

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011025\
 Data File : VN085421.D
 Acq On : 10 Jan 2025 12:21
 Operator : JC\MD
 Sample : VN0110WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 10 22:44:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Dec 21 02:03:07 2024
 Response via : Initial Calibration

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

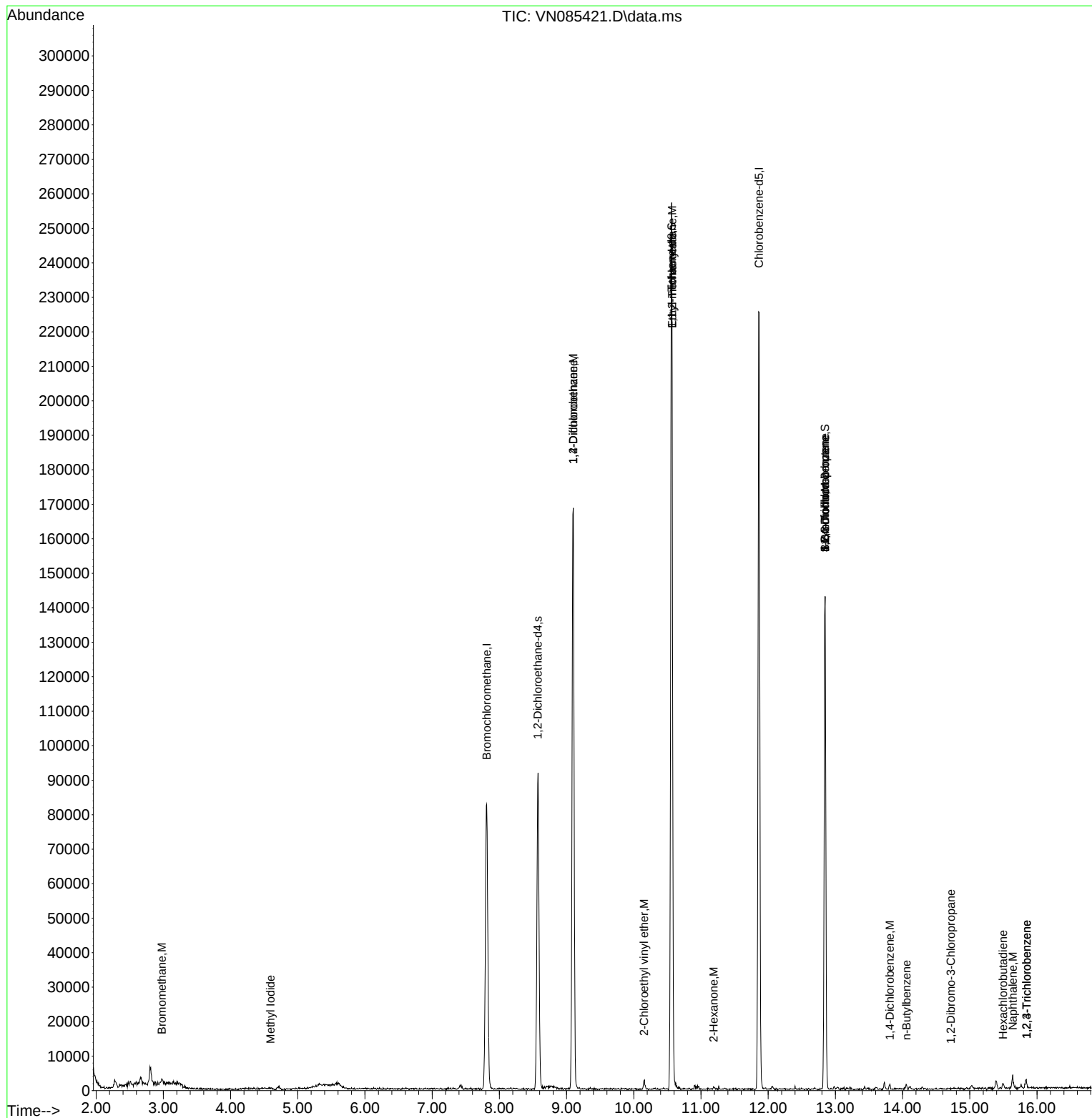
Internal Standards						
1) Bromochloromethane	7.812	128	28161	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	139569	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	125667	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.571	65	73441	29.646	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	98.833%
60) 4-Bromofluorobenzene	12.847	95	47781	23.473	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	78.233%
63) Toluene-d8	10.565	98	177448	28.918	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	96.400%
Target Compounds						
					Qvalue	
5) Bromomethane	2.977	94	601	0.426	ug/l #	17
11) Methyl Iodide	4.595	142	531	0.255	ug/l #	84
36) 1,2-Dichloroethane	9.100	62	5561	2.008	ug/l #	77
50) 1,1,2-Trichloroethane	10.571	97	6020	3.388	ug/l #	1
51) Ethyl methacrylate	10.571	69	650	0.242	ug/l #	68
55) 2-Chloroethyl vinyl ether	10.153	63	1167	0.843	ug/l #	71
56) Bromoform	12.847	173	618	0.455	ug/l #	1
59) 2-Hexanone	11.188	43	612	0.331	ug/l #	50
72) 1,2,3-Trichloropropane	12.847	75	26348	11.974	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	26348	29.300	ug/l #	6
84) 1,4-Dichlorobenzene	13.812	146	815	0.251	ug/l #	72
85) n-Butylbenzene	14.059	91	1069	0.205	ug/l	84
88) 1,2-Dibromo-3-Chloropr...	14.717	75	124	0.263	ug/l #	9
89) 1,2,4-Trichlorobenzene	15.847	180	1303	0.862	ug/l #	76
90) Hexachlorobutadiene	15.494	225	593	0.787	ug/l	69
91) Naphthalene	15.641	128	3877	0.798	ug/l #	72
92) 1,2,3-Trichlorobenzene	15.847	180	1303	0.862	ug/l	76

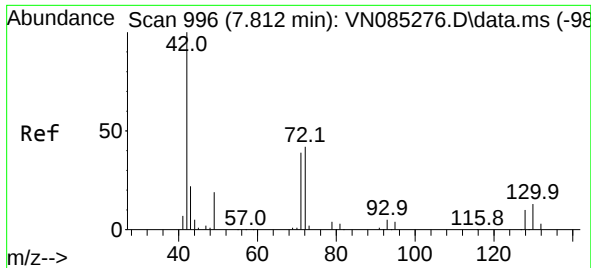
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011025\
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MSVOA_N
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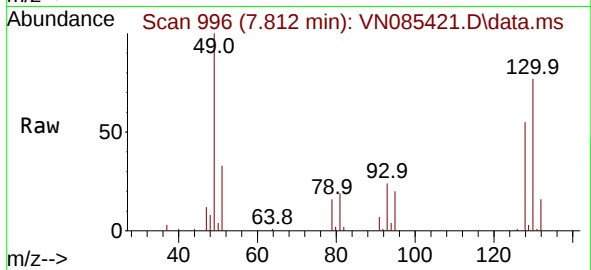
Quant Time: Jan 10 22:44:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Dec 21 02:03:07 2024
Response via : Initial Calibration



