

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU122123\
 Data File : VU057146.D
 Acq On : 21 Dec 2023 20:02
 Operator : MD/SY
 Sample : 05894-06
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 21 23:33:26 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR122123WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Dec 21 23:30:13 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.245	114	165688	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.412	117	163525	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.807	152	74633	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.596	65	73299	4.629	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	92.600%
7) Chloroethane-d5	1.911	69	62202	4.772	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	95.400%
11) 1,1-Dichloroethene-d2	2.563	65	31246	4.554	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	91.000%
20) 2-Butanone-d5	4.624	46	124549	50.091	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	100.180%
24) Chloroform-d	5.055	84	140038	4.579	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.600%
26) 1,2-Dichloroethane-d4	5.695	65	68669	4.711	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.200%
32) Benzene-d6	5.721	84	256353	4.571	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.400%
36) 1,2-Dichloropropane-d6	6.685	67	74997	4.699	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	94.000%
41) Toluene-d8	7.894	98	217182	4.241	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	84.800%
43) trans-1,3-Dichloroprop...	8.174	79	29191	4.394	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	87.800%
46) 2-Hexanone-d5	8.627	63	105373	46.581	ug/L	-0.03
Spiked Amount	50.000	Range	45 - 130	Recovery	=	93.160%
56) 1,1,2,2-Tetrachloroeth...	10.750	84	53100	4.675	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	93.600%
66) 1,2-Dichlorobenzene-d4	12.187	152	75860	4.724	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	94.400%
Target Compounds						Qvalue
3) Chloromethane	1.518	50	1781	0.131	ug/L	98
5) Vinyl chloride	1.602	62	9259	0.639	ug/L	84
8) Chloroethane	1.933	64	27735	3.016	ug/L	96
12) 1,1-Dichloroethene	2.573	96	2326	0.188	ug/L #	1
19) 1,1-Dichloroethane	3.859	63	302588	12.622	ug/L	98
22) cis-1,2-Dichloroethene	4.657	96	84888	6.381	ug/L	97
29) 1,1,1-Trichloroethane	5.309	97	208937	8.040	ug/L	99
31) Carbon tetrachloride	5.309	117	25469	1.114	ug/L	99
34) Trichloroethene	6.538	95	82431	5.438	ug/L	93
35) Methylcyclohexane	6.685	83	18453	0.925	ug/L #	21
37) 1,2-Dichloropropane	6.682	63	8739	0.678	ug/L #	91
47) Tetrachloroethene	8.550	164	2044	0.188	ug/L	86
48) 2-Hexanone	8.627	43	13142	3.186	ug/L #	75
49) Dibromochloromethane	8.547	129	2280	0.198	ug/L #	10
51) Chlorobenzene	9.444	112	10586	0.296	ug/L	98
61) 1,2,3-Trichloropropane	11.807	75	9909	1.425	ug/L #	64
65) 1,4-Dichlorobenzene	11.833	146	4962	0.190	ug/L #	86
67) 1,2-Dichlorobenzene	12.206	146	9960	0.428	ug/L	92

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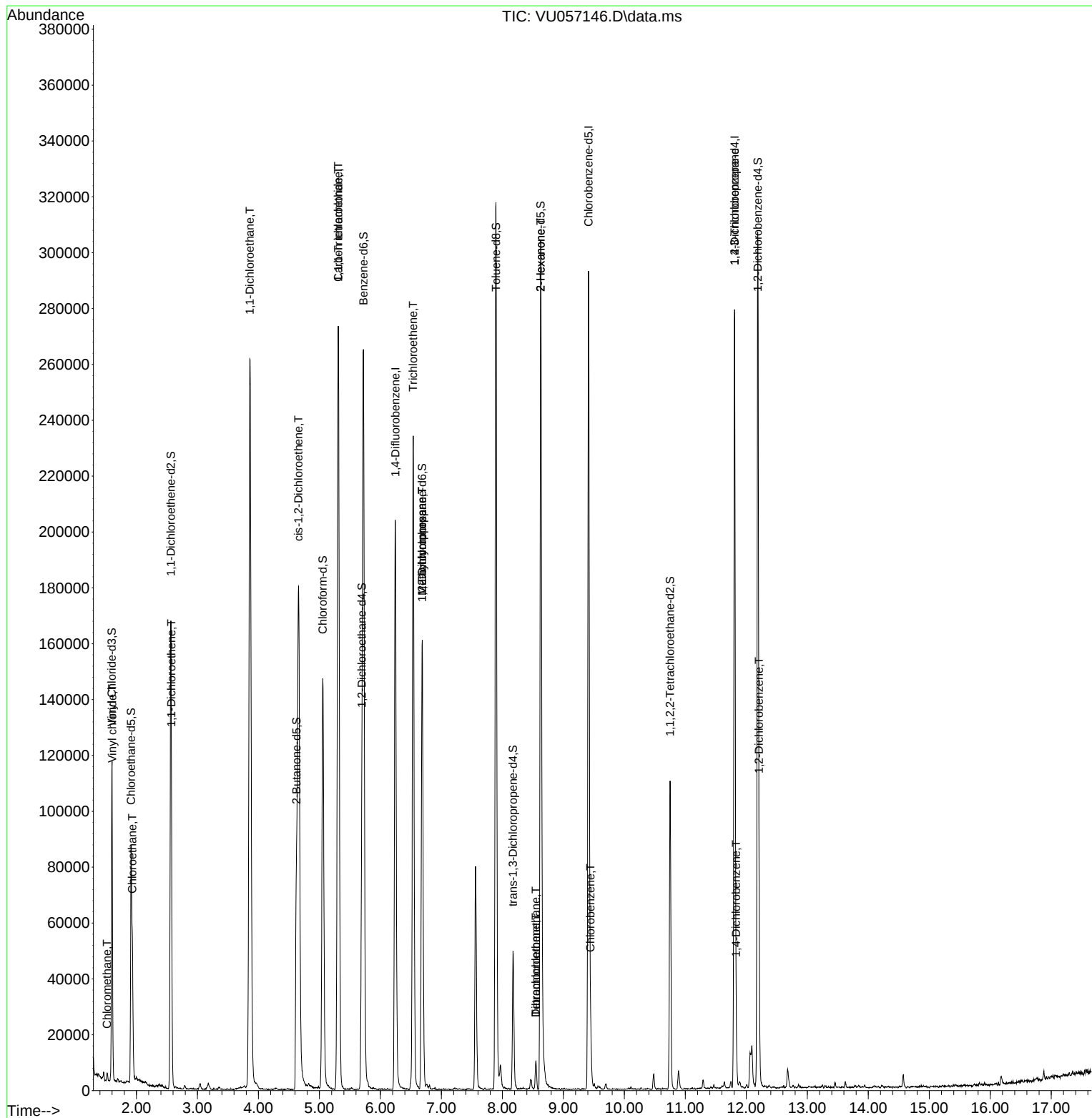
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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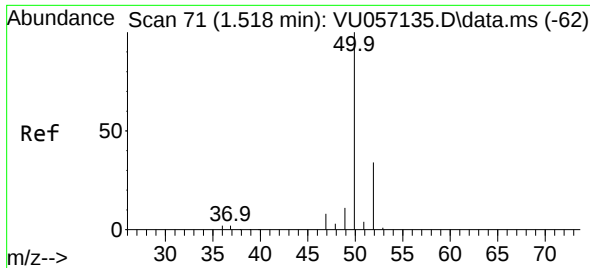
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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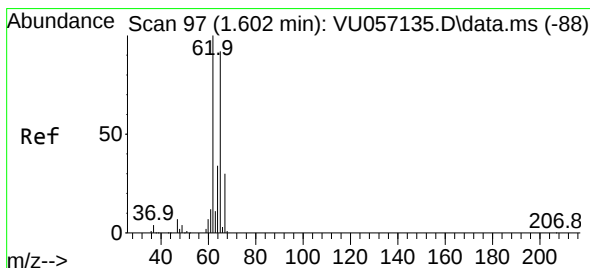
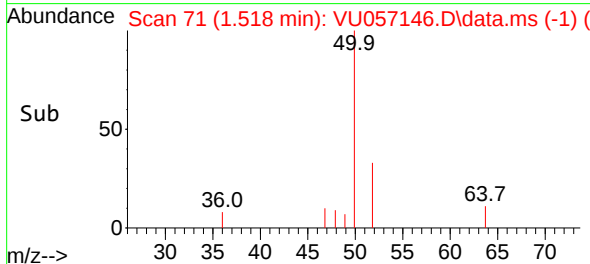
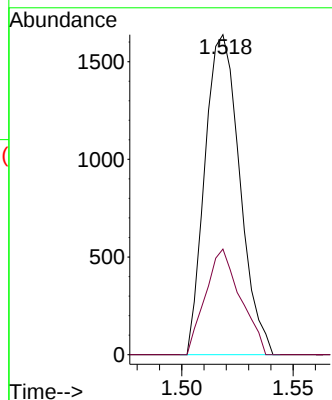
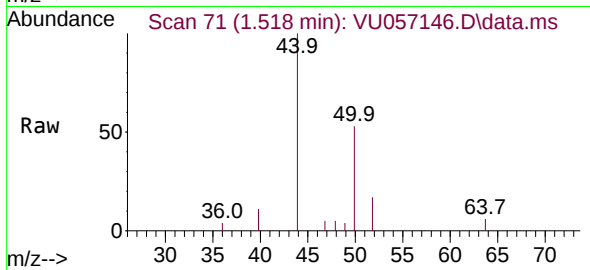




