

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121823\
 Data File : VU057004.D
 Acq On : 18 Dec 2023 19:35
 Operator : MD/SY
 Sample : 05811-14
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 19 01:43:47 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR121123WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Tue Dec 19 01:20:32 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.242	114	243036	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.412	117	255129	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.808	152	107021	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.596	65	89622	4.302	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	86.000%
7) Chloroethane-d5	1.904	69	70791	4.541	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	90.800%
11) 1,1-Dichloroethene-d2	2.560	65	40617	4.557	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	91.200%
20) 2-Butanone-d5	4.618	46	180736	43.931	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	87.860%
24) Chloroform-d	5.055	84	179689	4.555	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.000%
26) 1,2-Dichloroethane-d4	5.695	65	84618	4.533	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.600%
32) Benzene-d6	5.721	84	346450	4.378	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.600%
36) 1,2-Dichloropropane-d6	6.682	67	109141	4.406	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	88.200%
41) Toluene-d8	7.895	98	286234	4.047	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	81.000%
43) trans-1,3-Dichloroprop...	8.177	79	37322	3.886	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	77.800%
46) 2-Hexanone-d5	8.628	63	144341	39.843	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	79.680%
56) 1,1,2,2-Tetrachloroeth...	10.750	84	79586	4.441	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	88.800%
66) 1,2-Dichlorobenzene-d4	12.187	152	98693	4.691	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	93.800%
Target Compounds						
					Qvalue	
3) Chloromethane	1.515	50	6177	0.247	ug/L	92
5) Vinyl chloride	1.599	62	22183	0.892	ug/L #	61
8) Chloroethane	1.924	64	2608	0.179	ug/L #	77
10) 1,1,2-Trichloro-1,2,2-...	2.576	101	59001	2.745	ug/L	99
12) 1,1-Dichloroethene	2.573	96	9692	0.491	ug/L #	1
17) Methyl tert-butyl Ether	3.355	73	9671	0.221	ug/L #	95
18) trans-1,2-Dichloroethene	3.351	96	9442	0.472	ug/L	92
19) 1,1-Dichloroethane	3.863	63	20123	0.523	ug/L	95
22) cis-1,2-Dichloroethene	4.660	96	269647	12.389	ug/L	98
27) 1,2-Dichloroethane	5.792	62	17963	0.753	ug/L #	92
34) Trichloroethene	6.534	95	277665	11.289	ug/L	98
35) Methylcyclohexane	6.686	83	26349	0.726	ug/L #	18
37) 1,2-Dichloropropane	6.785	63	7593	0.331	ug/L #	92
47) Tetrachloroethene	8.550	164	11616	0.675	ug/L	95
49) Dibromochloromethane	8.550	129	12330	0.692	ug/L #	11
51) Chlorobenzene	9.444	112	60648	1.026	ug/L	99
61) 1,2,3-Trichloropropane	11.746	75	3119	0.271	ug/L #	52
64) 1,3-Dichlorobenzene	11.746	146	9437	0.236	ug/L	95
65) 1,4-Dichlorobenzene	11.830	146	20039	0.509	ug/L	98

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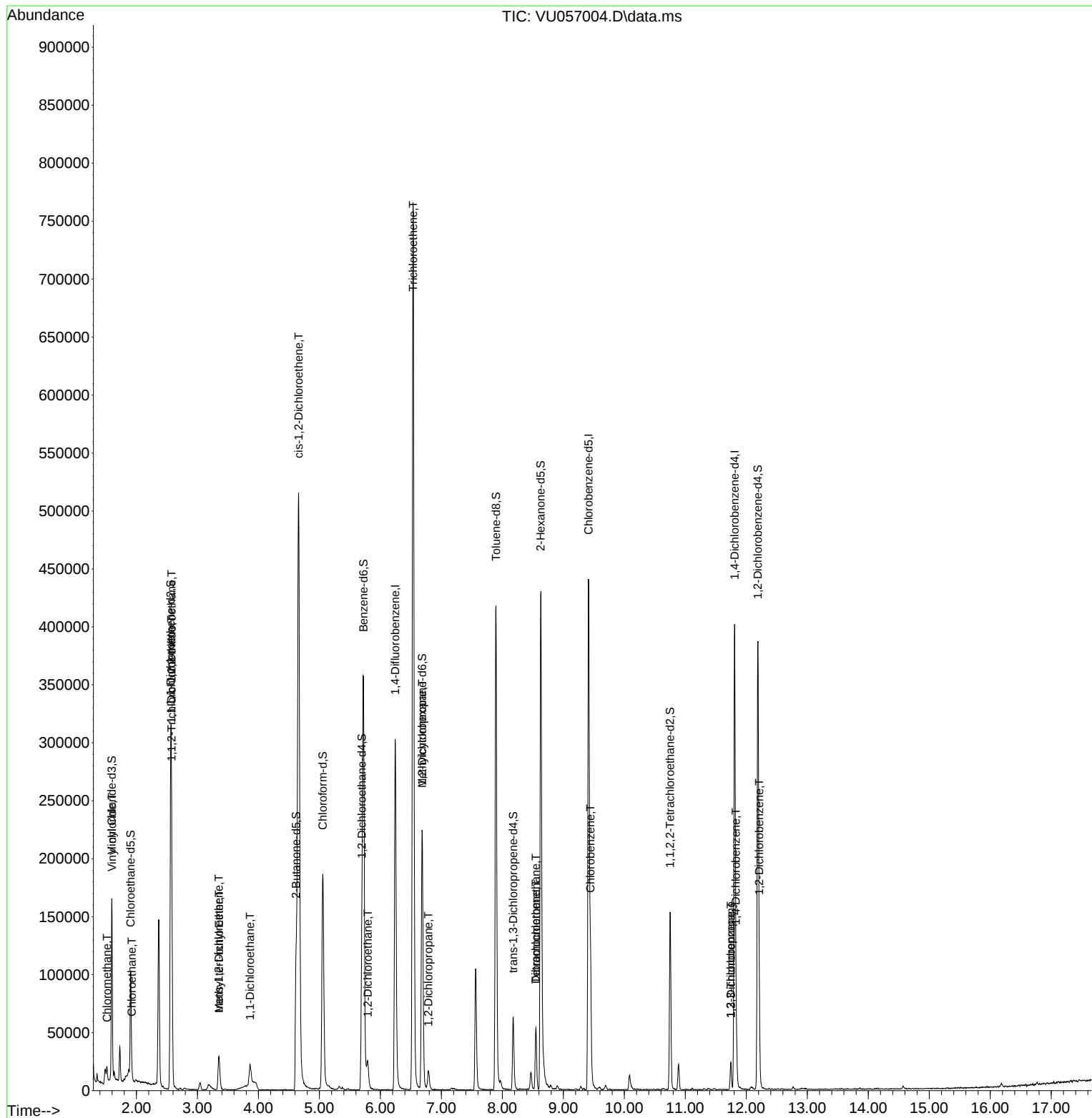
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) 1,2-Dichlorobenzene	12.209	146	24699	0.678	ug/L	93

