

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW013025\
 Data File : VW031663.D
 Acq On : 30 Jan 2025 17:46
 Operator : SY/MD
 Sample : Q1189-14RE
 Misc : 16.06g/10mL/MSVOA_W/SOIL/B
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Jan 31 07:36:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM011025SMA.M
 Quant Title : SFAM01.0
 QLast Update : Fri Jan 31 07:33:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	0.000	114	0	0.000	ug/L	-8.84
28) Chlorobenzene-d5	11.623	117	39	25.000	ug/L	# 0.00
58) 1,4-Dichlorobenzene-d4	13.538	152	83	25.000	ug/L	-0.02
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.253	65	61	0.000	ug/L	-0.11
Spiked Amount	25.000	Range	30 - 150	Recovery	=	0.000%#
7) Chloroethane-d5	2.911	69	47	0.000	ug/L	0.02
Spiked Amount	25.000	Range	30 - 150	Recovery	=	0.000%#
11) 1,1-Dichloroethene-d2	0.000	65	0	0.000	ug/L	
Spiked Amount	25.000	Range	45 - 110	Recovery	=	0.000%#
21) 2-Butanone-d5	0.000	46	0	0.000	ug/L	
Spiked Amount	50.000	Range	20 - 135	Recovery	=	0.000%#
24) Chloroform-d	0.000	84	0	0.000	ug/L	
Spiked Amount	25.000	Range	40 - 150	Recovery	=	0.000%#
26) 1,2-Dichloroethane-d4	8.337	65	57	0.000	ug/L	0.04
Spiked Amount	25.000	Range	70 - 130	Recovery	=	0.000%#
32) Benzene-d6	0.000	84	0	0.000	ug/L	
Spiked Amount	25.000	Range	20 - 135	Recovery	=	0.000%#
36) 1,2-Dichloropropane-d6	9.282	67	224	309.691	ug/L	0.01
Spiked Amount	25.000	Range	70 - 120	Recovery	=	1238.760%#
41) Toluene-d8	10.386	98	45	20.349	ug/L	0.07
Spiked Amount	25.000	Range	30 - 130	Recovery	=	81.400%
43) trans-1,3-Dichloroprop...	10.569	79	53	178.437	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	713.760%#
47) 2-Hexanone-d5	10.922	63	71	961.889	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	1923.780%#
56) 1,1,2,2-Tetrachloroeth...	12.879	84	276	623.975	ug/L	0.20
Spiked Amount	25.000	Range	45 - 120	Recovery	=	2495.920%#
66) 1,2-Dichlorobenzene-d4	13.647	152	93	31.946	ug/L	-0.20
Spiked Amount	25.000	Range	75 - 120	Recovery	=	127.800%#
Target Compounds						
					Qvalue	
29) Cyclohexane	7.971	56	24	19.200	ug/L #	1
34) Trichloroethene	9.081	95	105	146.317	ug/L #	7
35) Methylcyclohexane	9.325	83	62	48.190	ug/L #	17
38) Bromodichloromethane	9.636	83	94	115.836	ug/L #	26
40) 4-Methyl-2-pentanone	10.215	43	125	373.289	ug/L #	44
42) Toluene	10.380	91	175	62.721	ug/L #	22
44) trans-1,3-Dichloropropene	10.843	75	19	22.524	ug/L #	1
45) 1,1,2-Trichloroethane	10.788	97	194	451.149	ug/L #	63
46) Tetrachloroethene	10.703	164	42	81.559	ug/L #	1
48) 2-Hexanone	10.977	43	98	478.909	ug/L #	1
49) Dibromochloromethane	11.257	129	124	262.082	ug/L	78
50) 1,2-Dibromoethane	11.239	107	40	100.367	ug/L #	38
51) Chlorobenzene	11.672	112	89	51.657	ug/L #	1
52) Ethylbenzene	11.733	91	201	62.785	ug/L	85
53) m,p-Xylene	11.855	106	169	138.449	ug/L	84
54) o-Xylene	12.148	106	71	62.587	ug/L	97
55) Styrene	12.166	104	149	78.935	ug/L #	11
57) 1,1,2,2-Tetrachloroethane	12.714	83	92	194.707	ug/L #	61
59) Bromoform	12.355	173	372	336.357	ug/L #	82

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

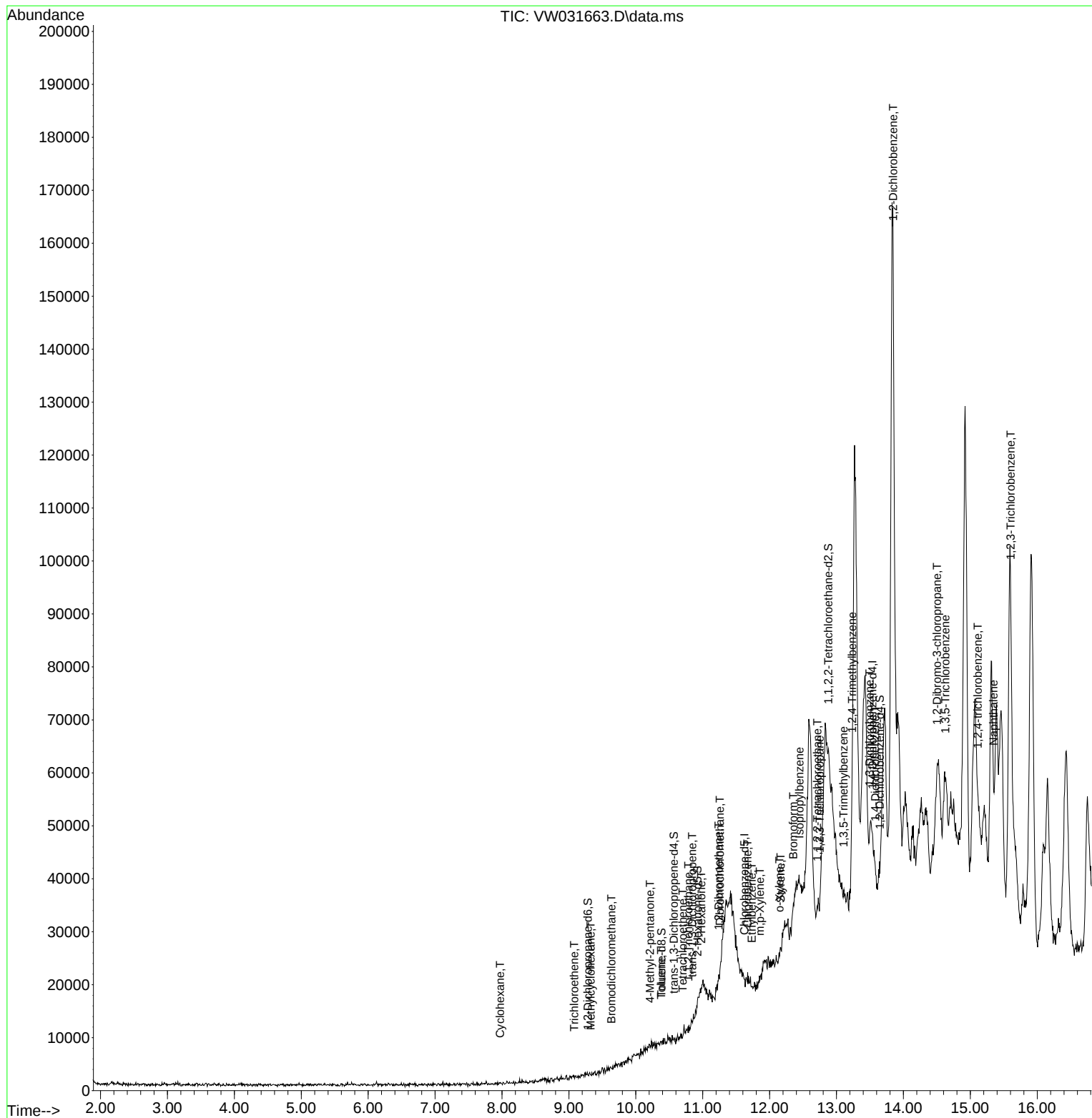
60) Isopropylbenzene	12.446	105	211	14.552	ug/L #	1
61) 1,2,3-Trichloropropane	12.751	75	41	26.305	ug/L #	1
62) 1,3,5-Trimethylbenzene	13.105	105	233	19.516	ug/L	87
63) 1,2,4-Trimethylbenzene	13.233	105	299	25.731	ug/L	96
64) 1,3-Dichlorobenzene	13.495	146	67	11.651	ug/L #	1
65) 1,4-Dichlorobenzene	13.580	146	162	28.483	ug/L #	1
67) 1,2-Dichlorobenzene	13.848	146	44	8.960	ug/L #	1
68) 1,2-Dibromo-3-chloropr...	14.501	75	1732	4970.339	ug/L #	69
69) 1,3,5-Trichlorobenzene	14.629	180	189	48.497	ug/L #	19
70) 1,2,4-trichlorobenzene	15.110	180	212	68.297	ug/L #	22
71) Naphthalene	15.348	128	79	13.573	ug/L #	1
72) 1,2,3-Trichlorobenzene	15.604	180	26	9.945	ug/L #	1

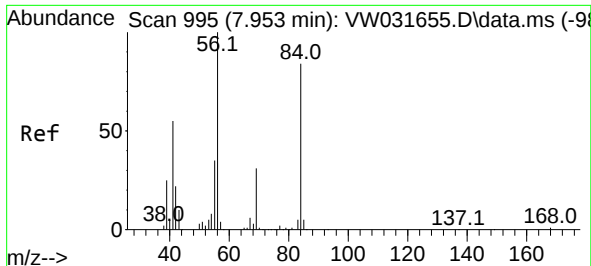
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#29

