

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU122223\
 Data File : VU057198.D
 Acq On : 22 Dec 2023 18:34
 Operator : MD/SY
 Sample : 05894-04DL 4X
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 22 22:50:42 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR122123WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Dec 22 22:46:58 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.242	114	180122	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.412	117	178294	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.807	152	79627	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.599	65	63263	3.675	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	73.400%
7) Chloroethane-d5	1.914	69	56985	4.021	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	80.400%
11) 1,1-Dichloroethene-d2	2.563	65	29236	3.920	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	78.400%
20) 2-Butanone-d5	4.624	46	139211	51.501	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	103.000%
24) Chloroform-d	5.055	84	142758	4.294	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	85.800%
26) 1,2-Dichloroethane-d4	5.695	65	71131	4.489	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.800%
32) Benzene-d6	5.721	84	260337	4.257	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	85.200%
36) 1,2-Dichloropropane-d6	6.685	67	79630	4.576	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	91.600%
41) Toluene-d8	7.891	98	214772	3.847	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	77.000%
43) trans-1,3-Dichloroprop...	8.174	79	28925	3.993	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	79.800%
46) 2-Hexanone-d5	8.627	63	114040	46.237	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	92.480%
56) 1,1,2,2-Tetrachloroeth...	10.749	84	59291	4.788	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.800%
66) 1,2-Dichlorobenzene-d4	12.187	152	77896	4.546	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	91.000%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.602	62	15995	1.016	ug/L	98
8) Chloroethane	1.933	64	40407	4.042	ug/L	97
12) 1,1-Dichloroethene	2.579	96	2134	0.158	ug/L #	1
16) Methylene chloride	3.042	84	5608	0.358	ug/L	98
19) 1,1-Dichloroethane	3.862	63	193990	7.444	ug/L	97
22) cis-1,2-Dichloroethene	4.660	96	105281	7.280	ug/L	98
29) 1,1,1-Trichloroethane	5.309	97	171334	6.047	ug/L	99
31) Carbon tetrachloride	5.309	117	20644	0.828	ug/L	95
34) Trichloroethene	6.537	95	74851	4.529	ug/L	98
35) Methylcyclohexane	6.682	83	19901	0.915	ug/L #	23
37) 1,2-Dichloropropane	6.682	63	8644	0.615	ug/L #	93
39) cis-1,3-Dichloropropene	7.566	75	2420	0.114	ug/L #	52
47) Tetrachloroethene	8.550	164	1792	0.151	ug/L	92
48) 2-Hexanone	8.679	43	2666	0.593	ug/L #	35
49) Dibromochloromethane	8.544	129	1912	0.152	ug/L #	10
61) 1,2,3-Trichloropropane	11.807	75	10104	1.362	ug/L #	66
67) 1,2-Dichlorobenzene	12.206	146	5991	0.241	ug/L	94

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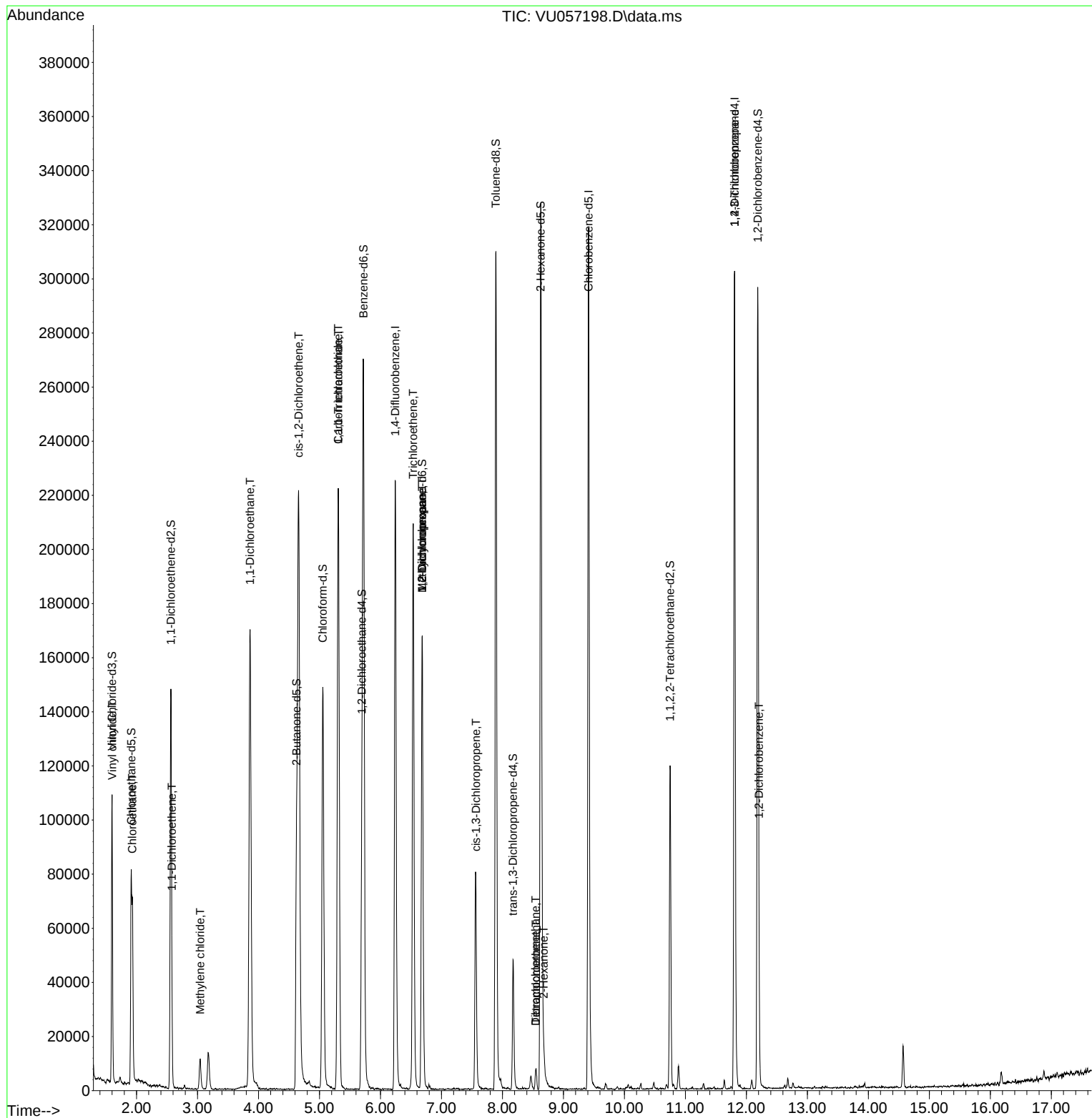
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

