

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\U091823\
 Data File : VU055371.D
 Acq On : 18 Sep 2023 13:46
 Operator : MD/SY
 Sample : 04398-02
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Sep 19 01:15:25 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR091523WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Tue Sep 19 01:12:51 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.248	114	173398	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.415	117	167043	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.811	152	71311	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.595	65	25118	2.520	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	50.400%
7) Chloroethane-d5	1.911	69	41468	3.686	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	73.800%
11) 1,1-Dichloroethene-d2	2.563	65	13750	3.814	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	76.200%
20) 2-Butanone-d5	4.631	46	148719	53.962	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	107.920%
24) Chloroform-d	5.058	84	97246	4.369	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.400%
26) 1,2-Dichloroethane-d4	5.701	65	53321	4.747	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.000%
32) Benzene-d6	5.724	84	174361	4.980	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.600%
36) 1,2-Dichloropropane-d6	6.685	67	62614	5.248	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	105.000%
41) Toluene-d8	7.898	98	137216	4.545	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	91.000%
43) trans-1,3-Dichloroprop...	8.180	79	10482	2.476	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	49.600%#
46) 2-Hexanone-d5	8.631	63	76243	49.499	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	99.000%
56) 1,1,2,2-Tetrachloroeth...	10.753	84	51533	4.967	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	99.400%
66) 1,2-Dichlorobenzene-d4	12.190	152	47062	5.125	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	102.400%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.602	62	84730	4.928	ug/L	99
12) 1,1-Dichloroethene	2.576	96	91733	7.525	ug/L	88
16) Methylene chloride	3.042	84	7397	0.407	ug/L	84
17) Methyl tert-butyl Ether	3.357	73	40981	1.402	ug/L	98
18) trans-1,2-Dichloroethene	3.351	96	6813	0.508	ug/L	81
19) 1,1-Dichloroethane	3.869	63	45124	1.730	ug/L	100
22) cis-1,2-Dichloroethene	4.660	96	2138724	136.230	ug/L	99
25) Chloroform	5.087	83	15951	0.565	ug/L	87
27) 1,2-Dichloroethane	5.795	62	15308	0.874	ug/L	100
34) Trichloroethene	6.537	95	1696503	107.807	ug/L	96
35) Methylcyclohexane	6.689	83	15151	0.662	ug/L #	36
37) 1,2-Dichloropropane	6.689	63	7302	0.503	ug/L #	91
47) Tetrachloroethene	8.550	164	21925	2.033	ug/L	96
48) 2-Hexanone	8.682	43	16787	3.233	ug/L #	90
49) Dibromochloromethane	8.550	129	21749	2.112	ug/L #	11
51) Chlorobenzene	9.447	112	8899	0.228	ug/L	94
61) 1,2,3-Trichloropropane	11.749	75	2639	0.382	ug/L #	49
64) 1,3-Dichlorobenzene	11.749	146	8431	0.351	ug/L	96
65) 1,4-Dichlorobenzene	11.836	146	17508	0.747	ug/L	99

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QLast Update : Tue Sep 19 01:12:51 2023
Response via : Initial Calibration

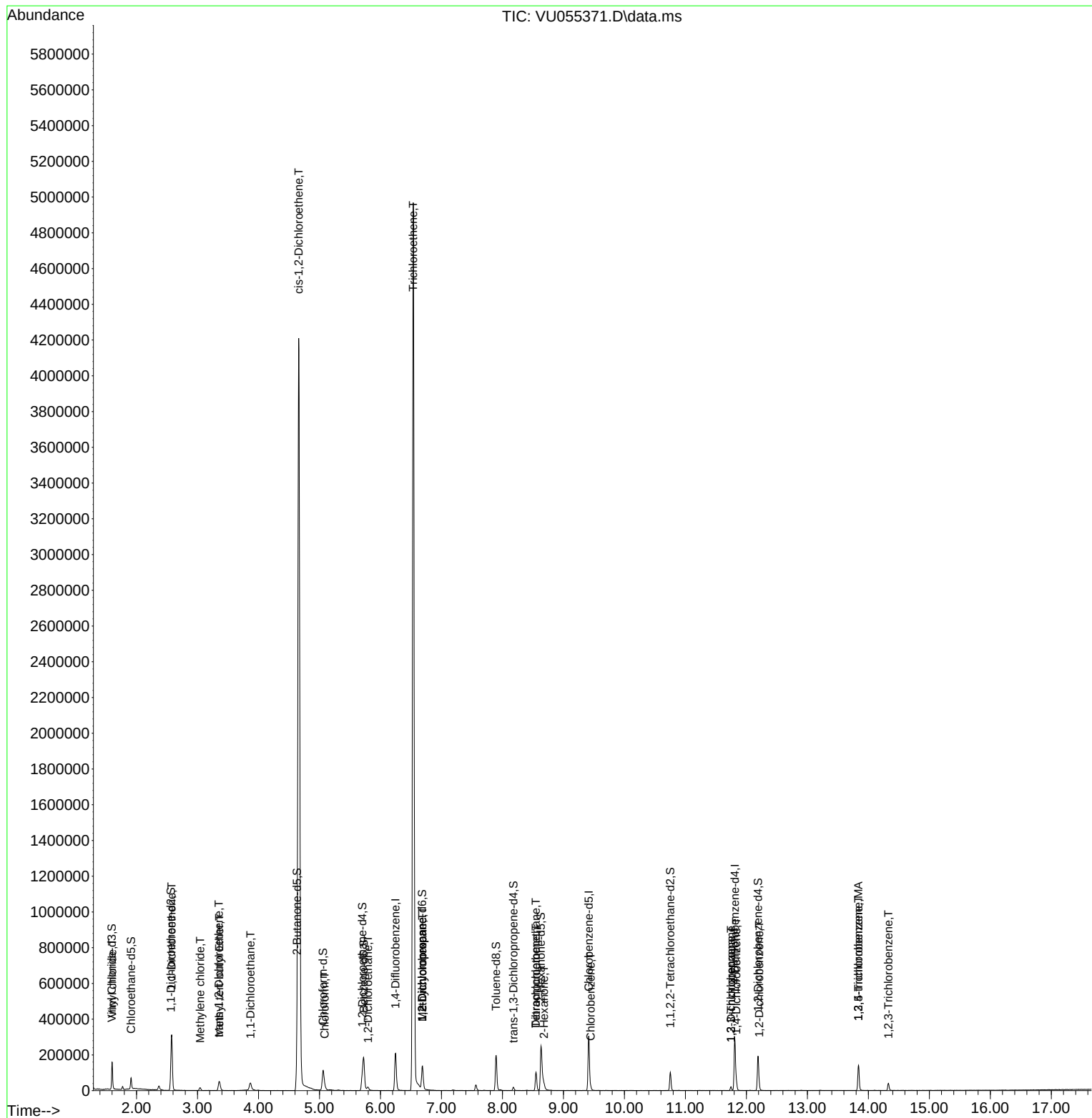
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) 1,2-Dichlorobenzene	12.212	146	4619	0.215	ug/L	92
69) 1,3,5-Trichlorobenzene	13.839	180	40470	2.477	ug/L	99
70) 1,2,4-trichlorobenzene	13.839	180	40470	3.227	ug/L	98
72) 1,2,3-Trichlorobenzene	14.328	180	11175	1.029	ug/L	95

