

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW012925\
 Data File : VW031637.D
 Acq On : 29 Jan 2025 13:30
 Operator : SY/MD
 Sample : Q1190-018DL 4X
 Misc : 5.00g/10mL/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Jan 30 07:31:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM011025SMA.M
 Quant Title : SFAM01.0
 QLast Update : Thu Jan 30 07:28:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.837	114	563218	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.629	117	492295	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.556	152	246051	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.363	65	142623	16.138	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	64.560%
7) Chloroethane-d5	2.893	69	115362	18.278	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	73.120%
11) 1,1-Dichloroethene-d2	4.021	65	72243	18.372	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	73.480%
21) 2-Butanone-d5	7.081	46	94022	66.180	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	132.360%
24) Chloroform-d	7.648	84	352652	24.194	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	96.760%
26) 1,2-Dichloroethane-d4	8.301	65	189325	26.389	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	105.560%
32) Benzene-d6	8.270	84	698251	22.580	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	90.320%
36) 1,2-Dichloropropane-d6	9.270	67	217967	23.873	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	95.480%
41) Toluene-d8	10.318	98	651867	23.352	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	93.400%
43) trans-1,3-Dichloroprop...	10.575	79	88808	23.686	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	94.760%
47) 2-Hexanone-d5	10.922	63	64130	68.828	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	137.660%#
56) 1,1,2,2-Tetrachloroeth...	12.684	84	171254	30.672	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	122.680%#
66) 1,2-Dichlorobenzene-d4	13.848	152	203985	23.637	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	94.560%
Target Compounds						
					Qvalue	
16) Methylene chloride	4.923	84	145093	18.916	ug/L	100
17) trans-1,2-Dichloroethene	5.429	96	55887	6.943	ug/L	91
18) Methyl tert-butyl Ether	5.429	73	130341	10.098	ug/L	99
19) 1,1-Dichloroethane	6.216	63	305362	20.163	ug/L	99
22) 2-Butanone	7.173	43	121641	65.139	ug/L	98
25) Chloroform	7.673	83	304548	21.142	ug/L	96
31) Carbon tetrachloride	8.063	117	39760	3.509	ug/L	96
33) Benzene	8.319	78	495614	14.710	ug/L	100
34) Trichloroethene	9.087	95	187690	20.720	ug/L	96
37) 1,2-Dichloropropane	9.367	63	73136	8.636	ug/L	99
39) cis-1,3-Dichloropropene	10.069	75	186511	14.001	ug/L	98
40) 4-Methyl-2-pentanone	10.203	43	162590	38.465	ug/L	99
44) trans-1,3-Dichloropropene	10.599	75	174339	16.373	ug/L	98
45) 1,1,2-Trichloroethane	10.782	97	67042	12.351	ug/L	97
50) 1,2-Dibromoethane	11.233	107	59504	11.828	ug/L	98
53) m,p-Xylene	11.830	106	164771	10.694	ug/L	100
54) o-Xylene	12.160	106	205330	14.339	ug/L	95
55) Styrene	12.160	104	10910	0.458	ug/L #	1
57) 1,1,2,2-Tetrachloroethane	12.708	83	79897	13.396	ug/L	100

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Quant Title : SFAM01.0
QLast Update : Thu Jan 30 07:28:52 2025
Response via : Initial Calibration

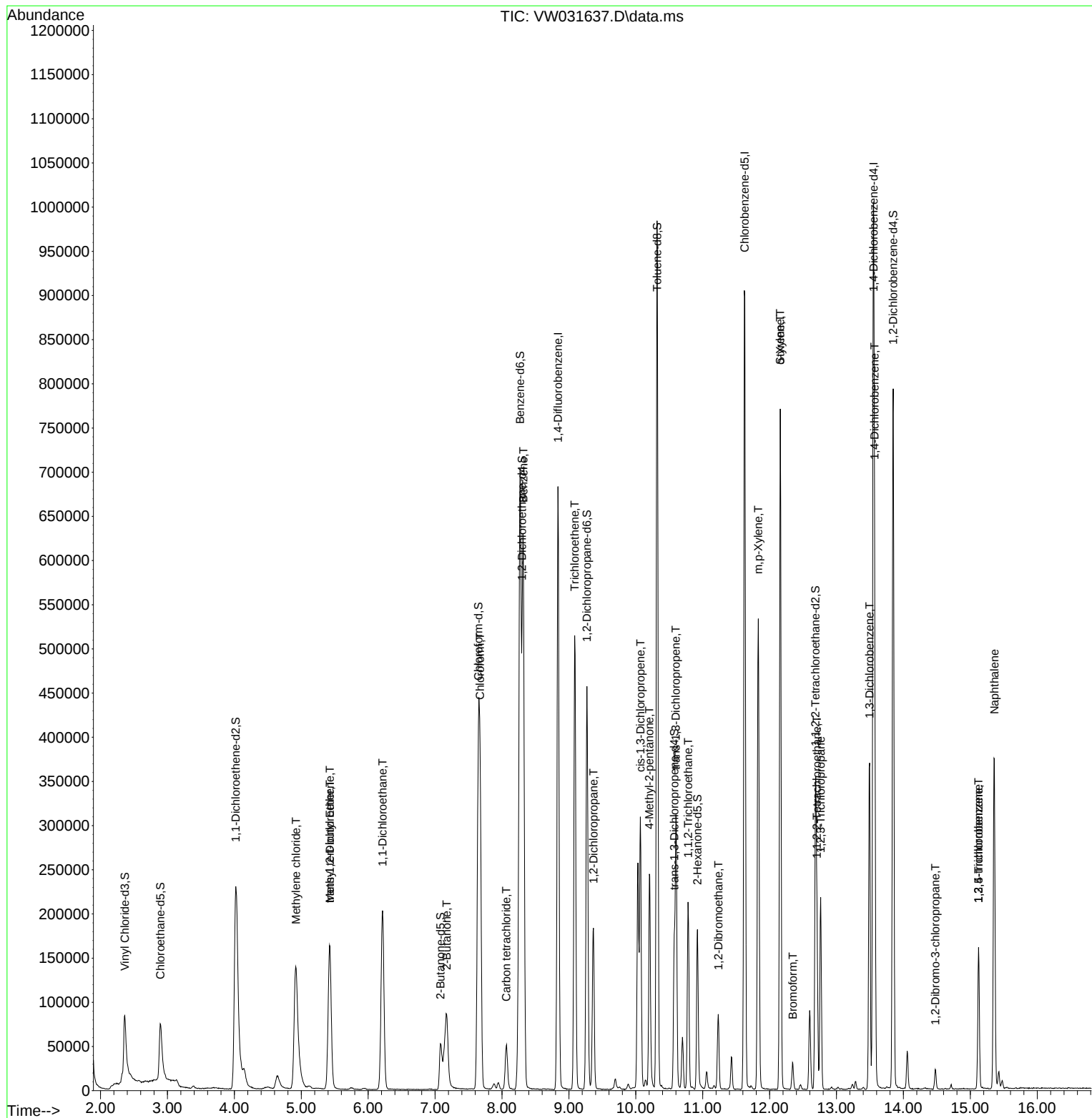
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
59) Bromoform	12.349	173	13460	4.105	ug/L #	97
61) 1,2,3-Trichloropropane	12.763	75	93856	20.313	ug/L	99
64) 1,3-Dichlorobenzene	13.495	146	149480	8.768	ug/L	95
65) 1,4-Dichlorobenzene	13.568	146	146808	8.707	ug/L	94
68) 1,2-Dibromo-3-chloropr...	14.476	75	5990	5.799	ug/L	95
69) 1,3,5-Trichlorobenzene	15.122	180	47583	4.119	ug/L	98
70) 1,2,4-trichlorobenzene	15.122	180	47583	5.171	ug/L	95
71) Naphthalene	15.360	128	328786	19.055	ug/L	100