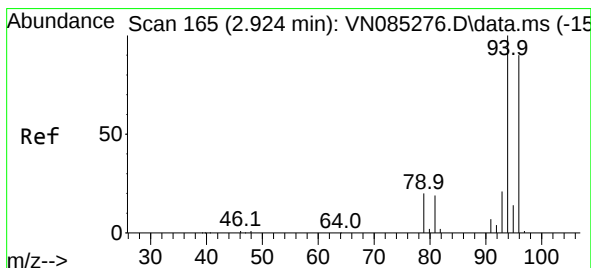
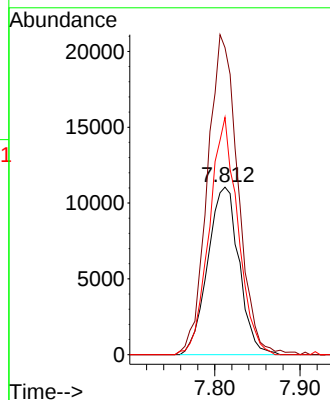
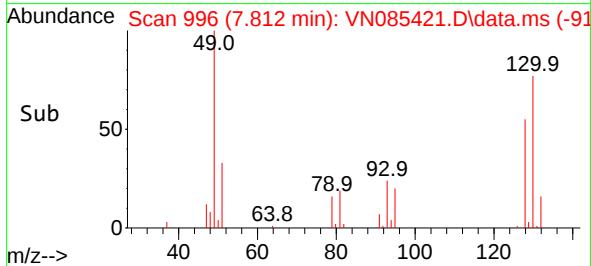


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN085421.D
Acq: 10 Jan 2025 12:21

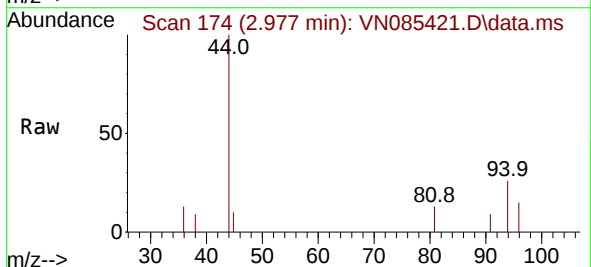
Instrument :
MSVOA_N
ClientSampleId :



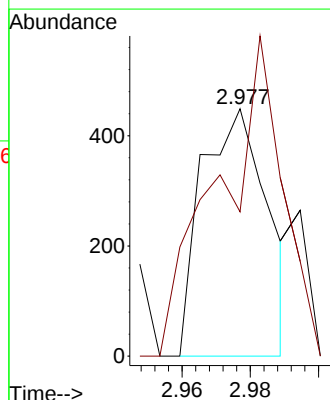
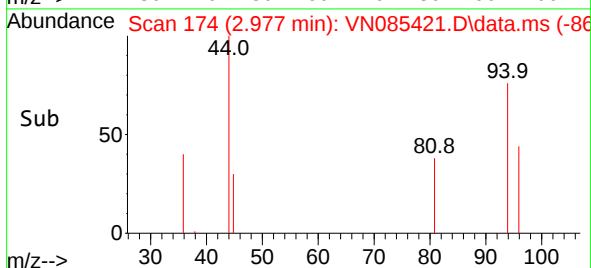
Tgt Ion:128 Resp: 28161
Ion Ratio Lower Upper
128 100
49 186.1 0.0 497.8
130 129.6 0.0 328.5

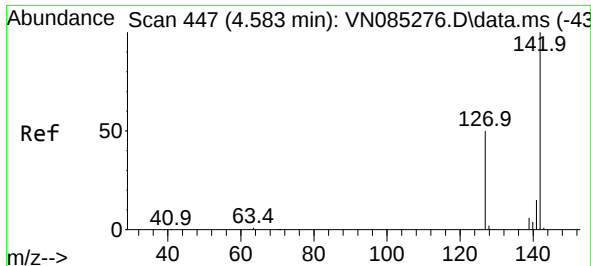


#5
Bromomethane
Concen: 0.426 ug/l
RT: 2.977 min Scan# 174
Delta R.T. 0.018 min
Lab File: VN085421.D
Acq: 10 Jan 2025 12:21



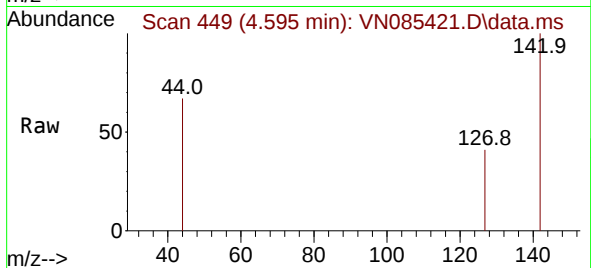
Tgt Ion: 94 Resp: 601
Ion Ratio Lower Upper
94 100
96 14.3 75.6 113.4#



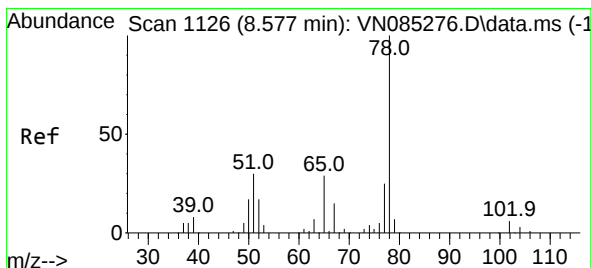
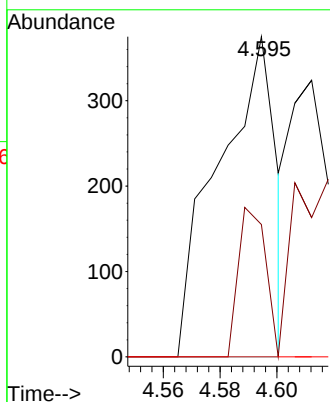
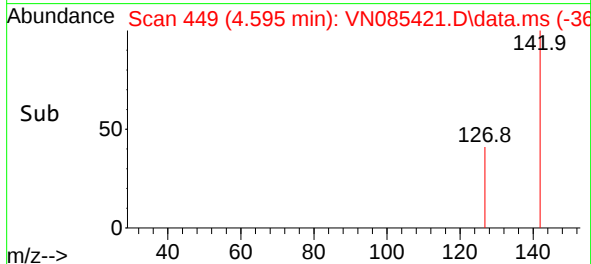


#11
Methyl Iodide
Concen: 0.255 ug/l
RT: 4.595 min Scan# 449
Delta R.T. 0.006 min
Lab File: VN085421.D
Acq: 10 Jan 2025 12:21

Instrument :
MSVOA_N
ClientSampleId :

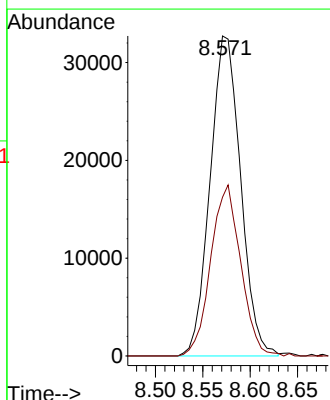
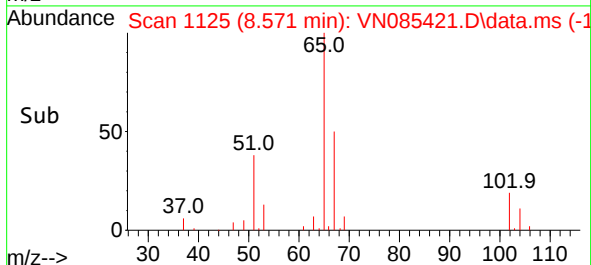
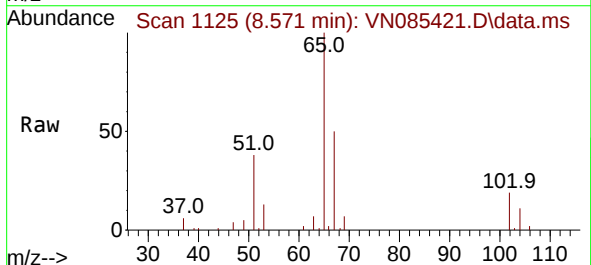


