

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100124\
 Data File : VN084236.D
 Acq On : 01 Oct 2024 13:54
 Operator : JC\MD
 Sample : P4116-24DL 2X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE132D5-20240918DL

Quant Time: Oct 02 02:02:12 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 01 07:11:01 2024
 Response via : Initial Calibration

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

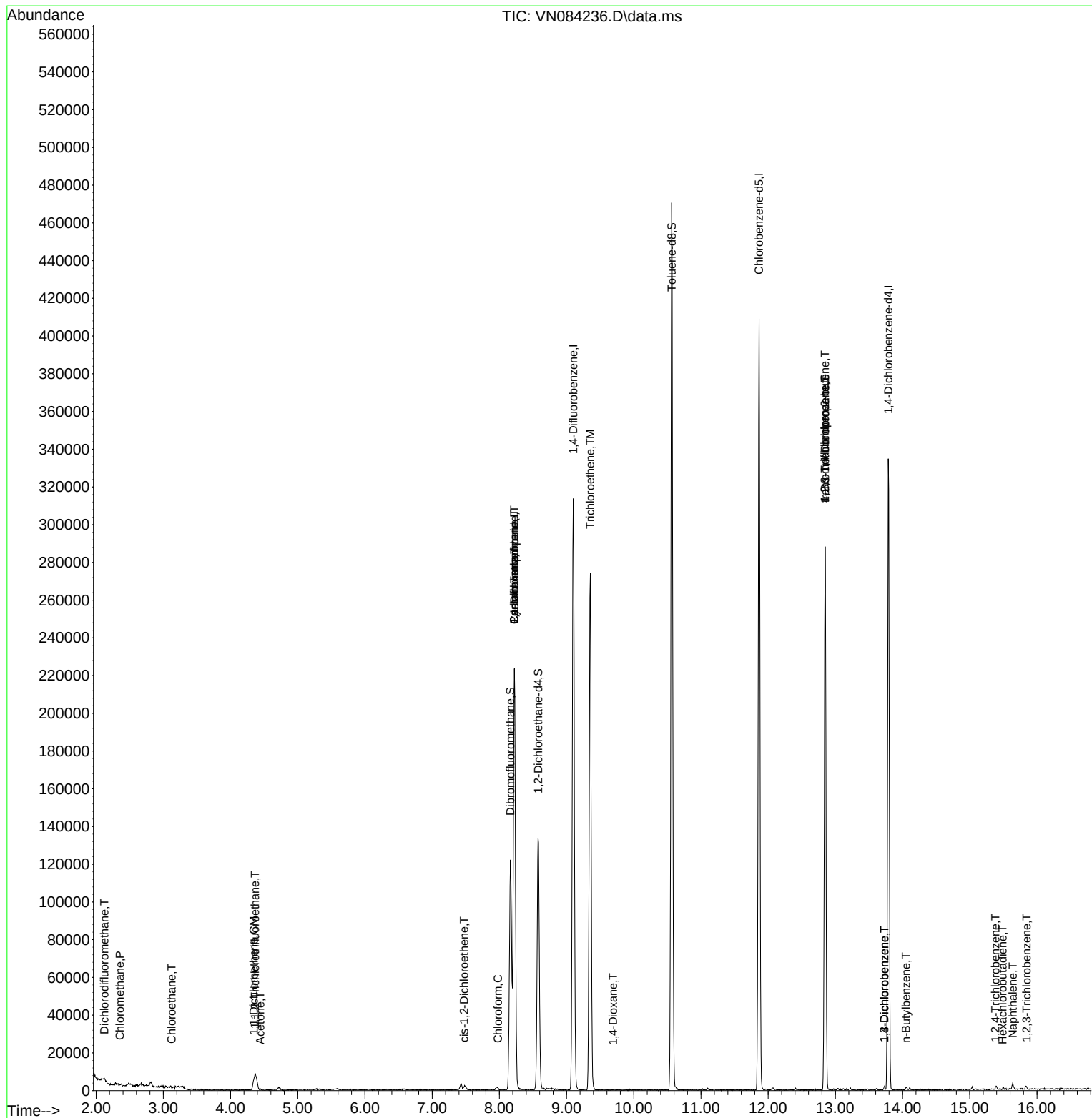
Internal Standards						
1) Pentafluorobenzene	8.224	168	155967	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	268563	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	227956	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	88047	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	113462	49.065	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	98.120%
35) Dibromofluoromethane	8.165	113	87699	49.532	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	99.060%
50) Toluene-d8	10.565	98	321801	49.402	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	98.800%
62) 4-Bromofluorobenzene	12.847	95	103054	43.426	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	86.860%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	1111	0.602	ug/l	79
3) Chloromethane	2.354	50	688	0.327	ug/l #	41
6) Chloroethane	3.124	64	348	0.238	ug/l #	45
9) 1,1,2-Trichlorotrifluo...	4.365	101	5938	3.262	ug/l	90
12) 1,1-Dichloroethene	4.348	96	1577	0.898	ug/l	86
16) Acetone	4.442	43	784	0.789	ug/l #	44
27) cis-1,2-Dichloroethene	7.477	96	698	0.314	ug/l	20
30) Chloroform	7.977	83	1830	0.499	ug/l	88
31) Cyclohexane	8.224	56	3852	1.125	ug/l #	19
36) 1,1-Dichloropropene	8.224	75	13901	5.405	ug/l #	50
38) Carbon Tetrachloride	8.224	117	17291	6.129	ug/l #	16
44) Trichloroethene	9.353	130	95879	51.232	ug/l	96
49) 1,4-Dioxane	9.694	88	308	8.132	ug/l #	53
76) 1,2,3-Trichloropropane	12.847	75	53643	29.843	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	53643	71.547	ug/l #	11
87) 1,3-Dichlorobenzene	13.729	146	683	0.225	ug/l	96
88) 1,4-Dichlorobenzene	13.729	146	683	0.222	ug/l	96
89) n-Butylbenzene	14.053	91	1254	0.257	ug/l	79
93) 1,2,4-Trichlorobenzene	15.382	180	785	0.535	ug/l	92
94) Hexachlorobutadiene	15.488	225	438	0.598	ug/l	73
95) Naphthalene	15.641	128	3237	0.665	ug/l #	93
96) 1,2,3-Trichlorobenzene	15.847	180	968	0.659	ug/l	93

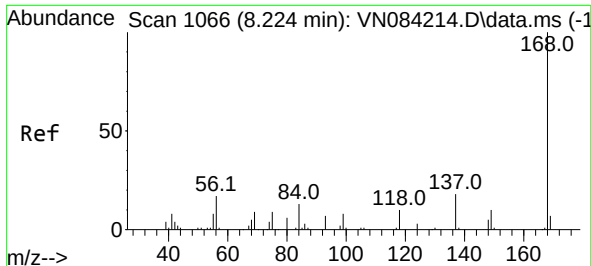
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_N
ClientSampleId :
RE132D5-20240918DL

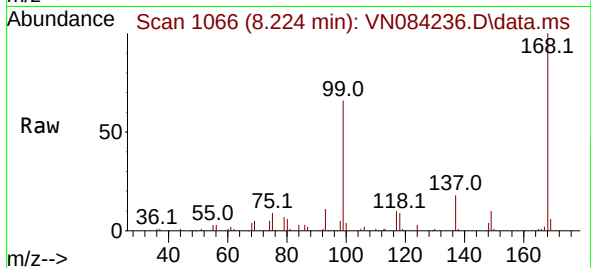
Quant Time: Oct 02 02:02:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration



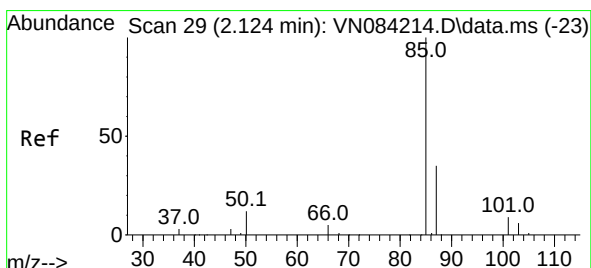
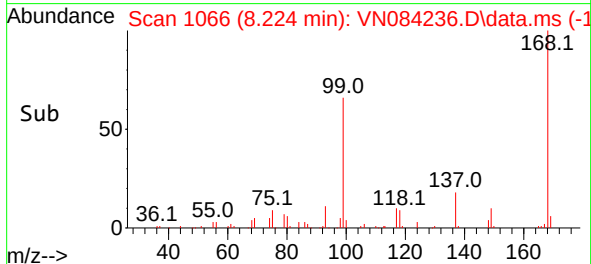
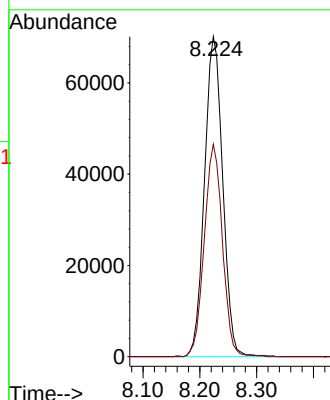


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN084236.D
Acq: 01 Oct 2024 13:54

