

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092424\
 Data File : VW030216.D
 Acq On : 24 Sep 2024 11:40
 Operator : SY/MD
 Sample : P4109-12DL 2X
 Misc : 5.00g/10mL/MSVOA_W/SOIL/A
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 A4E63DL

Quant Time: Sep 25 01:19:00 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM091624SMA.M
 Quant Title : SFAM01.0
 QLast Update : Wed Sep 25 01:17:29 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.843	114	299118	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.629	117	276602	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.550	152	135009	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.363	65	97037	25.121	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	100.480%
7) Chloroethane-d5	2.899	69	80507	29.521	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	118.080%
11) 1,1-Dichloroethene-d2	4.021	65	40045	20.748	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	83.000%
21) 2-Butanone-d5	7.081	46	40401	43.194	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	86.380%
24) Chloroform-d	7.648	84	196721	23.919	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	95.680%
26) 1,2-Dichloroethane-d4	8.307	65	95203	23.051	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	92.200%
32) Benzene-d6	8.276	84	357320	22.424	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	89.680%
36) 1,2-Dichloropropane-d6	9.276	67	105606	21.465	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	85.880%
41) Toluene-d8	10.325	98	330426	23.139	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	92.560%
43) trans-1,3-Dichloroprop...	10.575	79	42913	21.771	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	87.080%
47) 2-Hexanone-d5	10.922	63	33196	44.094	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	88.180%
56) 1,1,2,2-Tetrachloroeth...	12.690	84	78800	21.513	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	86.040%
66) 1,2-Dichlorobenzene-d4	13.848	152	108922	23.766	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	95.080%
Target Compounds	Qvalue					
12) 1,1-Dichloroethene	4.045	96	78989	22.122	ug/L	100
13) Acetone	4.137	43	27894	25.994	ug/L	98
16) Methylene chloride	4.923	84	163722	37.119	ug/L	97
17) trans-1,2-Dichloroethene	5.435	96	61038	15.507	ug/L	94
18) Methyl tert-butyl Ether	5.429	73	118613	19.121	ug/L	98
19) 1,1-Dichloroethane	6.222	63	323218	40.440	ug/L	99
22) 2-Butanone	7.173	43	101829	80.163	ug/L	99
25) Chloroform	7.679	83	347977	42.866	ug/L	98
31) Carbon tetrachloride	8.069	117	47838	7.869	ug/L	98
33) Benzene	8.325	78	534122	31.584	ug/L	100
34) Trichloroethene	9.093	95	212110	46.463	ug/L	99
37) 1,2-Dichloropropane	9.368	63	73576	16.052	ug/L	99
39) cis-1,3-Dichloropropene	10.075	75	194506	29.007	ug/L	99
40) 4-Methyl-2-pentanone	10.209	43	132087	56.397	ug/L	98
44) trans-1,3-Dichloropropene	10.605	75	178017	31.559	ug/L	97
45) 1,1,2-Trichloroethane	10.782	97	71224	21.355	ug/L	95
50) 1,2-Dibromoethane	11.233	107	61021	19.842	ug/L	# 96
53) m,p-Xylene	11.837	106	180455	23.810	ug/L	86
54) o-Xylene	12.160	106	223875	31.391	ug/L	100

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Quant Title : SFAM01.0
QLast Update : Wed Sep 25 01:17:29 2024
Response via : Initial Calibration

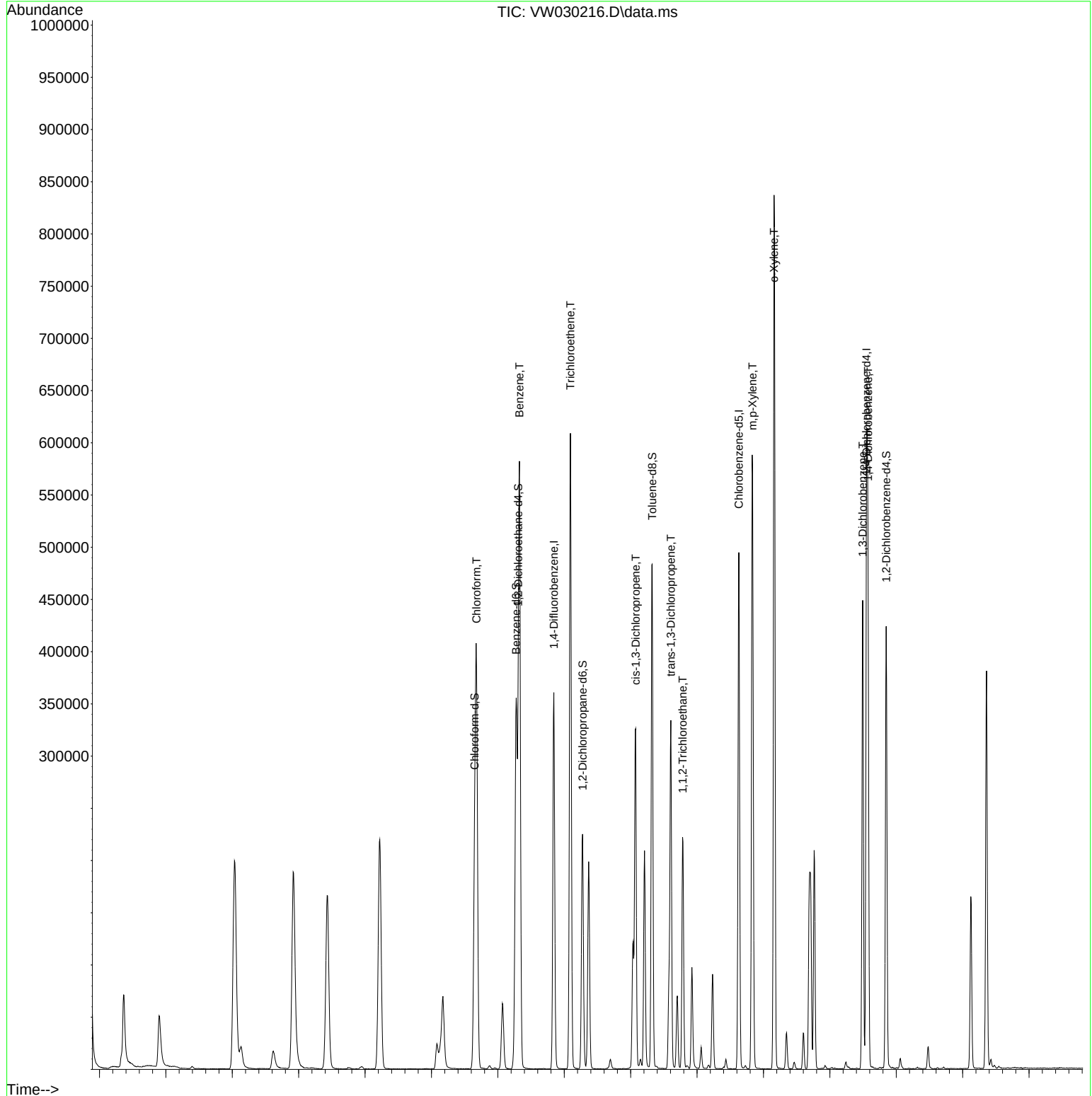
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) 1,1,2,2-Tetrachloroethane	12.715	83	77348	19.429	ug/L	99
59) Bromoform	12.349	173	15814	7.401	ug/L	99
61) 1,2,3-Trichloropropane	12.763	75	87163	31.033	ug/L	96
64) 1,3-Dichlorobenzene	13.495	146	175014	19.866	ug/L	90
65) 1,4-Dichlorobenzene	13.574	146	175849	19.321	ug/L	97
68) 1,2-Dibromo-3-chloropr...	14.476	75	5384	8.790	ug/L #	85
70) 1,2,4-trichlorobenzene	15.123	180	52815	10.603	ug/L	95

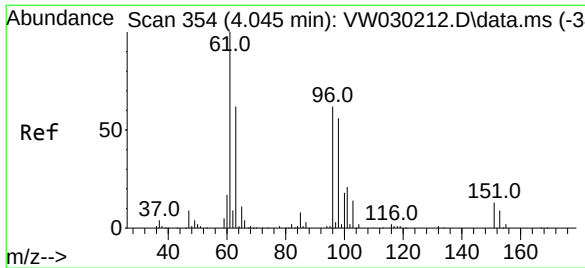
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SFAM01.0
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#12

1,1-Dichloroethene

Concen: 22.122 ug/L

RT: 4.045 min Scan# 354

Delta R.T. 0.000 min

Lab File: VW030216.D

Acq: 24 Sep 2024 11:40

Instrument :

MSVOA_W

ClientSampleId :

