

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\U090123\
 Data File : U055068.D
 Acq On : 02 Sep 2023 02:45
 Operator : MD/SY
 Sample : 04250-05
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Sep 02 04:11:48 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR090123WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Sat Sep 02 00:23:04 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	6.248	114	185526	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.415	117	186191	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.811	152	98902	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.596	65	40328	4.638	ug/L	0.00
Spiked Amount	5.000	Range 40 - 130	Recovery	=	92.800%	
7) Chloroethane-d5	1.911	69	49138	4.882	ug/L	0.00
Spiked Amount	5.000	Range 65 - 130	Recovery	=	97.600%	
11) 1,1-Dichloroethene-d2	2.563	65	25999	5.248	ug/L	0.00
Spiked Amount	5.000	Range 60 - 125	Recovery	=	105.000%	
20) 2-Butanone-d5	4.631	46	138247	54.788	ug/L	0.00
Spiked Amount	50.000	Range 40 - 130	Recovery	=	109.580%	
24) Chloroform-d	5.062	84	117877	5.109	ug/L	0.00
Spiked Amount	5.000	Range 70 - 125	Recovery	=	102.200%	
26) 1,2-Dichloroethane-d4	5.698	65	58908	5.103	ug/L	0.00
Spiked Amount	5.000	Range 70 - 130	Recovery	=	102.000%	
32) Benzene-d6	5.724	84	238096	5.181	ug/L	0.00
Spiked Amount	5.000	Range 70 - 125	Recovery	=	103.600%	
36) 1,2-Dichloropropane-d6	6.689	67	73884	5.054	ug/L	0.00
Spiked Amount	5.000	Range 60 - 140	Recovery	=	101.000%	
41) Toluene-d8	7.894	98	211930	5.006	ug/L	0.00
Spiked Amount	5.000	Range 70 - 130	Recovery	=	100.200%	
43) trans-1,3-Dichloroprop...	8.181	79	19022	4.725	ug/L	0.00
Spiked Amount	5.000	Range 55 - 130	Recovery	=	94.600%	
46) 2-Hexanone-d5	8.634	63	82314	50.366	ug/L	0.00
Spiked Amount	50.000	Range 45 - 130	Recovery	=	100.740%	
56) 1,1,2,2-Tetrachloroeth...	10.756	84	51880	5.047	ug/L	0.00
Spiked Amount	5.000	Range 65 - 120	Recovery	=	101.000%	
66) 1,2-Dichlorobenzene-d4	12.190	152	72372	5.013	ug/L	0.00
Spiked Amount	5.000	Range 80 - 120	Recovery	=	100.200%	
Target Compounds						
5) Vinyl chloride	1.602	62	51187	4.421	ug/L	95
9) Trichlorofluoromethane	2.136	101	7552	0.449	ug/L	98
12) 1,1-Dichloroethene	2.576	96	16512	1.925	ug/L #	35
17) Methyl tert-butyl Ether	3.361	73	22904	1.018	ug/L #	87
18) trans-1,2-Dichloroethene	3.351	96	18111	2.081	ug/L	91
19) 1,1-Dichloroethane	3.866	63	15671	0.833	ug/L	93
22) cis-1,2-Dichloroethene	4.660	96	3054368	286.730	ug/L	98
25) Chloroform	5.087	83	17032	0.870	ug/L	98
27) 1,2-Dichloroethane	5.798	62	2111	0.177	ug/L #	76
31) Carbon tetrachloride	5.521	117	2973	0.222	ug/L	95
33) Benzene	5.772	78	21891	0.552	ug/L	100
34) Trichloroethene	6.541	95	7777286	706.187	ug/L	96
35) Methylcyclohexane	6.689	83	16604	1.075	ug/L #	20
37) 1,2-Dichloropropane	6.689	63	8788	0.815	ug/L #	89
45) 1,1,2-Trichloroethane	8.402	97	6103	0.840	ug/L	91
47) Tetrachloroethene	8.550	164	29157	3.831	ug/L	95
48) 2-Hexanone	8.685	43	16959	3.518	ug/L #	76
49) Dibromochloromethane	8.550	129	29885	3.767	ug/L #	9
51) Chlorobenzene	9.444	112	35508	1.269	ug/L	96

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Misc : 25.0mL/MSVOA_U/WATER
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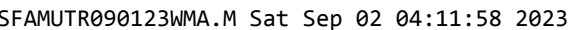
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MSVOA_U
ClientSampleId :

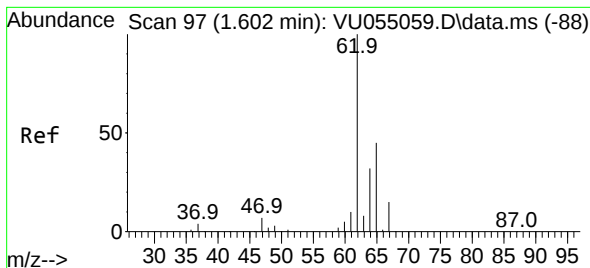
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR090123WMA.M
Quant Title : TRACE VOA SFAM1.0
QLast Update : Sat Sep 02 00:23:04 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
61) 1,2,3-Trichloropropane	11.746	75	4387	0.668	ug/L #	43
64) 1,3-Dichlorobenzene	11.746	146	14034	0.634	ug/L	97
65) 1,4-Dichlorobenzene	11.833	146	13995	0.634	ug/L	93
67) 1,2-Dichlorobenzene	12.209	146	6714	0.323	ug/L	98
69) 1,3,5-Trichlorobenzene	13.839	180	31437	1.879	ug/L	97
70) 1,2,4-trichlorobenzene	13.839	180	31528	2.010	ug/L	98
72) 1,2,3-Trichlorobenzene	14.331	180	14062	1.033	ug/L	99

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

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#5

Vinyl chloride

Concen: 4.421 ug/L

RT: 1.602 min Scan# 91

Delta R.T. 0.000 min

Lab File: VU055068.D

Acq: 02 Sep 2023 02:45

Instrument :

MSVOA_U

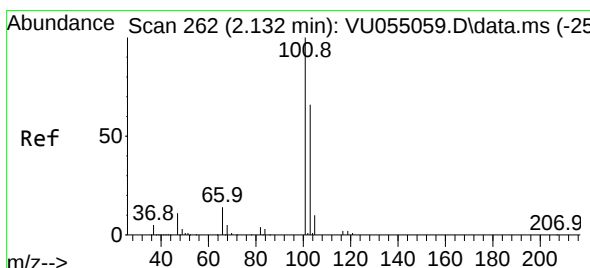
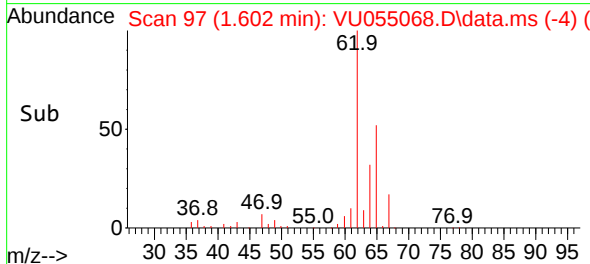
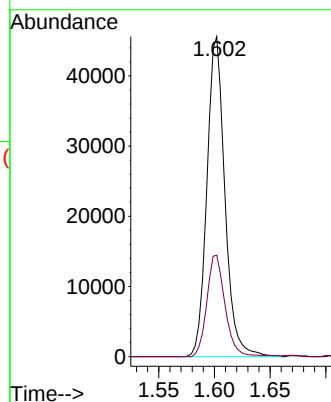
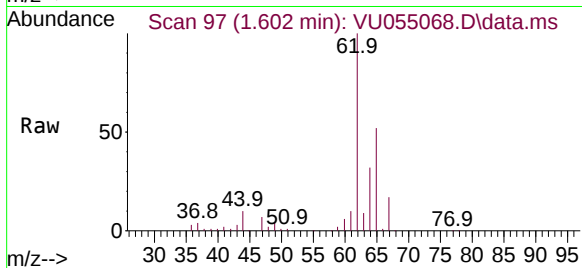
ClientSampleId :

