

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU090523\
 Data File : VU055118.D
 Acq On : 06 Sep 2023 01:25
 Operator : MD/SY
 Sample : 04250-19
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Sep 06 05:26:14 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR090123WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Sep 06 05:03:37 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.248	114	183999	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.415	117	188783	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.810	152	104128	5.000	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.595	65	81521	9.453	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	189.000%#
7) Chloroethane-d5	1.907	69	42209	4.228	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	84.600%
11) 1,1-Dichloroethene-d2	2.560	65	22122	4.502	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	90.000%
20) 2-Butanone-d5	4.631	46	152802	61.059	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	122.120%
24) Chloroform-d	5.058	84	110570	4.832	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.600%
26) 1,2-Dichloroethane-d4	5.701	65	58170	5.081	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.600%
32) Benzene-d6	5.724	84	216416	4.644	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.800%
36) 1,2-Dichloropropane-d6	6.688	67	71563	4.828	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	96.600%
41) Toluene-d8	7.897	98	191186	4.454	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.000%
43) trans-1,3-Dichloroprop...	8.180	79	18030	4.417	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	88.400%
46) 2-Hexanone-d5	8.634	63	88539	53.431	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	106.860%
56) 1,1,2,2-Tetrachloroeth...	10.756	84	57405	5.507	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	110.200%
66) 1,2-Dichlorobenzene-d4	12.193	152	74942	4.931	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	98.600%

Target Compounds

						Qvalue
3) Chloromethane	1.599	50	42181	3.875	ug/L #	44
5) Vinyl chloride	1.599	62	6220134	541.668	ug/L	95
8) Chloroethane	1.743	64	5681	0.760	ug/L #	43
12) 1,1-Dichloroethene	2.576	96	30296	3.561	ug/L	98
17) Methyl tert-butyl Ether	3.361	73	8138	0.365	ug/L	97
18) trans-1,2-Dichloroethene	3.351	96	48580	5.629	ug/L	96
22) cis-1,2-Dichloroethene	4.663	96	18542439	1755.125	ug/L	78
25) Chloroform	5.084	83	18135	0.934	ug/L	99
27) 1,2-Dichloroethane	5.798	62	10828	0.913	ug/L	98
33) Benzene	5.775	78	34344	0.855	ug/L	100
34) Trichloroethene	6.544	95	14997146	1343.062	ug/L	94
35) Methylcyclohexane	6.688	83	17872	1.141	ug/L #	20
37) 1,2-Dichloropropane	6.688	63	8335	0.762	ug/L #	89
45) 1,1,2-Trichloroethane	8.402	97	25307	3.435	ug/L	94
47) Tetrachloroethene	8.553	164	3894	0.505	ug/L	93
48) 2-Hexanone	8.682	43	17530	3.587	ug/L #	83
49) Dibromochloromethane	8.557	129	3771	0.469	ug/L #	9
51) Chlorobenzene	9.444	112	470879	16.599	ug/L	98
61) 1,2,3-Trichloropropane	11.746	75	30757	4.451	ug/L #	50

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Quant Title : TRACE VOA SFAM1.0
QLast Update : Wed Sep 06 05:03:37 2023
Response via : Initial Calibration

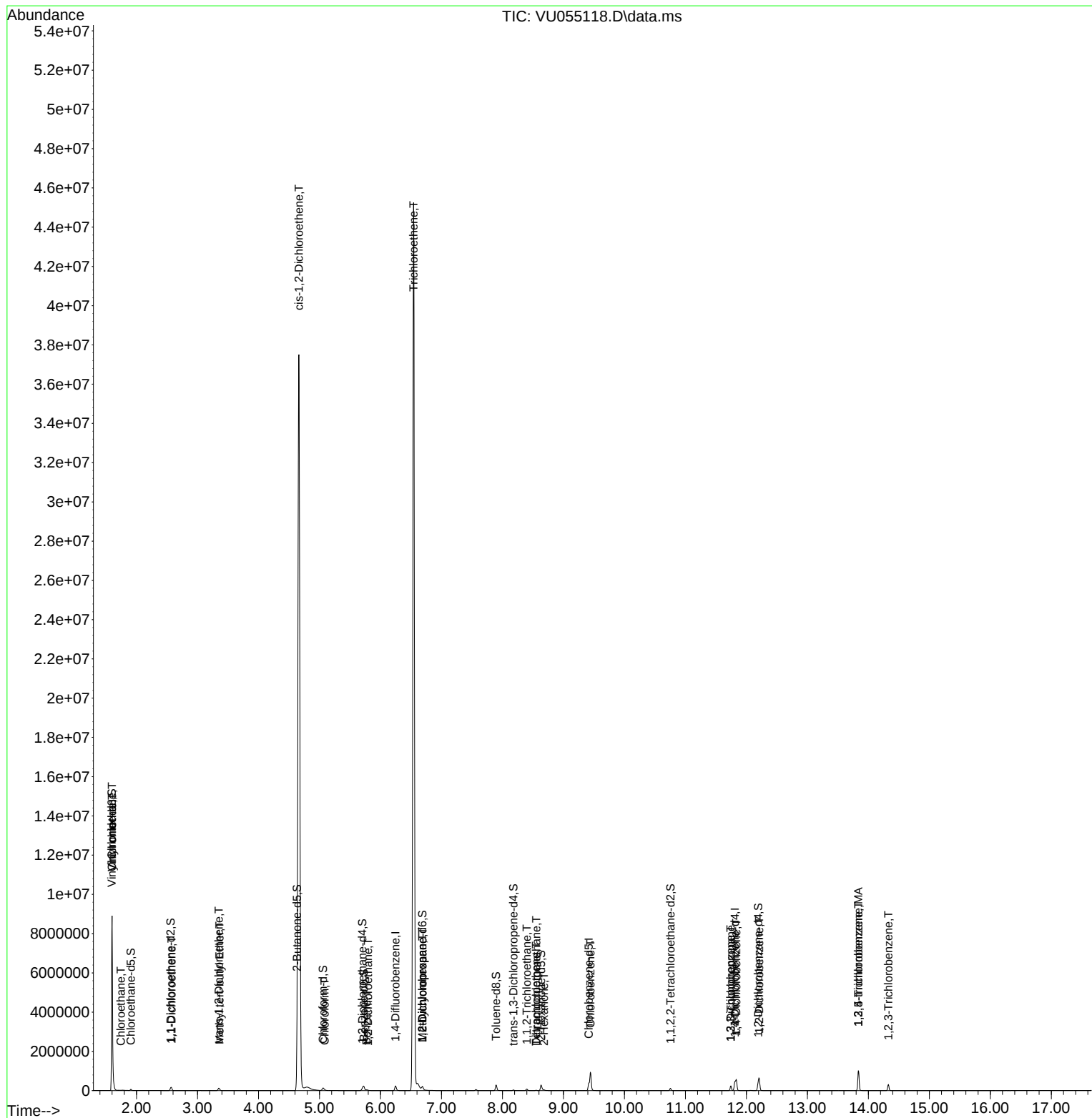
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
64) 1,3-Dichlorobenzene	11.743	146	92006	3.947	ug/L	99
65) 1,4-Dichlorobenzene	11.836	146	202530	8.718	ug/L	97
67) 1,2-Dichlorobenzene	12.209	146	215768	9.873	ug/L	100
69) 1,3,5-Trichlorobenzene	13.839	180	283060	16.069	ug/L	99
70) 1,2,4-trichlorobenzene	13.839	180	283060	17.137	ug/L	97
72) 1,2,3-Trichlorobenzene	14.328	180	87119	6.077	ug/L	99

