

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042425\
 Data File : VN086395.D
 Acq On : 24 Apr 2025 12:46
 Operator : JC\MD
 Sample : VN0424WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0424WBL01

Quant Time: Apr 25 01:40:23 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 24 04:42:24 2025
 Response via : Initial Calibration

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

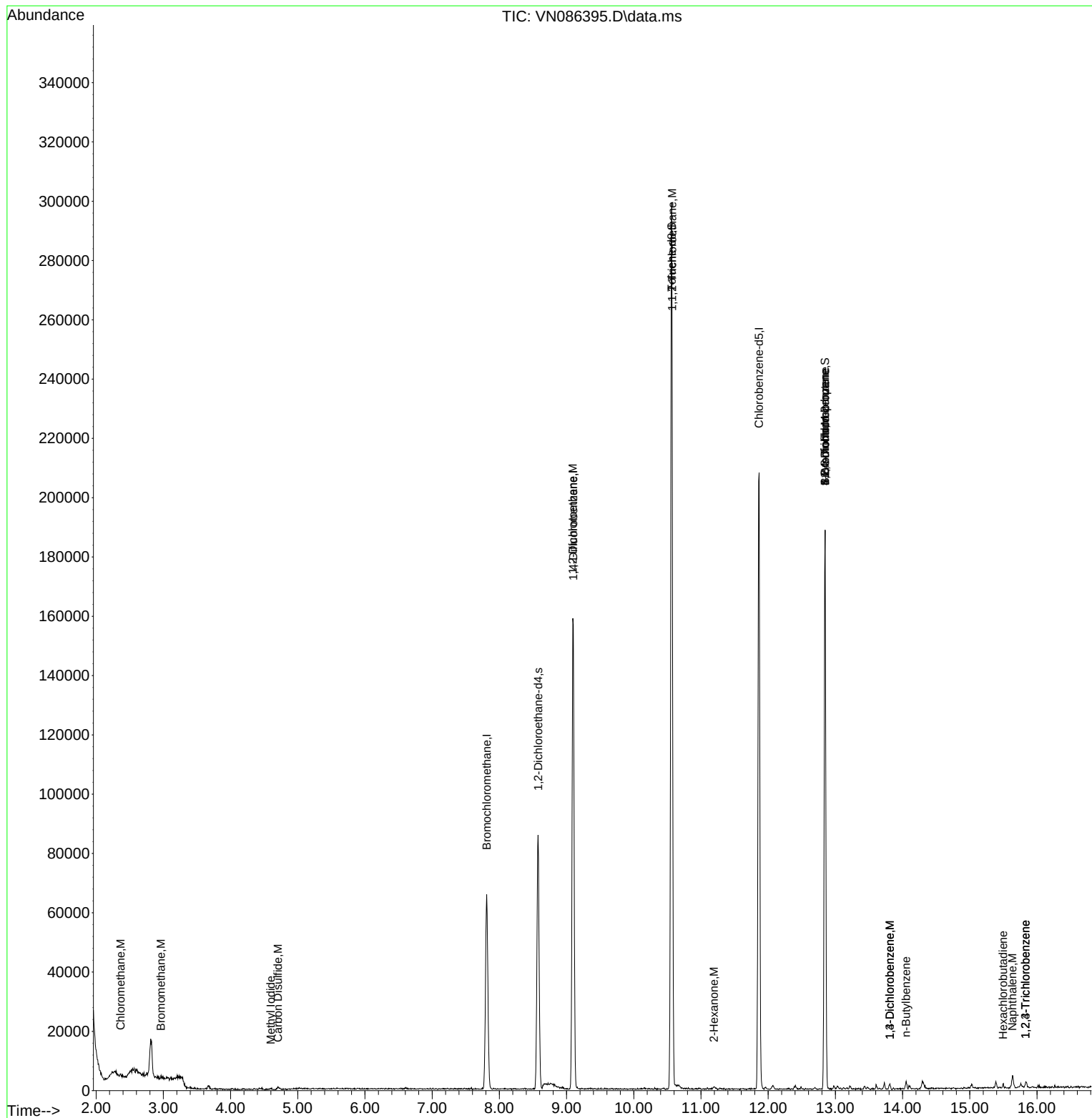
Internal Standards						
1) Bromochloromethane	7.812	128	23712	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	143523	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	125380	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	70798	30.968	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 103.233%	
60) 4-Bromofluorobenzene	12.847	95	67645	27.451	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 91.500%	
63) Toluene-d8	10.565	98	211128	30.608	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 102.033%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	1112	0.478	ug/l	89
5) Bromomethane	2.965	94	433	0.372	ug/l	98
11) Methyl Iodide	4.600	142	554	0.286	ug/l #	44
16) Carbon Disulfide	4.706	76	1502	0.345	ug/l #	75
36) 1,2-Dichloroethane	9.094	62	5175	1.981	ug/l #	74
50) 1,1,2-Trichloroethane	10.570	97	6823	3.674	ug/l #	1
56) Bromoform	12.847	173	445	0.329	ug/l #	1
59) 2-Hexanone	11.194	43	655	0.366	ug/l #	67
72) 1,2,3-Trichloropropane	12.847	75	34781	17.295	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	34781	34.078	ug/l #	13
83) 1,3-Dichlorobenzene	13.811	146	884	0.232	ug/l	86
84) 1,4-Dichlorobenzene	13.811	146	884	0.235	ug/l	87
85) n-Butylbenzene	14.053	91	1754	0.267	ug/l	99
89) 1,2,4-Trichlorobenzene	15.829	180	1174	0.711	ug/l #	87
90) Hexachlorobutadiene	15.494	225	463	0.696	ug/l	60
91) Naphthalene	15.635	128	5228	0.884	ug/l #	90
92) 1,2,3-Trichlorobenzene	15.829	180	1174	0.711	ug/l	87

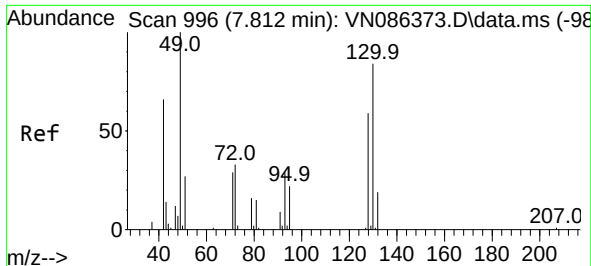
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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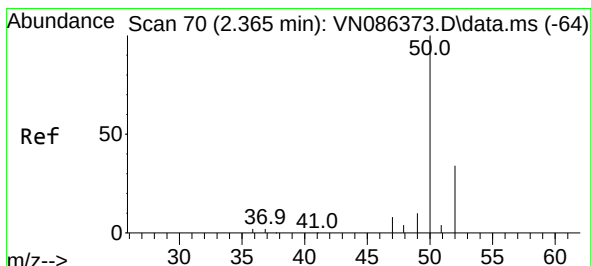
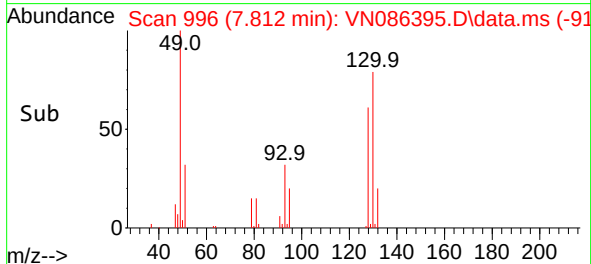
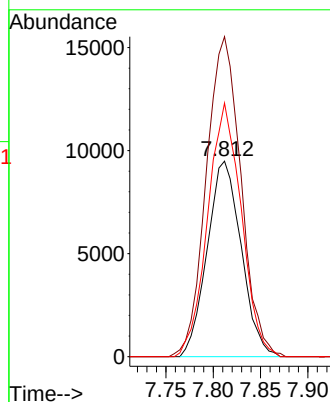
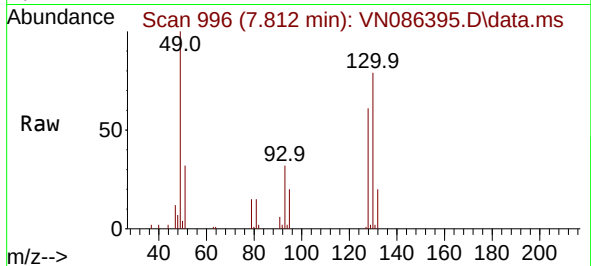