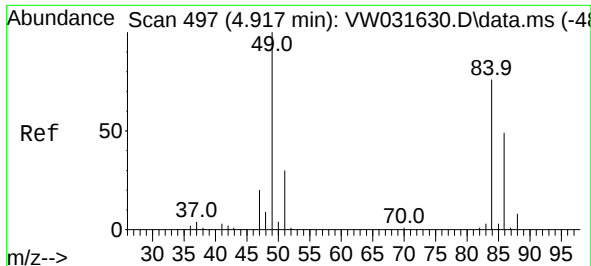
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Jan 30 07:28:52 2025
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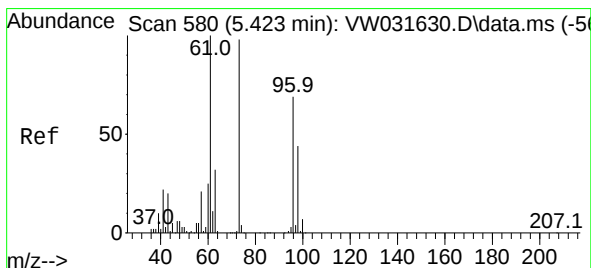
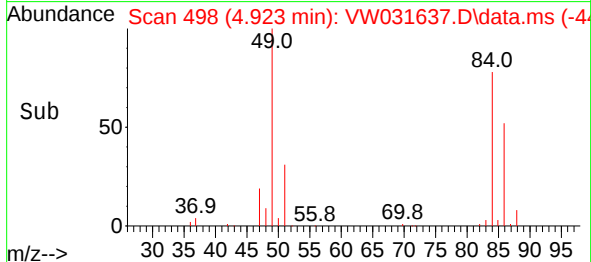
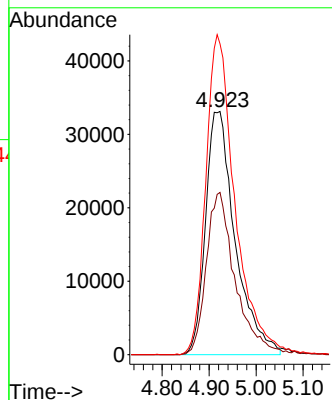
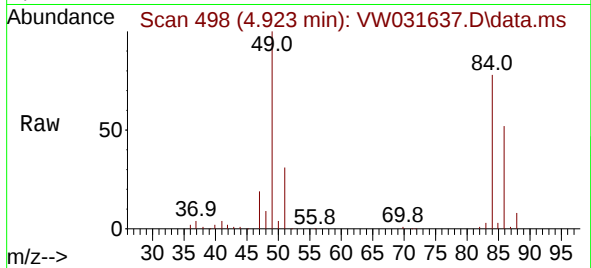




#16
Methylene chloride
Concen: 18.916 ug/L
RT: 4.923 min Scan# 498
Delta R.T. 0.006 min
Lab File: VW031637.D
Acq: 29 Jan 2025 13:30

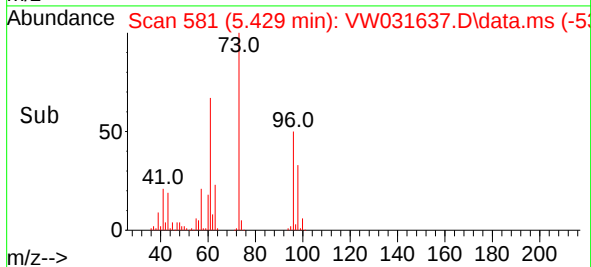
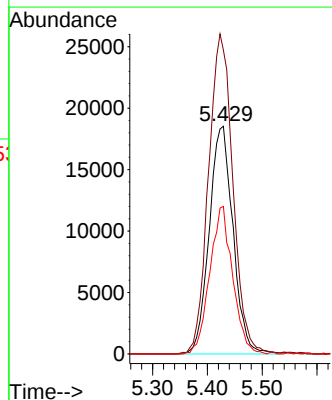
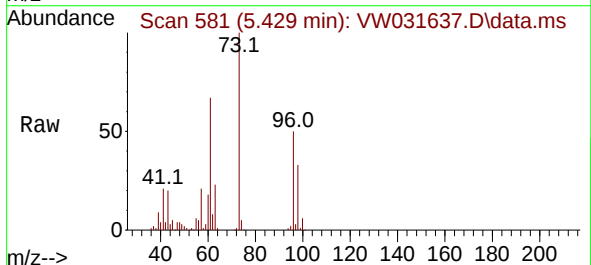
Instrument :
MSVOA_W
ClientSampleId :

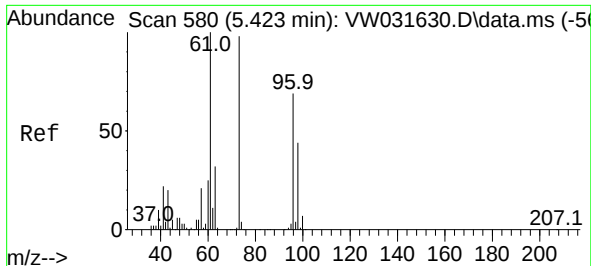
Tgt Ion: 84 Resp: 145093
Ion Ratio Lower Upper
84 100
86 66.7 47.0 87.2
49 127.8 89.8 166.8



#17
trans-1,2-Dichloroethene
Concen: 6.943 ug/L
RT: 5.429 min Scan# 581
Delta R.T. 0.006 min
Lab File: VW031637.D
Acq: 29 Jan 2025 13:30

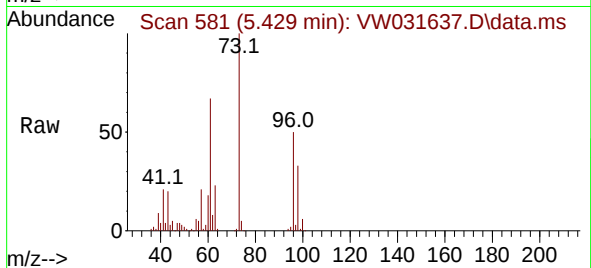
Tgt Ion: 96 Resp: 55887
Ion Ratio Lower Upper
96 100
61 133.5 105.1 195.1
98 64.8 44.9 83.3



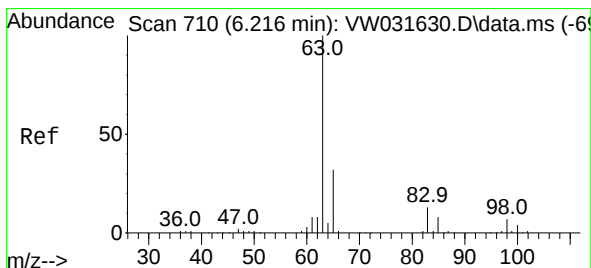
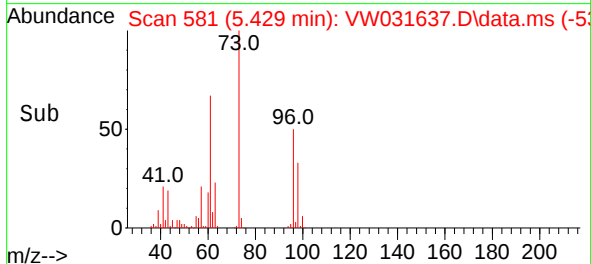
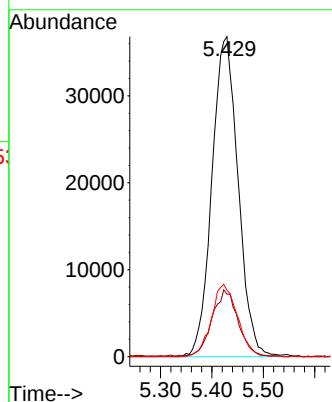


#18
Methyl tert-butyl Ether
Concen: 10.098 ug/L
RT: 5.429 min Scan# 580
Delta R.T. 0.006 min
Lab File: VW031637.D
Acq: 29 Jan 2025 13:30

Instrument :
MSVOA_W
ClientSampleId :

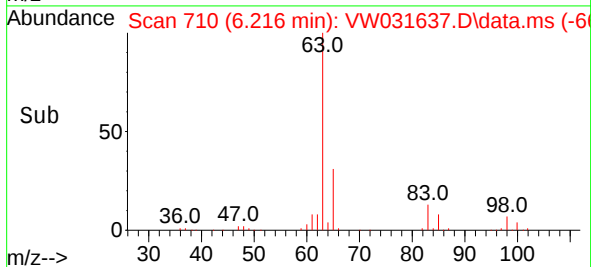
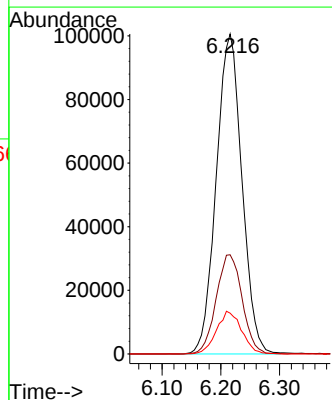
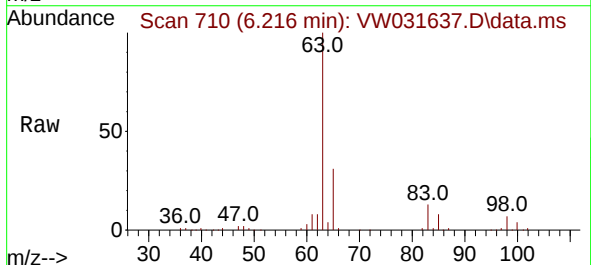


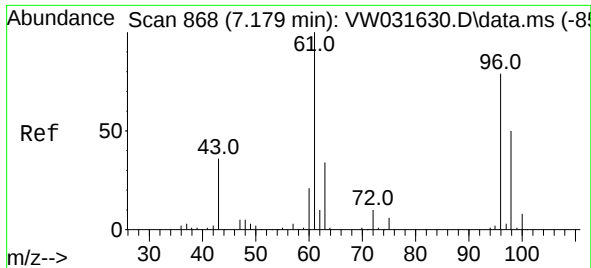
Tgt Ion: 73 Resp: 130341
Ion Ratio Lower Upper
73 100
43 20.6 16.4 24.6
57 22.4 18.2 27.2



#19
1,1-Dichloroethane
Concen: 20.163 ug/L
RT: 6.216 min Scan# 710
Delta R.T. -0.000 min
Lab File: VW031637.D
Acq: 29 Jan 2025 13:30