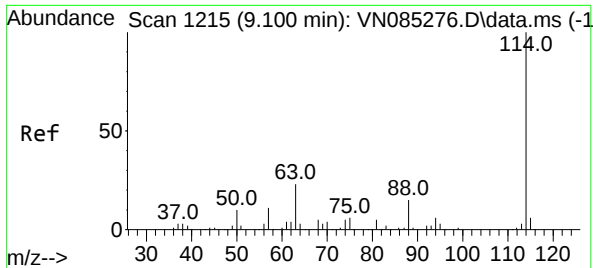
Tgt Ion:142 Resp: 531
Ion Ratio Lower Upper
142 100
127 57.9 25.1 75.4
141 0.0 6.9 20.7#



#27
1,2-Dichloroethane-d4
Concen: 29.646 ug/l
RT: 8.571 min Scan# 1125
Delta R.T. -0.006 min
Lab File: VN085421.D
Acq: 10 Jan 2025 12:21

Tgt Ion: 65 Resp: 73441
Ion Ratio Lower Upper
65 100
67 52.3 42.0 63.0





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN085421.D

Acq: 10 Jan 2025 12:21

Instrument :

MSVOA_N

ClientSampleId :

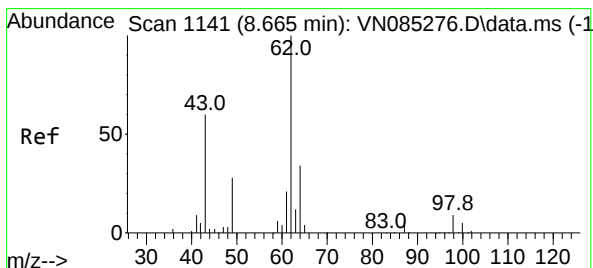
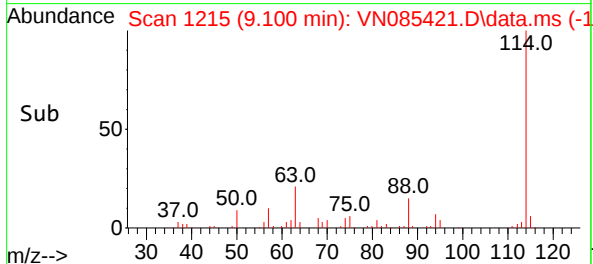
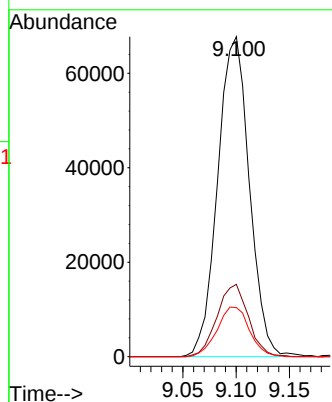
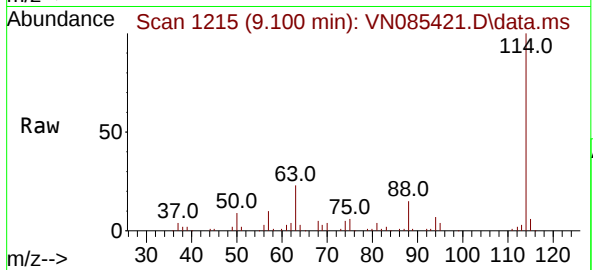
Tgt Ion:114 Resp: 139569

Ion Ratio Lower Upper

114 100

63 22.4 18.0 27.0

88 15.9 12.9 19.3



#36

1,2-Dichloroethane

Concen: 2.008 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.435 min

Lab File: VN085421.D

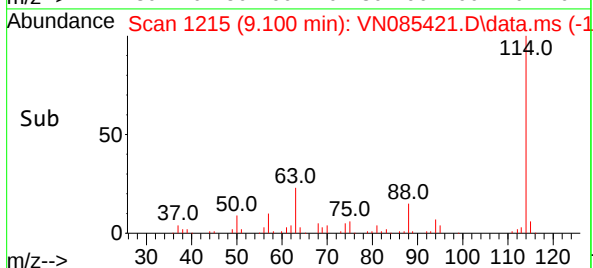
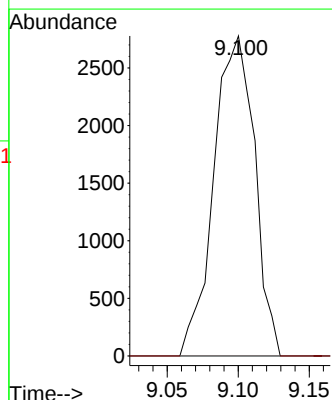
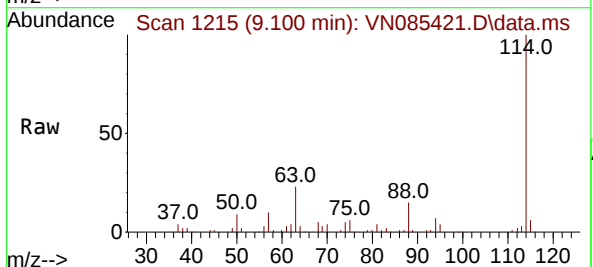
Acq: 10 Jan 2025 12:21

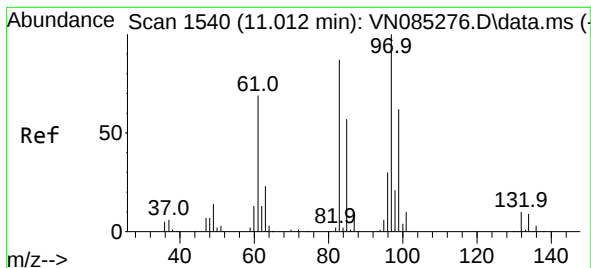
Tgt Ion: 62 Resp: 5561

Ion Ratio Lower Upper

62 100

98 0.0 6.6 10.0#





#50

1,1,2-Trichloroethane

Concen: 3.388 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.441 min

Lab File: VN085421.D

Acq: 10 Jan 2025 12:21

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion: 97 Resp: 6020

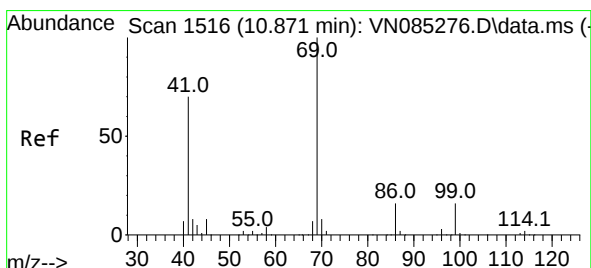
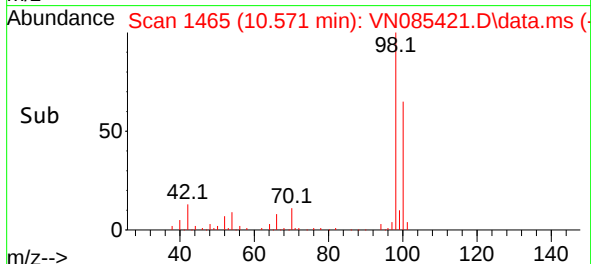
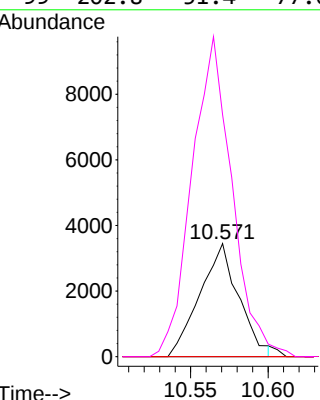
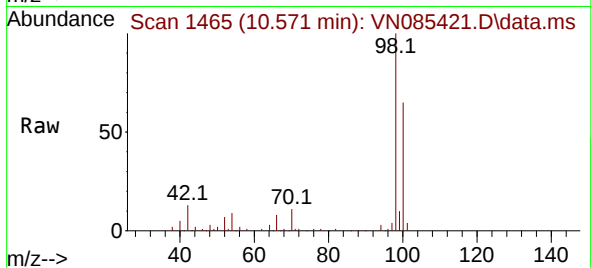
Ion Ratio Lower Upper