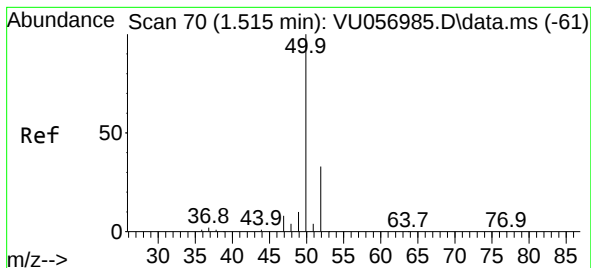
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.247 ug/L

RT: 1.515 min Scan# 70

Delta R.T. 0.000 min

Lab File: VU057004.D

Acq: 18 Dec 2023 19:35

Instrument :

MSVOA_U

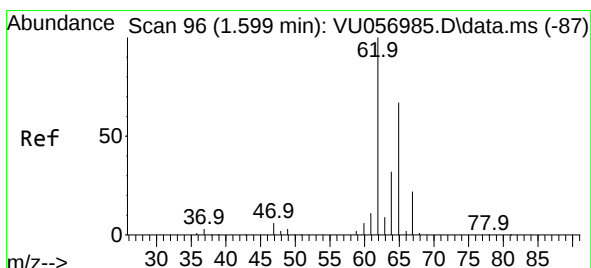
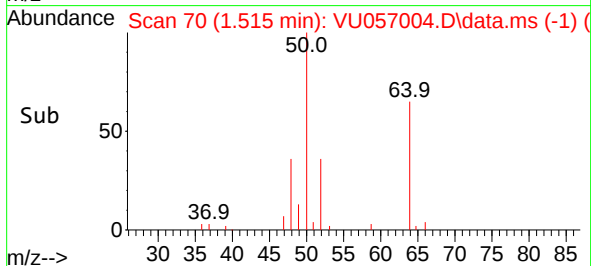
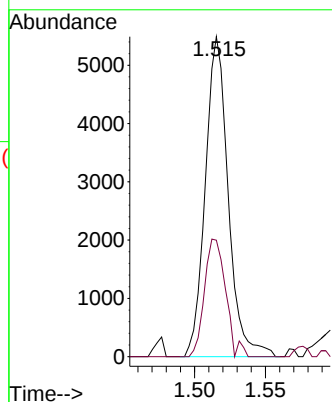
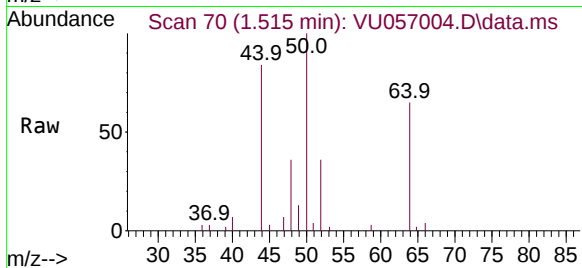
ClientSampleId :

Tgt Ion: 50 Resp: 6177

Ion Ratio Lower Upper

50 100

52 36.4 22.5 41.7



#5

Vinyl chloride

Concen: 0.892 ug/L

RT: 1.599 min Scan# 96

Delta R.T. 0.000 min

Lab File: VU057004.D

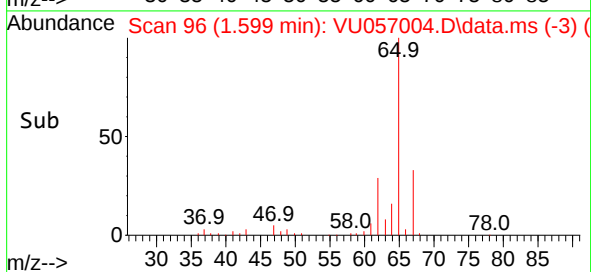
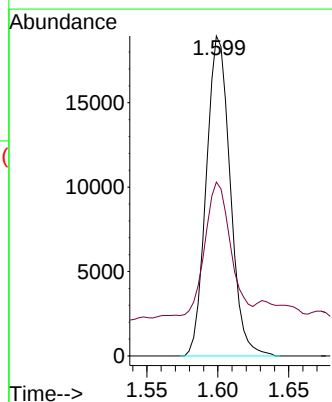
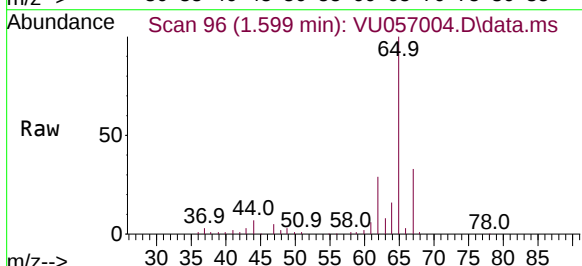
Acq: 18 Dec 2023 19:35

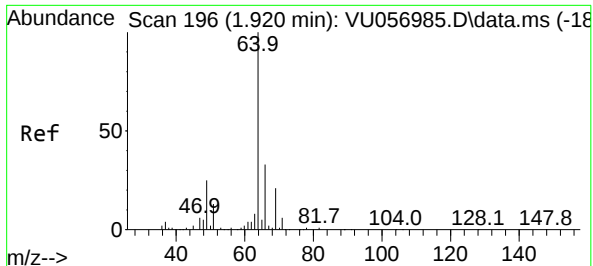
Tgt Ion: 62 Resp: 22183

Ion Ratio Lower Upper

62 100

64 54.4 22.8 42.4#





#8

Chloroethane

Concen: 0.179 ug/L

RT: 1.924 min Scan# 196

Delta R.T. 0.004 min

Lab File: VU057004.D

Acq: 18 Dec 2023 19:35

Instrument :

MSVOA_U

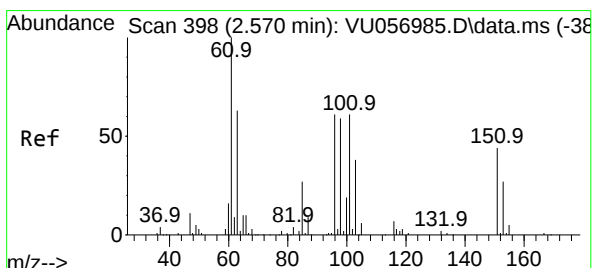
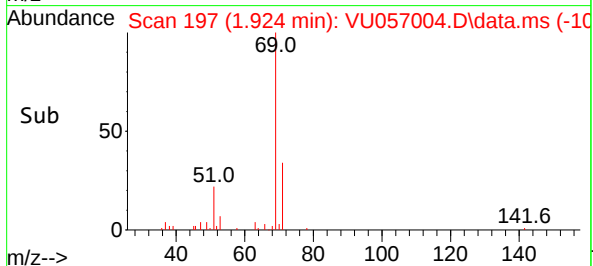
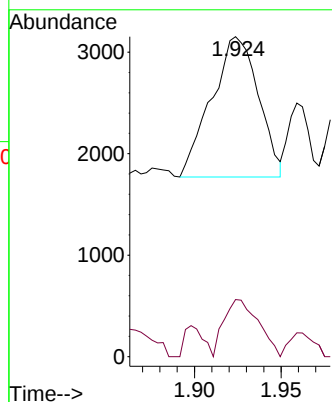
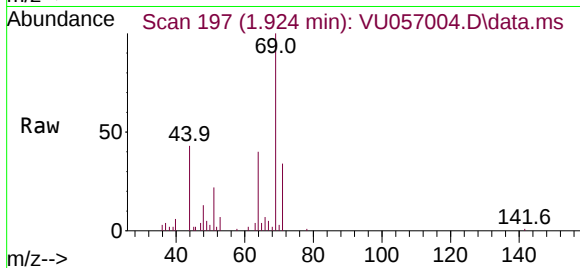
ClientSampleId :