Tgt Ion: 63 Resp: 305362
Ion Ratio Lower Upper
63 100
65 31.0 22.0 41.0
83 12.7 9.0 16.6

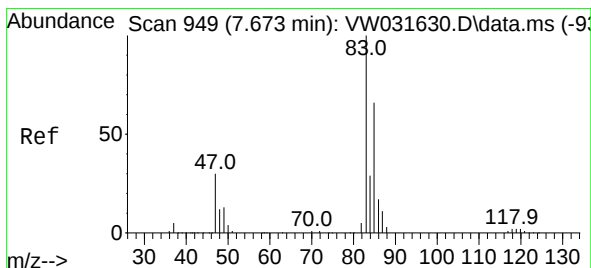
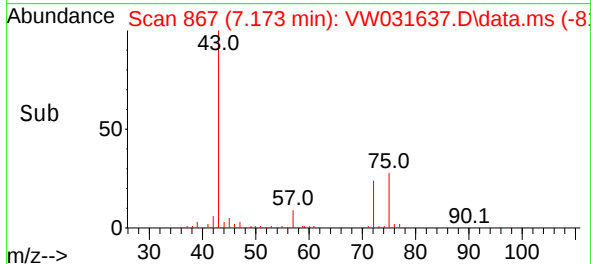
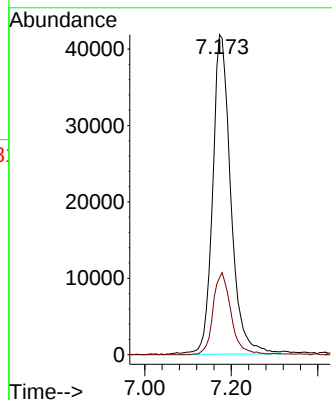
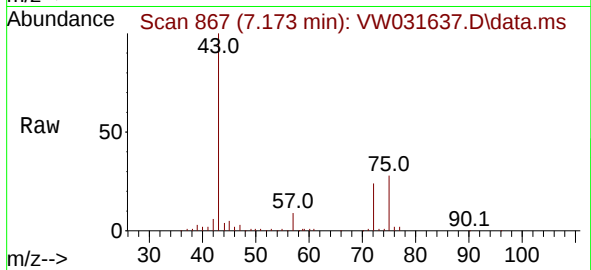




#22
2-Butanone
Concen: 65.139 ug/L
RT: 7.173 min Scan# 867
Delta R.T. -0.006 min
Lab File: VW031637.D
Acq: 29 Jan 2025 13:30

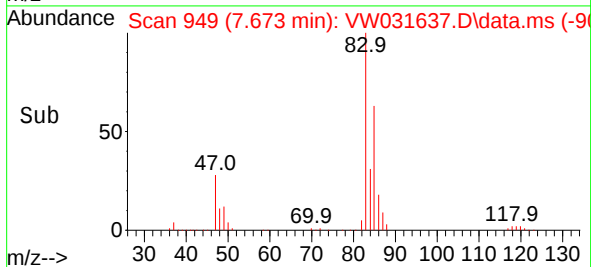
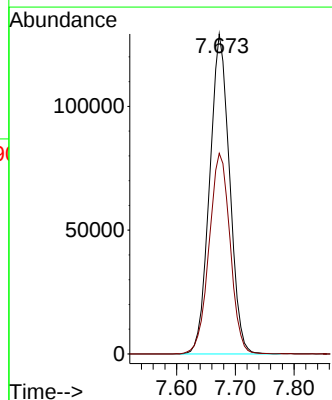
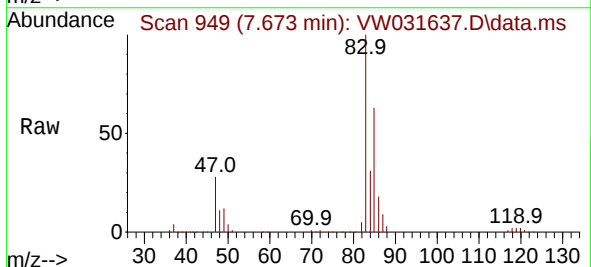
Instrument :
MSVOA_W
ClientSampleId :

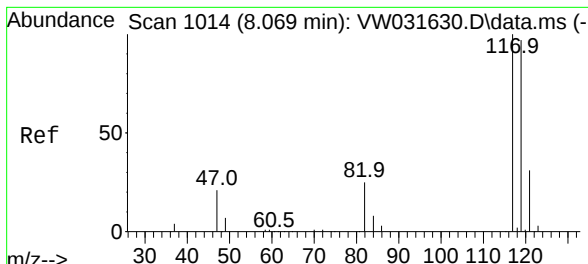
Tgt Ion: 43 Resp: 121641
Ion Ratio Lower Upper
43 100
72 25.5 13.2 39.5



#25
Chloroform
Concen: 21.142 ug/L
RT: 7.673 min Scan# 949
Delta R.T. -0.000 min
Lab File: VW031637.D
Acq: 29 Jan 2025 13:30

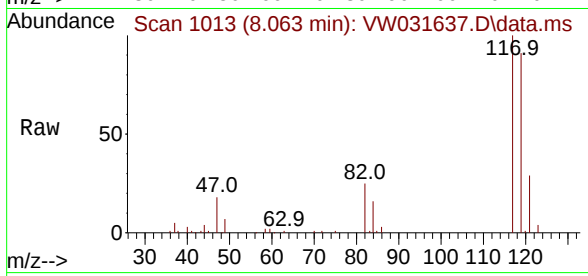
Tgt Ion: 83 Resp: 304548
Ion Ratio Lower Upper
83 100
85 62.7 46.2 85.8



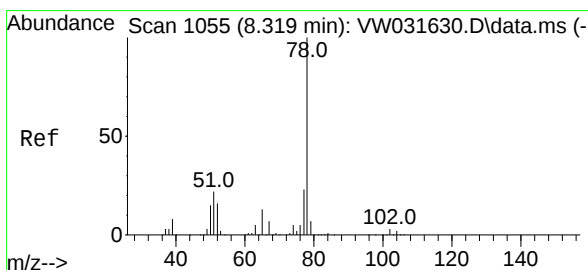
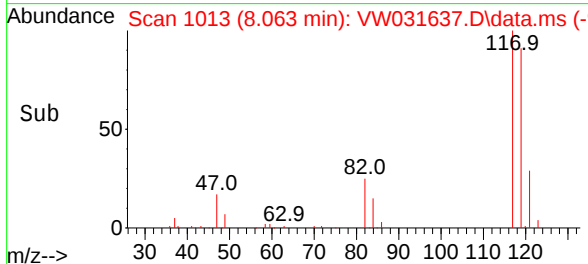
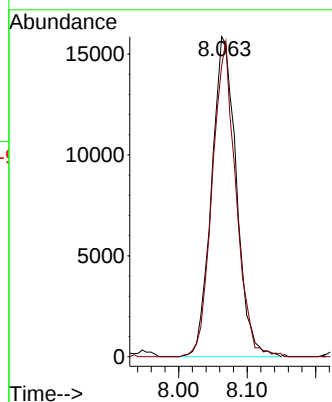


#31
Carbon tetrachloride
Concen: 3.509 ug/L
RT: 8.063 min Scan# 1013
Delta R.T. -0.006 min
Lab File: VW031637.D
Acq: 29 Jan 2025 13:30

Instrument : MSVOA_W
ClientSampleId :

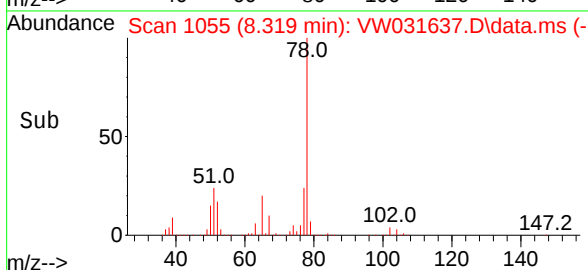
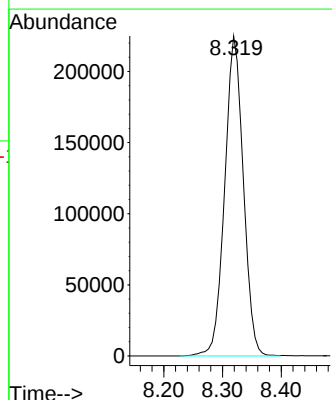
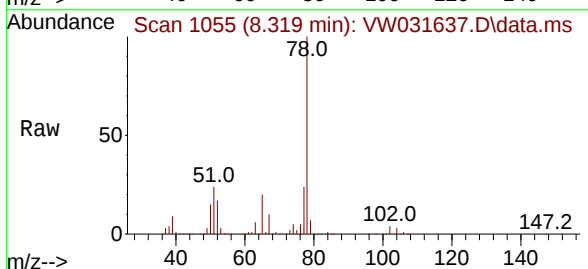