97 100

83 0.0 72.2 108.2#

85 0.0 46.6 70.0#

99 202.8 51.4 77.0#



#51

Ethyl methacrylate

Concen: 0.242 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.300 min

Lab File: VN085421.D

Acq: 10 Jan 2025 12:21

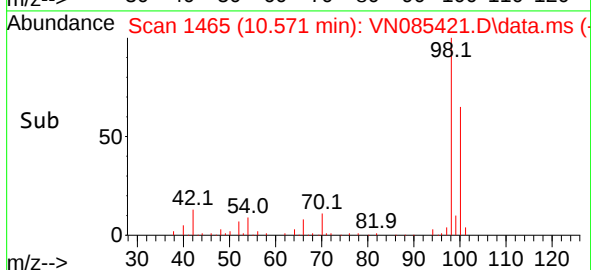
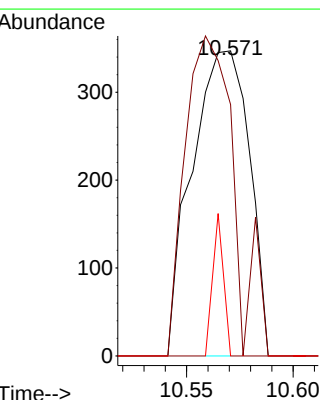
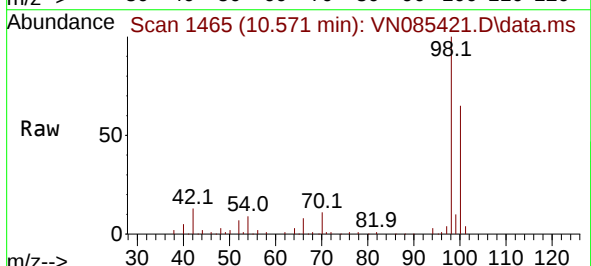
Tgt Ion: 69 Resp: 650

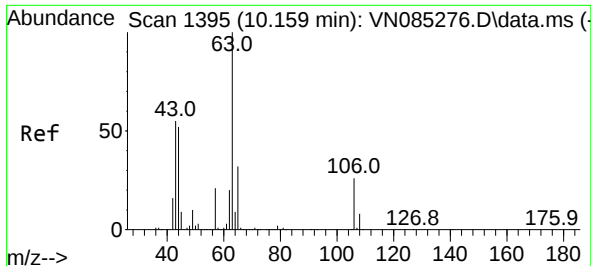
Ion Ratio Lower Upper

69 100

41 82.4 38.1 114.5

39 0.0 24.1 72.2#

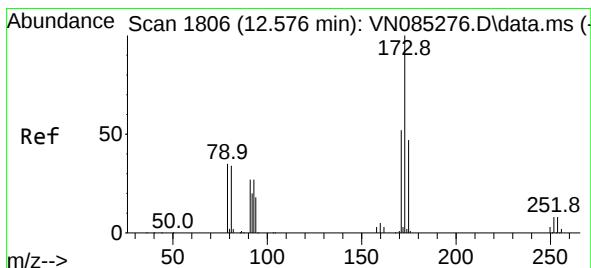
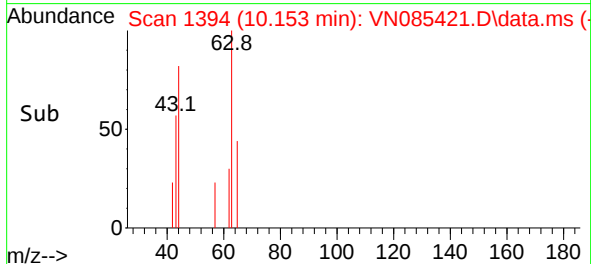
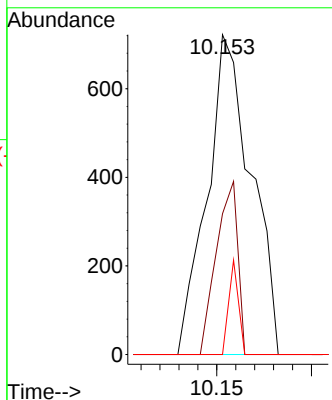
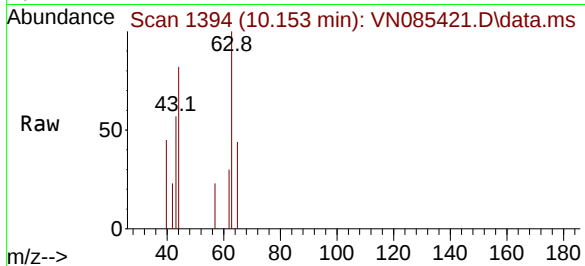




#55
 2-Chloroethyl vinyl ether
 Concen: 0.843 ug/l
 RT: 10.153 min Scan# 1167
 Delta R.T. -0.006 min
 Lab File: VN085421.D
 Acq: 10 Jan 2025 12:21

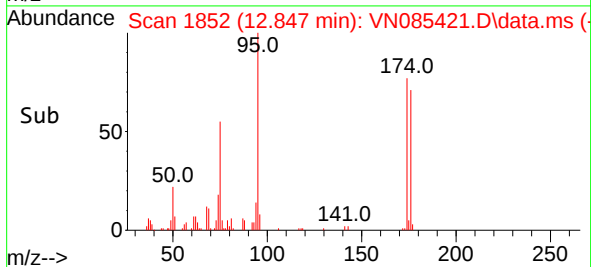
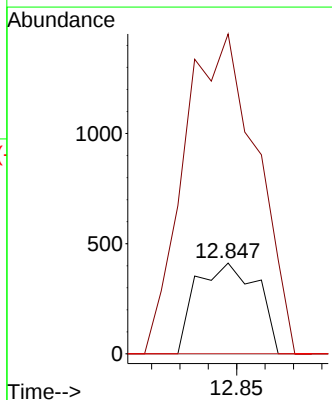
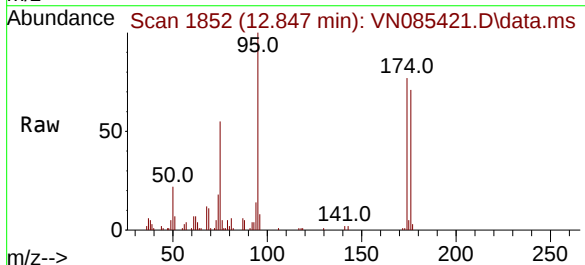
Instrument :
 MSVOA_N
 ClientSampleId :

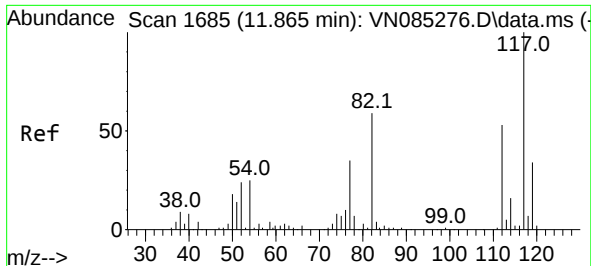
Tgt Ion: 63 Resp: 1167
 Ion Ratio Lower Upper
 63 100
 65 26.4 25.9 38.9
 106 0.0 21.2 31.8#



