

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\U090123\
 Data File : U055069.D
 Acq On : 02 Sep 2023 03:09
 Operator : MD/SY
 Sample : 04250-06
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Sep 02 04:12:11 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	193768	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.415	117	193405	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.811	152	99130	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.596	65	41745	4.597	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	92.000%
7) Chloroethane-d5	1.911	69	48965	4.658	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	93.200%
11) 1,1-Dichloroethene-d2	2.563	65	24832	4.799	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	96.000%
20) 2-Butanone-d5	4.628	46	142870	54.212	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	108.420%
24) Chloroform-d	5.059	84	118153	4.903	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.000%
26) 1,2-Dichloroethane-d4	5.698	65	61357	5.089	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.800%
32) Benzene-d6	5.724	84	239765	5.022	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	100.400%
36) 1,2-Dichloropropane-d6	6.689	67	78460	5.167	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	103.400%
41) Toluene-d8	7.894	98	214408	4.875	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.600%
43) trans-1,3-Dichloroprop...	8.181	79	18698	4.472	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	89.400%
46) 2-Hexanone-d5	8.634	63	78855	46.450	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	92.900%
56) 1,1,2,2-Tetrachloroeth...	10.753	84	52439	4.911	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	98.200%
66) 1,2-Dichlorobenzene-d4	12.190	152	72884	5.037	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	100.800%
Target Compounds						
					Qvalue	
3) Chloromethane	1.515	50	3625	0.316	ug/L	96
5) Vinyl chloride	1.602	62	10880	0.900	ug/L	96
9) Trichlorofluoromethane	2.136	101	9279	0.528	ug/L	96
12) 1,1-Dichloroethene	2.576	96	10742	1.199	ug/L #	1
17) Methyl tert-butyl Ether	3.361	73	15672	0.667	ug/L	99
18) trans-1,2-Dichloroethene	3.351	96	7053	0.776	ug/L	86
19) 1,1-Dichloroethane	3.866	63	11587	0.590	ug/L	90
22) cis-1,2-Dichloroethene	4.660	96	806483	72.489	ug/L	96
25) Chloroform	5.091	83	9382	0.459	ug/L	97
33) Benzene	5.776	78	5521	0.134	ug/L	100
34) Trichloroethene	6.538	95	1059575	92.622	ug/L	98
35) Methylcyclohexane	6.685	83	17927	1.117	ug/L #	13
37) 1,2-Dichloropropane	6.689	63	8652	0.772	ug/L #	88
45) 1,1,2-Trichloroethane	8.399	97	853	0.113	ug/L #	78
47) Tetrachloroethene	8.550	164	28308	3.580	ug/L	97
48) 2-Hexanone	8.682	43	19706	3.936	ug/L #	76
49) Dibromochloromethane	8.550	129	28537	3.463	ug/L #	9
51) Chlorobenzene	9.444	112	7384	0.254	ug/L	95
61) 1,2,3-Trichloropropane	11.746	75	1658	0.252	ug/L #	43

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Quant Title : TRACE VOA SFAM1.0
QLast Update : Sat Sep 02 00:23:04 2023
Response via : Initial Calibration

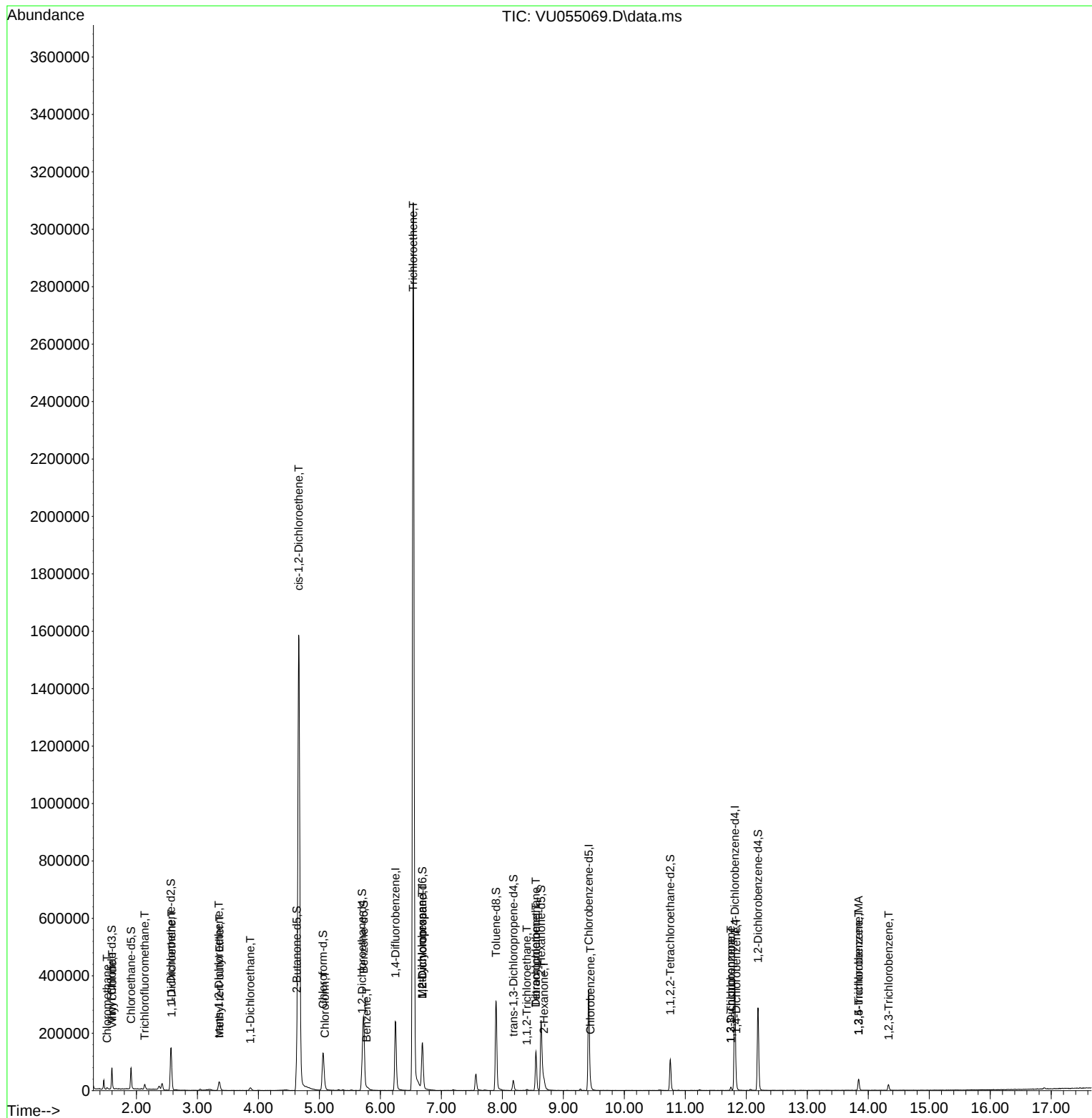
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
64) 1,3-Dichlorobenzene	11.746	146	3969	0.179	ug/L	90
65) 1,4-Dichlorobenzene	11.836	146	4721	0.213	ug/L	87
69) 1,3,5-Trichlorobenzene	13.843	180	11610	0.692	ug/L	96
70) 1,2,4-trichlorobenzene	13.843	180	11840	0.753	ug/L	96
72) 1,2,3-Trichlorobenzene	14.331	180	6080	0.445	ug/L	96

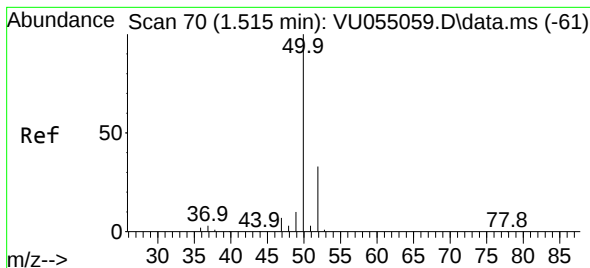
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.316 ug/L

RT: 1.515 min Scan# 70

Delta R.T. 0.000 min

Lab File: VU055069.D

Acq: 02 Sep 2023 03:09

Instrument :