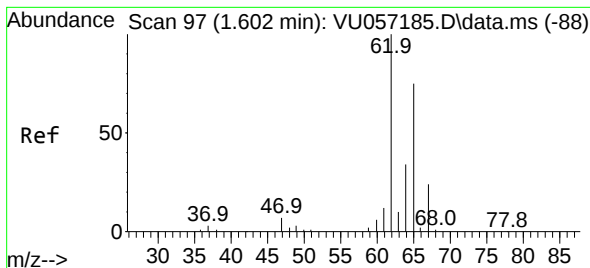
(#)=qualifier out of range (m)=manual integration (+)=signals summed						

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#5

Vinyl chloride

Concen: 1.016 ug/L

RT: 1.602 min Scan# 91

Delta R.T. -0.000 min

Lab File: VU057198.D

Acq: 22 Dec 2023 18:34

Instrument :

MSVOA_U

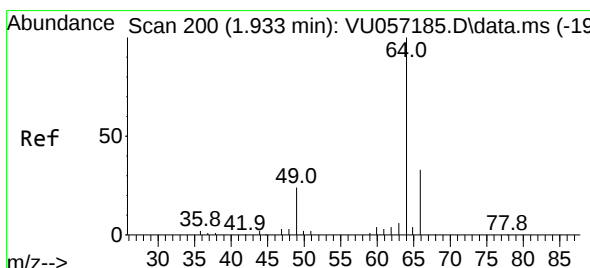
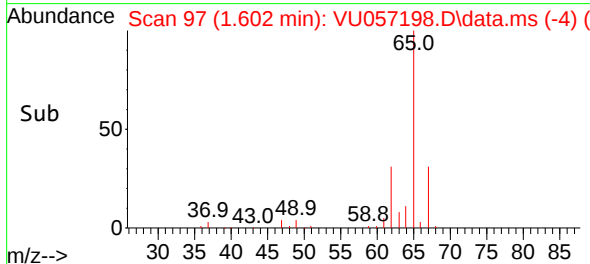
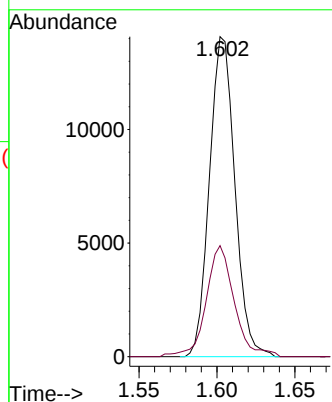
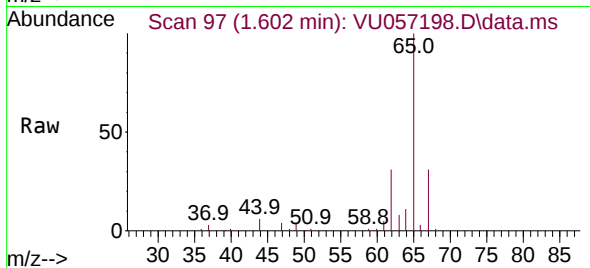
ClientSampleId :

Tgt Ion: 62 Resp: 15995

Ion Ratio Lower Upper

62 100

64 34.7 23.3 43.3



#8

Chloroethane

Concen: 4.042 ug/L

RT: 1.933 min Scan# 200

Delta R.T. -0.000 min

Lab File: VU057198.D

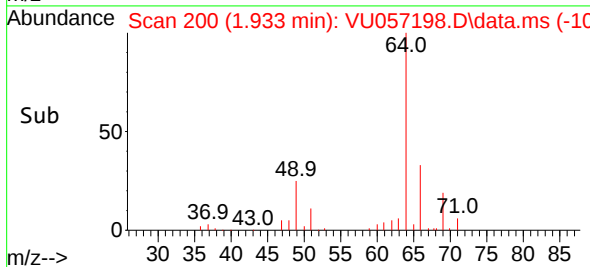
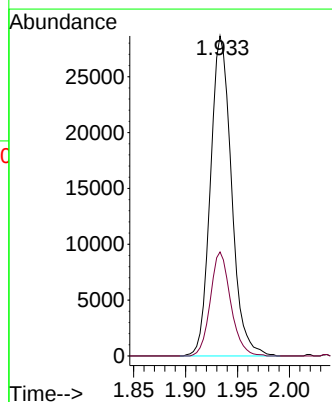
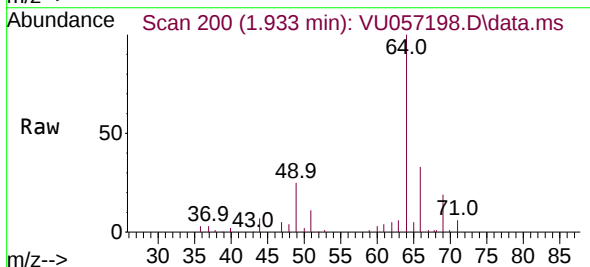
Acq: 22 Dec 2023 18:34

