

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071124\
 Data File : VN082865.D
 Acq On : 11 Jul 2024 10:32
 Operator : JC\MD
 Sample : VN0711MBL01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0711MBL01

Quant Time: Jul 12 01:02:16 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N070824W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 08 13:46:04 2024
 Response via : Initial Calibration

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

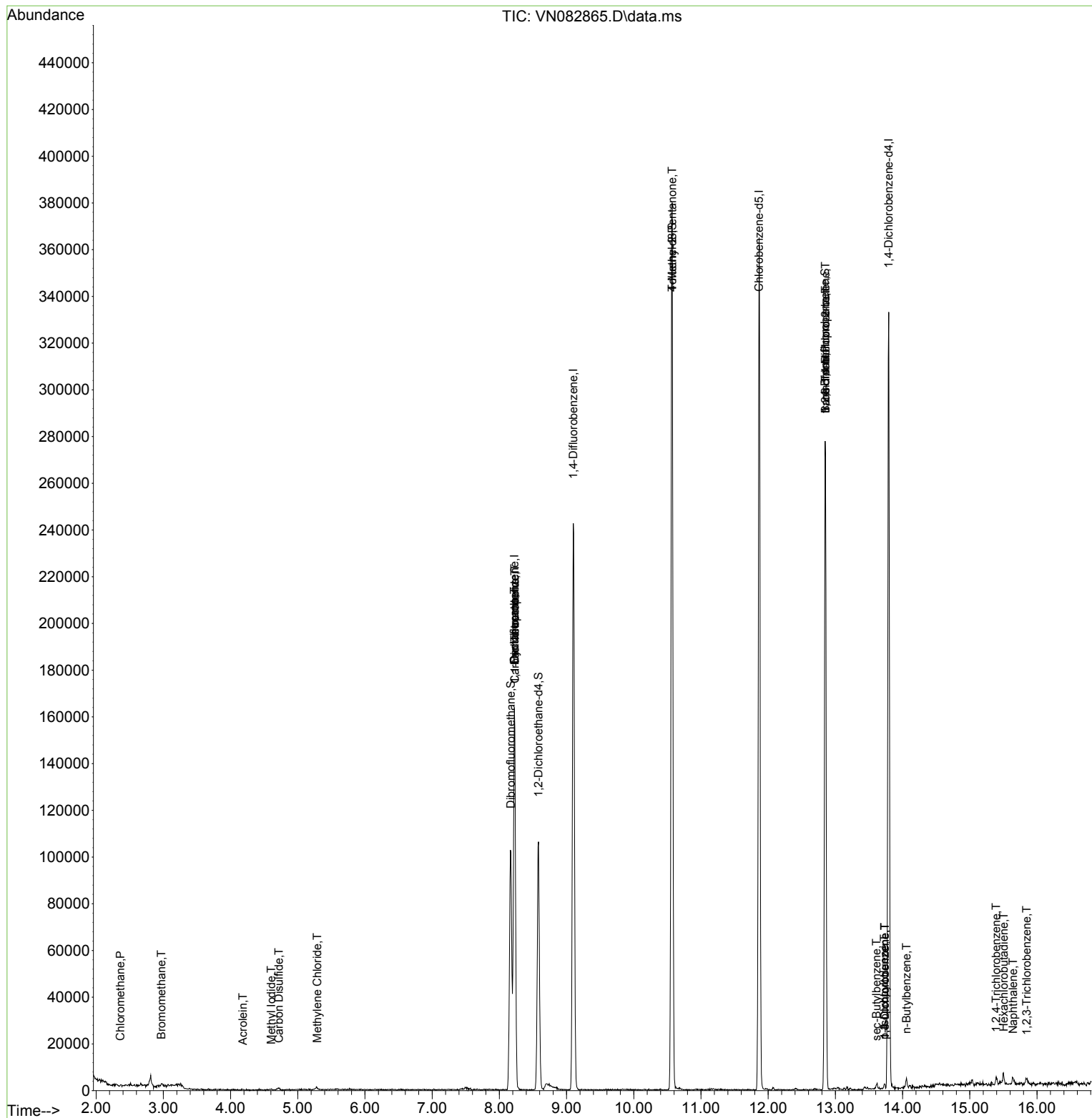
Internal Standards						
1) Pentafluorobenzene	8.224	168	115876	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	207515	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	205599	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	89010	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	87519	53.880	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 107.760%			
35) Dibromofluoromethane	8.171	113	73000	54.822	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 109.640%			
50) Toluene-d8	10.571	98	262570	53.388	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.780%			
62) 4-Bromofluorobenzene	12.847	95	95958	54.317	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery = 108.640%			
Target Compounds					Qvalue	
3) Chloromethane	2.359	50	325	0.228	ug/l #	43
5) Bromomethane	2.971	94	645	0.599	ug/l #	80
10) Methyl Iodide	4.606	142	699	0.561	ug/l #	38
13) Acrolein	4.183	56	56	0.284	ug/l #	14
17) Carbon Disulfide	4.718	76	1803	0.510	ug/l #	75
20) Methylene Chloride	5.289	84	380	0.275	ug/l #	65
31) Cyclohexane	8.224	56	2800	1.318	ug/l #	1
36) 1,1-Dichloropropene	8.230	75	9848	5.364	ug/l #	49
38) Carbon Tetrachloride	8.230	117	12789	5.786	ug/l #	13
43) Isopropyl Acetate	8.712	43	2710	Below Cal	#	60
51) 4-Methyl-2-Pentanone	10.571	43	1273	0.687	ug/l #	1
71) Bromoform	12.853	173	616	0.500	ug/l #	1
76) 1,2,3-Trichloropropane	12.853	75	51748	33.721	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	51748	66.320	ug/l #	6
85) sec-Butylbenzene	13.612	105	1608	0.257	ug/l	99
86) p-Isopropyltoluene	13.729	119	1324	0.253	ug/l #	80
87) 1,3-Dichlorobenzene	13.735	146	646	0.214	ug/l #	66
88) 1,4-Dichlorobenzene	13.735	146	646	0.207	ug/l	66
89) n-Butylbenzene	14.059	91	2361	0.527	ug/l	94
93) 1,2,4-Trichlorobenzene	15.394	180	865	0.549	ug/l	78
94) Hexachlorobutadiene	15.506	225	997	1.427	ug/l	91
95) Naphthalene	15.647	128	3370	0.624	ug/l #	94
96) 1,2,3-Trichlorobenzene	15.847	180	1265	0.780	ug/l	92