A4E63DL

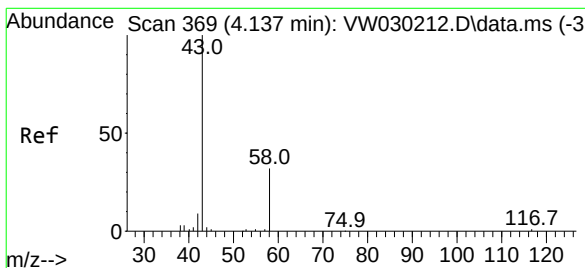
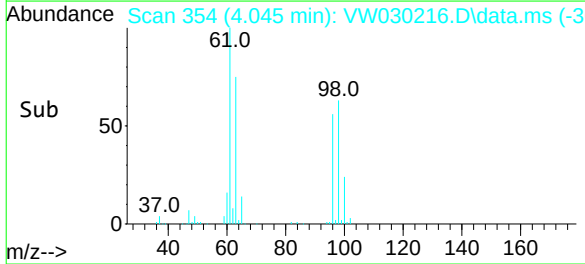
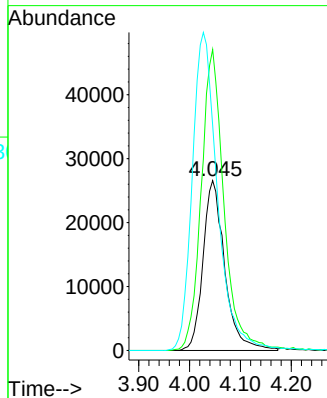
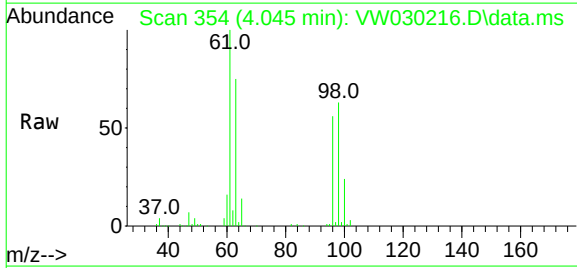
Tgt Ion: 96 Resp: 78989

Ion Ratio Lower Upper

96 100

61 177.2 124.0 230.4

63 132.6 93.3 173.3



#13

Acetone

Concen: 25.994 ug/L

RT: 4.137 min Scan# 369

Delta R.T. 0.000 min

Lab File: VW030216.D

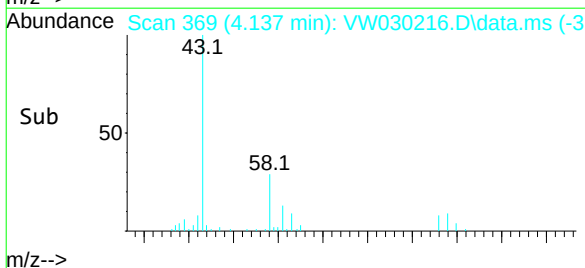
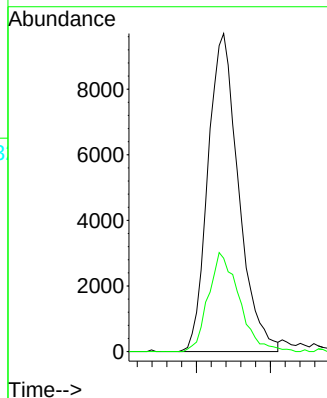
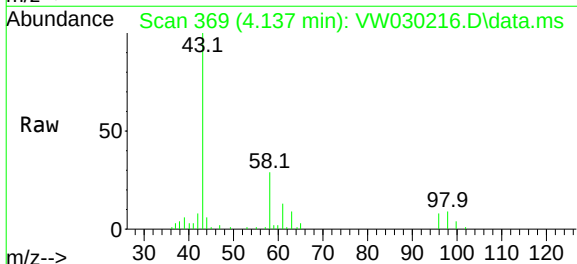
Acq: 24 Sep 2024 11:40

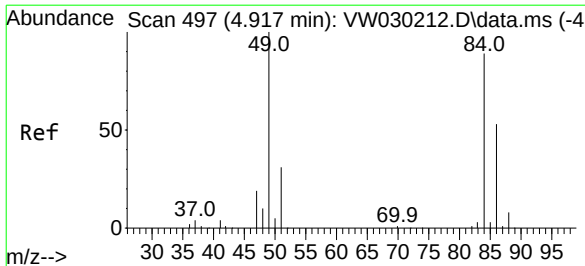
Tgt Ion: 43 Resp: 27894

Ion Ratio Lower Upper

43 100

58 31.4 0.0 65.0

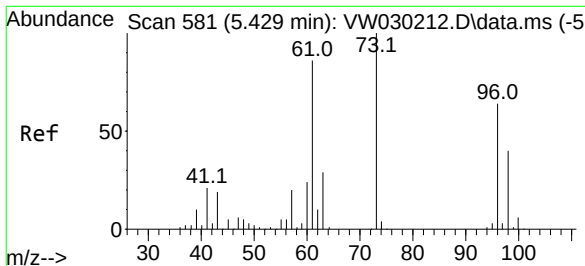
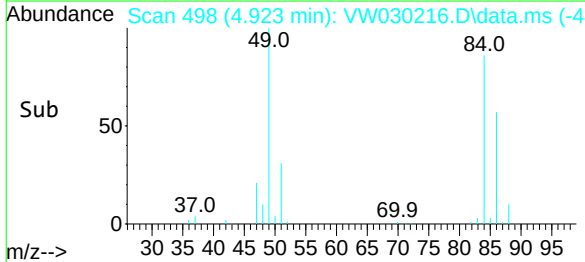
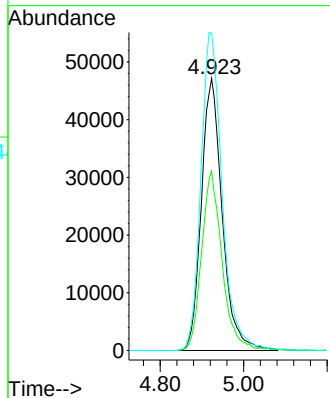
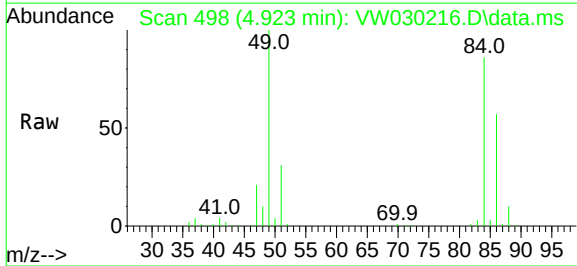




#16
Methylene chloride
Concen: 37.119 ug/L
RT: 4.923 min Scan# 49
Delta R.T. 0.006 min
Lab File: VW030216.D
Acq: 24 Sep 2024 11:40

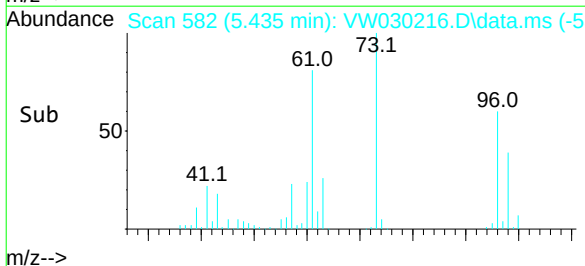
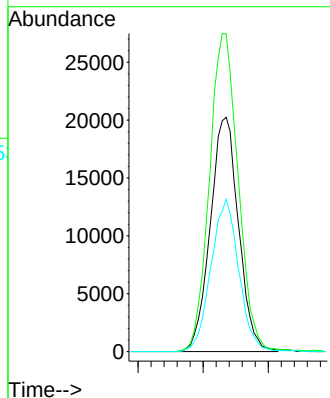
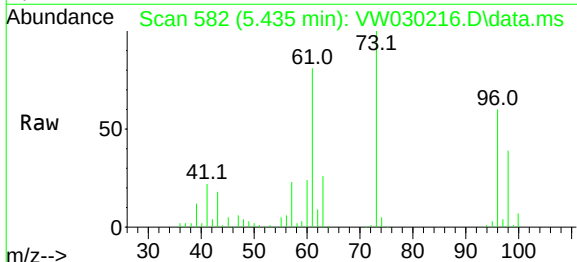
Instrument :
MSVOA_W
ClientSampleId :
A4E63DL

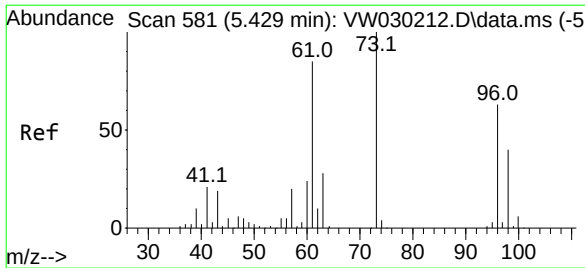
Tgt Ion:	84	Resp:	163722
Ion	Ratio	Lower	Upper
84	100		
86	66.0	44.6	82.8
49	116.6	83.8	155.6