Cyclohexane

Concen: 19.200 ug/L

RT: 7.971 min Scan# 995

Delta R.T. 0.018 min

Lab File: VW031663.D

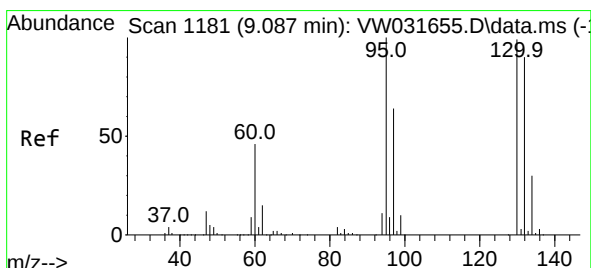
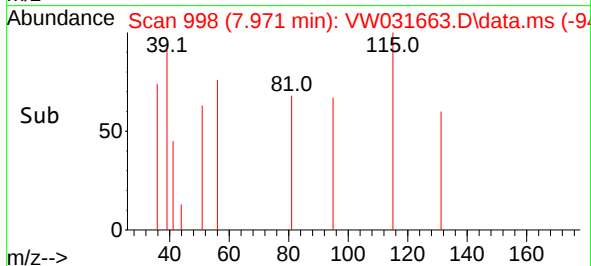
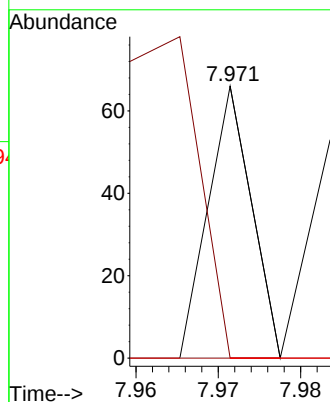
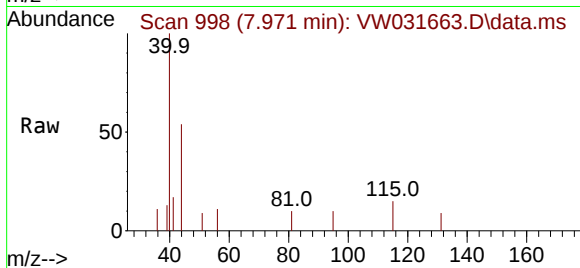
Acq: 30 Jan 2025 17:46

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion: 56	Resp:	24
Ion Ratio	Lower	Upper
56	100	
69	229.2	25.2 37.8#
84	0.0	66.3 99.5#



#34

Trichloroethene

Concen: 146.317 ug/L

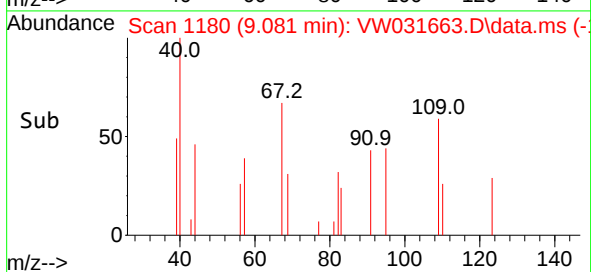
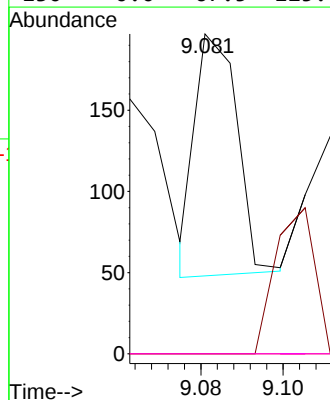
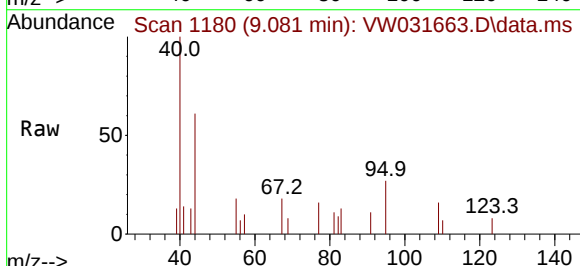
RT: 9.081 min Scan# 1180

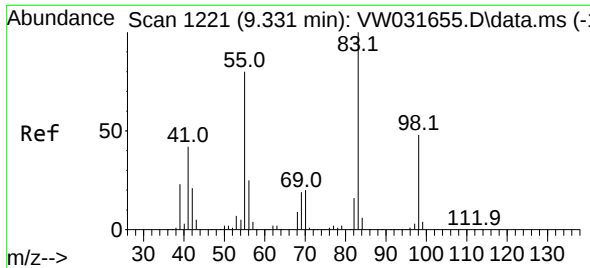
Delta R.T. -0.006 min

Lab File: VW031663.D

Acq: 30 Jan 2025 17:46

Tgt Ion: 95	Resp:	105
Ion Ratio	Lower	Upper
95	100	
97	0.0	44.0 81.6#
132	0.0	64.6 120.0#
130	0.0	67.5 125.4#

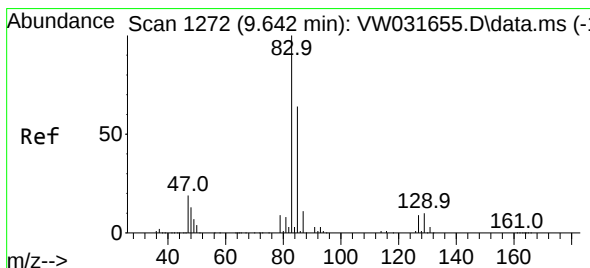
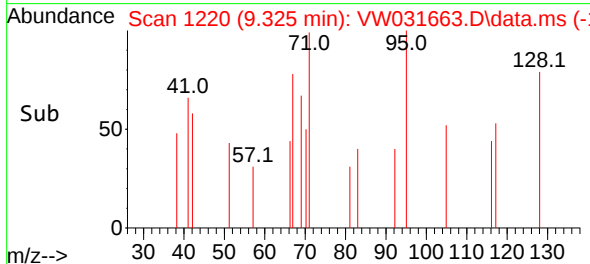
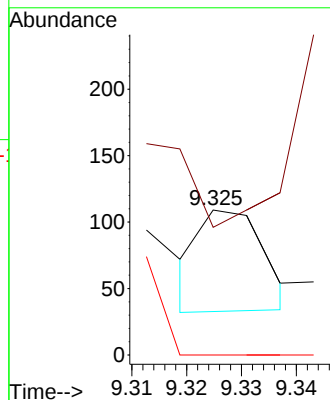
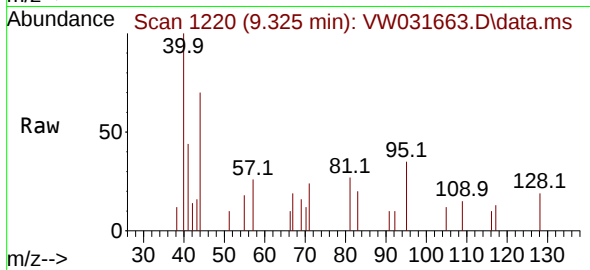




#35
Methylcyclohexane
Concen: 48.190 ug/L
RT: 9.325 min Scan# 11
Delta R.T. -0.006 min
Lab File: VW031663.D
Acq: 30 Jan 2025 17:46

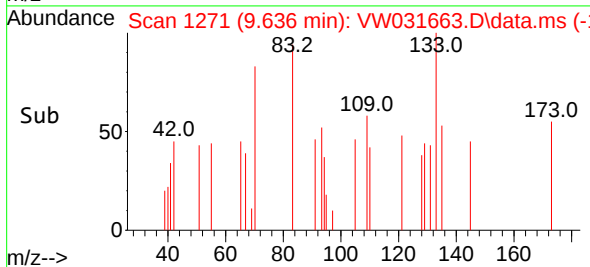
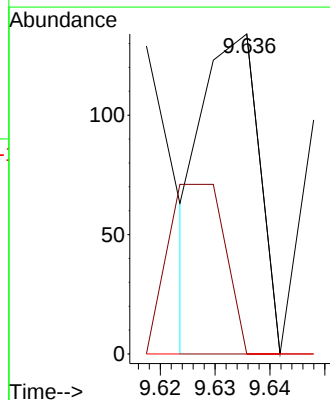
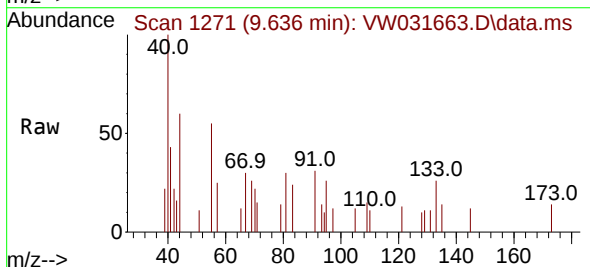
Instrument :
MSVOA_W
ClientSampleId :

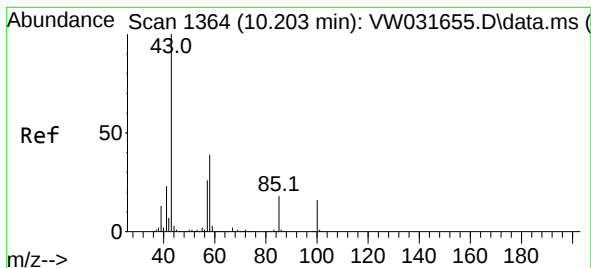
Tgt Ion: 83 Resp: 62
Ion Ratio Lower Upper
83 100
55 0.0 63.4 95.2#
98 0.0 38.8 58.2#



#38
Bromodichloromethane
Concen: 115.836 ug/L
RT: 9.636 min Scan# 1271
Delta R.T. -0.006 min
Lab File: VW031663.D
Acq: 30 Jan 2025 17:46

Tgt Ion: 83 Resp: 94
Ion Ratio Lower Upper
83 100
85 0.0 43.8 81.3#
127 0.0 6.2 9.4#





#40

4-Methyl-2-pentanone

Concen: 373.289 ug/L

RT: 10.215 min Scan# 1366

Delta R.T. 0.012 min

Lab File: VW031663.D

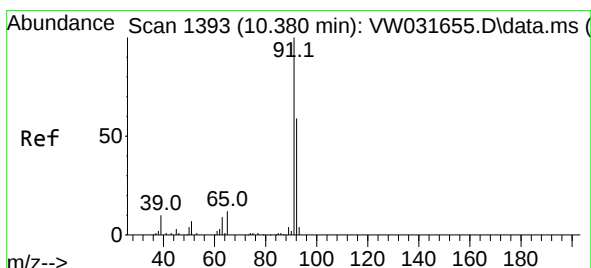
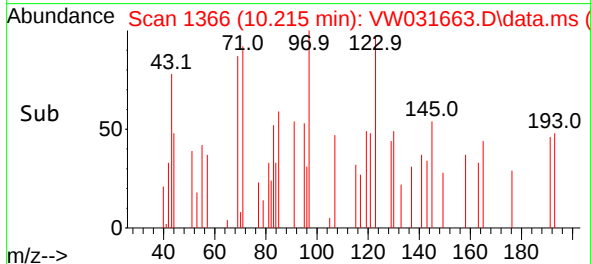
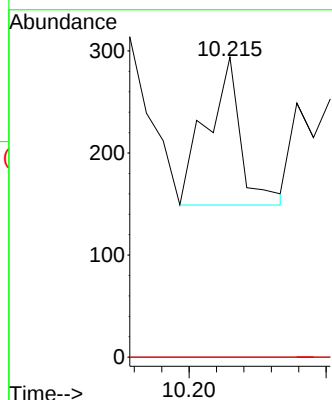
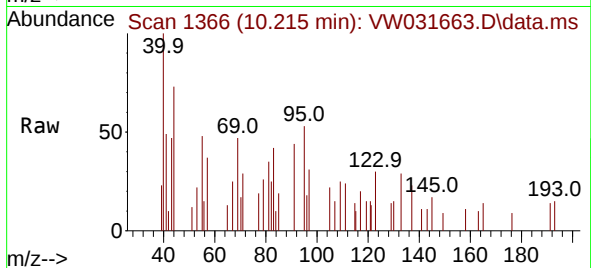
Acq: 30 Jan 2025 17:46