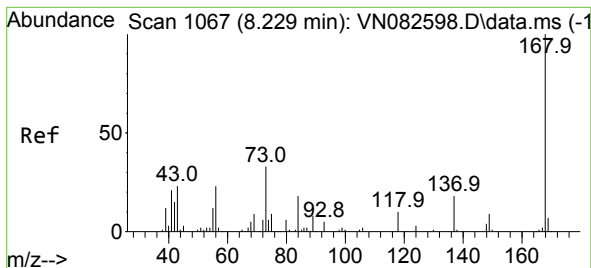
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Jul 08 13:46:04 2024
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.224 min Scan# 1

Delta R.T. -0.005 min

Lab File: VN082865.D

Acq: 11 Jul 2024 10:32

Instrument :

MSVOA_N

ClientSampleId :

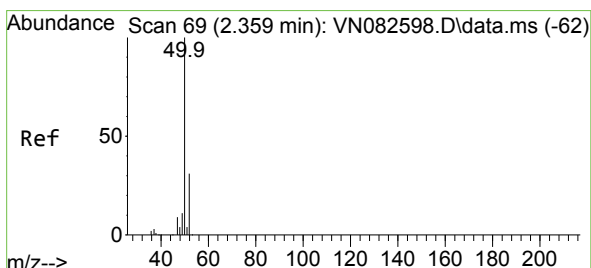
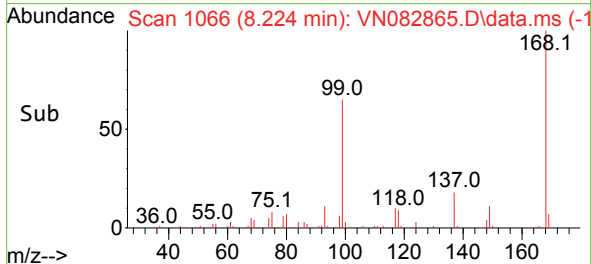
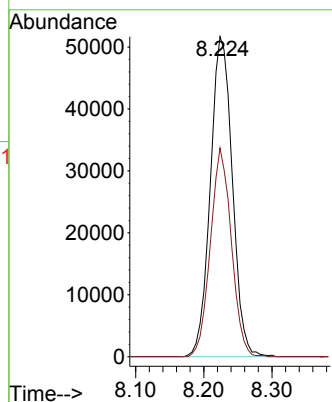
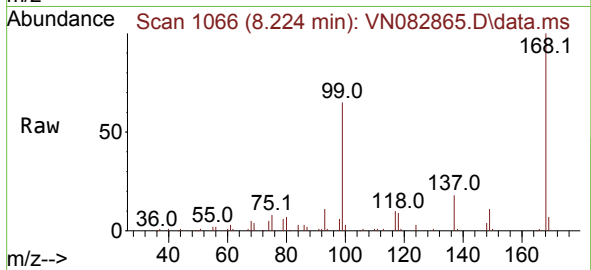
VN0711MBL01