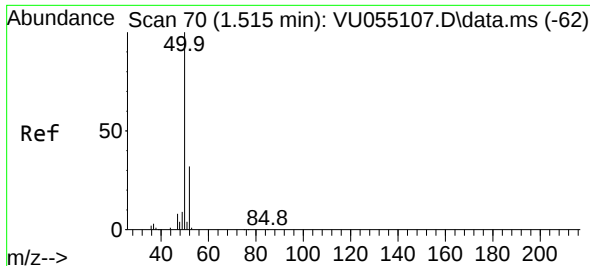
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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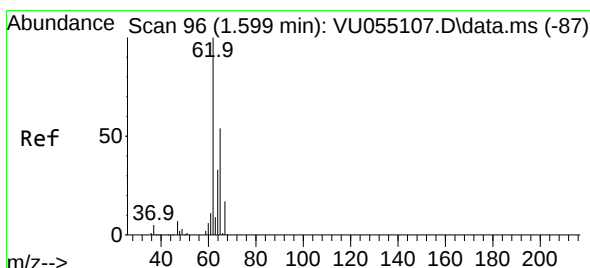
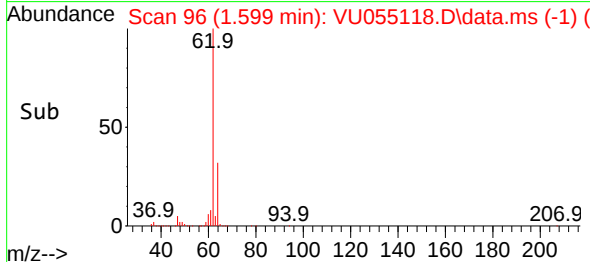
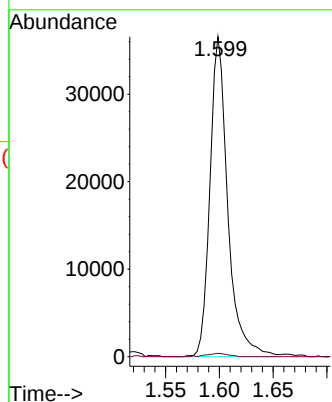
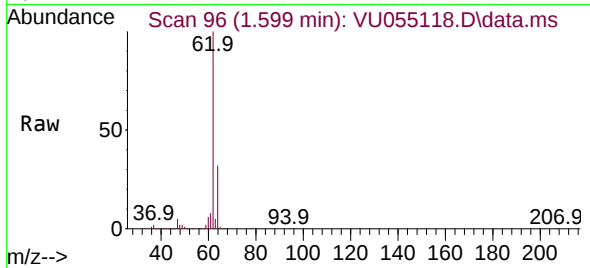




#3
Chloromethane
Concen: 3.875 ug/L
RT: 1.599 min Scan# 90
Delta R.T. 0.084 min
Lab File: VU055118.D
Acq: 06 Sep 2023 01:25

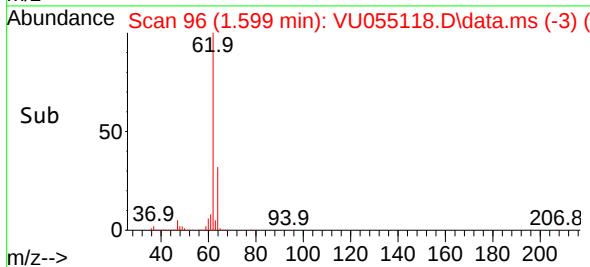
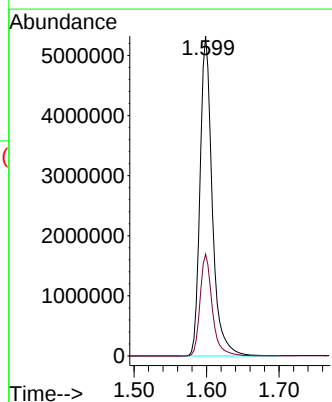
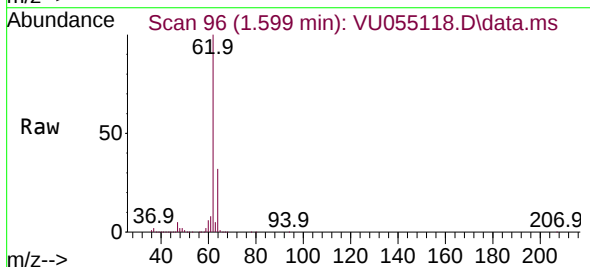
Instrument :
MSVOA_U
ClientSampleId :

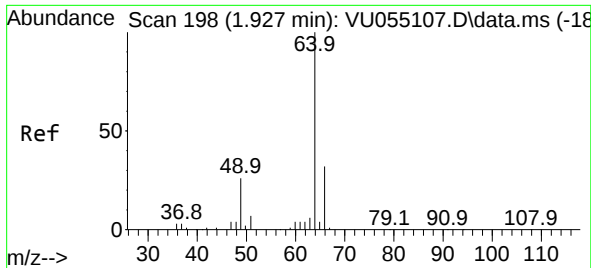
Tgt Ion: 50 Resp: 42181
Ion Ratio Lower Upper
50 100
52 1.0 22.5 41.7#



#5
Vinyl chloride
Concen: 541.668 ug/L
RT: 1.599 min Scan# 96
Delta R.T. -0.000 min
Lab File: VU055118.D
Acq: 06 Sep 2023 01:25

Tgt Ion: 62 Resp: 6220134
Ion Ratio Lower Upper
62 100
64 31.8 24.2 45.0

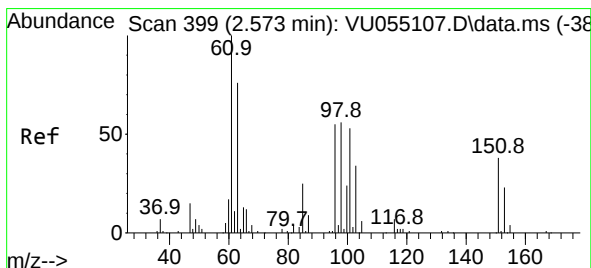
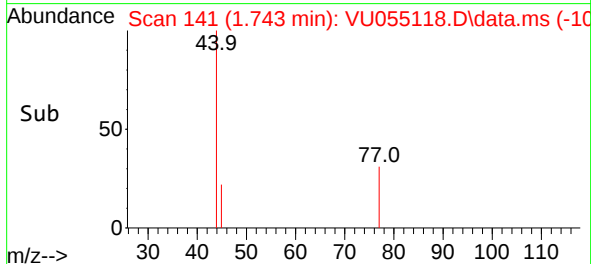
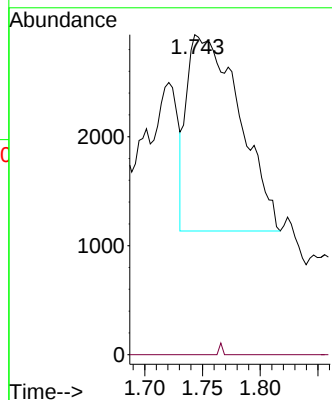
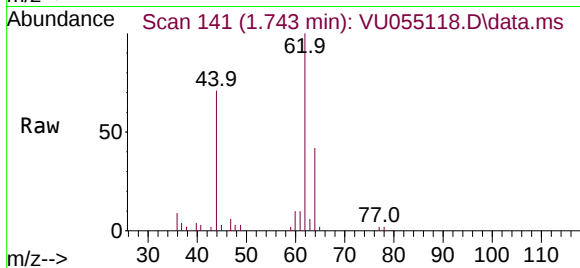




#8
Chloroethane
Concen: 0.760 ug/L
RT: 1.743 min Scan# 14
Delta R.T. -0.183 min
Lab File: VU055118.D
Acq: 06 Sep 2023 01:25

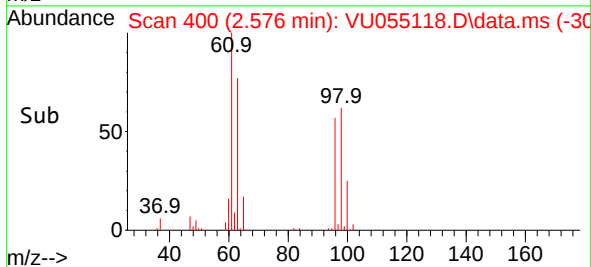
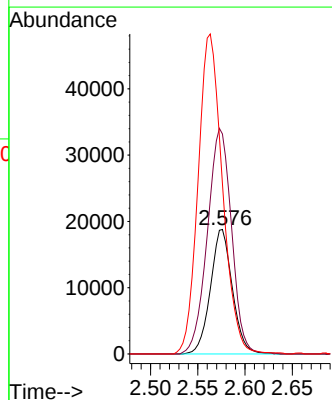
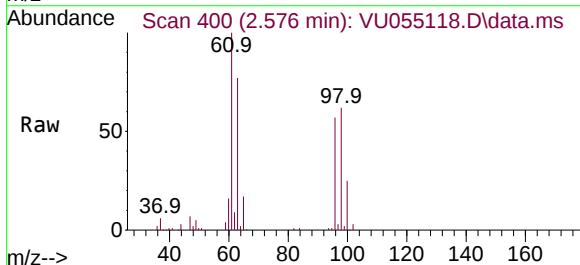
Instrument :
MSVOA_U
ClientSampleId :

