98 9.4 8.3 12.5





Benzene

Concen: 2.544 ug/L

RT: 5.774 min Scan# 1

Delta R.T. 0.006 min

Lab File: VU053567.D

Acq: 04 Apr 2023 17:31

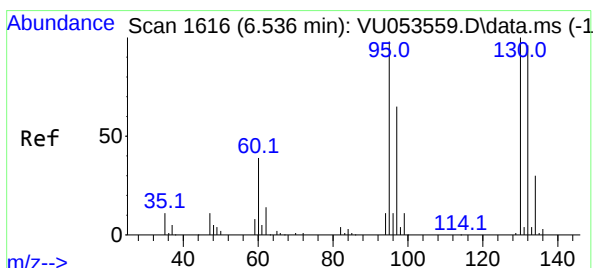
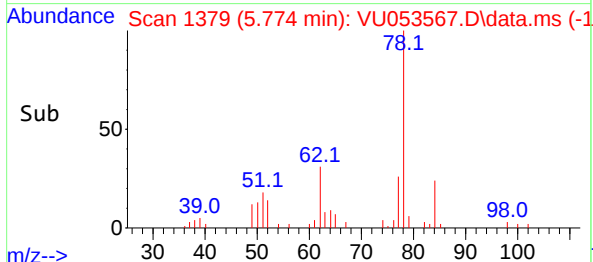
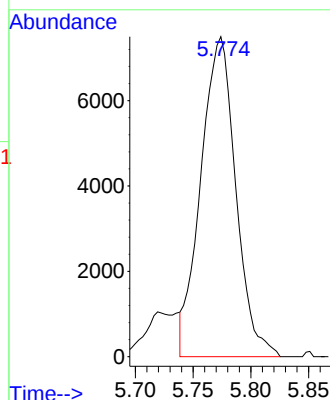
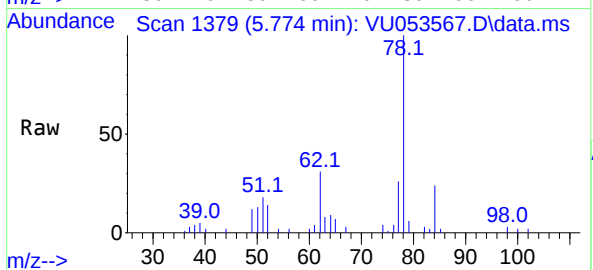
Instrument :

MSVOA_U

ClientSampleId :

PMW-3(20230331)

Tgt Ion: 78 Resp: 15772



Trichloroethene

Concen: 2.107 ug/L

RT: 6.536 min Scan# 1616

Delta R.T. -0.000 min

Lab File: VU053567.D

Acq: 04 Apr 2023 17:31

Tgt Ion: 95 Resp: 3950

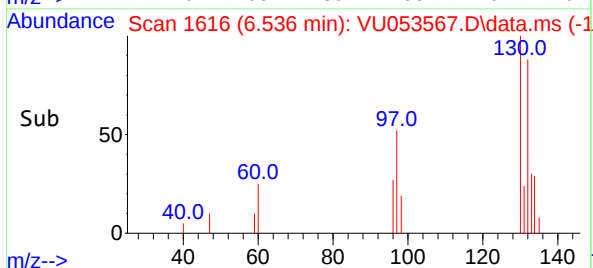
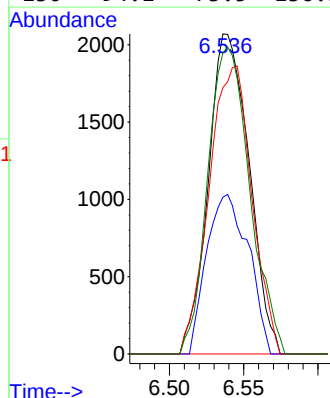
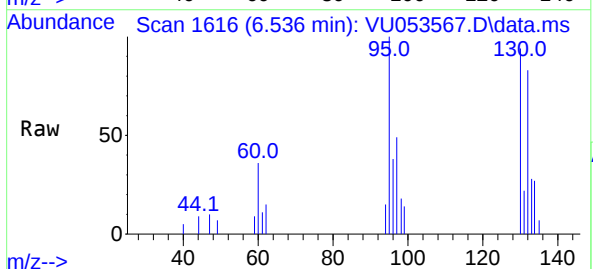
Ion Ratio Lower Upper