Tgt Ion:168 Resp: 115876

Ion Ratio Lower Upper

168 100

99 65.2 48.2 72.4



#3

Chloromethane

Concen: 0.228 ug/l

RT: 2.359 min Scan# 69

Delta R.T. 0.000 min

Lab File: VN082865.D

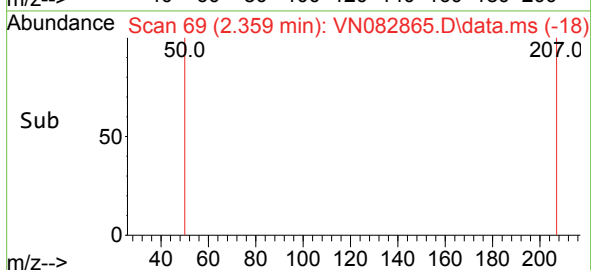
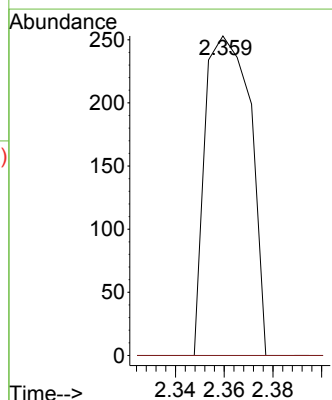
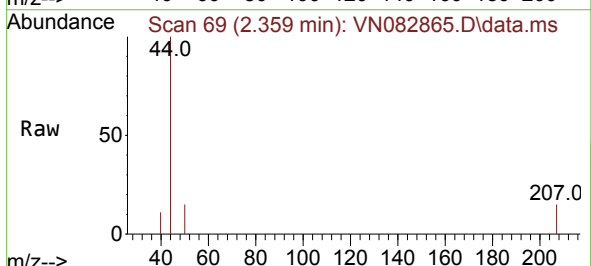
Acq: 11 Jul 2024 10:32