MSVOA_U

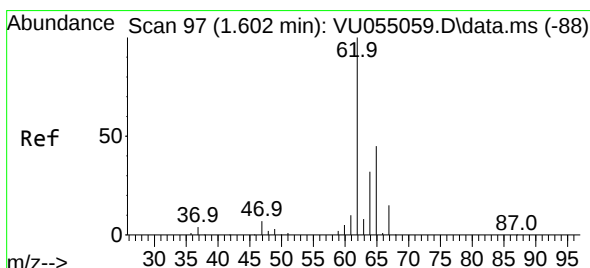
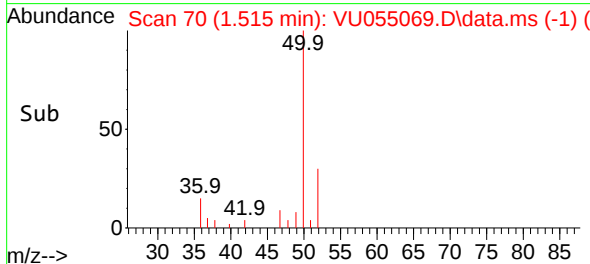
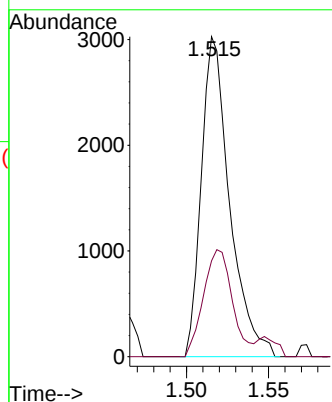
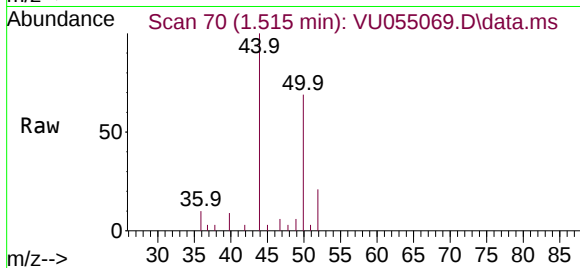
ClientSampleId :

Tgt Ion: 50 Resp: 3625

Ion Ratio Lower Upper

50 100

52 30.0 22.5 41.7



#5

Vinyl chloride

Concen: 0.900 ug/L

RT: 1.602 min Scan# 97

Delta R.T. 0.000 min

Lab File: VU055069.D

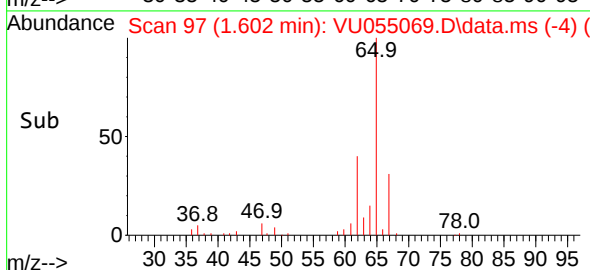
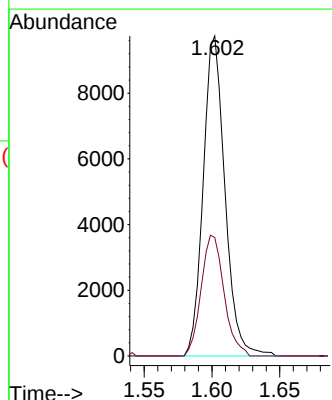
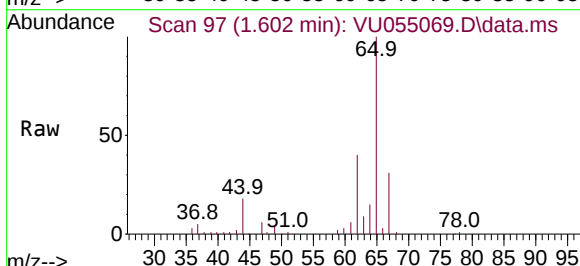
Acq: 02 Sep 2023 03:09

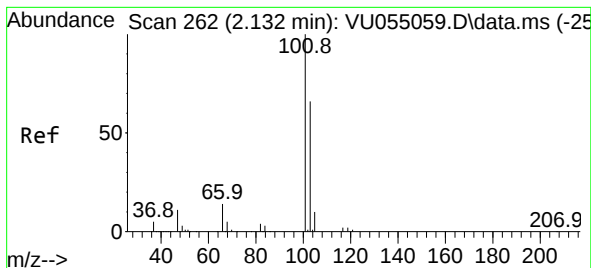
Tgt Ion: 62 Resp: 10880

Ion Ratio Lower Upper

62 100

64 37.0 24.2 45.0





#9

Trichlorofluoromethane

Concen: 0.528 ug/L

RT: 2.136 min Scan# 2

Delta R.T. 0.003 min

Lab File: VU055069.D

Acq: 02 Sep 2023 03:09

Instrument :

MSVOA_U

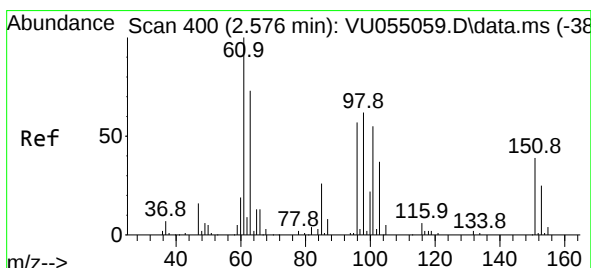
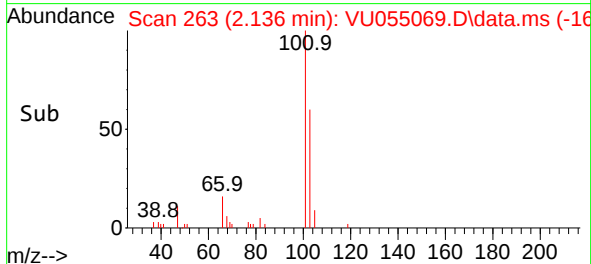
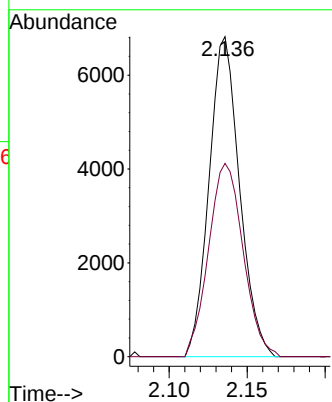
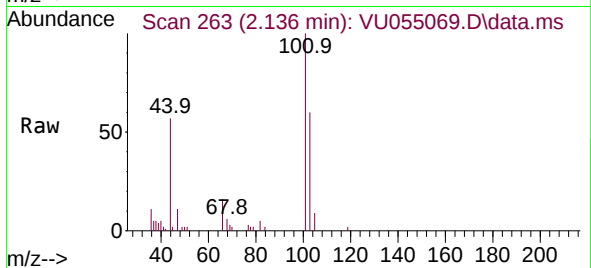
ClientSampleId :

Tgt Ion:101 Resp: 9279

Ion Ratio Lower Upper

101 100

103 68.3 51.9 77.9



#12

1,1-Dichloroethene

Concen: 1.199 ug/L

RT: 2.576 min Scan# 400

Delta R.T. 0.000 min

Lab File: VU055069.D

Acq: 02 Sep 2023 03:09

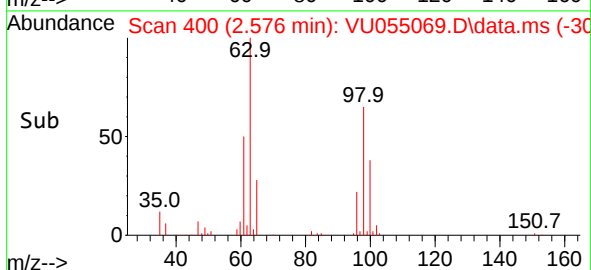
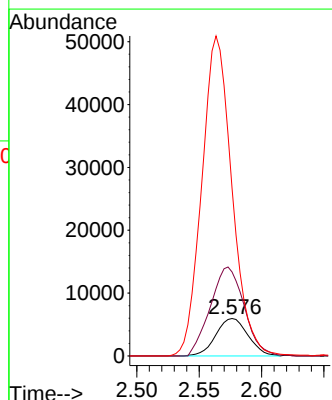
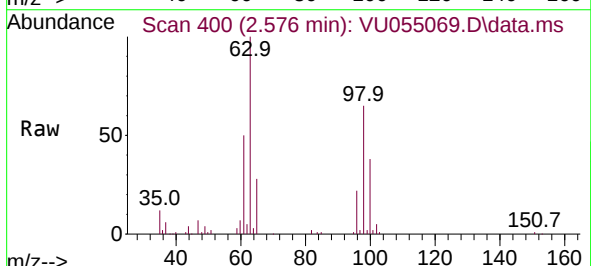
Tgt Ion: 96 Resp: 10742