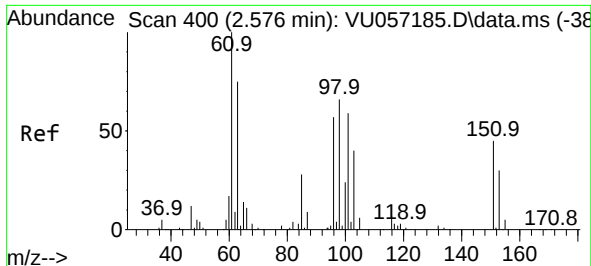
Tgt Ion: 64 Resp: 40407

Ion Ratio Lower Upper

64 100

66 32.5 21.6 40.2

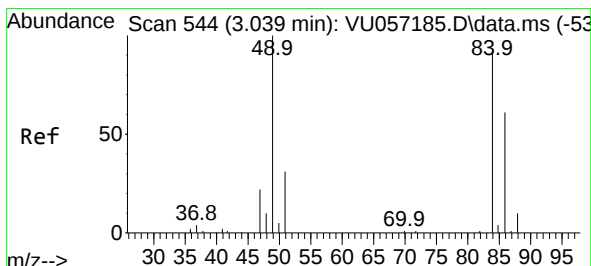
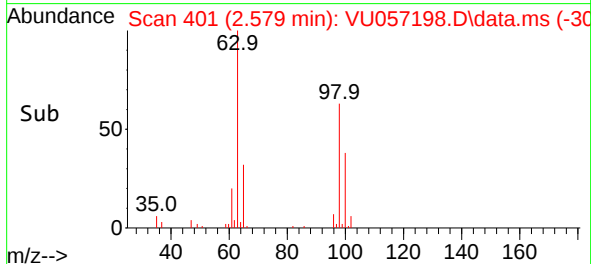
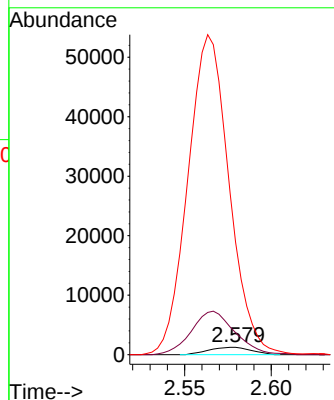
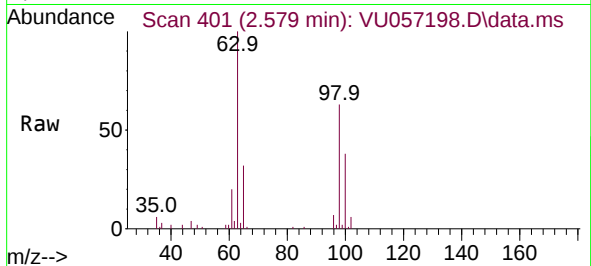




#12
1,1-Dichloroethene
Concen: 0.158 ug/L
RT: 2.579 min Scan# 400
Delta R.T. 0.003 min
Lab File: VU057198.D
Acq: 22 Dec 2023 18:34

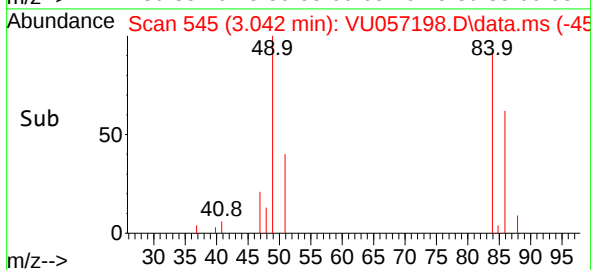
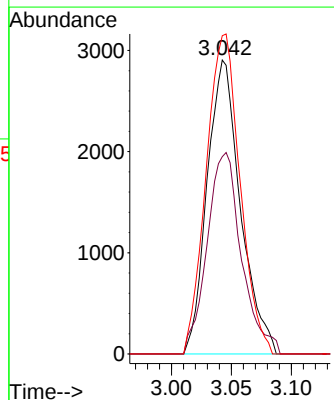
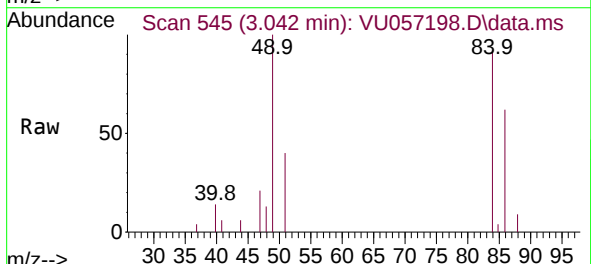
Instrument :
MSVOA_U
ClientSampleId :

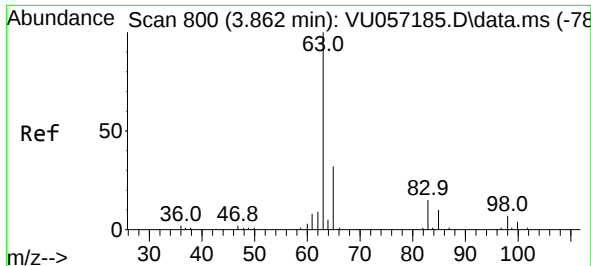
Tgt Ion: 96 Resp: 2134
Ion Ratio Lower Upper
96 100
61 299.0 119.6 222.0#
63 1529.0 96.2 178.8#



#16
Methylene chloride
Concen: 0.358 ug/L
RT: 3.042 min Scan# 545
Delta R.T. 0.003 min
Lab File: VU057198.D
Acq: 22 Dec 2023 18:34

Tgt Ion: 84 Resp: 5608
Ion Ratio Lower Upper
84 100
86 67.1 44.7 82.9
49 108.3 76.0 141.2





#19

1,1-Dichloroethane

Concen: 7.444 ug/L

RT: 3.862 min Scan# 800

Delta R.T. -0.000 min

Lab File: VU057198.D

Acq: 22 Dec 2023 18:34

Instrument :

MSVOA_U

ClientSampleId :