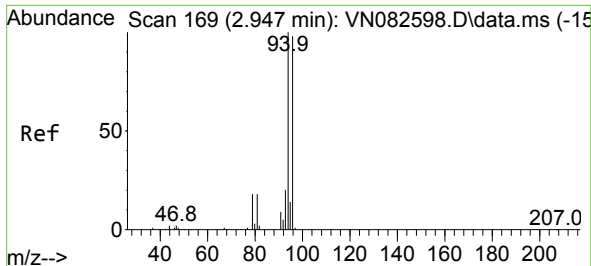
Tgt Ion: 50 Resp: 325

Ion Ratio Lower Upper

50 100

52 0.0 25.0 37.4#

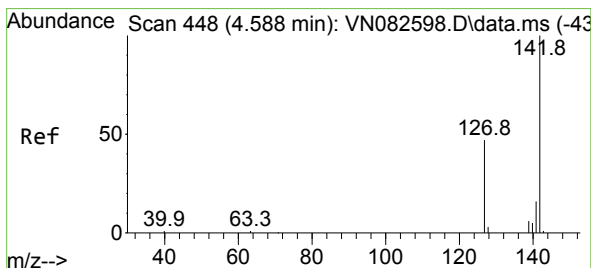
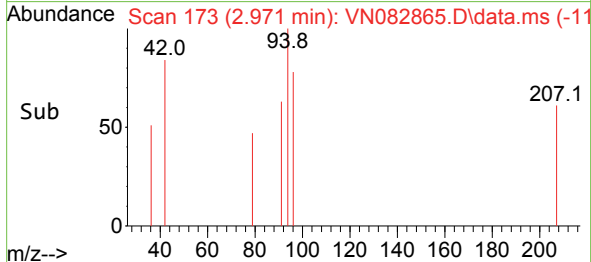
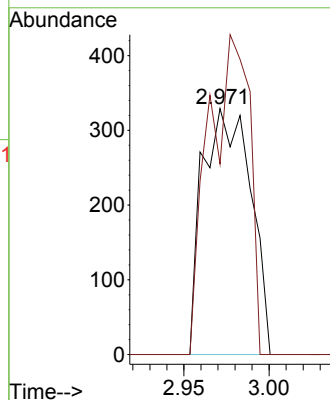
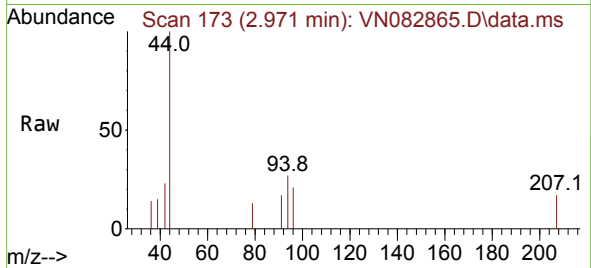




#5
Bromomethane
Concen: 0.599 ug/l
RT: 2.971 min Scan# 1
Delta R.T. 0.024 min
Lab File: VN082865.D
Acq: 11 Jul 2024 10:32

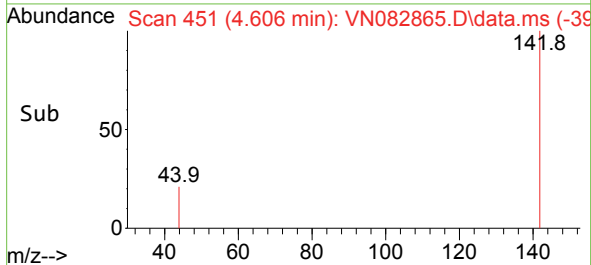
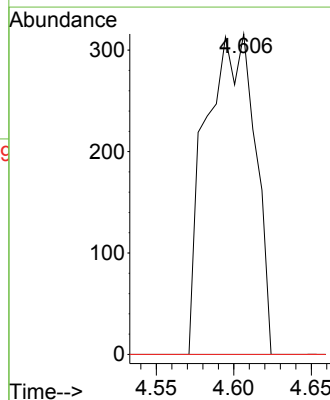
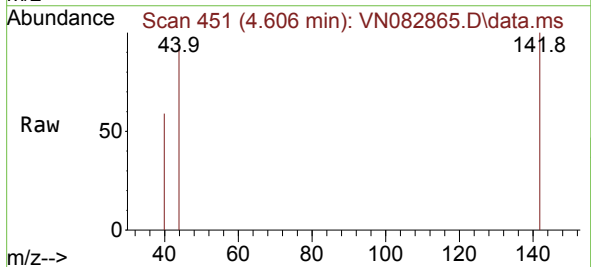
Instrument :
MSVOA_N
ClientSampleId :
VN0711MBL01

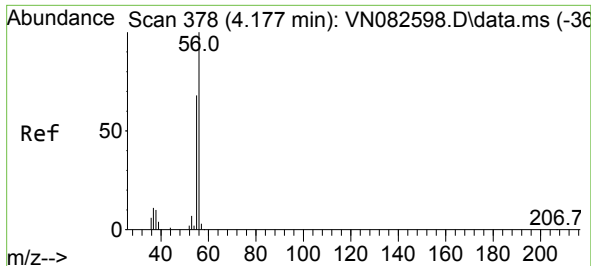
Tgt Ion: 94 Resp: 645
Ion Ratio Lower Upper
94 100
96 77.5 78.0 117.0#



#10
Methyl Iodide
Concen: 0.561 ug/l
RT: 4.606 min Scan# 451
Delta R.T. 0.018 min
Lab File: VN082865.D
Acq: 11 Jul 2024 10:32

Tgt Ion:142 Resp: 699
Ion Ratio Lower Upper
142 100
127 0.0 37.5 56.3#
141 0.0 13.1 19.7#