#3
Chloromethane
Concen: 0.131 ug/L
RT: 1.518 min Scan# 71
Delta R.T. 0.000 min
Lab File: VU057146.D
Acq: 21 Dec 2023 20:02

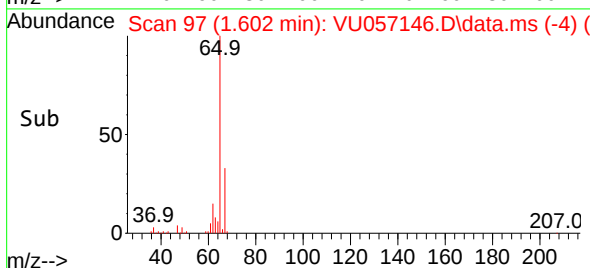
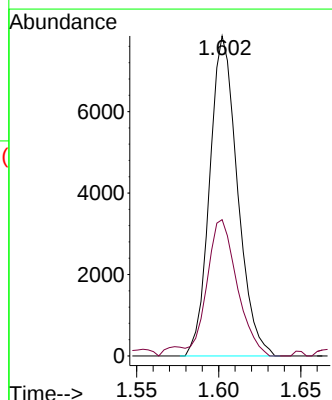
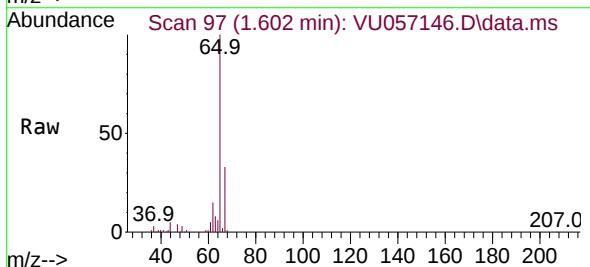
Instrument :
MSVOA_U
ClientSampleId :

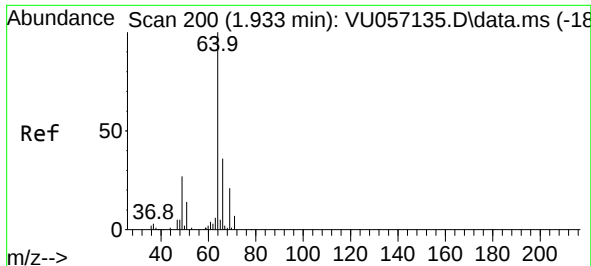
Tgt Ion: 50 Resp: 1781
Ion Ratio Lower Upper
50 100
52 33.0 23.7 44.1



#5
Vinyl chloride
Concen: 0.639 ug/L
RT: 1.602 min Scan# 97
Delta R.T. 0.000 min
Lab File: VU057146.D
Acq: 21 Dec 2023 20:02