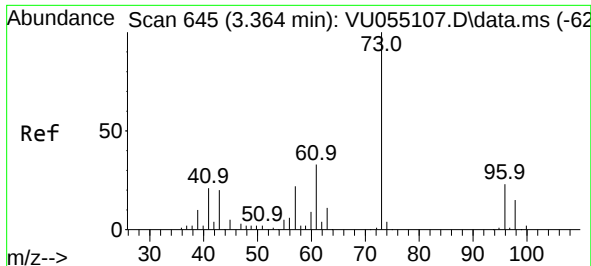
Tgt Ion: 64 Resp: 5681
Ion Ratio Lower Upper
64 100
66 0.0 22.4 41.6#



#12
1,1-Dichloroethene
Concen: 3.561 ug/L
RT: 2.576 min Scan# 400
Delta R.T. 0.003 min
Lab File: VU055118.D
Acq: 06 Sep 2023 01:25

Tgt Ion: 96 Resp: 30296
Ion Ratio Lower Upper
96 100
61 176.7 120.8 224.4
63 136.7 94.5 175.5

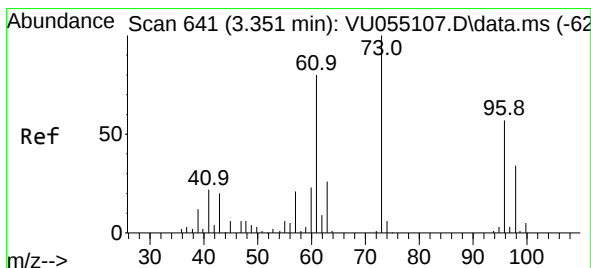
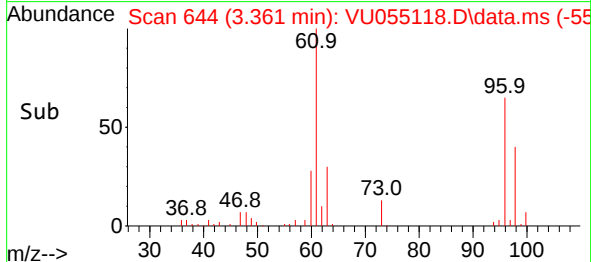
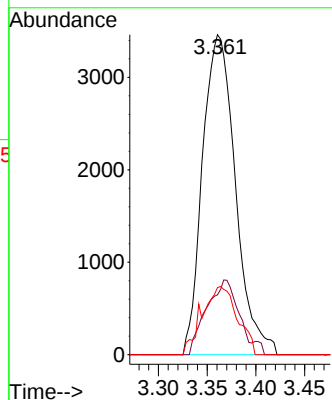
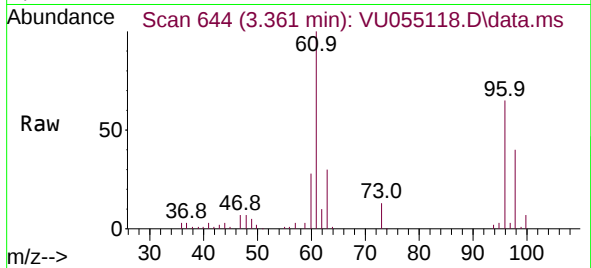




#17
Methyl tert-butyl Ether
Concen: 0.365 ug/L
RT: 3.361 min Scan# 645
Delta R.T. -0.003 min
Lab File: VU055118.D
Acq: 06 Sep 2023 01:25

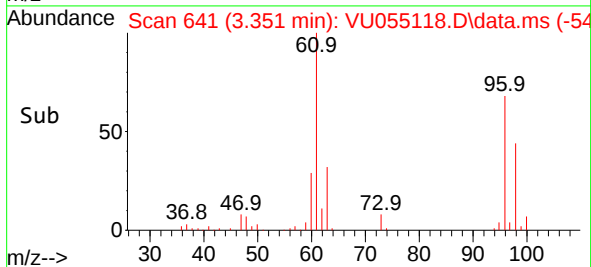
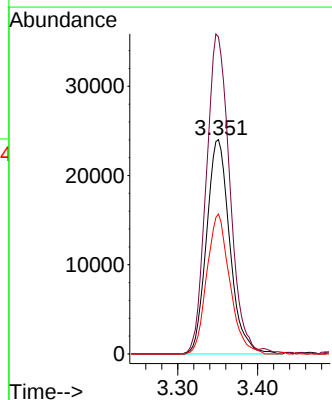
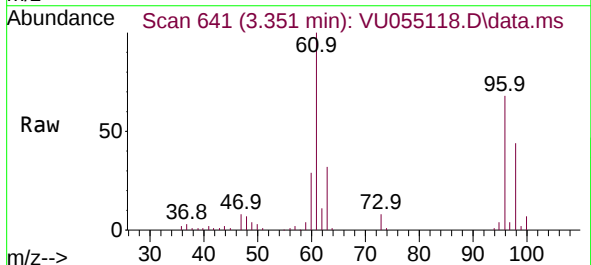
Instrument :
MSVOA_U
ClientSampleId :

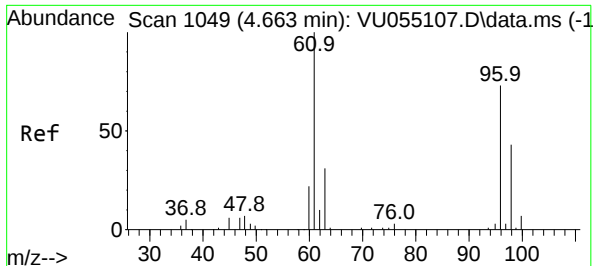
Tgt Ion: 73 Resp: 8138
Ion Ratio Lower Upper
73 100
43 22.5 16.2 24.2
57 22.7 17.4 26.2



#18
trans-1,2-Dichloroethene
Concen: 5.629 ug/L
RT: 3.351 min Scan# 641
Delta R.T. -0.000 min
Lab File: VU055118.D
Acq: 06 Sep 2023 01:25

Tgt Ion: 96 Resp: 48580
Ion Ratio Lower Upper
96 100
61 147.9 108.1 200.9
98 65.3 45.4 84.4



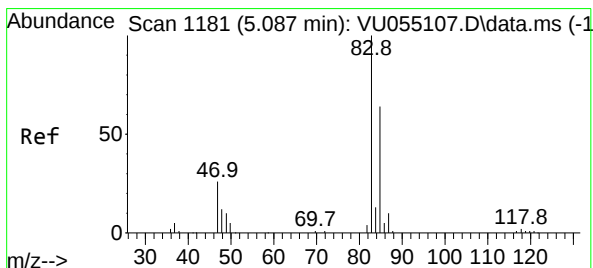
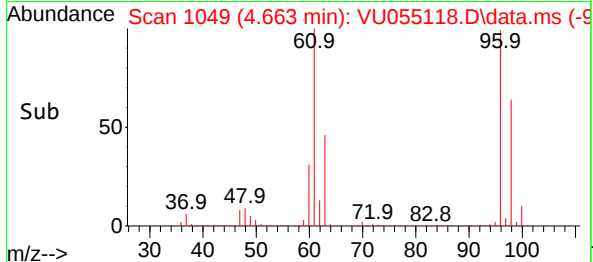
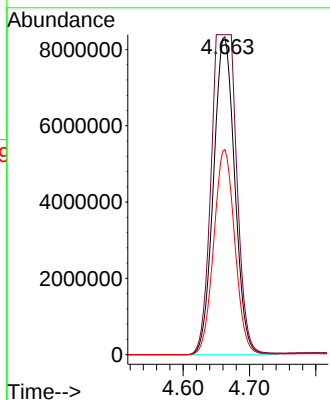
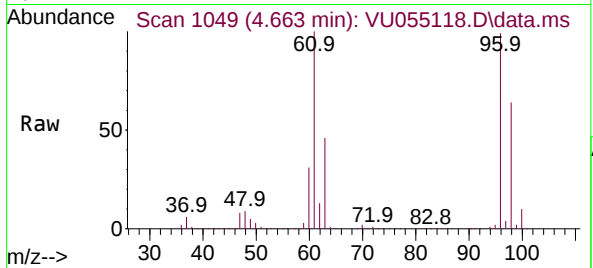


#22
 cis-1,2-Dichloroethene
 Concen: 1755.125 ug/L
 RT: 4.663 min Scan# 1049
 Delta R.T. -0.000 min
 Lab File: VU055118.D
 Acq: 06 Sep 2023 01:25

Instrument :
 MSVOA_U
 ClientSampleId :