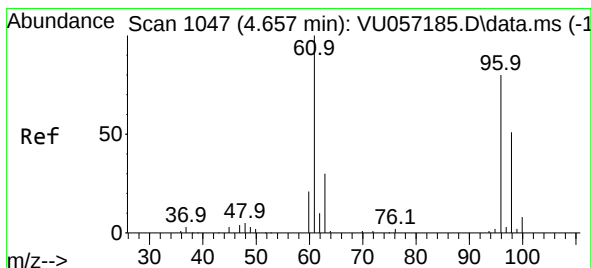
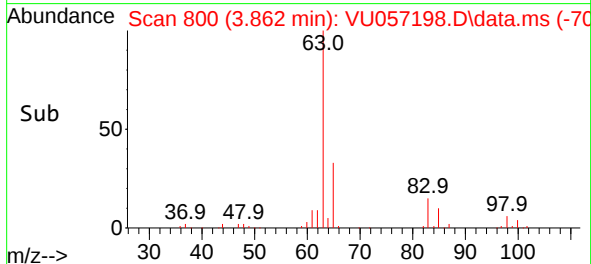
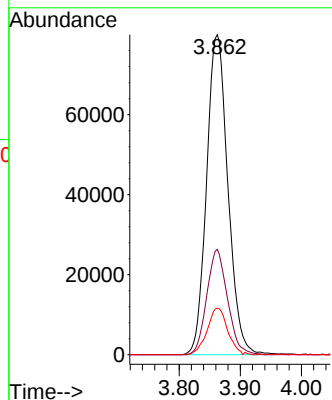
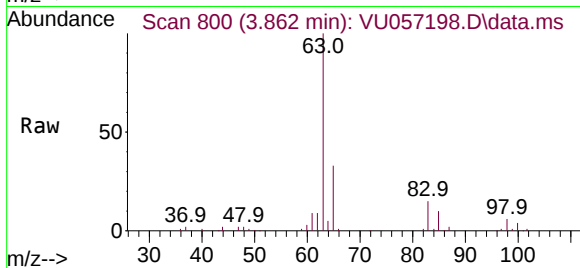
Tgt Ion: 63 Resp: 193990

Ion Ratio Lower Upper

63 100

65 32.9 21.6 40.2

83 14.5 10.2 19.0



#22

cis-1,2-Dichloroethene

Concen: 7.280 ug/L

RT: 4.660 min Scan# 1048

Delta R.T. 0.003 min

Lab File: VU057198.D

Acq: 22 Dec 2023 18:34

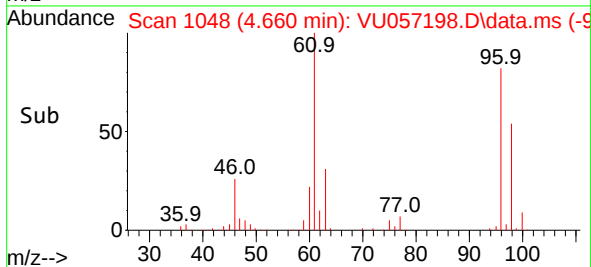
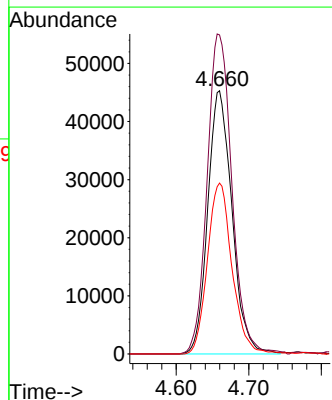
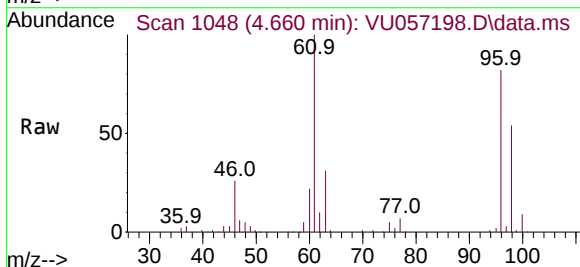
Tgt Ion: 96 Resp: 105281

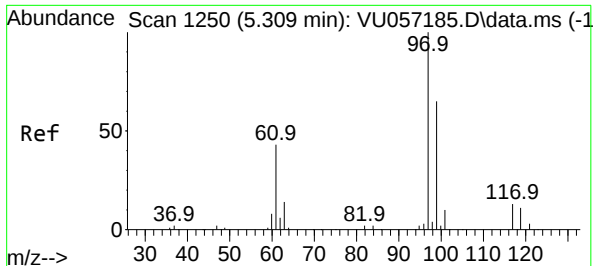
Ion Ratio Lower Upper

96 100

61 121.2 86.8 161.2

98 64.9 45.5 84.5





#29

1,1,1-Trichloroethane

Concen: 6.047 ug/L

RT: 5.309 min Scan# 1250

Delta R.T. -0.000 min

Lab File: VU057198.D

Acq: 22 Dec 2023 18:34

Instrument :

MSVOA_U

ClientSampleId :

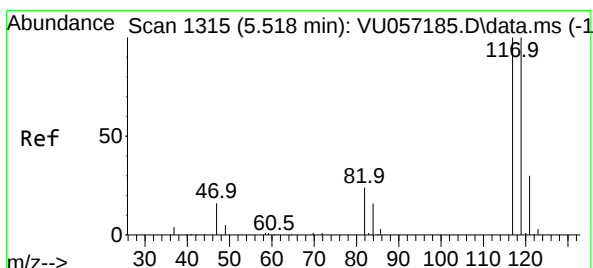
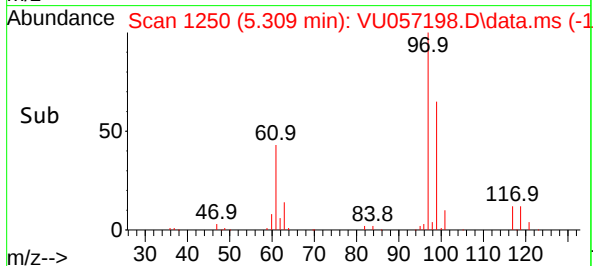
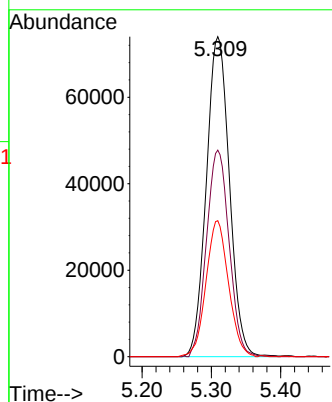
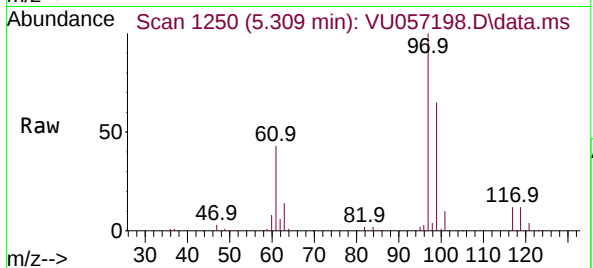
Tgt Ion: 97 Resp: 171334