Tgt Ion: 62 Resp: 51187

Ion Ratio Lower Upper

62 100

64 31.7 24.2 45.0



#9

Trichlorofluoromethane

Concen: 0.449 ug/L

RT: 2.136 min Scan# 263

Delta R.T. 0.003 min

Lab File: VU055068.D

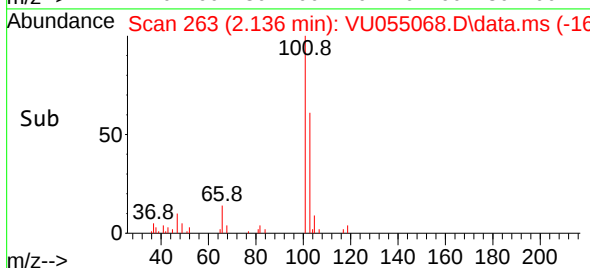
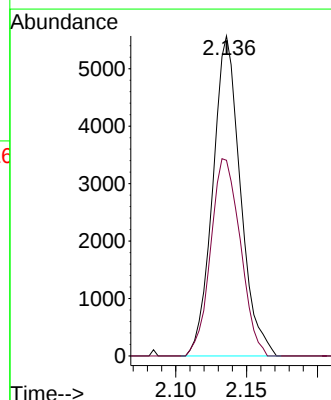
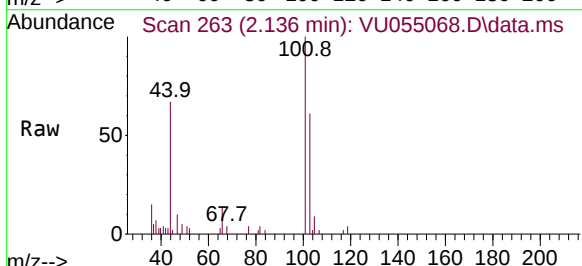
Acq: 02 Sep 2023 02:45

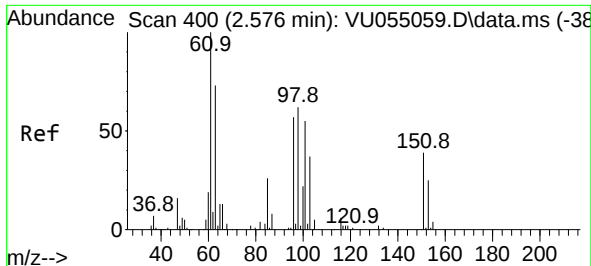
Tgt Ion: 101 Resp: 7552

Ion Ratio Lower Upper

101 100

103 66.1 51.9 77.9

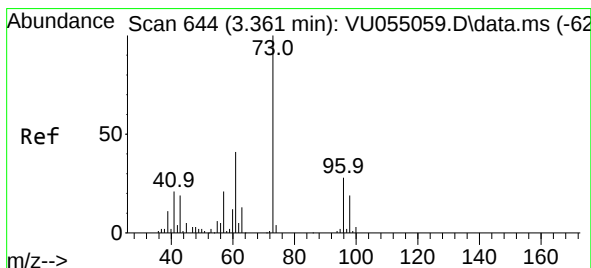
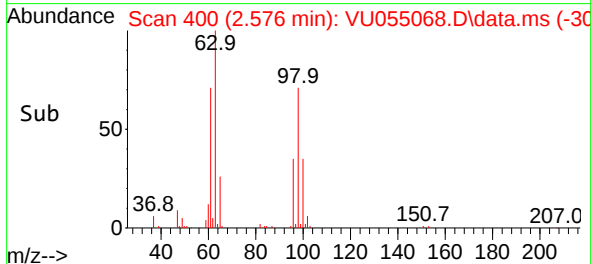
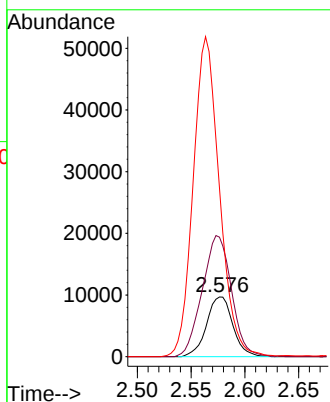
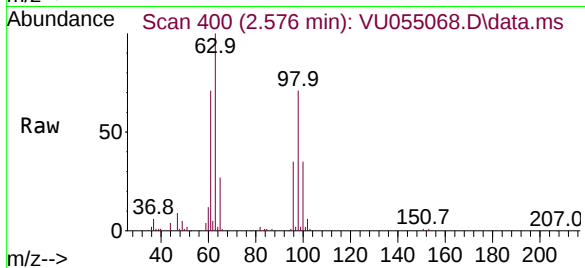




#12
1,1-Dichloroethene
Concen: 1.925 ug/L
RT: 2.576 min Scan# 400
Delta R.T. 0.000 min
Lab File: VU055068.D
Acq: 02 Sep 2023 02:45

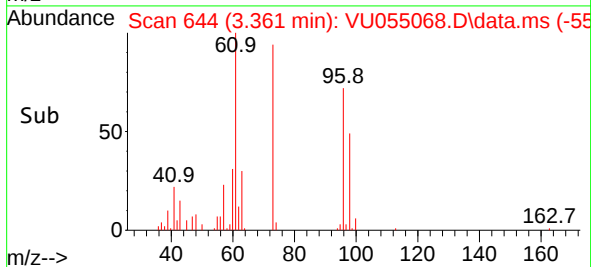
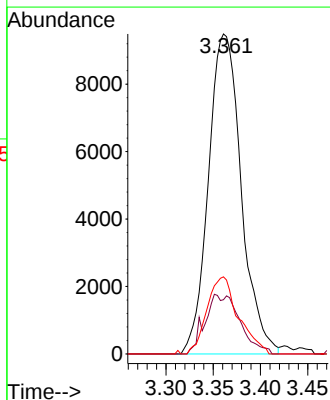
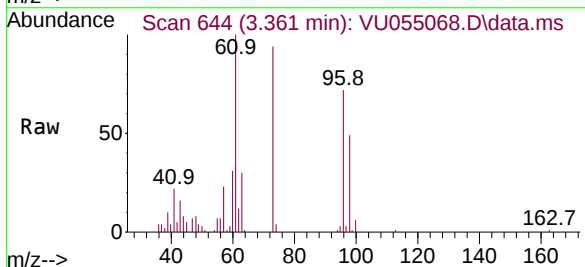
Instrument :
MSVOA_U
ClientSampleId :

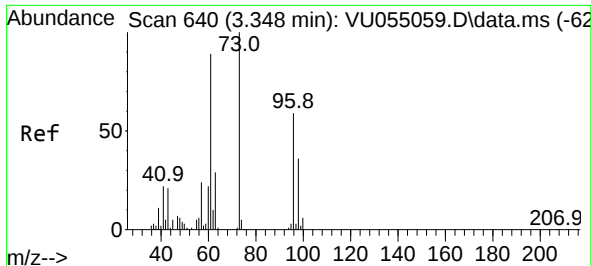
Tgt Ion: 96 Resp: 16512
Ion Ratio Lower Upper
96 100
61 200.2 120.8 224.4
63 282.4 94.5 175.5#



#17
Methyl tert-butyl Ether
Concen: 1.018 ug/L
RT: 3.361 min Scan# 644
Delta R.T. 0.000 min
Lab File: VU055068.D
Acq: 02 Sep 2023 02:45

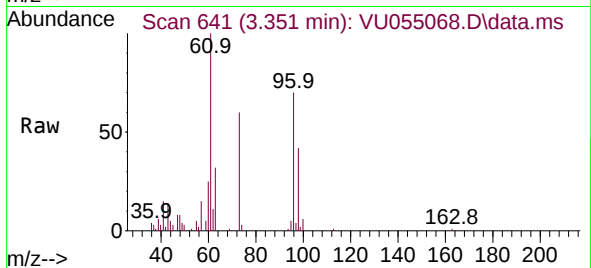
Tgt Ion: 73 Resp: 22904
Ion Ratio Lower Upper
73 100
43 9.3 16.2 24.2#
57 23.1 17.4 26.2



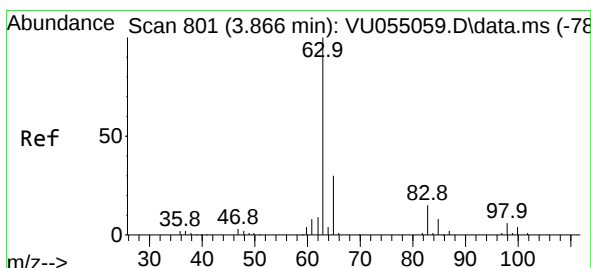
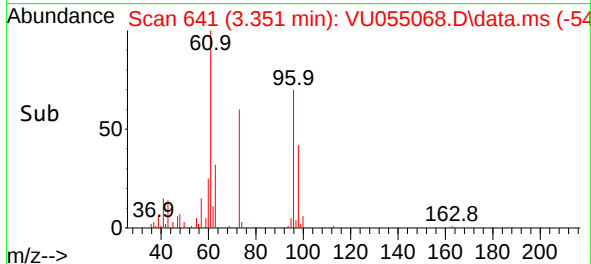
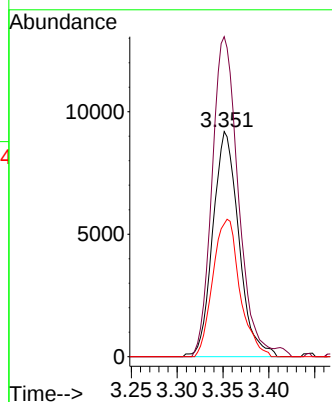