#17
trans-1,2-Dichloroethene
Concen: 15.507 ug/L
RT: 5.435 min Scan# 582
Delta R.T. 0.006 min
Lab File: VW030216.D
Acq: 24 Sep 2024 11:40

Tgt Ion:	96	Resp:	61038
Ion	Ratio	Lower	Upper
96	100		
61	135.7	100.8	187.2
98	65.1	43.0	80.0

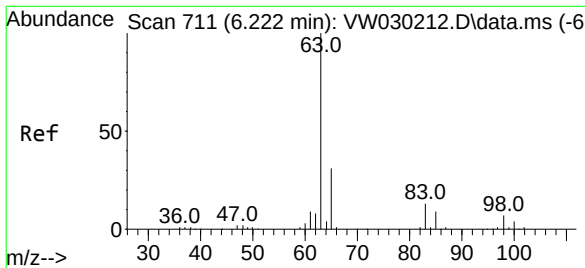
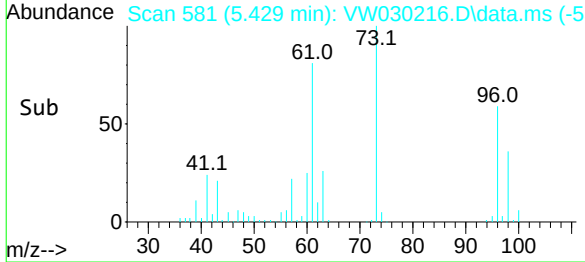
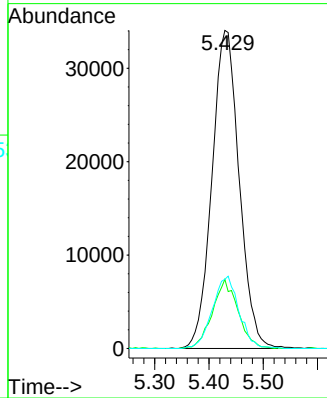
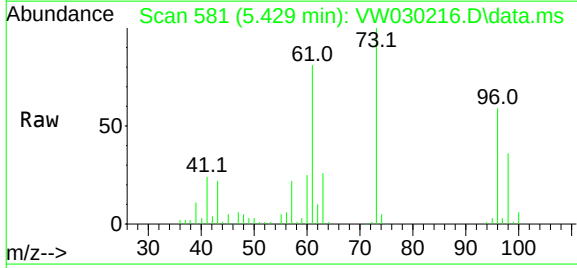




#18
Methyl tert-butyl Ether
Concen: 19.121 ug/L
RT: 5.429 min Scan# 581
Delta R.T. 0.000 min
Lab File: VW030216.D
Acq: 24 Sep 2024 11:40

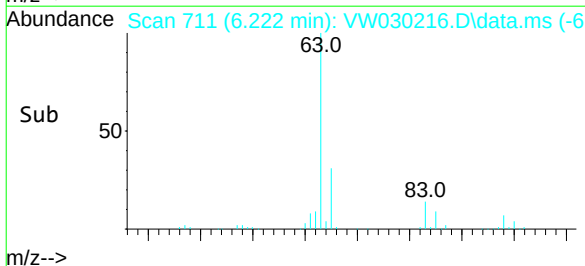
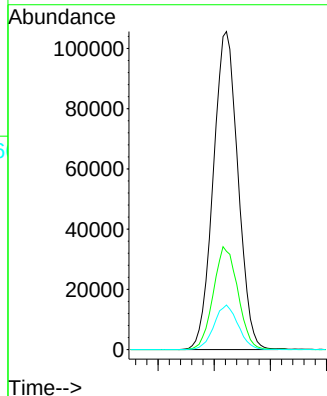
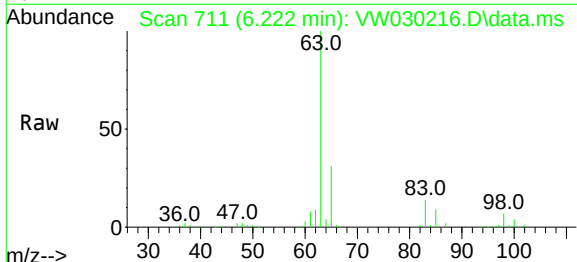
Instrument :
MSVOA_W
ClientSampleId :
A4E63DL

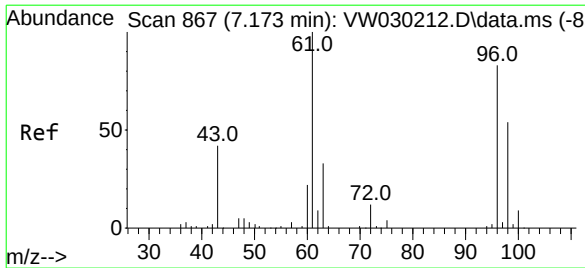
Tgt Ion:	73	Resp:	118613
Ion	Ratio	Lower	Upper
73	100		
43	20.4	15.7	23.5
57	22.0	18.8	28.2



#19
1,1-Dichloroethane
Concen: 40.440 ug/L
RT: 6.222 min Scan# 711
Delta R.T. 0.000 min
Lab File: VW030216.D
Acq: 24 Sep 2024 11:40

Tgt Ion:	63	Resp:	323218
Ion	Ratio	Lower	Upper
63	100		
65	30.9	21.6	40.0
83	14.0	9.0	16.8

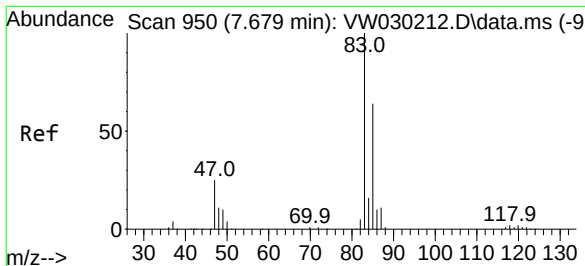
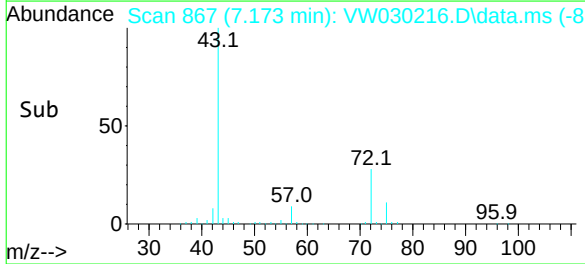
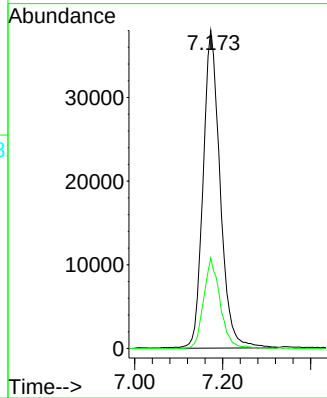
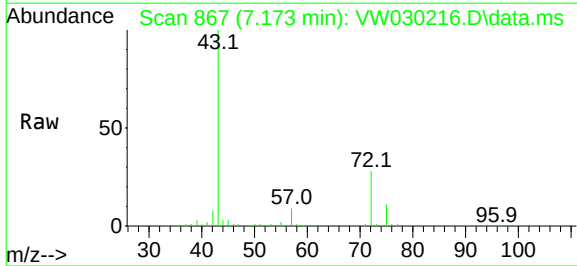




#22
2-Butanone
Concen: 80.163 ug/L
RT: 7.173 min Scan# 867
Delta R.T. 0.000 min
Lab File: VW030216.D
Acq: 24 Sep 2024 11:40