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN086395.D
Acq: 24 Apr 2025 12:46

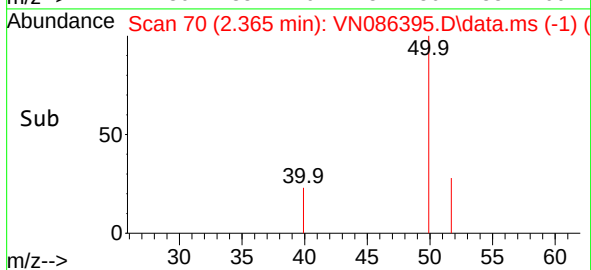
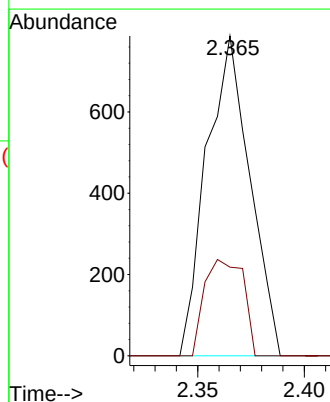
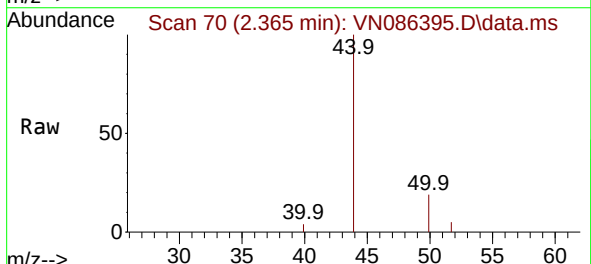
Instrument :
MSVOA_N
ClientSampleId :
VN0424WBL01

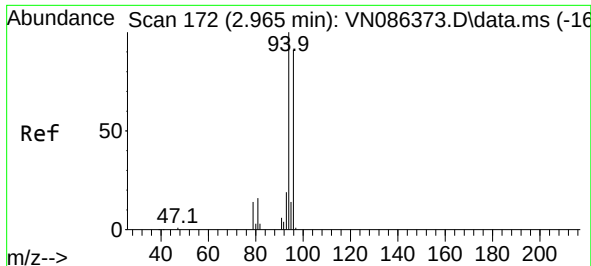
Tgt Ion:128 Resp: 23712
Ion Ratio Lower Upper
128 100
49 166.5 0.0 433.8
130 128.3 0.0 325.0



#3
Chloromethane
Concen: 0.478 ug/l
RT: 2.365 min Scan# 70
Delta R.T. -0.000 min
Lab File: VN086395.D
Acq: 24 Apr 2025 12:46

Tgt Ion: 50 Resp: 1112
Ion Ratio Lower Upper
50 100
52 27.7 27.3 40.9

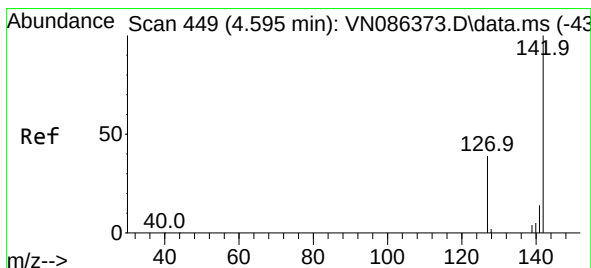
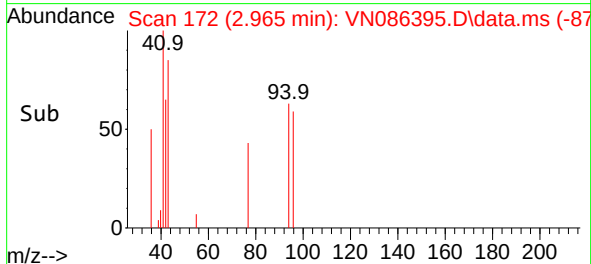
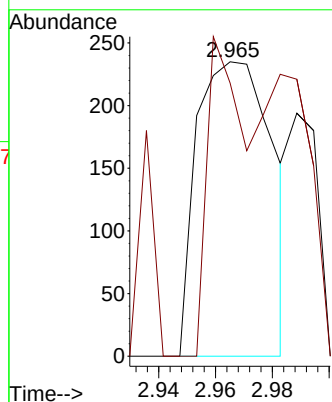
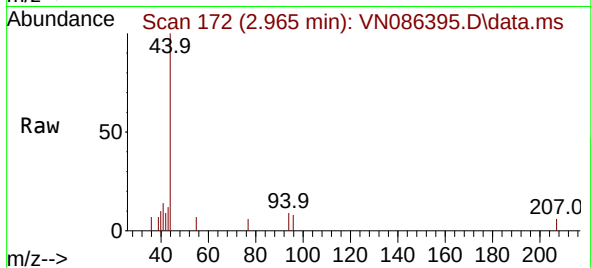




#5
Bromomethane
Concen: 0.372 ug/l
RT: 2.965 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086395.D
Acq: 24 Apr 2025 12:46

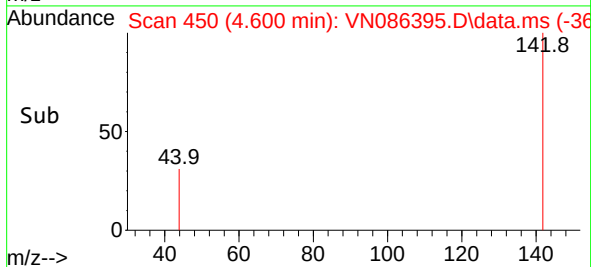
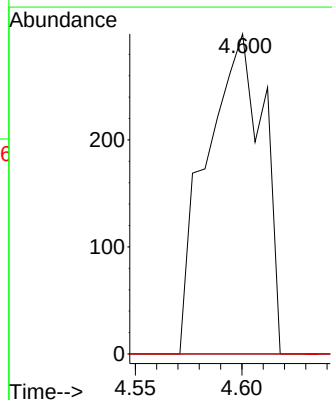
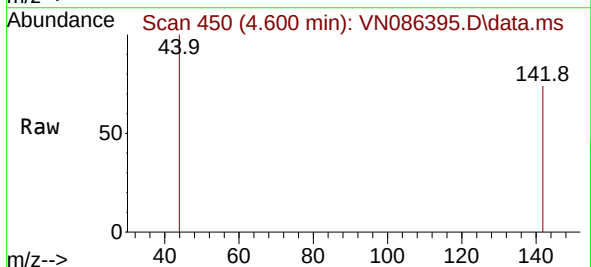
Instrument :
MSVOA_N
ClientSampleId :
VN0424WBL01