Instrument :
MSVOA_N
ClientSampleId :
RE132D5-20240918DL

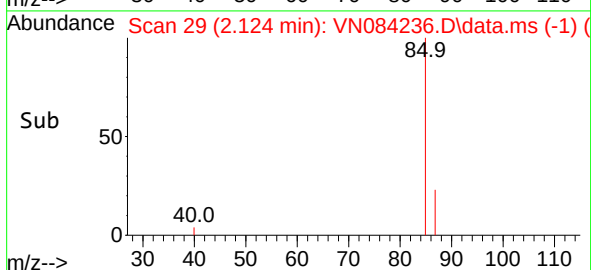
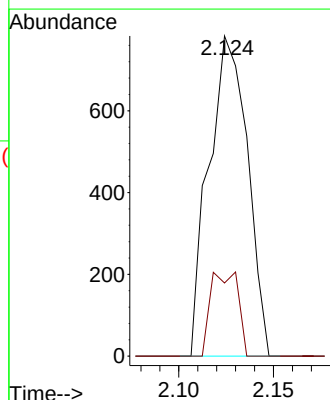
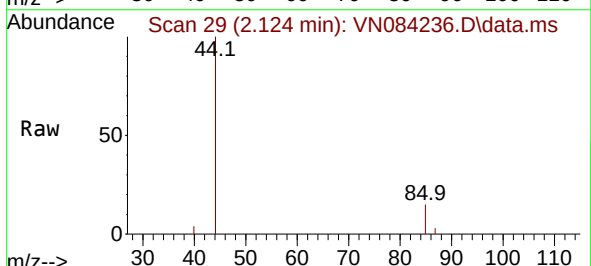


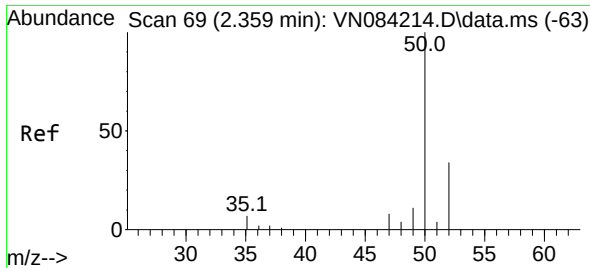
Tgt Ion:168 Resp: 155967
Ion Ratio Lower Upper
168 100
99 66.4 54.2 81.2



#2
Dichlorodifluoromethane
Concen: 0.602 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN084236.D
Acq: 01 Oct 2024 13:54

Tgt Ion: 85 Resp: 1111
Ion Ratio Lower Upper
85 100
87 22.9 17.6 52.9

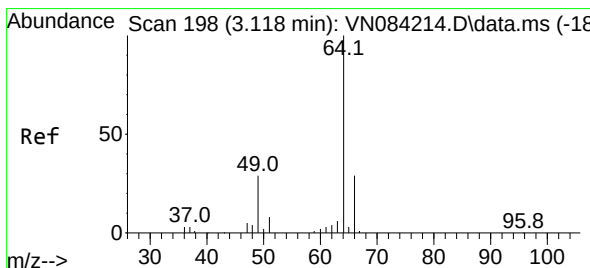
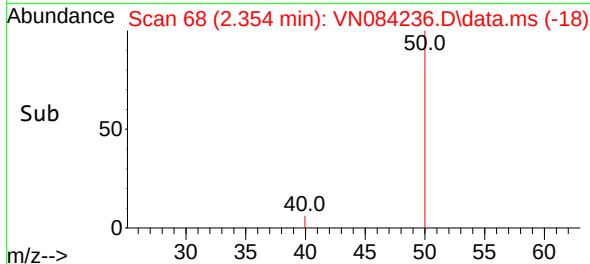
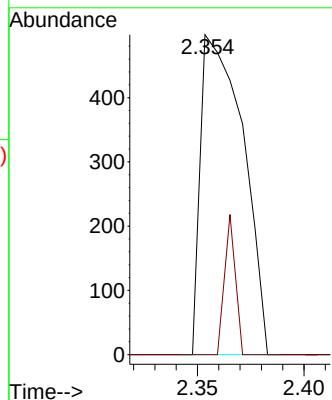
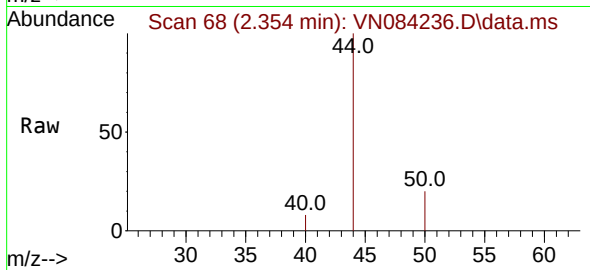




#3
Chloromethane
Concen: 0.327 ug/l
RT: 2.354 min Scan# 61
Delta R.T. -0.006 min
Lab File: VN084236.D
Acq: 01 Oct 2024 13:54

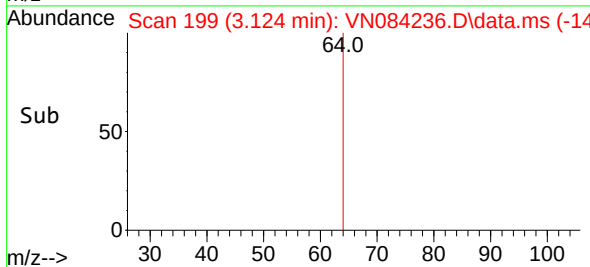
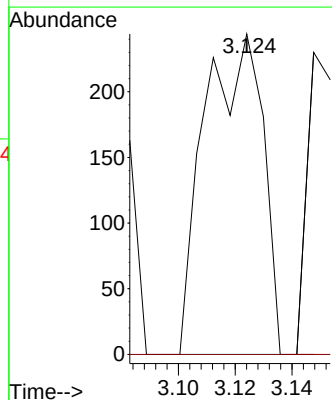
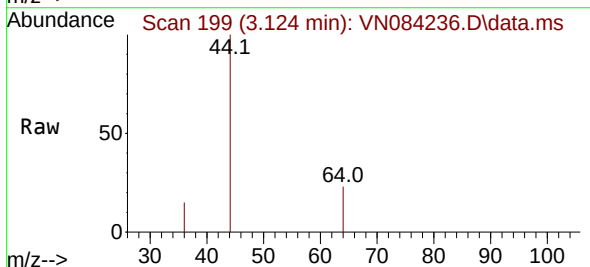
Instrument :
MSVOA_N
ClientSampleId :
RE132D5-20240918DL

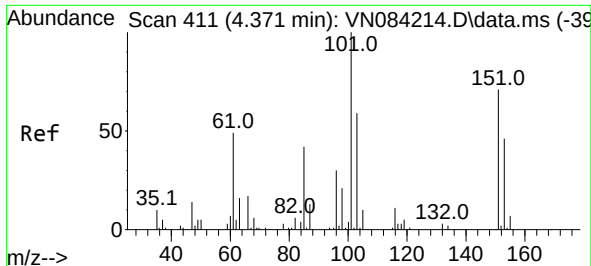
Tgt Ion: 50 Resp: 688
Ion Ratio Lower Upper
50 100
52 0.0 26.8 40.2#



#6
Chloroethane
Concen: 0.238 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.006 min
Lab File: VN084236.D
Acq: 01 Oct 2024 13:54

Tgt Ion: 64 Resp: 348
Ion Ratio Lower Upper
64 100
66 0.0 23.5 35.3#

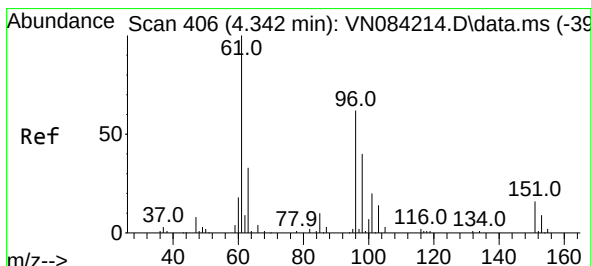
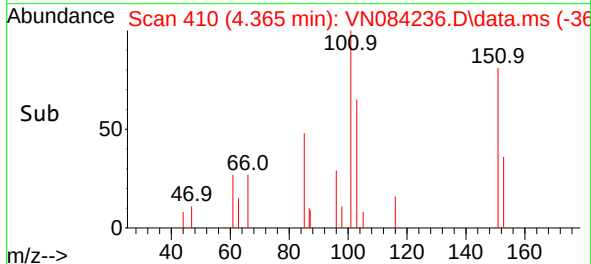
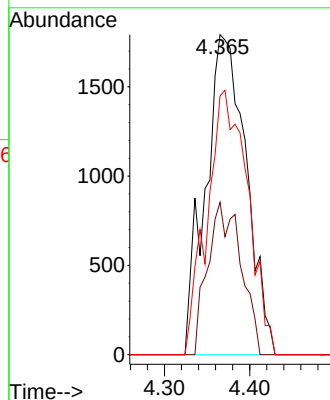
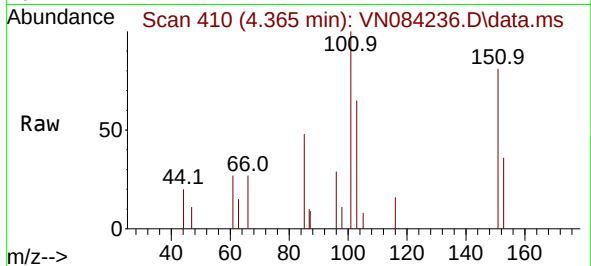




#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 3.262 ug/l
 RT: 4.365 min Scan# 411
 Delta R.T. -0.006 min
 Lab File: VN084236.D
 Acq: 01 Oct 2024 13:54