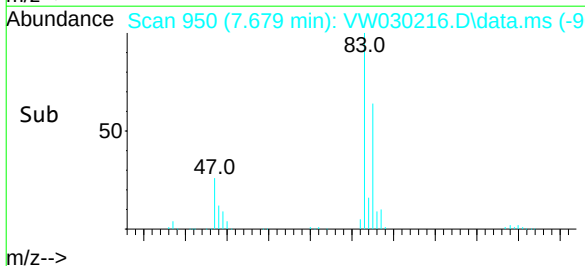
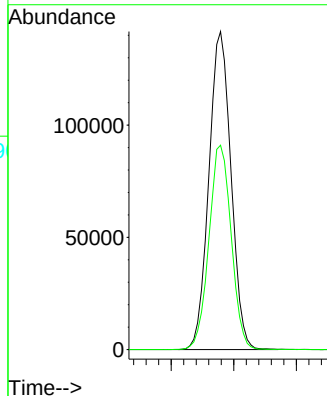
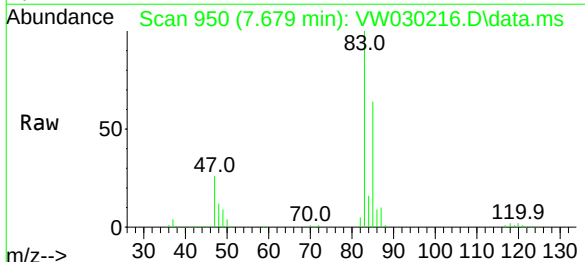
Instrument :
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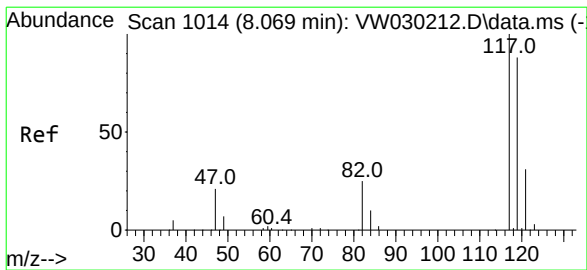
Tgt Ion: 43 Resp: 101829
Ion Ratio Lower Upper
43 100
72 27.3 13.9 41.7



#25
Chloroform
Concen: 42.866 ug/L
RT: 7.679 min Scan# 950
Delta R.T. 0.000 min
Lab File: VW030216.D
Acq: 24 Sep 2024 11:40

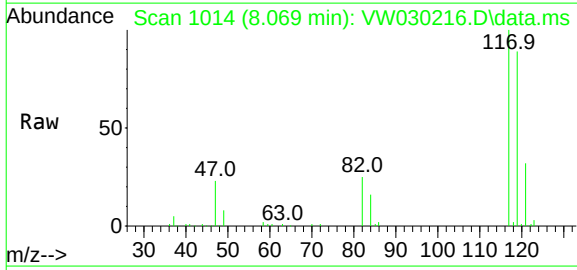
Tgt Ion: 83 Resp: 347977
Ion Ratio Lower Upper
83 100
85 64.3 46.1 85.5



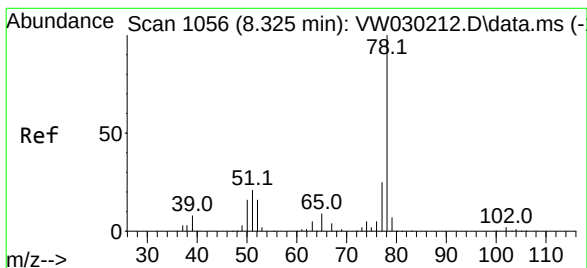
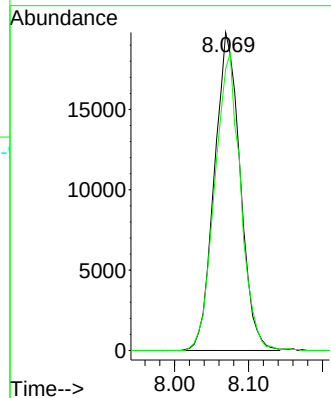
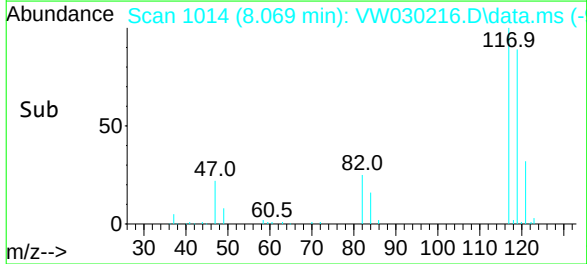


#31
Carbon tetrachloride
Concen: 7.869 ug/L
RT: 8.069 min Scan# 1014
Delta R.T. 0.000 min
Lab File: VW030216.D
Acq: 24 Sep 2024 11:40

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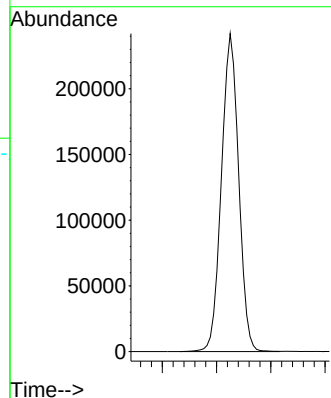
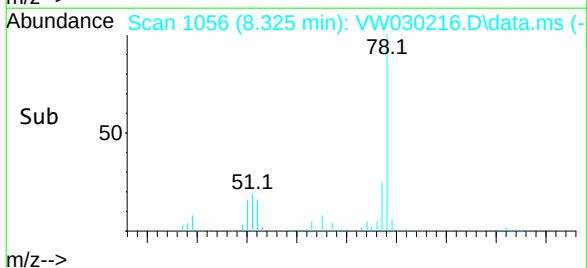
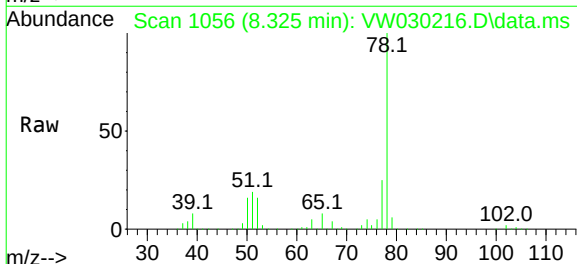


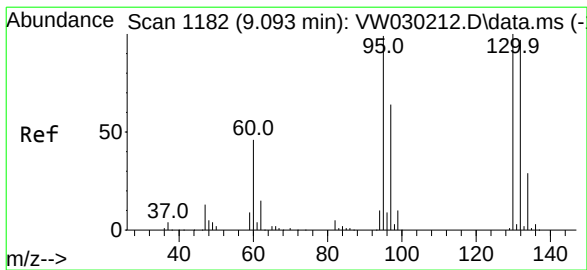
Tgt Ion:117 Resp: 47838
Ion Ratio Lower Upper
117 100
119 93.7 76.2 114.4



#33
Benzene
Concen: 31.584 ug/L
RT: 8.325 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VW030216.D
Acq: 24 Sep 2024 11:40

Tgt Ion: 78 Resp: 534122





#34

Trichloroethene

Concen: 46.463 ug/L

RT: 9.093 min Scan# 1182

Delta R.T. 0.000 min

Lab File: VW030216.D

Acq: 24 Sep 2024 11:40

Instrument :

MSVOA_W

ClientSampleId :

A4E63DL

Tgt Ion: 95 Resp: 212110

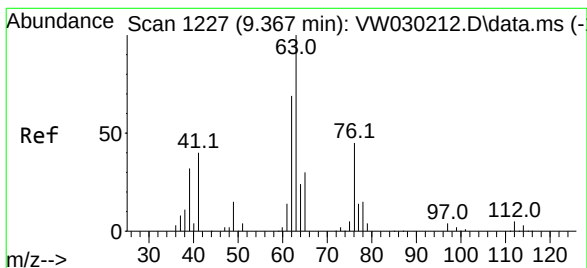
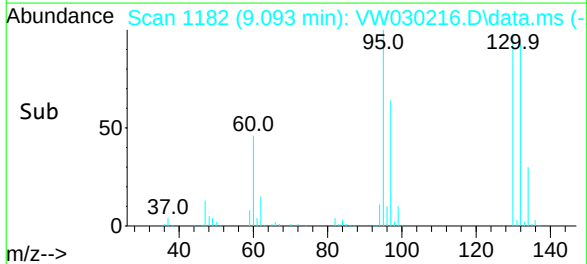
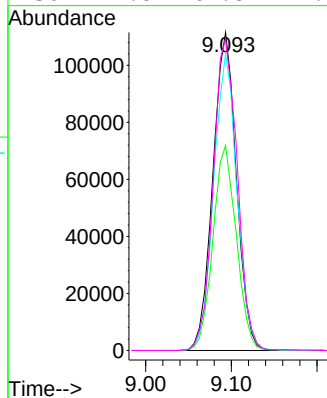
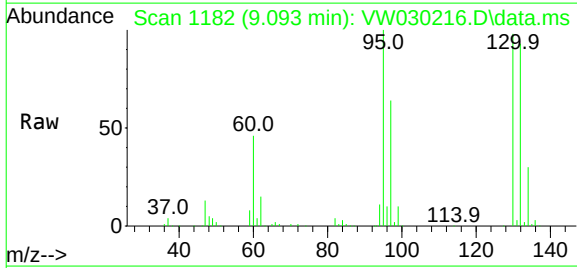
Ion Ratio Lower Upper