Tgt Ion: 62 Resp: 9259
Ion Ratio Lower Upper
62 100
64 42.6 23.3 43.3

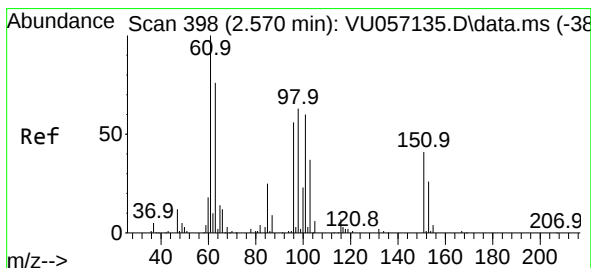
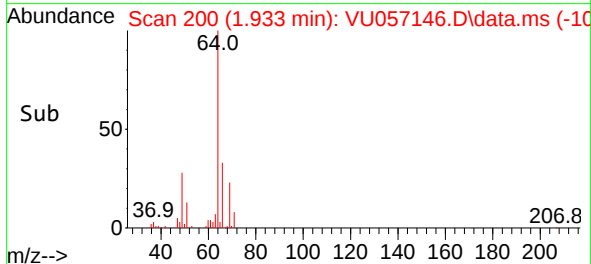
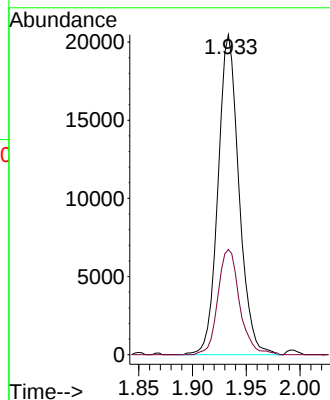
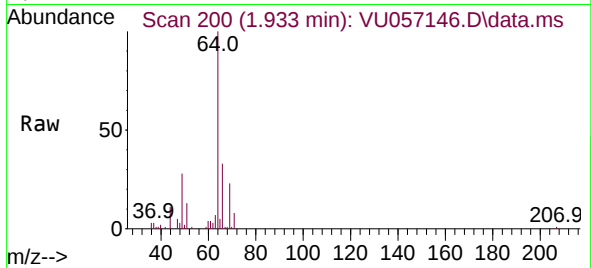




#8
Chloroethane
Concen: 3.016 ug/L
RT: 1.933 min Scan# 200
Delta R.T. 0.000 min
Lab File: VU057146.D
Acq: 21 Dec 2023 20:02

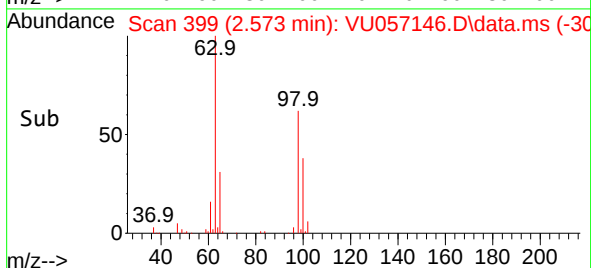
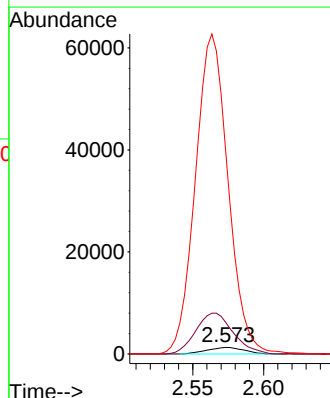
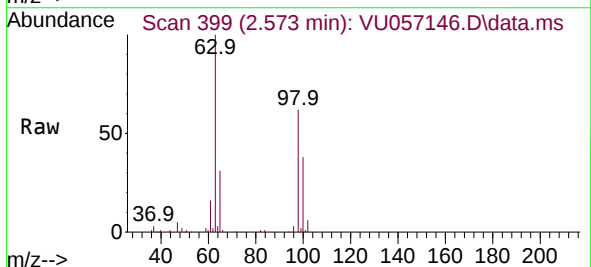
Instrument :
MSVOA_U
ClientSampleId :

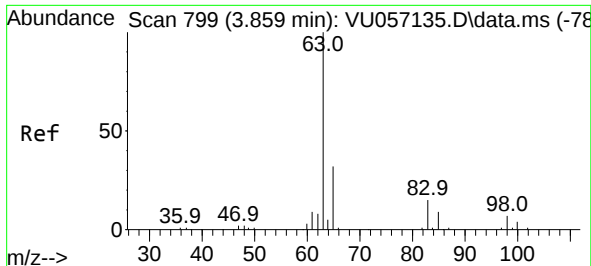
Tgt Ion: 64 Resp: 27735
Ion Ratio Lower Upper
64 100
66 32.8 21.6 40.2



#12
1,1-Dichloroethene
Concen: 0.188 ug/L
RT: 2.573 min Scan# 399
Delta R.T. 0.003 min
Lab File: VU057146.D
Acq: 21 Dec 2023 20:02

Tgt Ion: 96 Resp: 2326
Ion Ratio Lower Upper
96 100
61 483.8 119.6 222.0#
63 3111.5 96.2 178.8#





#19

1,1-Dichloroethane

Concen: 12.622 ug/L

RT: 3.859 min Scan# 799

Delta R.T. 0.000 min

Lab File: VU057146.D

Acq: 21 Dec 2023 20:02

Instrument :

MSVOA_U

ClientSampleId :

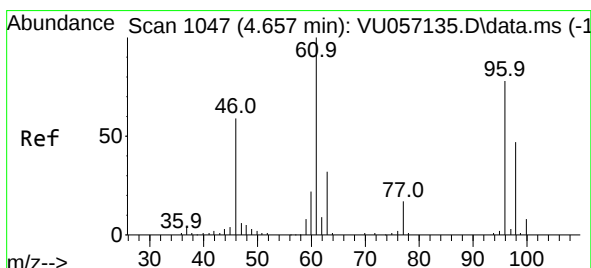
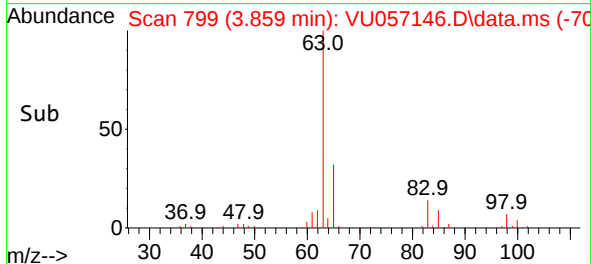
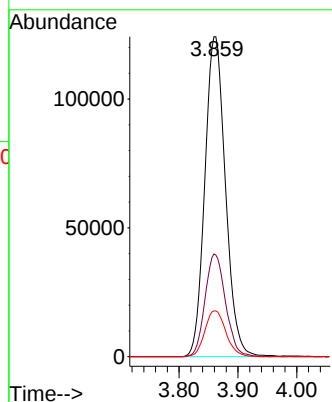
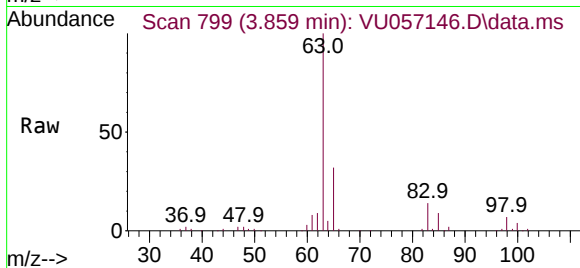
Tgt Ion: 63 Resp: 302588