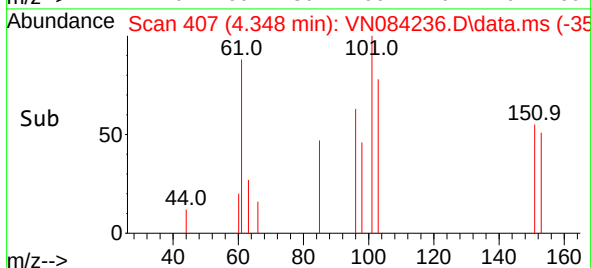
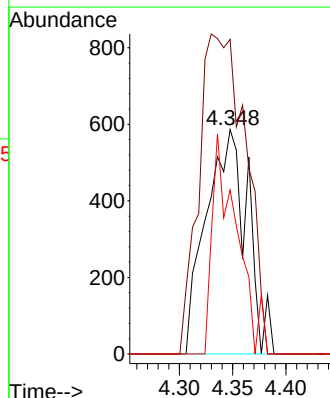
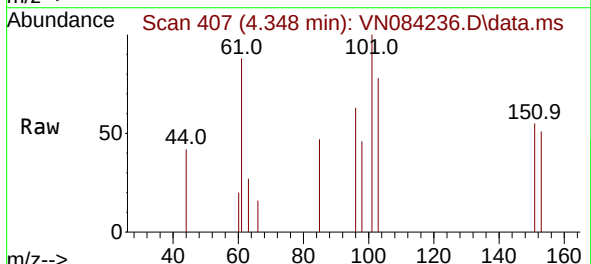
Instrument :
 MSVOA_N
 ClientSampleId :
 RE132D5-20240918DL

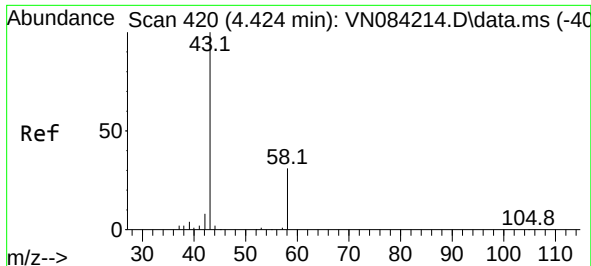
Tgt Ion:101 Resp: 5938
 Ion Ratio Lower Upper
 101 100
 85 39.1 36.2 54.4
 151 82.5 59.3 88.9



#12
 1,1-Dichloroethene
 Concen: 0.898 ug/l
 RT: 4.348 min Scan# 407
 Delta R.T. 0.006 min
 Lab File: VN084236.D
 Acq: 01 Oct 2024 13:54

Tgt Ion: 96 Resp: 1577
 Ion Ratio Lower Upper
 96 100
 61 140.3 128.6 192.8
 98 73.0 51.7 77.5





#16

Acetone

Concen: 0.789 ug/l

RT: 4.442 min Scan# 41

Delta R.T. 0.018 min

Lab File: VN084236.D

Acq: 01 Oct 2024 13:54

Instrument :

MSVOA_N

ClientSampleId :

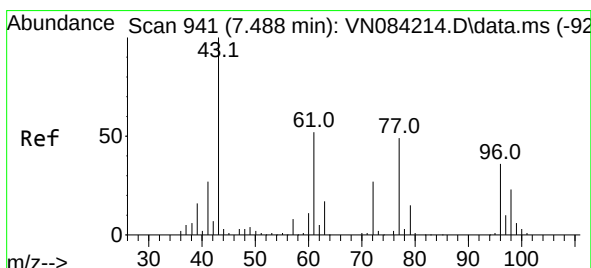
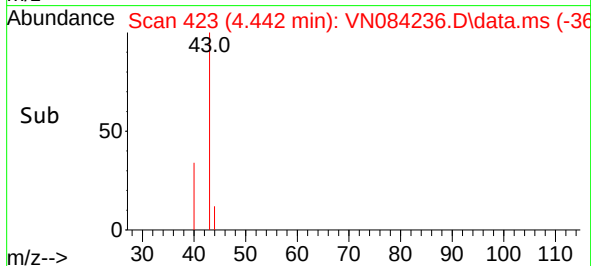
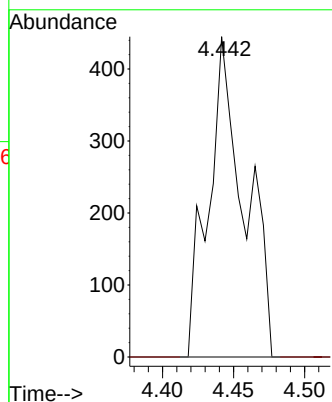
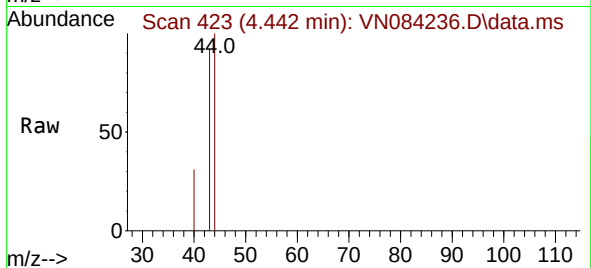
RE132D5-20240918DL

Tgt Ion: 43 Resp: 784

Ion Ratio Lower Upper

43 100

58 0.0 24.4 36.6#



#27

cis-1,2-Dichloroethene

Concen: 0.314 ug/l

RT: 7.477 min Scan# 939

Delta R.T. -0.012 min

Lab File: VN084236.D

Acq: 01 Oct 2024 13:54

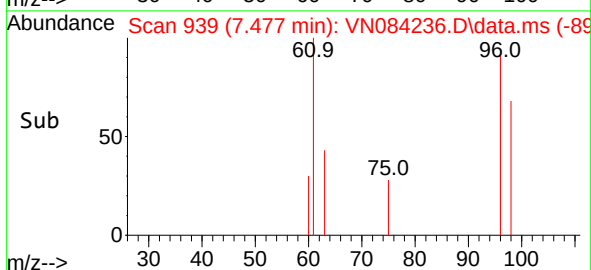
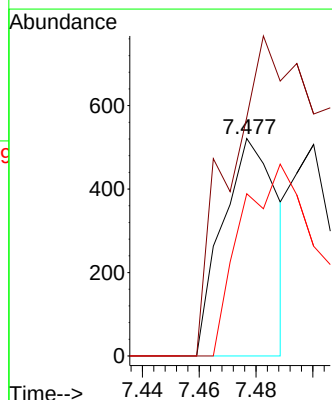
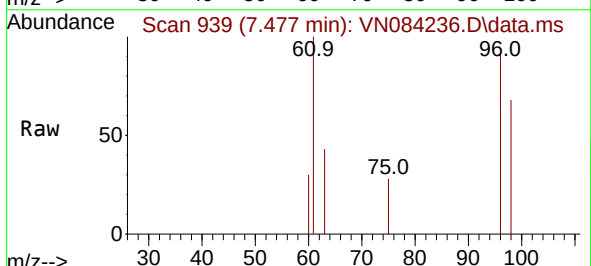
Tgt Ion: 96 Resp: 698

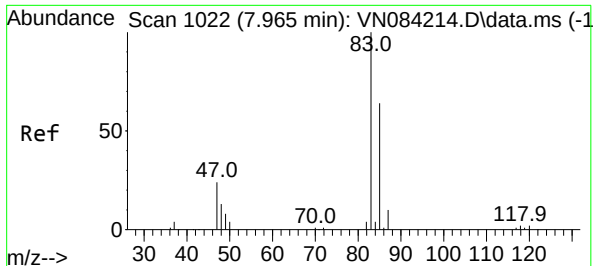
Ion Ratio Lower Upper

96 100

61 260.5 0.0 301.8

98 116.0 0.0 128.2





#30

Chloroform

Concen: 0.499 ug/l

RT: 7.977 min Scan# 1066

Delta R.T. 0.012 min

Lab File: VN084236.D

Acq: 01 Oct 2024 13:54

Instrument :

MSVOA_N

ClientSampleId :

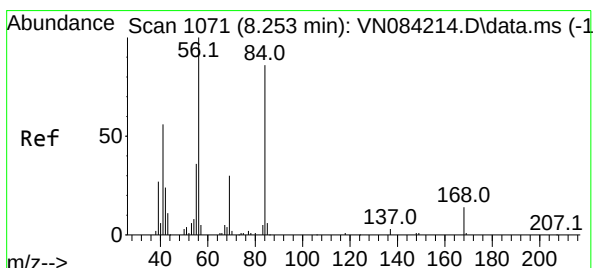
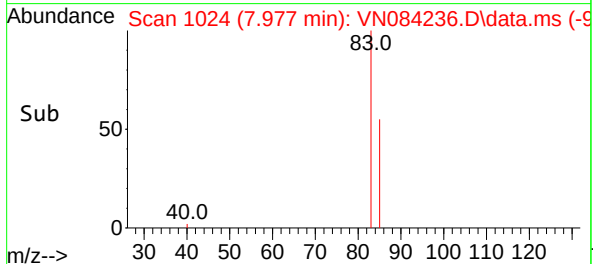
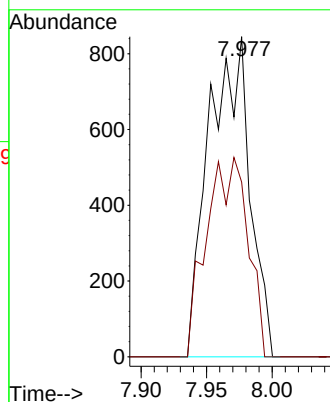
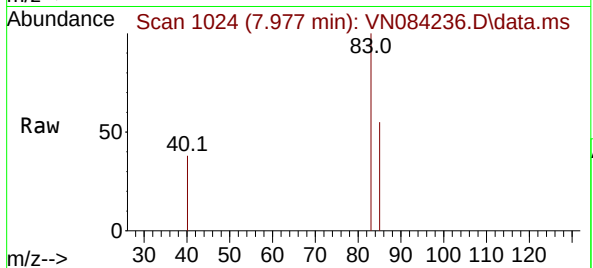
RE132D5-20240918DL