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion: 43	Resp:	125
Ion Ratio	Lower	Upper
43	100	
58	0.0	31.4 47.2#
100	0.0	12.3 18.5#



#42

Toluene

Concen: 62.721 ug/L

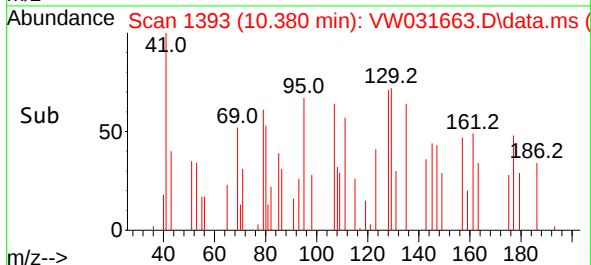
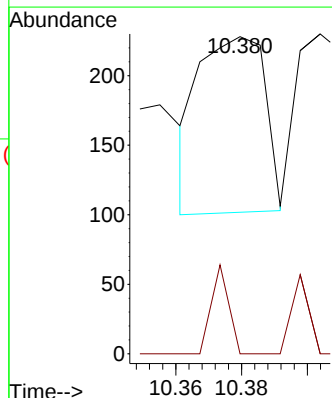
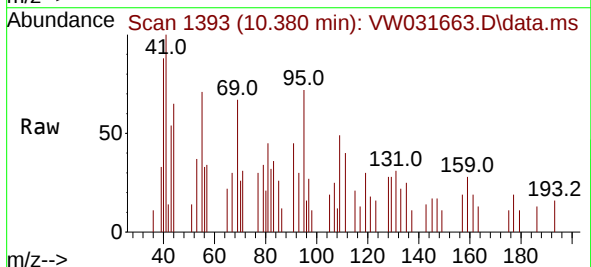
RT: 10.380 min Scan# 1393

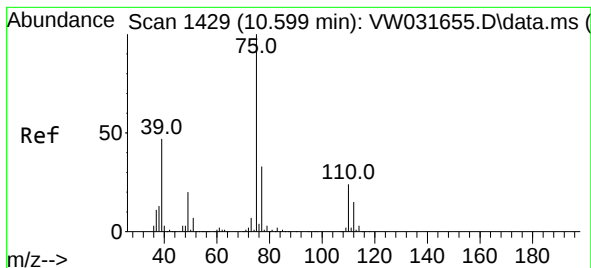
Delta R.T. 0.000 min

Lab File: VW031663.D

Acq: 30 Jan 2025 17:46

Tgt Ion: 91	Resp:	175
Ion Ratio	Lower	Upper
91	100	
92	0.0	40.6 75.4#

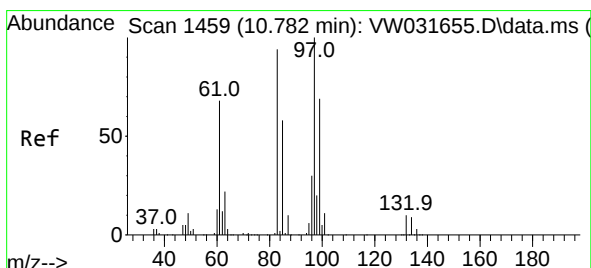
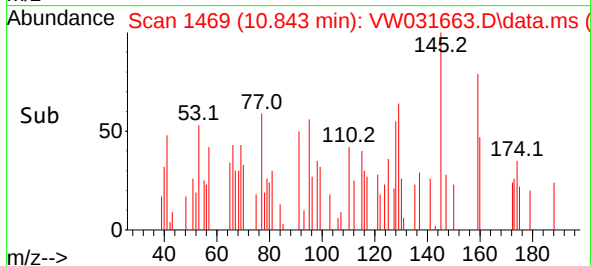
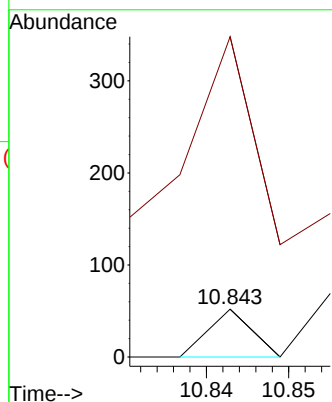
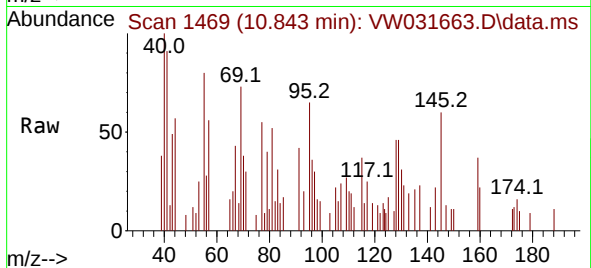




#44
trans-1,3-Dichloropropene
Concen: 22.524 ug/L
RT: 10.843 min Scan# 1429
Delta R.T. 0.244 min
Lab File: VW031663.D
Acq: 30 Jan 2025 17:46

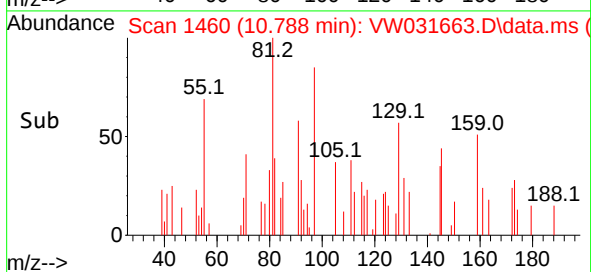
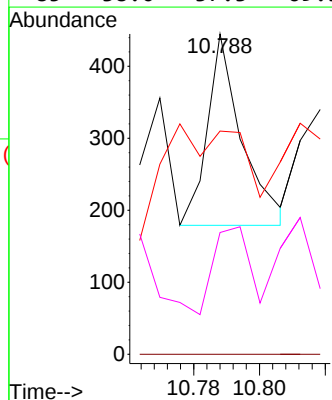
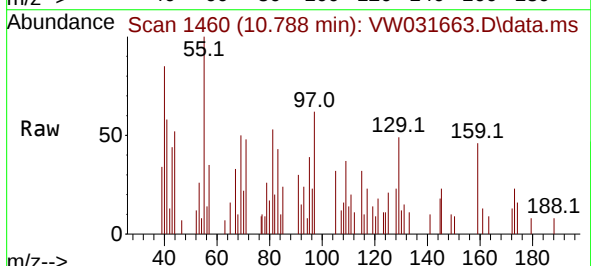
Instrument :
MSVOA_W
ClientSampleId :

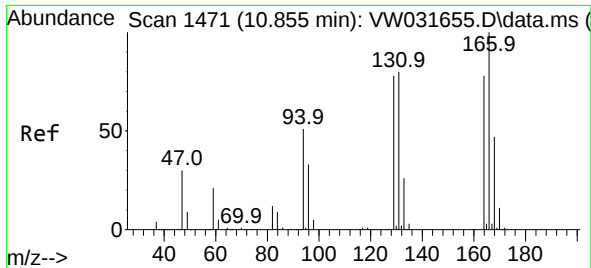
Tgt Ion: 75 Resp: 19
Ion Ratio Lower Upper
75 100
77 669.2 22.5 41.9#



#45
1,1,2-Trichloroethane
Concen: 451.149 ug/L
RT: 10.788 min Scan# 1460
Delta R.T. 0.006 min
Lab File: VW031663.D
Acq: 30 Jan 2025 17:46

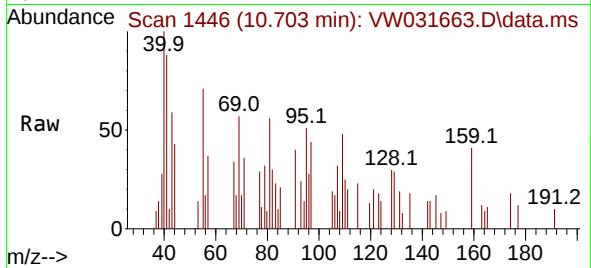
Tgt Ion: 97 Resp: 194
Ion Ratio Lower Upper
97 100
99 0.0 42.6 79.2#
83 69.7 59.6 110.8
85 38.0 37.3 69.3



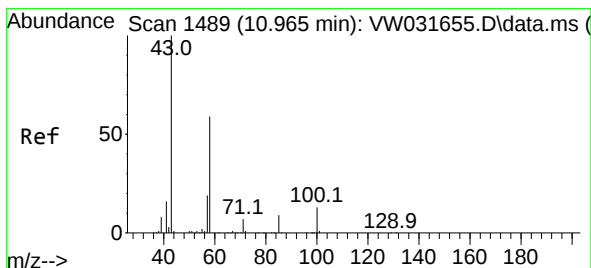
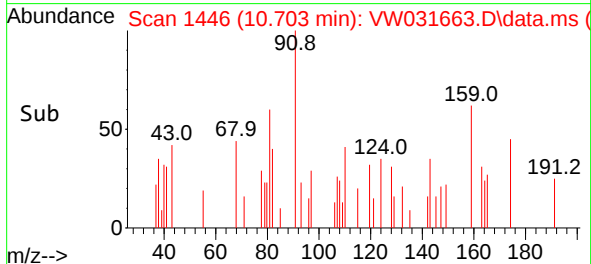
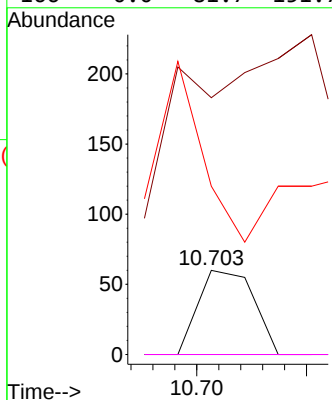


#46
Tetrachloroethene
Concen: 81.559 ug/L
RT: 10.703 min Scan# 1446
Delta R.T. -0.152 min
Lab File: VW031663.D
Acq: 30 Jan 2025 17:46