#18
trans-1,2-Dichloroethene
Concen: 2.081 ug/L
RT: 3.351 min Scan# 641
Delta R.T. 0.003 min
Lab File: VU055068.D
Acq: 02 Sep 2023 02:45

Instrument :
MSVOA_U
ClientSampleId :

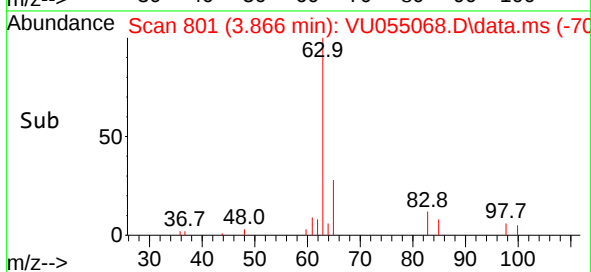
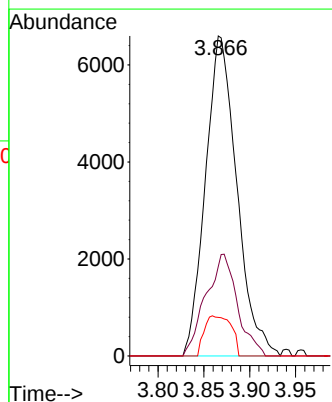
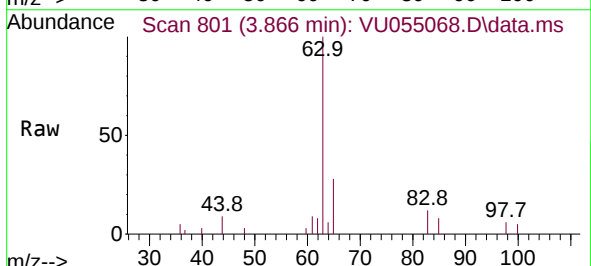


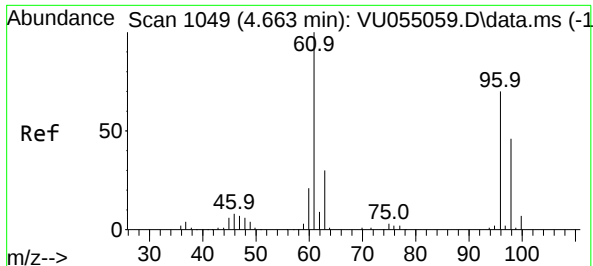
Tgt Ion: 96 Resp: 18111
Ion Ratio Lower Upper
96 100
61 142.1 108.1 200.9
98 59.0 45.4 84.4



#19
1,1-Dichloroethane
Concen: 0.833 ug/L
RT: 3.866 min Scan# 801
Delta R.T. 0.000 min
Lab File: VU055068.D
Acq: 02 Sep 2023 02:45

Tgt Ion: 63 Resp: 15671
Ion Ratio Lower Upper
63 100
65 27.9 22.2 41.2
83 12.0 10.6 19.8





#22

cis-1,2-Dichloroethene

Concen: 286.730 ug/L

RT: 4.660 min Scan# 1108

Delta R.T. -0.003 min

Lab File: VU055068.D

Acq: 02 Sep 2023 02:45

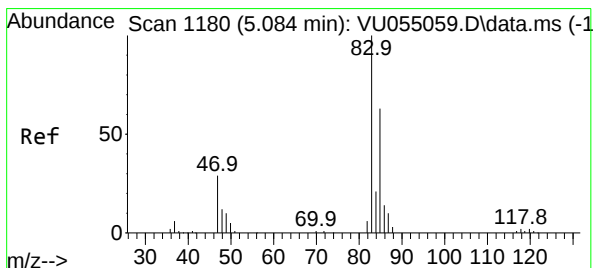
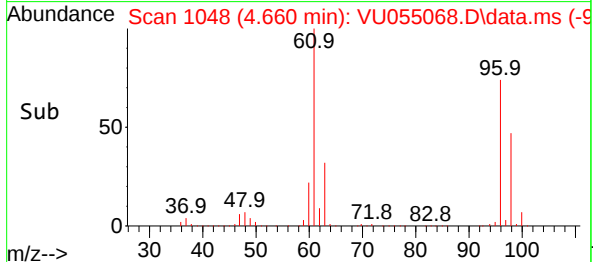
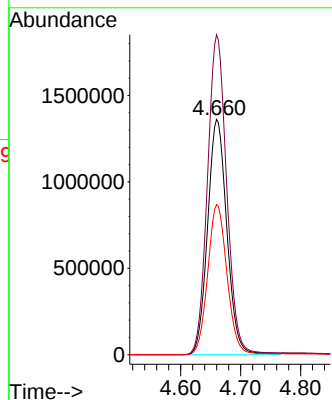
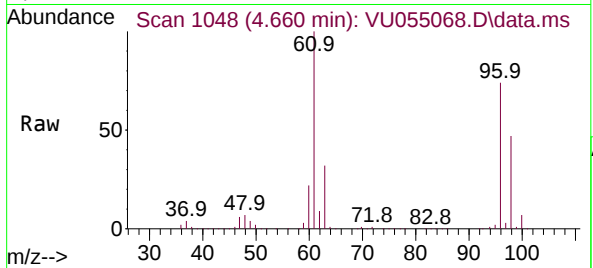
Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 96 Resp: 3054368

Ion	Ratio	Lower	Upper
96	100		
61	136.0	97.2	180.4
98	63.8	46.1	85.7



#25

Chloroform

Concen: 0.870 ug/L

RT: 5.087 min Scan# 1181

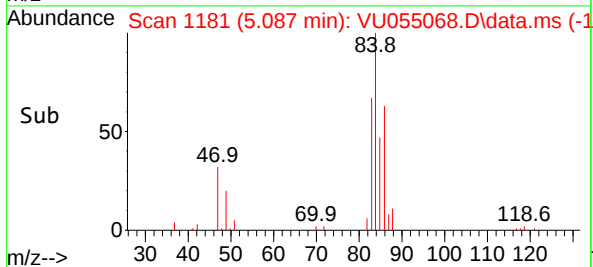
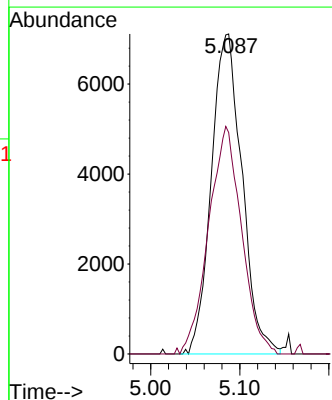
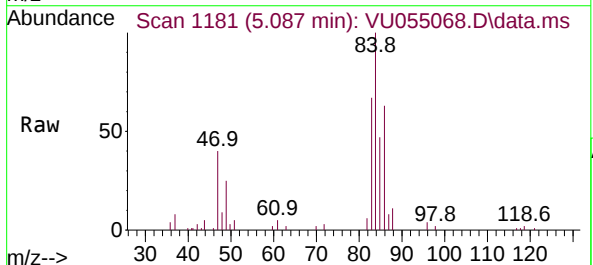
Delta R.T. 0.003 min