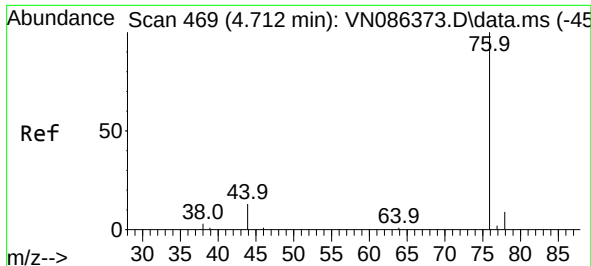
Tgt Ion: 94 Resp: 433
Ion Ratio Lower Upper
94 100
96 92.8 72.4 108.6



#11
Methyl Iodide
Concen: 0.286 ug/l
RT: 4.600 min Scan# 450
Delta R.T. 0.006 min
Lab File: VN086395.D
Acq: 24 Apr 2025 12:46

Tgt Ion: 142 Resp: 554
Ion Ratio Lower Upper
142 100
127 0.0 19.3 57.9#
141 0.0 7.1 21.3#

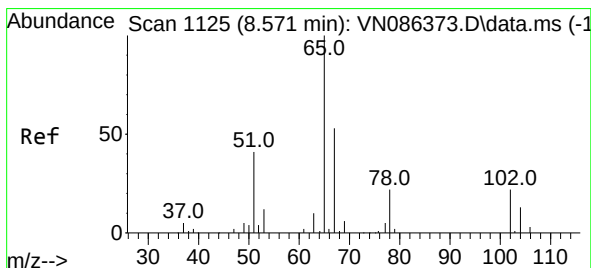
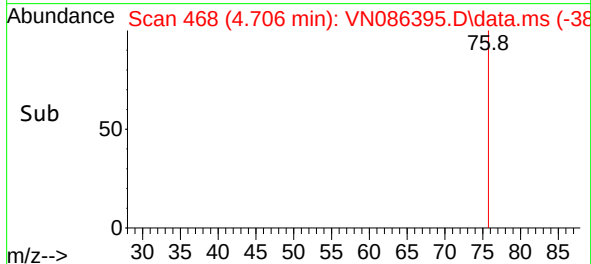
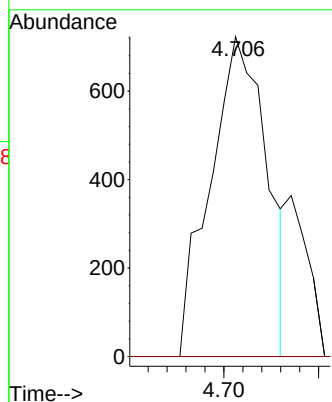
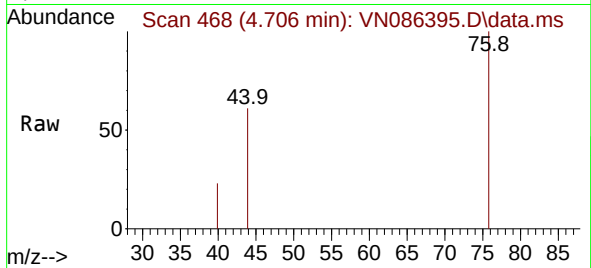




#16
Carbon Disulfide
Concen: 0.345 ug/l
RT: 4.706 min Scan# 4
Delta R.T. -0.006 min
Lab File: VN086395.D
Acq: 24 Apr 2025 12:46

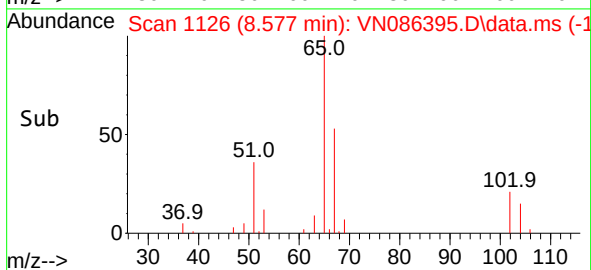
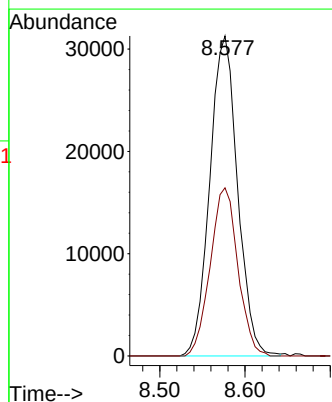
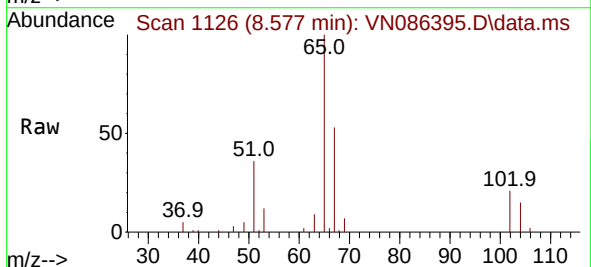
Instrument :
MSVOA_N
ClientSampleId :
VN0424WBL01

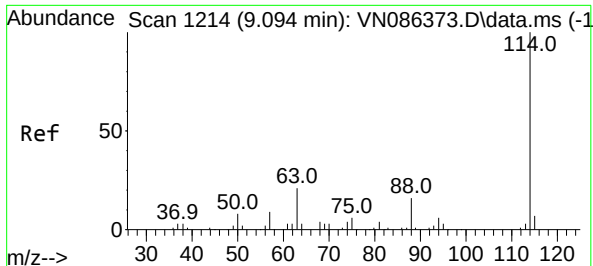
Tgt Ion: 76 Resp: 1502
Ion Ratio Lower Upper
76 100
78 0.0 7.1 10.7#



#27
1,2-Dichloroethane-d4
Concen: 30.968 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN086395.D
Acq: 24 Apr 2025 12:46

Tgt Ion: 65 Resp: 70798
Ion Ratio Lower Upper
65 100
67 52.3 42.5 63.7

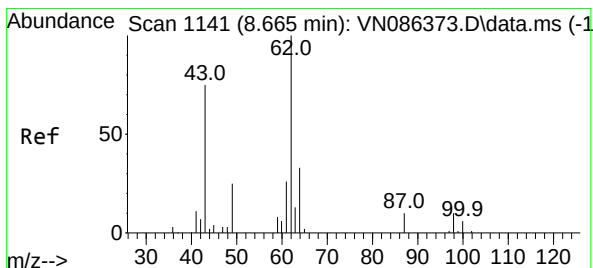
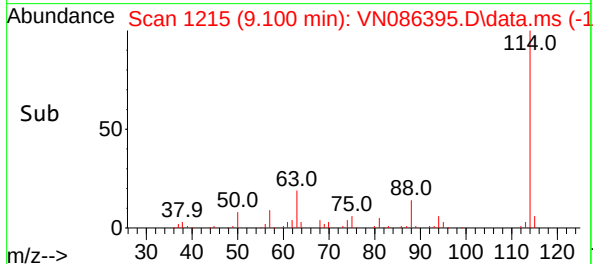
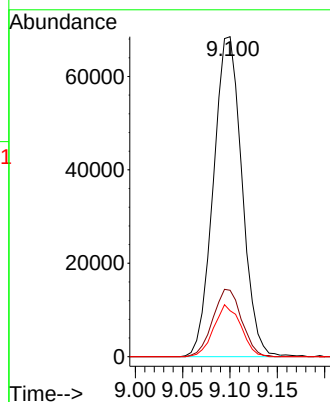
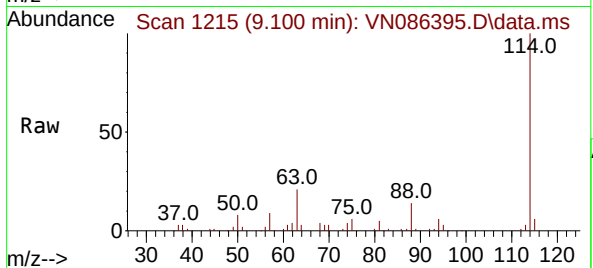