Tgt Ion: 64 Resp: 2608

Ion Ratio Lower Upper

64 100

66 17.9 21.4 39.8#



#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 2.745 ug/L

RT: 2.576 min Scan# 400

Delta R.T. 0.007 min

Lab File: VU057004.D

Acq: 18 Dec 2023 19:35

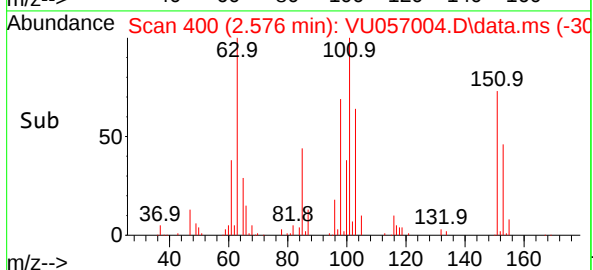
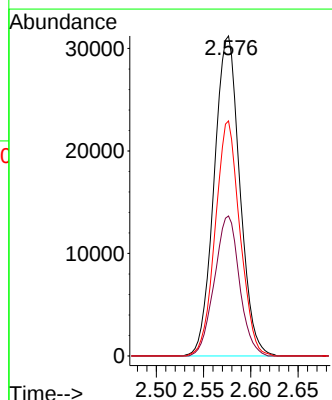
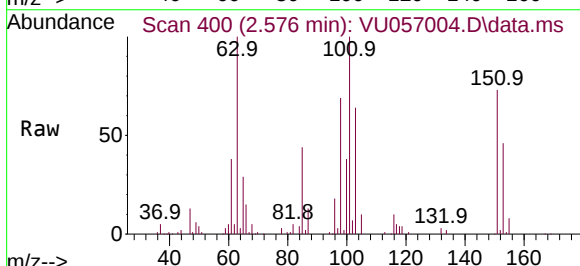
Tgt Ion:101 Resp: 59001

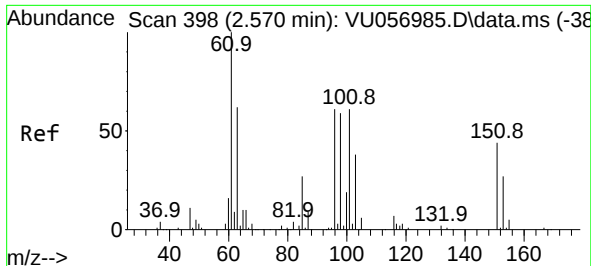
Ion Ratio Lower Upper

101 100

85 42.6 35.2 52.8

151 70.4 56.0 84.0





#12

1,1-Dichloroethene

Concen: 0.491 ug/L

RT: 2.573 min Scan# 398

Delta R.T. 0.004 min

Lab File: VU057004.D

Acq: 18 Dec 2023 19:35

Instrument :

MSVOA_U

ClientSampleId :

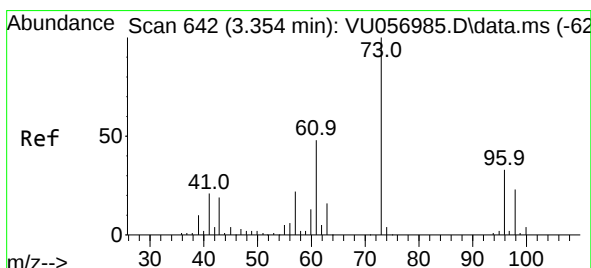
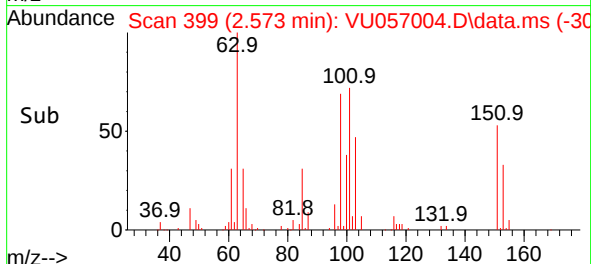
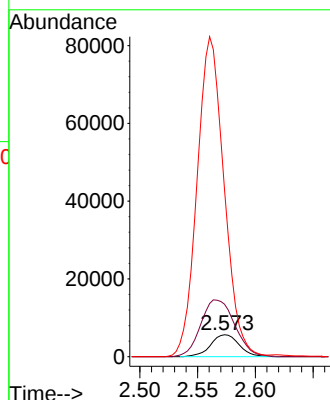
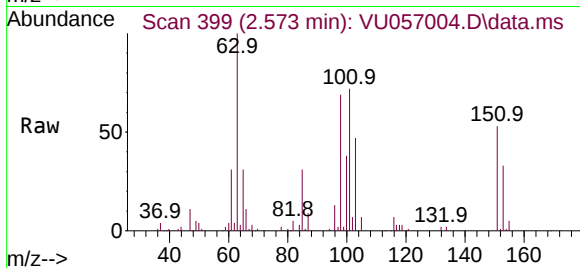
Tgt Ion: 96 Resp: 9692

Ion Ratio Lower Upper

96 100

61 240.0 119.0 221.0#

63 763.3 88.7 164.7#



#17

Methyl tert-butyl Ether

Concen: 0.221 ug/L

RT: 3.355 min Scan# 642

Delta R.T. 0.000 min

Lab File: VU057004.D

Acq: 18 Dec 2023 19:35

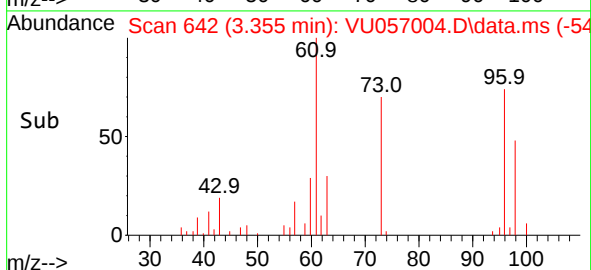
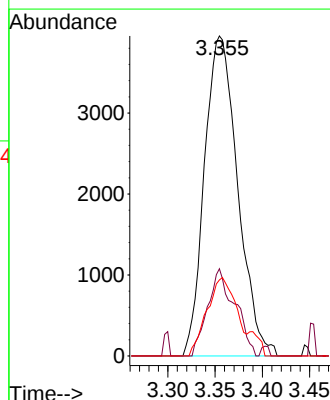
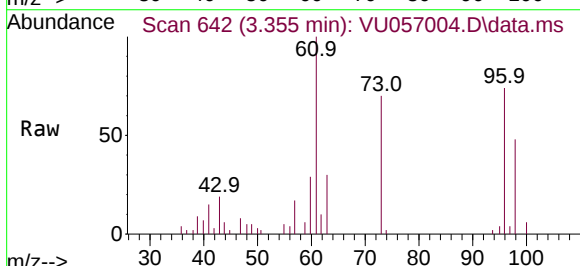
Tgt Ion: 73 Resp: 9671