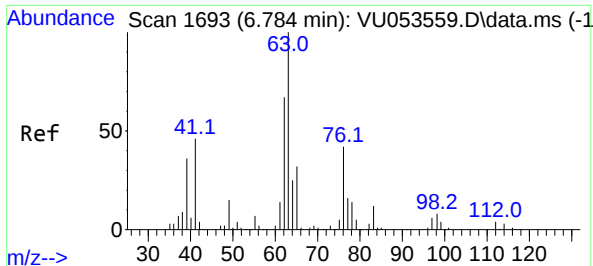
95 100

97 49.0 45.1 83.7

132 83.2 74.1 137.5

130 94.1 73.5 136.5

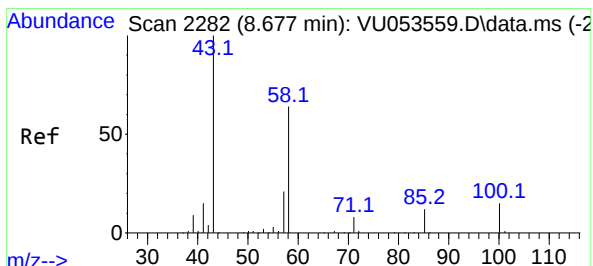
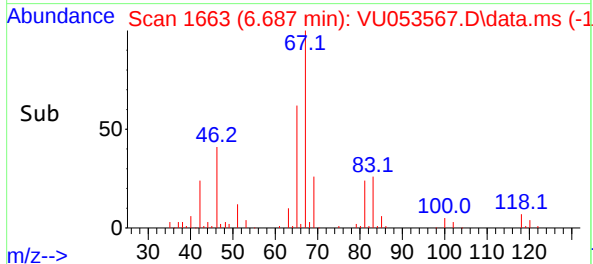
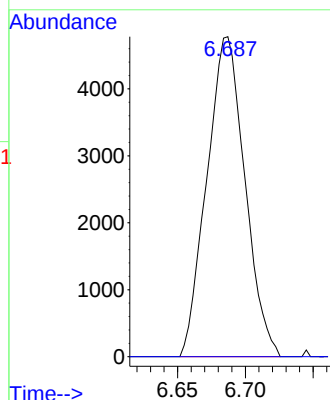
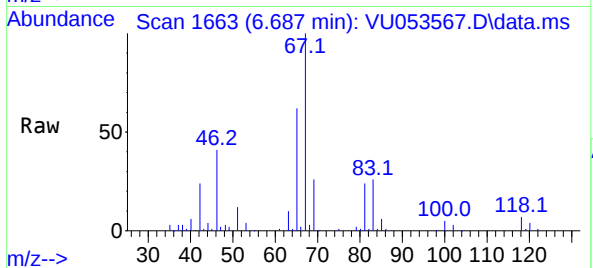




#37
1,2-Dichloropropane
Concen: 5.932 ug/L
RT: 6.687 min Scan# 1
Delta R.T. -0.096 min
Lab File: VU053567.D
Acq: 04 Apr 2023 17:31

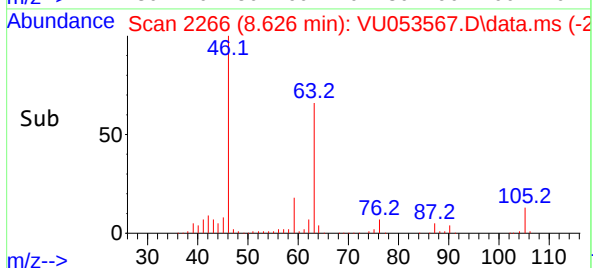
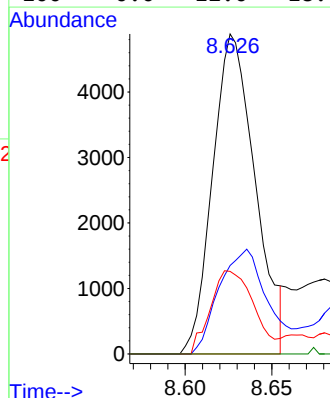
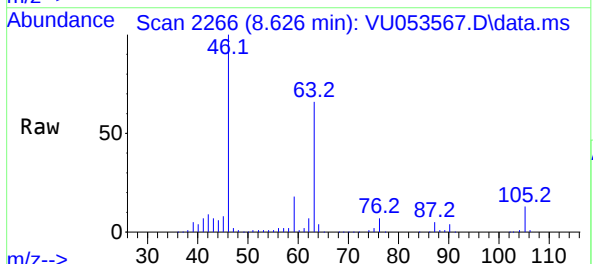
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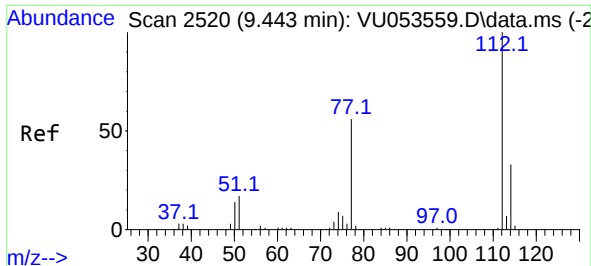
Tgt Ion: 63 Resp: 9337
Ion Ratio Lower Upper
63 100
112 0.0 3.8 5.6#