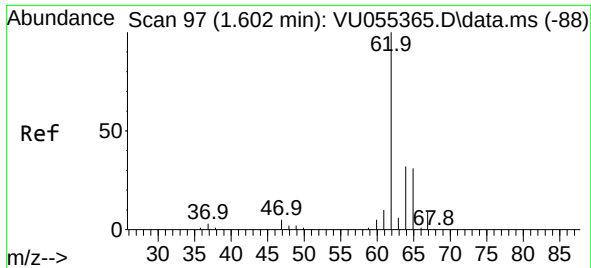
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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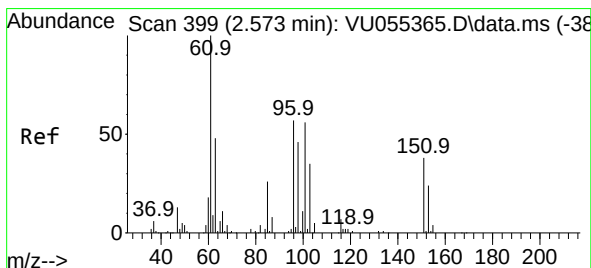
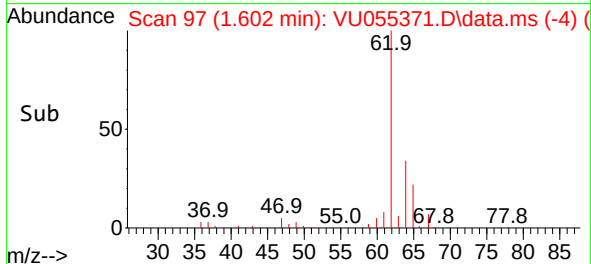
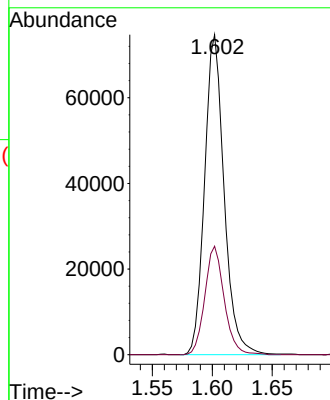
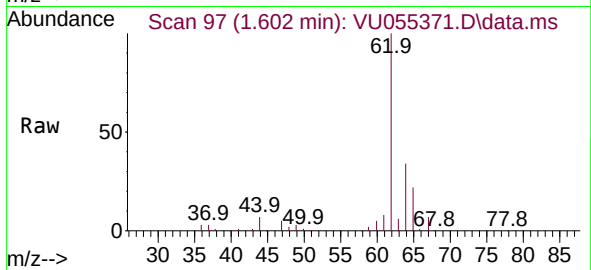




#5
 Vinyl chloride
 Concen: 4.928 ug/L
 RT: 1.602 min Scan# 91
 Delta R.T. -0.000 min
 Lab File: VU055371.D
 Acq: 18 Sep 2023 13:46

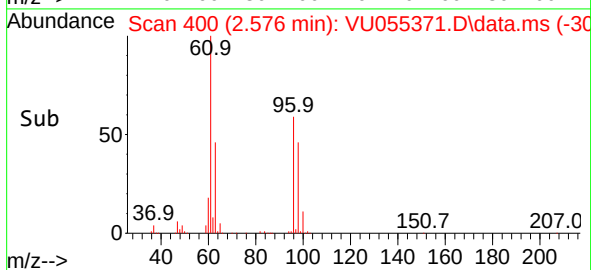
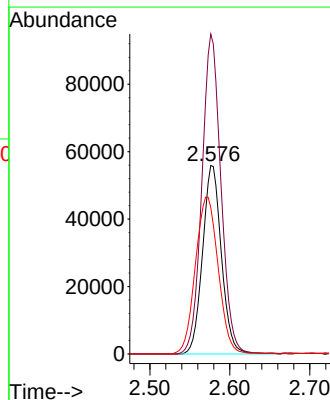
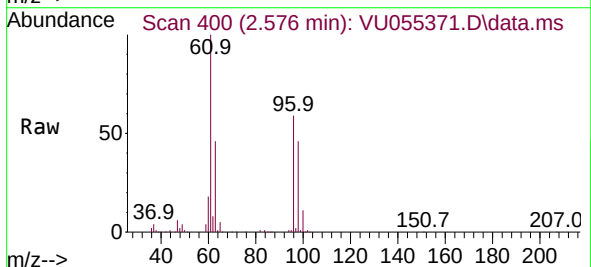
Instrument :
 MSVOA_U
 ClientSampleId :

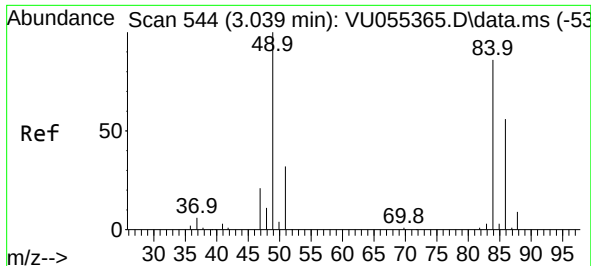
Tgt Ion: 62 Resp: 84730
 Ion Ratio Lower Upper
 62 100
 64 33.9 23.4 43.6



#12
 1,1-Dichloroethene
 Concen: 7.525 ug/L
 RT: 2.576 min Scan# 400
 Delta R.T. 0.003 min
 Lab File: VU055371.D
 Acq: 18 Sep 2023 13:46

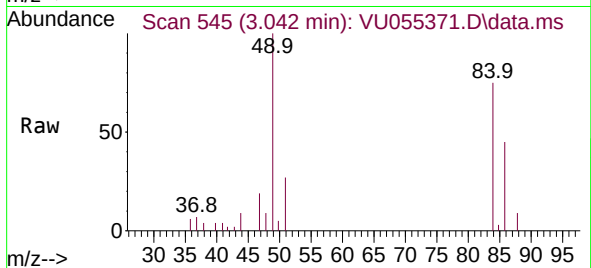
Tgt Ion: 96 Resp: 91733
 Ion Ratio Lower Upper
 96 100
 61 169.8 122.8 228.0
 63 77.6 71.7 133.3





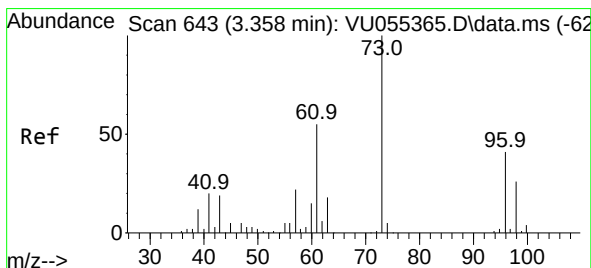
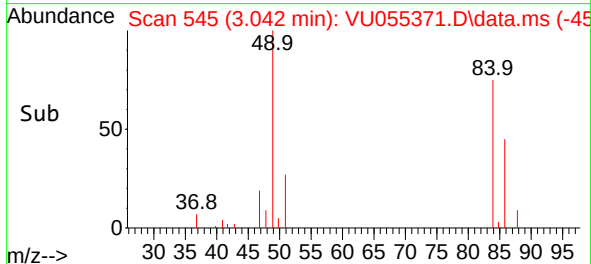
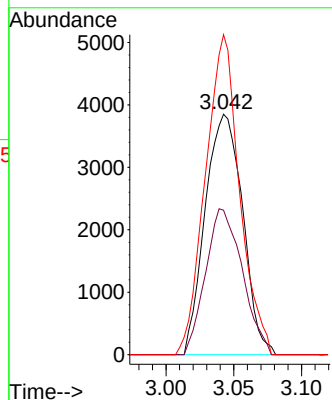
#16
Methylene chloride
Concen: 0.407 ug/L
RT: 3.042 min Scan# 544
Delta R.T. 0.003 min
Lab File: VU055371.D
Acq: 18 Sep 2023 13:46

Instrument :
MSVOA_U
ClientSampleId :