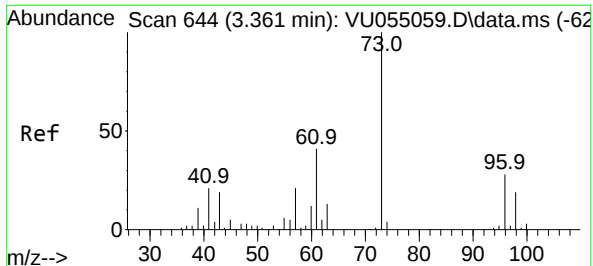
Ion Ratio Lower Upper

96 100

61 223.7 120.8 224.4

63 447.3 94.5 175.5#





#17

Methyl tert-butyl Ether

Concen: 0.667 ug/L

RT: 3.361 min Scan# 644

Delta R.T. 0.000 min

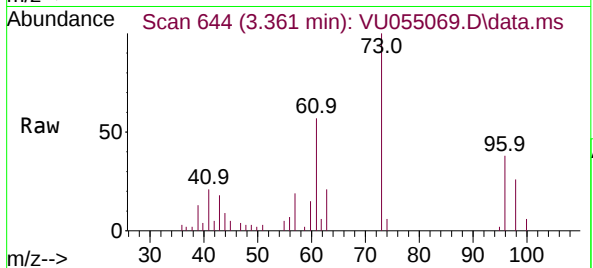
Lab File: VU055069.D

Acq: 02 Sep 2023 03:09

Instrument :

MSVOA_U

ClientSampleId :



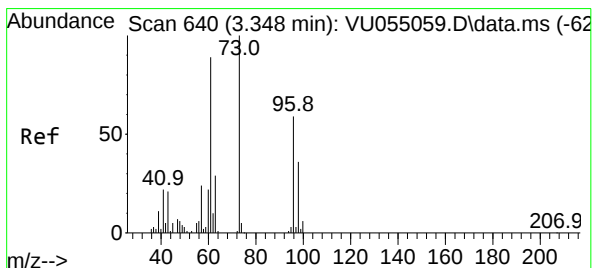
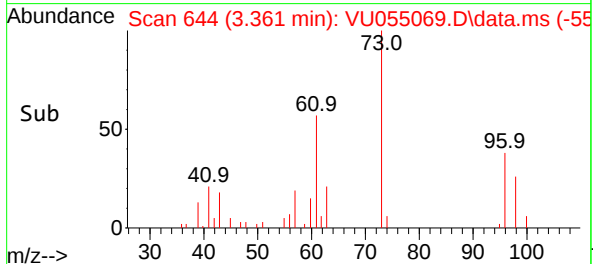
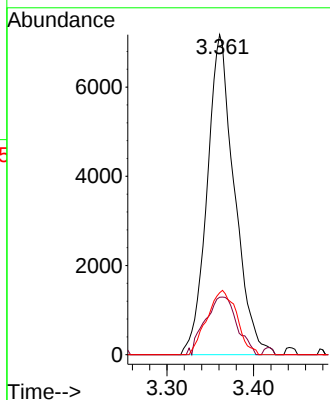
Tgt Ion: 73 Resp: 15672

Ion Ratio Lower Upper

73 100

43 21.1 16.2 24.2

57 21.9 17.4 26.2



#18

trans-1,2-Dichloroethene

Concen: 0.776 ug/L

RT: 3.351 min Scan# 641

Delta R.T. 0.003 min

Lab File: VU055069.D

Acq: 02 Sep 2023 03:09

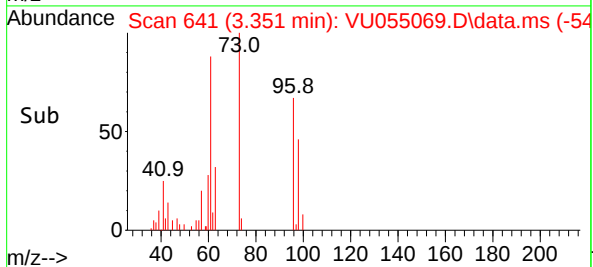
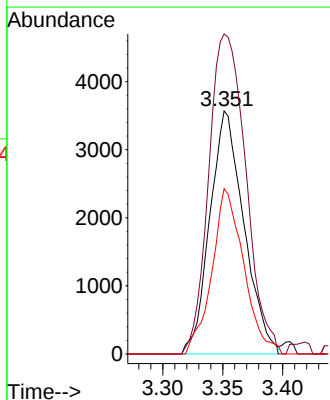
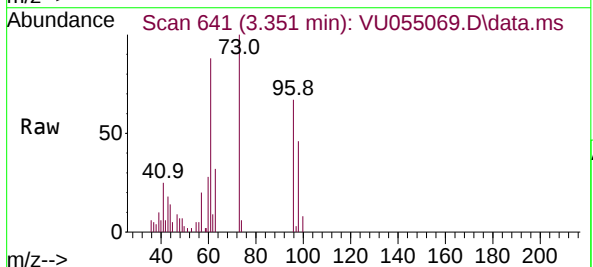
Tgt Ion: 96 Resp: 7053

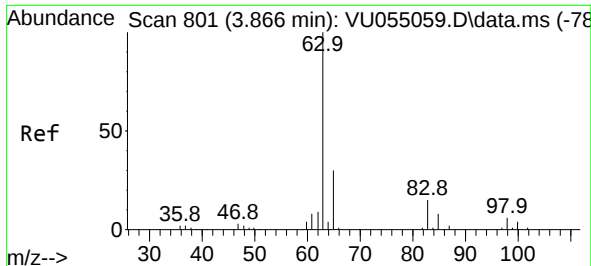
Ion Ratio Lower Upper

96 100

61 131.7 108.1 200.9

98 68.0 45.4 84.4





#19

1,1-Dichloroethane

Concen: 0.590 ug/L

RT: 3.866 min Scan# 801

Delta R.T. 0.000 min

Lab File: VU055069.D

Acq: 02 Sep 2023 03:09

Instrument :

MSVOA_U

ClientSampleId :

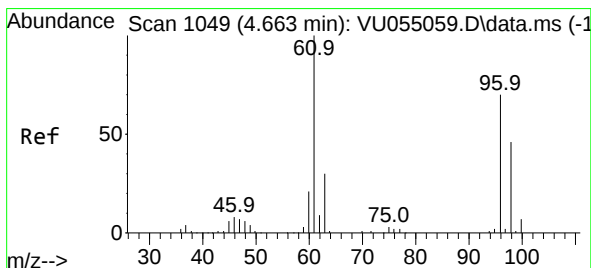
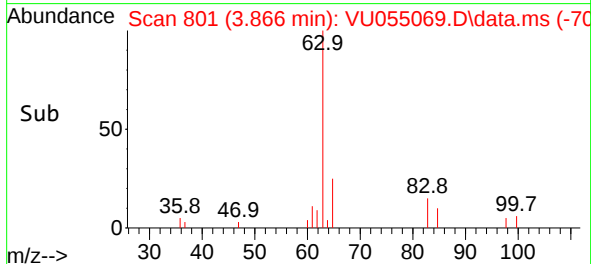
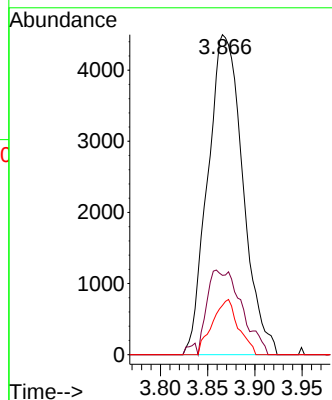
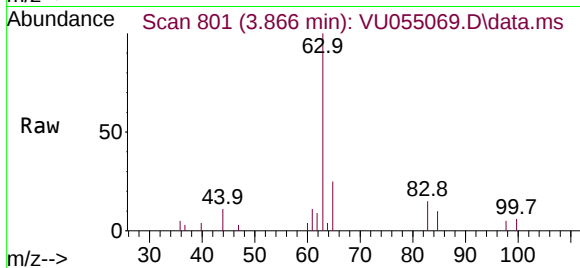
Tgt Ion: 63 Resp: 11587