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 114
Delta R.T. 0.006 min
Lab File: VN086395.D
Acq: 24 Apr 2025 12:46

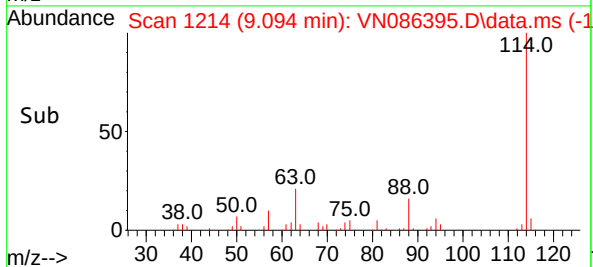
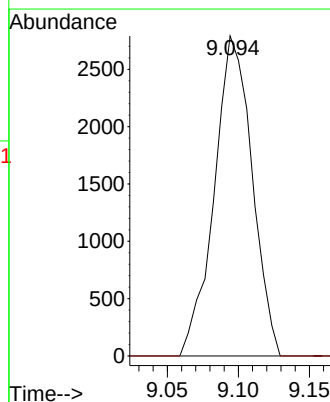
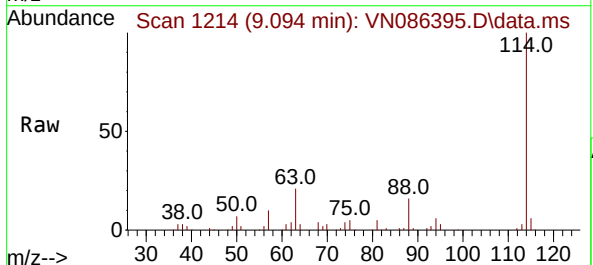
Instrument :
MSVOA_N
ClientSampleId :
VN0424WBL01

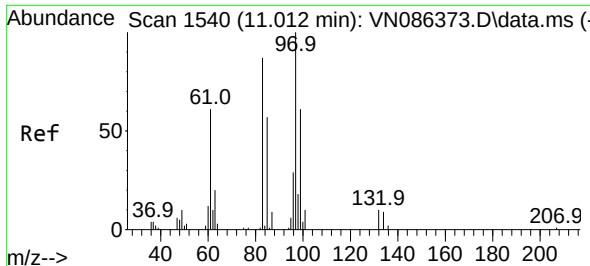
Tgt Ion:114 Resp: 143523
Ion Ratio Lower Upper
114 100
63 21.2 16.7 25.1
88 15.4 12.6 19.0



#36
1,2-Dichloroethane
Concen: 1.981 ug/l
RT: 9.094 min Scan# 1214
Delta R.T. 0.429 min
Lab File: VN086395.D
Acq: 24 Apr 2025 12:46

Tgt Ion: 62 Resp: 5175
Ion Ratio Lower Upper
62 100
98 0.0 7.6 11.4#

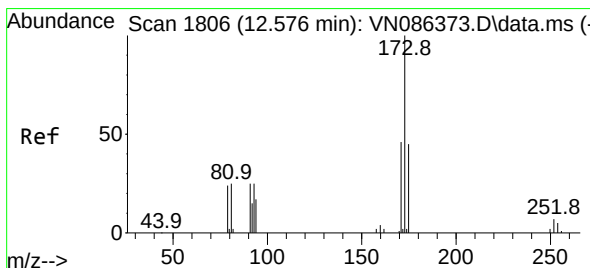
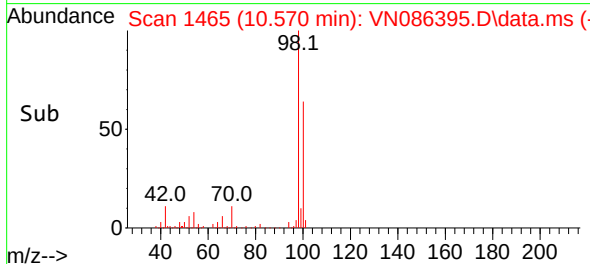
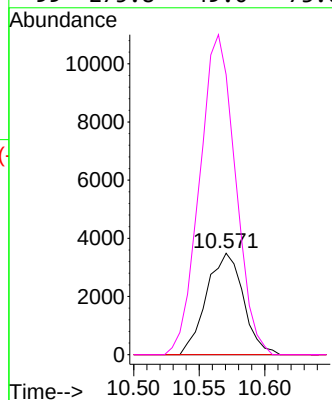
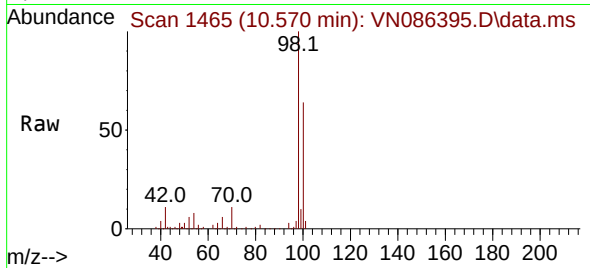




#50
1,1,2-Trichloroethane
Concen: 3.674 ug/l
RT: 10.570 min Scan# 1465
Delta R.T. -0.441 min
Lab File: VN086395.D
Acq: 24 Apr 2025 12:46

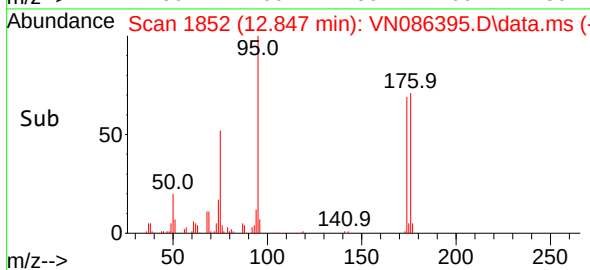
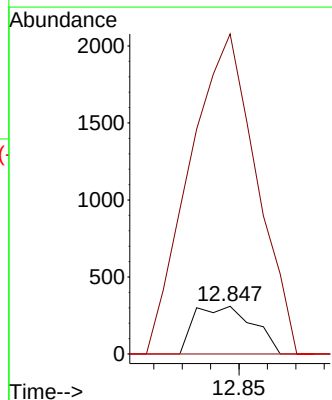
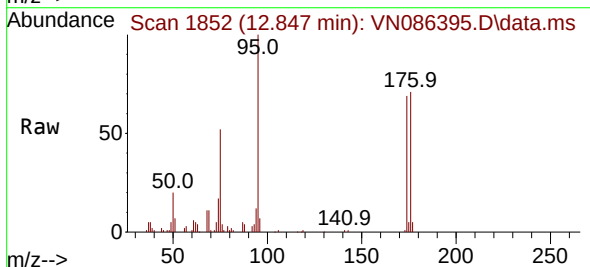
Instrument :
MSVOA_N
ClientSampleId :
VN0424WBL01

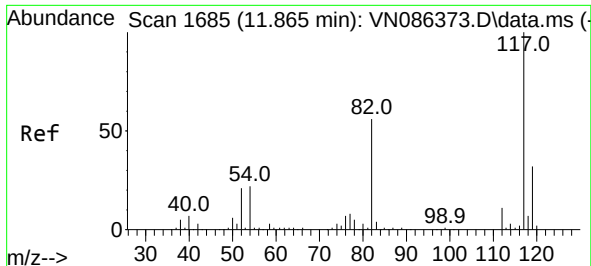
Tgt Ion: 97 Resp: 6823
Ion Ratio Lower Upper
97 100
83 0.0 69.3 103.9#
85 0.0 45.5 68.3#
99 275.8 49.0 73.6#