Tgt Ion: 84 Resp: 7397

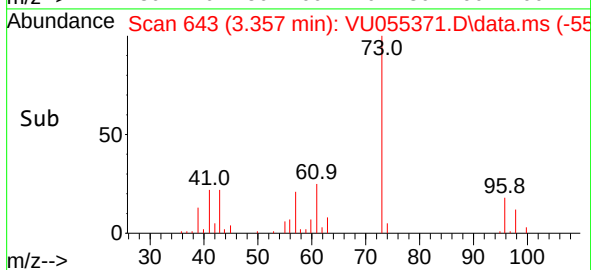
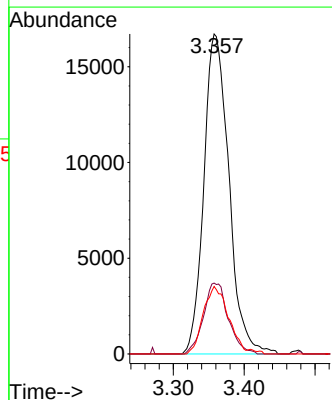
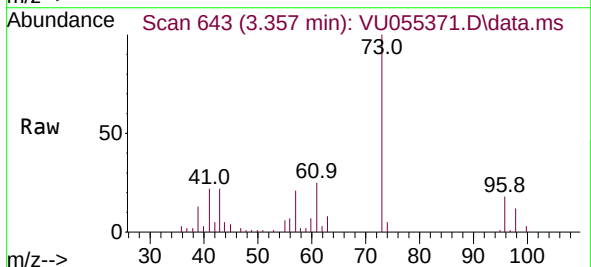
Ion	Ratio	Lower	Upper
84	100		
86	60.1	42.4	78.8
49	140.0	79.9	148.3

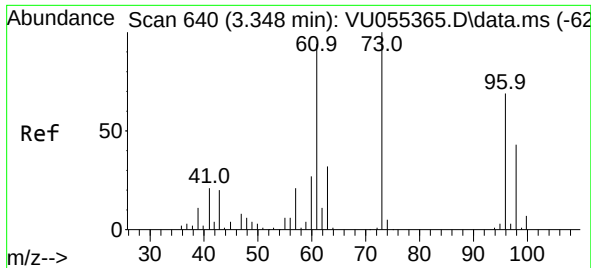


#17
Methyl tert-butyl Ether
Concen: 1.402 ug/L
RT: 3.357 min Scan# 643
Delta R.T. -0.000 min
Lab File: VU055371.D
Acq: 18 Sep 2023 13:46

Tgt Ion: 73 Resp: 40981

Ion	Ratio	Lower	Upper
73	100		
43	22.0	16.0	24.0
57	21.1	17.2	25.8

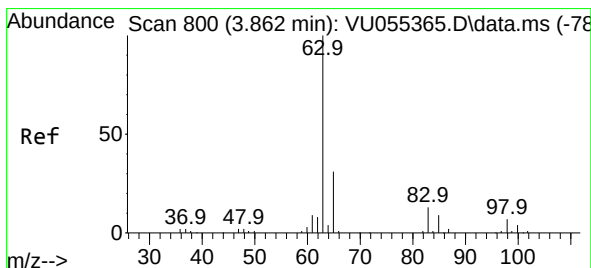
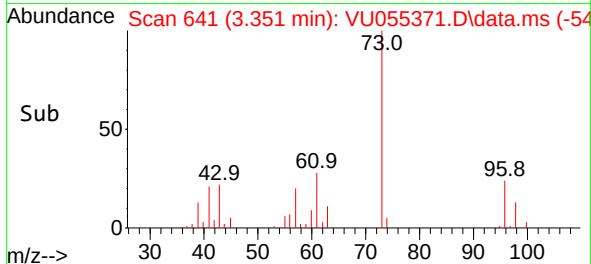
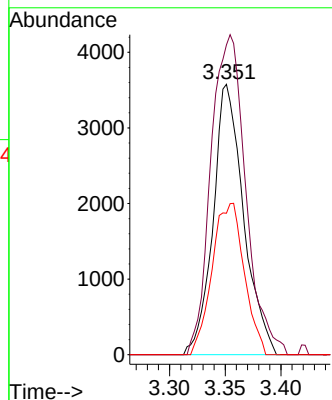
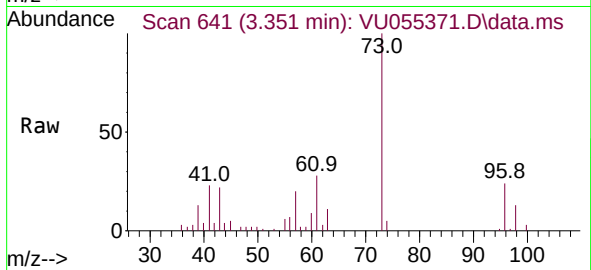




#18
trans-1,2-Dichloroethene
Concen: 0.508 ug/L
RT: 3.351 min Scan# 641
Delta R.T. 0.003 min
Lab File: VU055371.D
Acq: 18 Sep 2023 13:46

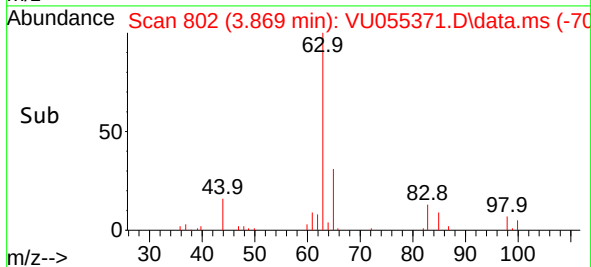
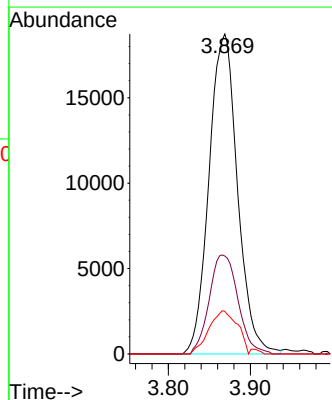
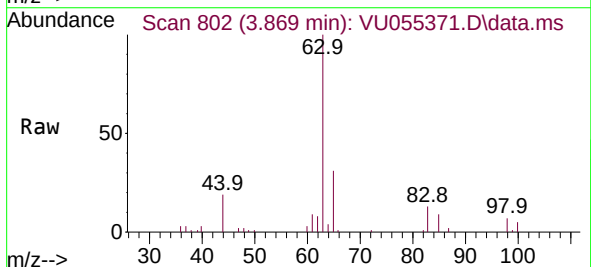
Instrument :
MSVOA_U
ClientSampleId :

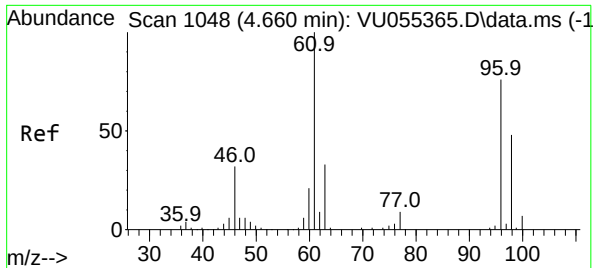
Tgt Ion: 96 Resp: 6813
Ion Ratio Lower Upper
96 100
61 114.6 97.4 181.0
98 52.3 44.6 82.8



#19
1,1-Dichloroethane
Concen: 1.730 ug/L
RT: 3.869 min Scan# 802
Delta R.T. 0.006 min
Lab File: VU055371.D
Acq: 18 Sep 2023 13:46

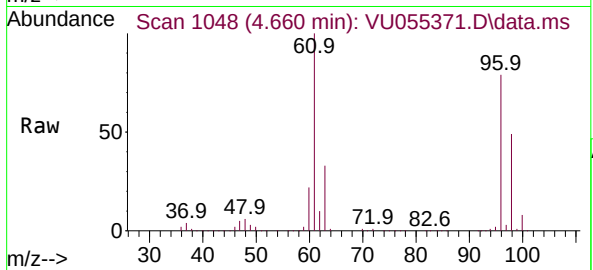
Tgt Ion: 63 Resp: 45124
Ion Ratio Lower Upper
63 100
65 31.2 21.8 40.6
83 13.3 9.7 17.9