Ion Ratio Lower Upper

63 100

65 23.9 22.2 41.2

83 14.9 10.6 19.8



#22

cis-1,2-Dichloroethene

Concen: 72.489 ug/L

RT: 4.660 min Scan# 1048

Delta R.T. -0.003 min

Lab File: VU055069.D

Acq: 02 Sep 2023 03:09

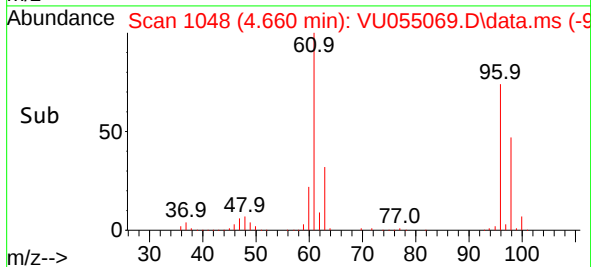
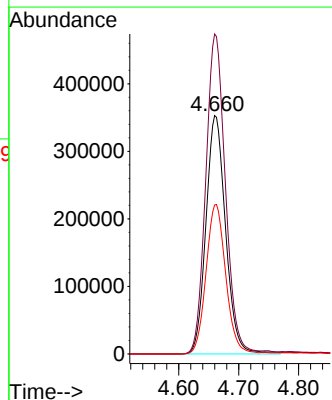
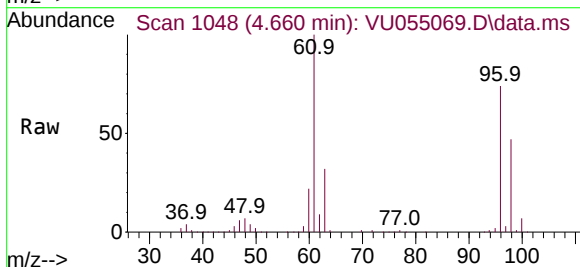
Tgt Ion: 96 Resp: 806483

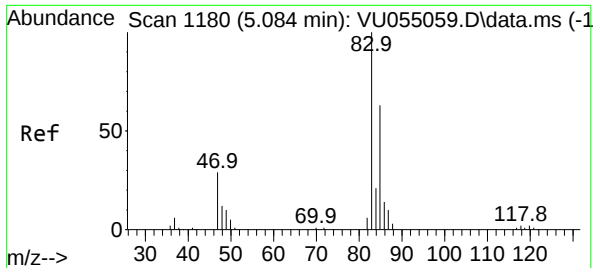
Ion Ratio Lower Upper

96 100

61 134.2 97.2 180.4

98 62.5 46.1 85.7

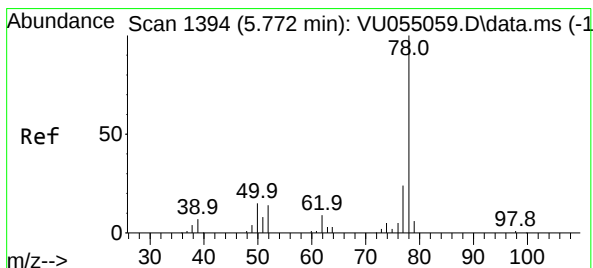
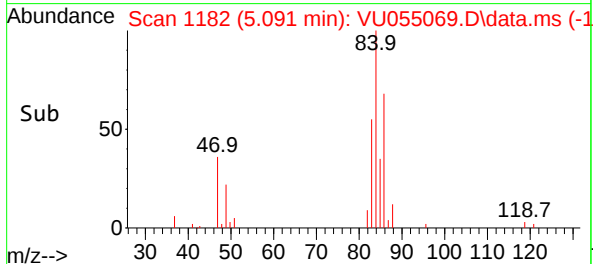
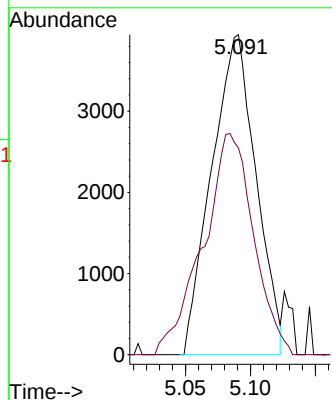
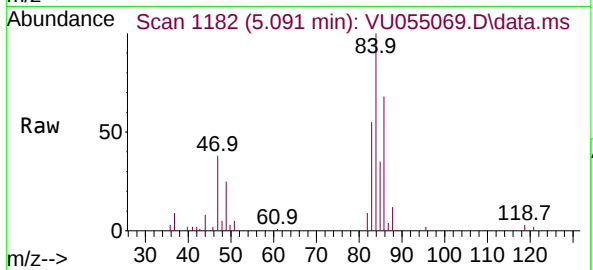




#25
Chloroform
Concen: 0.459 ug/L
RT: 5.091 min Scan# 1182
Delta R.T. 0.007 min
Lab File: VU055069.D
Acq: 02 Sep 2023 03:09

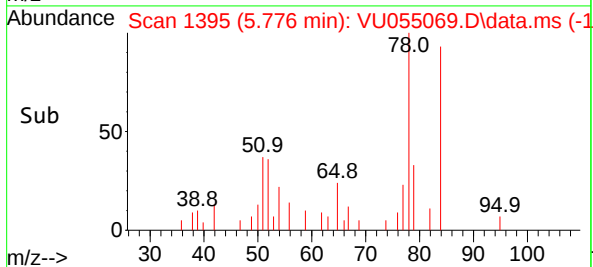
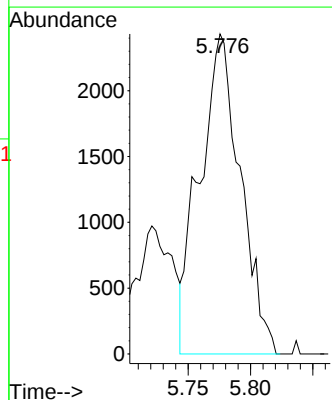
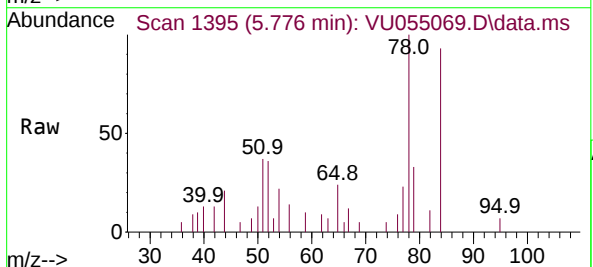
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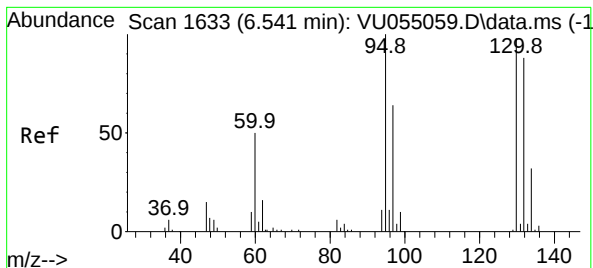
Tgt Ion: 83 Resp: 9382
Ion Ratio Lower Upper
83 100
85 64.6 47.2 87.6



#33
Benzene
Concen: 0.134 ug/L
RT: 5.776 min Scan# 1395
Delta R.T. 0.003 min
Lab File: VU055069.D
Acq: 02 Sep 2023 03:09