Ion Ratio Lower Upper

63 100

65 32.1 21.6 40.2

83 14.3 10.2 19.0



#22

cis-1,2-Dichloroethene

Concen: 6.381 ug/L

RT: 4.657 min Scan# 1047

Delta R.T. 0.000 min

Lab File: VU057146.D

Acq: 21 Dec 2023 20:02

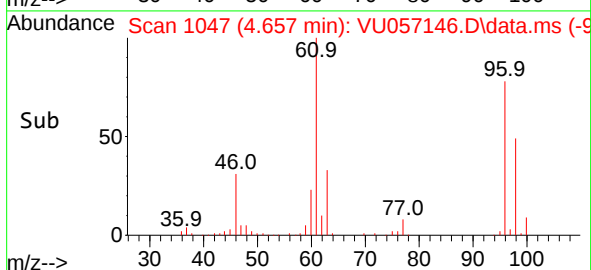
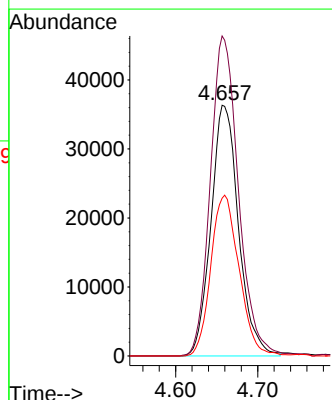
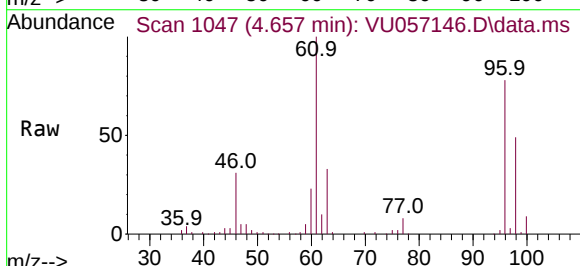
Tgt Ion: 96 Resp: 84888

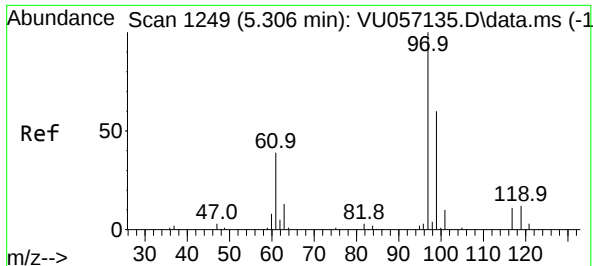
Ion Ratio Lower Upper

96 100

61 127.7 86.8 161.2

98 62.9 45.5 84.5





#29

1,1,1-Trichloroethane

Concen: 8.040 ug/L

RT: 5.309 min Scan# 1250

Delta R.T. 0.003 min

Lab File: VU057146.D

Acq: 21 Dec 2023 20:02

Instrument :

MSVOA_U

ClientSampleId :

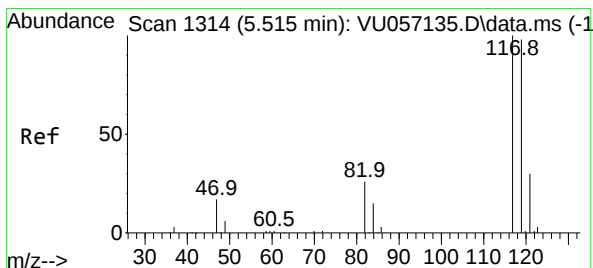
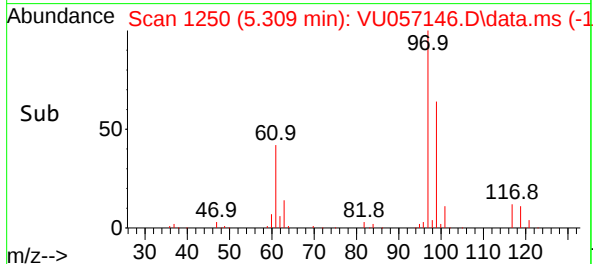
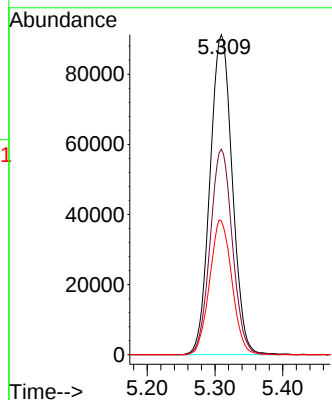
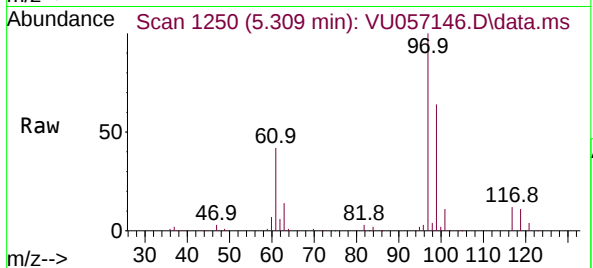
Tgt Ion: 97 Resp: 208937