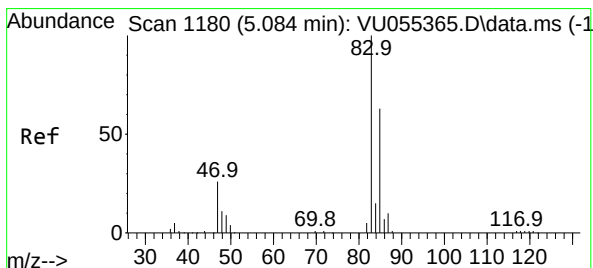
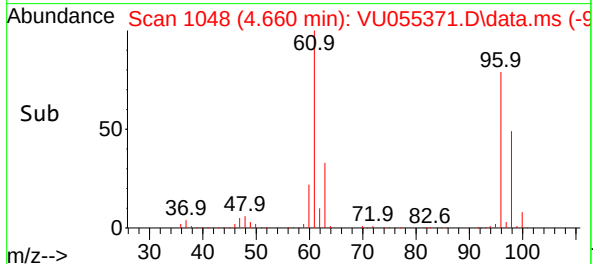
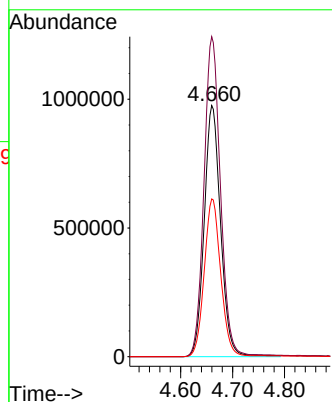
#22
 cis-1,2-Dichloroethene
 Concen: 136.230 ug/L
 RT: 4.660 min Scan# 1048
 Delta R.T. -0.000 min
 Lab File: VU055371.D
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Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion: 96 Resp: 2138724

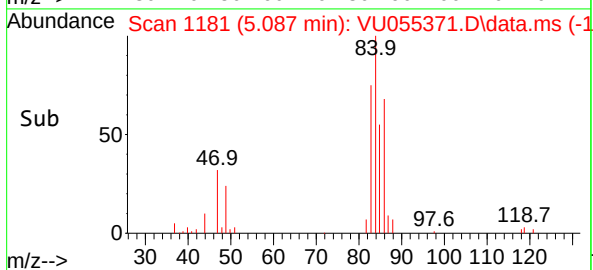
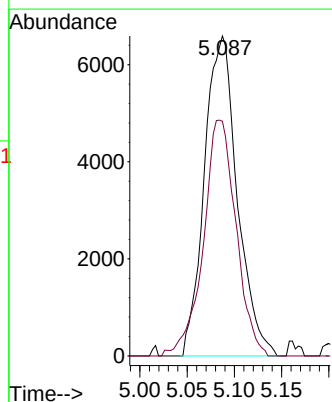
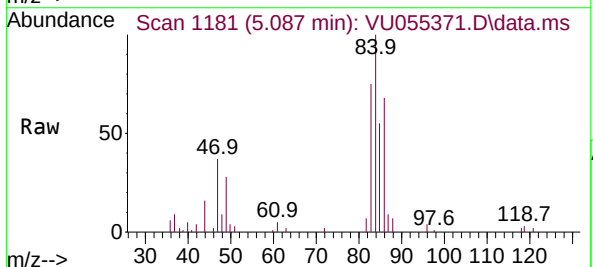
Ion	Ratio	Lower	Upper
96	100		
61	127.4	88.1	163.7
98	62.8	43.5	80.7

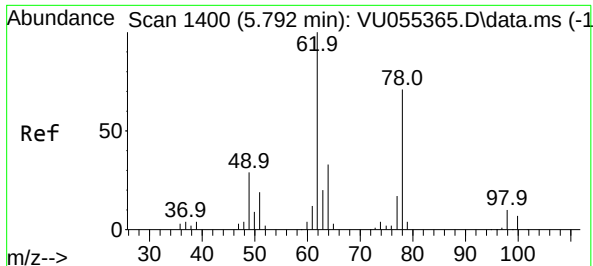


#25
 Chloroform
 Concen: 0.565 ug/L
 RT: 5.087 min Scan# 1181
 Delta R.T. 0.003 min
 Lab File: VU055371.D
 Acq: 18 Sep 2023 13:46

Tgt Ion: 83 Resp: 15951

Ion	Ratio	Lower	Upper
83	100		
85	73.3	44.4	82.4

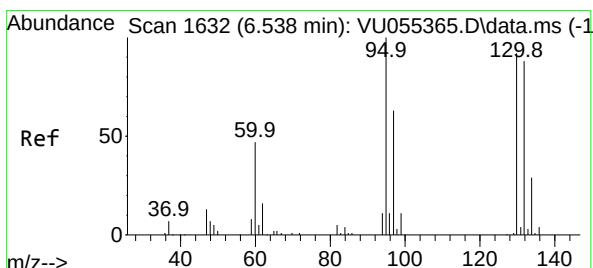
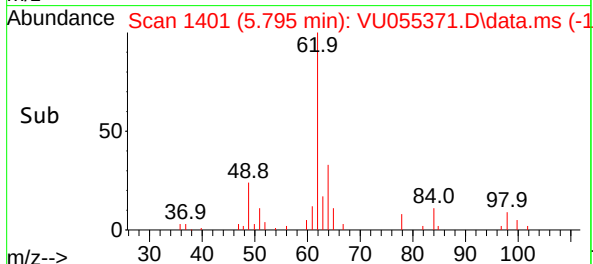
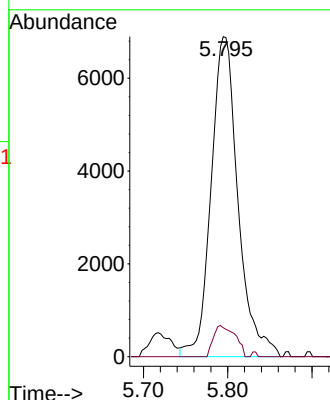
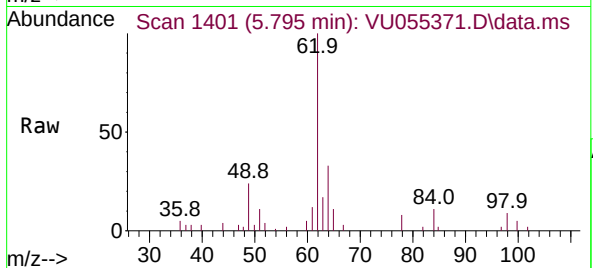




#27
1,2-Dichloroethane
Concen: 0.874 ug/L
RT: 5.795 min Scan# 1400
Delta R.T. 0.003 min
Lab File: VU055371.D
Acq: 18 Sep 2023 13:46

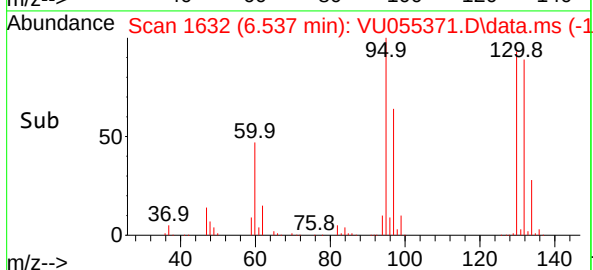
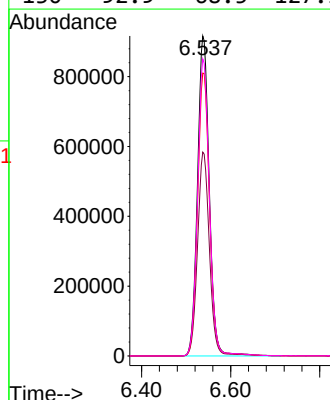
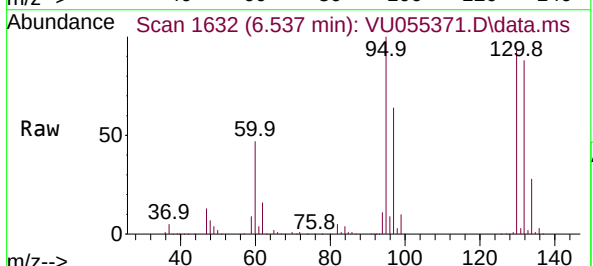
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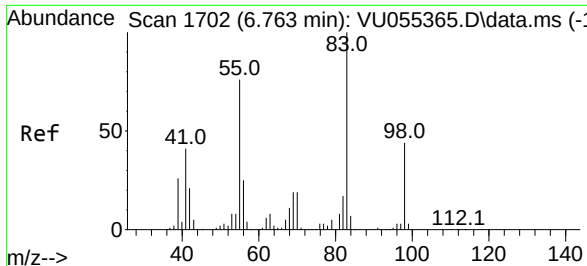
Tgt Ion: 62 Resp: 15308
Ion Ratio Lower Upper
62 100
98 9.1 7.1 10.7