Tgt Ion: 78 Resp: 5521





#34

Trichloroethene

Concen: 92.622 ug/L

RT: 6.538 min Scan# 1

Delta R.T. -0.003 min

Lab File: VU055069.D

Acq: 02 Sep 2023 03:09

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 95 Resp: 1059575

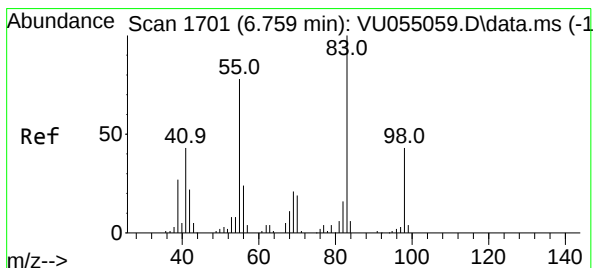
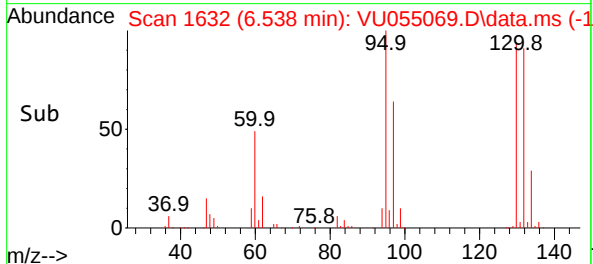
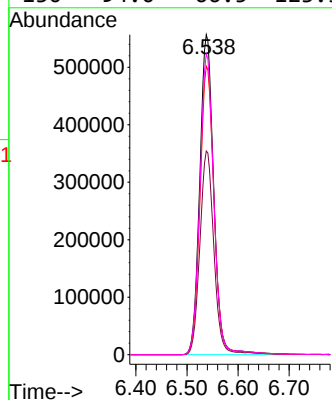
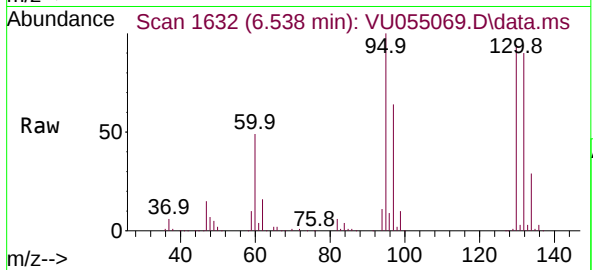
Ion Ratio Lower Upper

95 100

97 63.7 44.7 83.1

132 90.1 66.6 123.6

130 94.0 66.5 123.5



#35

Methylcyclohexane

Concen: 1.117 ug/L

RT: 6.685 min Scan# 1678

Delta R.T. -0.074 min

Lab File: VU055069.D

Acq: 02 Sep 2023 03:09

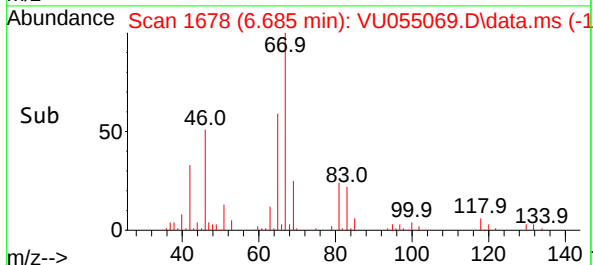
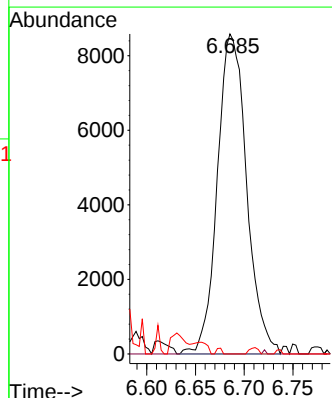
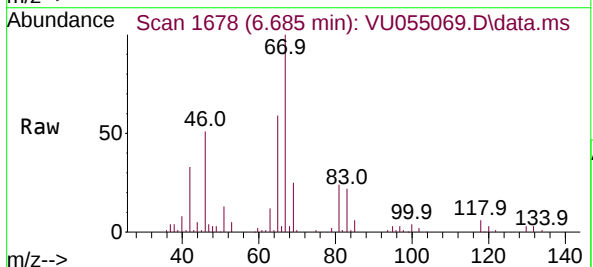
Tgt Ion: 83 Resp: 17927

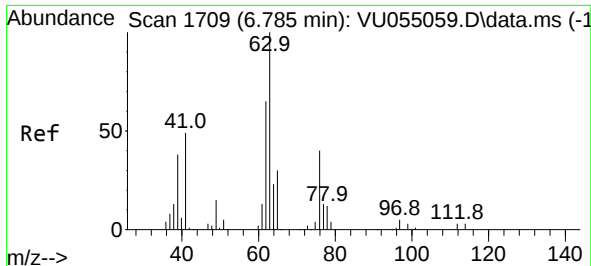
Ion Ratio Lower Upper

83 100

55 0.1 60.4 90.6#

98 99.3 35.3 52.9#

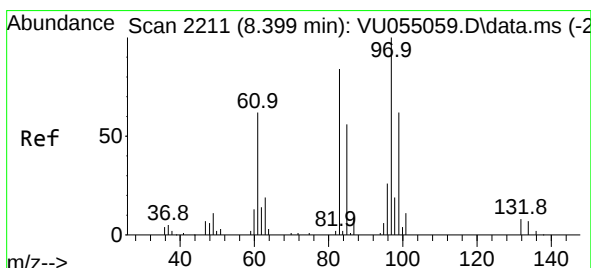
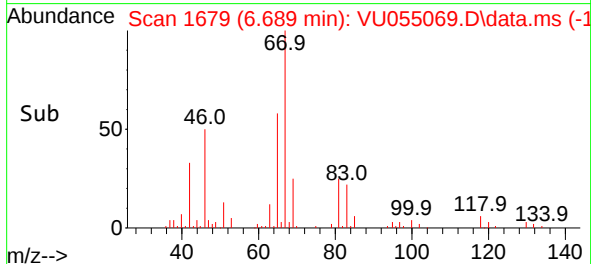
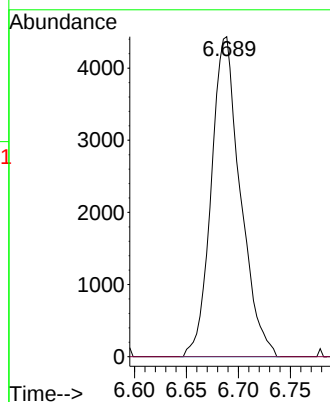
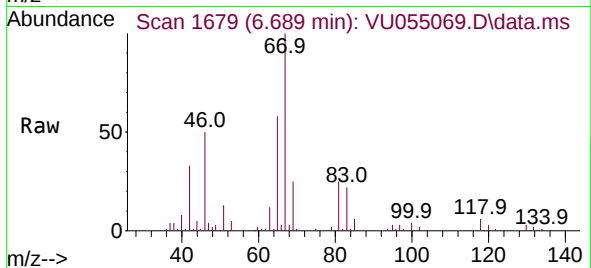




#37
1,2-Dichloropropane
Concen: 0.772 ug/L
RT: 6.689 min Scan# 1
Delta R.T. -0.096 min
Lab File: VU055069.D
Acq: 02 Sep 2023 03:09

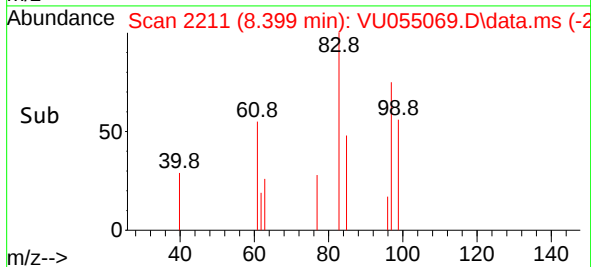
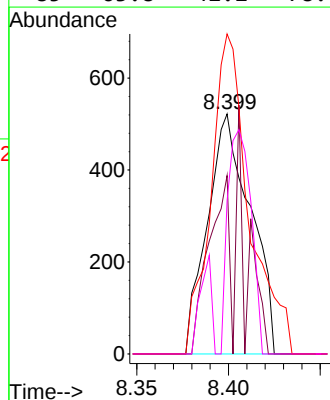
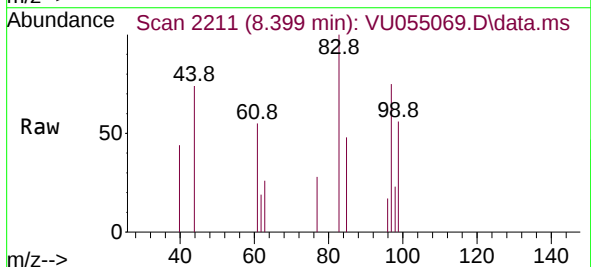
Instrument :
MSVOA_U
ClientSampleId :