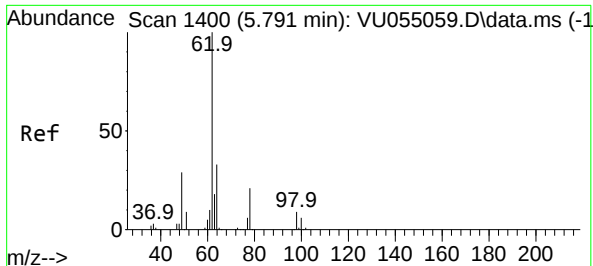
Lab File: VU055068.D

Acq: 02 Sep 2023 02:45

Tgt Ion: 83 Resp: 17032

Ion	Ratio	Lower	Upper
83	100		
85	69.2	47.2	87.6

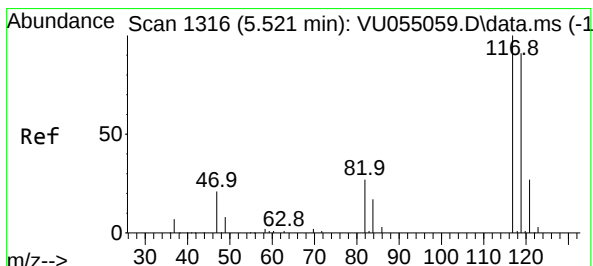
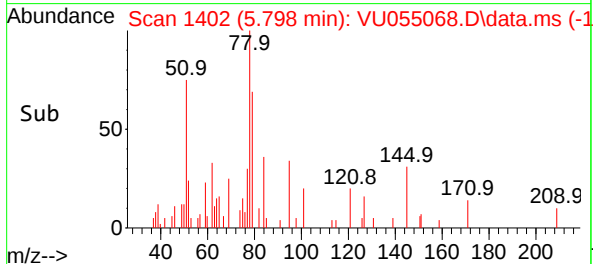
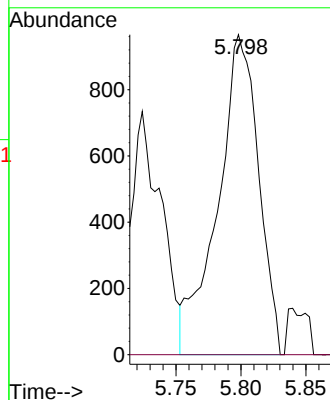
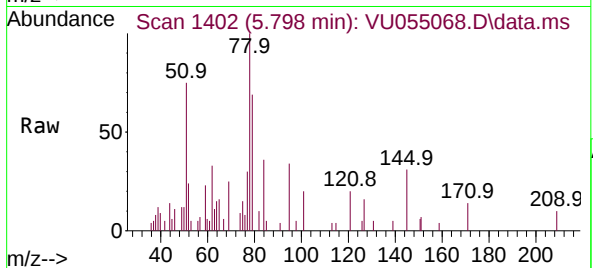




#27
1,2-Dichloroethane
Concen: 0.177 ug/L
RT: 5.798 min Scan# 1400
Delta R.T. 0.007 min
Lab File: VU055068.D
Acq: 02 Sep 2023 02:45

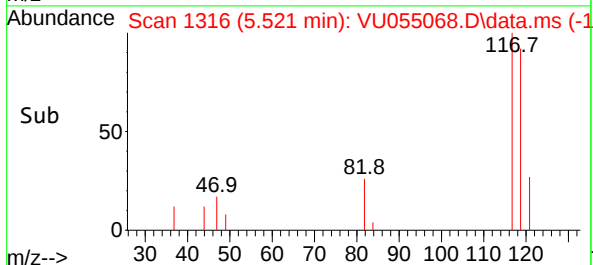
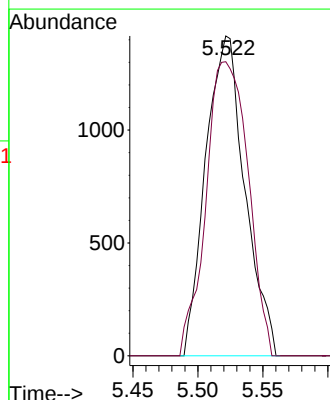
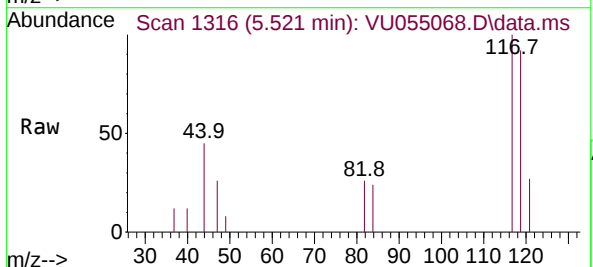
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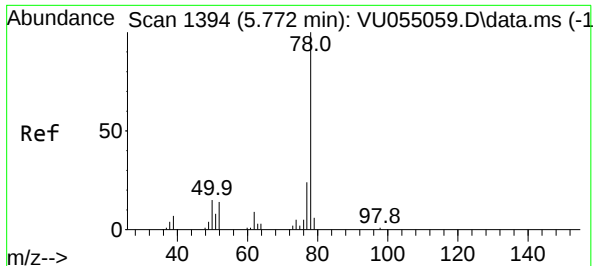
Tgt Ion: 62 Resp: 2111
Ion Ratio Lower Upper
62 100
98 0.0 6.9 10.3#



#31
Carbon tetrachloride
Concen: 0.222 ug/L
RT: 5.521 min Scan# 1316
Delta R.T. 0.000 min
Lab File: VU055068.D
Acq: 02 Sep 2023 02:45

Tgt Ion: 117 Resp: 2973
Ion Ratio Lower Upper
117 100
119 98.8 75.4 113.0

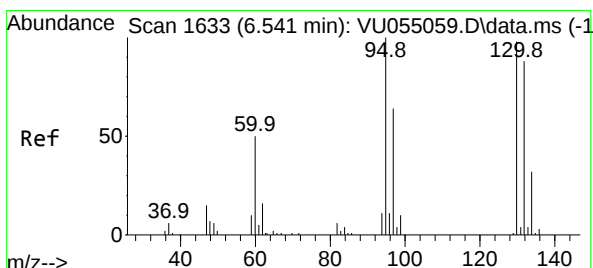
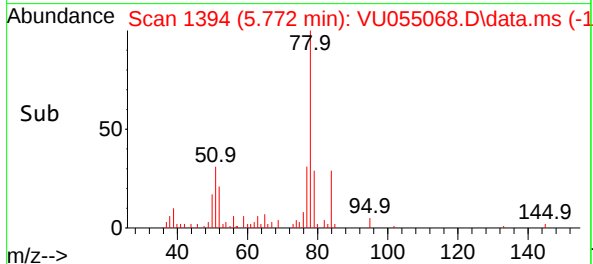
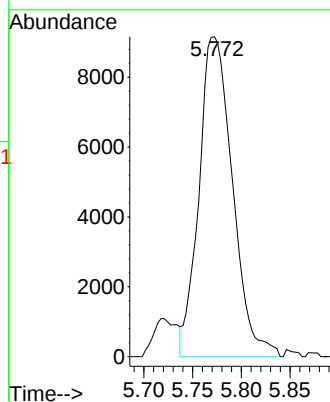
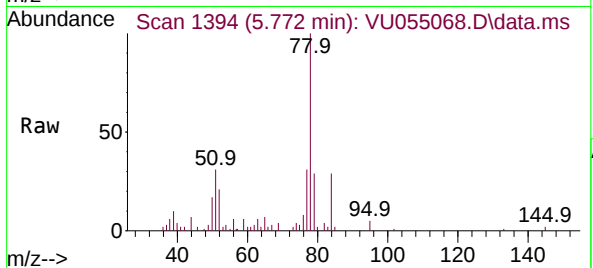




#33
Benzene
Concen: 0.552 ug/L
RT: 5.772 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU055068.D
Acq: 02 Sep 2023 02:45

Instrument :
MSVOA_U
ClientSampleId :

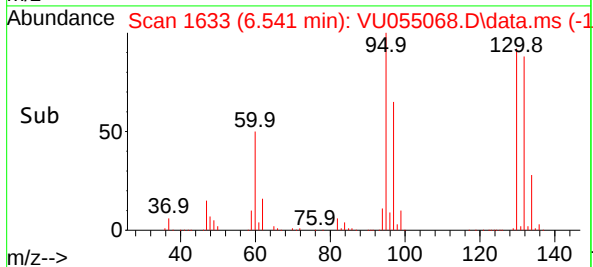
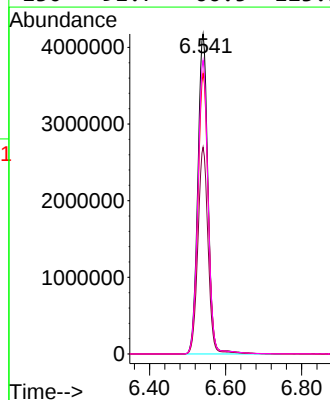
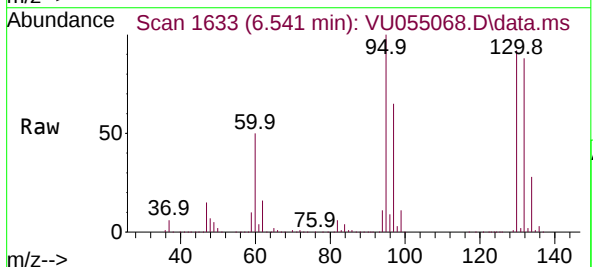
Tgt Ion: 78 Resp: 21891