#13

Acrolein

Concen: 0.284 ug/l

RT: 4.183 min Scan# 31

Delta R.T. 0.006 min

Lab File: VN082865.D

Acq: 11 Jul 2024 10:32

Instrument :

MSVOA_N

ClientSampleId :

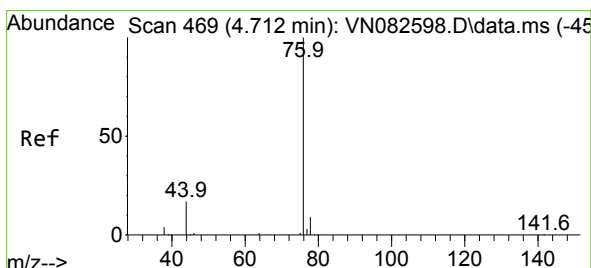
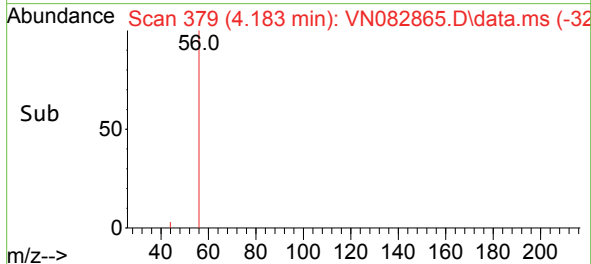
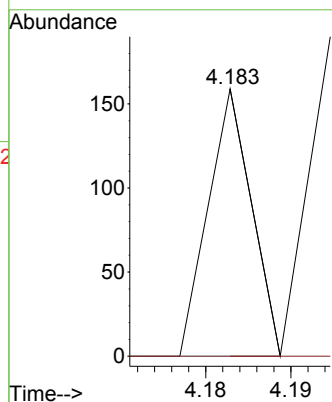
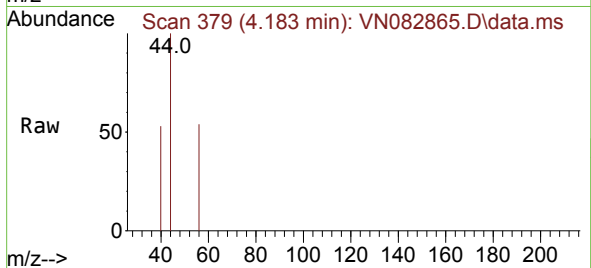
VN0711MBL01

Tgt Ion: 56 Resp: 56

Ion Ratio Lower Upper

56 100

55 0.0 56.4 84.6#



#17

Carbon Disulfide

Concen: 0.510 ug/l

RT: 4.718 min Scan# 470

Delta R.T. 0.006 min

Lab File: VN082865.D

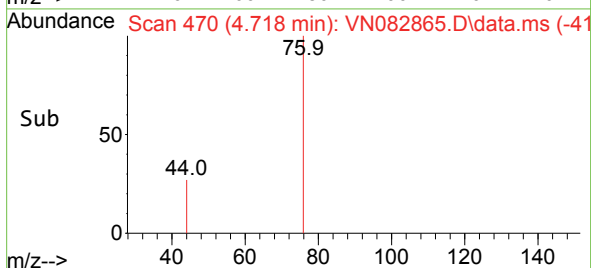
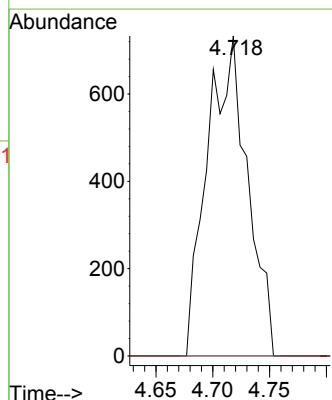
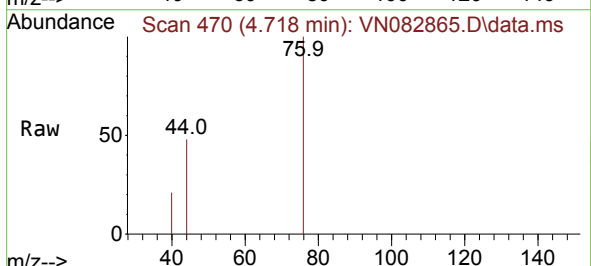
Acq: 11 Jul 2024 10:32