#48
2-Hexanone
Concen: 6.018 ug/L
RT: 8.626 min Scan# 2266
Delta R.T. -0.051 min
Lab File: VU053567.D
Acq: 04 Apr 2023 17:31

Tgt Ion: 43 Resp: 8327
Ion Ratio Lower Upper
43 100
58 37.1 49.8 74.6#
57 26.3 17.8 26.6
100 0.0 12.0 18.0#





#51

Chlorobenzene

Concen: 3.946 ug/L

RT: 9.443 min Scan# 21

Delta R.T. -0.000 min

Lab File: VU053567.D

Acq: 04 Apr 2023 17:31

Instrument :

MSVOA_U

ClientSampleId :

PMW-3(20230331)

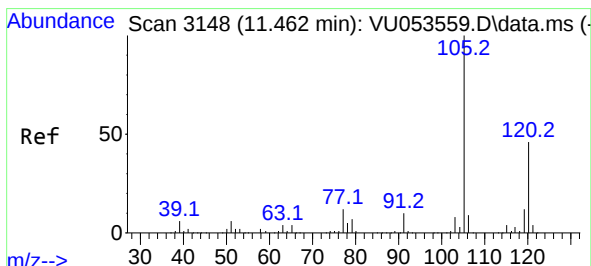
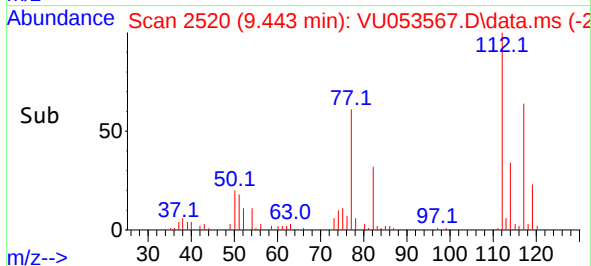
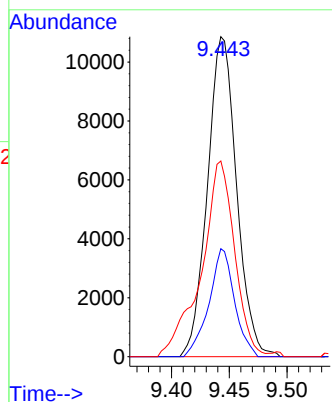
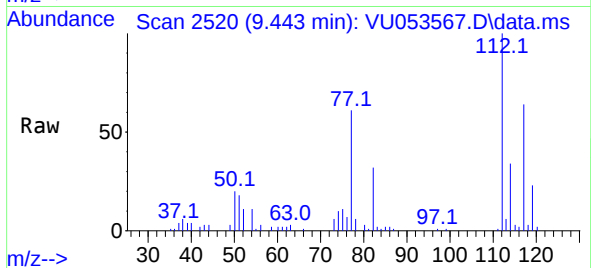
Tgt Ion:112 Resp: 19099