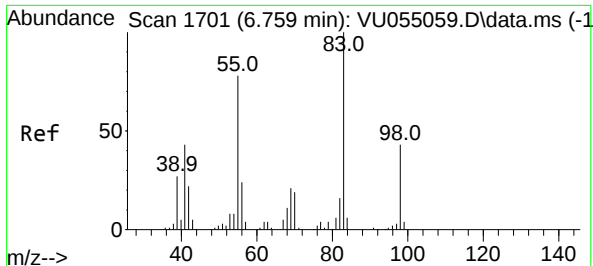


#34
Trichloroethene
Concen: 706.187 ug/L
RT: 6.541 min Scan# 1633
Delta R.T. 0.000 min
Lab File: VU055068.D
Acq: 02 Sep 2023 02:45

Tgt Ion: 95 Resp: 7777286

Ion	Ratio	Lower	Upper
95	100		
97	64.6	44.7	83.1
132	87.7	66.6	123.6
130	91.7	66.5	123.5





#35

Methylcyclohexane

Concen: 1.075 ug/L

RT: 6.689 min Scan# 1

Delta R.T. -0.071 min

Lab File: VU055068.D

Acq: 02 Sep 2023 02:45

Instrument :

MSVOA_U

ClientSampleId :

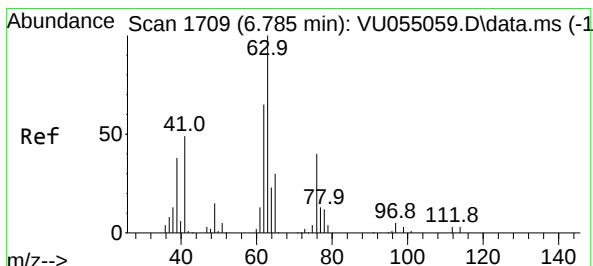
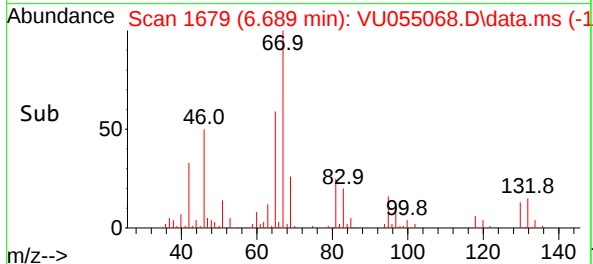
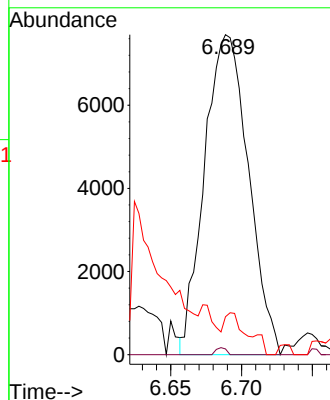
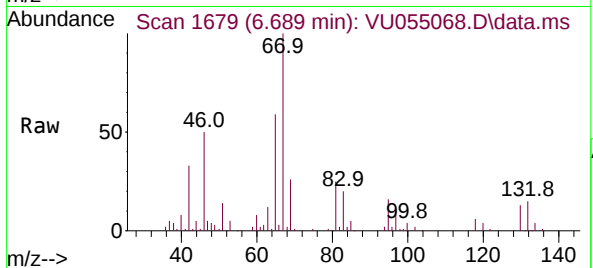
Tgt Ion: 83 Resp: 16604

Ion Ratio Lower Upper

83 100

55 0.5 60.4 90.6#

98 0.0 35.3 52.9#



#37

1,2-Dichloropropane

Concen: 0.815 ug/L

RT: 6.689 min Scan# 1679

Delta R.T. -0.096 min

Lab File: VU055068.D

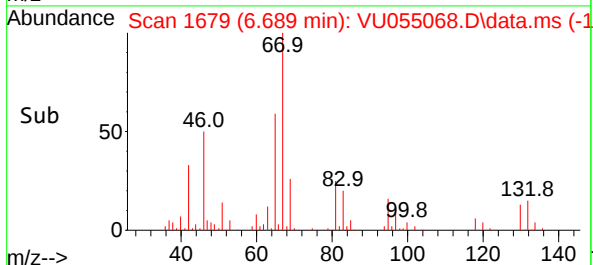
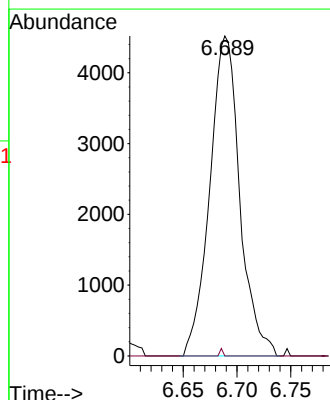
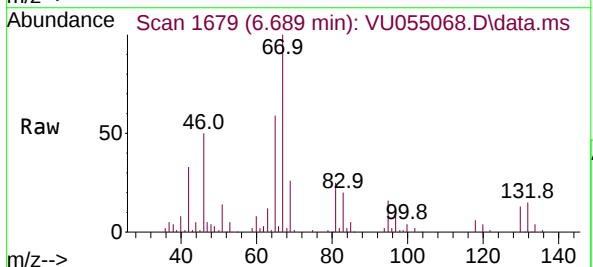
Acq: 02 Sep 2023 02:45

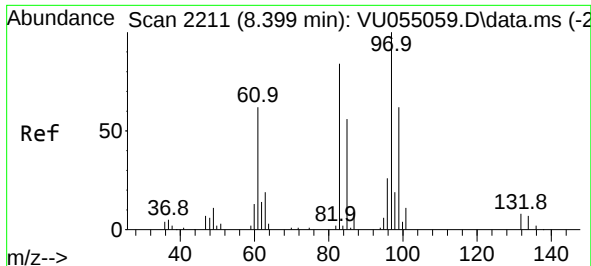
Tgt Ion: 63 Resp: 8788

Ion Ratio Lower Upper

63 100

112 0.2 3.2 4.8#





#45

1,1,2-Trichloroethane

Concen: 0.840 ug/L

RT: 8.402 min Scan# 211

Delta R.T. 0.003 min

Lab File: VU055068.D

Acq: 02 Sep 2023 02:45

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 97 Resp: 6103

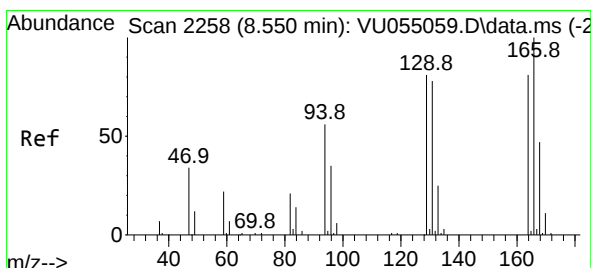
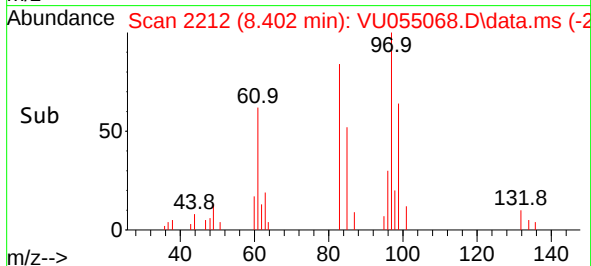
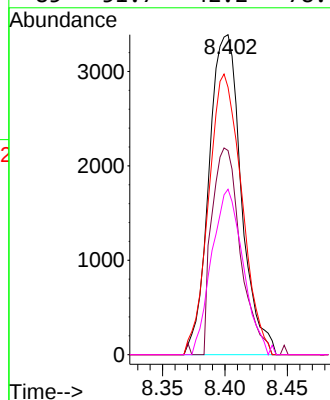
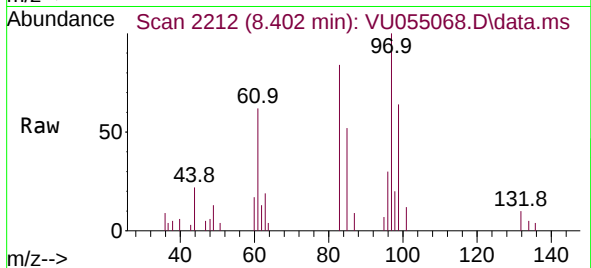
Ion Ratio Lower Upper