#56
Bromoform
Concen: 0.329 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.271 min
Lab File: VN086395.D
Acq: 24 Apr 2025 12:46

Tgt Ion:173 Resp: 445
Ion Ratio Lower Upper
173 100
175 764.3 39.0 58.6#
254 0.0 3.8 5.6#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086395.D

Acq: 24 Apr 2025 12:46

Instrument :

MSVOA_N

ClientSampleId :

VN0424WBL01

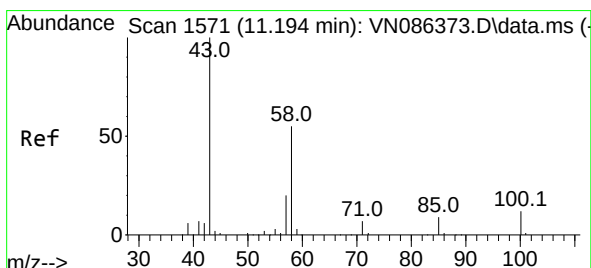
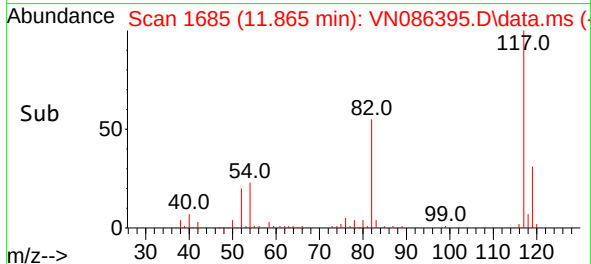
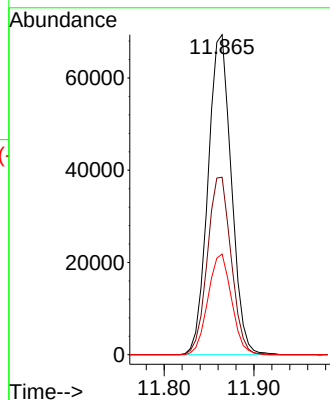
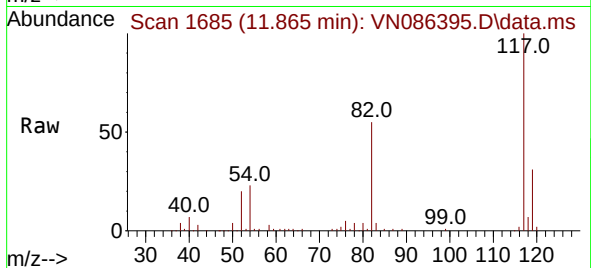
Tgt Ion:117 Resp: 125380

Ion Ratio Lower Upper

117 100

82 56.5 45.5 68.3

119 31.7 25.9 38.9



#59

2-Hexanone

Concen: 0.366 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. -0.000 min

Lab File: VN086395.D

Acq: 24 Apr 2025 12:46

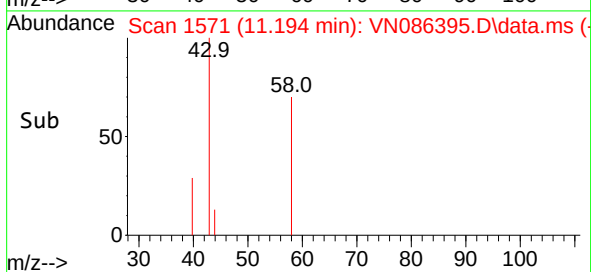
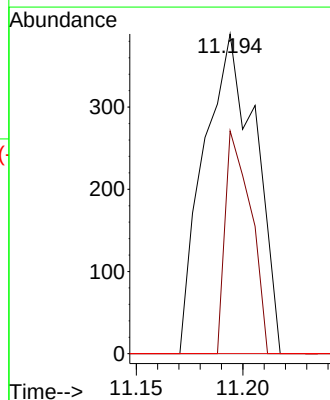
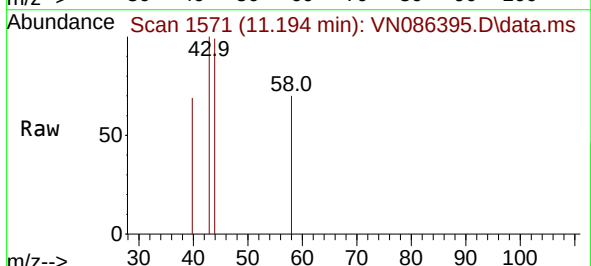
Tgt Ion: 43 Resp: 655

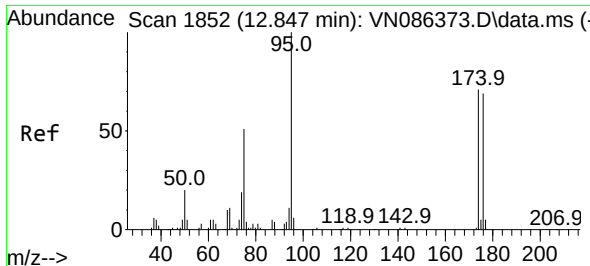
Ion Ratio Lower Upper

43 100

58 34.7 45.0 67.6#

57 0.0 15.5 23.3#

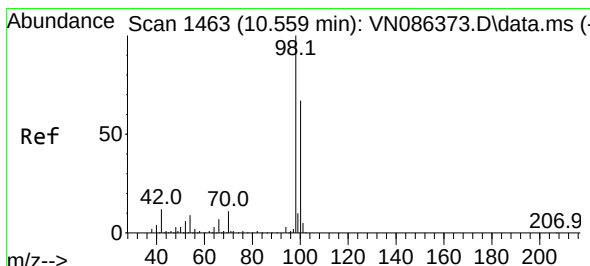
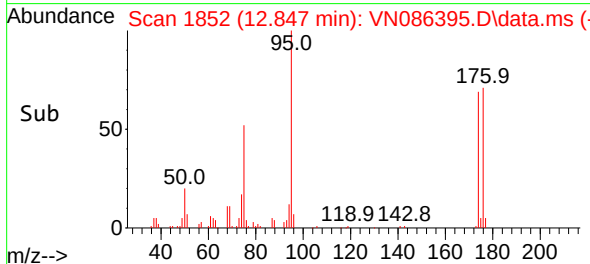
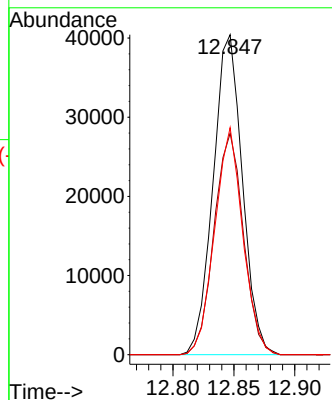
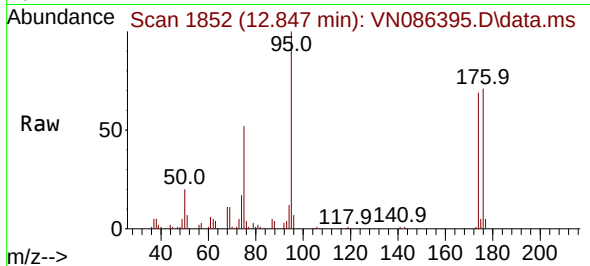




#60
4-Bromofluorobenzene
Concen: 27.451 ug/l
RT: 12.847 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086395.D
Acq: 24 Apr 2025 12:46