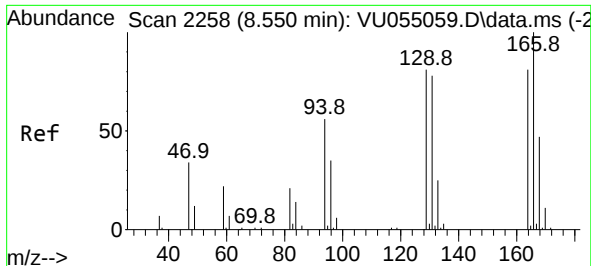
Tgt Ion: 63 Resp: 8652
Ion Ratio Lower Upper
63 100
112 0.0 3.2 4.8#



#45
1,1,2-Trichloroethane
Concen: 0.113 ug/L
RT: 8.399 min Scan# 2211
Delta R.T. 0.000 min
Lab File: VU055069.D
Acq: 02 Sep 2023 03:09

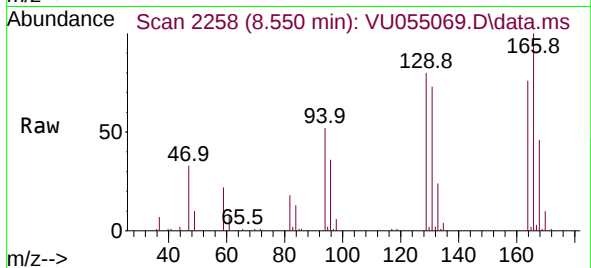
Tgt Ion: 97 Resp: 853
Ion Ratio Lower Upper
97 100
99 74.3 44.9 83.5
83 133.3 66.9 124.3#
85 63.8 42.2 78.4



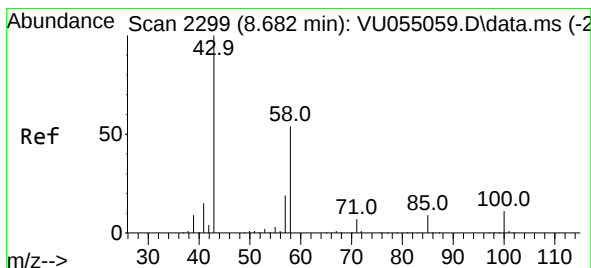
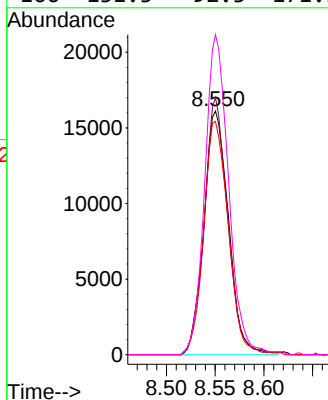
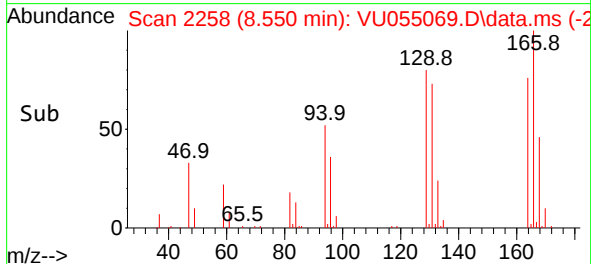


#47
Tetrachloroethene
Concen: 3.580 ug/L
RT: 8.550 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU055069.D
Acq: 02 Sep 2023 03:09

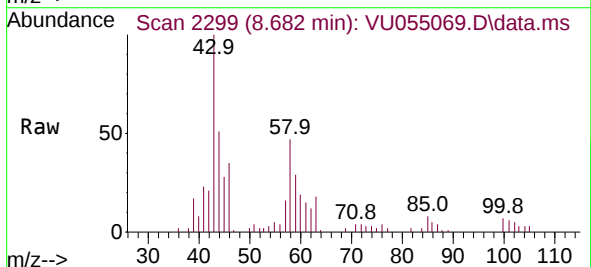
Instrument :
MSVOA_U
ClientSampleId :



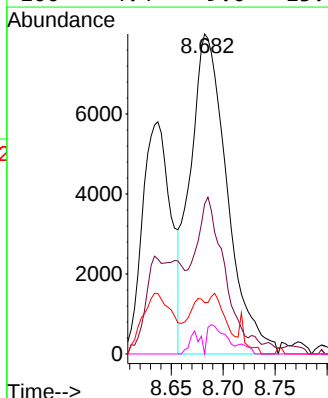
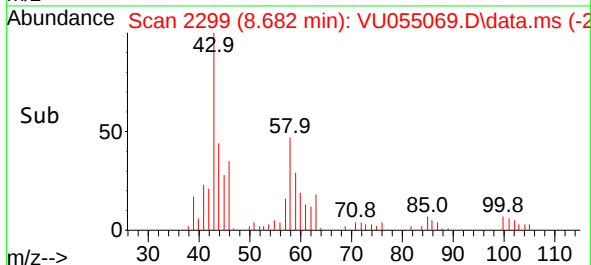
Tgt Ion:164 Resp: 28308
Ion Ratio Lower Upper
164 100
129 105.5 69.2 128.6
131 95.7 68.8 127.8
166 131.3 92.3 171.5

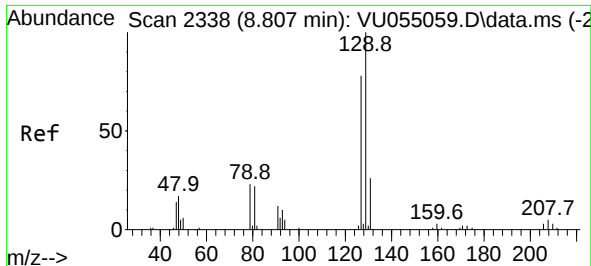


#48
2-Hexanone
Concen: 3.936 ug/L
RT: 8.682 min Scan# 2299
Delta R.T. 0.000 min
Lab File: VU055069.D
Acq: 02 Sep 2023 03:09



Tgt Ion: 43 Resp: 19706
Ion Ratio Lower Upper
43 100
58 36.7 44.0 66.0#
57 8.2 16.2 24.2#
100 4.4 9.0 13.4#





#49

Dibromochloromethane

Concen: 3.463 ug/L

RT: 8.550 min Scan# 21

Delta R.T. -0.257 min

Lab File: VU055069.D

Acq: 02 Sep 2023 03:09

Instrument :

MSVOA_U

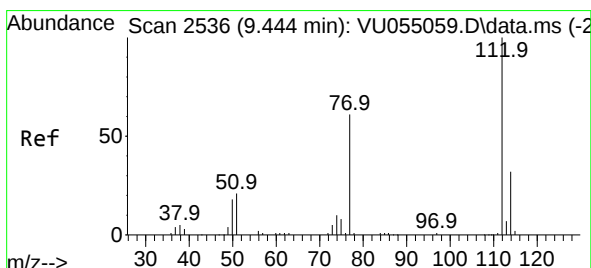
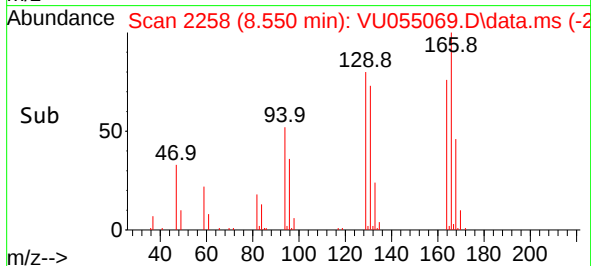
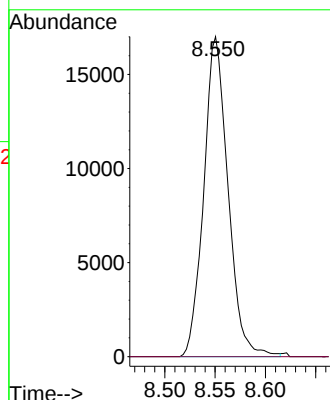
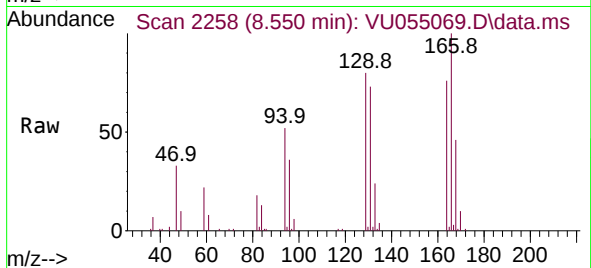
ClientSampleId :