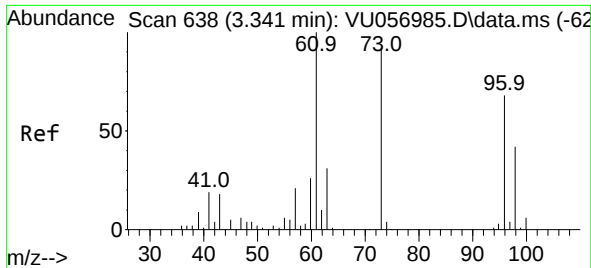
Ion Ratio Lower Upper

73 100

43 22.3 14.4 21.6#

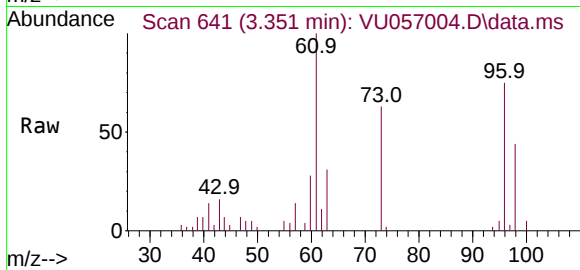
57 21.6 17.8 26.8





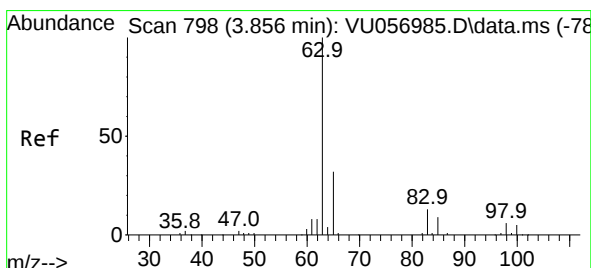
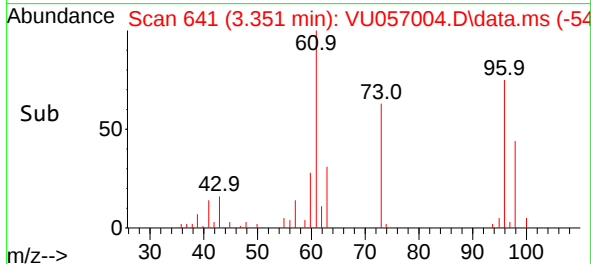
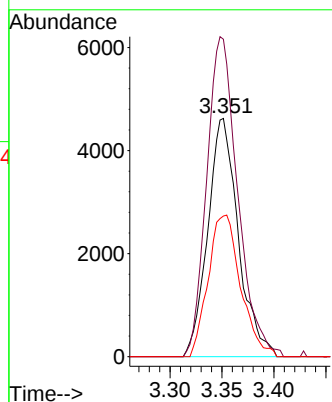
#18
trans-1,2-Dichloroethene
Concen: 0.472 ug/L
RT: 3.351 min Scan# 641
Delta R.T. 0.010 min
Lab File: VU057004.D
Acq: 18 Dec 2023 19:35

Instrument :
MSVOA_U
ClientSampleId :



Tgt Ion: 96 Resp: 9442

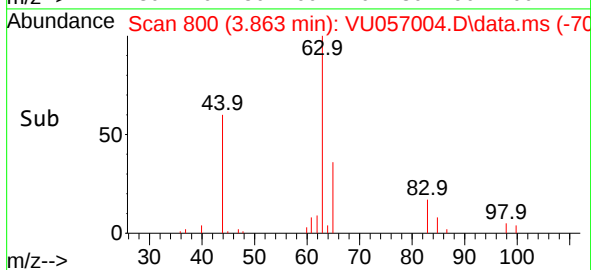
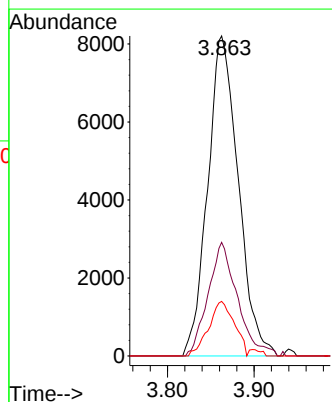
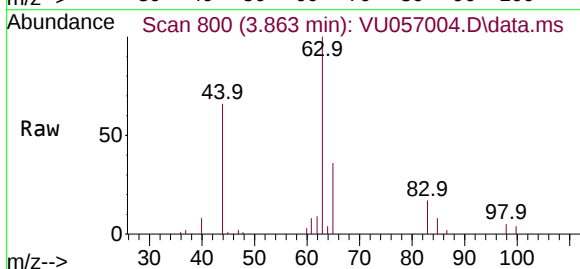
Ion	Ratio	Lower	Upper
96	100		
61	133.2	101.8	189.0
98	59.0	43.0	79.8

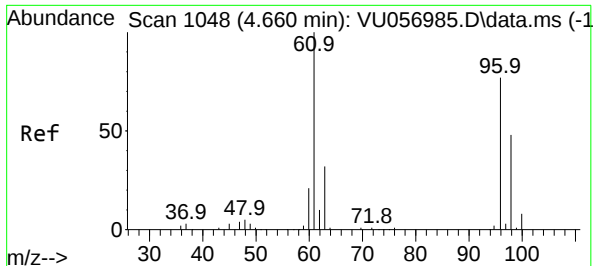


#19
1,1-Dichloroethane
Concen: 0.523 ug/L
RT: 3.863 min Scan# 800
Delta R.T. 0.007 min
Lab File: VU057004.D
Acq: 18 Dec 2023 19:35

Tgt Ion: 63 Resp: 20123

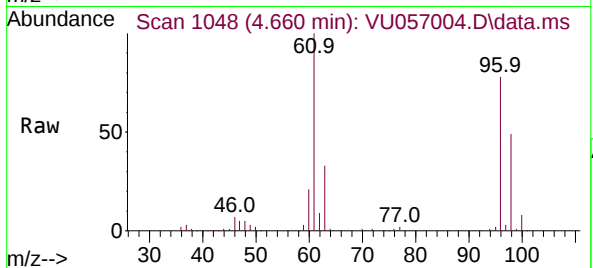
Ion	Ratio	Lower	Upper
63	100		
65	35.5	22.9	42.5
83	17.1	10.1	18.9