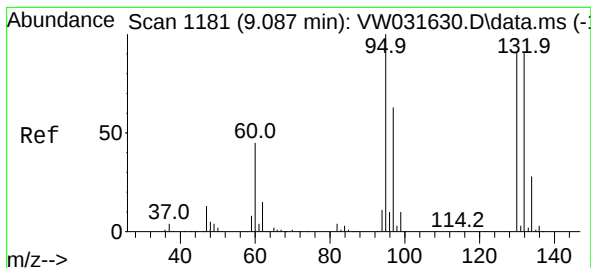
Tgt Ion:117 Resp: 39760
Ion Ratio Lower Upper
117 100
119 92.8 77.4 116.0



#33
Benzene
Concen: 14.710 ug/L
RT: 8.319 min Scan# 1055
Delta R.T. -0.000 min
Lab File: VW031637.D
Acq: 29 Jan 2025 13:30

Tgt Ion: 78 Resp: 495614





#34

Trichloroethene

Concen: 20.720 ug/L

RT: 9.087 min Scan# 1181

Delta R.T. -0.000 min

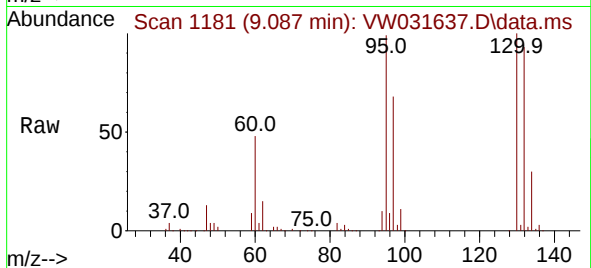
Lab File: VW031637.D

Acq: 29 Jan 2025 13:30

Instrument :

MSVOA_W

ClientSampleId :



Tgt Ion: 95 Resp: 187690

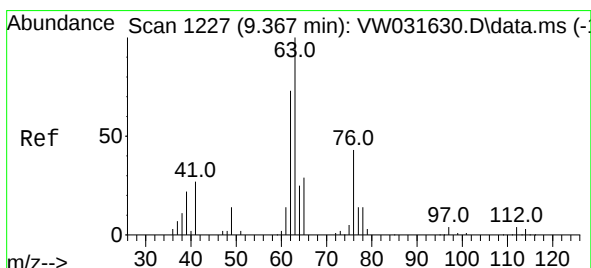
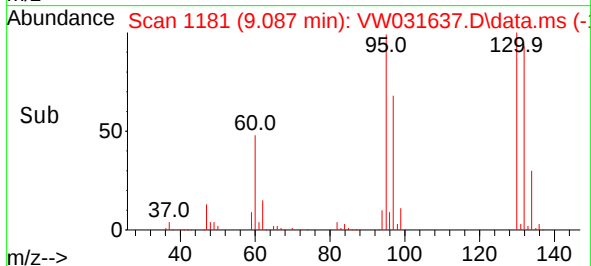
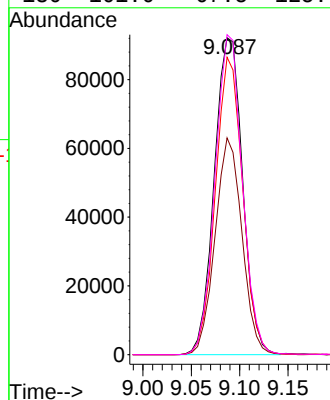
Ion Ratio Lower Upper

95 100

97 68.4 44.0 81.6

132 93.9 64.6 120.0

130 101.0 67.5 125.4



#37

1,2-Dichloropropane

Concen: 8.636 ug/L

RT: 9.367 min Scan# 1227

Delta R.T. -0.000 min

Lab File: VW031637.D

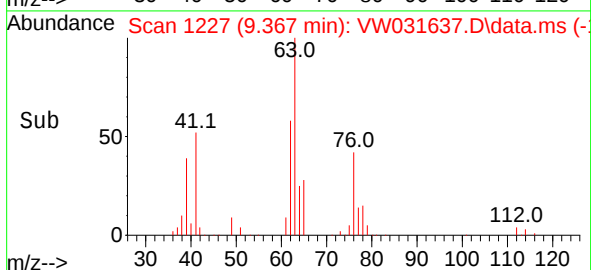
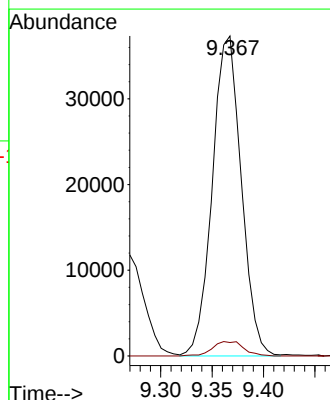
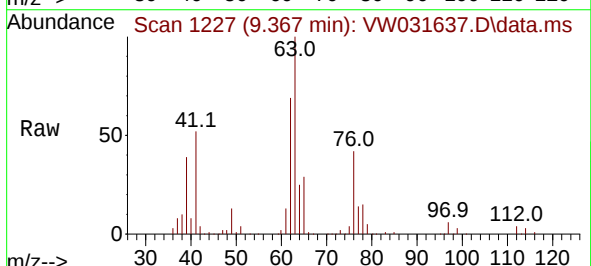
Acq: 29 Jan 2025 13:30

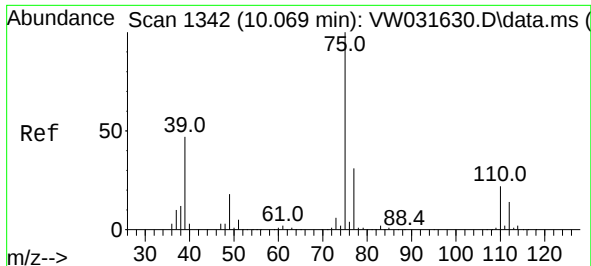
Tgt Ion: 63 Resp: 73136

Ion Ratio Lower Upper

63 100

112 4.9 3.6 5.4





#39

cis-1,3-Dichloropropene

Concen: 14.001 ug/L

RT: 10.069 min Scan# 1342

Delta R.T. -0.000 min

Lab File: VW031637.D

Acq: 29 Jan 2025 13:30

Instrument :

MSVOA_W

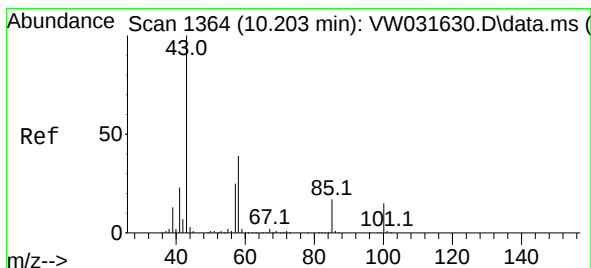
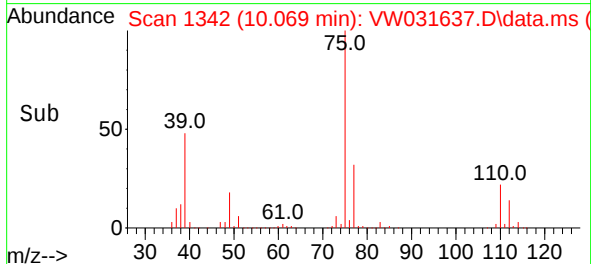
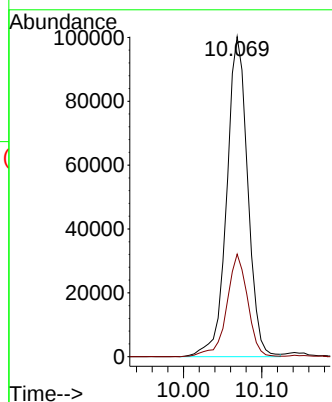
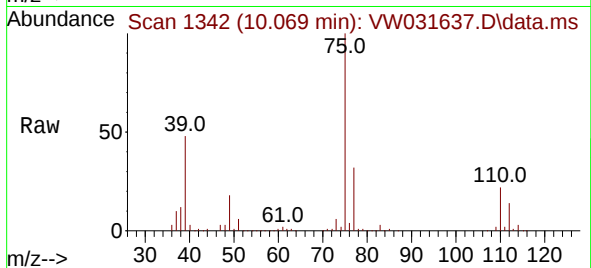
ClientSampleId :

Tgt Ion: 75 Resp: 186511

Ion Ratio Lower Upper

75 100

77 32.1 21.6 40.2



#40

4-Methyl-2-pentanone

Concen: 38.465 ug/L

RT: 10.203 min Scan# 1364

Delta R.T. -0.000 min

Lab File: VW031637.D

Acq: 29 Jan 2025 13:30

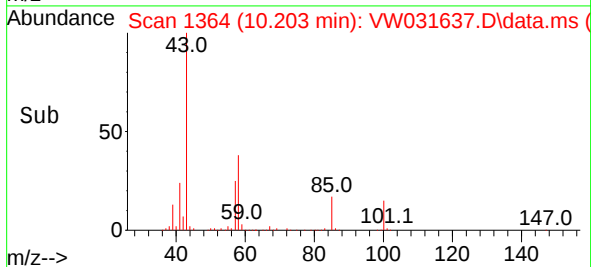
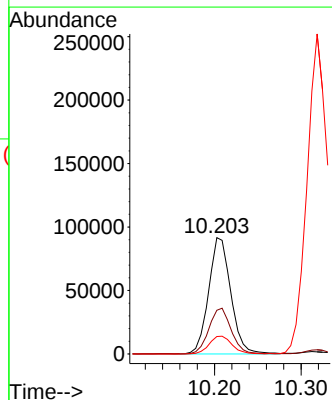
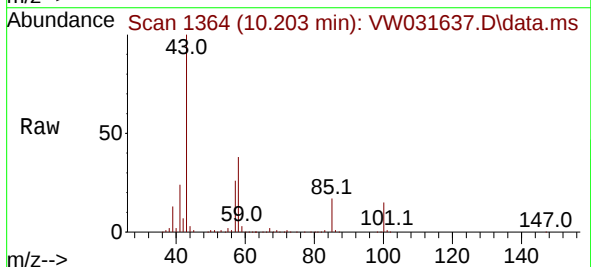
Tgt Ion: 43 Resp: 162590