97 100

99 63.8 44.9 83.5

83 83.6 66.9 124.3

85 51.7 42.2 78.4



#47

Tetrachloroethene

Concen: 3.831 ug/L

RT: 8.550 min Scan# 2258

Delta R.T. 0.000 min

Lab File: VU055068.D

Acq: 02 Sep 2023 02:45

Tgt Ion: 164 Resp: 29157

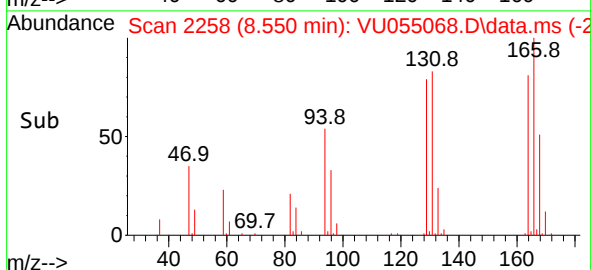
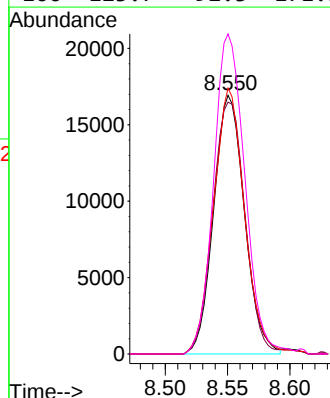
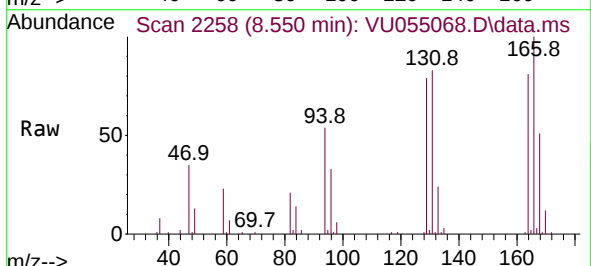
Ion Ratio Lower Upper

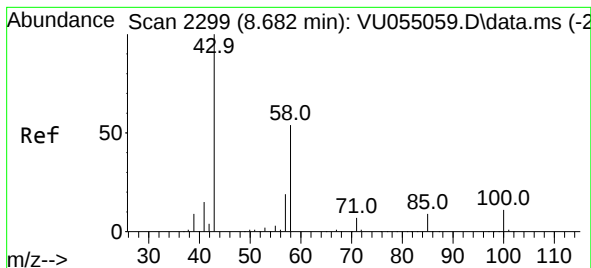
164 100

129 97.4 69.2 128.6

131 102.8 68.8 127.8

166 123.7 92.3 171.5





#48

2-Hexanone

Concen: 3.518 ug/L

RT: 8.685 min Scan# 21

Delta R.T. 0.003 min

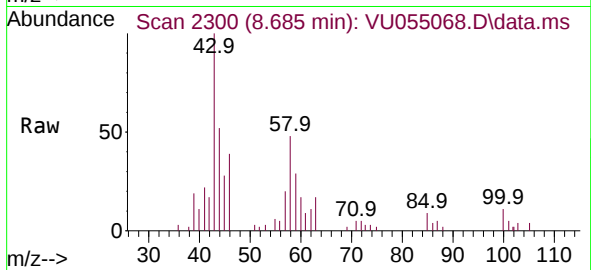
Lab File: VU055068.D

Acq: 02 Sep 2023 02:45

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion: 43 Resp: 16959

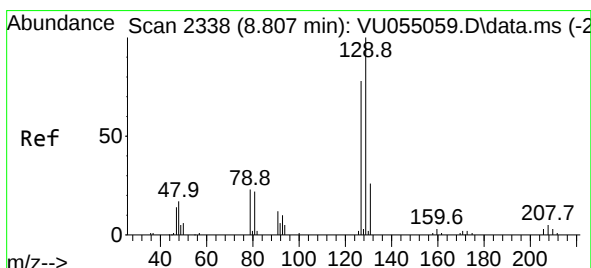
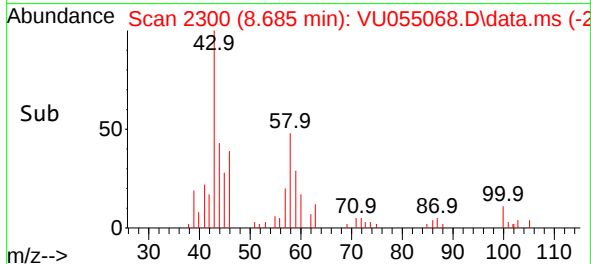
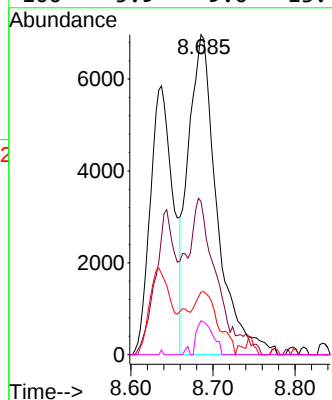
Ion Ratio Lower Upper

43 100

58 32.4 44.0 66.0#

57 16.2 16.2 24.2

100 5.9 9.0 13.4#



#49

Dibromochloromethane

Concen: 3.767 ug/L

RT: 8.550 min Scan# 2258

Delta R.T. -0.257 min

Lab File: VU055068.D

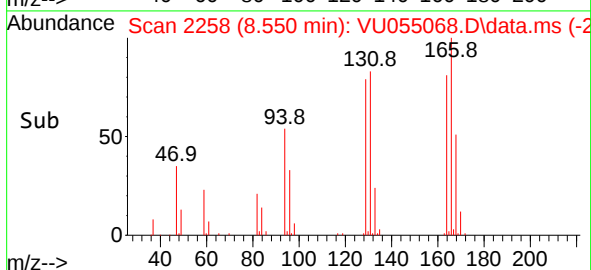
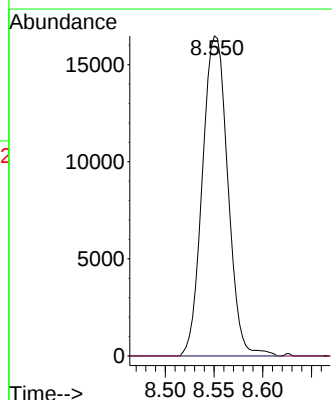
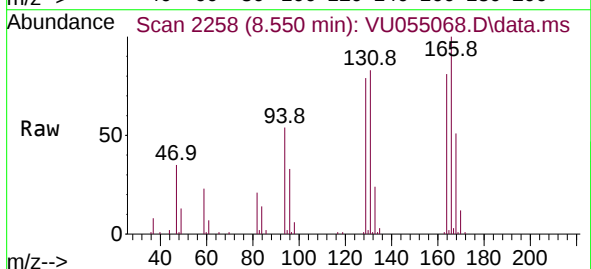
Acq: 02 Sep 2023 02:45

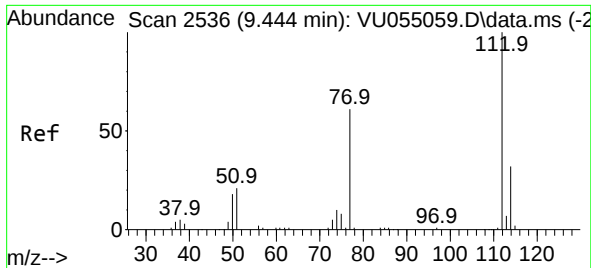
Tgt Ion:129 Resp: 29885

Ion Ratio Lower Upper

129 100

127 0.0 55.9 103.7#

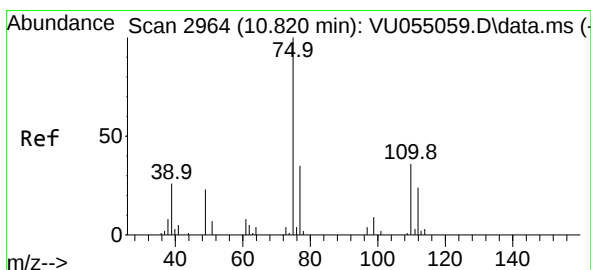
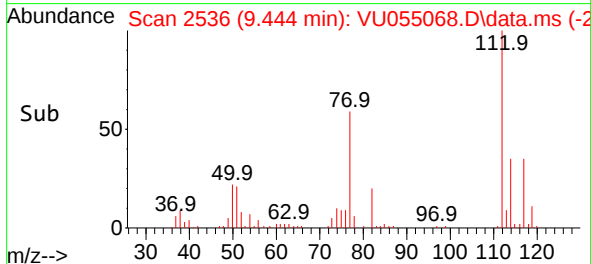
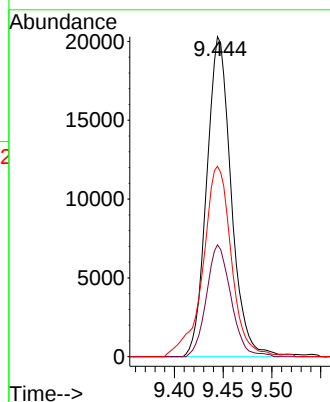
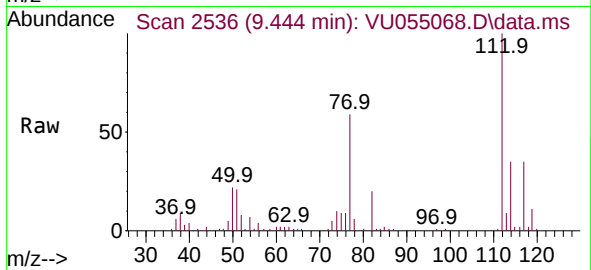