#56
 Bromoform
 Concen: 0.455 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. 0.271 min
 Lab File: VN085421.D
 Acq: 10 Jan 2025 12:21

Tgt Ion: 173 Resp: 618
 Ion Ratio Lower Upper
 173 100
 175 418.3 39.4 59.2#
 254 0.0 7.2 10.8#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN085421.D

Acq: 10 Jan 2025 12:21

Instrument :

MSVOA_N

ClientSampleId :

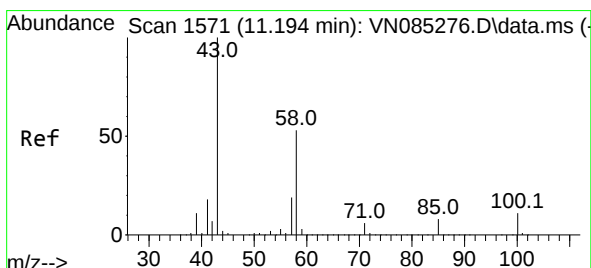
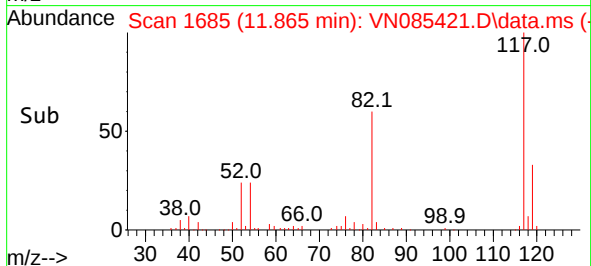
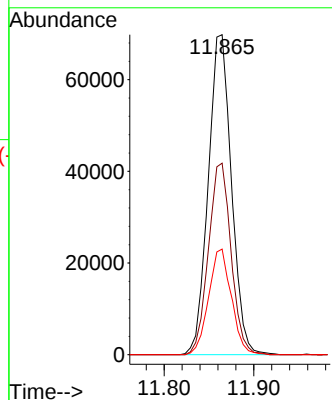
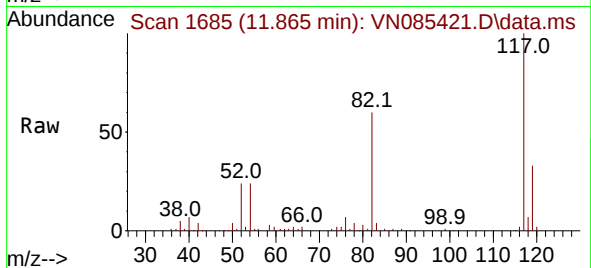
Tgt Ion:117 Resp: 125667

Ion Ratio Lower Upper

117 100

82 58.4 47.4 71.0

119 32.3 25.3 37.9



#59

2-Hexanone

Concen: 0.331 ug/l

RT: 11.188 min Scan# 1570

Delta R.T. -0.006 min

Lab File: VN085421.D

Acq: 10 Jan 2025 12:21

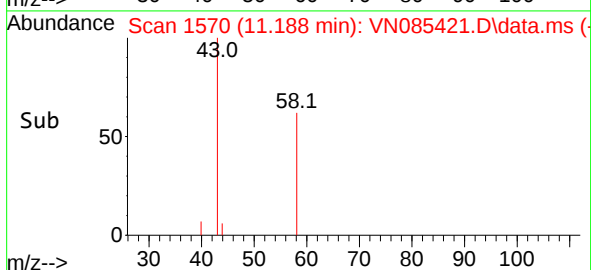
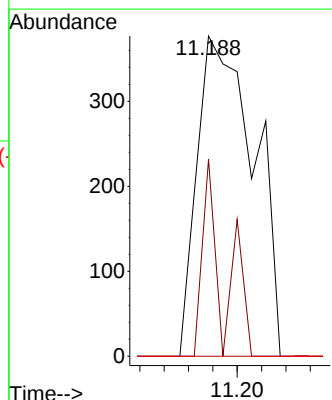
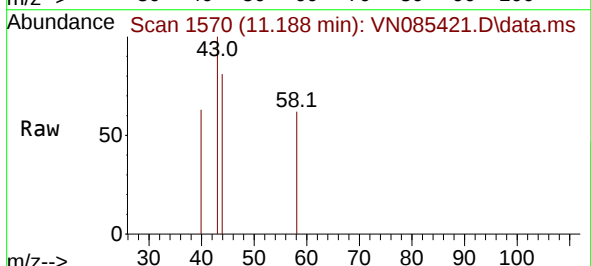
Tgt Ion: 43 Resp: 612

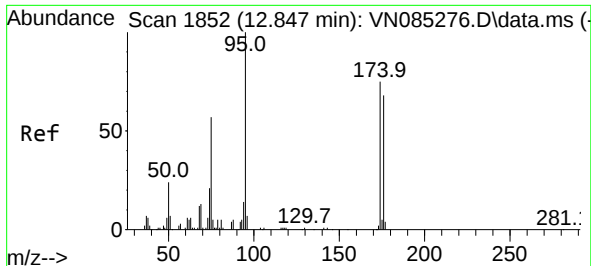
Ion Ratio Lower Upper

43 100

58 13.4 40.2 60.4#

57 0.0 14.2 21.4#

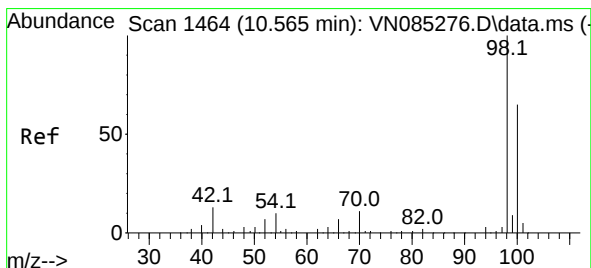
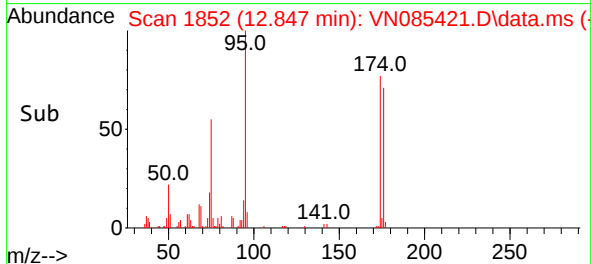
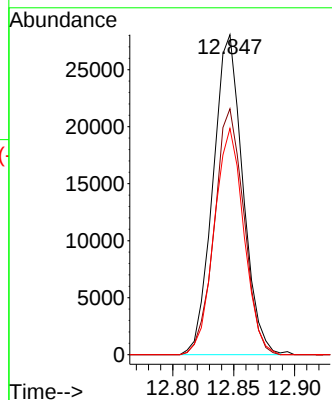
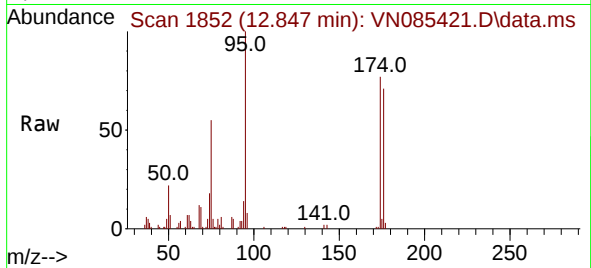




#60
4-Bromofluorobenzene
Concen: 23.473 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085421.D
Acq: 10 Jan 2025 12:21