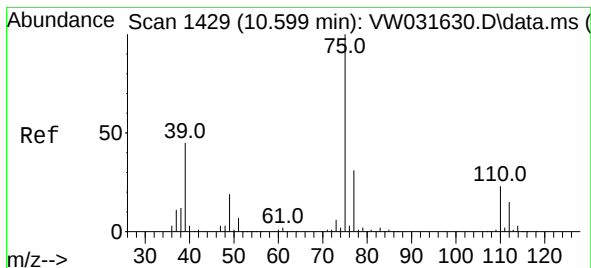
Ion Ratio Lower Upper

43 100

58 39.5 31.4 47.2

100 15.9 12.3 18.5





#44

trans-1,3-Dichloropropene

Concen: 16.373 ug/L

RT: 10.599 min Scan# 1429

Delta R.T. -0.000 min

Lab File: VW031637.D

Acq: 29 Jan 2025 13:30

Instrument :

MSVOA_W

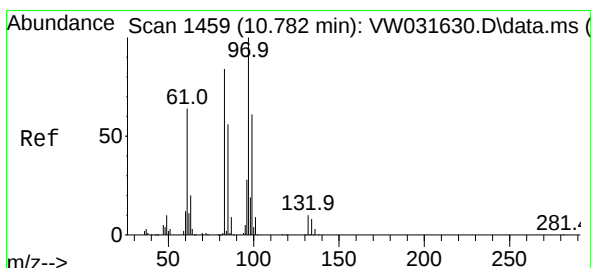
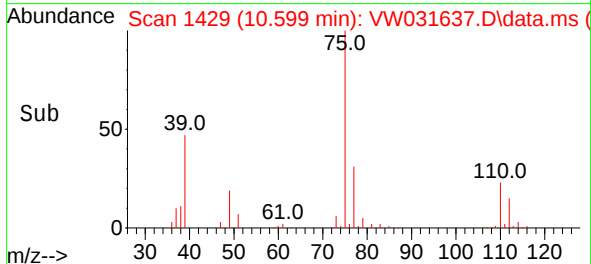
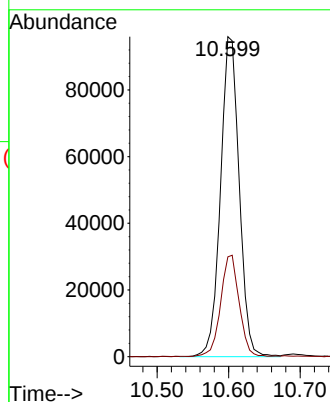
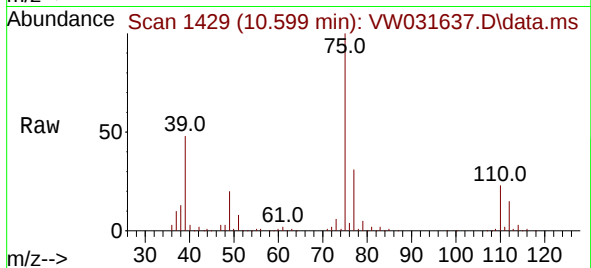
ClientSampleId :

Tgt Ion: 75 Resp: 174339

Ion Ratio Lower Upper

75 100

77 31.2 22.5 41.9



#45

1,1,2-Trichloroethane

Concen: 12.351 ug/L

RT: 10.782 min Scan# 1459

Delta R.T. -0.000 min

Lab File: VW031637.D

Acq: 29 Jan 2025 13:30

Tgt Ion: 97 Resp: 67042

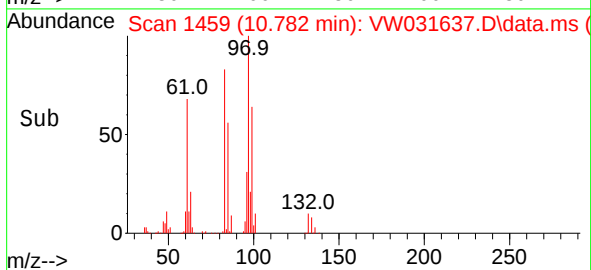
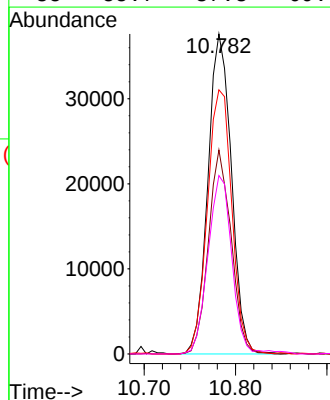
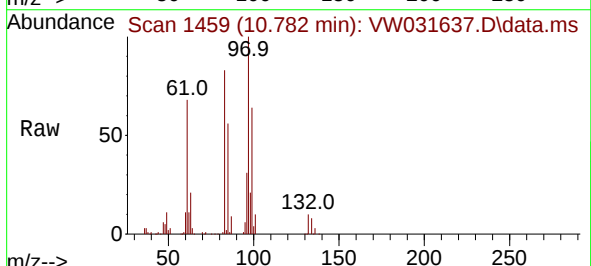
Ion Ratio Lower Upper

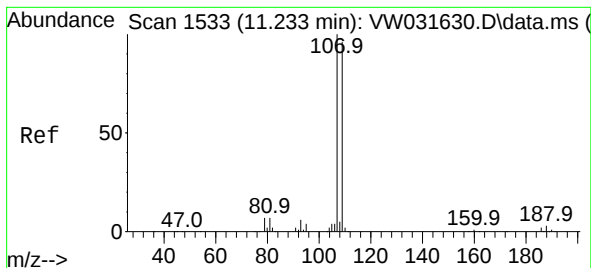
97 100

99 63.8 42.6 79.2

83 82.5 59.6 110.8

85 55.7 37.3 69.3

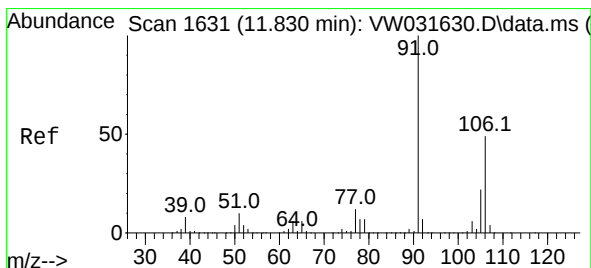
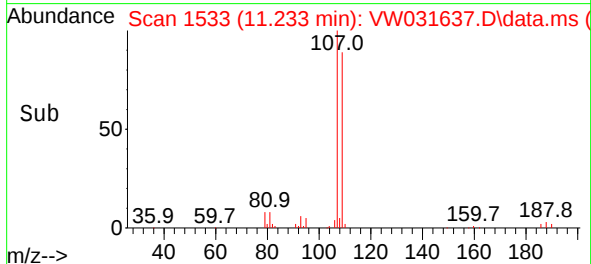
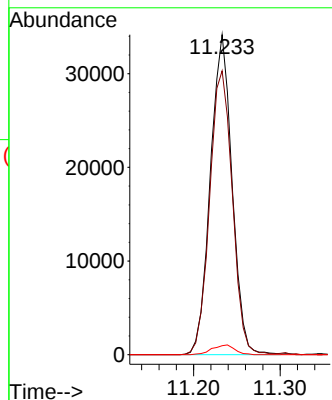
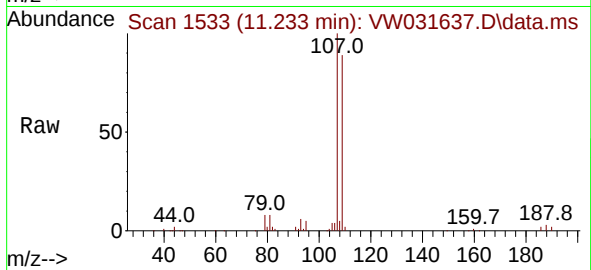




#50
1,2-Dibromoethane
Concen: 11.828 ug/L
RT: 11.233 min Scan# 1533
Delta R.T. -0.000 min
Lab File: VW031637.D
Acq: 29 Jan 2025 13:30