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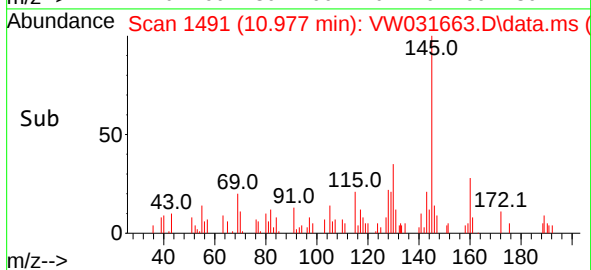
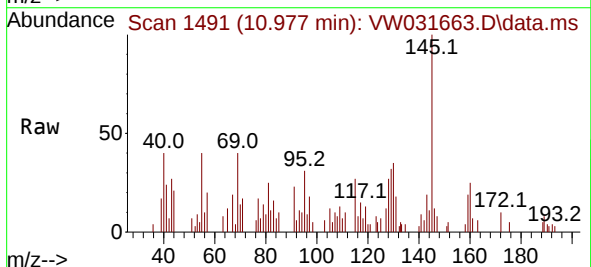
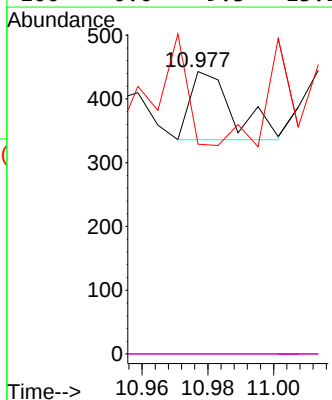


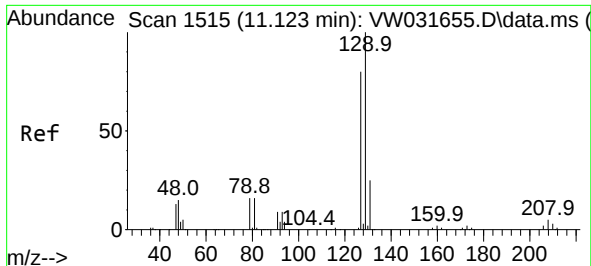
Tgt Ion:	164	Resp:	42
Ion	Ratio	Lower	Upper
164	100		
129	305.0	69.8	129.6#
131	200.0	63.1	117.1#
166	0.0	81.7	151.7#



#48
2-Hexanone
Concen: 478.909 ug/L
RT: 10.977 min Scan# 1491
Delta R.T. 0.012 min
Lab File: VW031663.D
Acq: 30 Jan 2025 17:46

Tgt Ion:	43	Resp:	98
Ion	Ratio	Lower	Upper
43	100		
58	0.0	44.8	67.2#
57	242.9	15.6	23.4#
100	0.0	9.3	13.9#

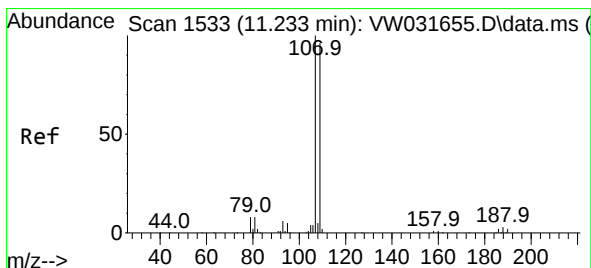
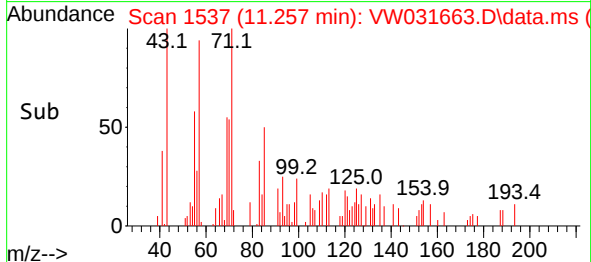
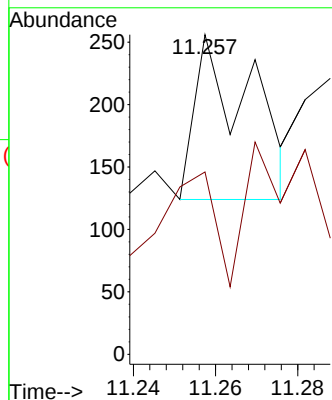
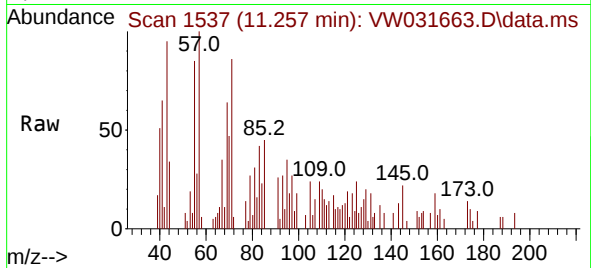




#49
Dibromochloromethane
Concen: 262.082 ug/L
RT: 11.257 min Scan# 1537
Delta R.T. 0.134 min
Lab File: VW031663.D
Acq: 30 Jan 2025 17:46

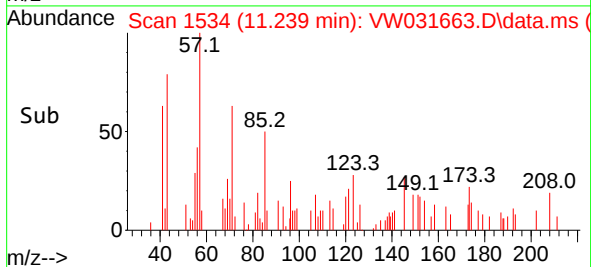
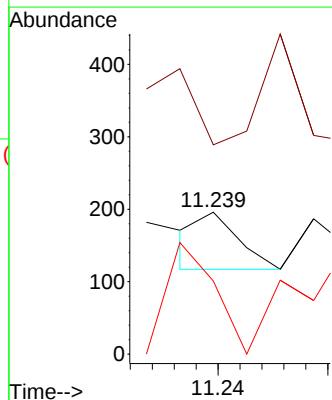
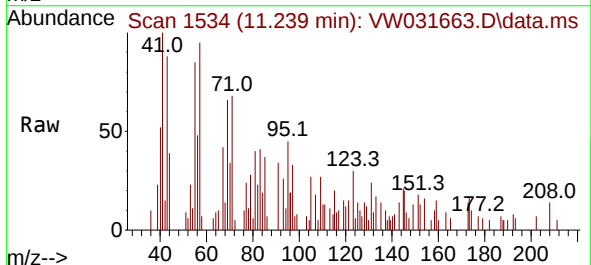
Instrument :
MSVOA_W
ClientSampleId :

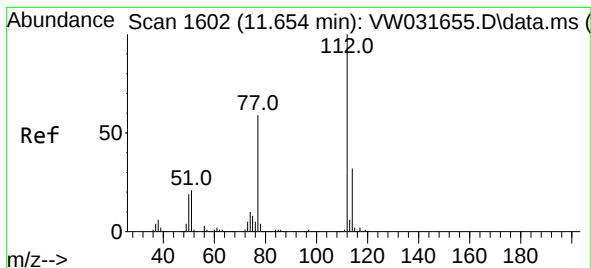
Tgt Ion:129 Resp: 124
Ion Ratio Lower Upper
129 100
127 57.0 53.0 98.4



#50
1,2-Dibromoethane
Concen: 100.367 ug/L
RT: 11.239 min Scan# 1534
Delta R.T. 0.006 min
Lab File: VW031663.D
Acq: 30 Jan 2025 17:46

Tgt Ion:107 Resp: 40
Ion Ratio Lower Upper
107 100
109 147.4 63.8 118.4#
188 51.5 2.6 3.8#





#51

Chlorobenzene

Concen: 51.657 ug/L

RT: 11.672 min Scan# 1

Delta R.T. 0.018 min

Lab File: VW031663.D

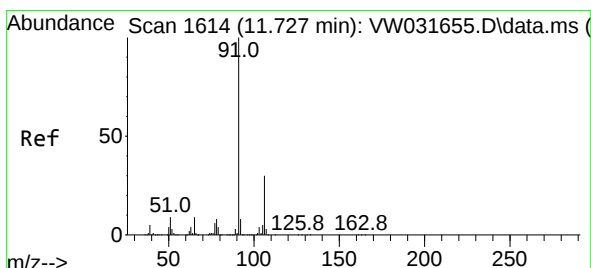
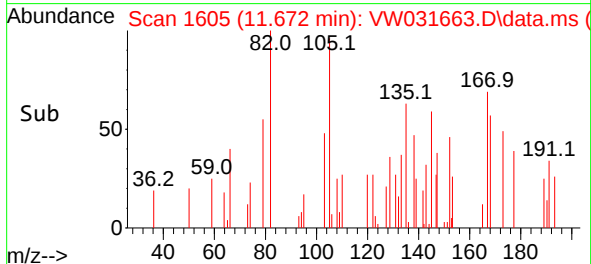
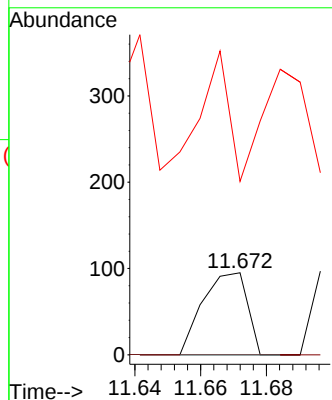
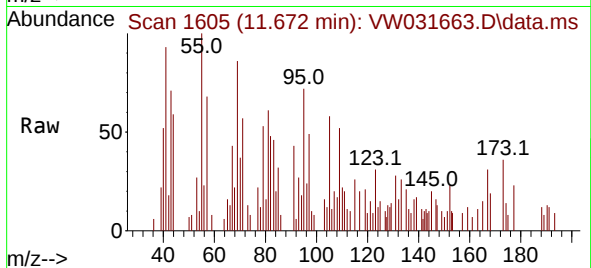
Acq: 30 Jan 2025 17:46

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion:	112	Resp:	89
Ion	Ratio	Lower	Upper
112	100		
114	0.0	22.0	40.8#
77	211.6	49.0	73.4#