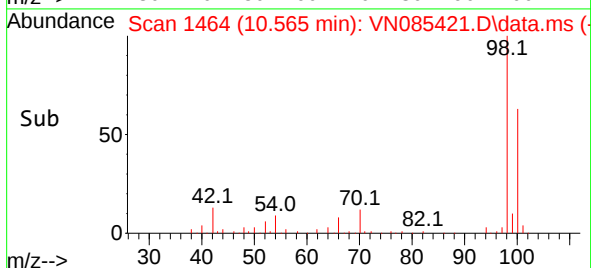
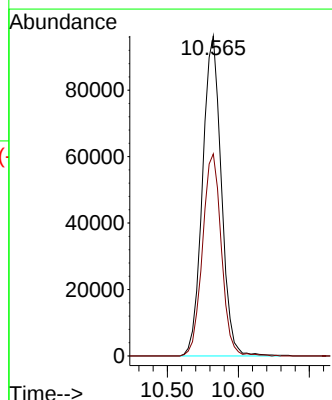
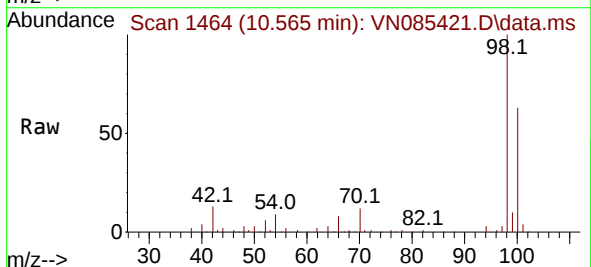
Instrument :
MSVOA_N
ClientSampleId :

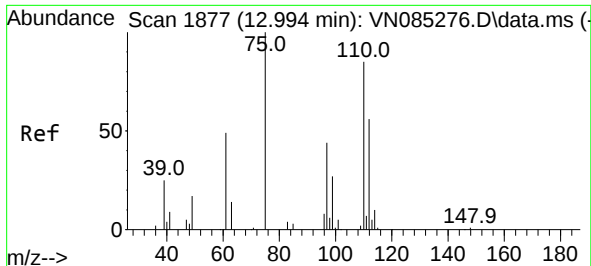
Tgt Ion: 95 Resp: 47781
Ion Ratio Lower Upper
95 100
174 75.9 57.8 86.8
176 70.5 57.1 85.7



#63
Toluene-d8
Concen: 28.918 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN085421.D
Acq: 10 Jan 2025 12:21

Tgt Ion: 98 Resp: 177448
Ion Ratio Lower Upper
98 100
100 62.8 50.8 76.2

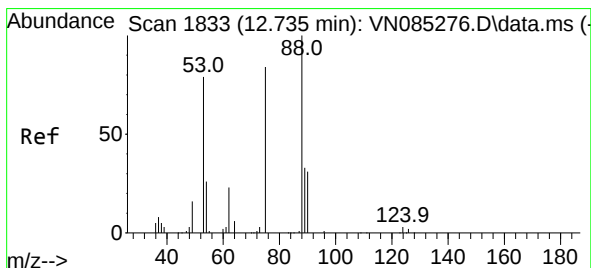
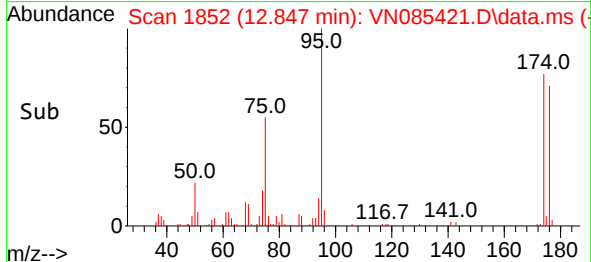
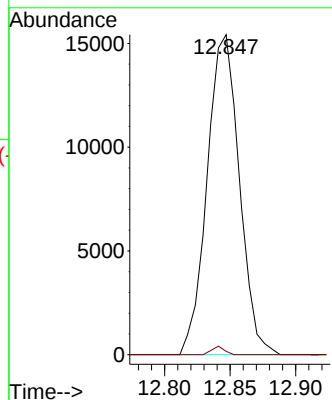
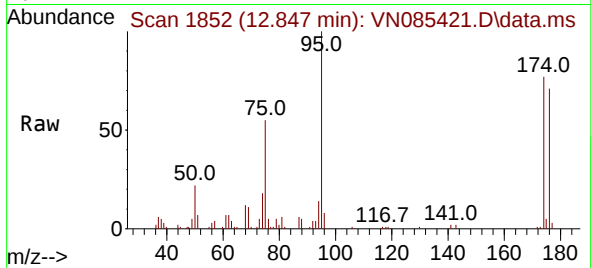




#72
1,2,3-Trichloropropane
Concen: 11.974 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN085421.D
Acq: 10 Jan 2025 12:21

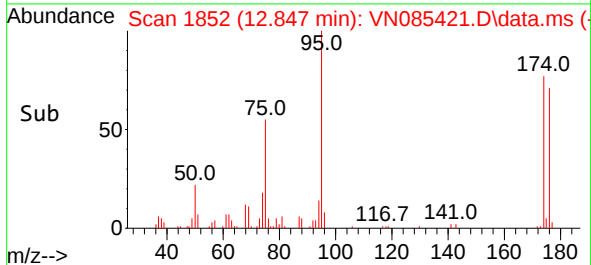
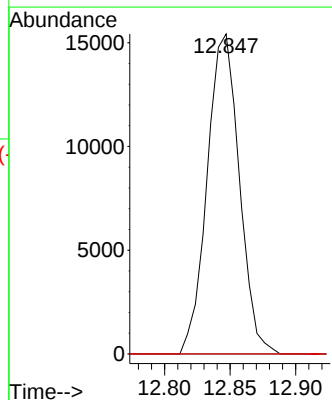
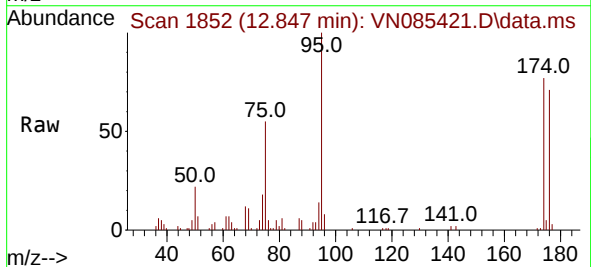
Instrument :
MSVOA_N
ClientSampleId :

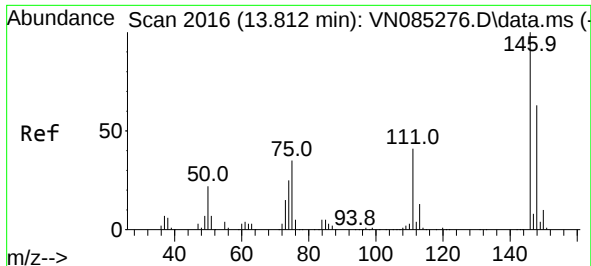
Tgt Ion: 75 Resp: 26348
Ion Ratio Lower Upper
75 100
77 1.0 0.0 407.2



#77
t-1,4-Dichloro-2-butene
Concen: 29.300 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN085421.D
Acq: 10 Jan 2025 12:21

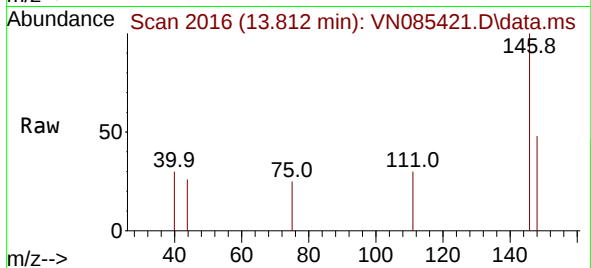
Tgt Ion: 75 Resp: 26348
Ion Ratio Lower Upper
75 100
53 0.0 54.9 164.5#
89 0.0 22.8 68.3#