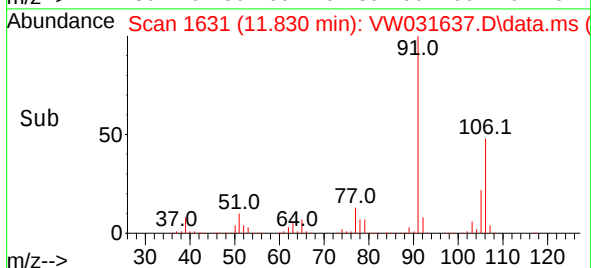
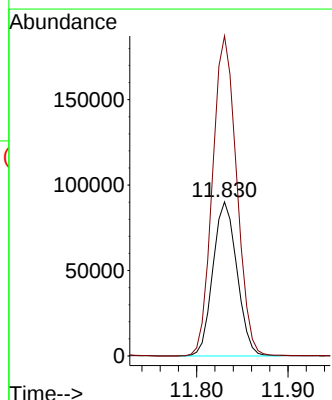
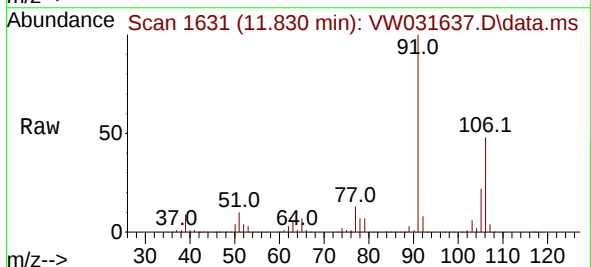
Instrument :
MSVOA_W
ClientSampleId :

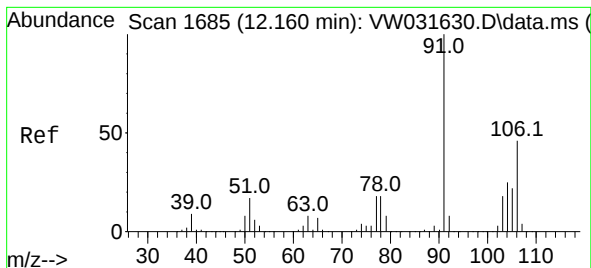
Tgt Ion:107 Resp: 59504
Ion Ratio Lower Upper
107 100
109 88.7 63.8 118.4
188 2.8 2.6 3.8



#53
m,p-Xylene
Concen: 10.694 ug/L
RT: 11.830 min Scan# 1631
Delta R.T. -0.000 min
Lab File: VW031637.D
Acq: 29 Jan 2025 13:30

Tgt Ion:106 Resp: 164771
Ion Ratio Lower Upper
106 100
91 207.7 145.9 270.9

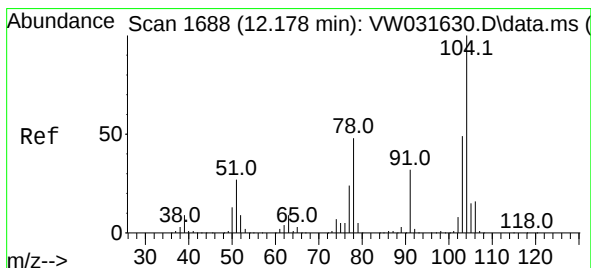
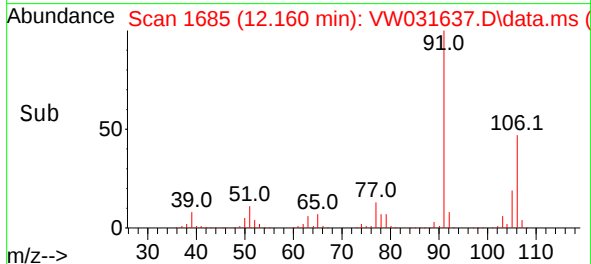
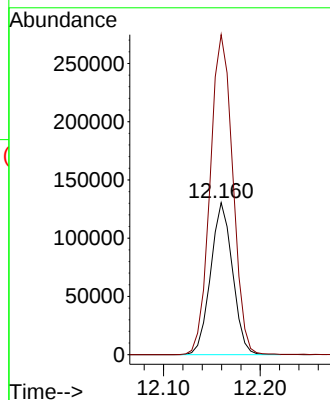
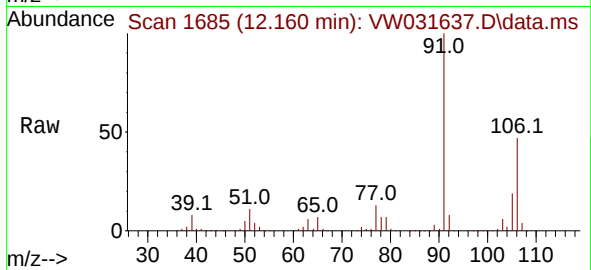




#54
o-Xylene
Concen: 14.339 ug/L
RT: 12.160 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VW031637.D
Acq: 29 Jan 2025 13:30

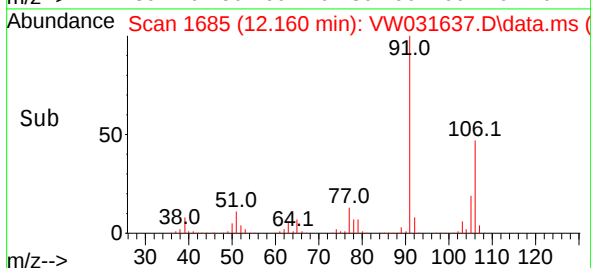
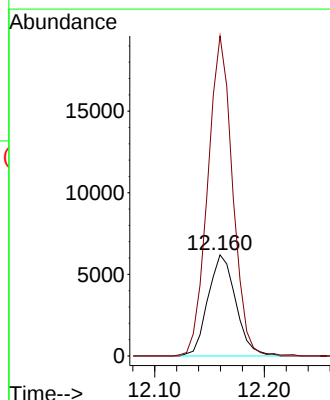
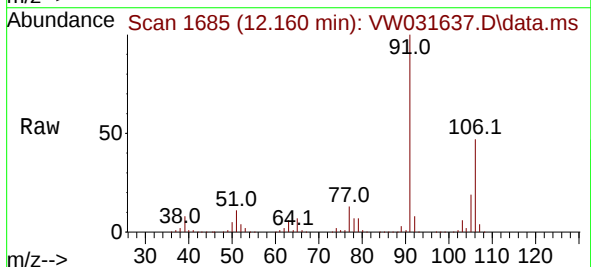
Instrument :
MSVOA_W
ClientSampleId :

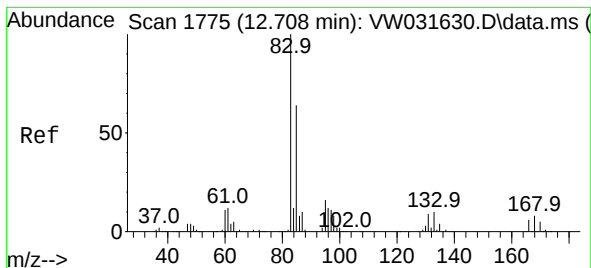
Tgt Ion:106 Resp: 205330
Ion Ratio Lower Upper
106 100
91 210.6 152.9 284.1



#55
Styrene
Concen: 0.458 ug/L
RT: 12.160 min Scan# 1685
Delta R.T. -0.018 min
Lab File: VW031637.D
Acq: 29 Jan 2025 13:30

Tgt Ion:104 Resp: 10910
Ion Ratio Lower Upper
104 100
78 316.2 32.0 59.4#

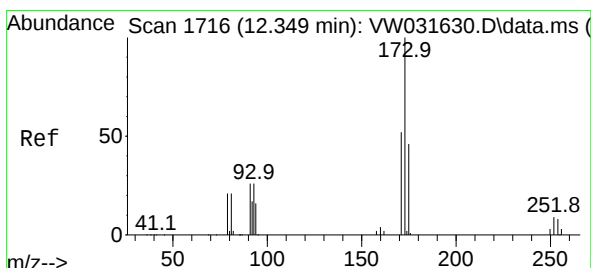
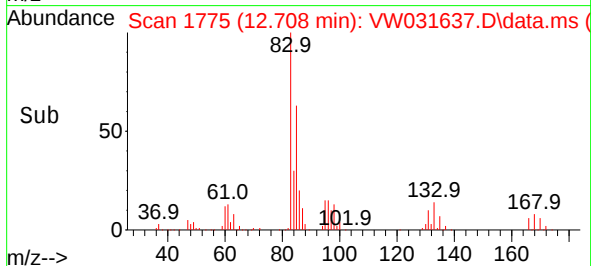
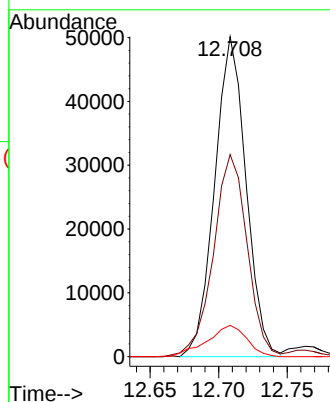
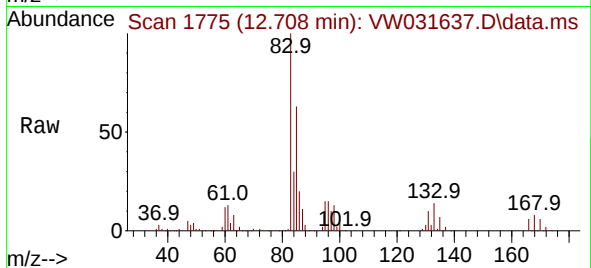