#52

Ethylbenzene

Concen: 62.785 ug/L

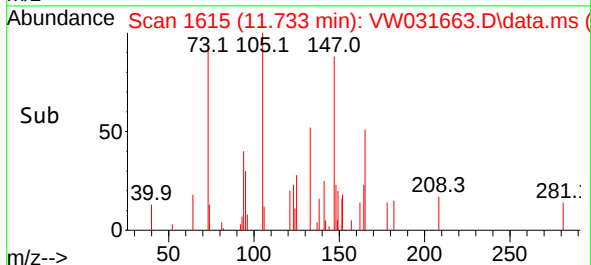
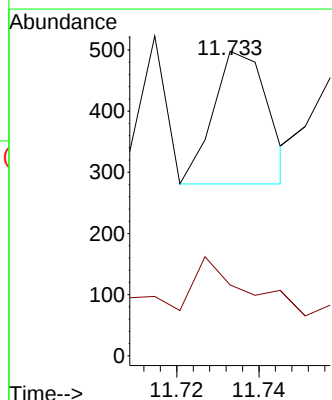
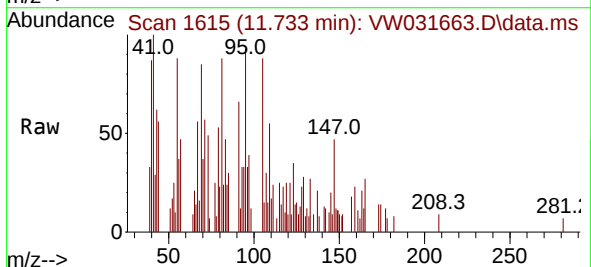
RT: 11.733 min Scan# 1615

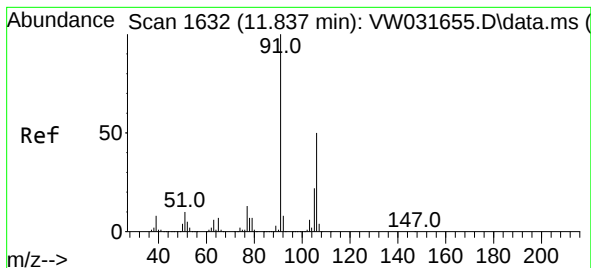
Delta R.T. 0.006 min

Lab File: VW031663.D

Acq: 30 Jan 2025 17:46

Tgt Ion:	91	Resp:	201
Ion	Ratio	Lower	Upper
91	100		
106	23.3	22.3	41.3





#53

m,p-Xylene

Concen: 138.449 ug/L

RT: 11.855 min Scan# 1

Delta R.T. 0.018 min

Lab File: VW031663.D

Acq: 30 Jan 2025 17:46

Instrument :

MSVOA_W

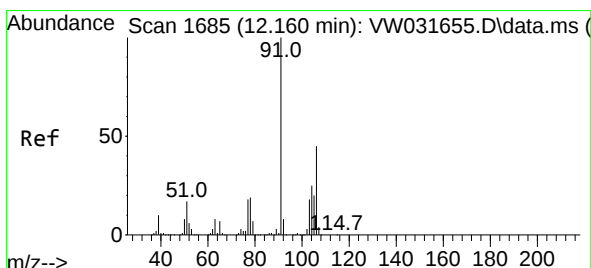
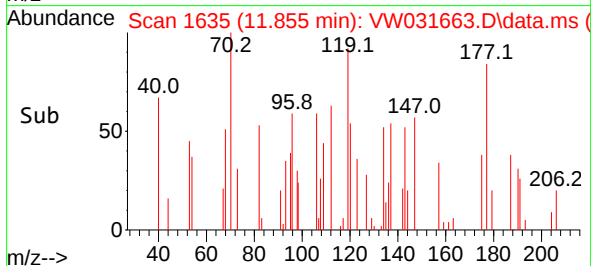
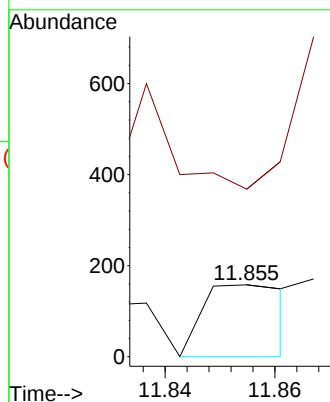
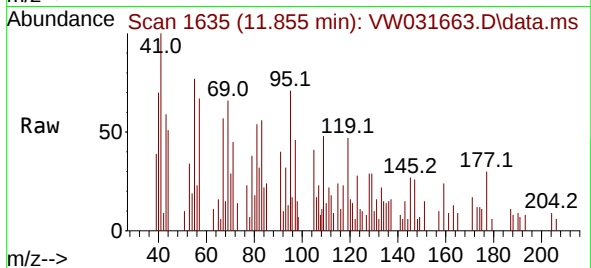
ClientSampleId :

Tgt Ion:106 Resp: 169

Ion Ratio Lower Upper

106 100

91 232.9 145.9 270.9



#54

o-Xylene

Concen: 62.587 ug/L

RT: 12.148 min Scan# 1683

Delta R.T. -0.012 min

Lab File: VW031663.D

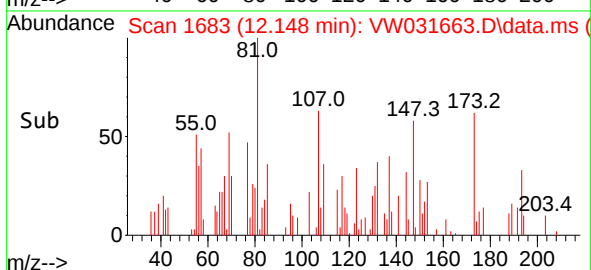
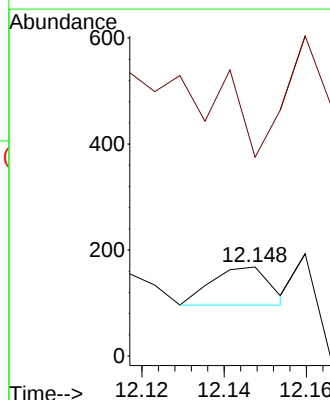
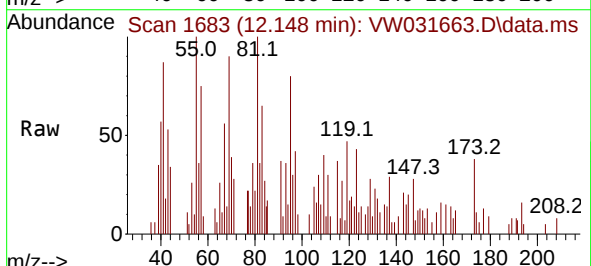
Acq: 30 Jan 2025 17:46

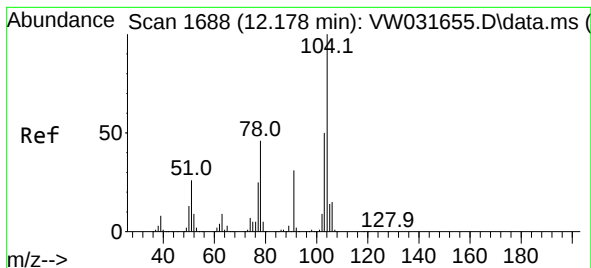
Tgt Ion:106 Resp: 71

Ion Ratio Lower Upper

106 100

91 223.2 152.9 284.1





#55

Styrene

Concen: 78.935 ug/L

RT: 12.166 min Scan# 1

Delta R.T. -0.012 min

Lab File: VW031663.D

Acq: 30 Jan 2025 17:46

Instrument :

MSVOA_W

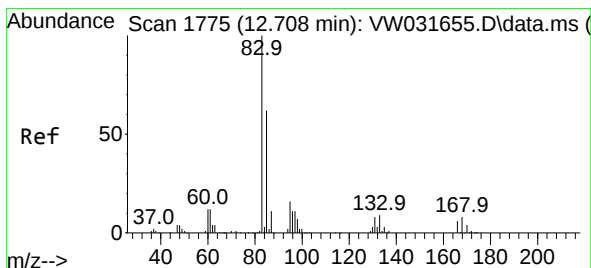
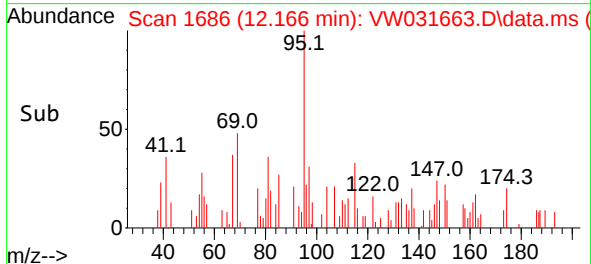
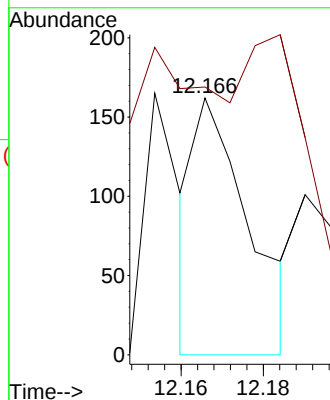
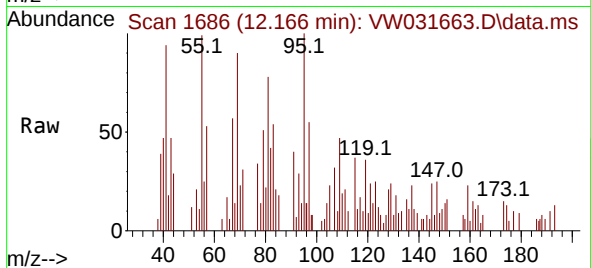
ClientSampleId :

Tgt Ion:104 Resp: 149

Ion Ratio Lower Upper

104 100

78 104.3 32.0 59.4#



#57

1,1,2,2-Tetrachloroethane

Concen: 194.707 ug/L

RT: 12.714 min Scan# 1776

Delta R.T. 0.006 min

Lab File: VW031663.D

Acq: 30 Jan 2025 17:46

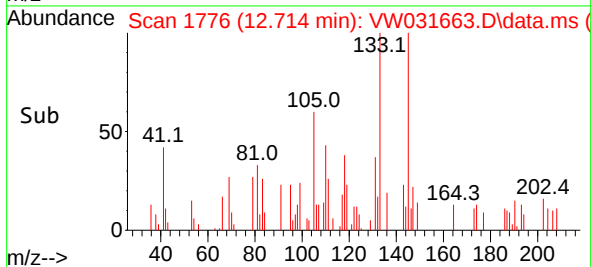
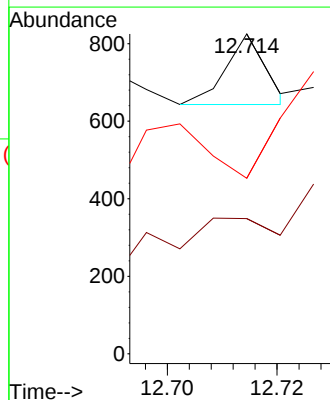
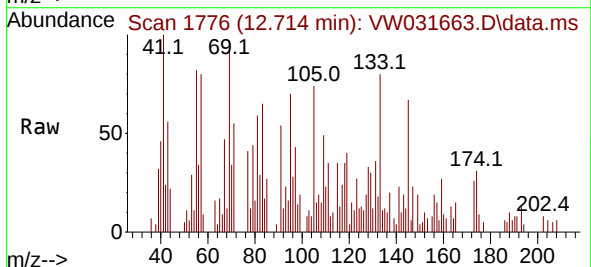
Tgt Ion: 83 Resp: 92