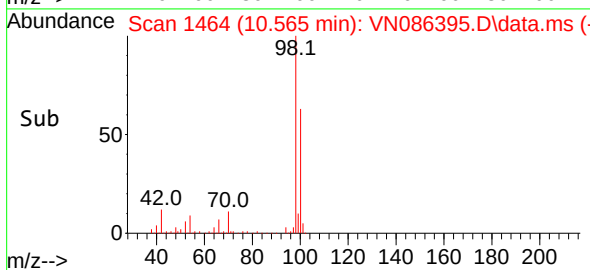
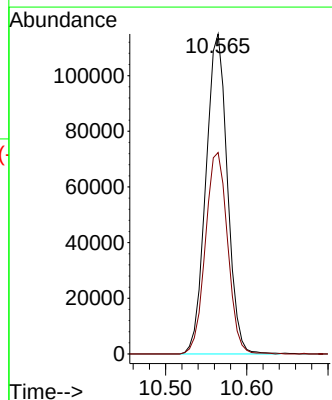
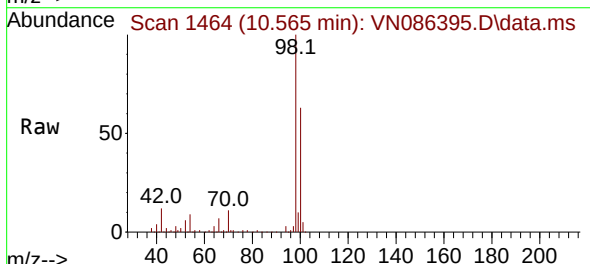
Instrument :
MSVOA_N
ClientSampleId :
VN0424WBL01

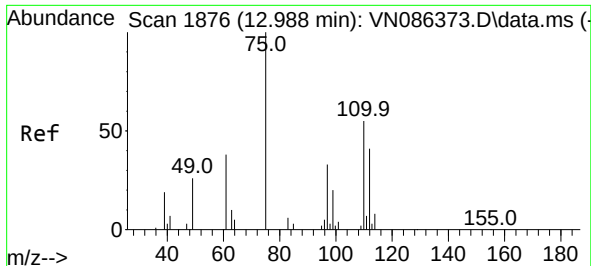
Tgt Ion: 95 Resp: 67645
Ion Ratio Lower Upper
95 100
174 69.4 56.6 84.8
176 68.3 53.3 79.9



#63
Toluene-d8
Concen: 30.608 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VN086395.D
Acq: 24 Apr 2025 12:46

Tgt Ion: 98 Resp: 211128
Ion Ratio Lower Upper
98 100
100 65.1 53.1 79.7

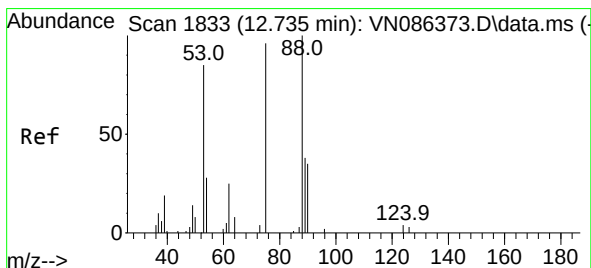
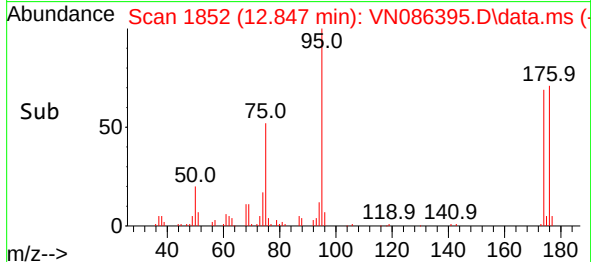
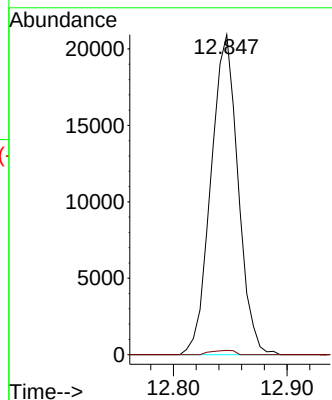
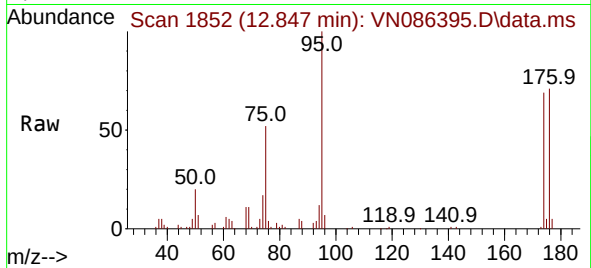




#72
1,2,3-Trichloropropane
Concen: 17.295 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086395.D
Acq: 24 Apr 2025 12:46

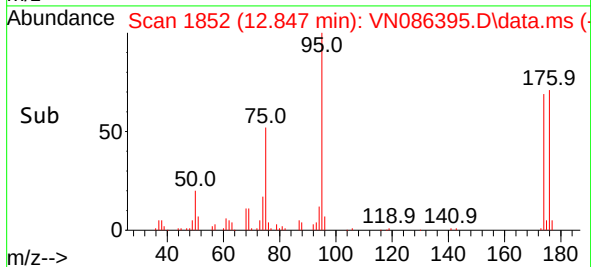
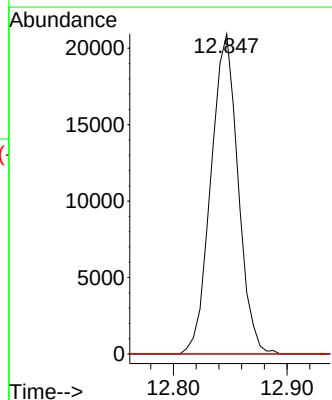
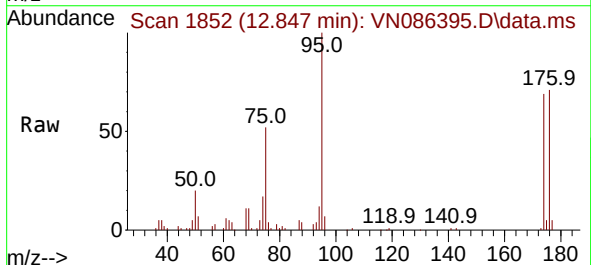
Instrument :
MSVOA_N
ClientSampleId :
VN0424WBL01

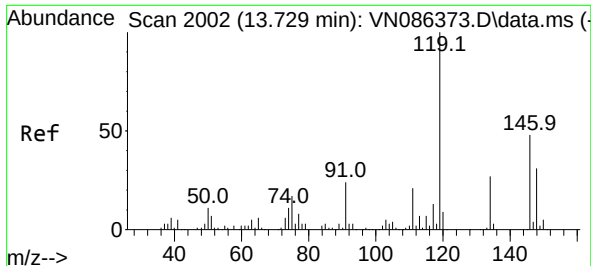
Tgt Ion: 75 Resp: 34781
Ion Ratio Lower Upper
75 100
77 1.2 0.0 464.4



#77
t-1,4-Dichloro-2-butene
Concen: 34.078 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086395.D
Acq: 24 Apr 2025 12:46

Tgt Ion: 75 Resp: 34781
Ion Ratio Lower Upper
75 100
53 0.0 46.0 138.0#
89 0.0 21.6 64.6#