Ion Ratio Lower Upper

97 100

99 64.3 51.2 76.8

61 42.0 32.5 48.7



#31

Carbon tetrachloride

Concen: 1.114 ug/L

RT: 5.309 min Scan# 1250

Delta R.T. -0.206 min

Lab File: VU057146.D

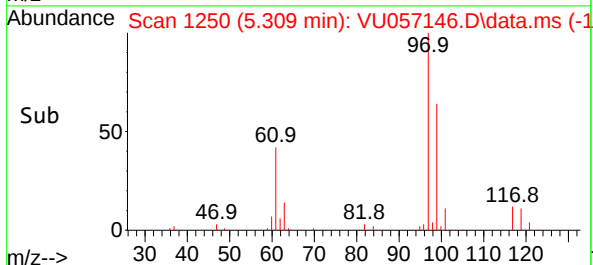
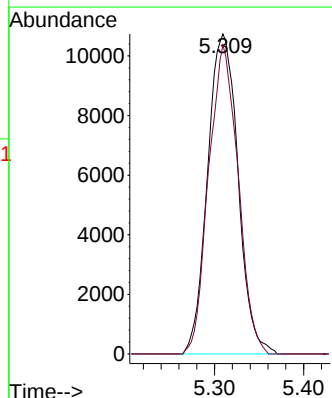
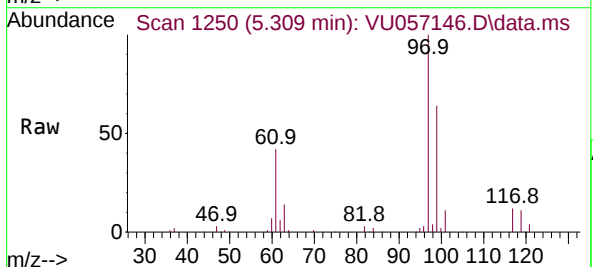
Acq: 21 Dec 2023 20:02

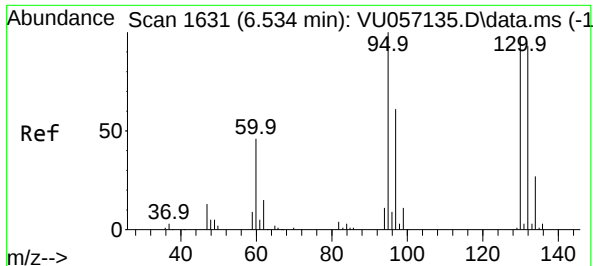
Tgt Ion:117 Resp: 25469

Ion Ratio Lower Upper

117 100

119 93.3 75.1 112.7

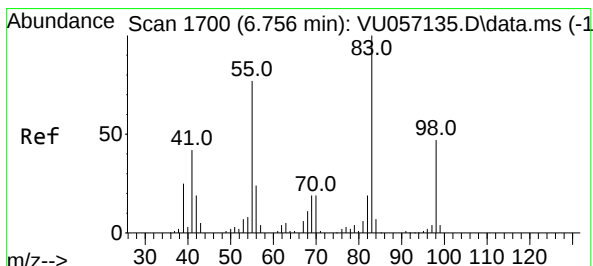
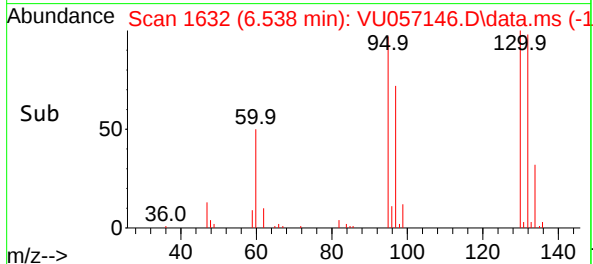
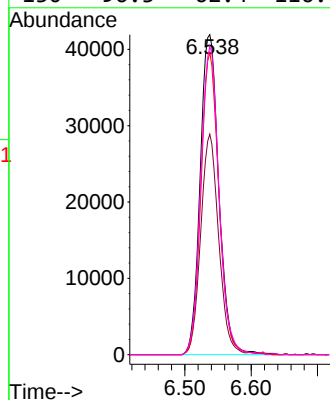
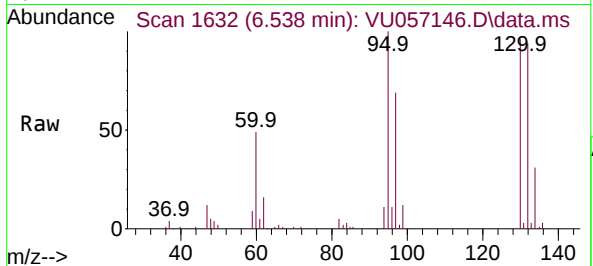




#34
Trichloroethene
Concen: 5.438 ug/L
RT: 6.538 min Scan# 1632
Delta R.T. 0.003 min
Lab File: VU057146.D
Acq: 21 Dec 2023 20:02

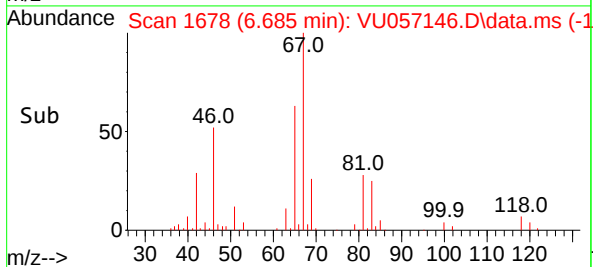
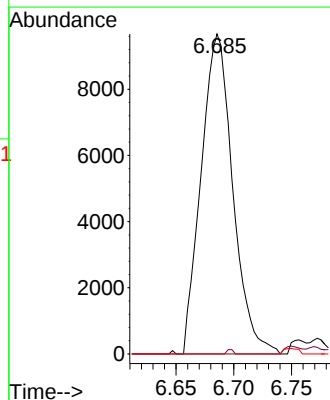
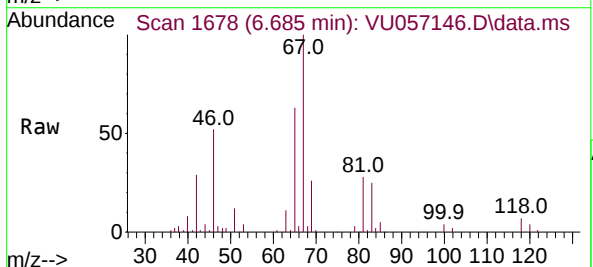
Instrument :
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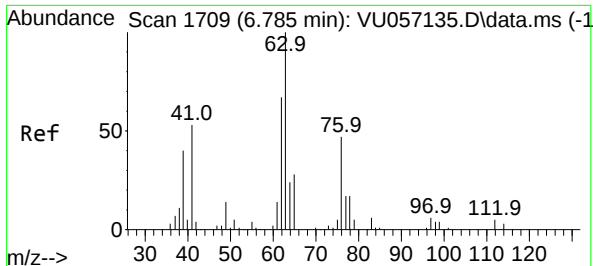
Tgt Ion: 95 Resp: 82431
Ion Ratio Lower Upper
95 100
97 68.9 44.3 82.3
132 94.5 62.6 116.2
130 96.3 62.4 116.0