Ion Ratio Lower Upper

97 100

99 63.3 51.2 76.8

61 41.5 32.5 48.7



#31

Carbon tetrachloride

Concen: 0.828 ug/L

RT: 5.309 min Scan# 1250

Delta R.T. -0.209 min

Lab File: VU057198.D

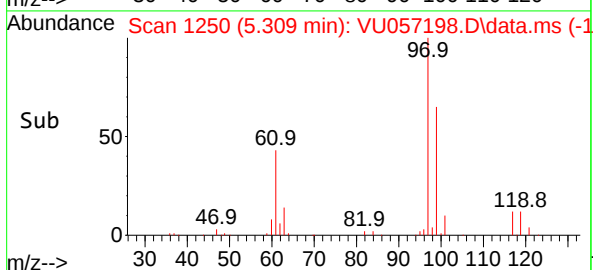
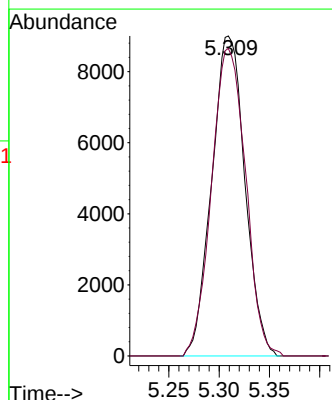
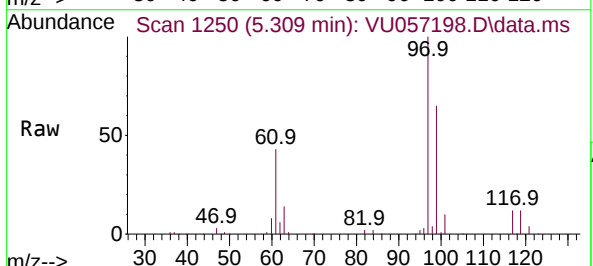
Acq: 22 Dec 2023 18:34

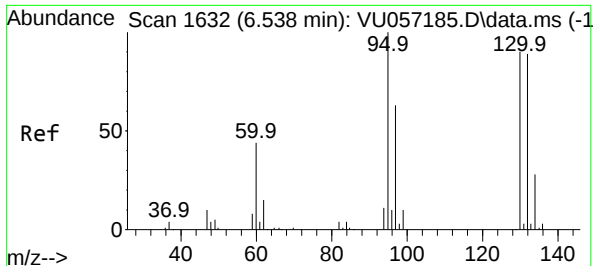
Tgt Ion: 117 Resp: 20644

Ion Ratio Lower Upper

117 100

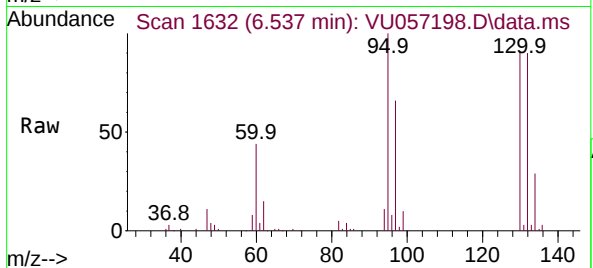
119 98.7 75.1 112.7





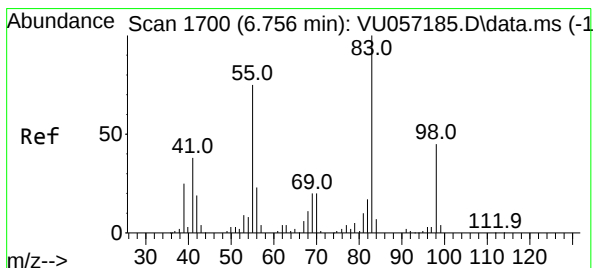
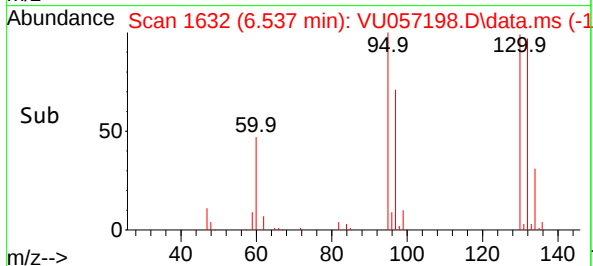
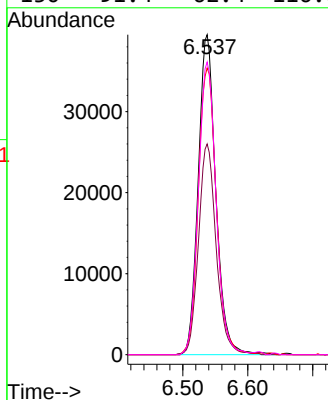
#34
Trichloroethene
Concen: 4.529 ug/L
RT: 6.537 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VU057198.D
Acq: 22 Dec 2023 18:34

Instrument :
MSVOA_U
ClientSampleId :