95 100

97 64.5 45.2 84.0

132 93.2 64.8 120.3

130 97.8 69.8 129.6



#37

1,2-Dichloropropane

Concen: 16.052 ug/L

RT: 9.368 min Scan# 1227

Delta R.T. 0.000 min

Lab File: VW030216.D

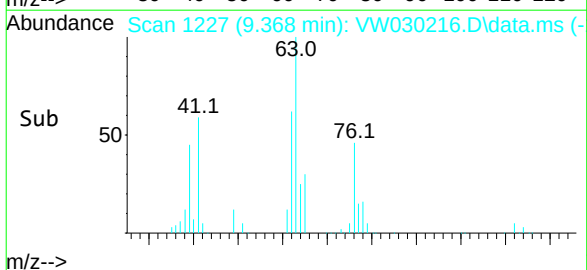
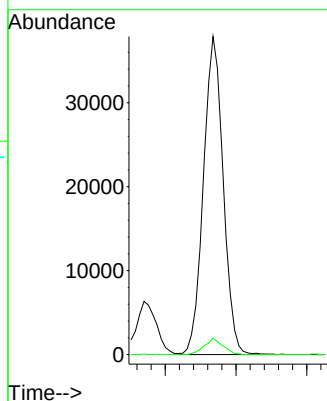
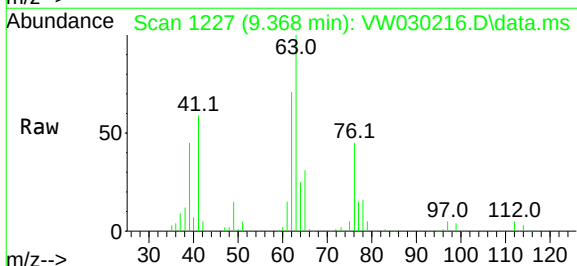
Acq: 24 Sep 2024 11:40

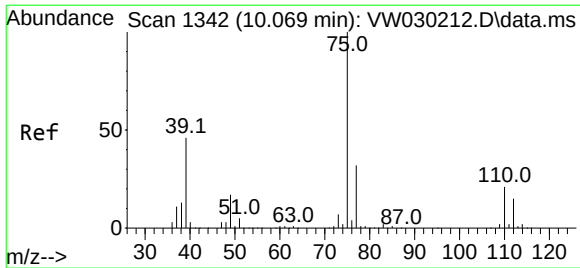
Tgt Ion: 63 Resp: 73576

Ion Ratio Lower Upper

63 100

112 4.8 3.5 5.3

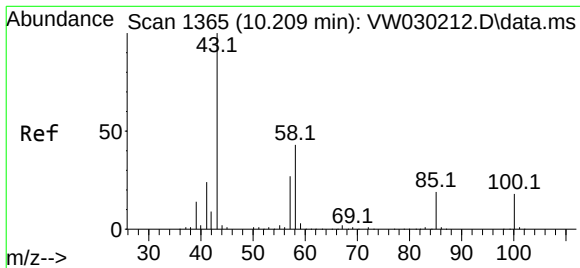
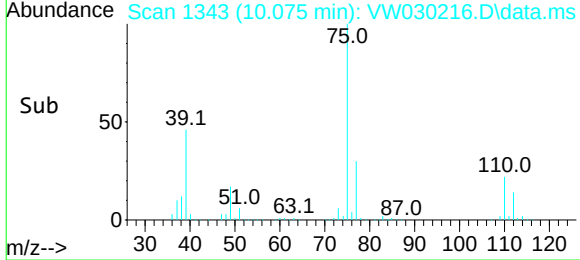
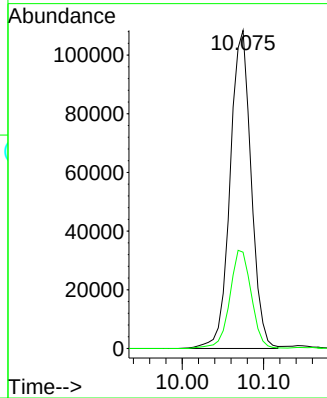
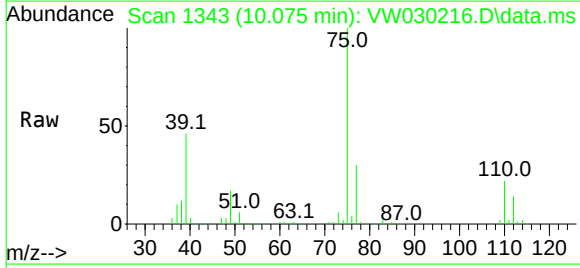




#39
 cis-1,3-Dichloropropene
 Concen: 29.007 ug/L
 RT: 10.075 min Scan# 1343
 Delta R.T. 0.006 min
 Lab File: VW030216.D
 Acq: 24 Sep 2024 11:40

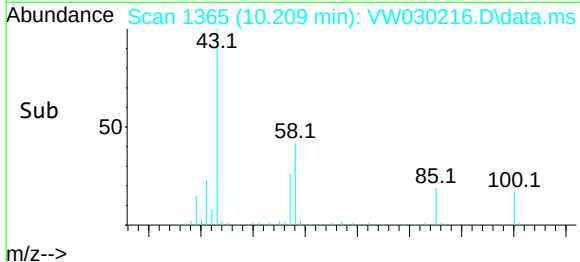
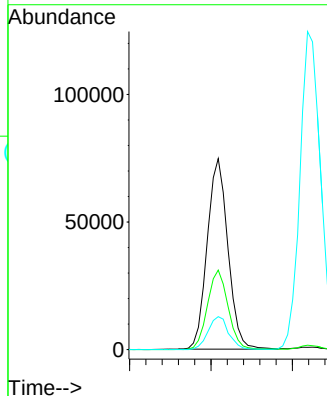
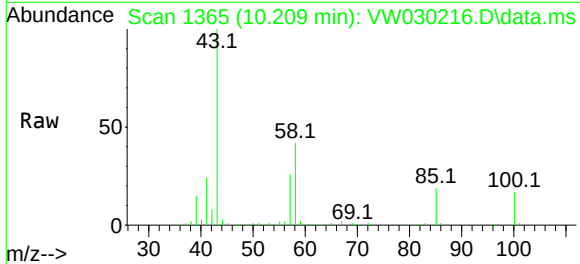
Instrument :
 MSVOA_W
 ClientSampleId :
 A4E63DL

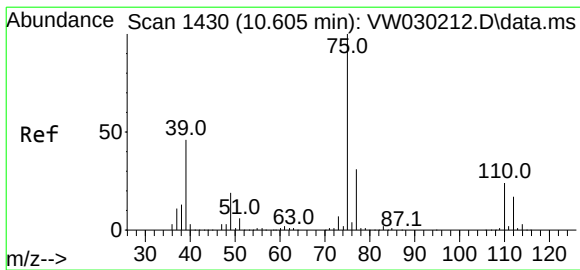
Tgt Ion: 75 Resp: 194506
 Ion Ratio Lower Upper
 75 100
 77 30.3 20.7 38.5



#40
 4-Methyl-2-pentanone
 Concen: 56.397 ug/L
 RT: 10.209 min Scan# 1365
 Delta R.T. 0.000 min
 Lab File: VW030216.D
 Acq: 24 Sep 2024 11:40

Tgt Ion: 43 Resp: 132087
 Ion Ratio Lower Upper
 43 100
 58 41.4 32.7 49.1
 100 17.3 12.7 19.1

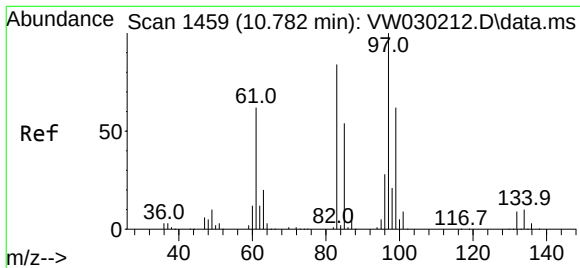
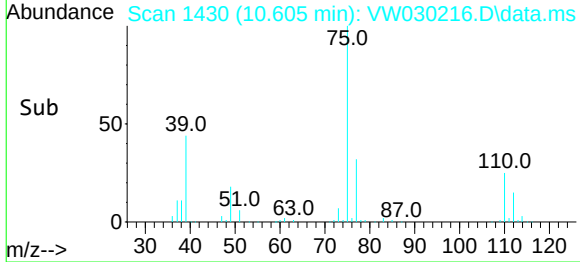
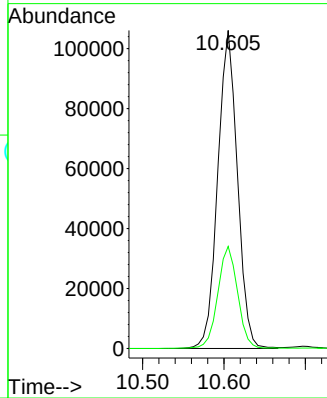
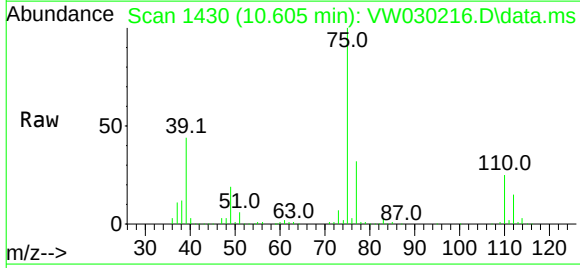