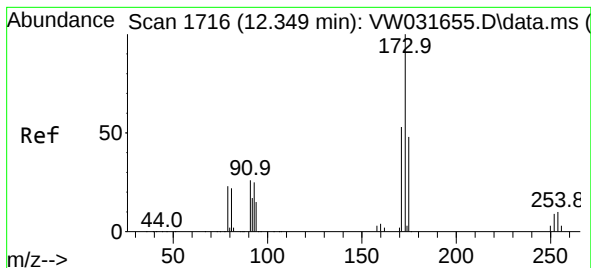
Ion Ratio Lower Upper

83 100

85 42.3 44.1 81.9#

131 54.9 7.4 11.0#





#59

Bromoform

Concen: 336.357 ug/L

RT: 12.355 min Scan# 1716

Delta R.T. 0.006 min

Lab File: VW031663.D

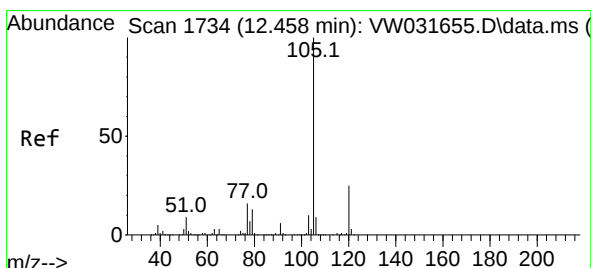
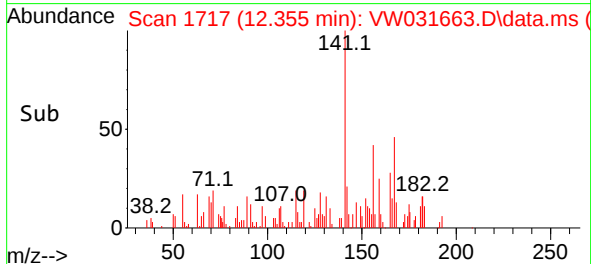
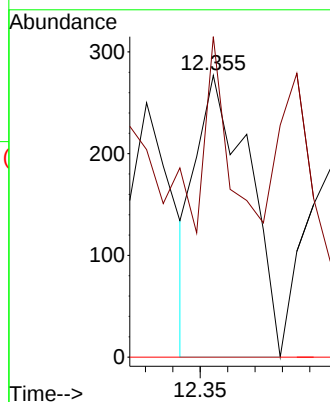
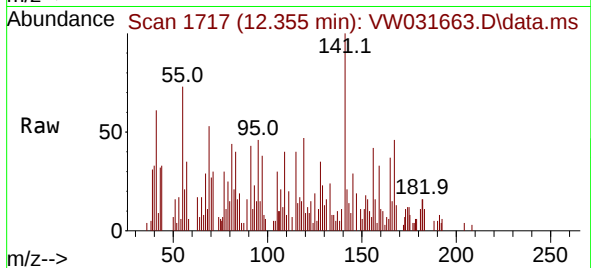
Acq: 30 Jan 2025 17:46

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion:173	Resp:	372
Ion Ratio	Lower	Upper
173	100	
175	58.6	37.7 56.5#
254	0.0	7.1 10.7#



#60

Isopropylbenzene

Concen: 14.552 ug/L

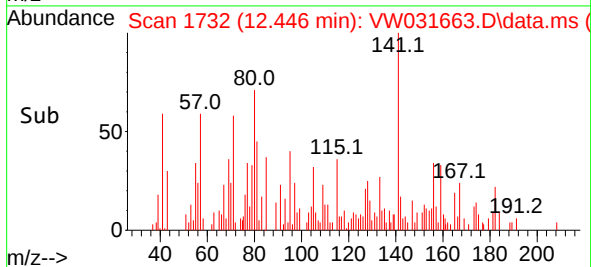
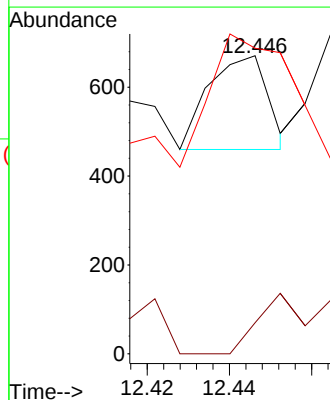
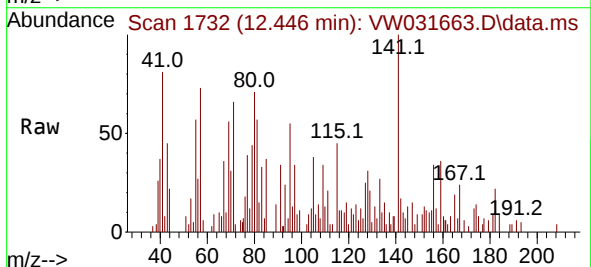
RT: 12.446 min Scan# 1732

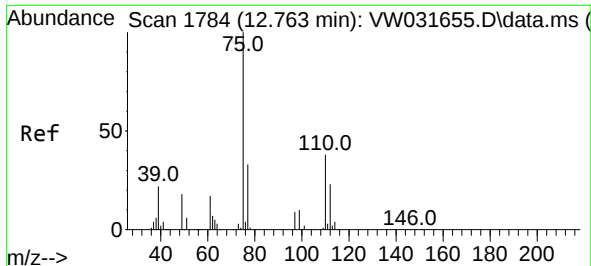
Delta R.T. -0.012 min

Lab File: VW031663.D

Acq: 30 Jan 2025 17:46

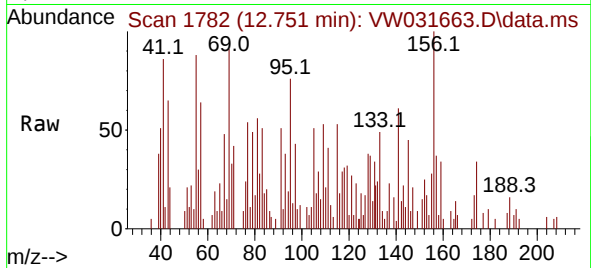
Tgt Ion:105	Resp:	211
Ion Ratio	Lower	Upper
105	100	
120	46.4	20.1 30.1#
77	195.3	12.7 19.1#



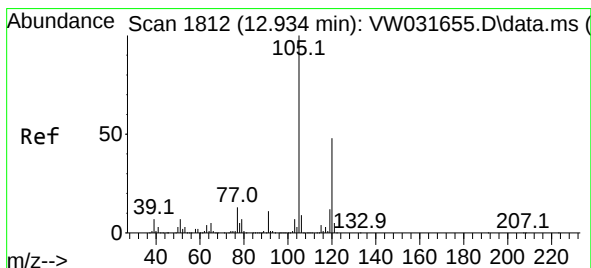
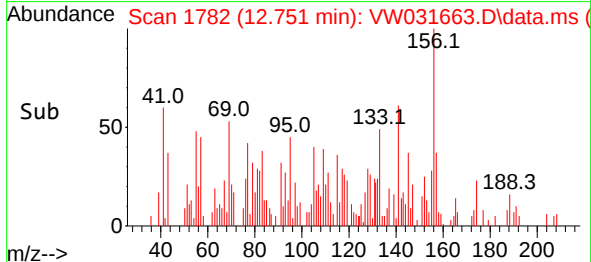
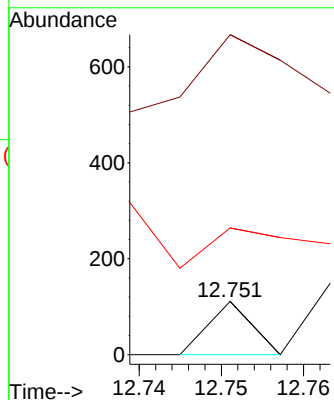


#61
1,2,3-Trichloropropane
Concen: 26.305 ug/L
RT: 12.751 min Scan# 11
Delta R.T. -0.012 min
Lab File: VW031663.D
Acq: 30 Jan 2025 17:46

Instrument :
MSVOA_W
ClientSampleId :

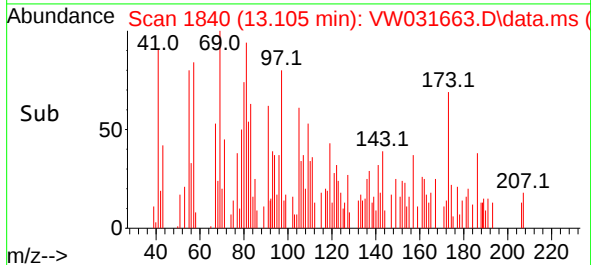
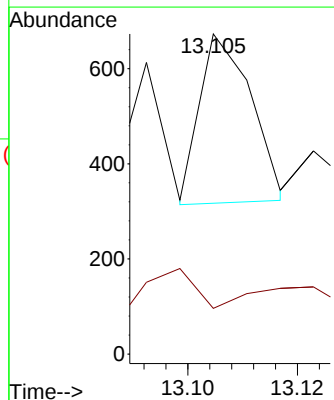
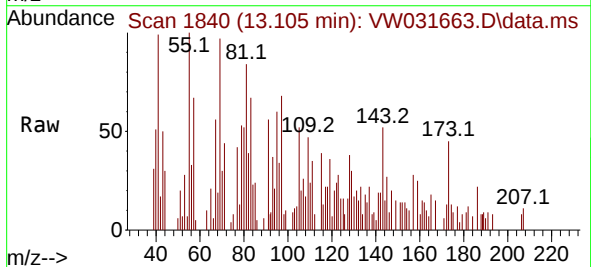


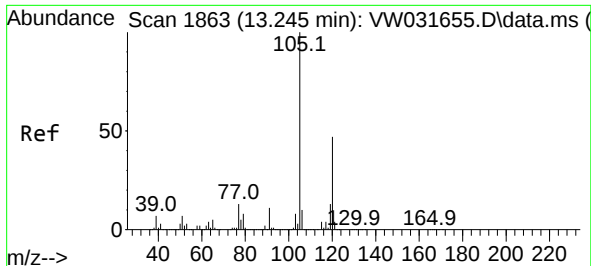
Tgt Ion: 75 Resp: 41
Ion Ratio Lower Upper
75 100
77 439.0 26.2 39.2#
110 253.7 29.6 44.4#