Tgt Ion: 96 Resp:18542439

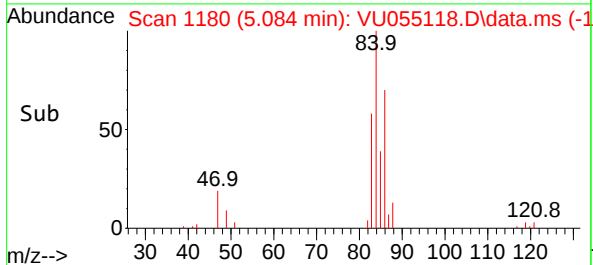
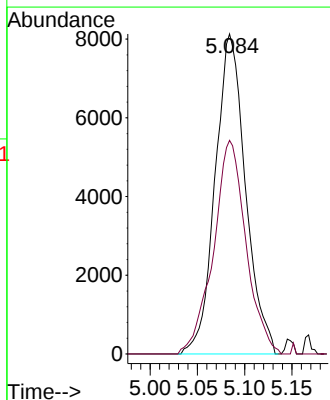
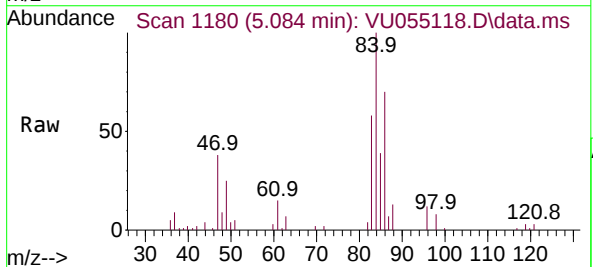
Ion	Ratio	Lower	Upper
96	100		
61	100.7	97.2	180.4
98	64.6	46.1	85.7

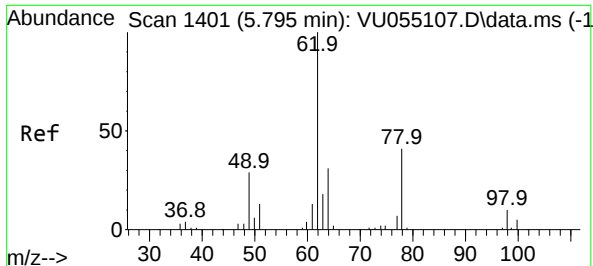


#25
 Chloroform
 Concen: 0.934 ug/L
 RT: 5.084 min Scan# 1180
 Delta R.T. -0.003 min
 Lab File: VU055118.D
 Acq: 06 Sep 2023 01:25

Tgt Ion: 83 Resp: 18135

Ion	Ratio	Lower	Upper
83	100		
85	66.8	47.2	87.6





#27

1,2-Dichloroethane

Concen: 0.913 ug/L

RT: 5.798 min Scan# 1401

Delta R.T. 0.003 min

Lab File: VU055118.D

Acq: 06 Sep 2023 01:25

Instrument :

MSVOA_U

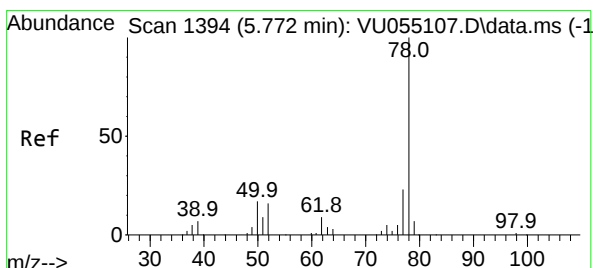
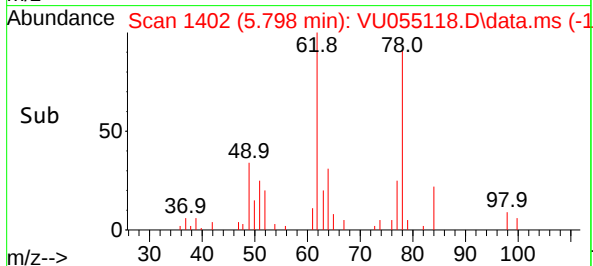
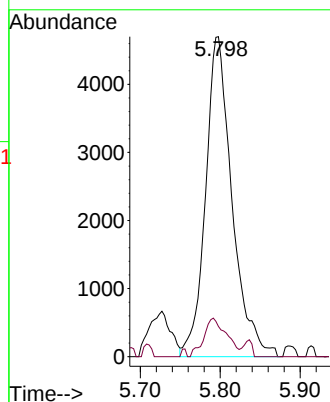
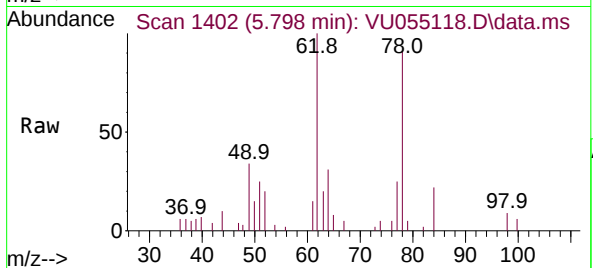
ClientSampleId :

Tgt Ion: 62 Resp: 10828

Ion Ratio Lower Upper

62 100

98 9.4 6.9 10.3



#33

Benzene

Concen: 0.855 ug/L

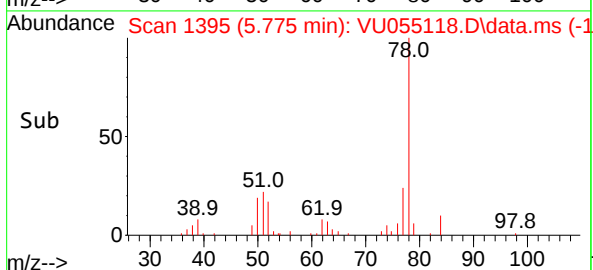
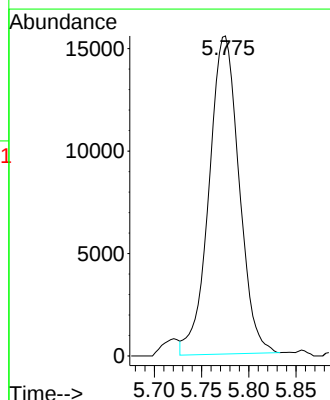
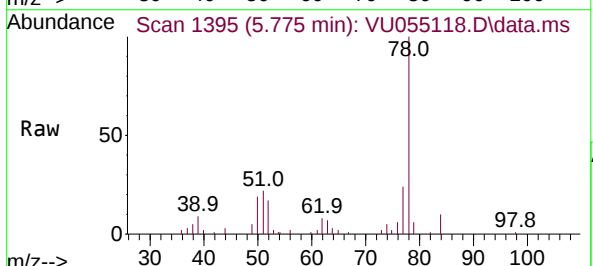
RT: 5.775 min Scan# 1395

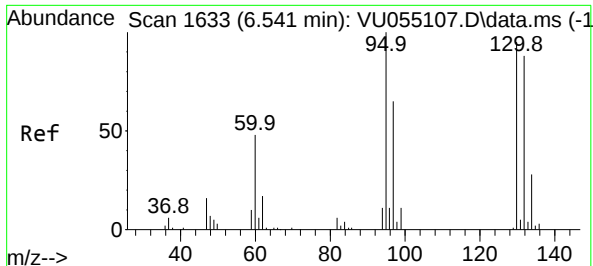
Delta R.T. 0.003 min

Lab File: VU055118.D

Acq: 06 Sep 2023 01:25

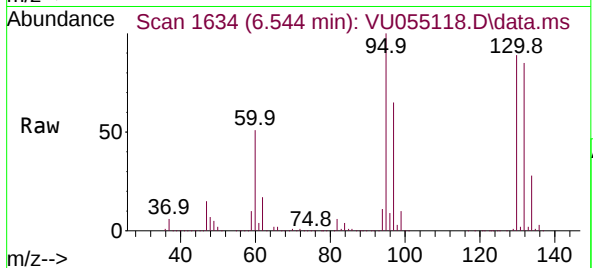
Tgt Ion: 78 Resp: 34344





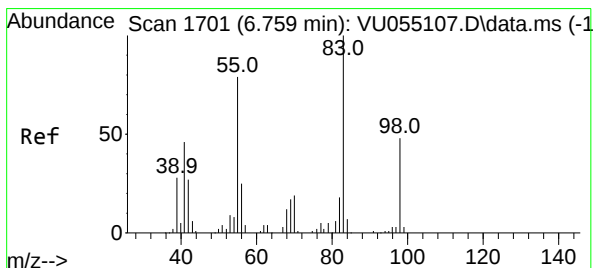
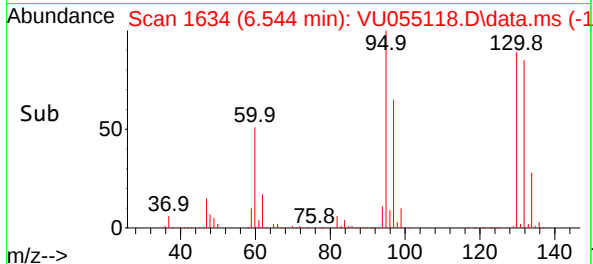
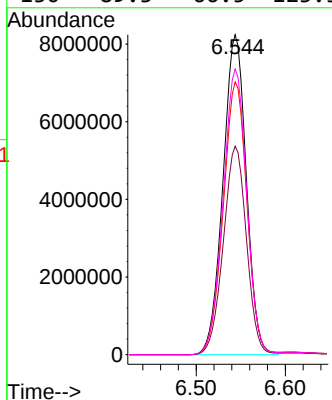
#34
Trichloroethene
Concen: 1343.062 ug/L
RT: 6.544 min Scan# 1633
Delta R.T. 0.003 min
Lab File: VU055118.D
Acq: 06 Sep 2023 01:25