Tgt Ion: 95 Resp: 74851

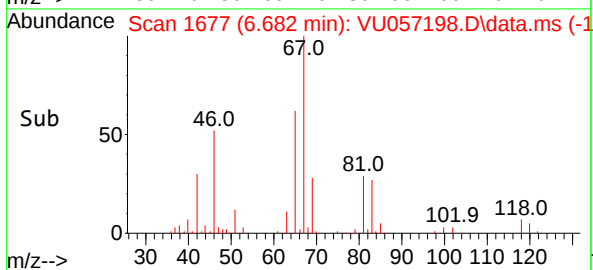
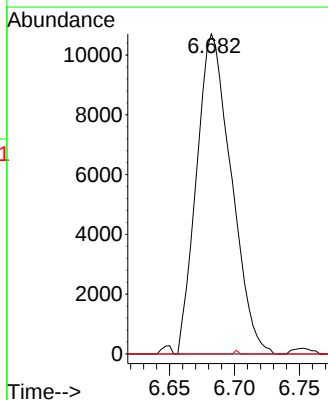
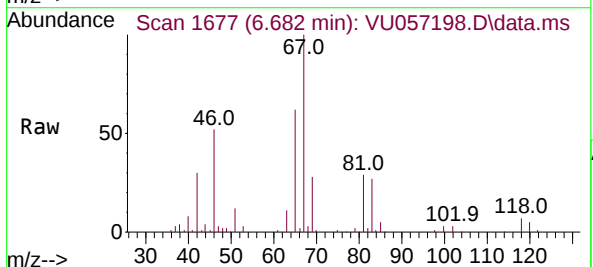
Ion	Ratio	Lower	Upper
95	100		
97	65.8	44.3	82.3
132	89.6	62.6	116.2
130	91.4	62.4	116.0

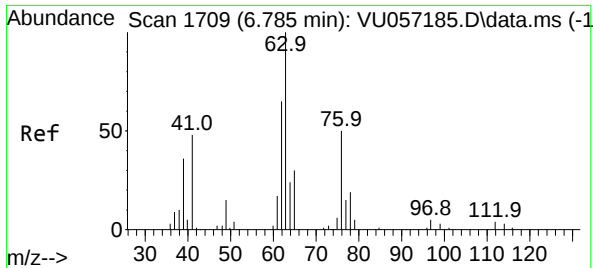


#35
Methylcyclohexane
Concen: 0.915 ug/L
RT: 6.682 min Scan# 1677
Delta R.T. -0.074 min
Lab File: VU057198.D
Acq: 22 Dec 2023 18:34

Tgt Ion: 83 Resp: 19901

Ion	Ratio	Lower	Upper
83	100		
55	2.9	61.3	91.9#
98	3.7	36.6	55.0#





#37

1,2-Dichloropropane

Concen: 0.615 ug/L

RT: 6.682 min Scan# 1

Delta R.T. -0.103 min

Lab File: VU057198.D

Acq: 22 Dec 2023 18:34

Instrument :

MSVOA_U

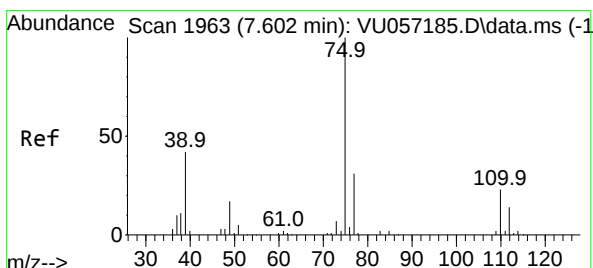
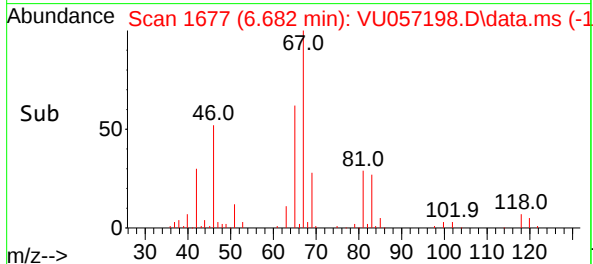
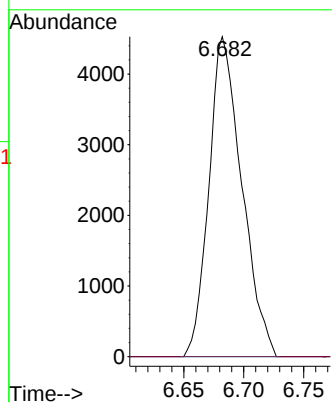
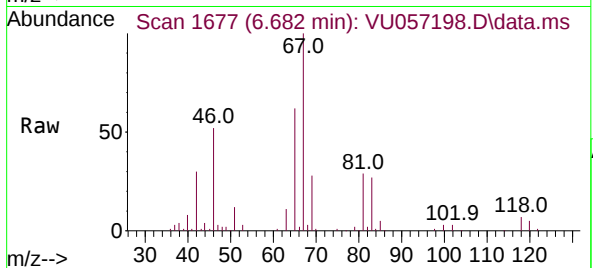
ClientSampleId :

Tgt Ion: 63 Resp: 8644

Ion Ratio Lower Upper

63 100

112 1.5 3.1 4.7#



#39

cis-1,3-Dichloropropene

Concen: 0.114 ug/L

RT: 7.566 min Scan# 1952

Delta R.T. -0.035 min

Lab File: VU057198.D

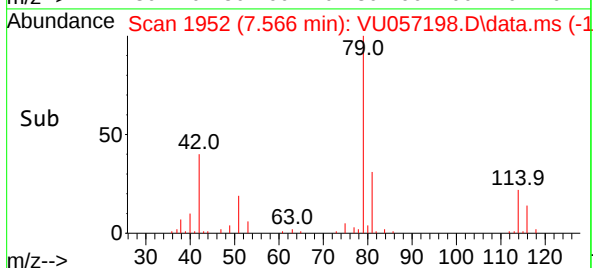
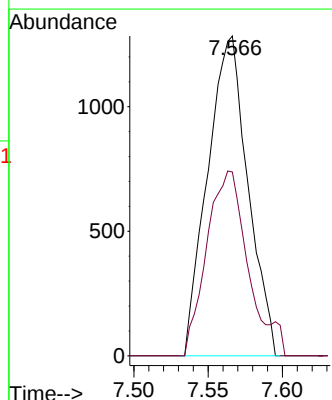
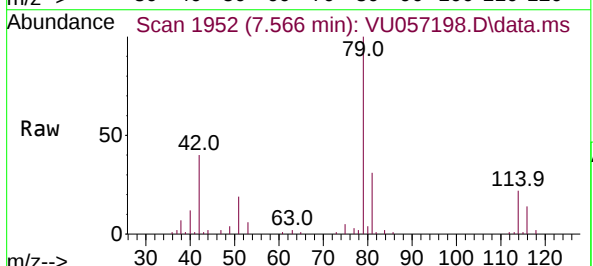
Acq: 22 Dec 2023 18:34