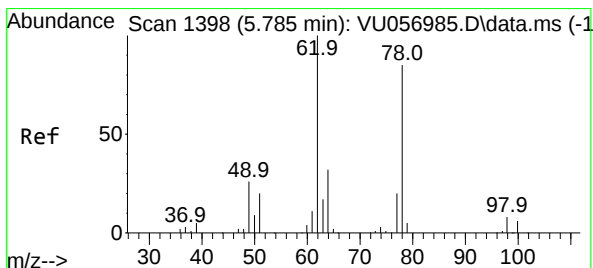
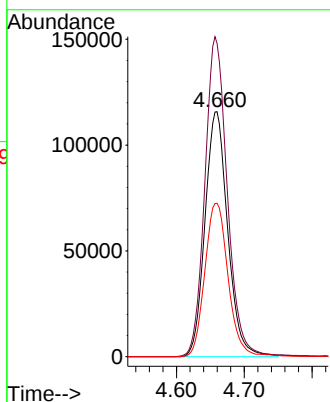
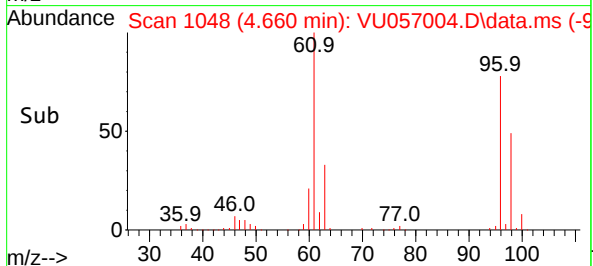


#22
 cis-1,2-Dichloroethene
 Concen: 12.389 ug/L
 RT: 4.660 min Scan# 1048
 Delta R.T. 0.000 min
 Lab File: VU057004.D
 Acq: 18 Dec 2023 19:35

Instrument :
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 ClientSampleId :

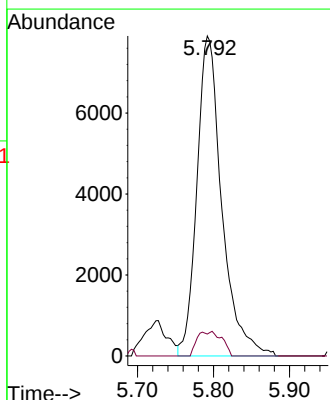
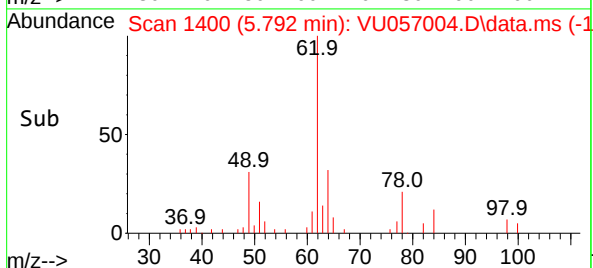
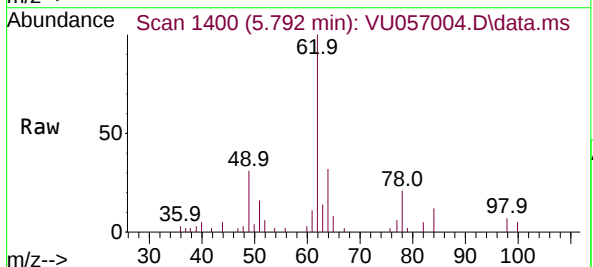


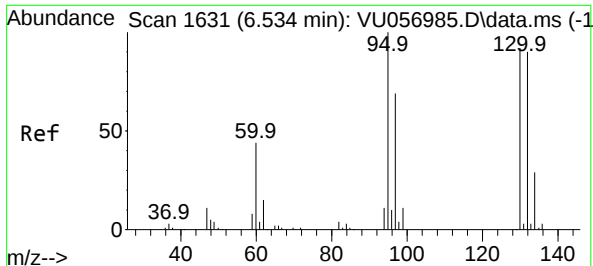
Tgt Ion: 96 Resp: 269647
 Ion Ratio Lower Upper
 96 100
 61 127.9 91.3 169.6
 98 62.6 44.2 82.0



#27
 1,2-Dichloroethane
 Concen: 0.753 ug/L
 RT: 5.792 min Scan# 1400
 Delta R.T. 0.007 min
 Lab File: VU057004.D
 Acq: 18 Dec 2023 19:35

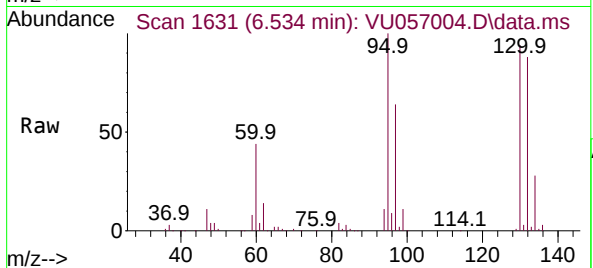
Tgt Ion: 62 Resp: 17963
 Ion Ratio Lower Upper
 62 100
 98 6.8 7.8 11.6#



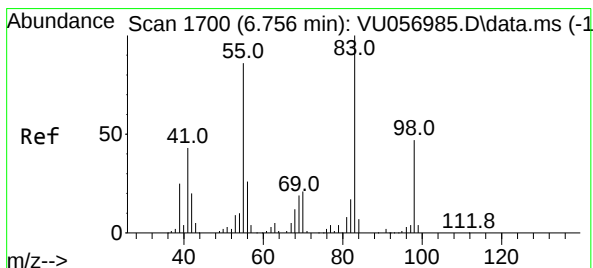
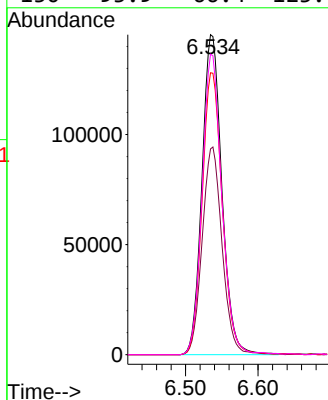
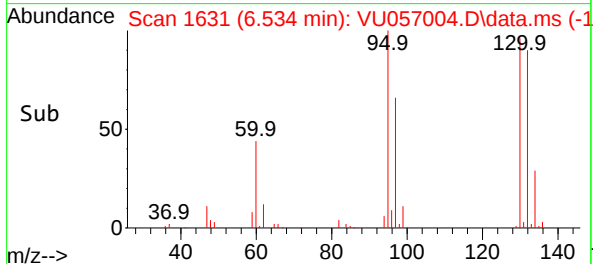


#34
Trichloroethene
Concen: 11.289 ug/L
RT: 6.534 min Scan# 1631
Delta R.T. 0.000 min
Lab File: VU057004.D
Acq: 18 Dec 2023 19:35