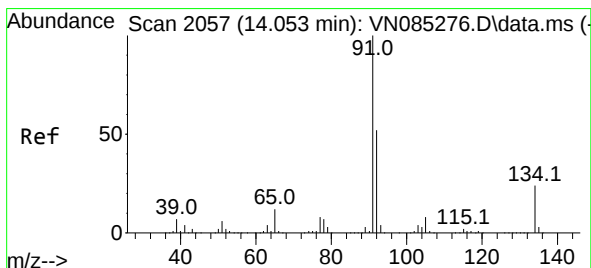
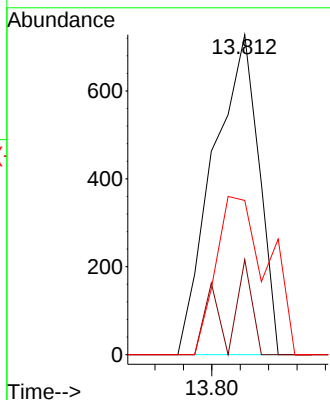
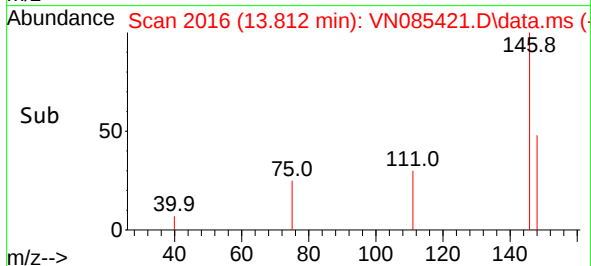


#84
1,4-Dichlorobenzene
Concen: 0.251 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN085421.D
Acq: 10 Jan 2025 12:21

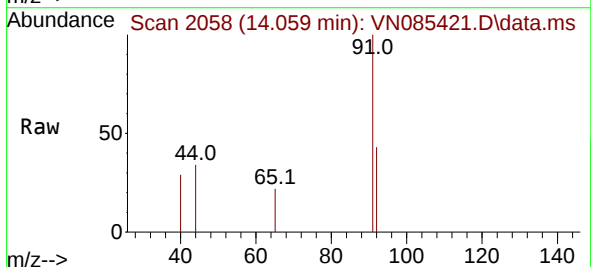
Instrument :
MSVOA_N
ClientSampleId :



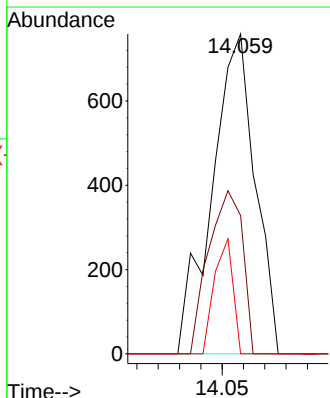
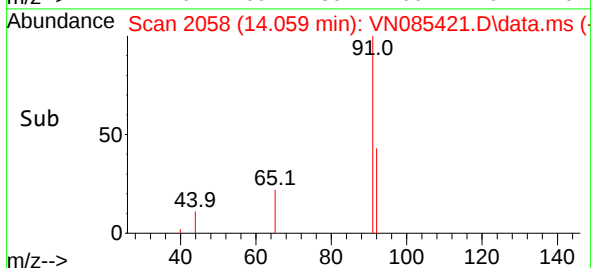
Tgt Ion:146 Resp: 815
Ion Ratio Lower Upper
146 100
111 9.3 20.7 62.1#
148 55.8 33.2 99.6

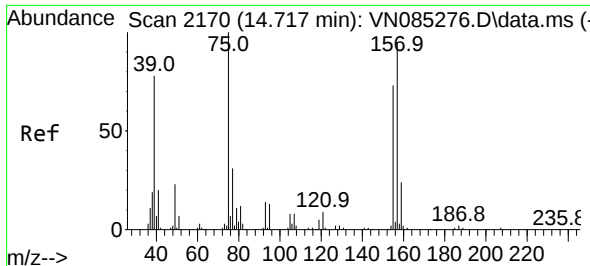


#85
n-Butylbenzene
Concen: 0.205 ug/l
RT: 14.059 min Scan# 2058
Delta R.T. 0.006 min
Lab File: VN085421.D
Acq: 10 Jan 2025 12:21



Tgt Ion: 91 Resp: 1069
Ion Ratio Lower Upper
91 100
92 40.2 0.0 102.0
134 15.4 0.0 46.4

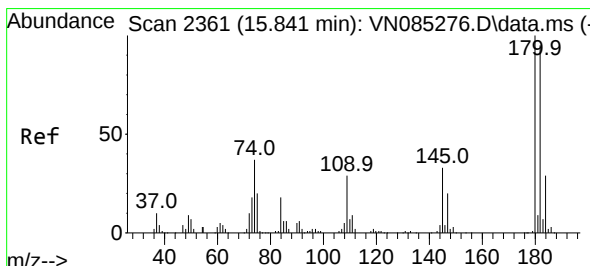
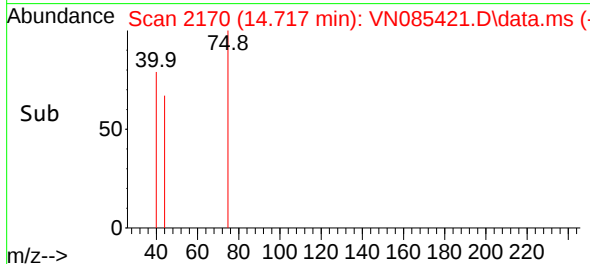
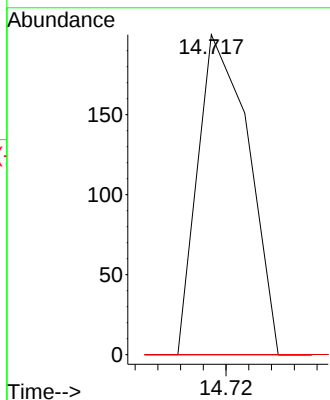
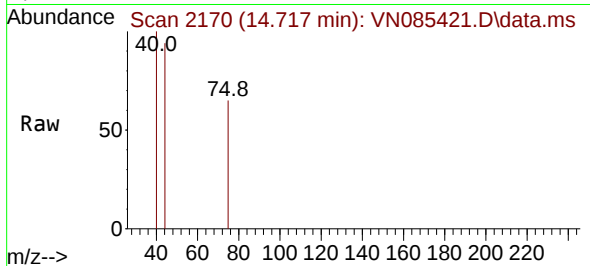




#88
 1,2-Dibromo-3-Chloropropane
 Concen: 0.263 ug/l
 RT: 14.717 min Scan# 2170
 Delta R.T. 0.000 min
 Lab File: VN085421.D
 Acq: 10 Jan 2025 12:21

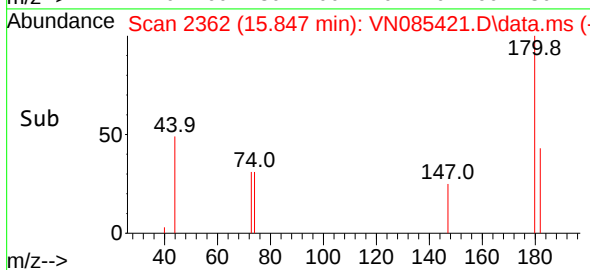
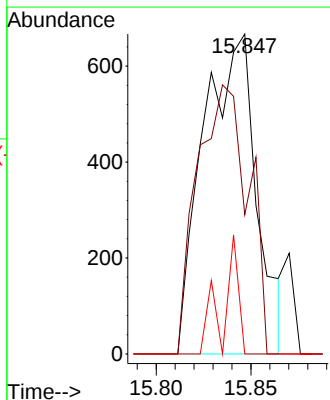
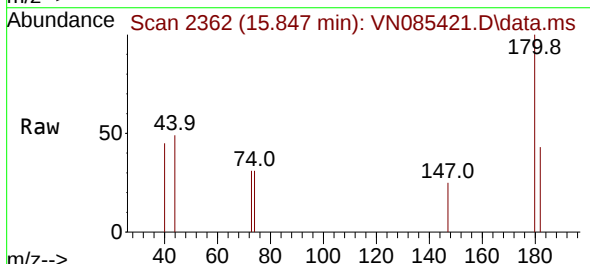
Instrument :
 MSVOA_N
 ClientSampleId :