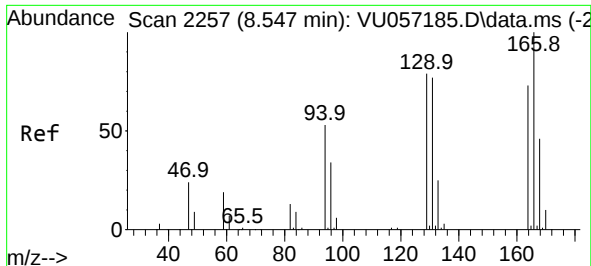
Tgt Ion: 75 Resp: 2420

Ion Ratio Lower Upper

75 100

77 57.5 21.8 40.4#





#47

Tetrachloroethene

Concen: 0.151 ug/L

RT: 8.550 min Scan# 21

Delta R.T. 0.003 min

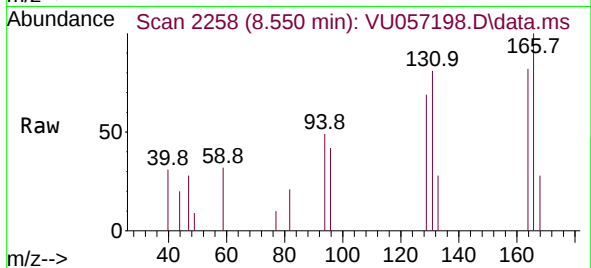
Lab File: VU057198.D

Acq: 22 Dec 2023 18:34

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:164 Resp: 1792

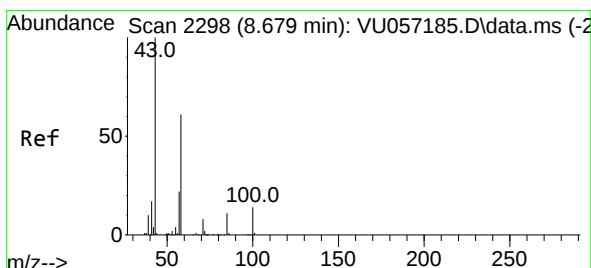
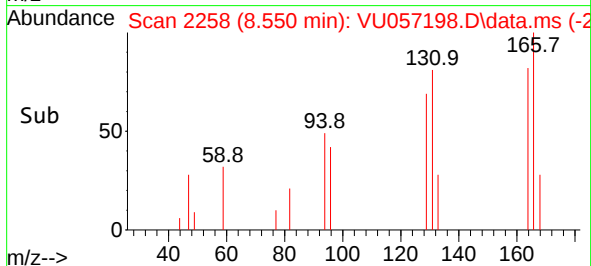
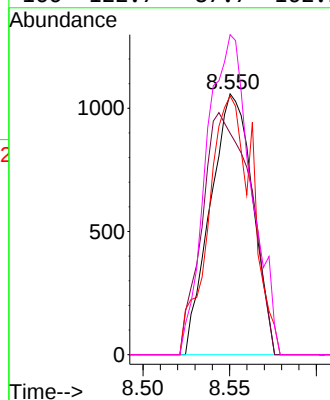
Ion Ratio Lower Upper

164 100

129 84.9 72.9 135.3

131 99.2 71.7 133.3

166 122.7 87.7 162.9



#48

2-Hexanone

Concen: 0.593 ug/L

RT: 8.679 min Scan# 2298

Delta R.T. -0.000 min

Lab File: VU057198.D

Acq: 22 Dec 2023 18:34

Tgt Ion: 43 Resp: 2666

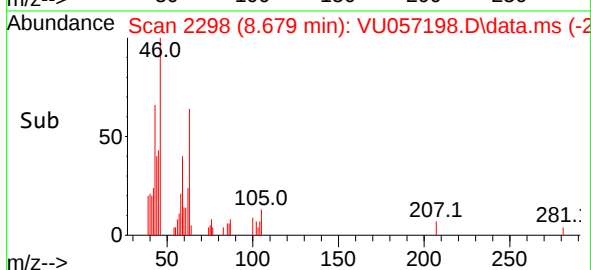
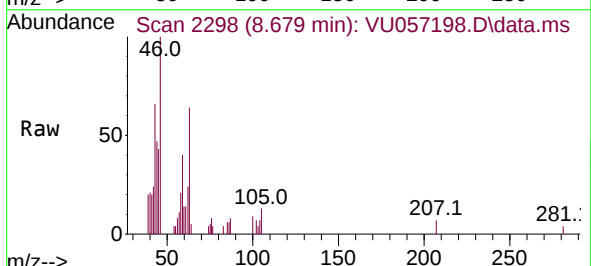
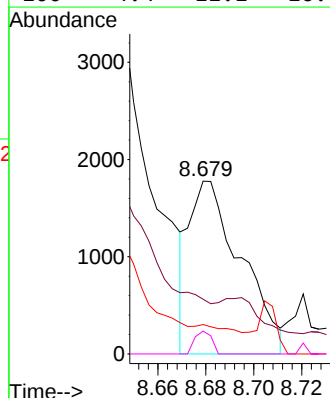
Ion Ratio Lower Upper

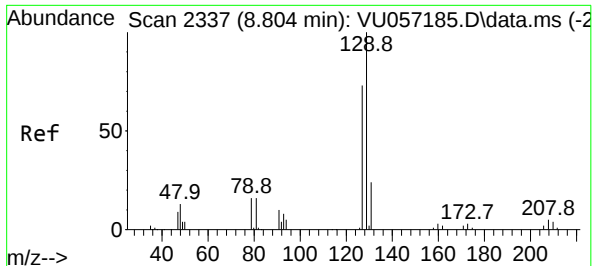
43 100

58 0.0 49.8 74.8#

57 0.0 18.5 27.7#

100 4.4 11.1 16.7#





#49

Dibromochloromethane

Concen: 0.152 ug/L

RT: 8.544 min Scan# 21

Delta R.T. -0.261 min

Lab File: VU057198.D

Acq: 22 Dec 2023 18:34

Instrument :