#51
Chlorobenzene
Concen: 1.269 ug/L
RT: 9.444 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU055068.D
Acq: 02 Sep 2023 02:45

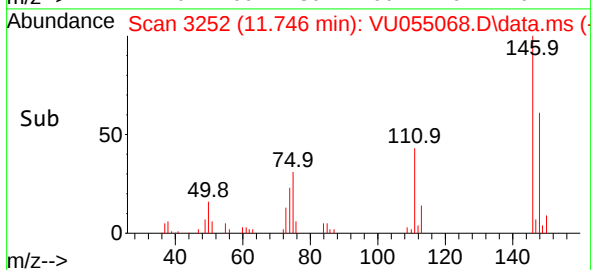
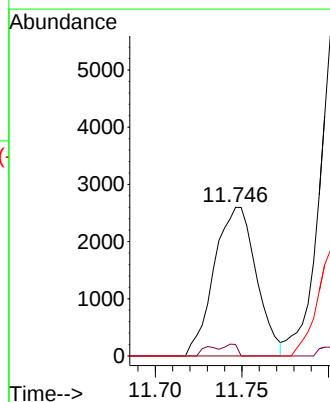
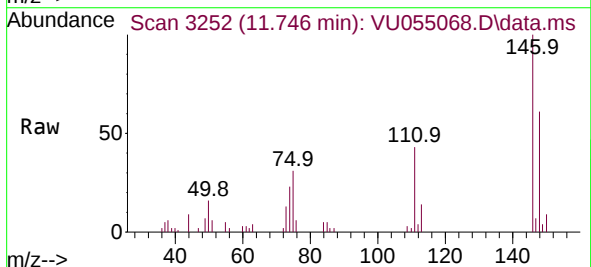
Instrument :
MSVOA_U
ClientSampleId :

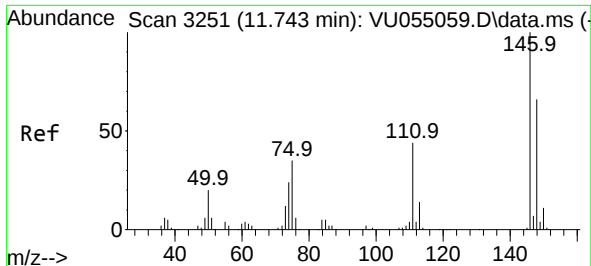
Tgt Ion:112 Resp: 35508
Ion Ratio Lower Upper
112 100
114 35.0 21.7 40.3
77 59.5 48.6 72.8



#61
1,2,3-Trichloropropane
Concen: 0.668 ug/L
RT: 11.746 min Scan# 3252
Delta R.T. 0.926 min
Lab File: VU055068.D
Acq: 02 Sep 2023 02:45

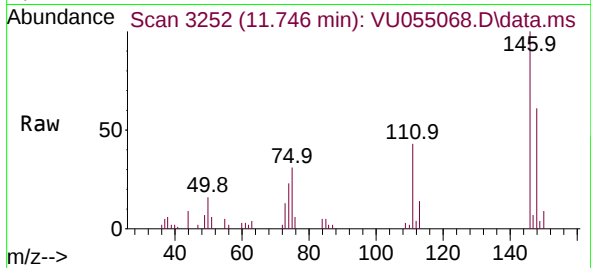
Tgt Ion: 75 Resp: 4387
Ion Ratio Lower Upper
75 100
110 2.5 28.2 42.2#
77 0.0 26.2 39.4#



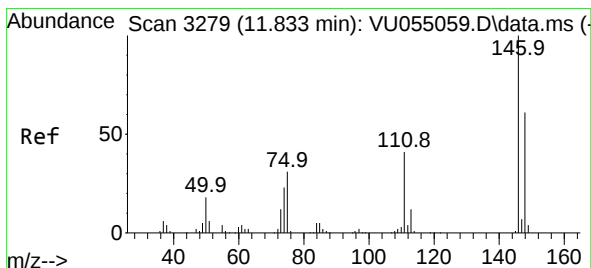
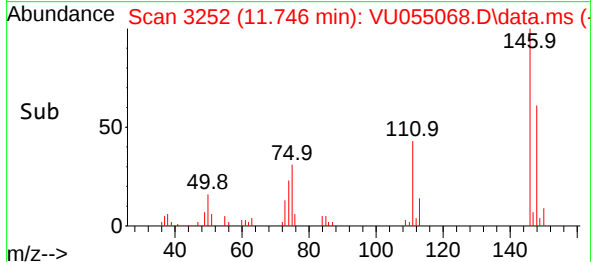
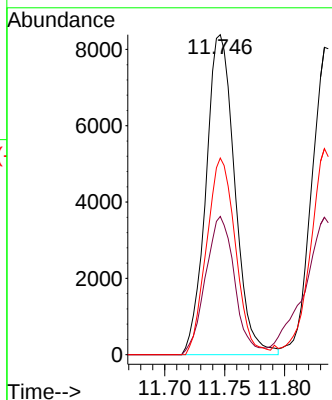


#64
1,3-Dichlorobenzene
Concen: 0.634 ug/L
RT: 11.746 min Scan# 31
Delta R.T. 0.003 min
Lab File: VU055068.D
Acq: 02 Sep 2023 02:45

Instrument :
MSVOA_U
ClientSampleId :

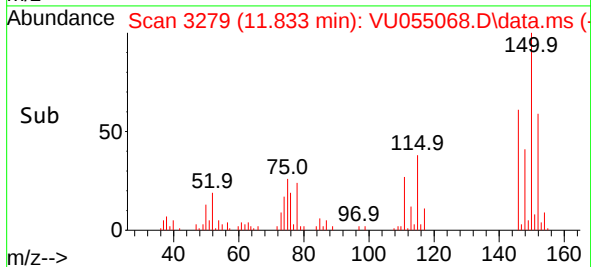
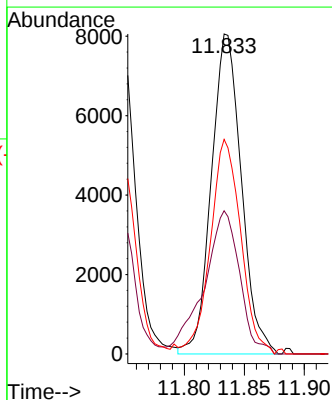
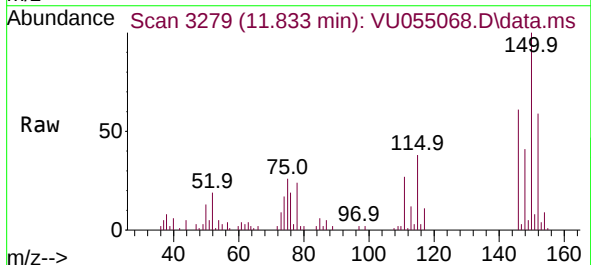


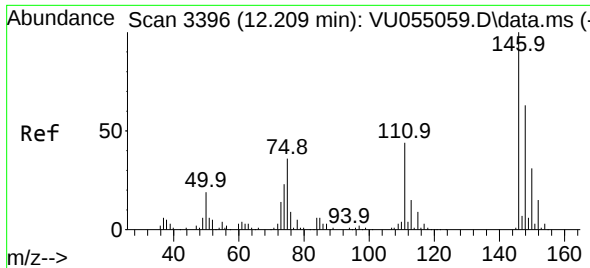
Tgt Ion:146 Resp: 14034
Ion Ratio Lower Upper
146 100
111 43.2 30.0 55.6
148 61.5 45.2 84.0