#35
Methylcyclohexane
Concen: 0.925 ug/L
RT: 6.685 min Scan# 1678
Delta R.T. -0.071 min
Lab File: VU057146.D
Acq: 21 Dec 2023 20:02

Tgt Ion: 83 Resp: 18453
Ion Ratio Lower Upper
83 100
55 0.3 61.3 91.9#
98 4.5 36.6 55.0#





#37

1,2-Dichloropropane

Concen: 0.678 ug/L

RT: 6.682 min Scan# 1

Delta R.T. -0.103 min

Lab File: VU057146.D

Acq: 21 Dec 2023 20:02

Instrument :

MSVOA_U

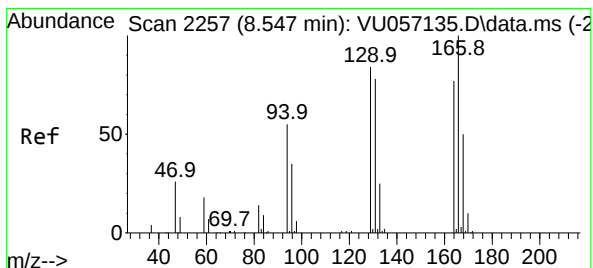
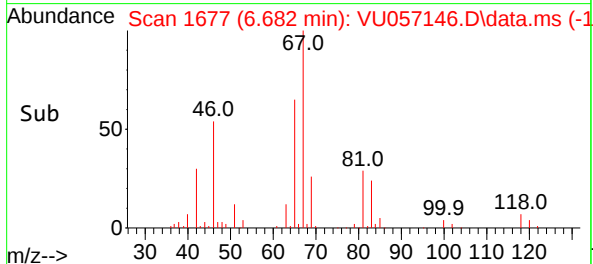
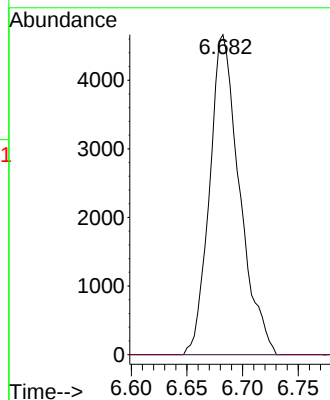
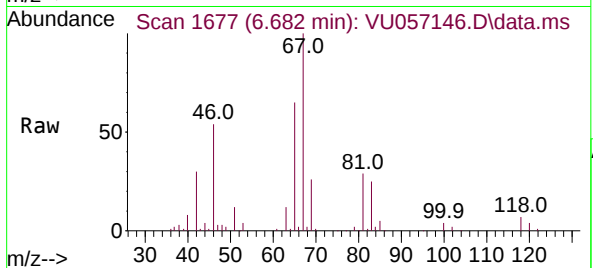
ClientSampleId :

Tgt Ion: 63 Resp: 8739

Ion Ratio Lower Upper

63 100

112 1.0 3.1 4.7#



#47

Tetrachloroethene

Concen: 0.188 ug/L

RT: 8.550 min Scan# 2258

Delta R.T. 0.003 min

Lab File: VU057146.D

Acq: 21 Dec 2023 20:02

Tgt Ion:164 Resp: 2044

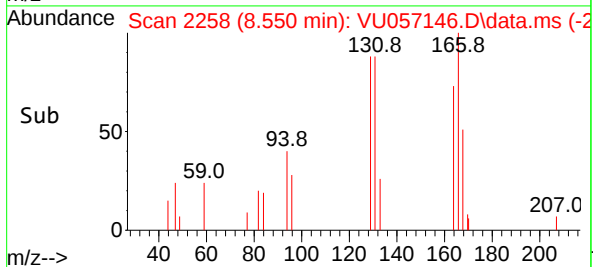
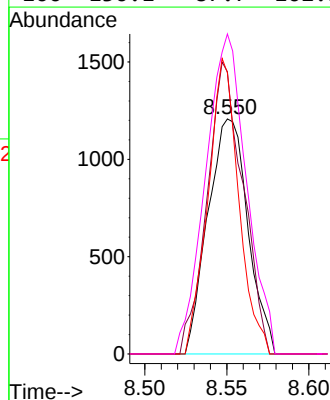
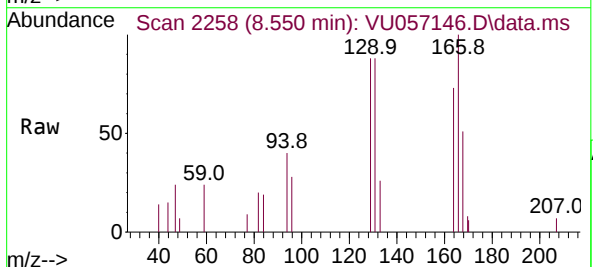
Ion Ratio Lower Upper