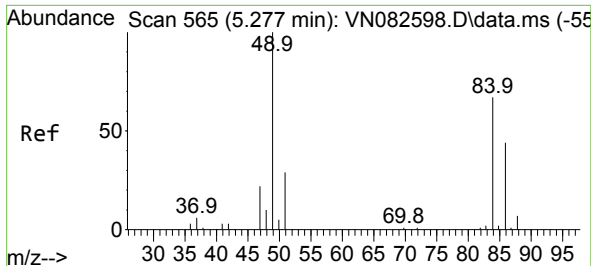
Tgt Ion: 76 Resp: 1803

Ion Ratio Lower Upper

76 100

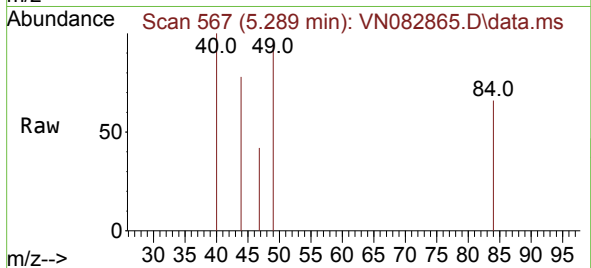
78 0.0 7.2 10.8#



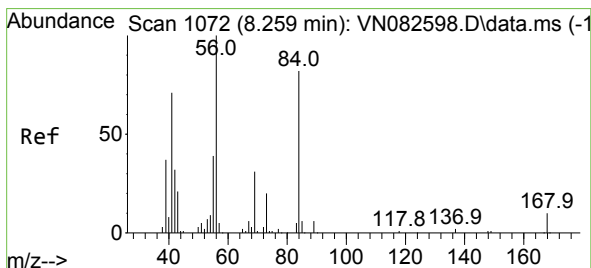
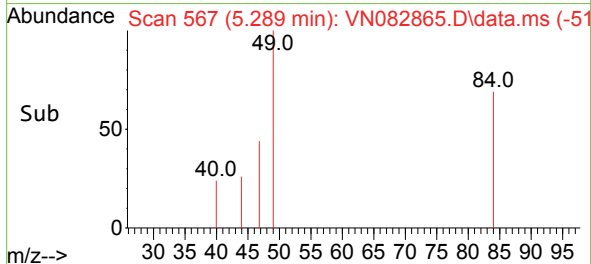
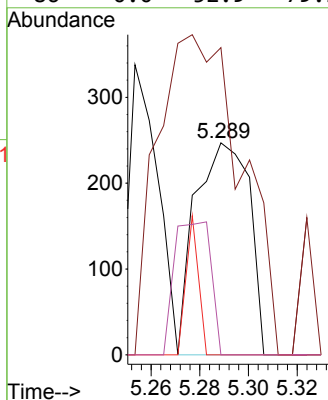


#20
Methylene Chloride
Concen: 0.275 ug/l
RT: 5.289 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN082865.D
Acq: 11 Jul 2024 10:32

Instrument :
MSVOA_N
ClientSampleId :
VN0711MBL01

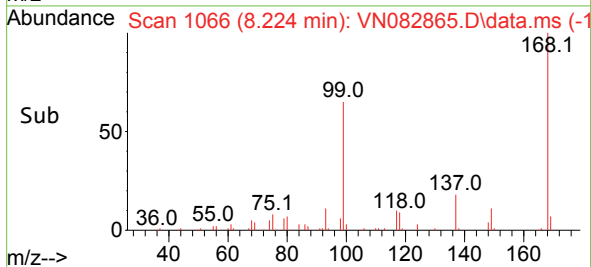
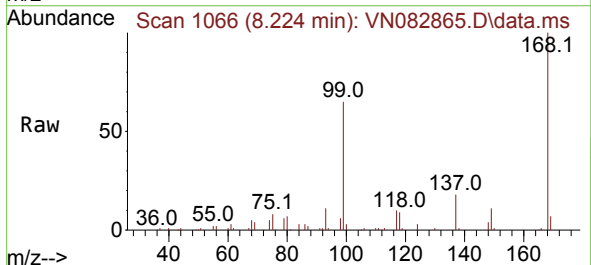
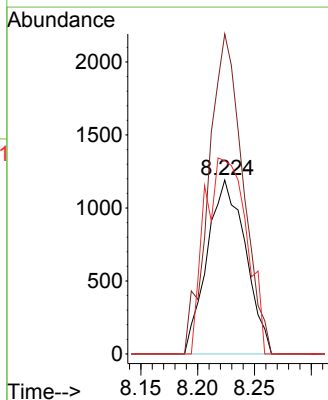