Tgt Ion:129 Resp: 28537

Ion Ratio Lower Upper

129 100

127 0.0 55.9 103.7#



#51

Chlorobenzene

Concen: 0.254 ug/L

RT: 9.444 min Scan# 2536

Delta R.T. 0.000 min

Lab File: VU055069.D

Acq: 02 Sep 2023 03:09

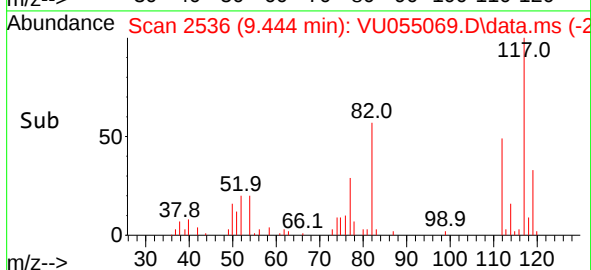
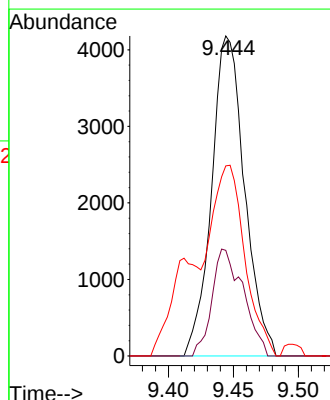
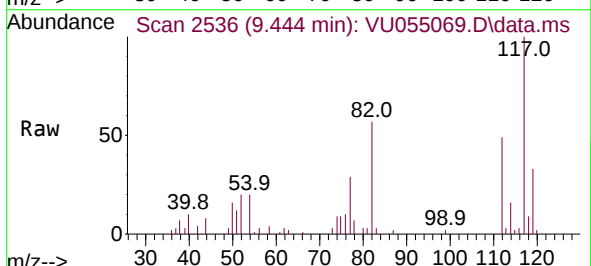
Tgt Ion:112 Resp: 7384

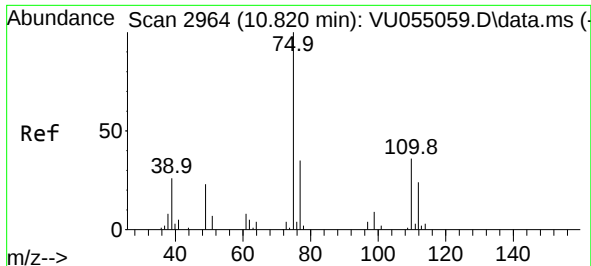
Ion Ratio Lower Upper

112 100

114 30.8 21.7 40.3

77 55.5 48.6 72.8

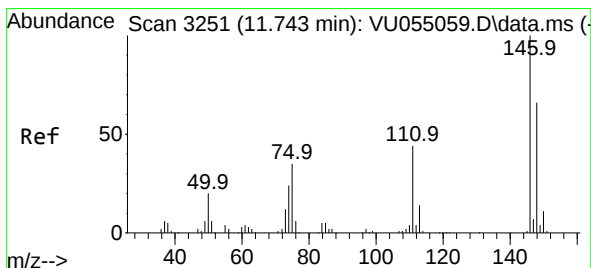
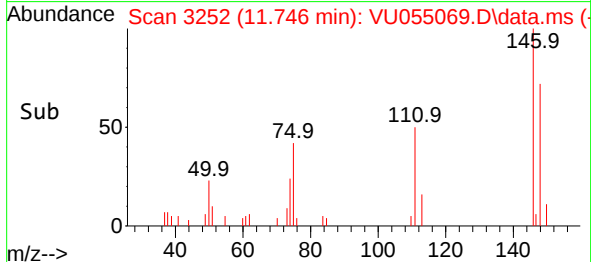
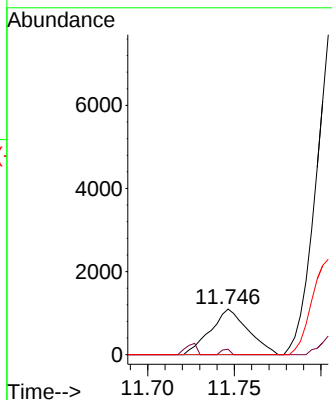
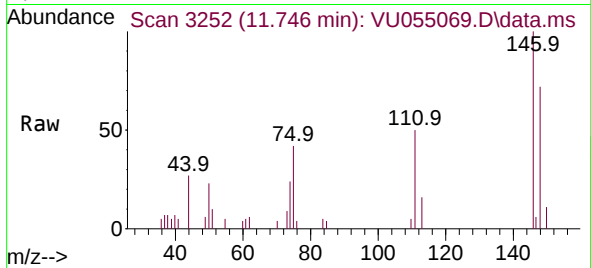




#61
1,2,3-Trichloropropane
Concen: 0.252 ug/L
RT: 11.746 min Scan# 31
Delta R.T. 0.926 min
Lab File: VU055069.D
Acq: 02 Sep 2023 03:09

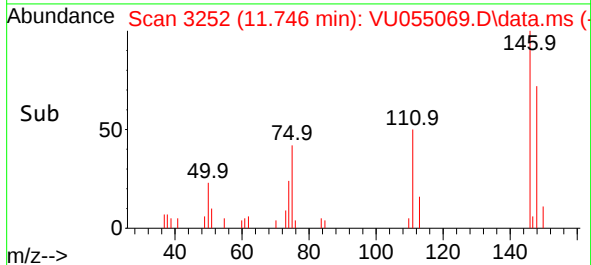
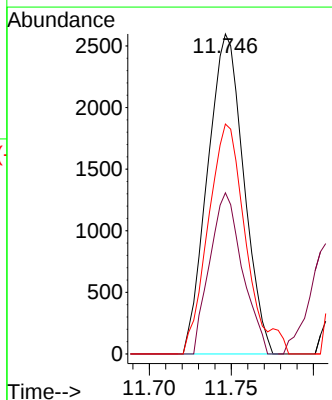
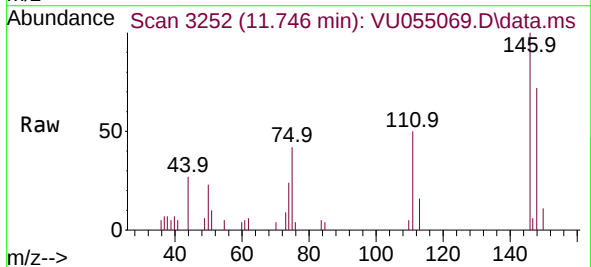
Instrument :
MSVOA_U
ClientSampleId :

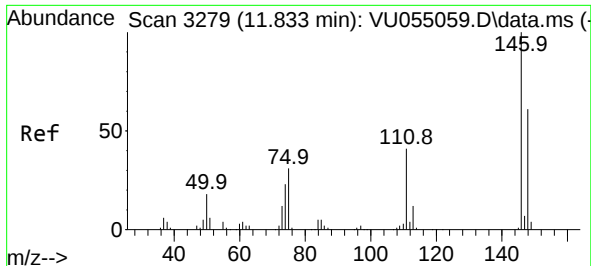
Tgt Ion: 75 Resp: 1658
Ion Ratio Lower Upper
75 100
110 2.8 28.2 42.2#
77 0.0 26.2 39.4#



#64
1,3-Dichlorobenzene
Concen: 0.179 ug/L
RT: 11.746 min Scan# 3252
Delta R.T. 0.003 min
Lab File: VU055069.D
Acq: 02 Sep 2023 03:09