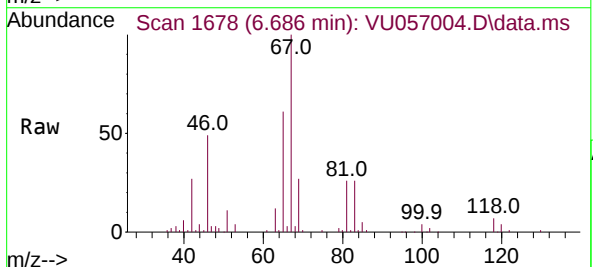
Instrument :
MSVOA_U
ClientSampleId :



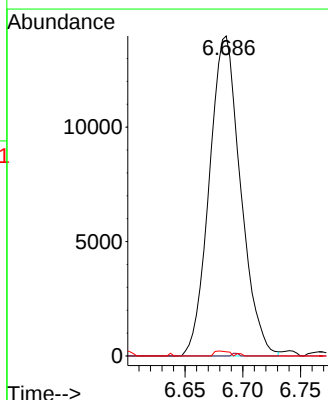
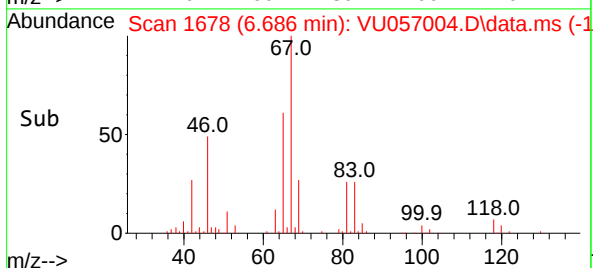
Tgt Ion: 95 Resp: 277665
Ion Ratio Lower Upper
95 100
97 64.3 46.1 85.5
132 88.1 63.6 118.0
130 93.9 66.4 123.4

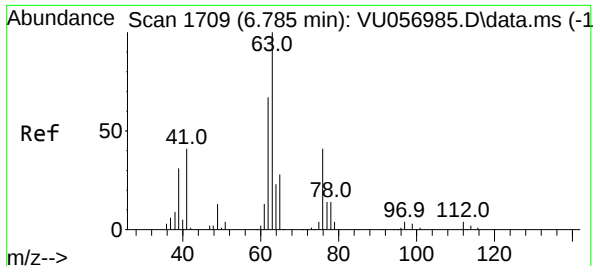


#35
Methylcyclohexane
Concen: 0.726 ug/L
RT: 6.686 min Scan# 1678
Delta R.T. -0.070 min
Lab File: VU057004.D
Acq: 18 Dec 2023 19:35



Tgt Ion: 83 Resp: 26349
Ion Ratio Lower Upper
83 100
55 0.2 64.6 97.0#
98 1.3 36.1 54.1#





#37

1,2-Dichloropropane

Concen: 0.331 ug/L

RT: 6.785 min Scan# 1

Delta R.T. 0.000 min

Lab File: VU057004.D

Acq: 18 Dec 2023 19:35

Instrument :

MSVOA_U

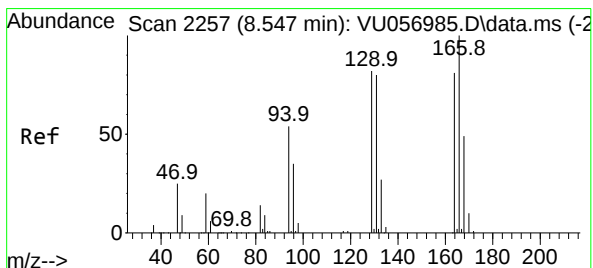
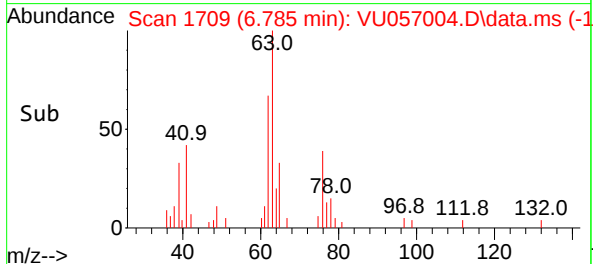
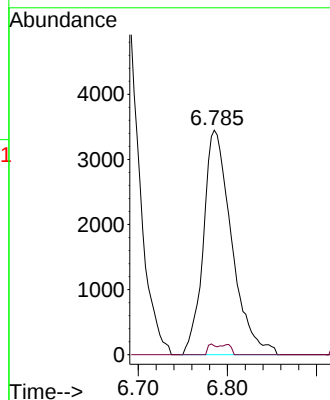
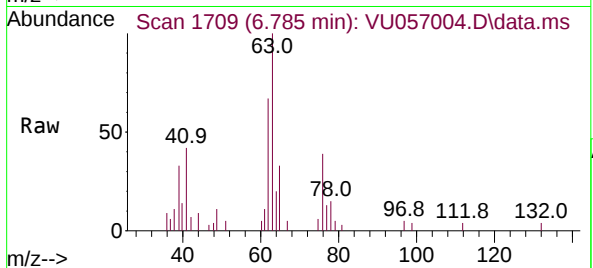
ClientSampleId :

Tgt Ion: 63 Resp: 7593

Ion Ratio Lower Upper

63 100

112 1.4 3.3 4.9#



#47

Tetrachloroethene

Concen: 0.675 ug/L

RT: 8.550 min Scan# 2258

Delta R.T. 0.004 min

Lab File: VU057004.D

Acq: 18 Dec 2023 19:35

Tgt Ion:164 Resp: 11616

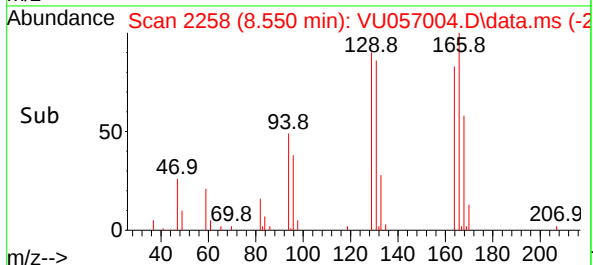
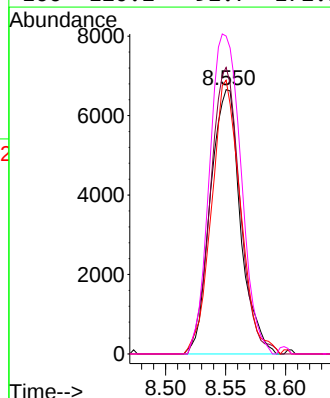
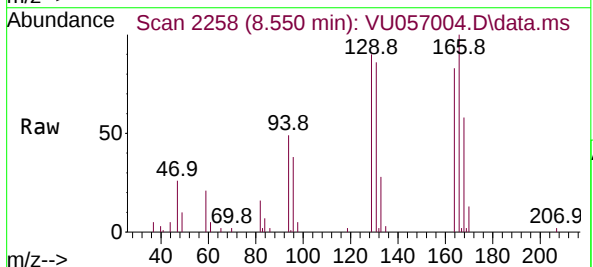
Ion Ratio Lower Upper