MSVOA_U

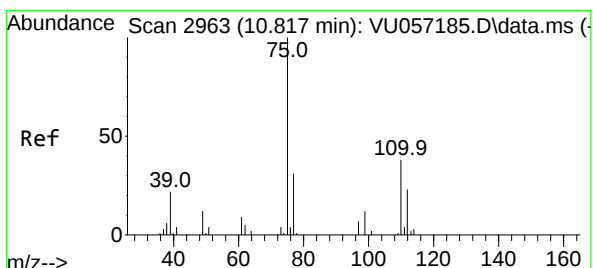
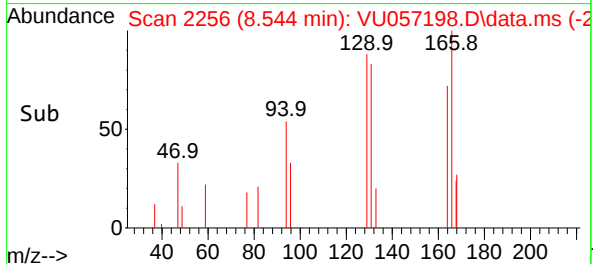
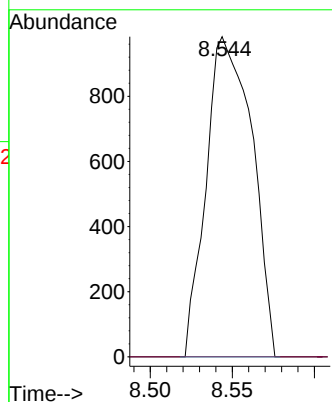
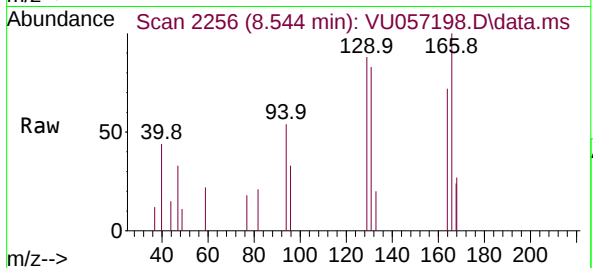
ClientSampleId :

Tgt Ion:129 Resp: 1912

Ion Ratio Lower Upper

129 100

127 0.0 55.2 102.6#



#61

1,2,3-Trichloropropane

Concen: 1.362 ug/L

RT: 11.807 min Scan# 3271

Delta R.T. 0.990 min

Lab File: VU057198.D

Acq: 22 Dec 2023 18:34

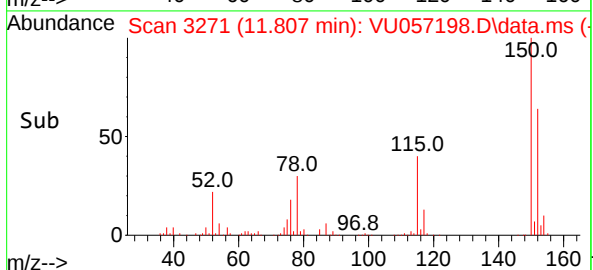
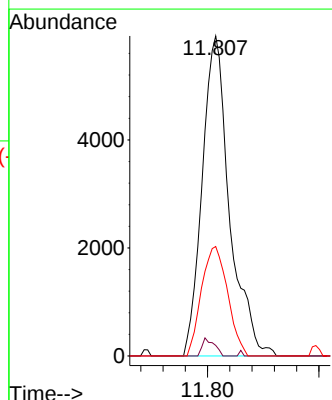
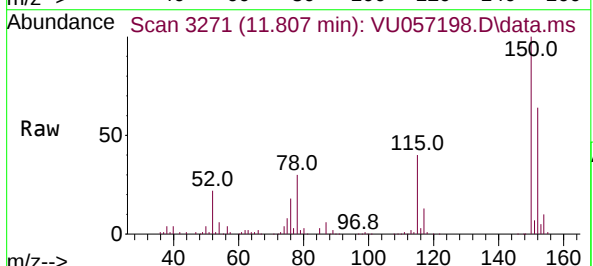
Tgt Ion: 75 Resp: 10104

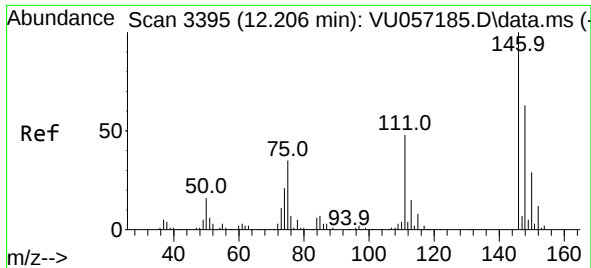
Ion Ratio Lower Upper

75 100

110 2.5 31.2 46.8#

77 32.7 25.5 38.3





#67

1,2-Dichlorobenzene

Concen: 0.241 ug/L

RT: 12.206 min Scan# 31

Delta R.T. -0.000 min

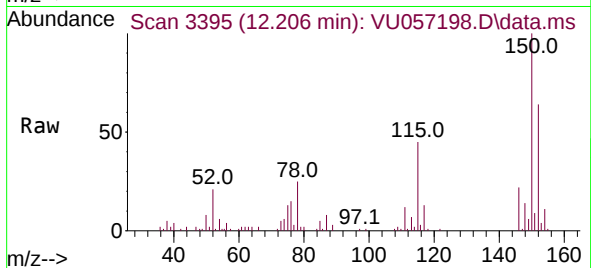
Lab File: VU057198.D

Acq: 22 Dec 2023 18:34

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:146 Resp: 5991

Ion Ratio Lower Upper

146 100

111 53.4 37.9 56.9

148 65.1 50.1 75.1