Tgt Ion: 83 Resp: 1830

Ion Ratio Lower Upper

83 100

85 54.6 51.0 76.4



#31

Cyclohexane

Concen: 1.125 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.029 min

Lab File: VN084236.D

Acq: 01 Oct 2024 13:54

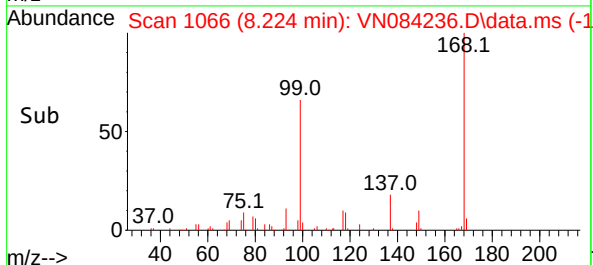
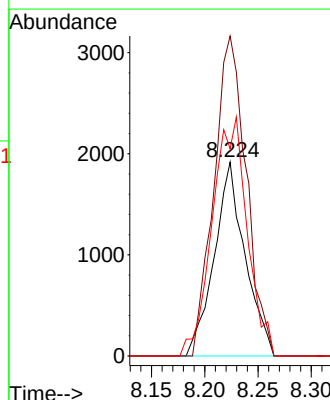
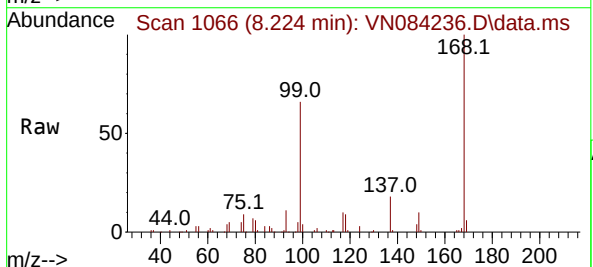
Tgt Ion: 56 Resp: 3852

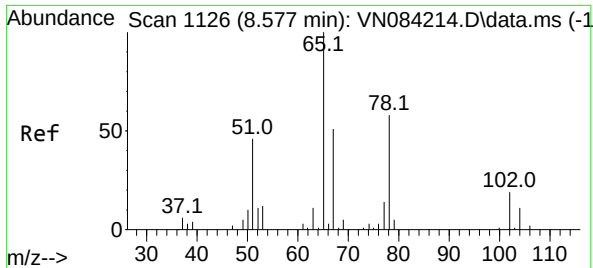
Ion Ratio Lower Upper

56 100

69 165.0 23.8 35.6#

84 106.9 68.8 103.2#





#33

1,2-Dichloroethane-d4

Concen: 49.065 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN084236.D

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Instrument :

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ClientSampleId :

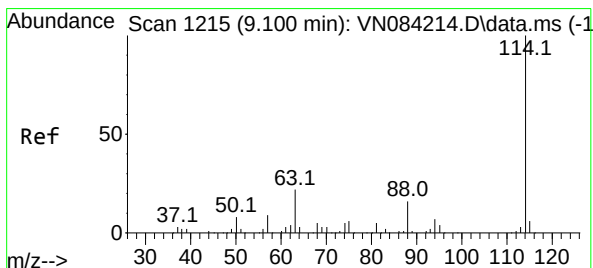
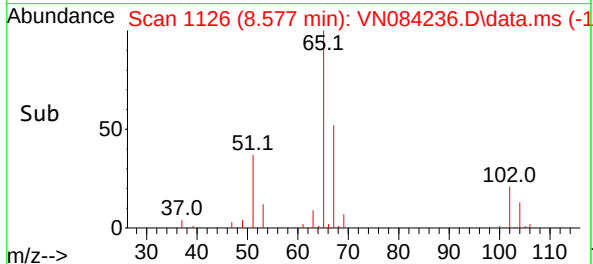
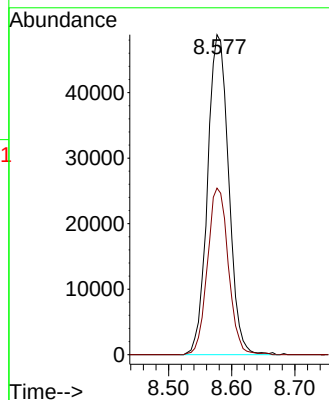
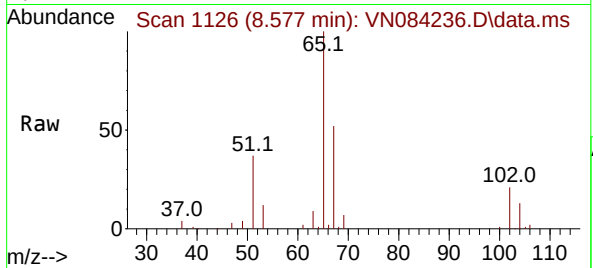
RE132D5-20240918DL

Tgt Ion: 65 Resp: 113462

Ion Ratio Lower Upper

65 100

67 51.6 0.0 102.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN084236.D

Acq: 01 Oct 2024 13:54

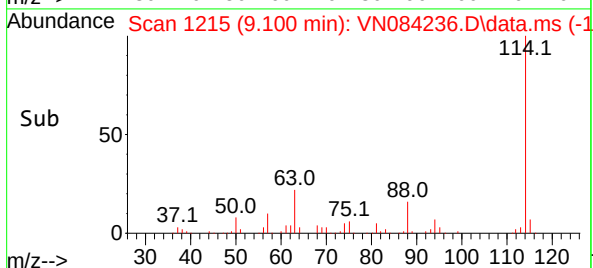
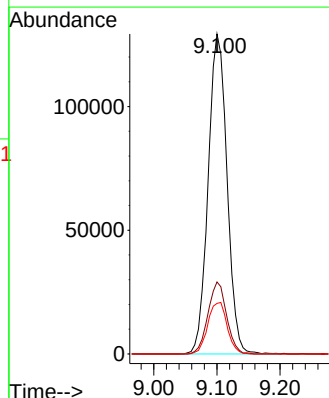
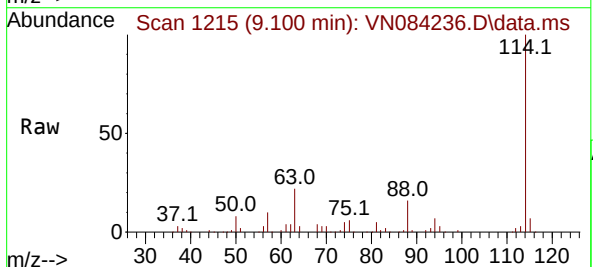
Tgt Ion: 114 Resp: 268563

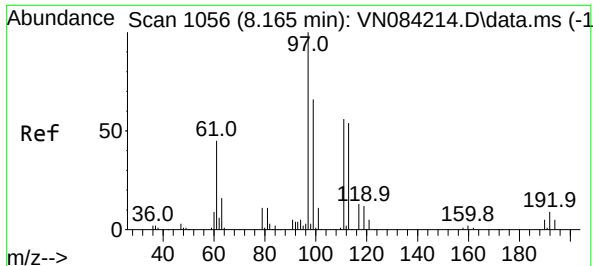
Ion Ratio Lower Upper

114 100

63 22.5 0.0 43.8

88 15.8 0.0 31.6

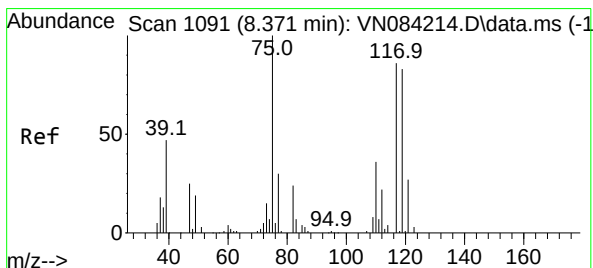
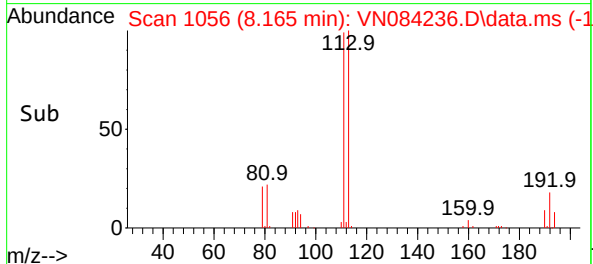
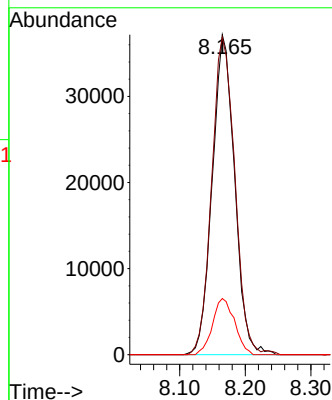
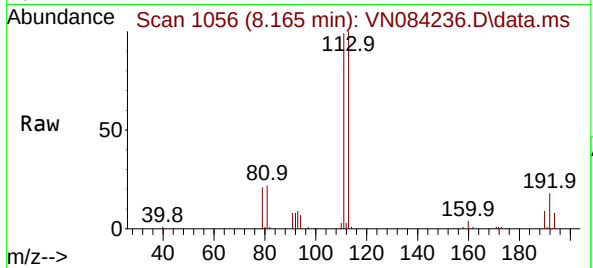




#35
Dibromofluoromethane
Concen: 49.532 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN084236.D
Acq: 01 Oct 2024 13:54