#34
Trichloroethene
Concen: 107.807 ug/L
RT: 6.537 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VU055371.D
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Tgt Ion: 95 Resp: 1696503
Ion Ratio Lower Upper
95 100
97 63.7 47.4 88.0
132 88.4 60.5 112.3
130 92.9 68.5 127.1

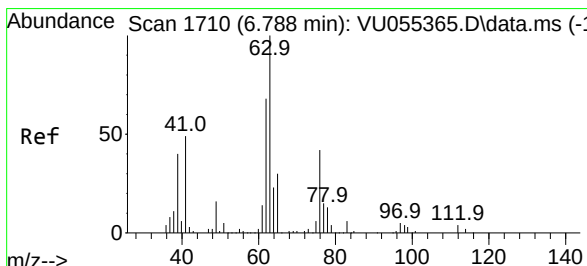
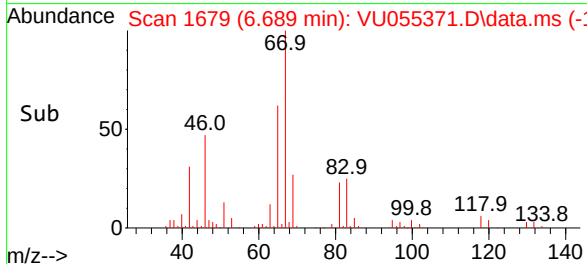
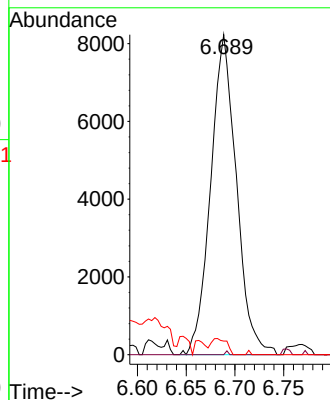
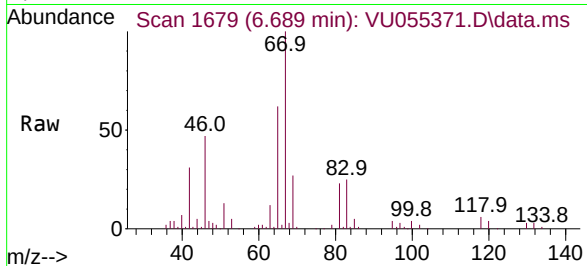




#35
Methylcyclohexane
Concen: 0.662 ug/L
RT: 6.689 min Scan# 1679
Delta R.T. -0.074 min
Lab File: VU055371.D
Acq: 18 Sep 2023 13:46

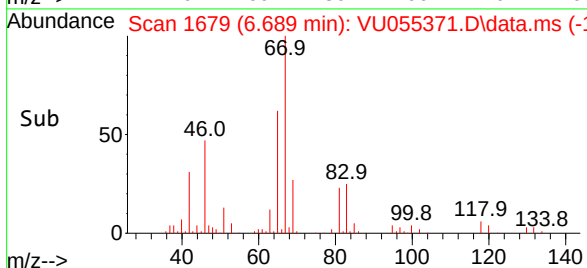
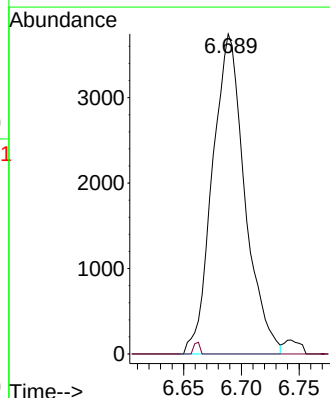
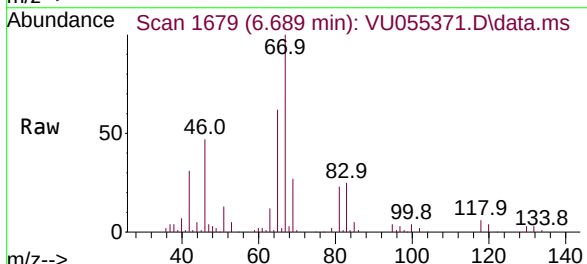
Instrument :
MSVOA_U
ClientSampleId :

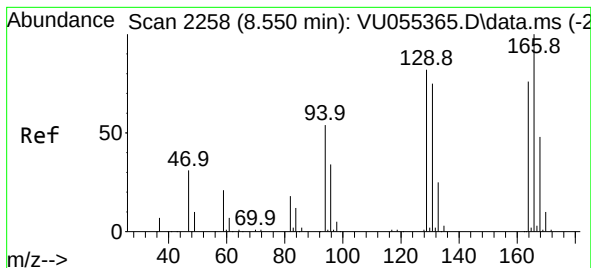
Tgt Ion: 83 Resp: 15151
Ion Ratio Lower Upper
83 100
55 0.1 58.7 88.1#
98 27.1 36.3 54.5#



#37
1,2-Dichloropropane
Concen: 0.503 ug/L
RT: 6.689 min Scan# 1679
Delta R.T. -0.100 min
Lab File: VU055371.D
Acq: 18 Sep 2023 13:46

Tgt Ion: 63 Resp: 7302
Ion Ratio Lower Upper
63 100
112 0.7 3.0 4.4#





#47

Tetrachloroethene

Concen: 2.033 ug/L

RT: 8.550 min Scan# 21925

Delta R.T. -0.000 min

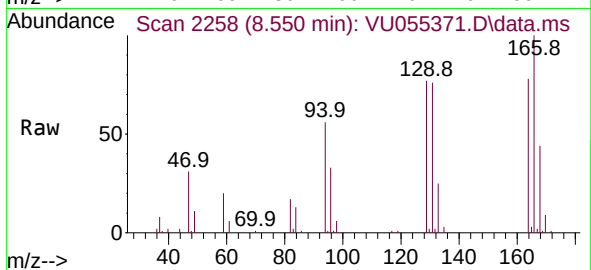
Lab File: VU055371.D

Acq: 18 Sep 2023 13:46

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:164 Resp: 21925

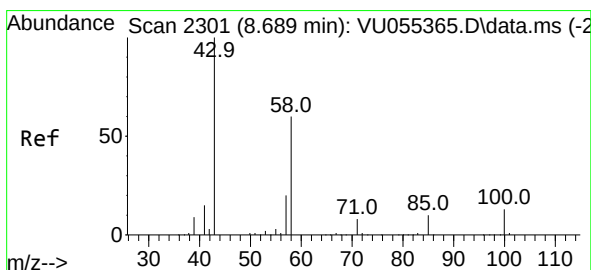
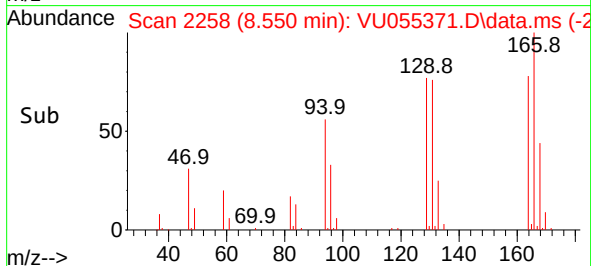
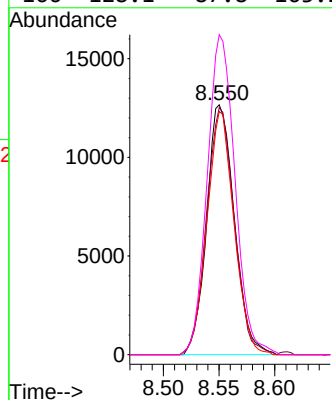
Ion Ratio Lower Upper