#62
1,3,5-Trimethylbenzene
Concen: 19.516 ug/L
RT: 13.105 min Scan# 1840
Delta R.T. 0.171 min
Lab File: VW031663.D
Acq: 30 Jan 2025 17:46

Tgt Ion:105 Resp: 233
Ion Ratio Lower Upper
105 100
120 38.6 37.6 56.4

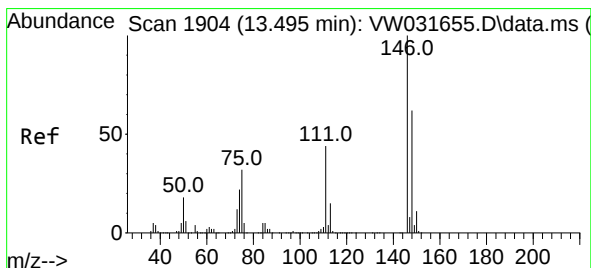
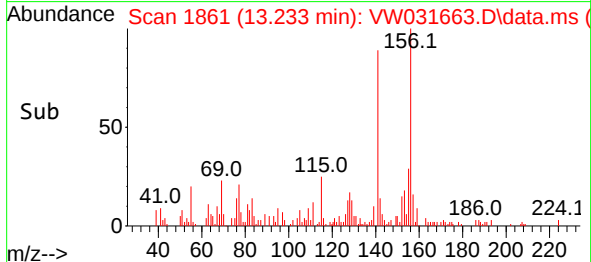
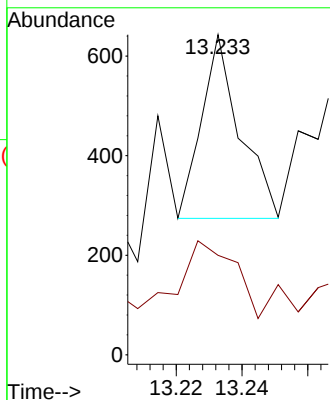
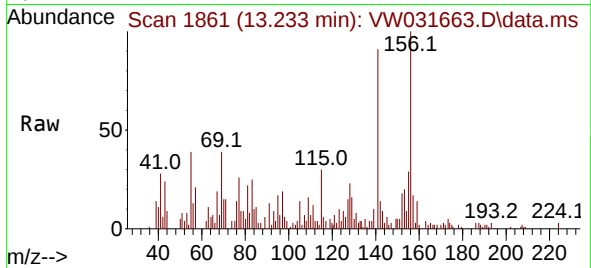




#63
1,2,4-Trimethylbenzene
Concen: 25.731 ug/L
RT: 13.233 min Scan# 1861
Delta R.T. -0.012 min
Lab File: VW031663.D
Acq: 30 Jan 2025 17:46

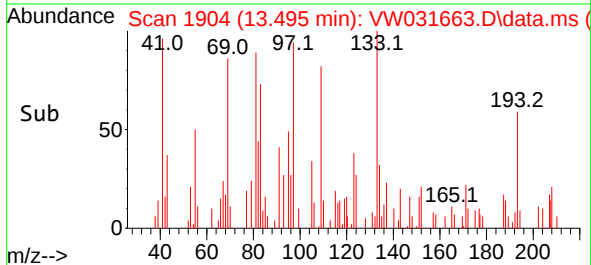
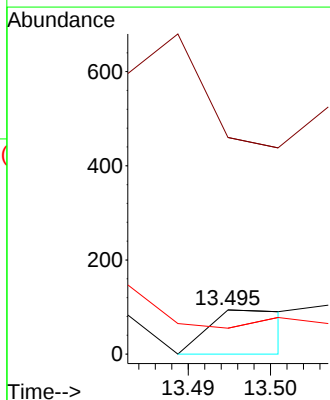
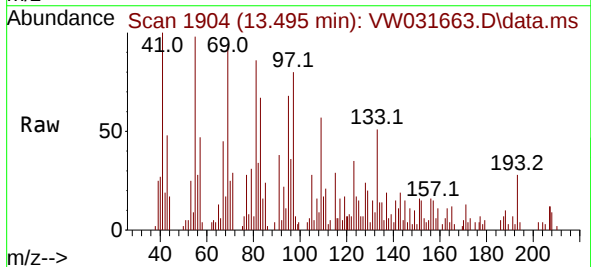
Instrument :
MSVOA_W
ClientSampleId :

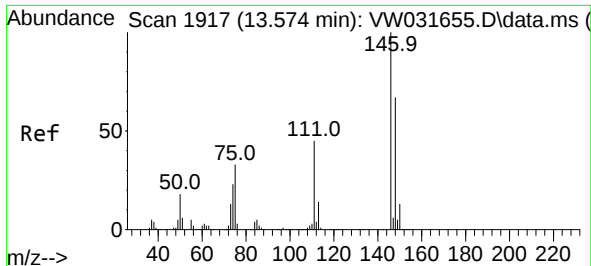
Tgt Ion:105 Resp: 299
Ion Ratio Lower Upper
105 100
120 48.2 36.3 54.5



#64
1,3-Dichlorobenzene
Concen: 11.651 ug/L
RT: 13.495 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VW031663.D
Acq: 30 Jan 2025 17:46

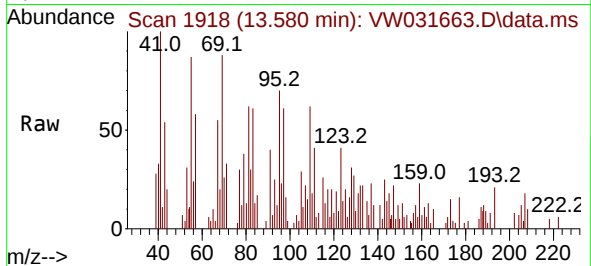
Tgt Ion:146 Resp: 67
Ion Ratio Lower Upper
146 100
111 489.4 30.4 56.5#
148 58.5 42.1 78.1



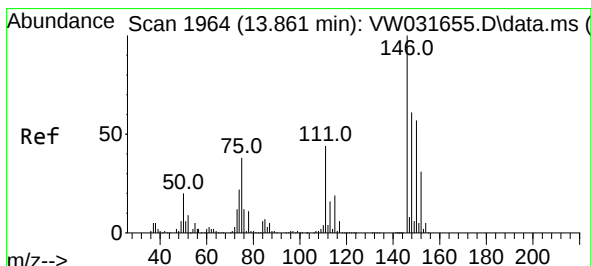
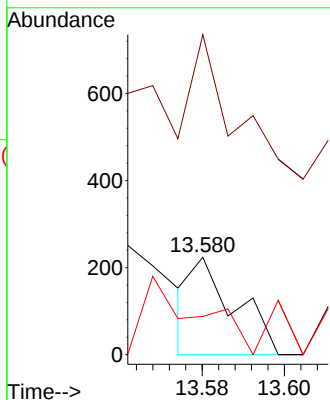
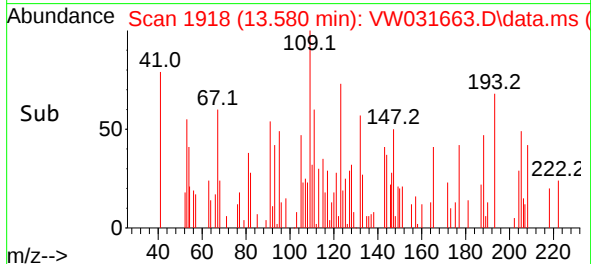


#65
1,4-Dichlorobenzene
Concen: 28.483 ug/L
RT: 13.580 min Scan# 1917
Delta R.T. 0.006 min
Lab File: VW031663.D
Acq: 30 Jan 2025 17:46

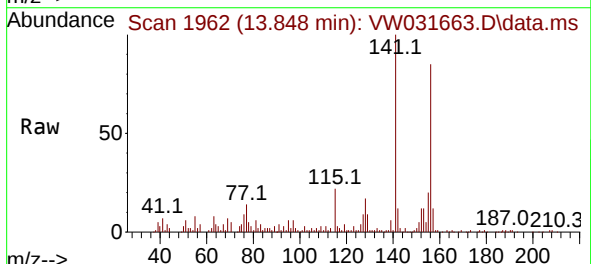
Instrument :
MSVOA_W
ClientSampleId :



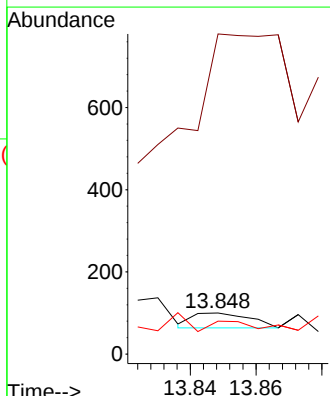
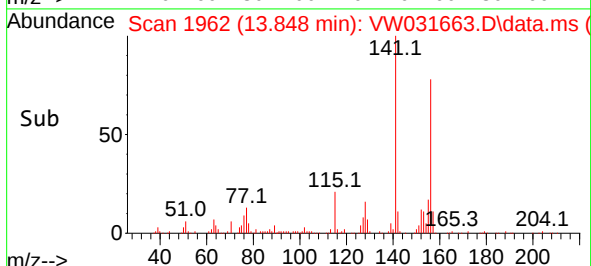
Tgt Ion:146 Resp: 162
Ion Ratio Lower Upper
146 100
111 328.1 28.5 52.9#
148 39.3 45.4 84.4#

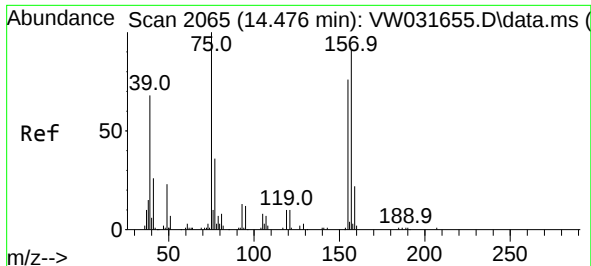


#67
1,2-Dichlorobenzene
Concen: 8.960 ug/L
RT: 13.848 min Scan# 1962
Delta R.T. -0.012 min
Lab File: VW031663.D
Acq: 30 Jan 2025 17:46



Tgt Ion:146 Resp: 44
Ion Ratio Lower Upper
146 100
111 779.0 36.6 55.0#
148 80.0 51.0 76.4#