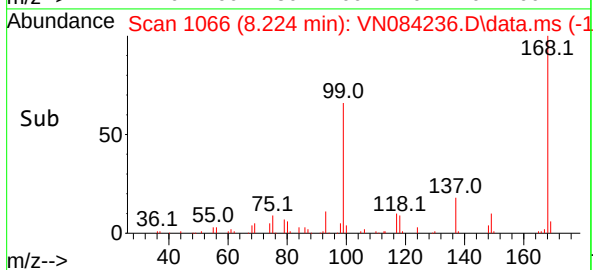
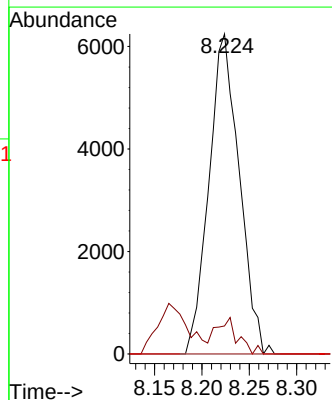
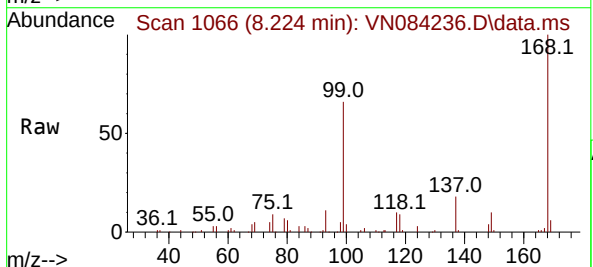
Instrument :
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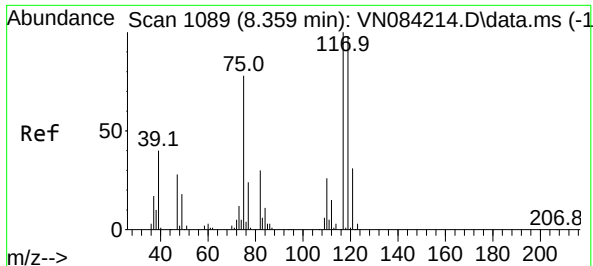
Tgt Ion:113 Resp: 87699
Ion Ratio Lower Upper
113 100
111 102.8 83.3 124.9
192 17.4 13.5 20.3



#36
1,1-Dichloropropene
Concen: 5.405 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.147 min
Lab File: VN084236.D
Acq: 01 Oct 2024 13:54

Tgt Ion: 75 Resp: 13901
Ion Ratio Lower Upper
75 100
110 8.2 16.9 50.7#
77 0.0 24.7 37.1#

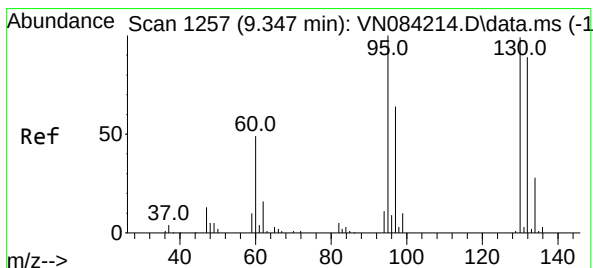
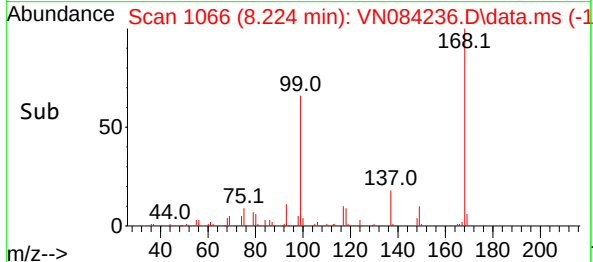
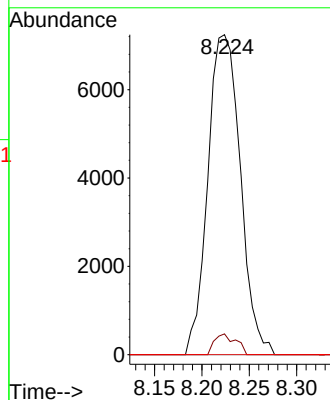
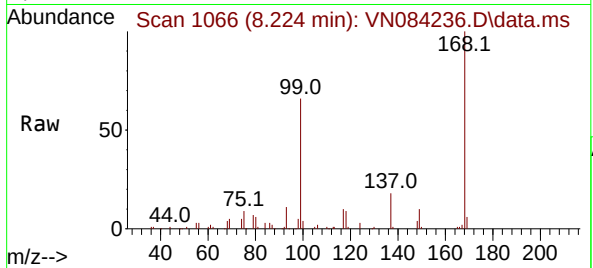




#38
Carbon Tetrachloride
Concen: 6.129 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.135 min
Lab File: VN084236.D
Acq: 01 Oct 2024 13:54

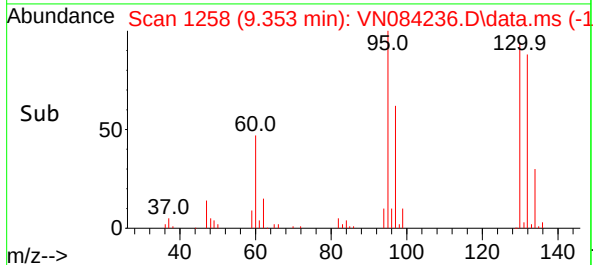
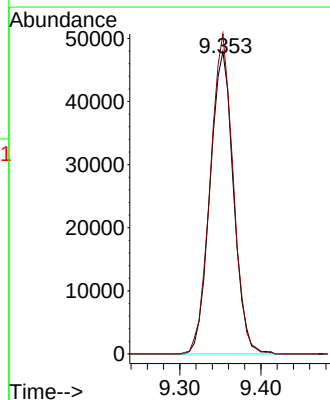
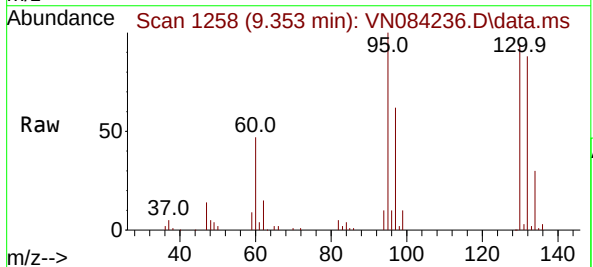
Instrument :
MSVOA_N
ClientSampleId :
RE132D5-20240918DL

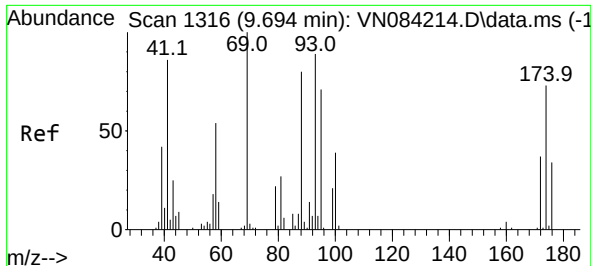
Tgt Ion:117 Resp: 17291
Ion Ratio Lower Upper
117 100
119 6.5 78.7 118.1#
121 0.0 24.4 36.6#



#44
Trichloroethene
Concen: 51.232 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. 0.006 min
Lab File: VN084236.D
Acq: 01 Oct 2024 13:54

Tgt Ion:130 Resp: 95879
Ion Ratio Lower Upper
130 100
95 105.8 0.0 203.0





#49

1,4-Dioxane

Concen: 8.132 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. 0.000 min

Lab File: VN084236.D

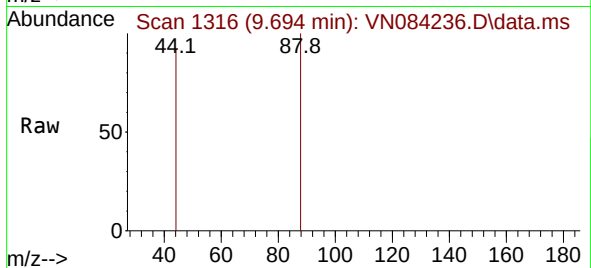
Acq: 01 Oct 2024 13:54

Instrument :

MSVOA_N

ClientSampleId :

RE132D5-20240918DL



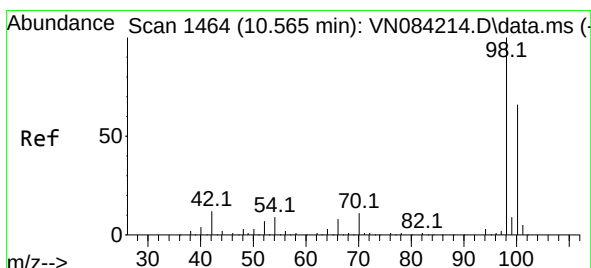
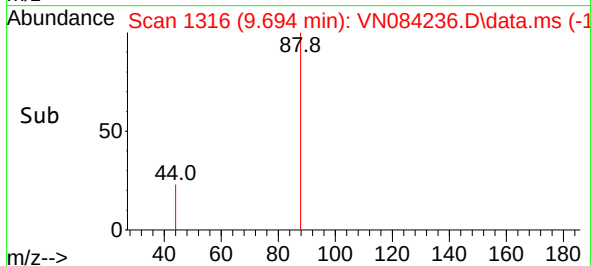
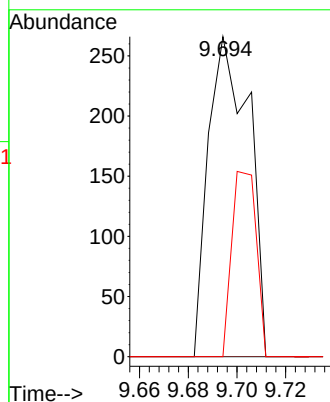
Tgt Ion: 88 Resp: 308