164 100

129 98.9 76.3 141.7

131 97.3 69.1 128.3

166 128.1 87.8 163.2



#48

2-Hexanone

Concen: 3.233 ug/L

RT: 8.682 min Scan# 2299

Delta R.T. -0.007 min

Lab File: VU055371.D

Acq: 18 Sep 2023 13:46

Tgt Ion: 43 Resp: 16787

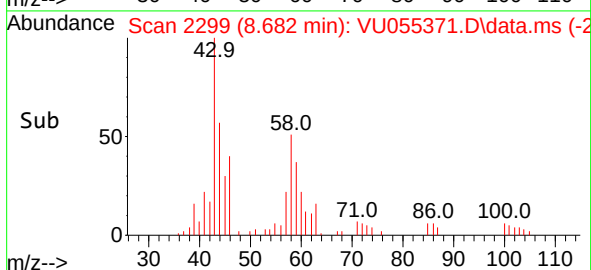
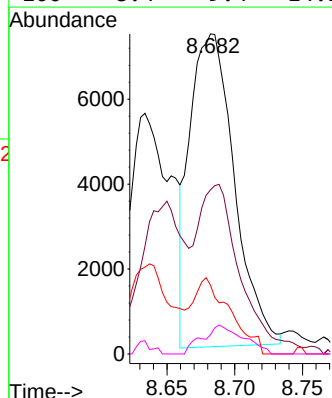
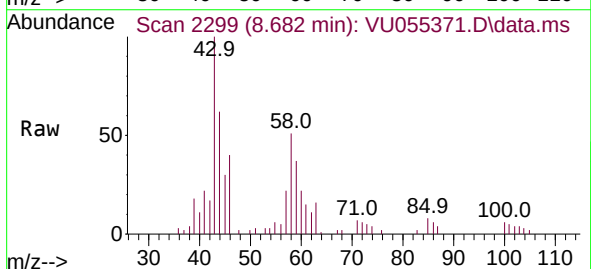
Ion Ratio Lower Upper

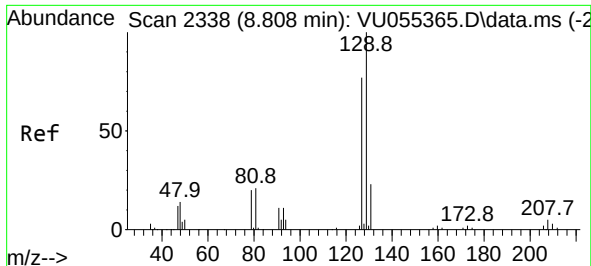
43 100

58 49.6 47.8 71.6

57 20.5 15.4 23.2

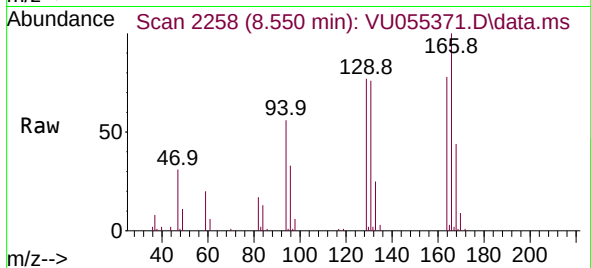
100 8.4 9.4 14.2#



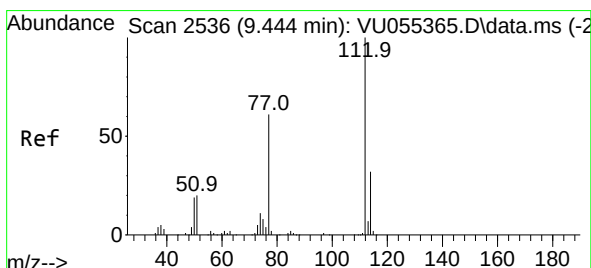
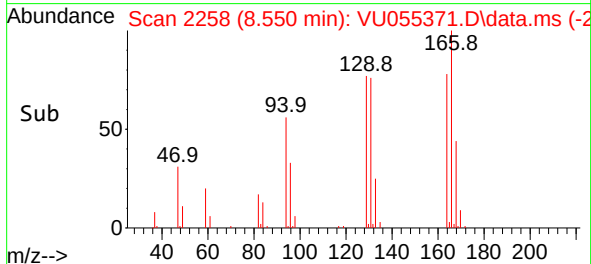
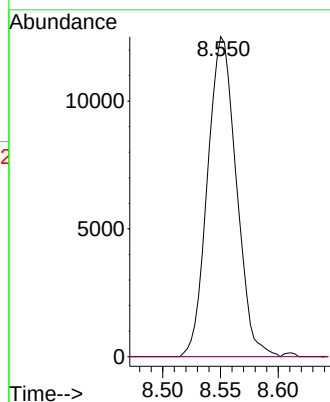


#49
Dibromochloromethane
Concen: 2.112 ug/L
RT: 8.550 min Scan# 21749
Delta R.T. -0.257 min
Lab File: VU055371.D
Acq: 18 Sep 2023 13:46

Instrument :
MSVOA_U
ClientSampleId :

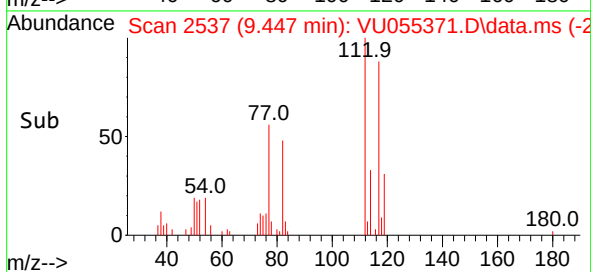
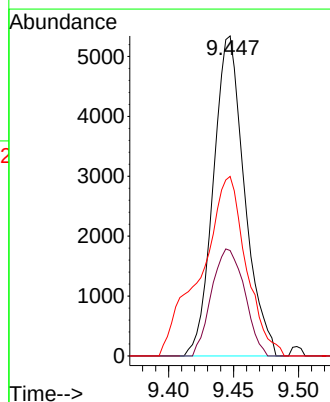
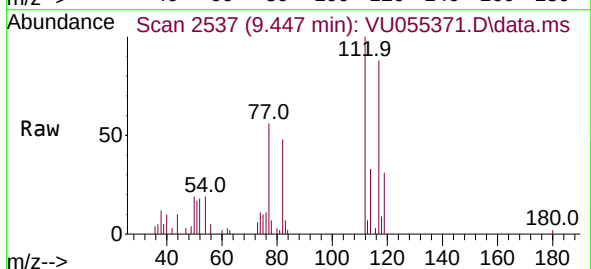


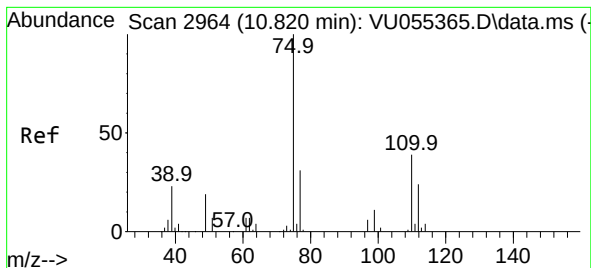
Tgt Ion:129 Resp: 21749
Ion Ratio Lower Upper
129 100
127 0.0 53.4 99.2#



#51
Chlorobenzene
Concen: 0.228 ug/L
RT: 9.447 min Scan# 2537
Delta R.T. 0.003 min
Lab File: VU055371.D
Acq: 18 Sep 2023 13:46

Tgt Ion:112 Resp: 8899
Ion Ratio Lower Upper
112 100
114 30.9 21.8 40.6
77 52.6 47.4 71.0