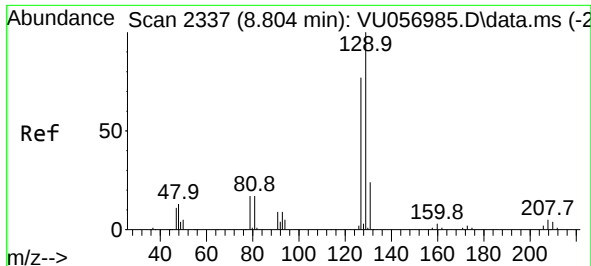
164 100

129 108.4 73.4 136.4

131 103.5 71.5 132.9

166 120.2 92.7 172.1





#49

Dibromochloromethane

Concen: 0.692 ug/L

RT: 8.550 min Scan# 21

Delta R.T. -0.254 min

Lab File: VU057004.D

Acq: 18 Dec 2023 19:35

Instrument :

MSVOA_U

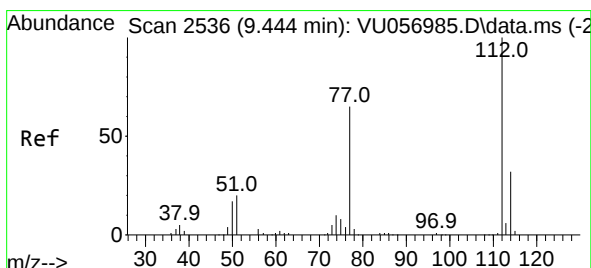
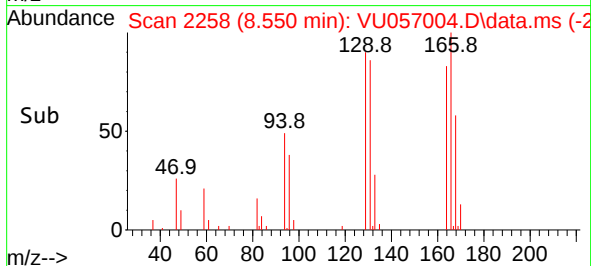
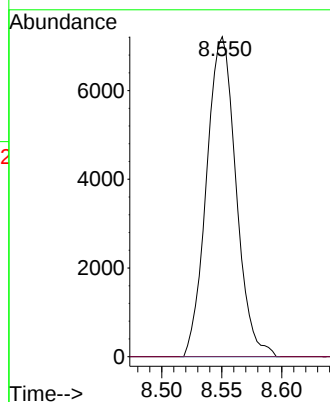
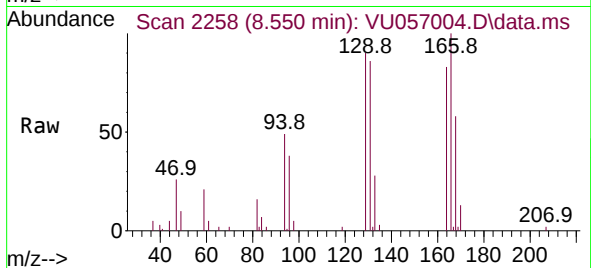
ClientSampleId :

Tgt Ion:129 Resp: 12330

Ion Ratio Lower Upper

129 100

127 0.0 53.9 100.1#



#51

Chlorobenzene

Concen: 1.026 ug/L

RT: 9.444 min Scan# 2536

Delta R.T. 0.000 min

Lab File: VU057004.D

Acq: 18 Dec 2023 19:35

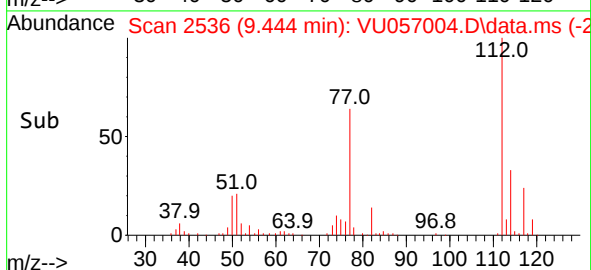
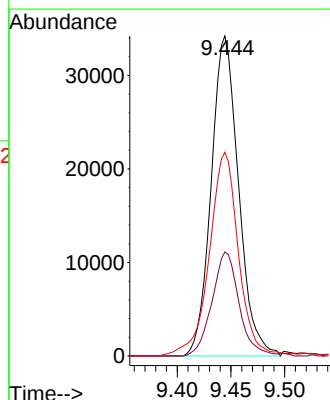
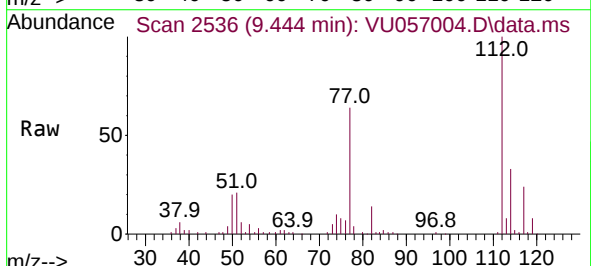
Tgt Ion:112 Resp: 60648