#44
trans-1,3-Dichloropropene
Concen: 31.559 ug/L
RT: 10.605 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VW030216.D
Acq: 24 Sep 2024 11:40

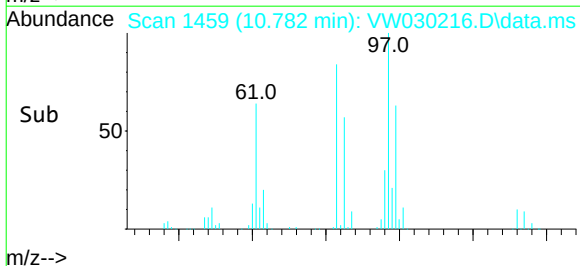
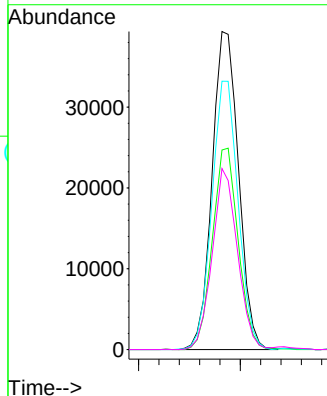
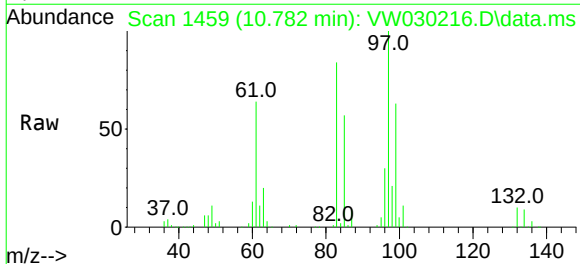
Instrument :
MSVOA_W
ClientSampleId :
A4E63DL

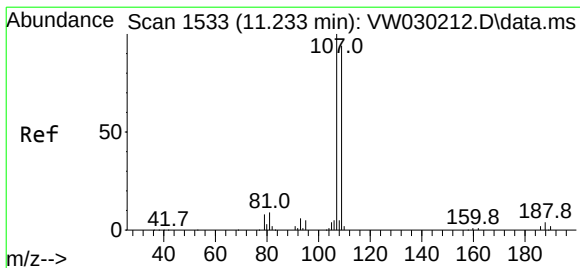
Tgt Ion: 75 Resp: 178017
Ion Ratio Lower Upper
75 100
77 32.1 21.2 39.4



#45
1,1,2-Trichloroethane
Concen: 21.355 ug/L
RT: 10.782 min Scan# 1459
Delta R.T. 0.000 min
Lab File: VW030216.D
Acq: 24 Sep 2024 11:40

Tgt Ion: 97 Resp: 71224
Ion Ratio Lower Upper
97 100
99 62.8 45.6 84.8
83 84.4 64.0 119.0
85 56.9 38.9 72.3





#50

1,2-Dibromoethane

Concen: 19.842 ug/L

RT: 11.233 min Scan# 1533

Delta R.T. 0.000 min

Lab File: VW030216.D

Acq: 24 Sep 2024 11:40

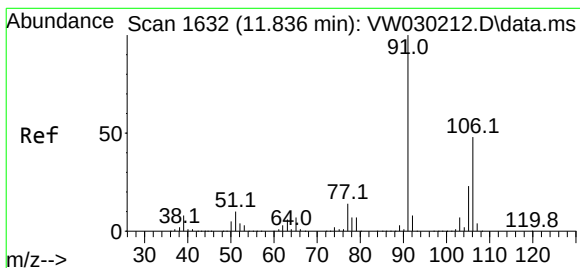
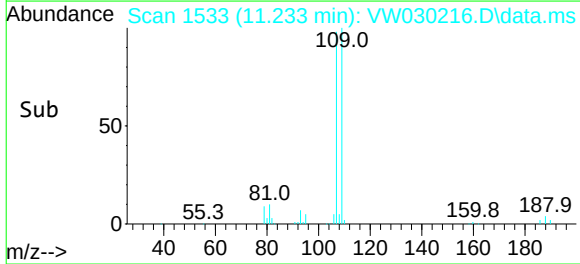
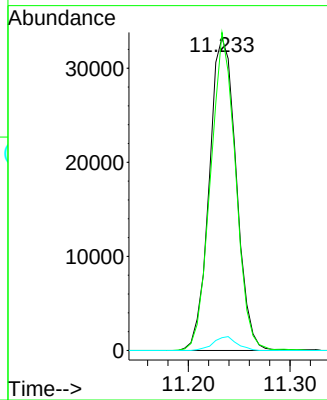
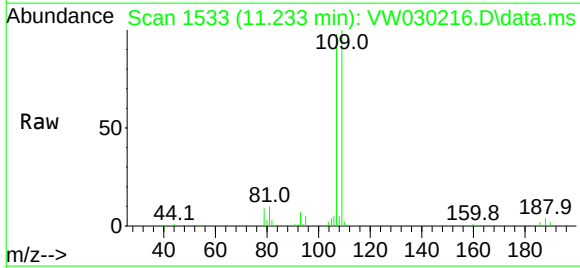
Instrument :

MSVOA_W

ClientSampleId :

A4E63DL

Tgt Ion:	107	Resp:	61021
Ion Ratio	Lower	Upper	
107	100		
109	101.7	68.7	127.7
188	4.1	2.6	4.0



#53

m,p-Xylene

Concen: 23.810 ug/L

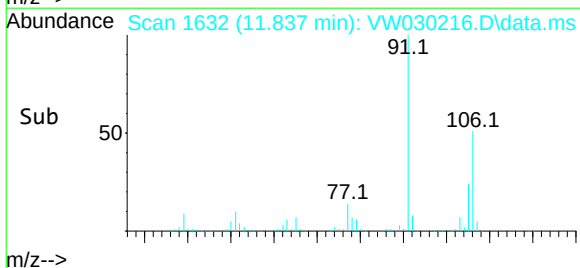
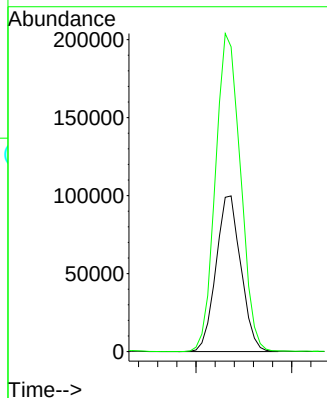
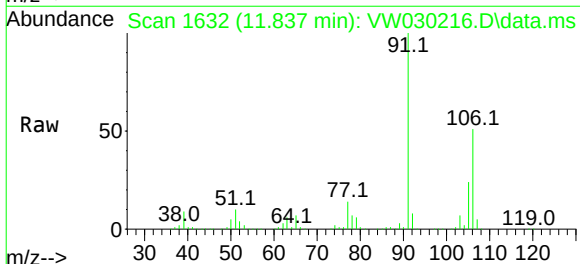
RT: 11.837 min Scan# 1632

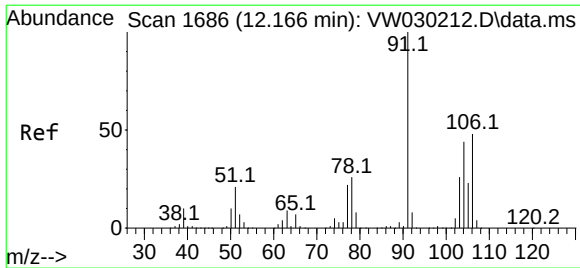
Delta R.T. 0.000 min

Lab File: VW030216.D

Acq: 24 Sep 2024 11:40

Tgt Ion:	106	Resp:	180455
Ion Ratio	Lower	Upper	
106	100		
91	195.8	152.9	283.9





#54

o-Xylene

Concen: 31.391 ug/L

RT: 12.160 min Scan# 1685

Delta R.T. -0.006 min

Lab File: VW030216.D

Acq: 24 Sep 2024 11:40

Instrument :