#57
1,1,2,2-Tetrachloroethane
Concen: 13.396 ug/L
RT: 12.708 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VW031637.D
Acq: 29 Jan 2025 13:30

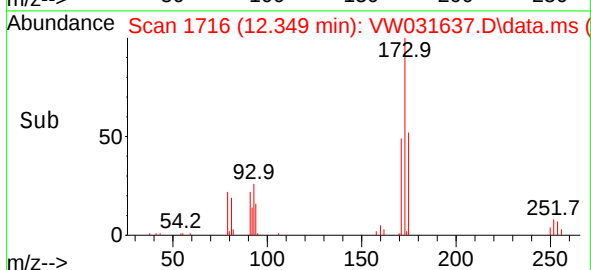
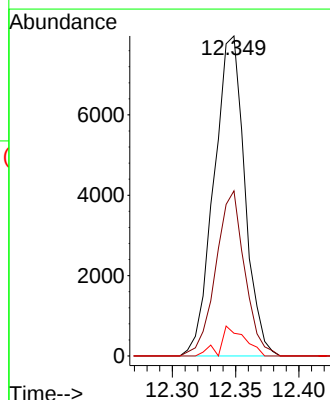
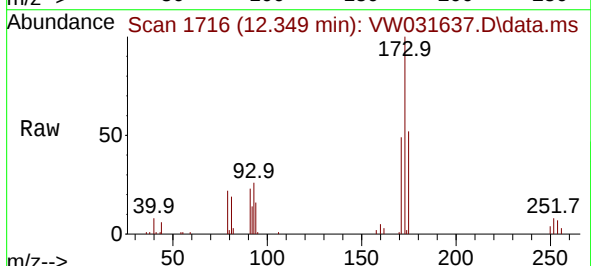
Instrument :
MSVOA_W
ClientSampleId :

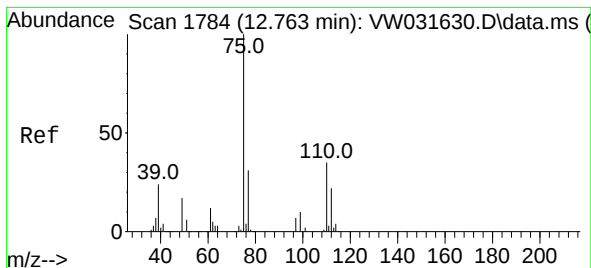
Tgt Ion: 83 Resp: 79897
Ion Ratio Lower Upper
83 100
85 63.2 44.1 81.9
131 9.8 7.4 11.0



#59
Bromoform
Concen: 4.105 ug/L
RT: 12.349 min Scan# 1716
Delta R.T. -0.000 min
Lab File: VW031637.D
Acq: 29 Jan 2025 13:30

Tgt Ion:173 Resp: 13460
Ion Ratio Lower Upper
173 100
175 48.4 37.7 56.5
254 6.4 7.1 10.7#





#61

1,2,3-Trichloropropane

Concen: 20.313 ug/L

RT: 12.763 min Scan# 1

Delta R.T. -0.000 min

Lab File: VW031637.D

Acq: 29 Jan 2025 13:30

Instrument :

MSVOA_W

ClientSampleId :

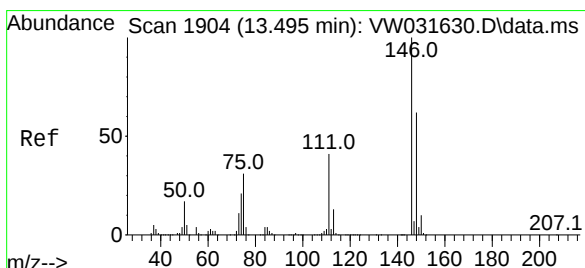
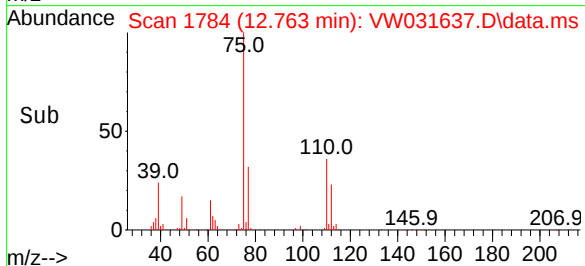
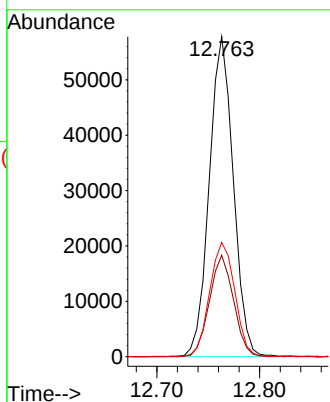
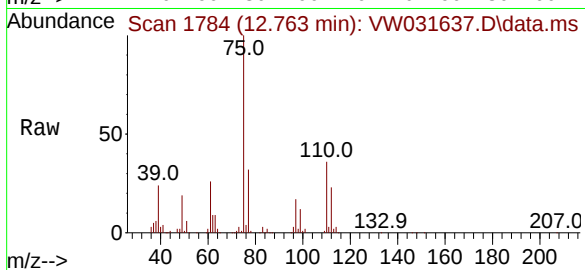
Tgt Ion: 75 Resp: 93856

Ion Ratio Lower Upper

75 100

77 31.8 26.2 39.2

110 37.2 29.6 44.4



#64

1,3-Dichlorobenzene

Concen: 8.768 ug/L

RT: 13.495 min Scan# 1904

Delta R.T. -0.000 min

Lab File: VW031637.D

Acq: 29 Jan 2025 13:30

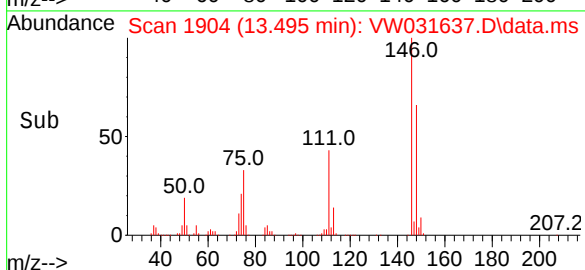
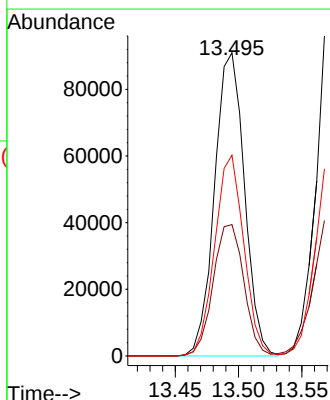
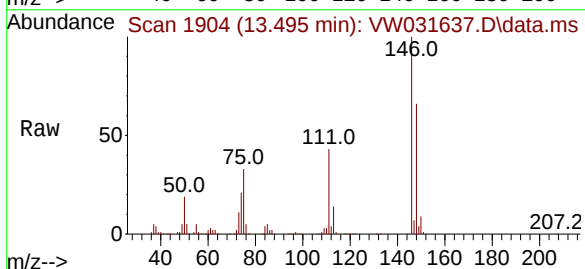
Tgt Ion:146 Resp: 149480

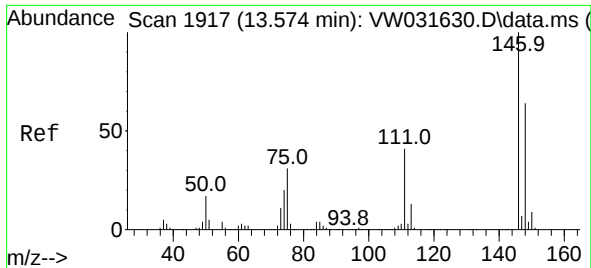
Ion Ratio Lower Upper

146 100

111 43.3 30.4 56.5

148 66.2 42.1 78.1





#65

1,4-Dichlorobenzene

Concen: 8.707 ug/L

RT: 13.568 min Scan# 1916

Delta R.T. -0.006 min

Lab File: VW031637.D

Acq: 29 Jan 2025 13:30

Instrument :

MSVOA_W

ClientSampleId :