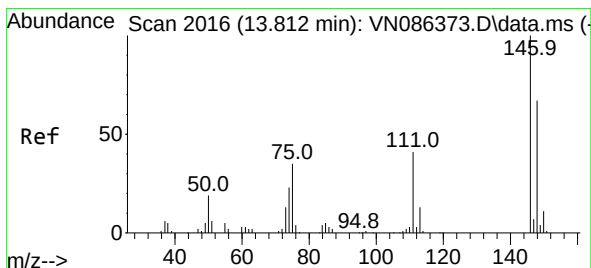
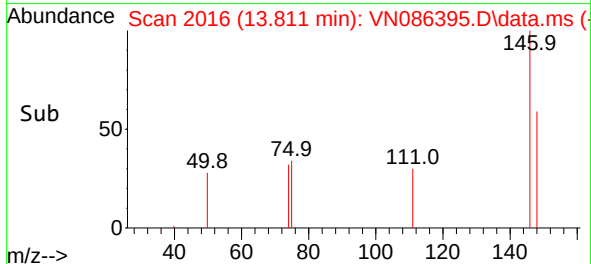
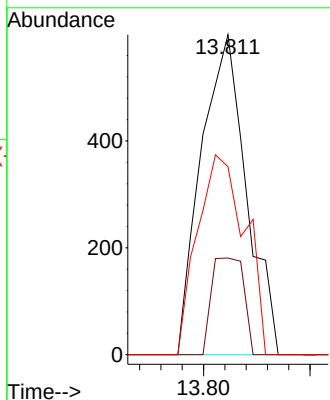
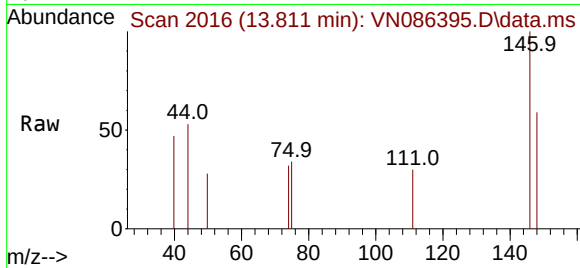




#83
 1,3-Dichlorobenzene
 Concen: 0.232 ug/l
 RT: 13.811 min Scan# 2016
 Delta R.T. 0.082 min
 Lab File: VN086395.D
 Acq: 24 Apr 2025 12:46

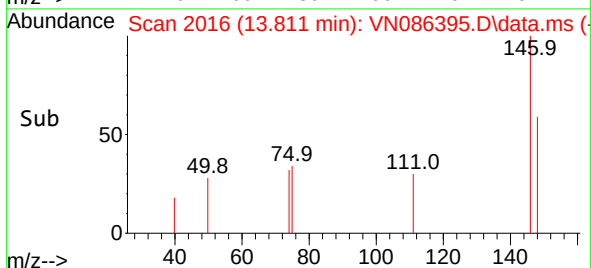
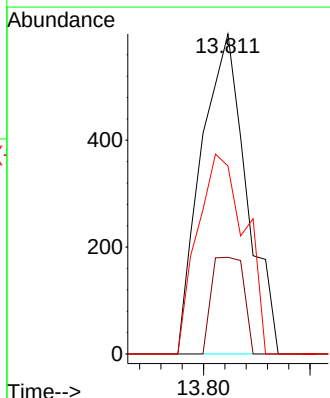
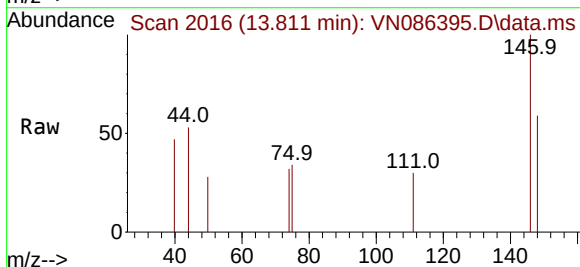
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0424WBL01

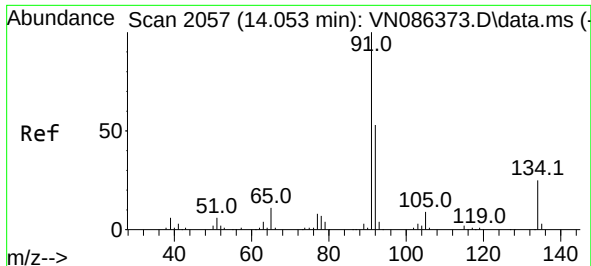
Tgt Ion:146 Resp: 884
 Ion Ratio Lower Upper
 146 100
 111 21.4 20.7 62.1
 148 66.0 32.3 96.8



#84
 1,4-Dichlorobenzene
 Concen: 0.235 ug/l
 RT: 13.811 min Scan# 2016
 Delta R.T. -0.000 min
 Lab File: VN086395.D
 Acq: 24 Apr 2025 12:46

Tgt Ion:146 Resp: 884
 Ion Ratio Lower Upper
 146 100
 111 21.4 20.3 60.8
 148 66.0 32.4 97.2

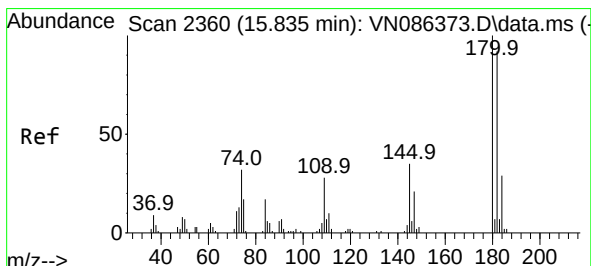
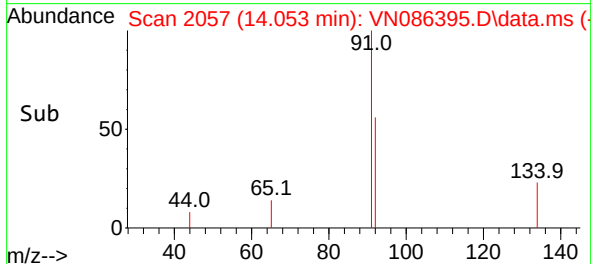
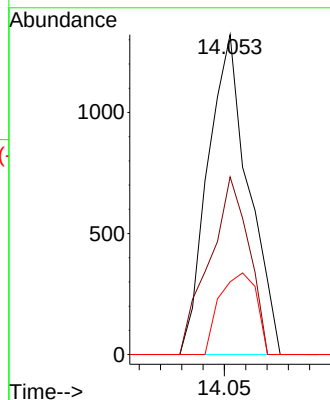
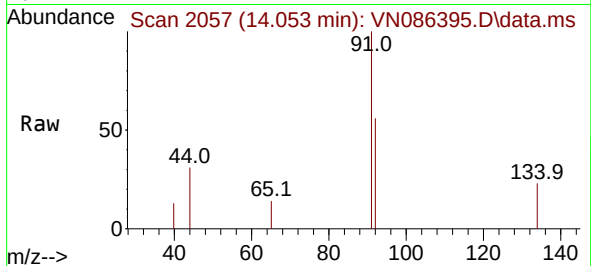




#85
n-Butylbenzene
Concen: 0.267 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.000 min
Lab File: VN086395.D
Acq: 24 Apr 2025 12:46

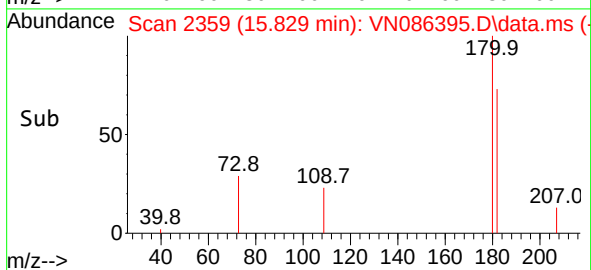
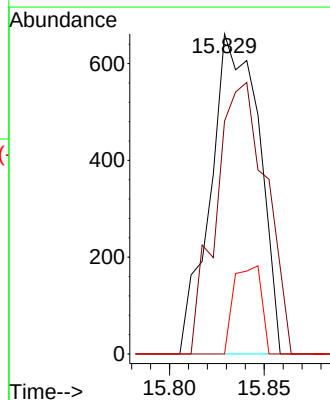
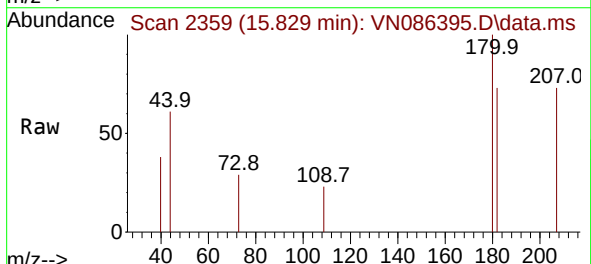
Instrument :
MSVOA_N
ClientSampleId :
VN0424WBL01