Instrument :
MSVOA_U
ClientSampleId :



Tgt Ion: 95 Resp: 14997146

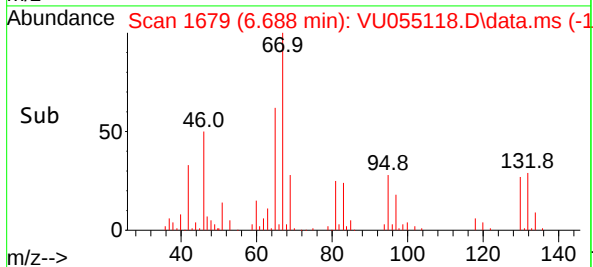
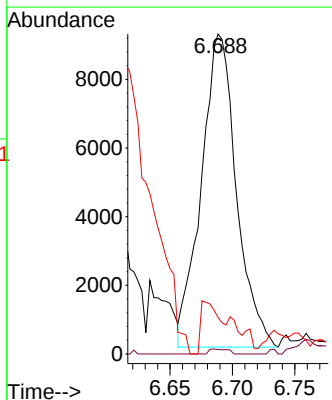
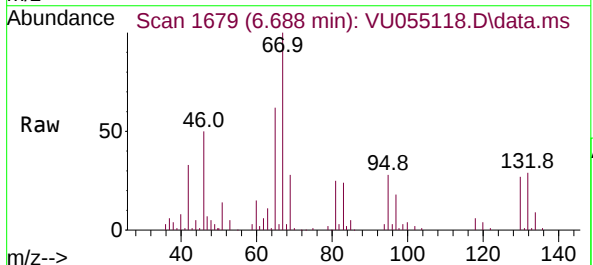
Ion	Ratio	Lower	Upper
95	100		
97	65.1	44.7	83.1
132	85.3	66.6	123.6
130	89.3	66.5	123.5

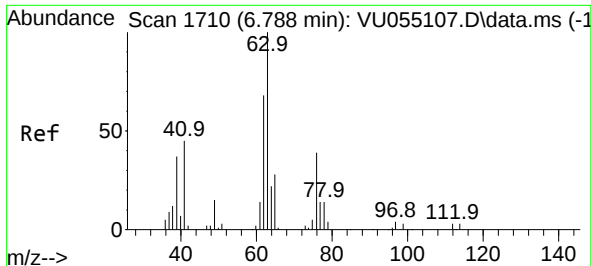


#35
Methylcyclohexane
Concen: 1.141 ug/L
RT: 6.688 min Scan# 1679
Delta R.T. -0.071 min
Lab File: VU055118.D
Acq: 06 Sep 2023 01:25

Tgt Ion: 83 Resp: 17872

Ion	Ratio	Lower	Upper
83	100		
55	0.8	60.4	90.6#
98	0.0	35.3	52.9#

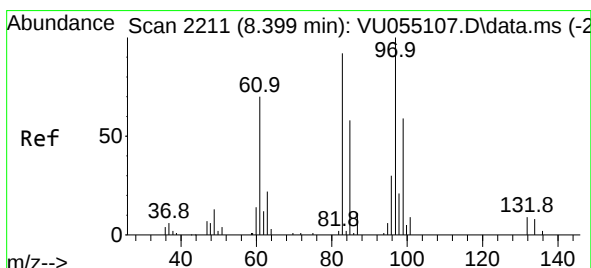
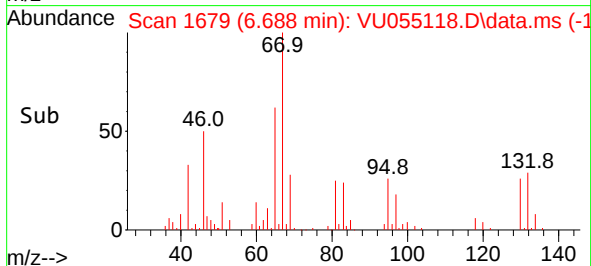
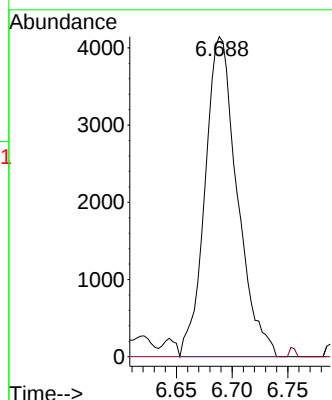
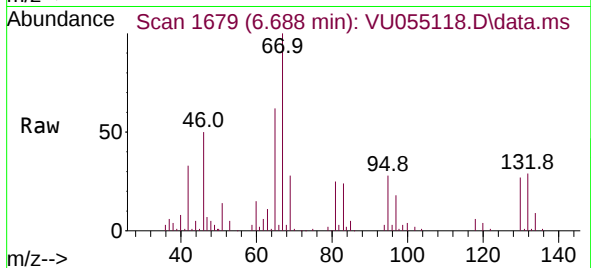




#37
1,2-Dichloropropane
Concen: 0.762 ug/L
RT: 6.688 min Scan# 11
Delta R.T. -0.100 min
Lab File: VU055118.D
Acq: 06 Sep 2023 01:25

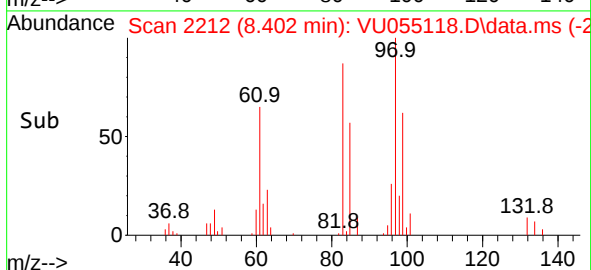
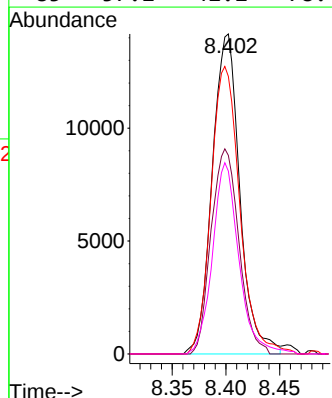
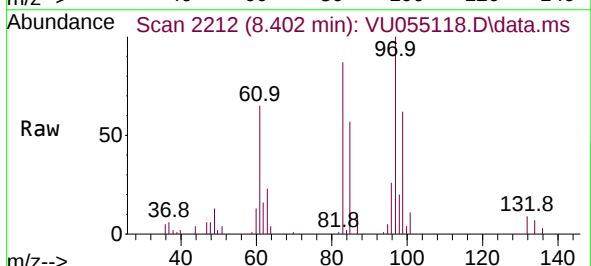
Instrument :
MSVOA_U
ClientSampleId :

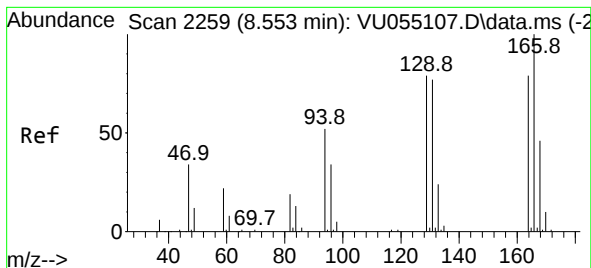
Tgt Ion: 63 Resp: 8335
Ion Ratio Lower Upper
63 100
112 0.5 3.2 4.8#



#45
1,1,2-Trichloroethane
Concen: 3.435 ug/L
RT: 8.402 min Scan# 2212
Delta R.T. 0.003 min
Lab File: VU055118.D
Acq: 06 Sep 2023 01:25

Tgt Ion: 97 Resp: 25307
Ion Ratio Lower Upper
97 100
99 62.0 44.9 83.5
83 86.7 66.9 124.3
85 57.2 42.2 78.4