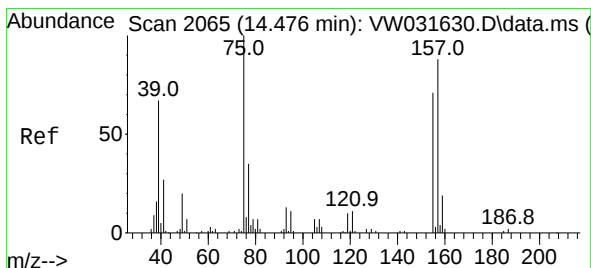
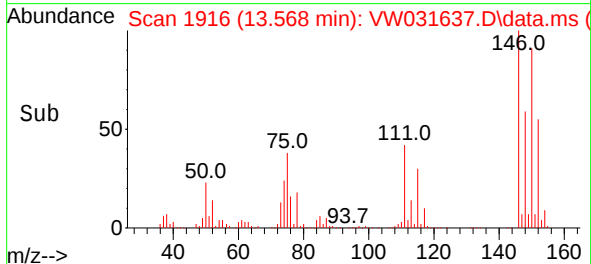
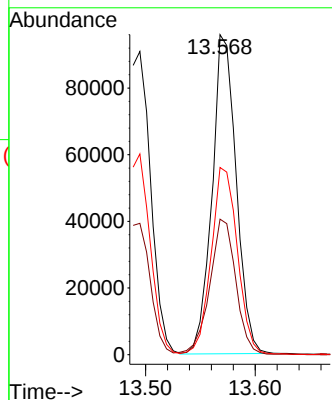
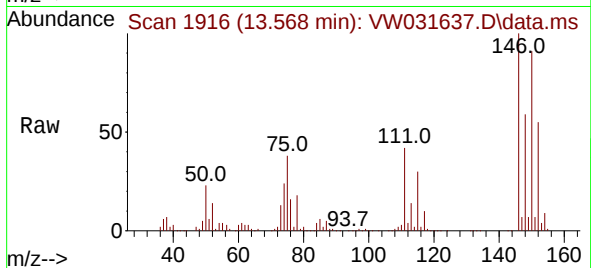
Tgt Ion:146 Resp: 146808

Ion Ratio Lower Upper

146 100

111 42.4 28.5 52.9

148 58.5 45.4 84.4



#68

1,2-Dibromo-3-chloropropane

Concen: 5.799 ug/L

RT: 14.476 min Scan# 2065

Delta R.T. -0.000 min

Lab File: VW031637.D

Acq: 29 Jan 2025 13:30

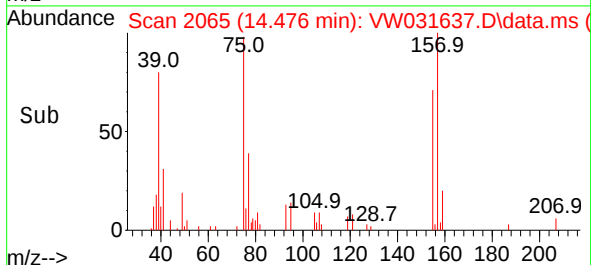
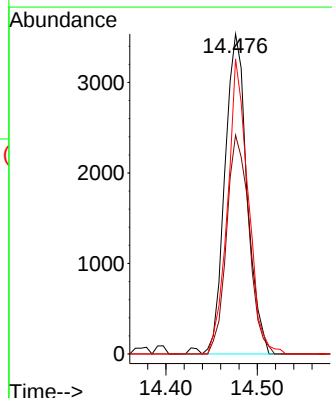
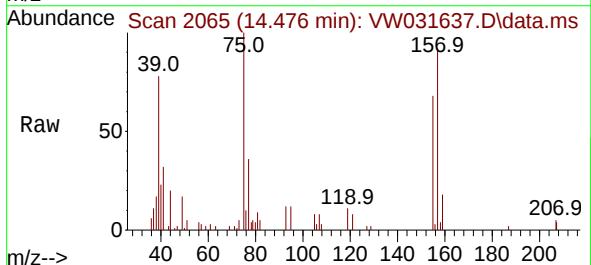
Tgt Ion: 75 Resp: 5990

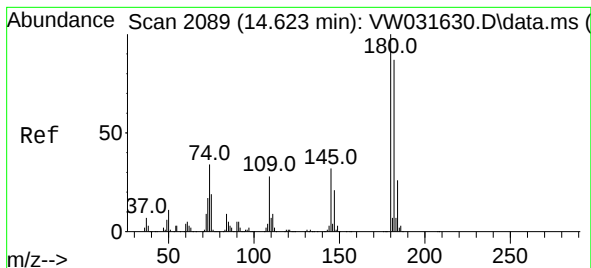
Ion Ratio Lower Upper

75 100

155 68.4 51.0 76.4

157 92.2 70.2 105.2





#69

1,3,5-Trichlorobenzene

Concen: 4.119 ug/L

RT: 15.122 min Scan# 2171

Delta R.T. 0.500 min

Lab File: VW031637.D

Acq: 29 Jan 2025 13:30

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion:180 Resp: 47583

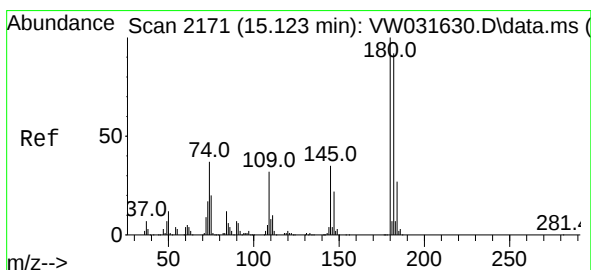
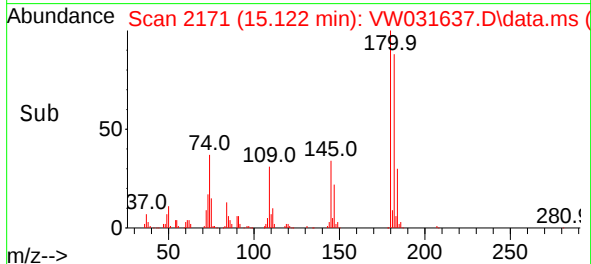
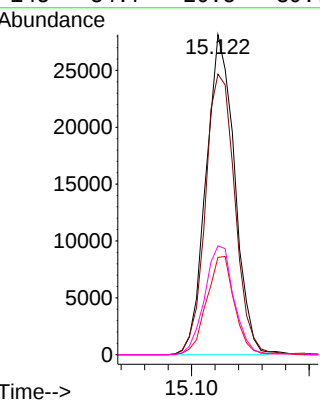
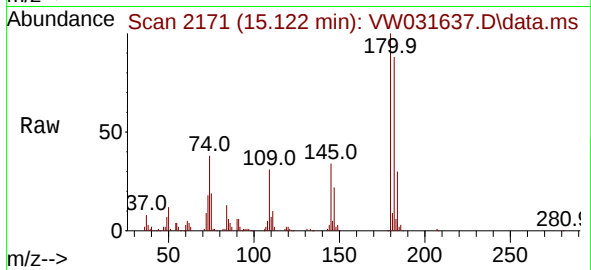
Ion Ratio Lower Upper

180 100

182 91.0 74.2 111.4

184 29.9 23.0 34.4

145 34.7 26.5 39.7



#70

1,2,4-trichlorobenzene

Concen: 5.171 ug/L

RT: 15.122 min Scan# 2171

Delta R.T. -0.000 min

Lab File: VW031637.D

Acq: 29 Jan 2025 13:30

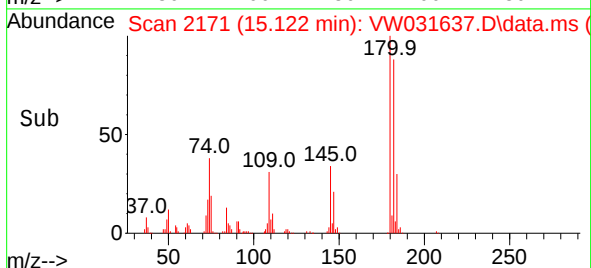
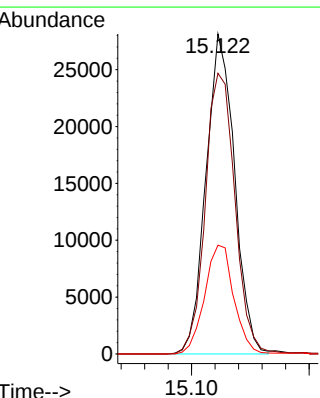
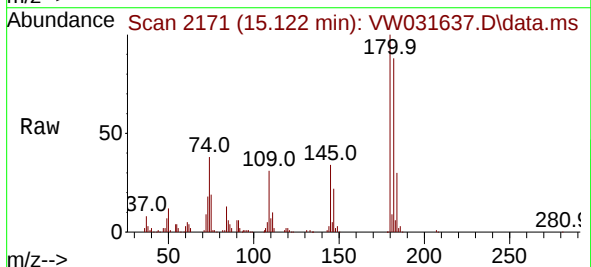
Tgt Ion:180 Resp: 47583

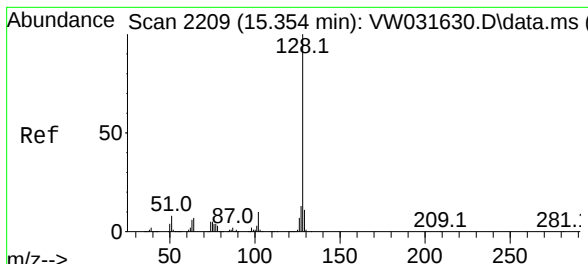
Ion Ratio Lower Upper

180 100

182 91.0 77.7 116.5

145 34.7 26.6 39.8





#71
 Naphthalene
 Concen: 19.055 ug/L
 RT: 15.360 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VW031637.D
 Acq: 29 Jan 2025 13:30

Instrument :
 MSVOA_W
 ClientSampleId :

Tgt Ion:128 Resp: 328786

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.4	15.6
129	10.7	8.7	13.1