Ion Ratio Lower Upper

88 100

43 0.0 25.3 37.9#

58 35.1 56.4 84.6#



#50

Toluene-d8

Concen: 49.402 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN084236.D

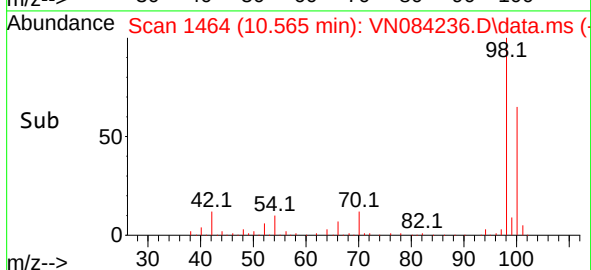
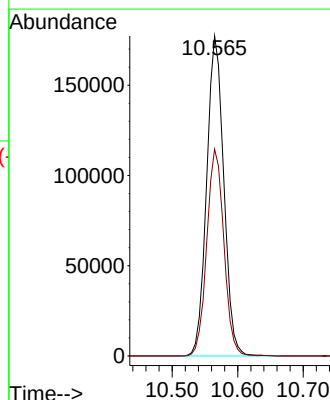
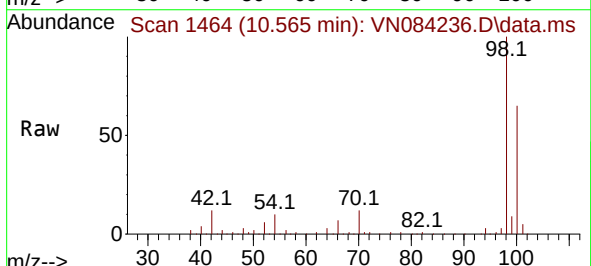
Acq: 01 Oct 2024 13:54

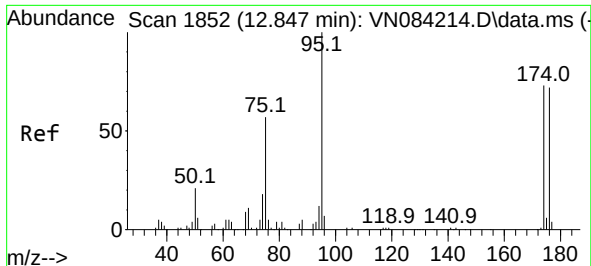
Tgt Ion: 98 Resp: 321801

Ion Ratio Lower Upper

98 100

100 64.6 52.7 79.1





#62

4-Bromofluorobenzene

Concen: 43.426 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.000 min

Lab File: VN084236.D

Acq: 01 Oct 2024 13:54

Instrument :

MSVOA_N

ClientSampleId :

RE132D5-20240918DL

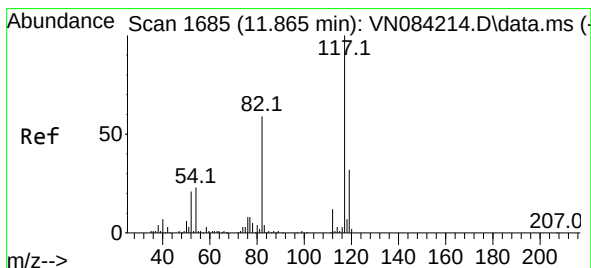
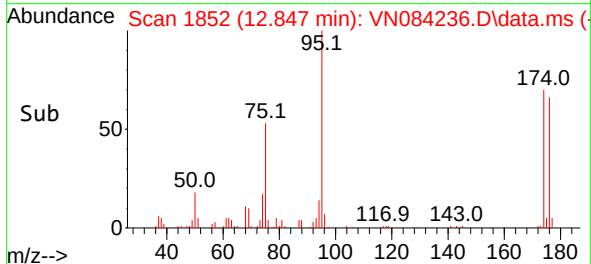
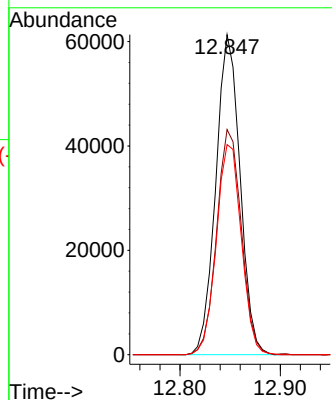
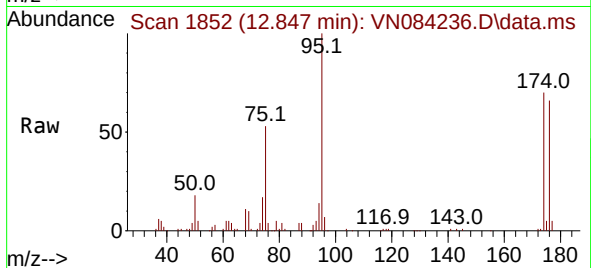
Tgt Ion: 95 Resp: 103054

Ion Ratio Lower Upper

95 100

174 71.6 0.0 145.2

176 67.6 0.0 140.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. 0.000 min

Lab File: VN084236.D

Acq: 01 Oct 2024 13:54

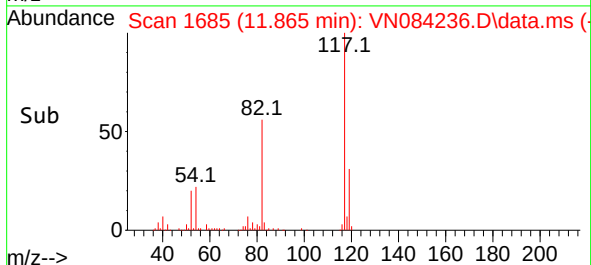
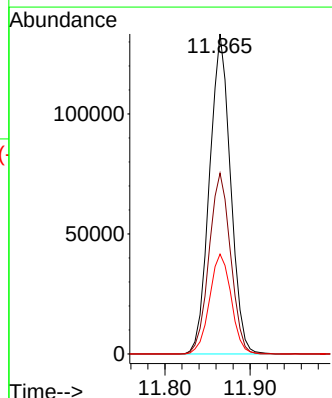
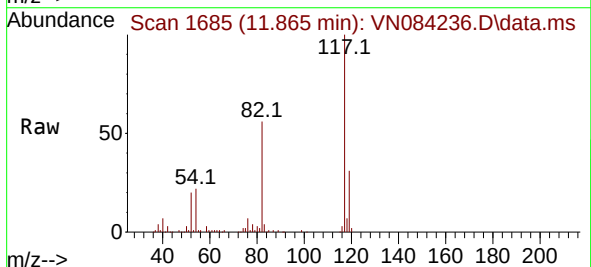
Tgt Ion: 117 Resp: 227956

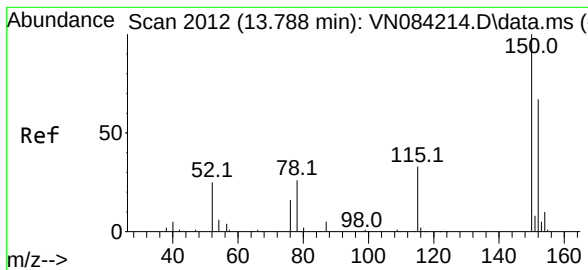
Ion Ratio Lower Upper

117 100

82 56.5 47.2 70.8

119 31.2 25.4 38.0

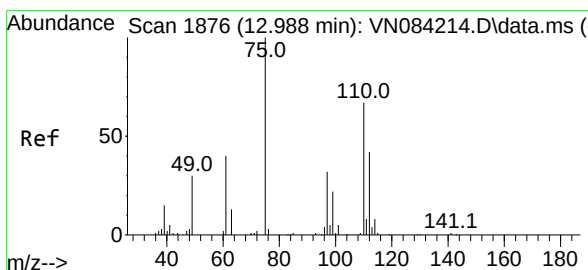
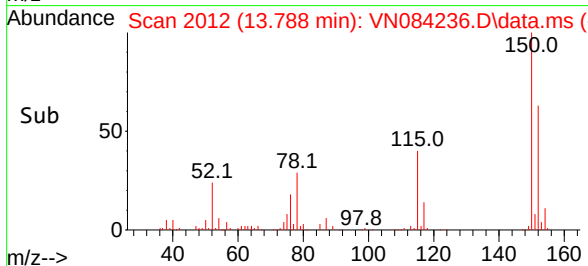
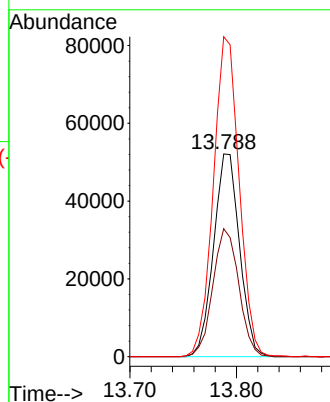
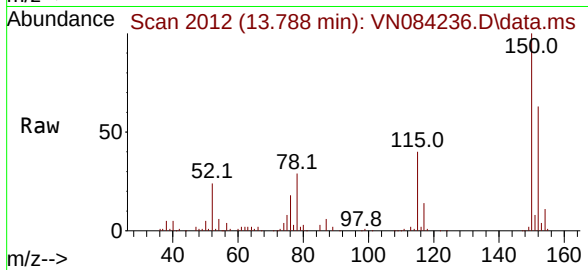




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 2012
 Delta R.T. 0.000 min
 Lab File: VN084236.D
 Acq: 01 Oct 2024 13:54

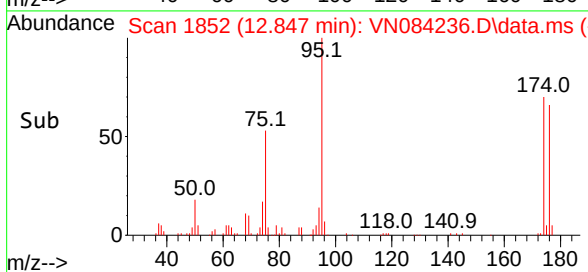
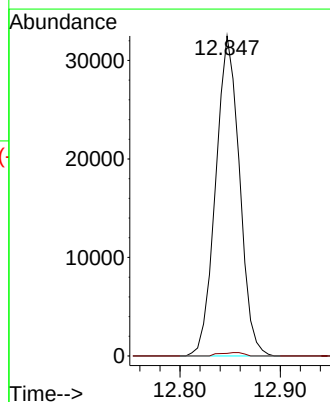
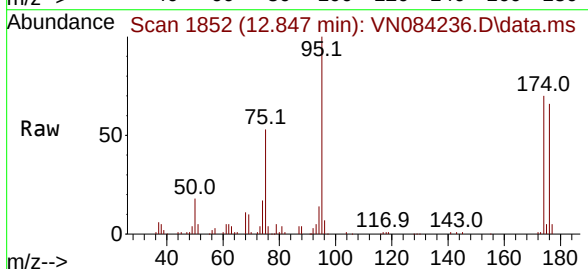
Instrument :
 MSVOA_N
 ClientSampleId :
 RE132D5-20240918DL