#47

Tetrachloroethene

Concen: 0.505 ug/L

RT: 8.553 min Scan# 21

Delta R.T. -0.000 min

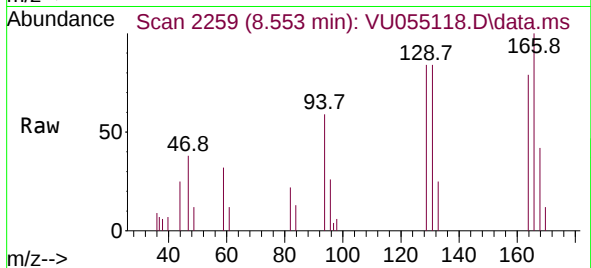
Lab File: VU055118.D

Acq: 06 Sep 2023 01:25

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:164 Resp: 3894

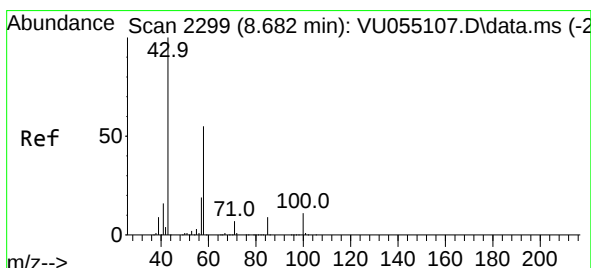
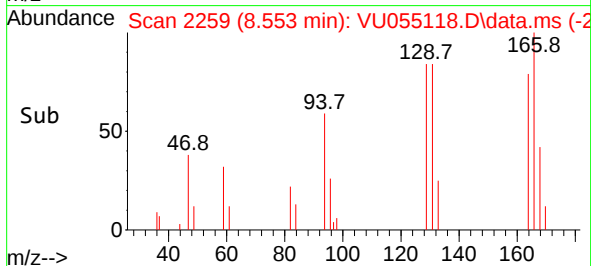
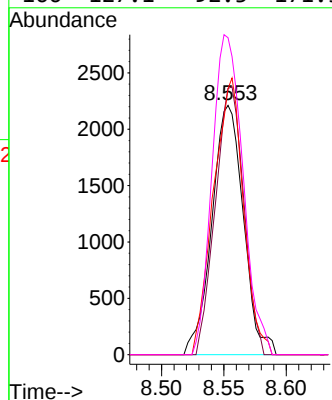
Ion Ratio Lower Upper

164 100

129 106.8 69.2 128.6

131 106.7 68.8 127.8

166 127.1 92.3 171.5



#48

2-Hexanone

Concen: 3.587 ug/L

RT: 8.682 min Scan# 2299

Delta R.T. -0.000 min

Lab File: VU055118.D

Acq: 06 Sep 2023 01:25

Tgt Ion: 43 Resp: 17530

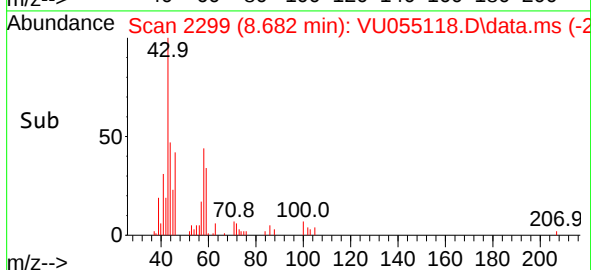
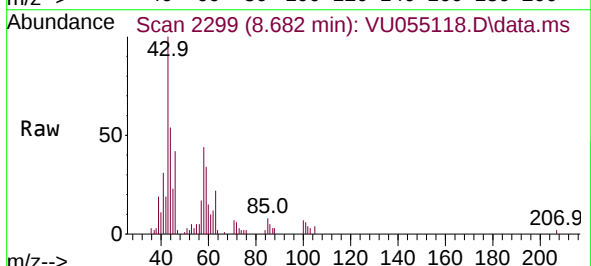
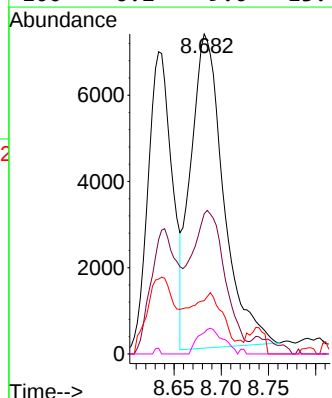
Ion Ratio Lower Upper

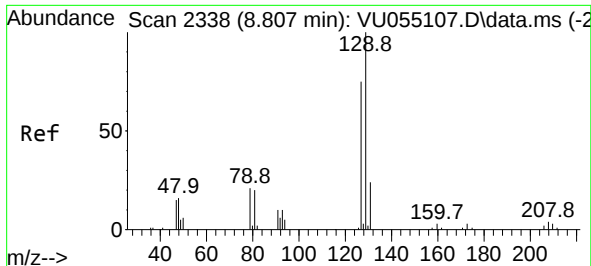
43 100

58 44.8 44.0 66.0

57 6.8 16.2 24.2#

100 6.2 9.0 13.4#





#49

Dibromochloromethane

Concen: 0.469 ug/L

RT: 8.557 min Scan# 21

Delta R.T. -0.251 min

Lab File: VU055118.D

Acq: 06 Sep 2023 01:25

Instrument :

MSVOA_U

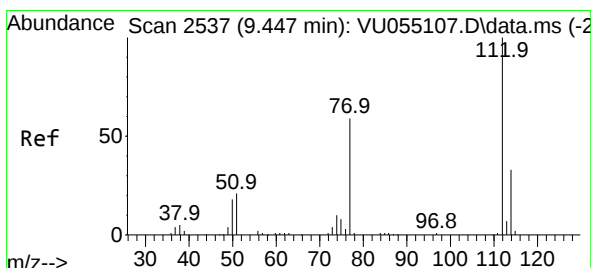
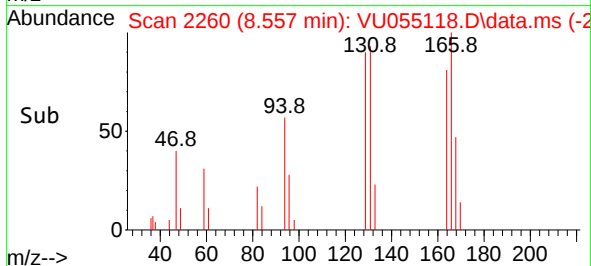
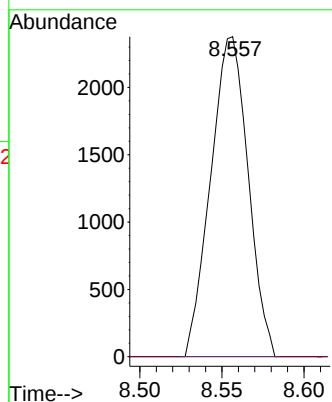
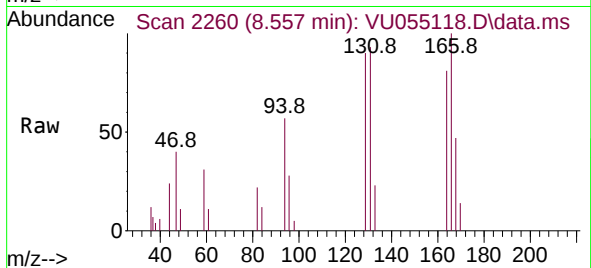
ClientSampleId :

Tgt Ion:129 Resp: 3771

Ion Ratio Lower Upper

129 100

127 0.0 55.9 103.7#



#51

Chlorobenzene

Concen: 16.599 ug/L

RT: 9.444 min Scan# 2536

Delta R.T. -0.003 min

Lab File: VU055118.D

Acq: 06 Sep 2023 01:25

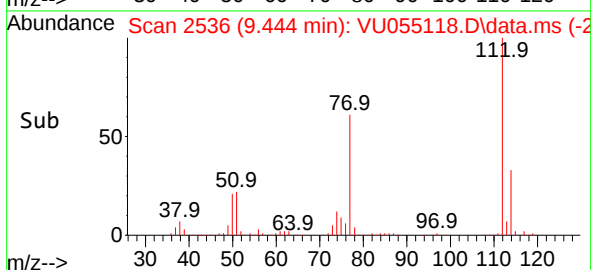
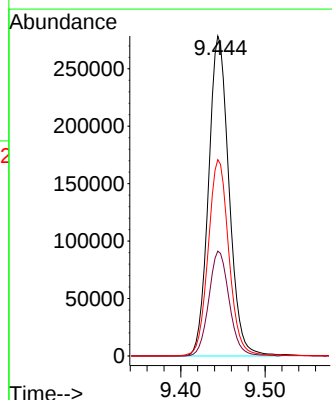
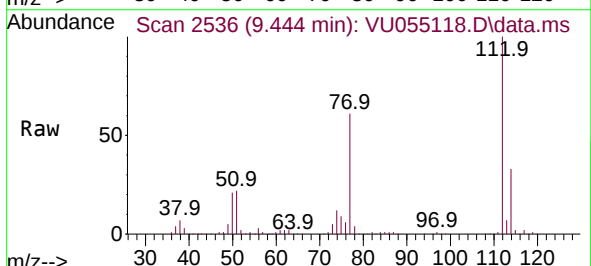
Tgt Ion:112 Resp: 470879