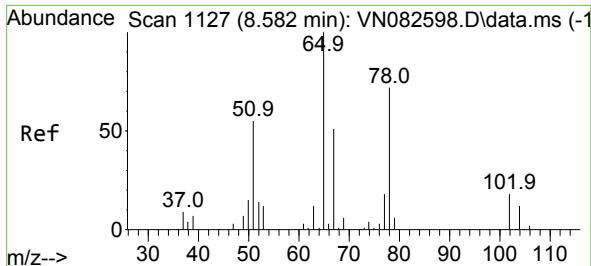
Tgt Ion:	84	Resp:	380
Ion	Ratio	Lower	Upper
84	100		
49	144.9	119.6	179.4
51	0.0	34.8	52.2#
86	0.0	52.9	79.3#



#31
Cyclohexane
Concen: 1.318 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.035 min
Lab File: VN082865.D
Acq: 11 Jul 2024 10:32

Tgt Ion:	56	Resp:	2800
Ion	Ratio	Lower	Upper
56	100		
69	184.0	24.5	36.7#
84	111.1	66.0	99.0#





#33

1,2-Dichloroethane-d4

Concen: 53.880 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. 0.001 min

Lab File: VN082865.D

Acq: 11 Jul 2024 10:32

Instrument :

MSVOA_N

ClientSampleId :

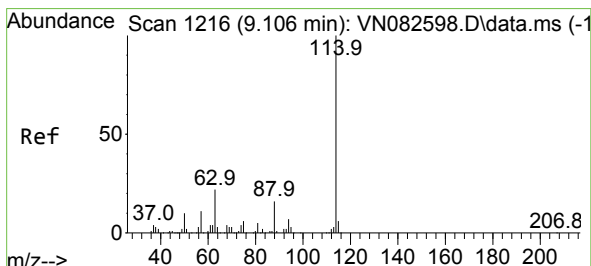
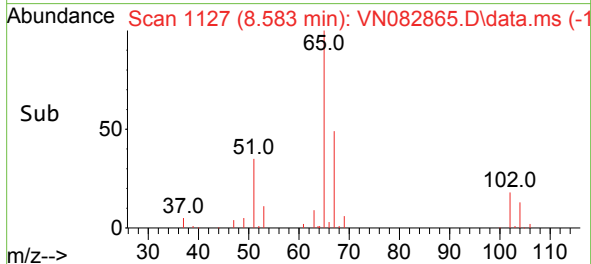
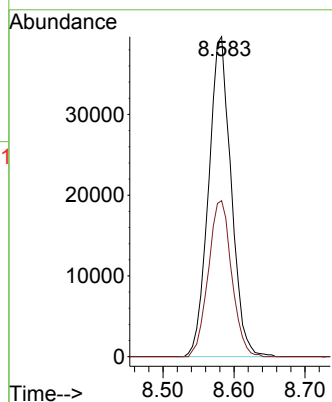
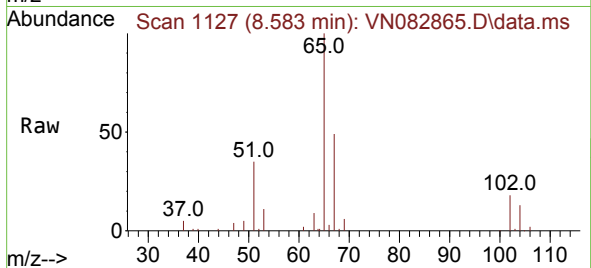
VN0711MBL01