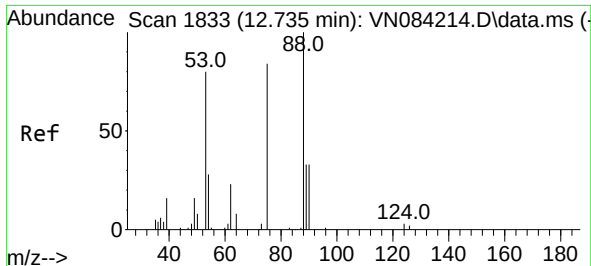
Tgt Ion:152 Resp: 88047
 Ion Ratio Lower Upper
 152 100
 115 63.2 31.3 93.9
 150 157.1 0.0 349.8



#76
 1,2,3-Trichloropropane
 Concen: 29.843 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.141 min
 Lab File: VN084236.D
 Acq: 01 Oct 2024 13:54

Tgt Ion: 75 Resp: 53643
 Ion Ratio Lower Upper
 75 100
 77 1.1 96.9 290.7#

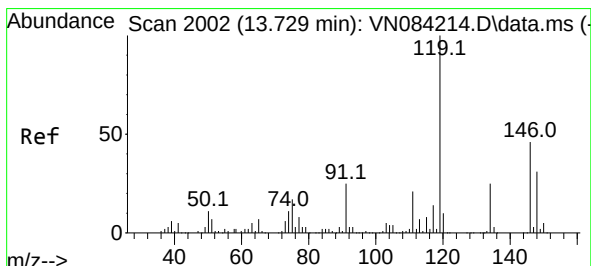
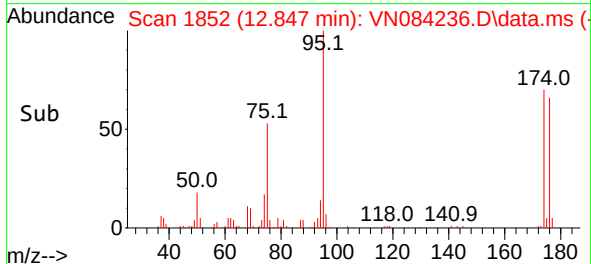
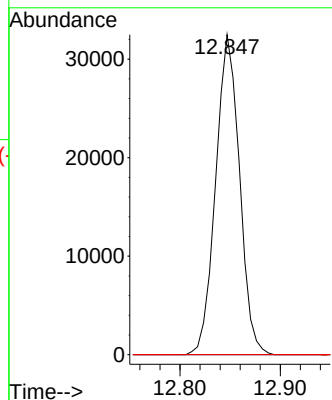
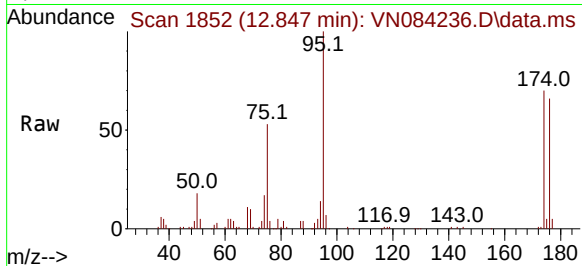




#81
trans-1,4-Dichloro-2-butene
Concen: 71.547 ug/l
RT: 12.847 min Scan# 1833
Delta R.T. 0.112 min
Lab File: VN084236.D
Acq: 01 Oct 2024 13:54

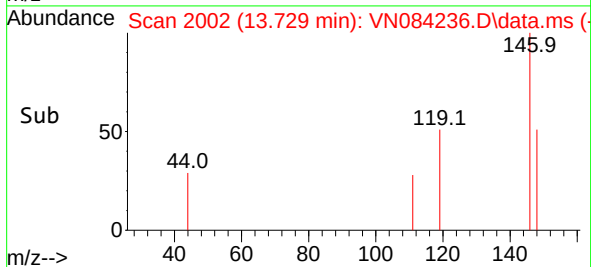
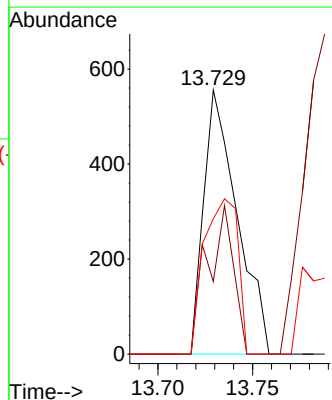
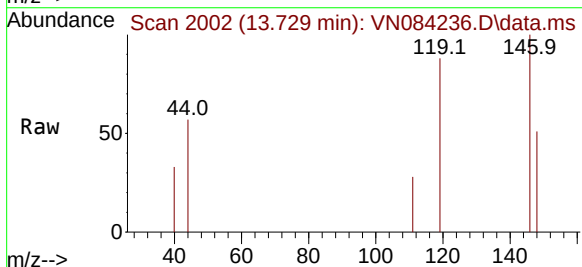
Instrument :
MSVOA_N
ClientSampleId :
RE132D5-20240918DL

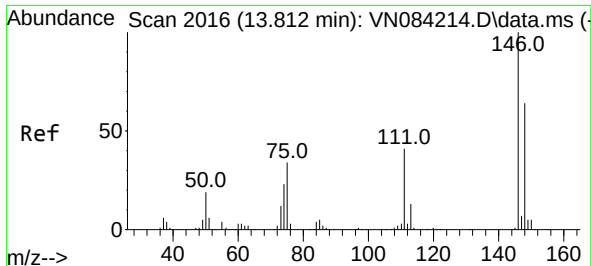
Tgt Ion: 75 Resp: 53643
Ion Ratio Lower Upper
75 100
53 0.0 78.0 117.0#
89 0.0 35.5 53.3#



#87
1,3-Dichlorobenzene
Concen: 0.225 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN084236.D
Acq: 01 Oct 2024 13:54

Tgt Ion: 146 Resp: 683
Ion Ratio Lower Upper
146 100
111 44.1 21.8 65.3
148 59.4 31.9 95.7





#88

1,4-Dichlorobenzene

Concen: 0.222 ug/l

RT: 13.729 min Scan# 2016

Delta R.T. -0.082 min

Lab File: VN084236.D

Acq: 01 Oct 2024 13:54

Instrument :

MSVOA_N

ClientSampleId :

RE132D5-20240918DL

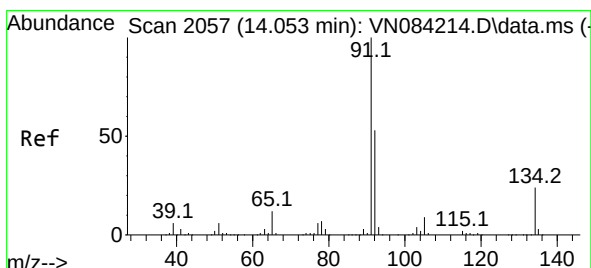
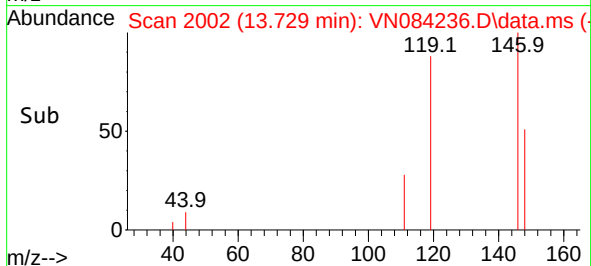
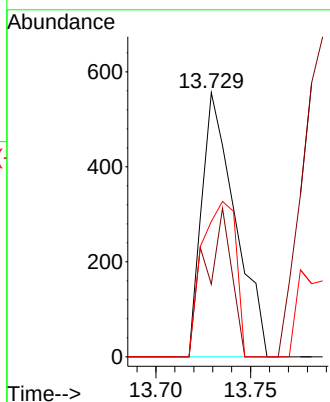
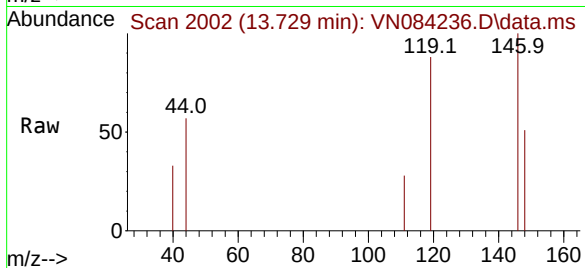
Tgt Ion:146 Resp: 683