Ion Ratio Lower Upper

112 100

114 33.8 22.2 41.2

77 61.1 41.3 61.9



#63

1,2,4-Trimethylbenzene

Concen: 1.041 ug/L

RT: 11.465 min Scan# 3149

Delta R.T. 0.003 min

Lab File: VU053567.D

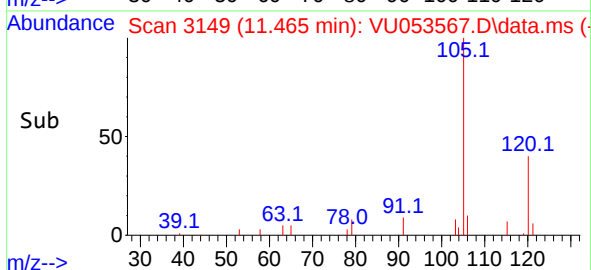
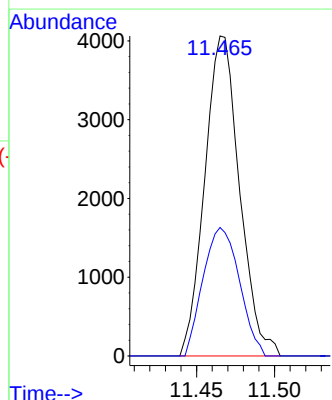
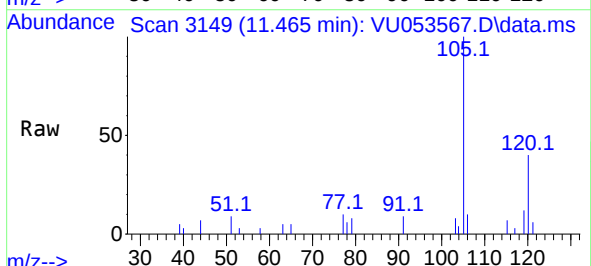
Acq: 04 Apr 2023 17:31

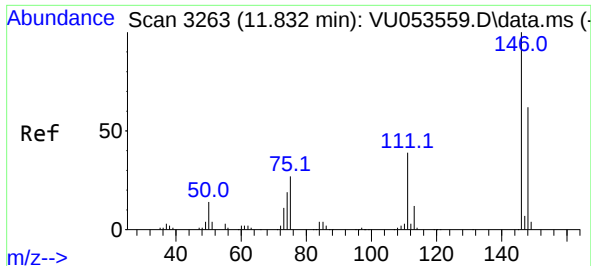
Tgt Ion:105 Resp: 6301

Ion Ratio Lower Upper

105 100

120 41.9 37.5 56.3

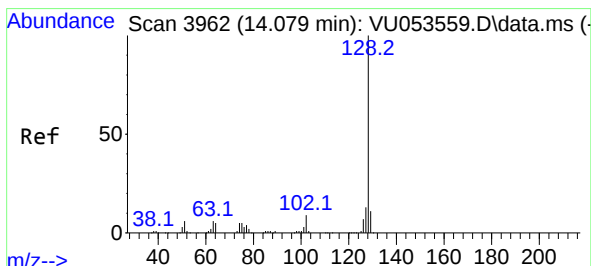
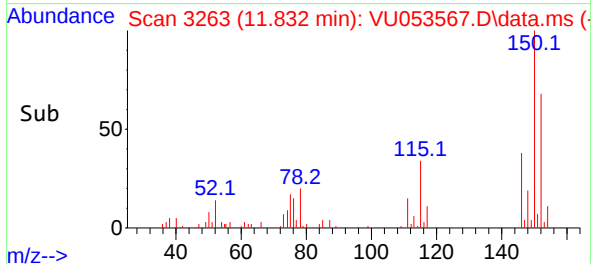
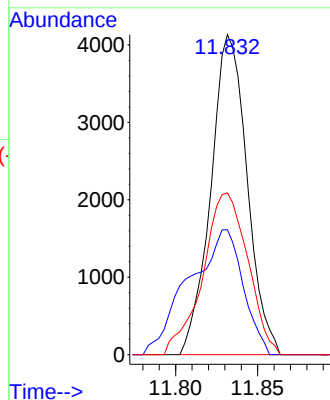
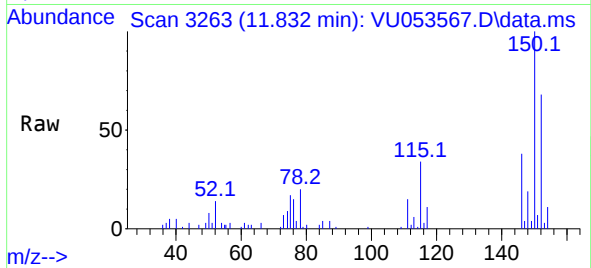




#65
1,4-Dichlorobenzene
Concen: 1.622 ug/L
RT: 11.832 min Scan# 31
Delta R.T. 0.000 min
Lab File: VU053567.D
Acq: 04 Apr 2023 17:31

Instrument :
MSVOA_U
ClientSampleId :
PMW-3(20230331)

Tgt Ion:146	Resp:	6351
Ion	Ratio	Lower Upper
146	100	
111	39.1	25.1 46.5
148	50.6	44.3 82.3



#71
Naphthalene
Concen: 4.203 ug/L
RT: 14.085 min Scan# 3964
Delta R.T. 0.006 min
Lab File: VU053567.D
Acq: 04 Apr 2023 17:31

Tgt Ion:128	Resp:	33169
Ion	Ratio	Lower Upper
128	100	
127	11.7	10.2 15.2
129	10.6	8.6 12.8