#61

1,2,3-Trichloropropane

Concen: 0.382 ug/L

RT: 11.749 min Scan# 31

Delta R.T. 0.929 min

Lab File: VU055371.D

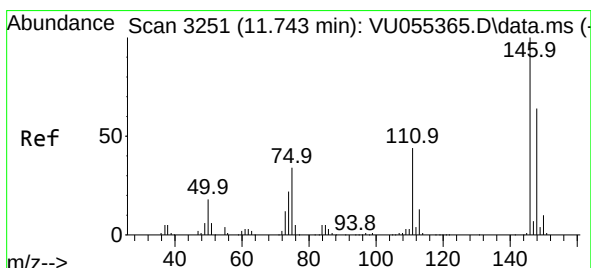
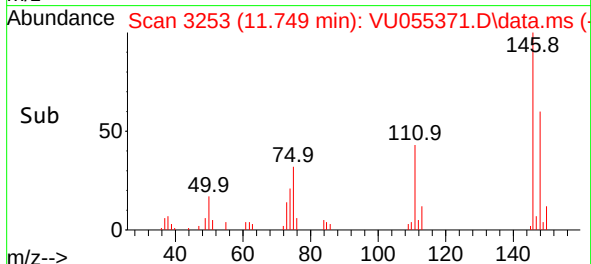
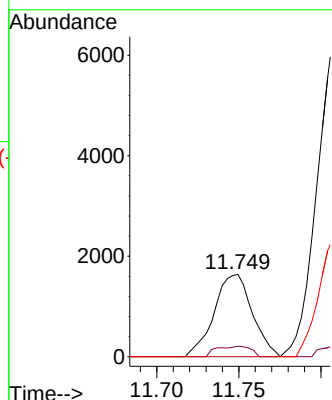
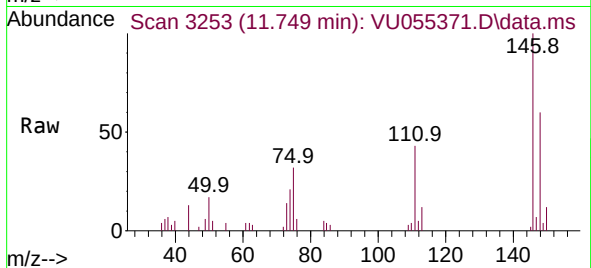
Acq: 18 Sep 2023 13:46

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:	75	Resp:	2639
Ion	Ratio	Lower	Upper
75	100		
110	11.4	31.4	47.2#
77	0.0	26.0	39.0#



#64

1,3-Dichlorobenzene

Concen: 0.351 ug/L

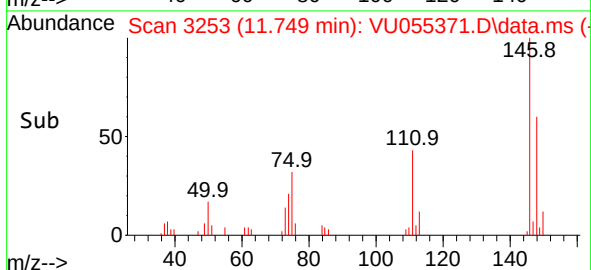
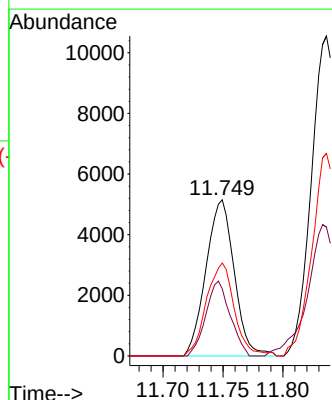
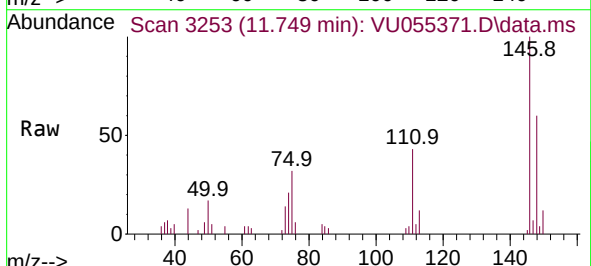
RT: 11.749 min Scan# 3253

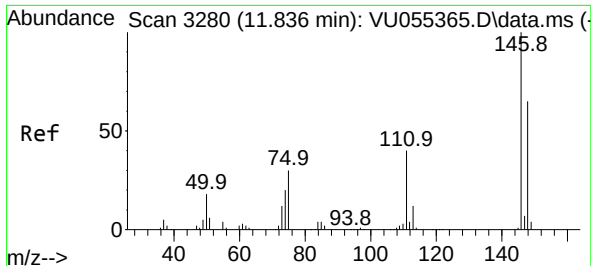
Delta R.T. 0.006 min

Lab File: VU055371.D

Acq: 18 Sep 2023 13:46

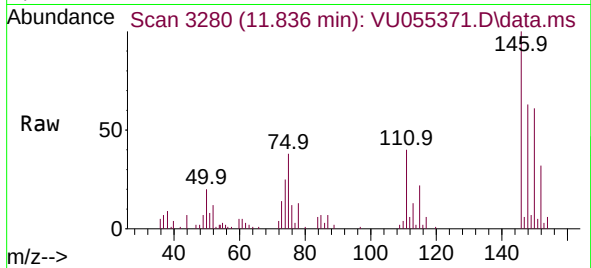
Tgt Ion:	146	Resp:	8431
Ion	Ratio	Lower	Upper
146	100		
111	43.0	30.4	56.4
148	59.5	44.9	83.5



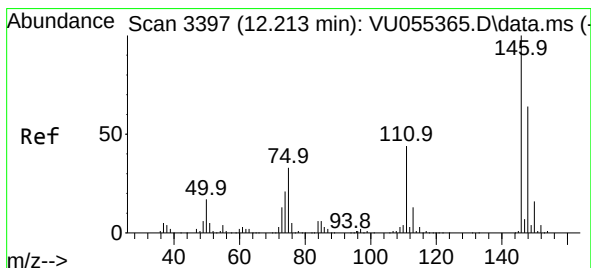
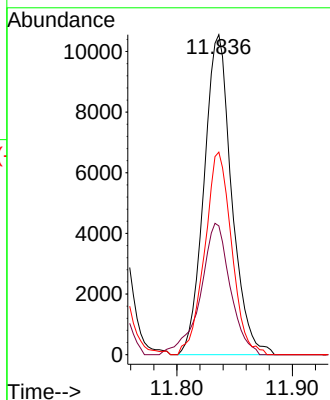
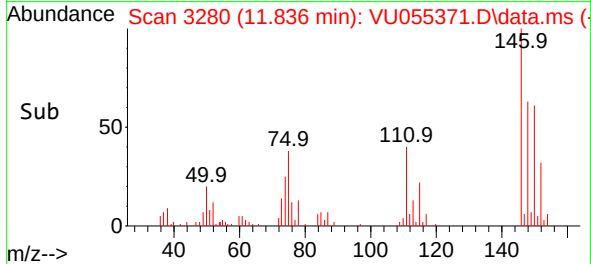


#65
1,4-Dichlorobenzene
Concen: 0.747 ug/L
RT: 11.836 min Scan# 31
Delta R.T. -0.000 min
Lab File: VU055371.D
Acq: 18 Sep 2023 13:46

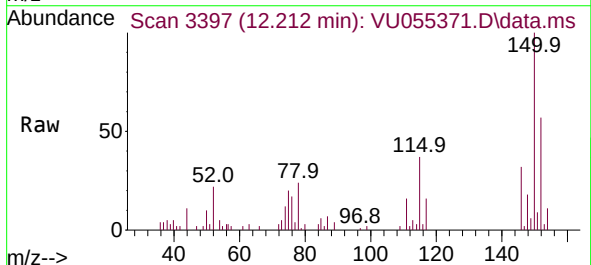
Instrument :
MSVOA_U
ClientSampleId :