#65
1,4-Dichlorobenzene
Concen: 0.634 ug/L
RT: 11.833 min Scan# 3279
Delta R.T. 0.000 min
Lab File: VU055068.D
Acq: 02 Sep 2023 02:45

Tgt Ion:146 Resp: 13995
Ion Ratio Lower Upper
146 100
111 44.7 28.1 52.1
148 67.0 43.8 81.3





#67

1,2-Dichlorobenzene

Concen: 0.323 ug/L

RT: 12.209 min Scan# 31

Delta R.T. 0.000 min

Lab File: VU055068.D

Acq: 02 Sep 2023 02:45

Instrument :

MSVOA_U

ClientSampleId :

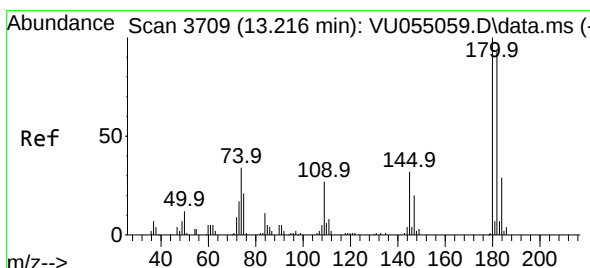
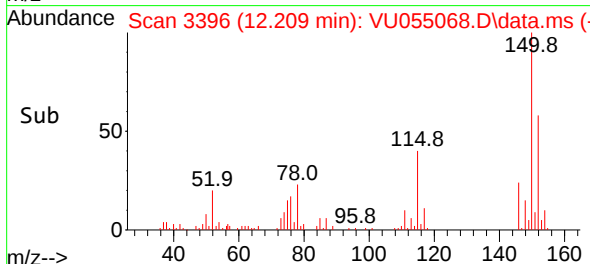
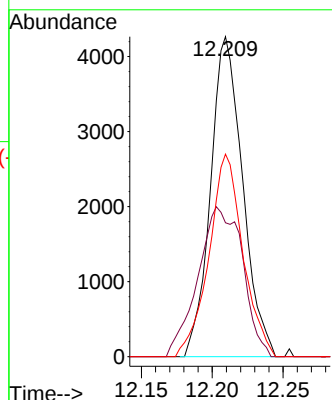
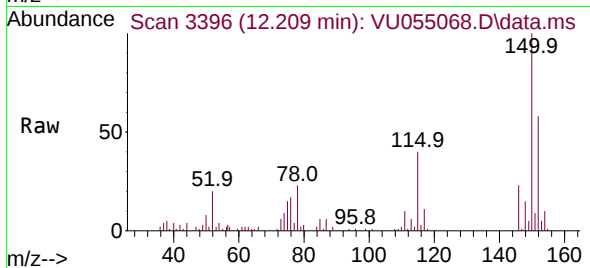
Tgt Ion:146 Resp: 6714

Ion Ratio Lower Upper

146 100

111 41.9 35.6 53.4

148 63.3 51.3 76.9



#69

1,3,5-Trichlorobenzene

Concen: 1.879 ug/L

RT: 13.839 min Scan# 3903

Delta R.T. 0.624 min

Lab File: VU055068.D

Acq: 02 Sep 2023 02:45

Tgt Ion:180 Resp: 31437

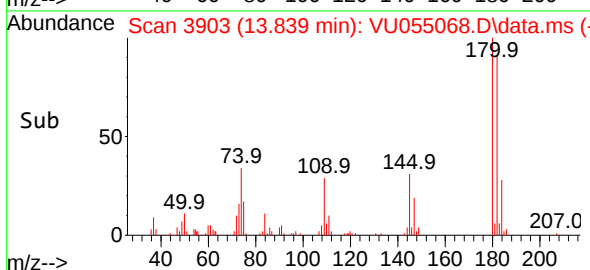
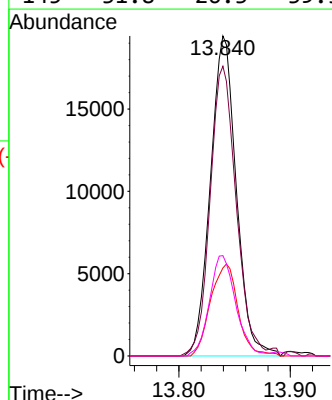
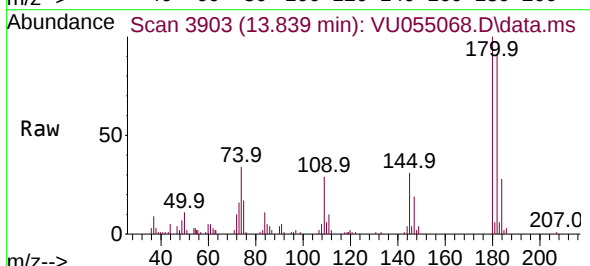
Ion Ratio Lower Upper

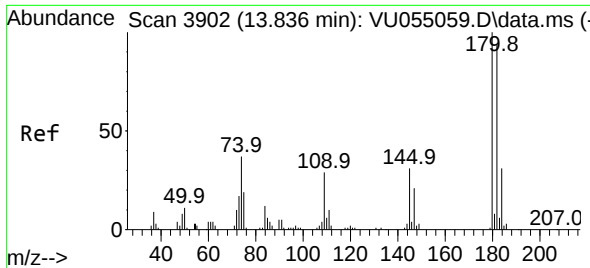
180 100

182 90.7 75.8 113.6

184 30.5 24.0 36.0

145 31.8 26.3 39.5

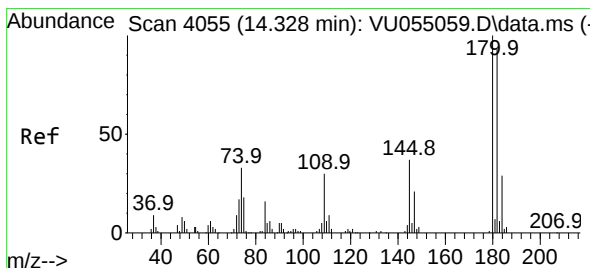
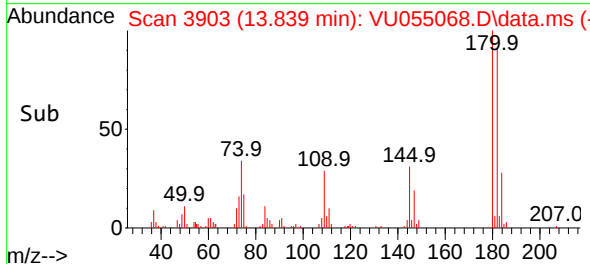
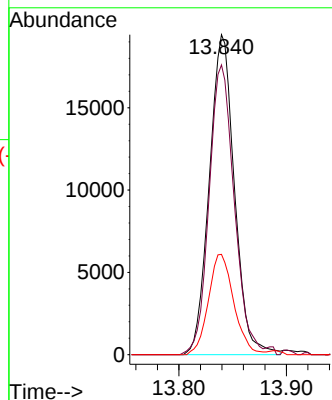
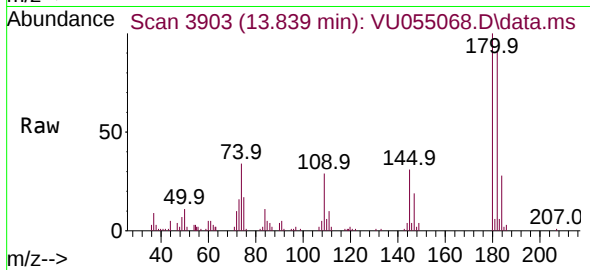




#70
1,2,4-trichlorobenzene
Concen: 2.010 ug/L
RT: 13.839 min Scan# 3903
Delta R.T. 0.003 min
Lab File: VU055068.D
Acq: 02 Sep 2023 02:45

Instrument :
MSVOA_U
ClientSampleId :

Tgt Ion:180 Resp: 31528
Ion Ratio Lower Upper
180 100
182 90.4 73.6 110.4
145 31.7 25.8 38.8



#72
1,2,3-Trichlorobenzene
Concen: 1.033 ug/L
RT: 14.331 min Scan# 4056
Delta R.T. 0.003 min
Lab File: VU055068.D
Acq: 02 Sep 2023 02:45

Tgt Ion:180 Resp: 14062
Ion Ratio Lower Upper
180 100
182 95.5 75.6 113.4
145 33.5 27.0 40.6