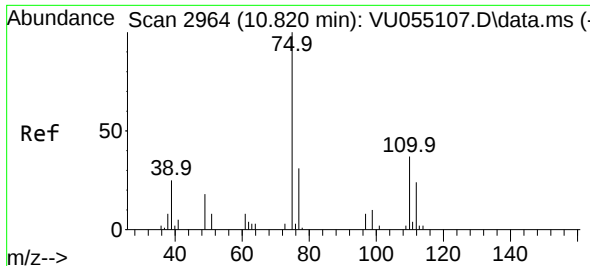
Ion Ratio Lower Upper

112 100

114 32.7 21.7 40.3

77 61.4 48.6 72.8

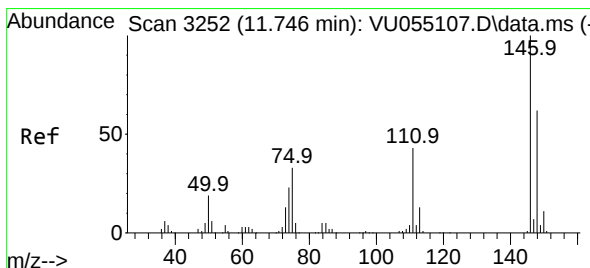
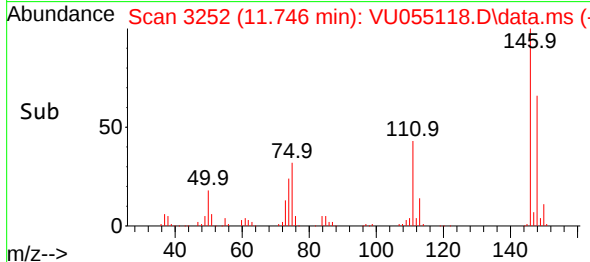
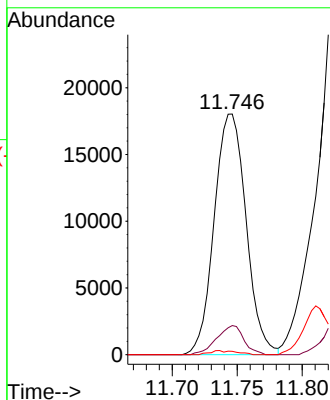
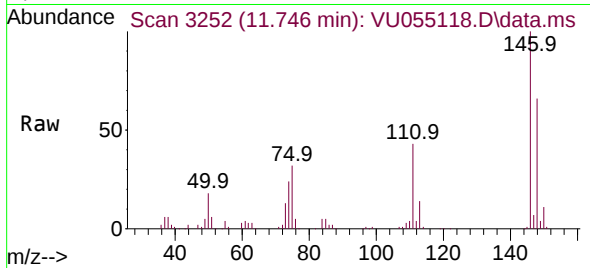




#61
1,2,3-Trichloropropane
Concen: 4.451 ug/L
RT: 11.746 min Scan# 31
Delta R.T. 0.926 min
Lab File: VU055118.D
Acq: 06 Sep 2023 01:25

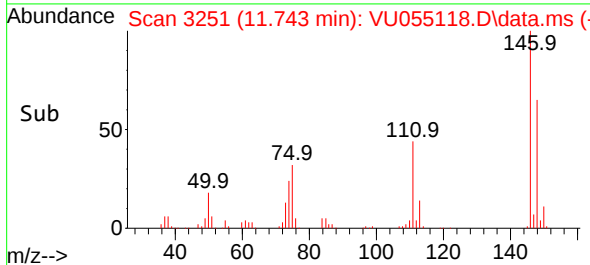
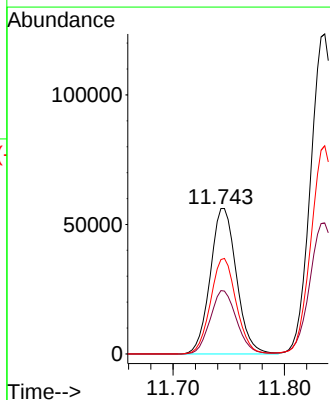
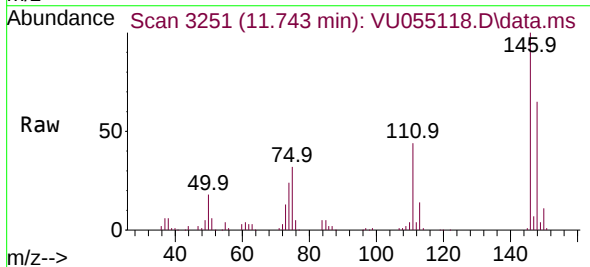
Instrument :
MSVOA_U
ClientSampleId :

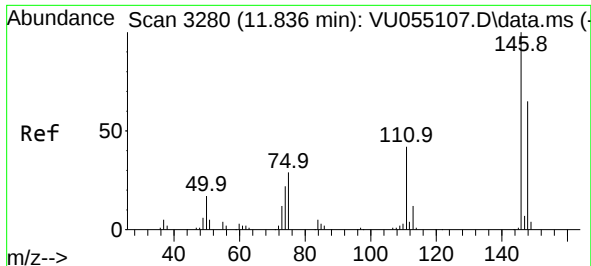
Tgt Ion: 75 Resp: 30757
Ion Ratio Lower Upper
75 100
110 10.3 28.2 42.2#
77 0.0 26.2 39.4#



#64
1,3-Dichlorobenzene
Concen: 3.947 ug/L
RT: 11.743 min Scan# 3251
Delta R.T. -0.003 min
Lab File: VU055118.D
Acq: 06 Sep 2023 01:25

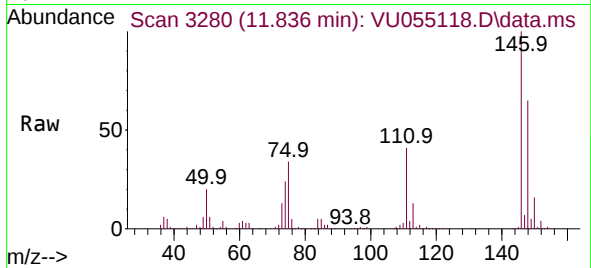
Tgt Ion:146 Resp: 92006
Ion Ratio Lower Upper
146 100
111 43.6 30.0 55.6
148 64.9 45.2 84.0



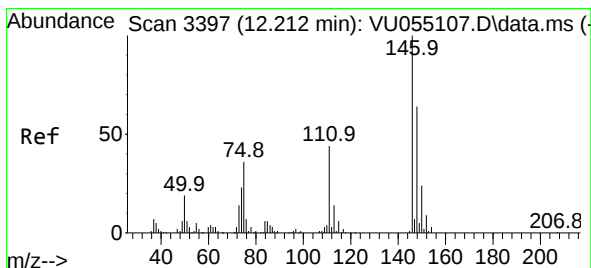
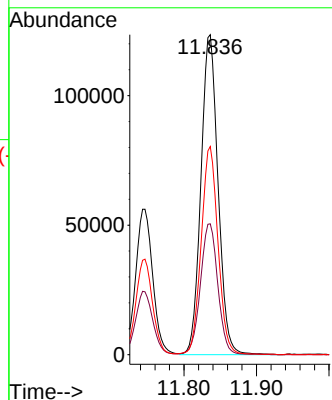
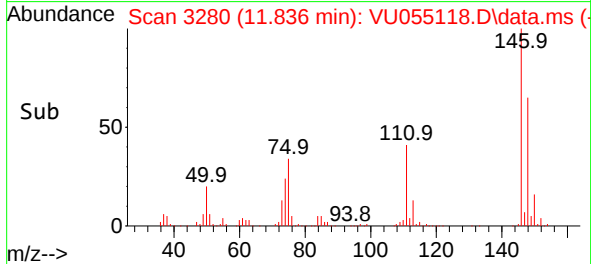


#65
1,4-Dichlorobenzene
Concen: 8.718 ug/L
RT: 11.836 min Scan# 31
Delta R.T. 0.000 min
Lab File: VU055118.D
Acq: 06 Sep 2023 01:25