Ion Ratio Lower Upper

146 100

111 44.1 21.2 63.6

148 59.4 31.9 95.9



#89

n-Butylbenzene

Concen: 0.257 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VN084236.D

Acq: 01 Oct 2024 13:54

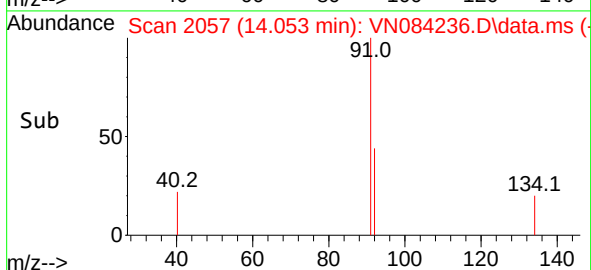
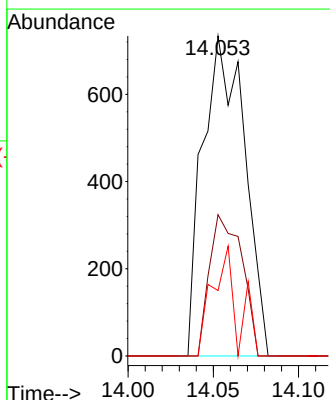
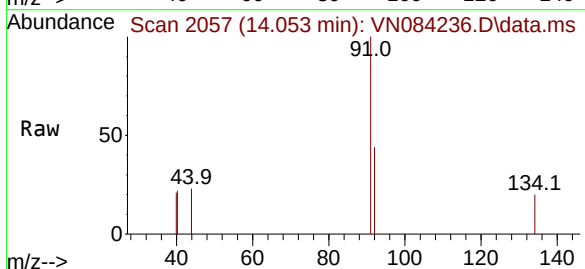
Tgt Ion: 91 Resp: 1254

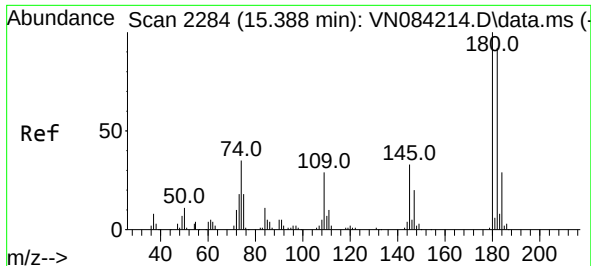
Ion Ratio Lower Upper

91 100

92 34.2 26.6 79.7

134 20.7 12.3 36.9





#93

1,2,4-Trichlorobenzene

Concen: 0.535 ug/l

RT: 15.382 min Scan# 21

Delta R.T. -0.006 min

Lab File: VN084236.D

Acq: 01 Oct 2024 13:54

Instrument :

MSVOA_N

ClientSampleId :

RE132D5-20240918DL

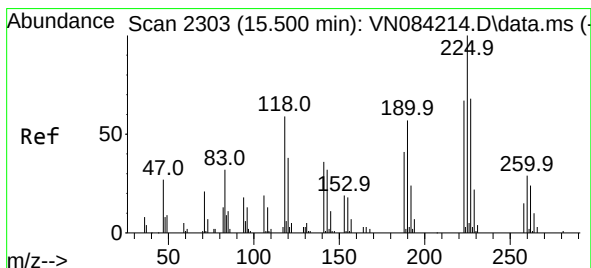
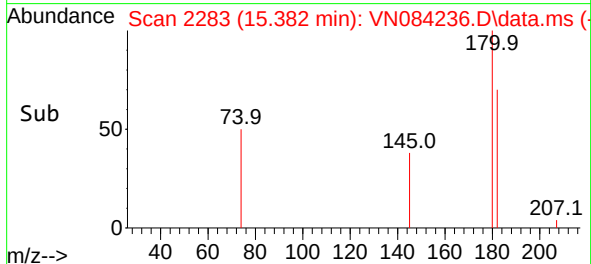
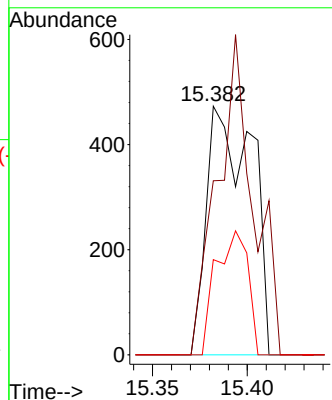
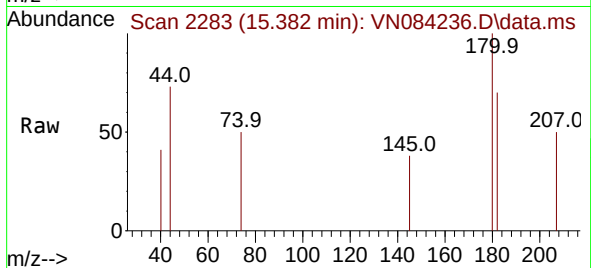
Tgt Ion:180 Resp: 785

Ion Ratio Lower Upper

180 100

182 102.4 47.0 141.0

145 35.3 16.4 49.4



#94

Hexachlorobutadiene

Concen: 0.598 ug/l

RT: 15.488 min Scan# 2301

Delta R.T. -0.012 min

Lab File: VN084236.D

Acq: 01 Oct 2024 13:54

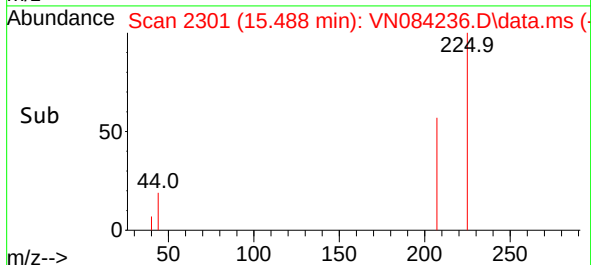
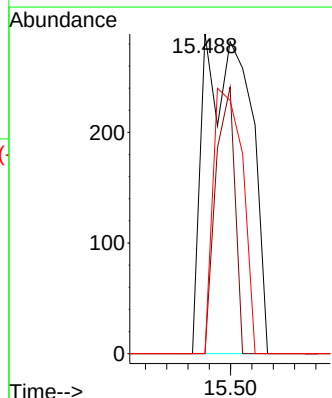
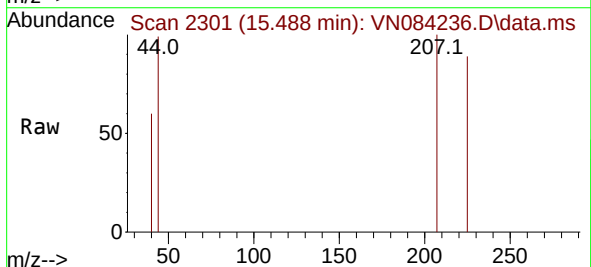
Tgt Ion:225 Resp: 438

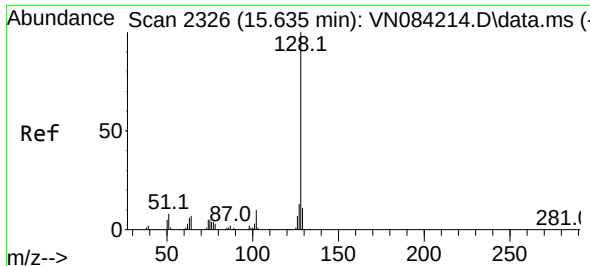
Ion Ratio Lower Upper

225 100

223 34.5 32.4 97.2

227 52.3 32.4 97.0

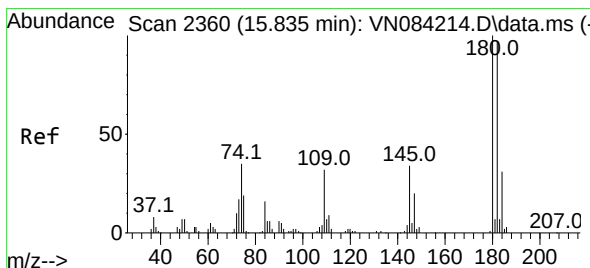
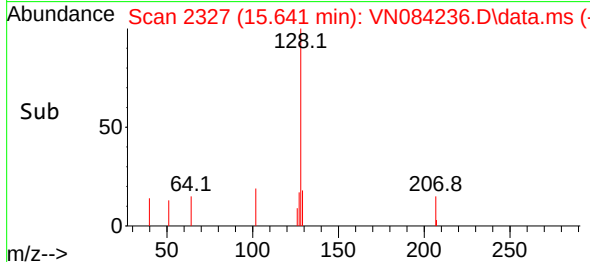
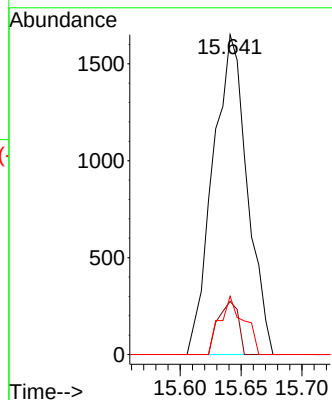
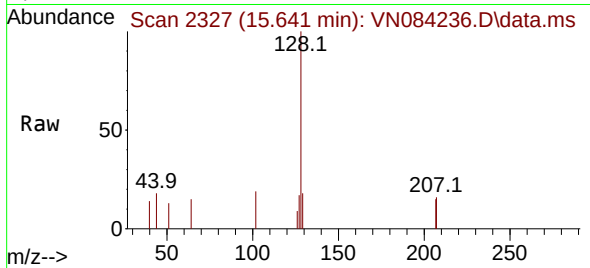




#95
Naphthalene
Concen: 0.665 ug/l
RT: 15.641 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN084236.D
Acq: 01 Oct 2024 13:54

Instrument :
MSVOA_N
ClientSampleId :
RE132D5-20240918DL

Tgt Ion:128 Resp: 3237
Ion Ratio Lower Upper
128 100
127 9.8 10.5 15.7#
129 12.9 8.7 13.1



#96
1,2,3-Trichlorobenzene
Concen: 0.659 ug/l
RT: 15.847 min Scan# 2362
Delta R.T. 0.012 min
Lab File: VN084236.D
Acq: 01 Oct 2024 13:54

Tgt Ion:180 Resp: 968
Ion Ratio Lower Upper
180 100
182 98.2 48.2 144.6
145 21.3 17.3 51.9