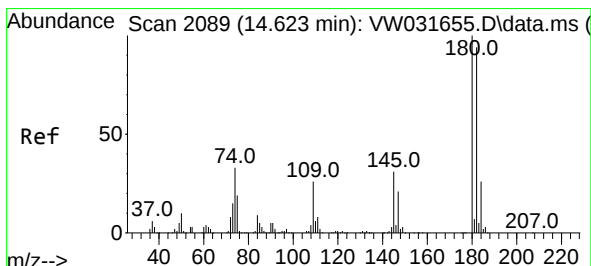
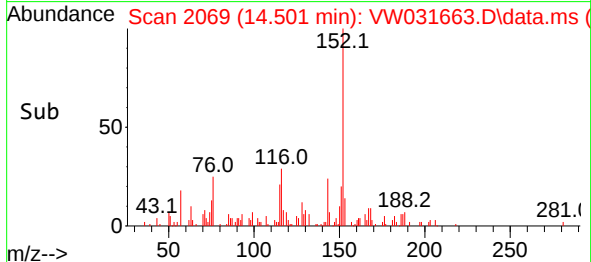
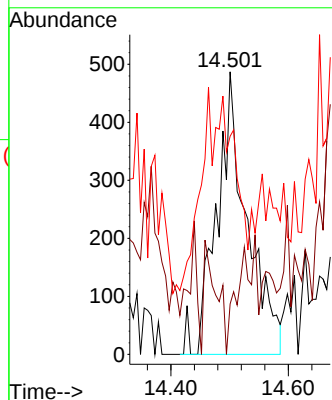
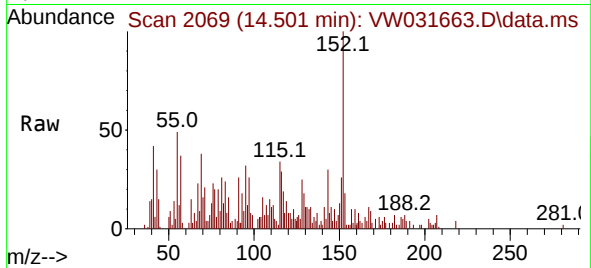




#68
1,2-Dibromo-3-chloropropane
Concen: 4970.339 ug/L
RT: 14.501 min Scan# 2069
Delta R.T. 0.024 min
Lab File: VW031663.D
Acq: 30 Jan 2025 17:46

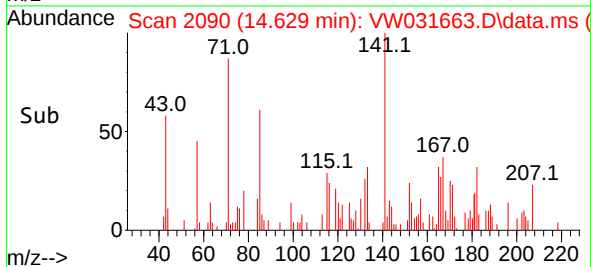
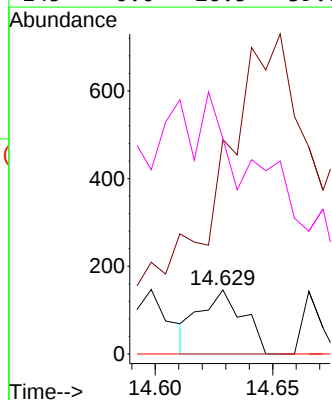
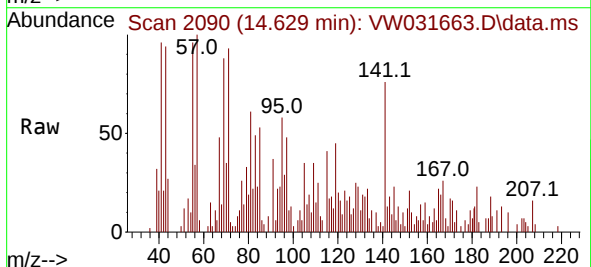
Instrument :
MSVOA_W
ClientSampleId :

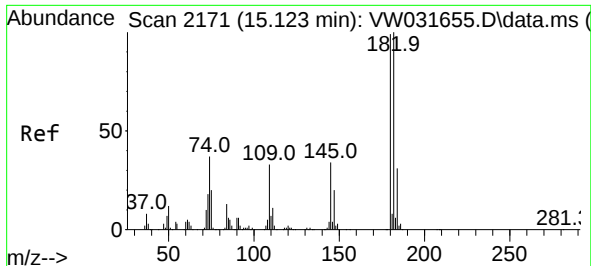
Tgt Ion: 75 Resp: 1732
Ion Ratio Lower Upper
75 100
155 17.9 51.0 76.4#
157 77.2 70.2 105.2



#69
1,3,5-Trichlorobenzene
Concen: 48.497 ug/L
RT: 14.629 min Scan# 2090
Delta R.T. 0.006 min
Lab File: VW031663.D
Acq: 30 Jan 2025 17:46

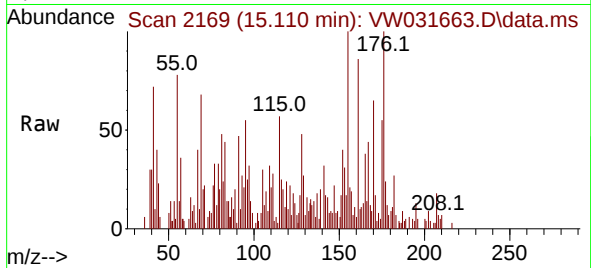
Tgt Ion:180 Resp: 189
Ion Ratio Lower Upper
180 100
182 0.0 74.2 111.4#
184 0.0 23.0 34.4#
145 0.0 26.5 39.7#



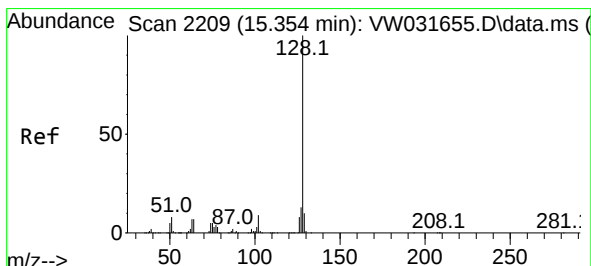
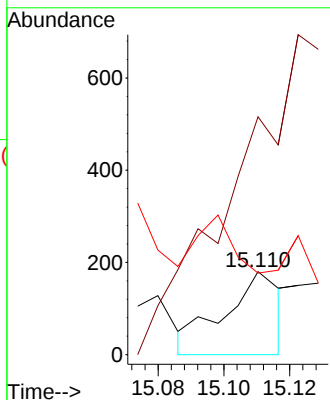
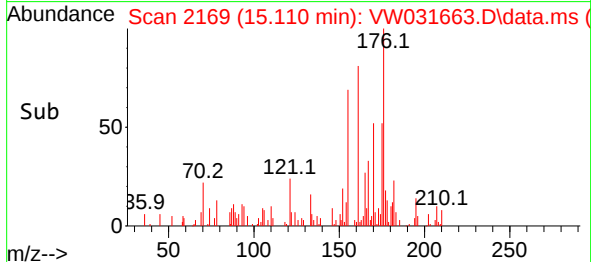


#70
1,2,4-trichlorobenzene
Concen: 68.297 ug/L
RT: 15.110 min Scan# 2171
Delta R.T. -0.012 min
Lab File: VW031663.D
Acq: 30 Jan 2025 17:46

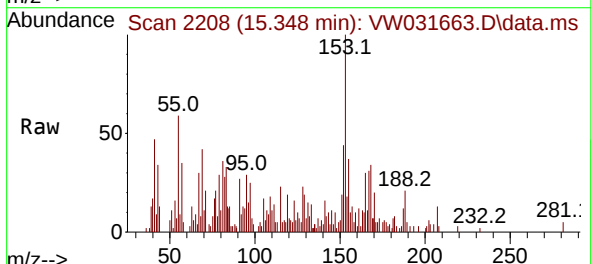
Instrument :
MSVOA_W
ClientSampleId :



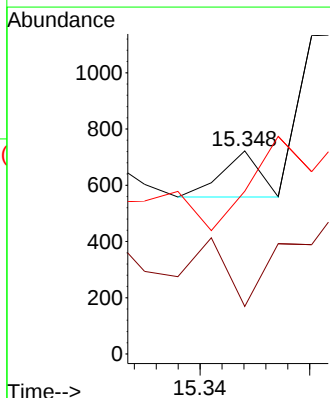
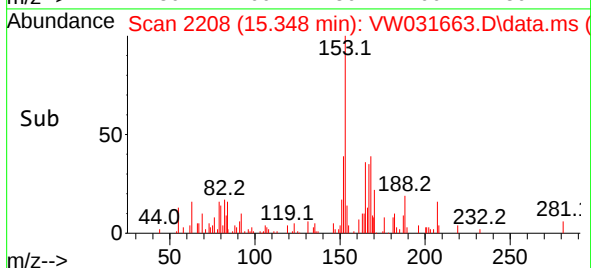
Tgt Ion:180 Resp: 212
Ion Ratio Lower Upper
180 100
182 0.0 77.7 116.5#
145 42.0 26.6 39.8#

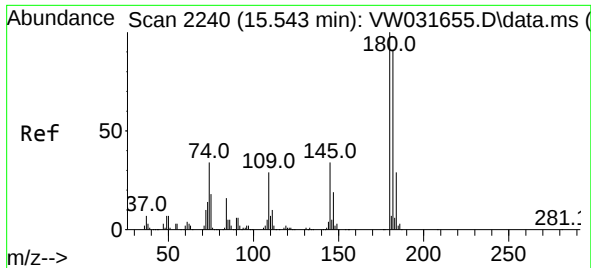


#71
Naphthalene
Concen: 13.573 ug/L
RT: 15.348 min Scan# 2208
Delta R.T. -0.006 min
Lab File: VW031663.D
Acq: 30 Jan 2025 17:46



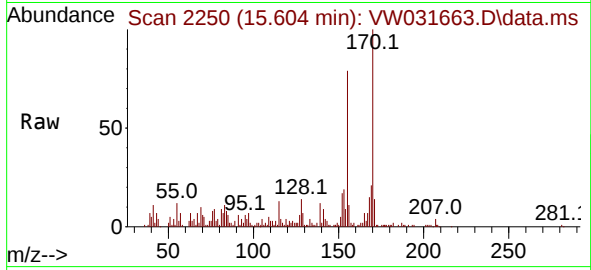
Tgt Ion:128 Resp: 79
Ion Ratio Lower Upper
128 100
127 112.7 10.4 15.6#
129 316.5 8.7 13.1#





#72
 1,2,3-Trichlorobenzene
 Concen: 9.945 ug/L
 RT: 15.604 min Scan# 21
 Delta R.T. 0.061 min
 Lab File: VW031663.D
 Acq: 30 Jan 2025 17:46

Instrument :
 MSVOA_W
 ClientSampleId :



Tgt Ion:	180	Resp:	26
Ion	Ratio	Lower	Upper
180	100		
182	446.2	76.9	115.3#
145	676.9	30.1	45.1#