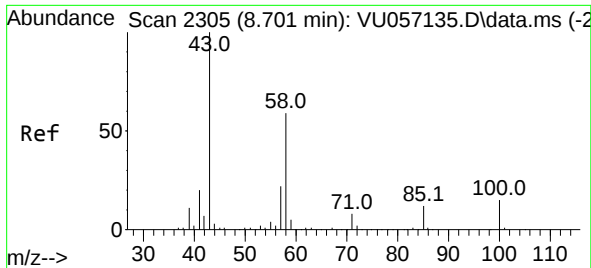
164 100

129 120.0 72.9 135.3

131 119.5 71.7 133.3

166 136.1 87.7 162.9

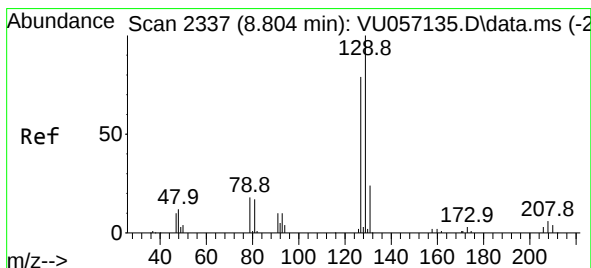
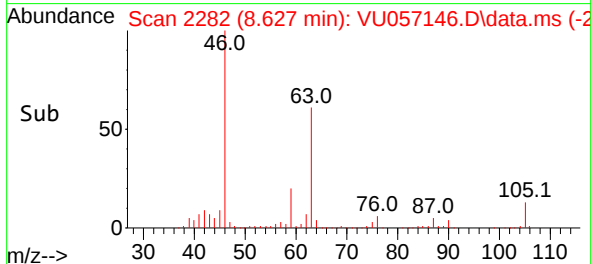
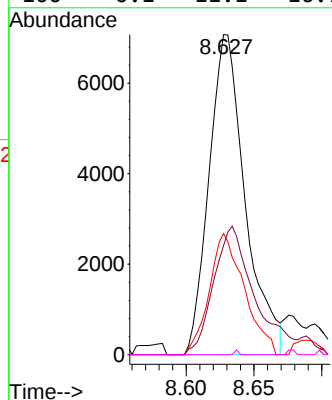
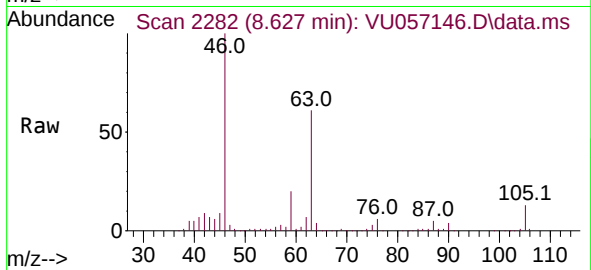




#48
2-Hexanone
Concen: 3.186 ug/L
RT: 8.627 min Scan# 21
Delta R.T. -0.074 min
Lab File: VU057146.D
Acq: 21 Dec 2023 20:02

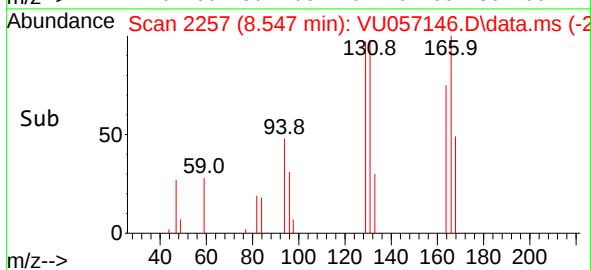
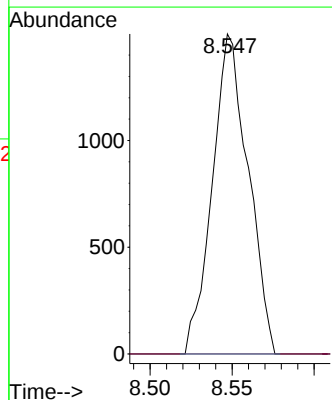
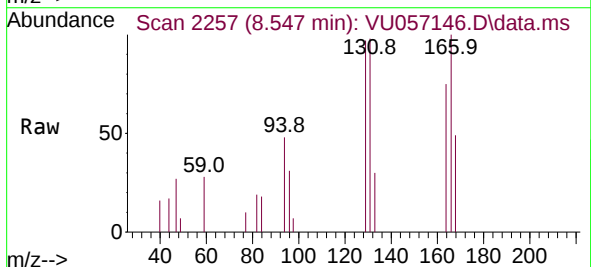
Instrument :
MSVOA_U
ClientSampleId :

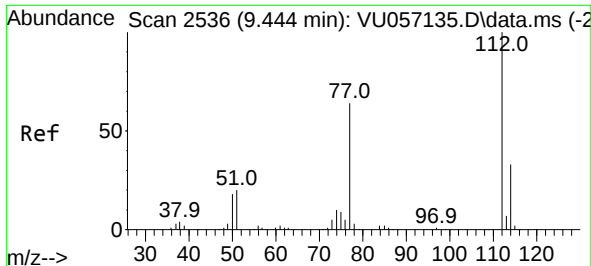
Tgt Ion: 43	Resp: 13142
Ion Ratio	Lower Upper
43 100	
58 45.4	49.8 74.8#
57 36.7	18.5 27.7#
100 0.1	11.1 16.7#



#49
Dibromochloromethane
Concen: 0.198 ug/L
RT: 8.547 min Scan# 2257
Delta R.T. -0.257 min
Lab File: VU057146.D
Acq: 21 Dec 2023 20:02

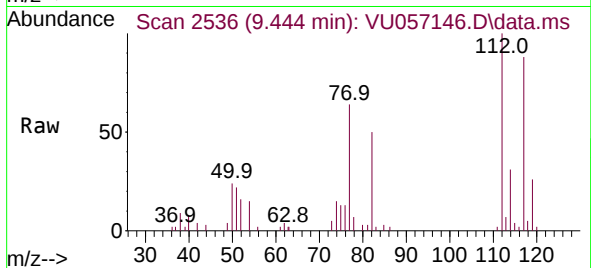
Tgt Ion:129	Resp:	2280	
Ion	Ratio	Lower	Upper
129	100		
127	0.0	55.2	102.6#



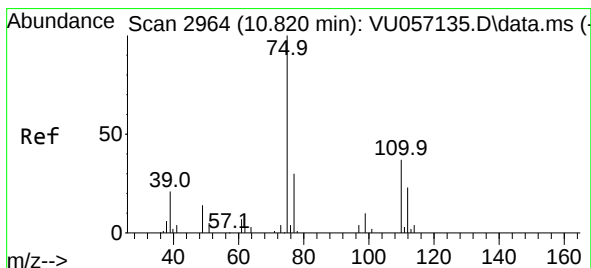
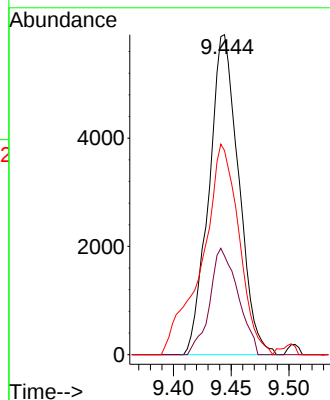
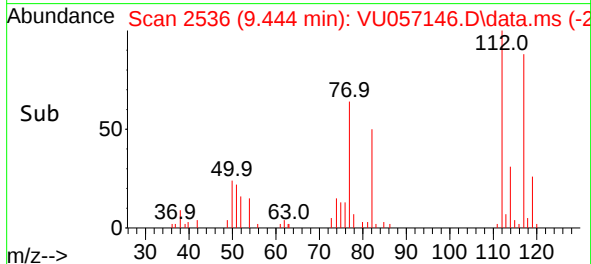