Instrument :
MSVOA_U
ClientSampleId :

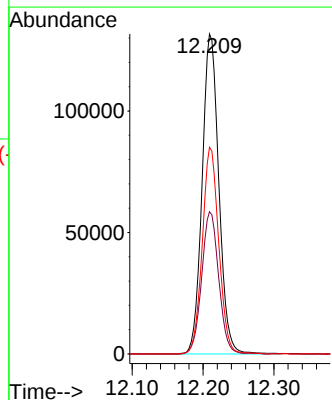
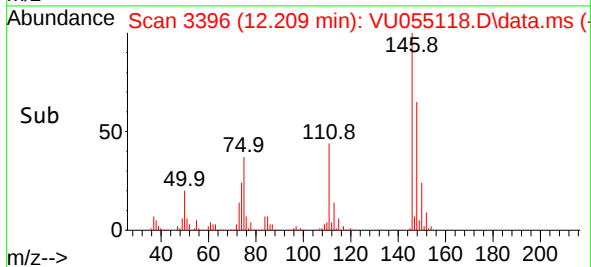
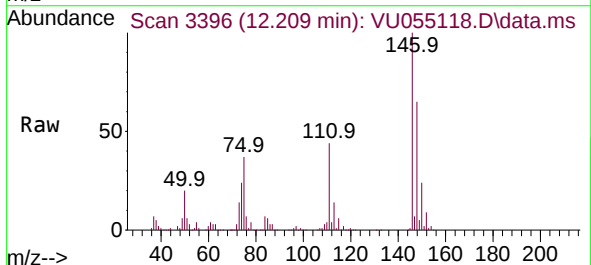


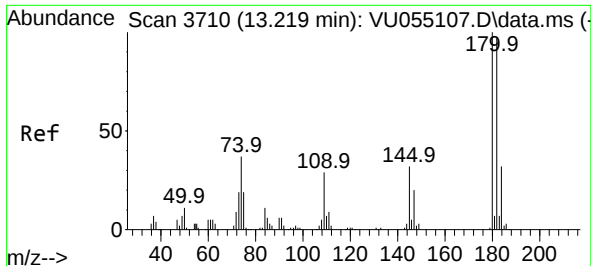
Tgt Ion:146 Resp: 202530
Ion Ratio Lower Upper
146 100
111 40.9 28.1 52.1
148 65.0 43.8 81.3



#67
1,2-Dichlorobenzene
Concen: 9.873 ug/L
RT: 12.209 min Scan# 3396
Delta R.T. -0.003 min
Lab File: VU055118.D
Acq: 06 Sep 2023 01:25

Tgt Ion:146 Resp: 215768
Ion Ratio Lower Upper
146 100
111 44.5 35.6 53.4
148 64.6 51.3 76.9





#69

1,3,5-Trichlorobenzene

Concen: 16.069 ug/L

RT: 13.839 min Scan# 3903

Delta R.T. 0.621 min

Lab File: VU055118.D

Acq: 06 Sep 2023 01:25

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:180 Resp: 283060

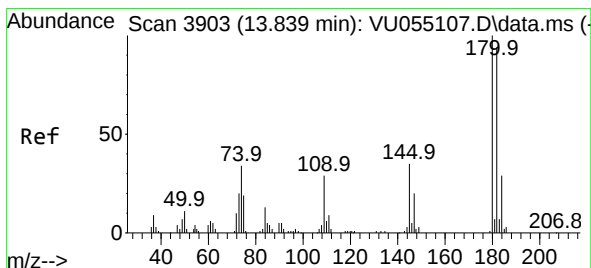
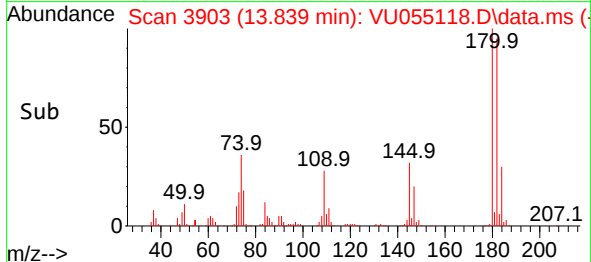
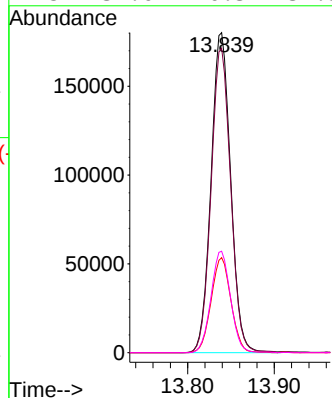
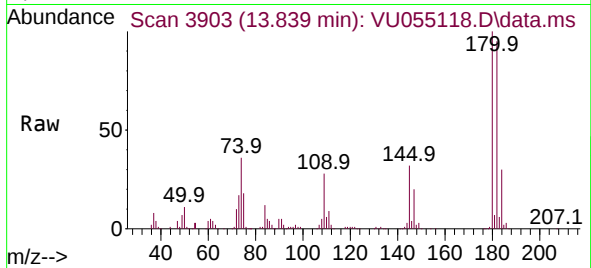
Ion Ratio Lower Upper

180 100

182 94.8 75.8 113.6

184 30.1 24.0 36.0

145 31.6 26.3 39.5



#70

1,2,4-trichlorobenzene

Concen: 17.137 ug/L

RT: 13.839 min Scan# 3903

Delta R.T. 0.000 min

Lab File: VU055118.D

Acq: 06 Sep 2023 01:25

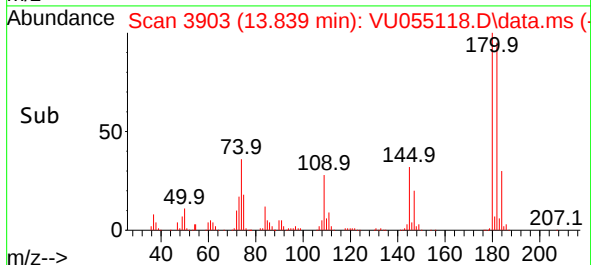
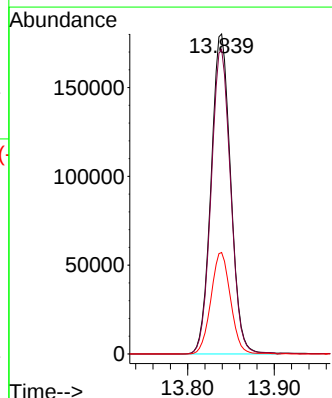
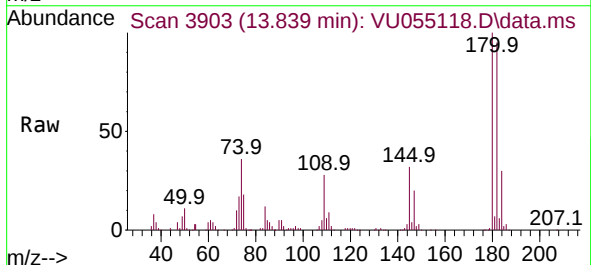
Tgt Ion:180 Resp: 283060

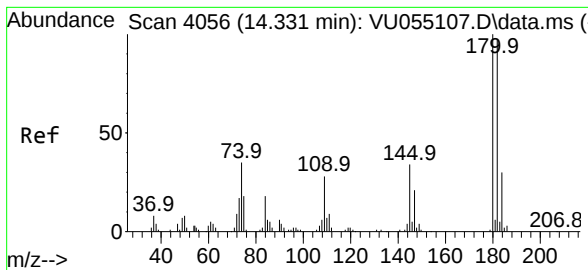
Ion Ratio Lower Upper

180 100

182 94.8 73.6 110.4

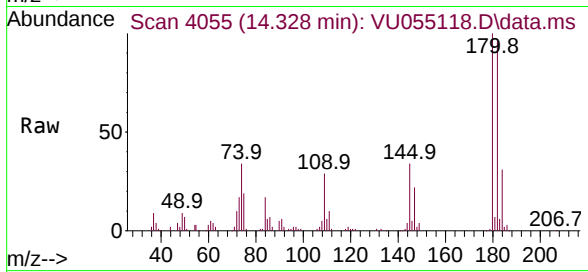
145 31.6 25.8 38.8





#72
 1,2,3-Trichlorobenzene
 Concen: 6.077 ug/L
 RT: 14.328 min Scan# 4055
 Delta R.T. -0.003 min
 Lab File: VU055118.D
 Acq: 06 Sep 2023 01:25

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion:	180	Resp:	87119
Ion Ratio	Lower	Upper	
180	100		
182	95.8	75.6	113.4
145	33.3	27.0	40.6