MSVOA_W

ClientSampleId :

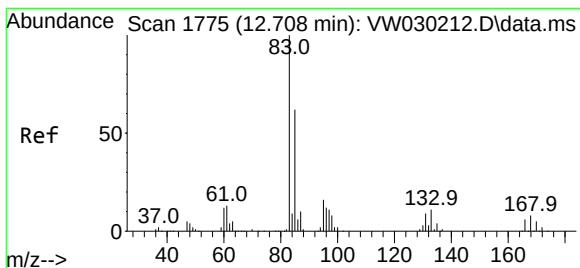
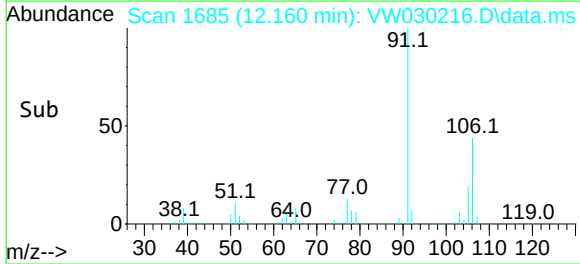
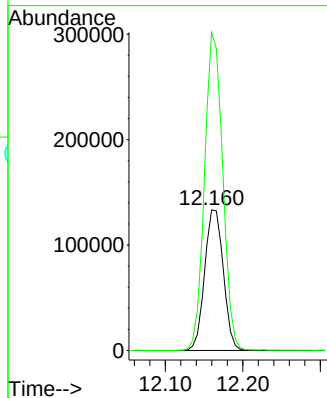
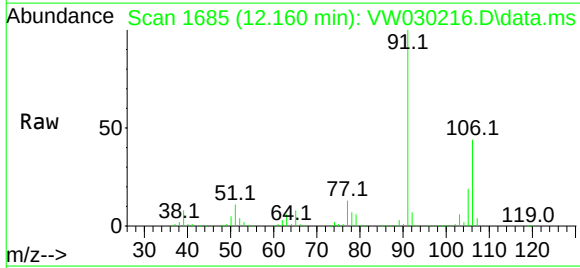
A4E63DL

Tgt Ion:106 Resp: 223875

Ion Ratio Lower Upper

106 100

91 226.3 158.1 293.7



#57

1,1,2,2-Tetrachloroethane

Concen: 19.429 ug/L

RT: 12.715 min Scan# 1776

Delta R.T. 0.006 min

Lab File: VW030216.D

Acq: 24 Sep 2024 11:40

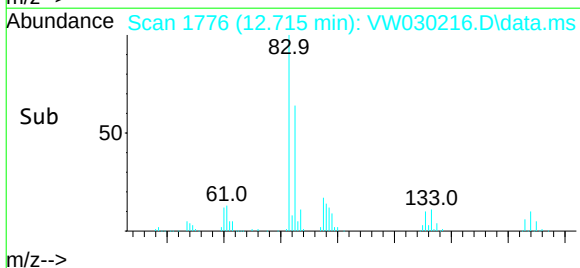
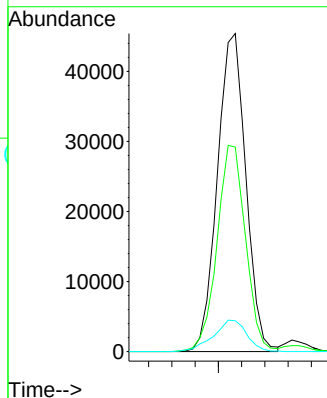
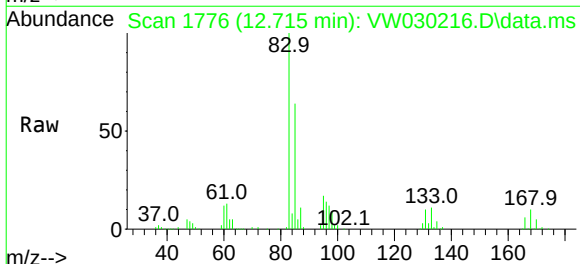
Tgt Ion: 83 Resp: 77348

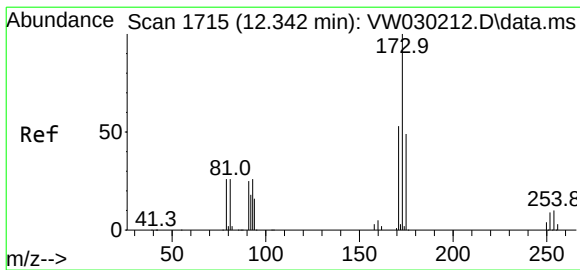
Ion Ratio Lower Upper

83 100

85 64.3 44.5 82.7

131 9.7 7.4 11.2

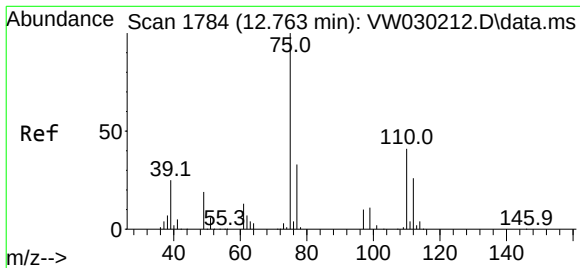
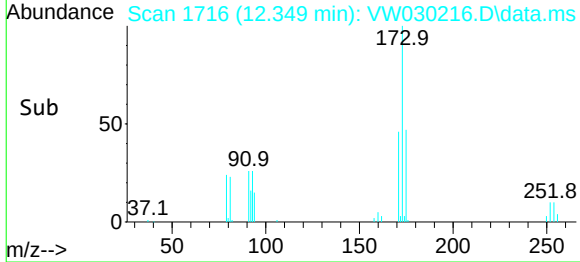
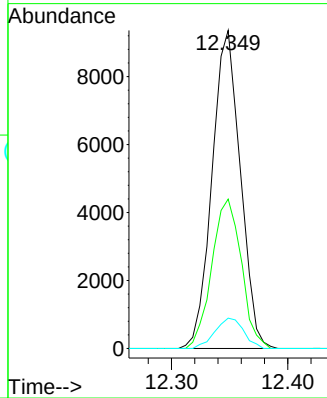
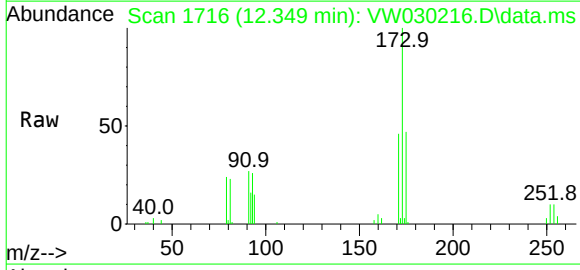




#59
Bromoform
Concen: 7.401 ug/L
RT: 12.349 min Scan# 1715
Delta R.T. 0.006 min
Lab File: VW030216.D
Acq: 24 Sep 2024 11:40

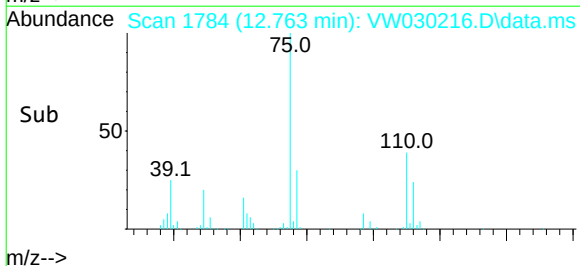
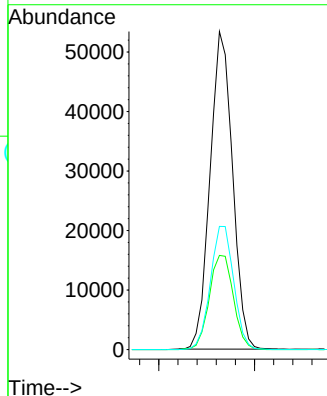
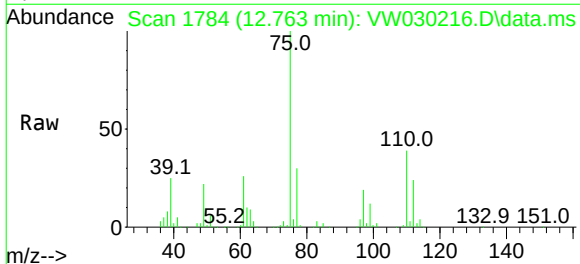
Instrument :
MSVOA_W
ClientSampleId :
A4E63DL