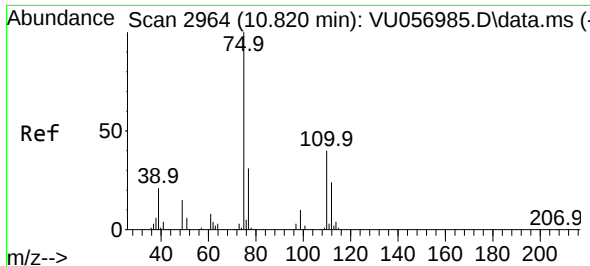
Ion Ratio Lower Upper

112 100

114 32.5 21.9 40.7

77 63.7 51.6 77.4

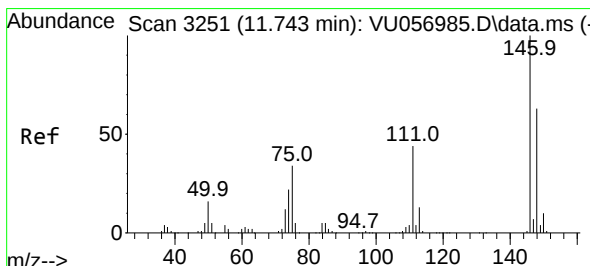
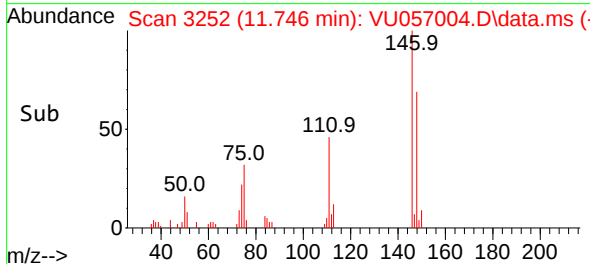
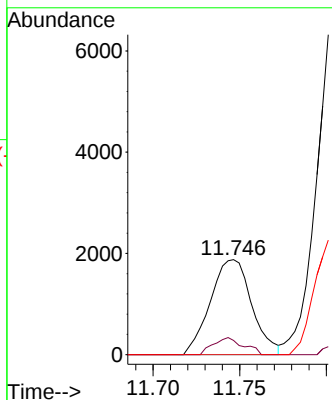
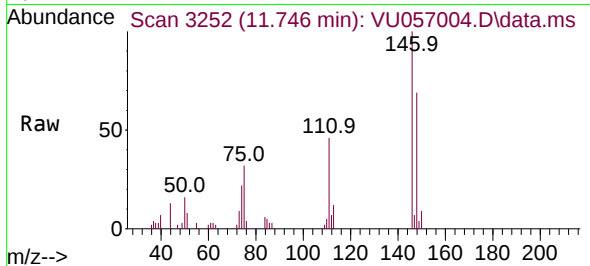




#61
1,2,3-Trichloropropane
Concen: 0.271 ug/L
RT: 11.746 min Scan# 3119
Delta R.T. 0.926 min
Lab File: VU057004.D
Acq: 18 Dec 2023 19:35

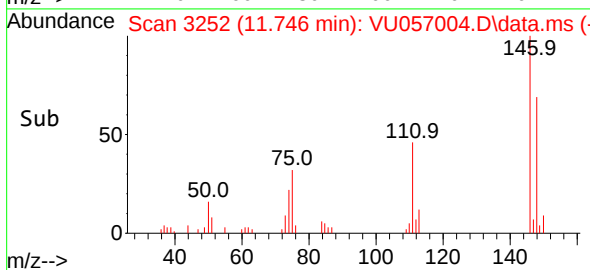
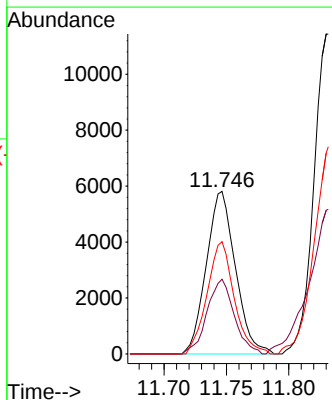
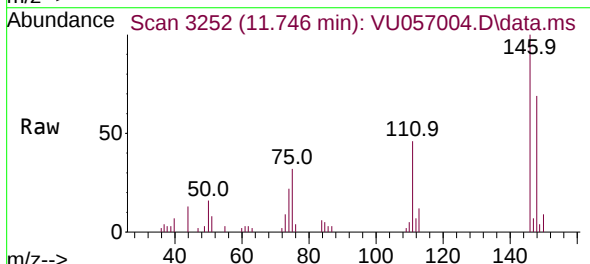
Instrument :
MSVOA_U
ClientSampleId :

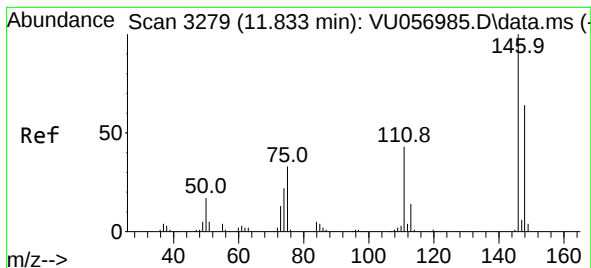
Tgt Ion: 75 Resp: 3119
Ion Ratio Lower Upper
75 100
110 13.0 28.4 42.6#
77 0.0 26.3 39.5#



#64
1,3-Dichlorobenzene
Concen: 0.236 ug/L
RT: 11.746 min Scan# 3252
Delta R.T. 0.004 min
Lab File: VU057004.D
Acq: 18 Dec 2023 19:35

Tgt Ion:146 Resp: 9437
Ion Ratio Lower Upper
146 100
111 46.0 31.7 58.9
148 69.1 44.3 82.3





#65

1,4-Dichlorobenzene

Concen: 0.509 ug/L

RT: 11.830 min Scan# 31

Delta R.T. -0.003 min

Lab File: VU057004.D

Acq: 18 Dec 2023 19:35

Instrument :

MSVOA_U

ClientSampleId :

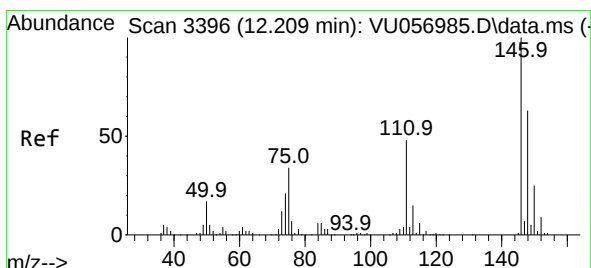
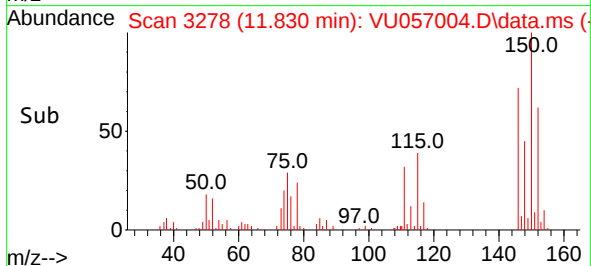
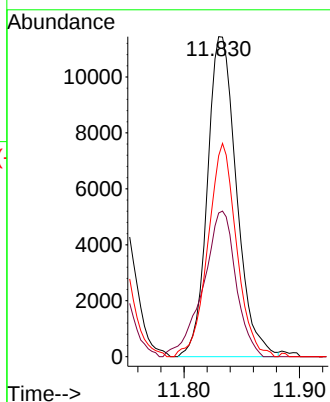
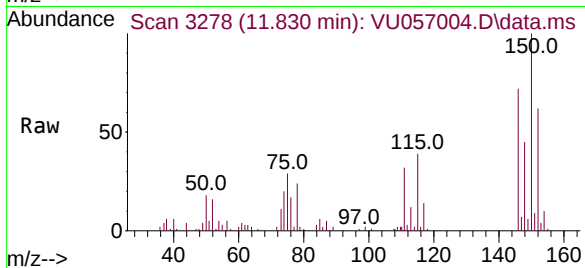
Tgt Ion:146 Resp: 20039

Ion Ratio Lower Upper

146 100

111 44.9 31.2 58.0

148 62.8 45.6 84.8



#67

1,2-Dichlorobenzene

Concen: 0.678 ug/L

RT: 12.209 min Scan# 3396

Delta R.T. 0.000 min

Lab File: VU057004.D

Acq: 18 Dec 2023 19:35

Tgt Ion:146 Resp: 24699

Ion Ratio Lower Upper

146 100

111 43.5 36.9 55.3

148 59.3 53.0 79.4