#51
Chlorobenzene
Concen: 0.296 ug/L
RT: 9.444 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU057146.D
Acq: 21 Dec 2023 20:02

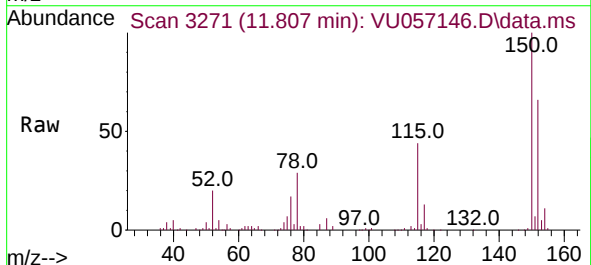
Instrument :
MSVOA_U
ClientSampleId :



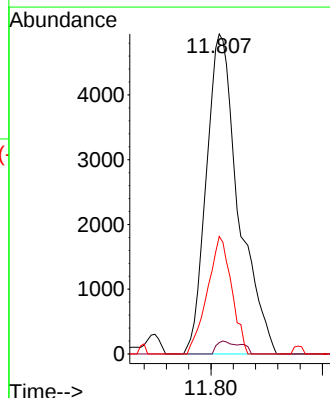
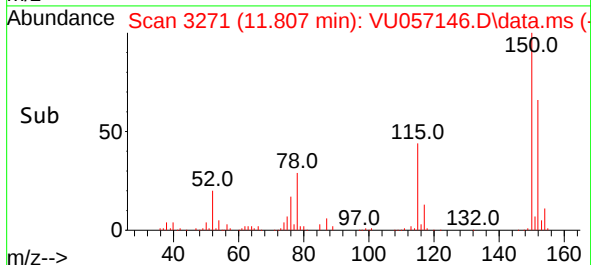
Tgt Ion:112 Resp: 10586
Ion Ratio Lower Upper
112 100
114 30.9 22.7 42.1
77 63.7 52.2 78.2

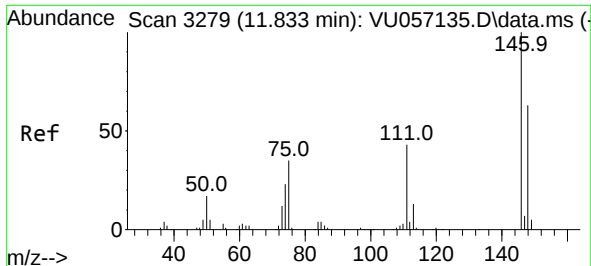


#61
1,2,3-Trichloropropane
Concen: 1.425 ug/L
RT: 11.807 min Scan# 3271
Delta R.T. 0.987 min
Lab File: VU057146.D
Acq: 21 Dec 2023 20:02



Tgt Ion: 75 Resp: 9909
Ion Ratio Lower Upper
75 100
110 3.0 31.2 46.8#
77 27.6 25.5 38.3

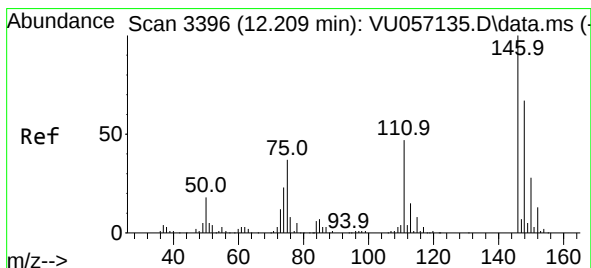
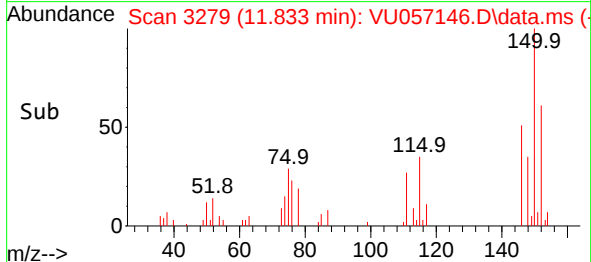
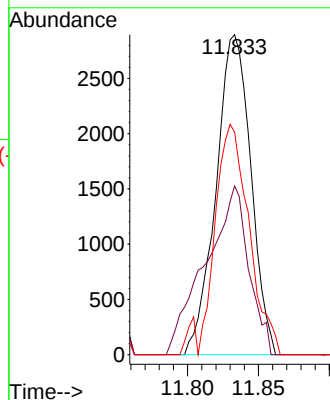
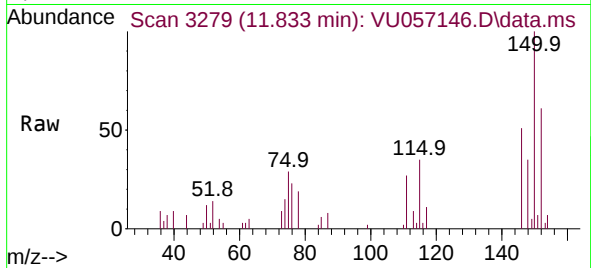




#65
1,4-Dichlorobenzene
Concen: 0.190 ug/L
RT: 11.833 min Scan# 31
Delta R.T. 0.000 min
Lab File: VU057146.D
Acq: 21 Dec 2023 20:02

Instrument :
MSVOA_U
ClientSampleId :

Tgt Ion:146 Resp: 4962
Ion Ratio Lower Upper
146 100
111 52.7 28.1 52.3#
148 69.5 43.0 79.8



#67
1,2-Dichlorobenzene
Concen: 0.428 ug/L
RT: 12.206 min Scan# 3395
Delta R.T. -0.003 min
Lab File: VU057146.D
Acq: 21 Dec 2023 20:02

Tgt Ion:146 Resp: 9960
Ion Ratio Lower Upper
146 100
111 51.6 37.9 56.9
148 69.2 50.1 75.1