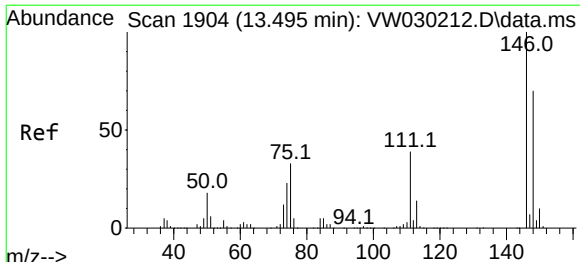
Tgt Ion:	173	Resp:	15814
Ion Ratio	Lower	Upper	
173	100		
175	49.0	38.6	57.8
254	9.7	7.7	11.5



#61
1,2,3-Trichloropropane
Concen: 31.033 ug/L
RT: 12.763 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VW030216.D
Acq: 24 Sep 2024 11:40

Tgt Ion:	75	Resp:	87163
Ion Ratio	Lower	Upper	
75	100		
77	31.8	26.2	39.2
110	40.2	29.7	44.5

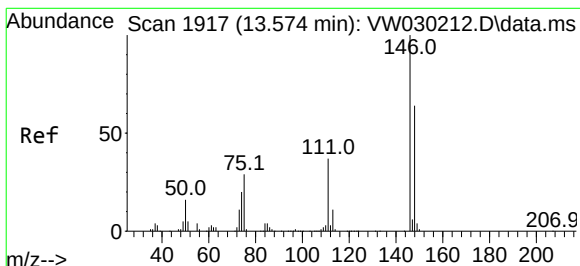
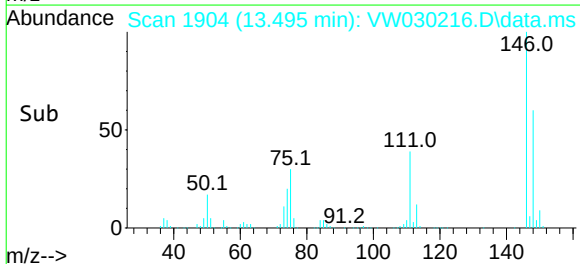
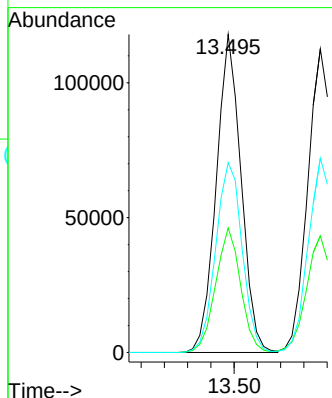
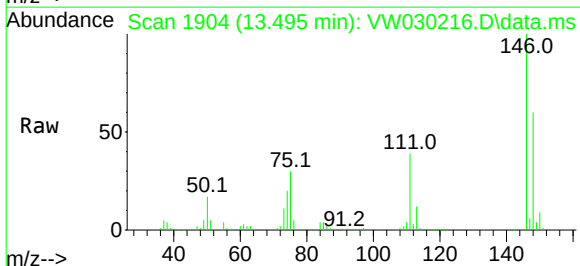




#64
 1,3-Dichlorobenzene
 Concen: 19.866 ug/L
 RT: 13.495 min Scan# 1904
 Delta R.T. 0.000 min
 Lab File: VW030216.D
 Acq: 24 Sep 2024 11:40

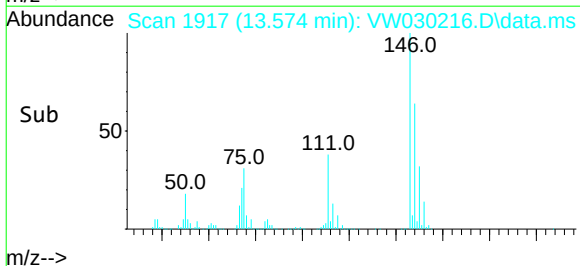
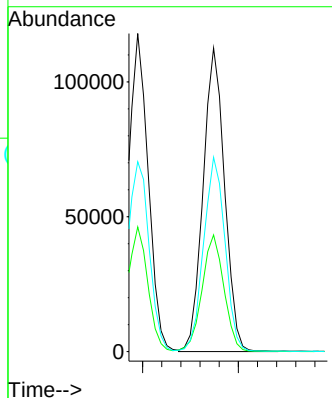
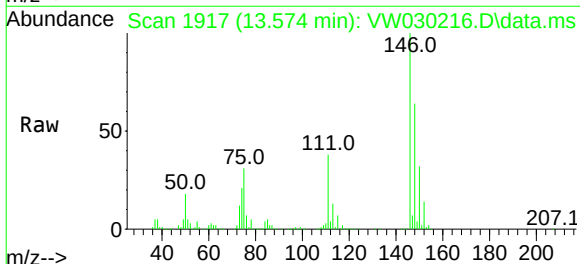
Instrument :
 MSVOA_W
 ClientSampleId :
 A4E63DL

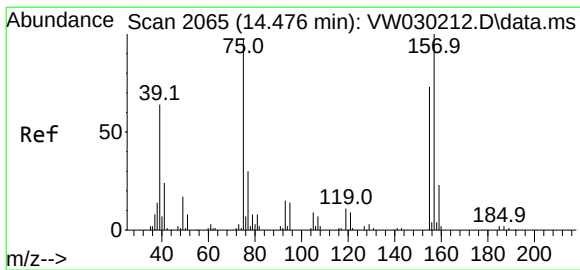
Tgt Ion:	146	Resp:	175014
Ion	Ratio	Lower	Upper
146	100		
111	39.2	31.9	59.3
148	59.7	47.7	88.5



#65
 1,4-Dichlorobenzene
 Concen: 19.321 ug/L
 RT: 13.574 min Scan# 1917
 Delta R.T. 0.000 min
 Lab File: VW030216.D
 Acq: 24 Sep 2024 11:40

Tgt Ion:	146	Resp:	175849
Ion	Ratio	Lower	Upper
146	100		
111	38.4	29.5	54.7
148	64.0	44.4	82.5

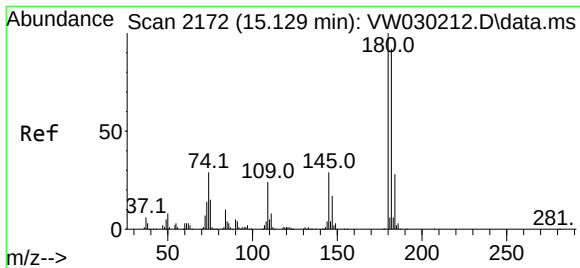
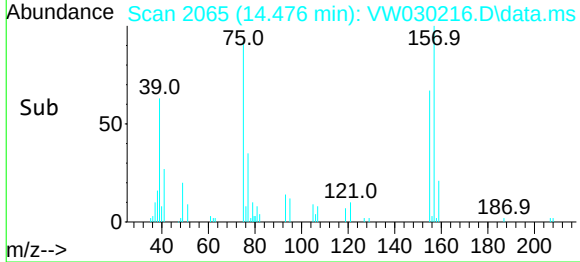
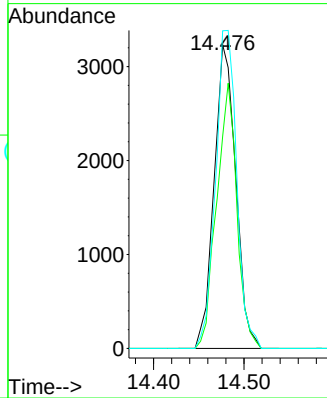
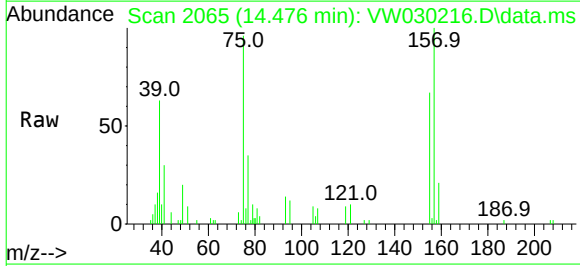




#68
1,2-Dibromo-3-chloropropane
Concen: 8.790 ug/L
RT: 14.476 min Scan# 2065
Delta R.T. 0.000 min
Lab File: VW030216.D
Acq: 24 Sep 2024 11:40

Instrument :
MSVOA_W
ClientSampleId :
A4E63DL

Tgt Ion:	75	Resp:	5384
Ion Ratio	Lower	Upper	
75	100		
155	69.8	60.5	90.7
157	104.6	66.9	100.3



#70
1,2,4-trichlorobenzene
Concen: 10.603 ug/L
RT: 15.123 min Scan# 2171
Delta R.T. -0.006 min
Lab File: VW030216.D
Acq: 24 Sep 2024 11:40

Tgt Ion:	180	Resp:	52815
Ion Ratio	Lower	Upper	
180	100		
182	86.9	73.4	110.2
145	31.6	24.0	36.0