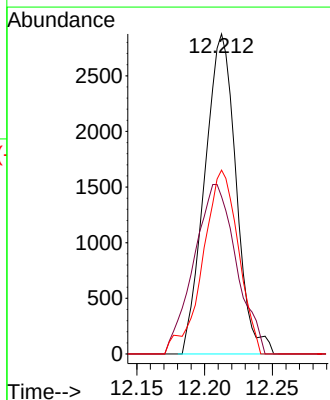
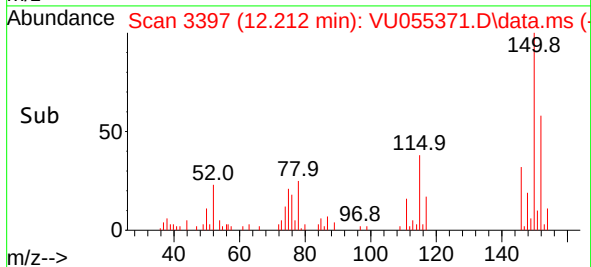
Tgt Ion:146 Resp: 17508
Ion Ratio Lower Upper
146 100
111 40.3 28.7 53.3
148 63.3 43.5 80.9

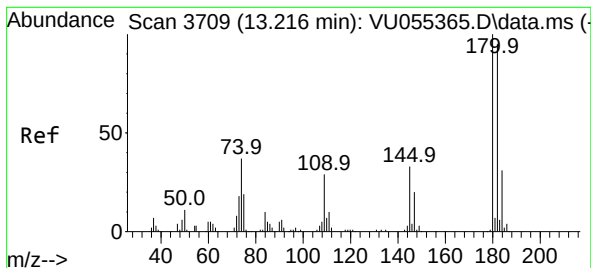


#67
1,2-Dichlorobenzene
Concen: 0.215 ug/L
RT: 12.212 min Scan# 3397
Delta R.T. -0.000 min
Lab File: VU055371.D
Acq: 18 Sep 2023 13:46



Tgt Ion:146 Resp: 4619
Ion Ratio Lower Upper
146 100
111 49.2 35.4 53.0
148 57.4 51.4 77.2





#69

1,3,5-Trichlorobenzene

Concen: 2.477 ug/L

RT: 13.839 min Scan# 3903

Delta R.T. 0.624 min

Lab File: VU055371.D

Acq: 18 Sep 2023 13:46

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:180 Resp: 40470

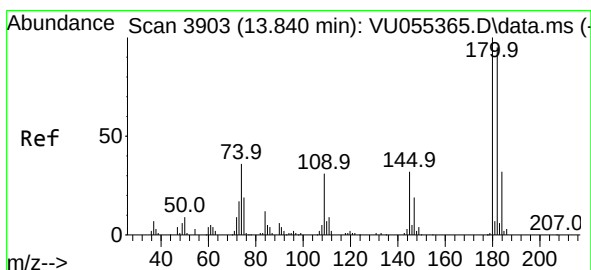
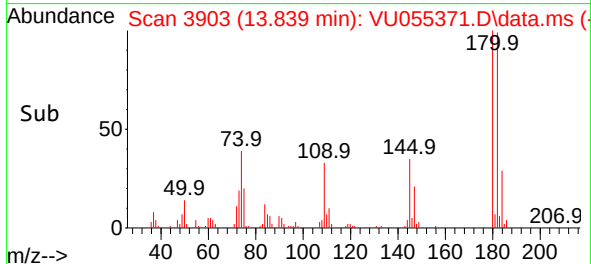
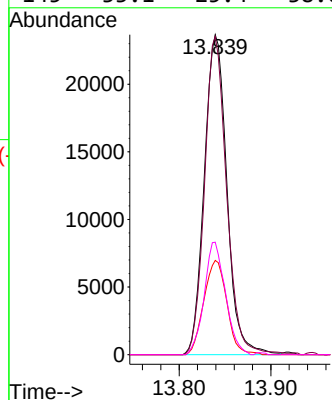
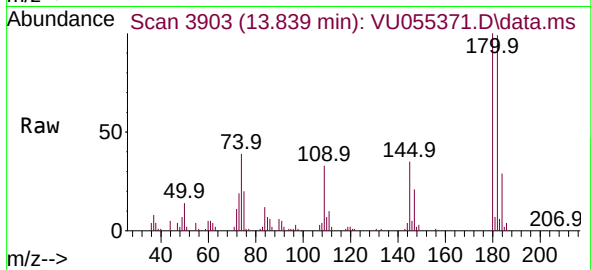
Ion Ratio Lower Upper

180 100

182 96.9 77.4 116.2

184 30.1 24.5 36.7

145 33.1 25.4 38.0



#70

1,2,4-trichlorobenzene

Concen: 3.227 ug/L

RT: 13.839 min Scan# 3903

Delta R.T. -0.000 min

Lab File: VU055371.D

Acq: 18 Sep 2023 13:46

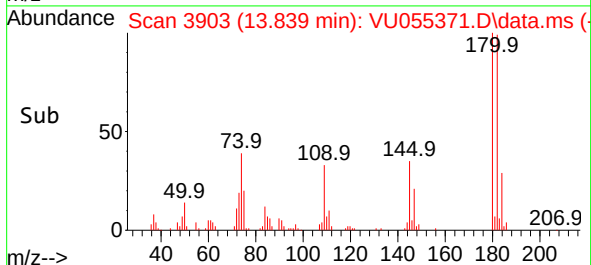
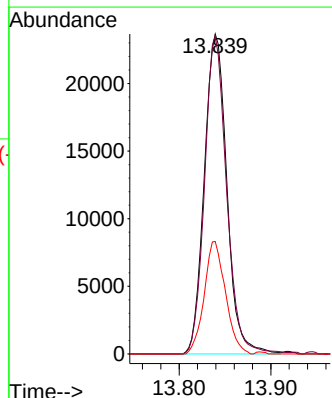
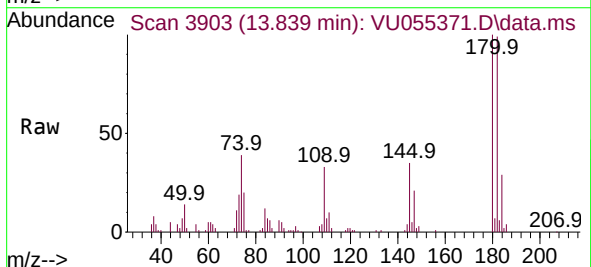
Tgt Ion:180 Resp: 40470

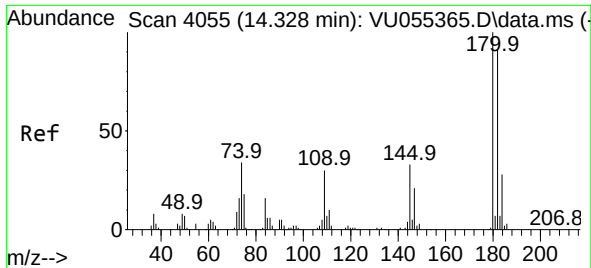
Ion Ratio Lower Upper

180 100

182 96.9 76.3 114.5

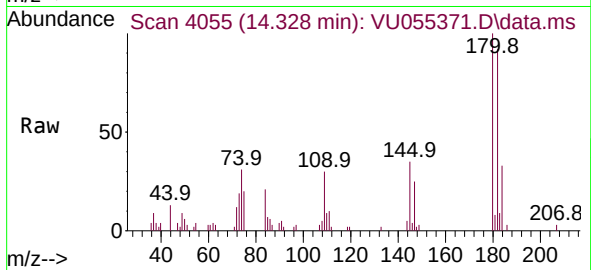
145 33.1 25.8 38.8





#72
 1,2,3-Trichlorobenzene
 Concen: 1.029 ug/L
 RT: 14.328 min Scan# 4055
 Delta R.T. -0.000 min
 Lab File: VU055371.D
 Acq: 18 Sep 2023 13:46

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion:	180	Resp:	11175
Ion	Ratio	Lower	Upper
180	100		
182	98.9	74.6	112.0
145	35.9	27.3	40.9