Tgt Ion:146 Resp: 3969
Ion Ratio Lower Upper
146 100
111 50.4 30.0 55.6
148 71.9 45.2 84.0





#65

1,4-Dichlorobenzene

Concen: 0.213 ug/L

RT: 11.836 min Scan# 31

Delta R.T. 0.003 min

Lab File: VU055069.D

Acq: 02 Sep 2023 03:09

Instrument :

MSVOA_U

ClientSampleId :

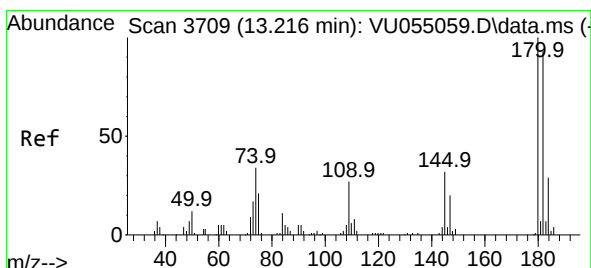
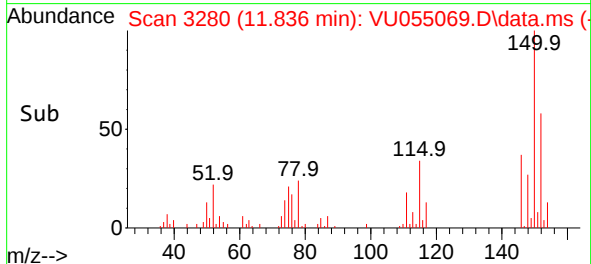
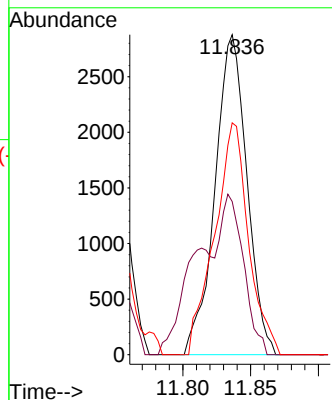
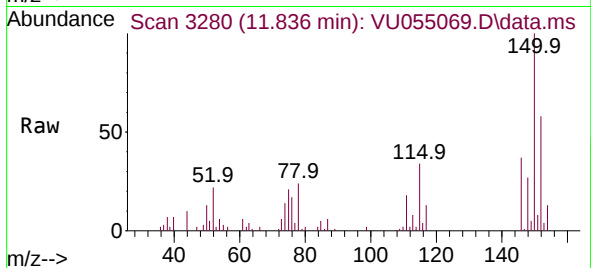
Tgt Ion:146 Resp: 4721

Ion Ratio Lower Upper

146 100

111 47.8 28.1 52.1

148 72.4 43.8 81.3



#69

1,3,5-Trichlorobenzene

Concen: 0.692 ug/L

RT: 13.843 min Scan# 3904

Delta R.T. 0.627 min

Lab File: VU055069.D

Acq: 02 Sep 2023 03:09

Tgt Ion:180 Resp: 11610

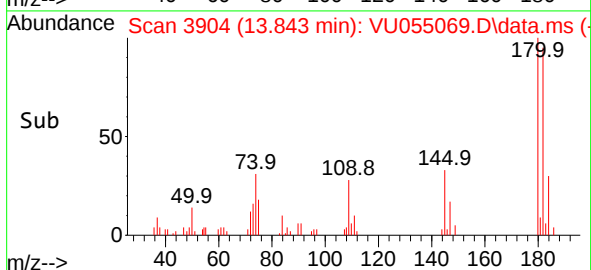
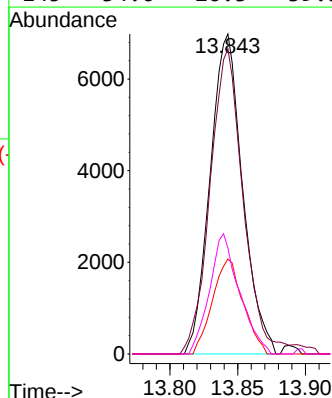
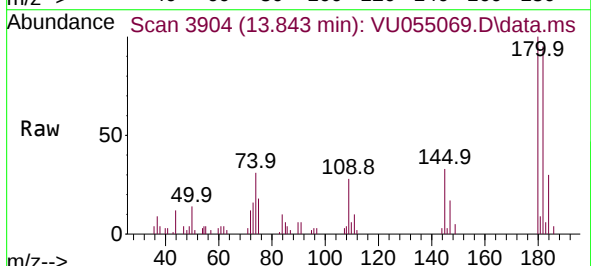
Ion Ratio Lower Upper

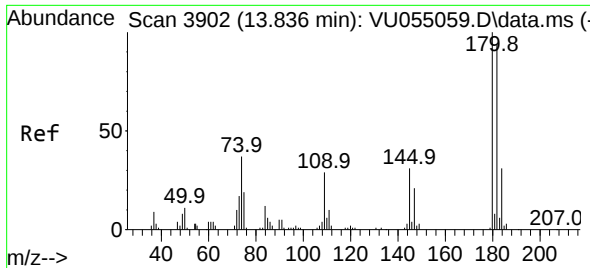
180 100

182 98.6 75.8 113.6

184 28.0 24.0 36.0

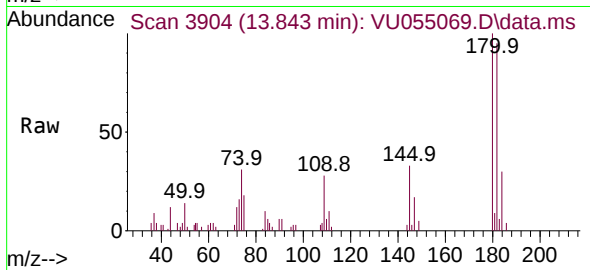
145 34.6 26.3 39.5



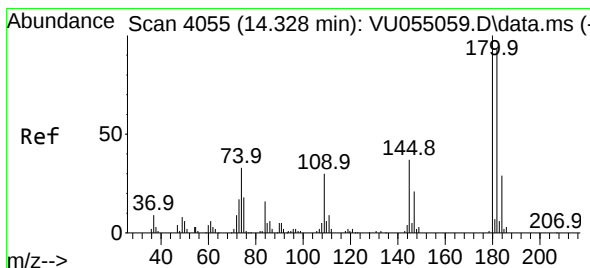
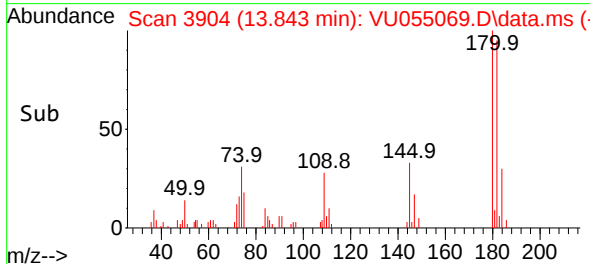
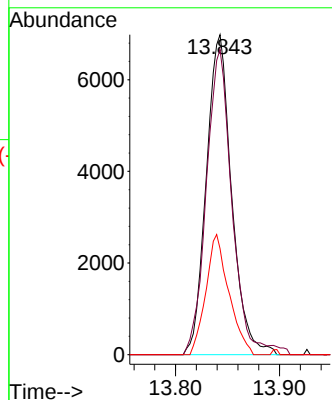


#70
 1,2,4-trichlorobenzene
 Concen: 0.753 ug/L
 RT: 13.843 min Scan# 3904
 Delta R.T. 0.007 min
 Lab File: VU055069.D
 Acq: 02 Sep 2023 03:09

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion:180 Resp: 11840
 Ion Ratio Lower Upper
 180 100
 182 96.7 73.6 110.4
 145 34.0 25.8 38.8



#72
 1,2,3-Trichlorobenzene
 Concen: 0.445 ug/L
 RT: 14.331 min Scan# 4056
 Delta R.T. 0.003 min
 Lab File: VU055069.D
 Acq: 02 Sep 2023 03:09

Tgt Ion:180 Resp: 6080
 Ion Ratio Lower Upper
 180 100
 182 99.3 75.6 113.4
 145 34.5 27.0 40.6