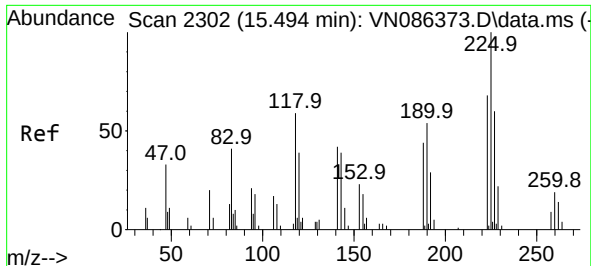
Tgt Ion:	91	Resp:	1754
Ion	Ratio	Lower	Upper
91	100		
92	53.8	0.0	107.2
134	23.1	0.0	48.2



#89
1,2,4-Trichlorobenzene
Concen: 0.711 ug/l
RT: 15.829 min Scan# 2359
Delta R.T. -0.006 min
Lab File: VN086395.D
Acq: 24 Apr 2025 12:46

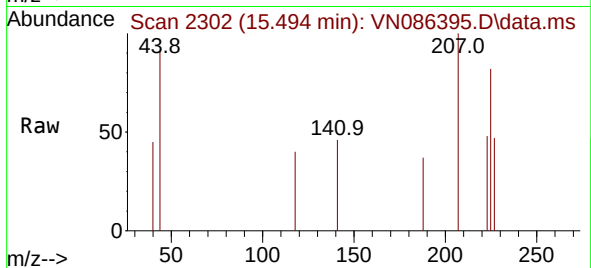
Tgt Ion:	180	Resp:	1174
Ion	Ratio	Lower	Upper
180	100		
182	88.0	74.8	112.2
145	15.6	26.9	40.3#



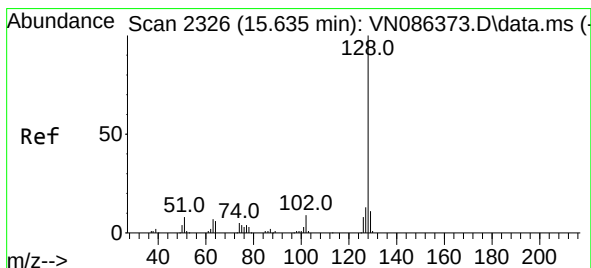
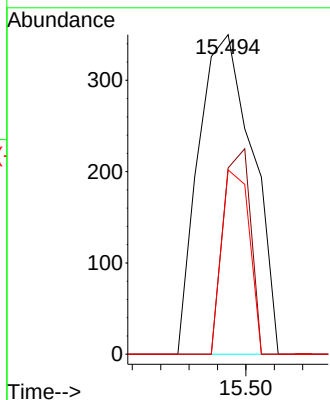
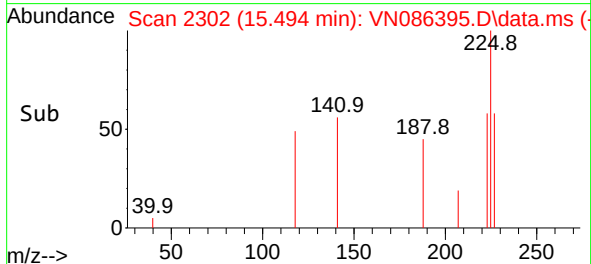


#90
Hexachlorobutadiene
Concen: 0.696 ug/l
RT: 15.494 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN086395.D
Acq: 24 Apr 2025 12:46

Instrument :
MSVOA_N
ClientSampleId :
VN0424WBL01

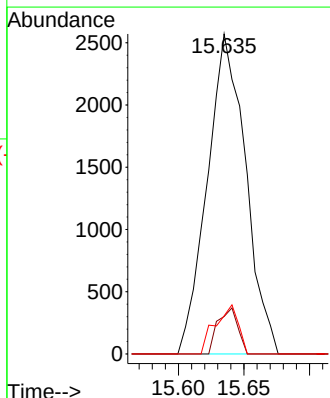
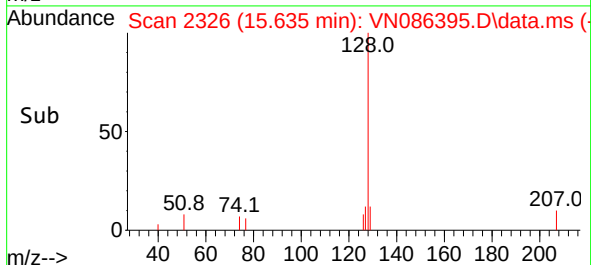
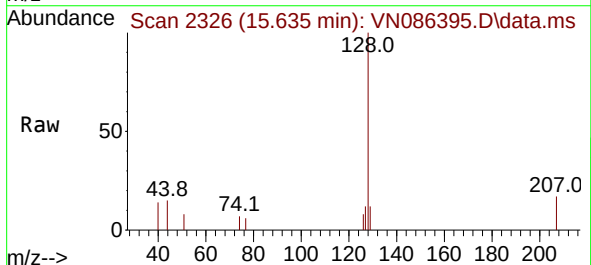


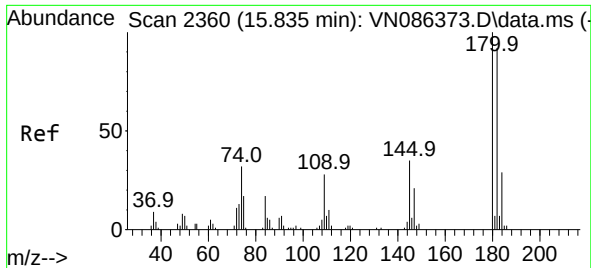
Tgt Ion:225	Resp:	463
Ion	Ratio	Lower Upper
225	100	
223	32.6	0.0 128.8
227	29.6	0.0 120.2



#91
Naphthalene
Concen: 0.884 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.000 min
Lab File: VN086395.D
Acq: 24 Apr 2025 12:46

Tgt Ion:128	Resp:	5228
Ion	Ratio	Lower Upper
128	100	
127	7.5	10.6 15.8#
129	9.3	8.7 13.1





#92

1,2,3-Trichlorobenzene

Concen: 0.711 ug/l

RT: 15.829 min Scan# 21

Delta R.T. -0.006 min

Lab File: VN086395.D

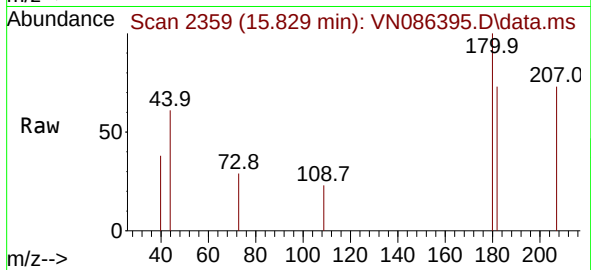
Acq: 24 Apr 2025 12:46

Instrument :

MSVOA_N

ClientSampleId :

VN0424WBL01



Tgt Ion:180 Resp: 1174

Ion Ratio Lower Upper

180 100

182 88.0 0.0 187.0

145 15.6 0.0 67.2