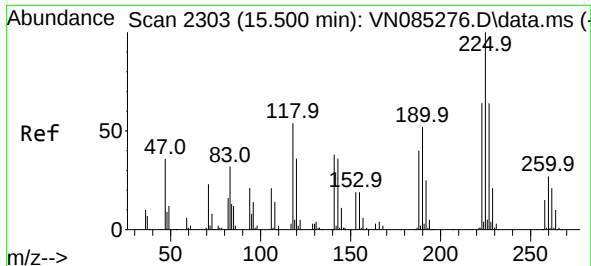
Tgt Ion: 75 Resp: 124
 Ion Ratio Lower Upper
 75 100
 155 0.0 53.4 80.0#
 157 0.0 74.2 111.4#



#89
 1,2,4-Trichlorobenzene
 Concen: 0.862 ug/l
 RT: 15.847 min Scan# 2362
 Delta R.T. 0.012 min
 Lab File: VN085421.D
 Acq: 10 Jan 2025 12:21

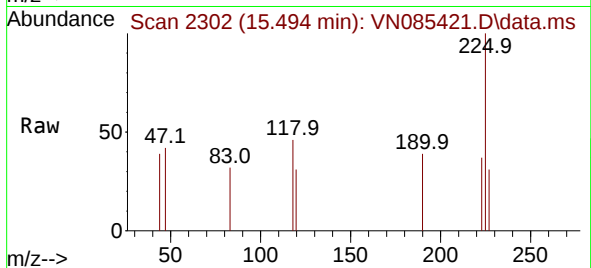
Tgt Ion: 180 Resp: 1303
 Ion Ratio Lower Upper
 180 100
 182 80.6 76.5 114.7
 145 6.7 27.4 41.2#



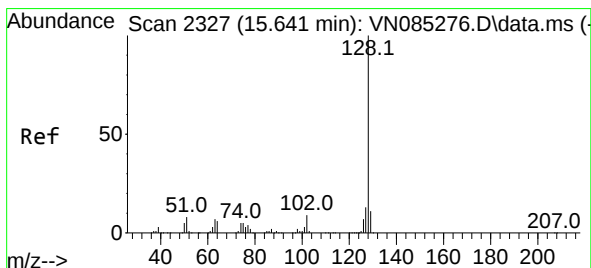
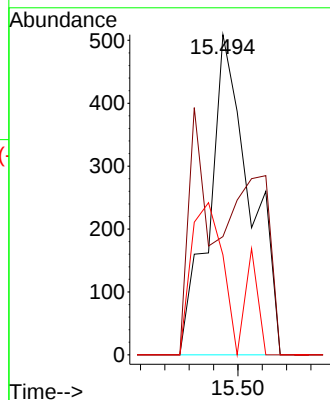
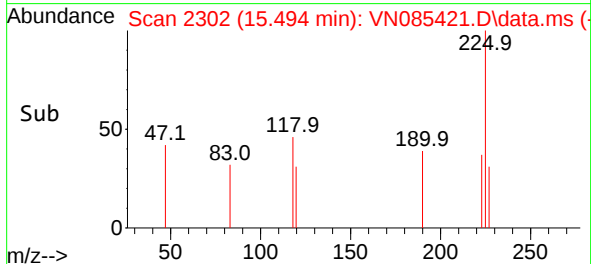


#90
Hexachlorobutadiene
Concen: 0.787 ug/l
RT: 15.494 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN085421.D
Acq: 10 Jan 2025 12:21

Instrument :
MSVOA_N
ClientSampleId :

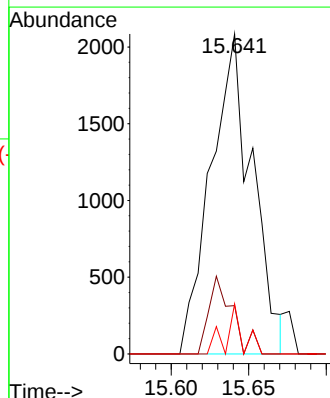
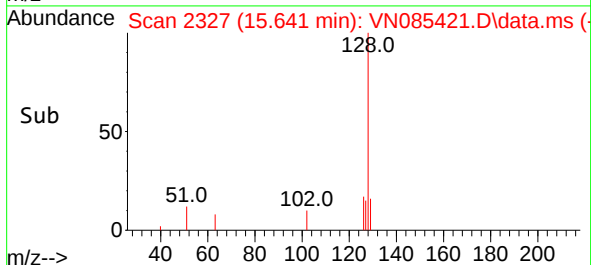
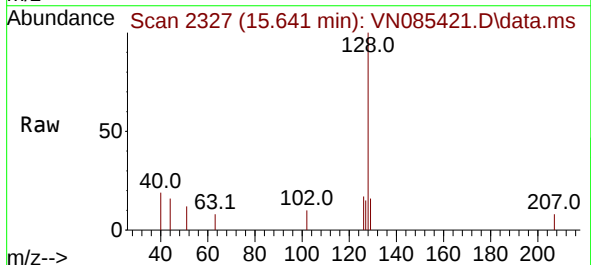


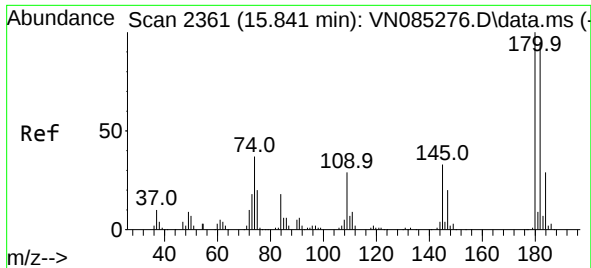
Tgt Ion:225 Resp: 593
Ion Ratio Lower Upper
225 100
223 33.7 0.0 116.2
227 36.4 0.0 116.4



#91
Naphthalene
Concen: 0.798 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.000 min
Lab File: VN085421.D
Acq: 10 Jan 2025 12:21

Tgt Ion:128 Resp: 3877
Ion Ratio Lower Upper
128 100
127 0.0 10.6 16.0#
129 3.0 8.6 13.0#





#92

1,2,3-Trichlorobenzene

Concen: 0.862 ug/l

RT: 15.847 min Scan# 21

Delta R.T. 0.012 min

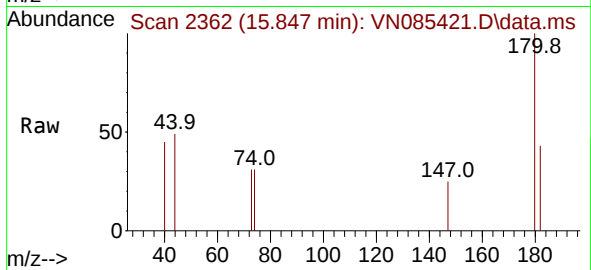
Lab File: VN085421.D

Acq: 10 Jan 2025 12:21

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:180 Resp: 1303

Ion Ratio Lower Upper

180 100

182 80.6 0.0 191.2

145 6.7 0.0 68.6