Tgt Ion: 65 Resp: 87519

Ion Ratio Lower Upper

65 100

67 50.4 0.0 104.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.006 min

Lab File: VN082865.D

Acq: 11 Jul 2024 10:32

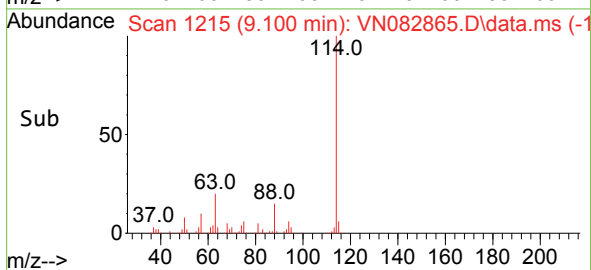
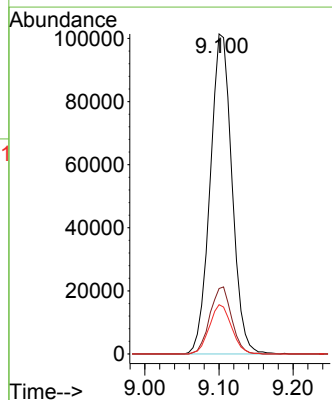
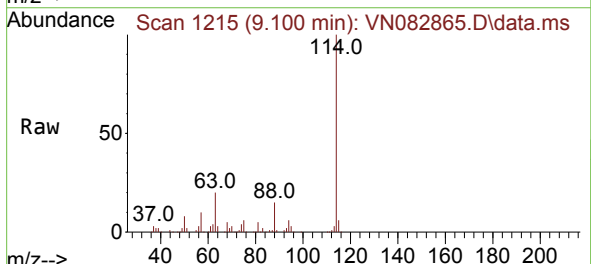
Tgt Ion: 114 Resp: 207515

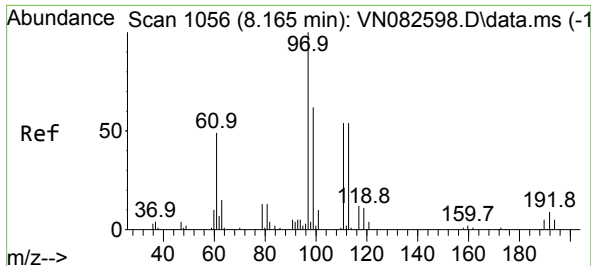
Ion Ratio Lower Upper

114 100

63 20.4 0.0 44.6

88 15.4 0.0 31.4





#35

Dibromofluoromethane

Concen: 54.822 ug/l

RT: 8.171 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN082865.D

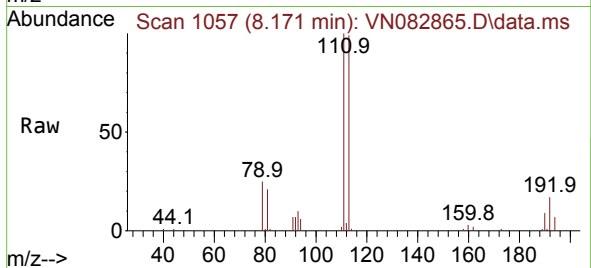
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Instrument :

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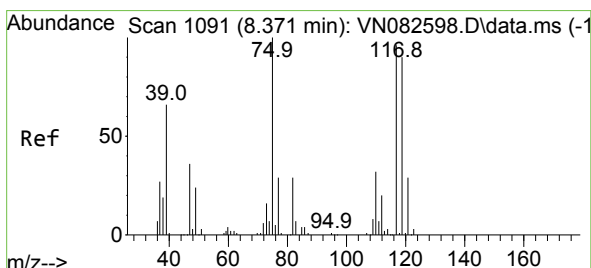
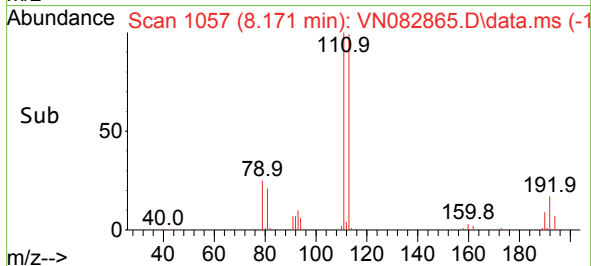
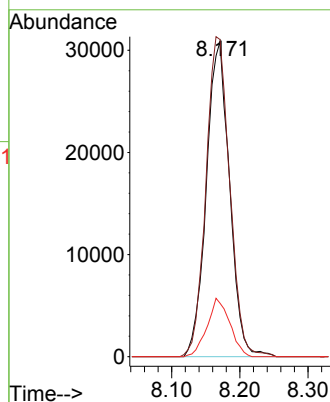
Tgt Ion:113 Resp: 73000

Ion Ratio Lower Upper

113 100

111 104.0 82.4 123.6

192 18.1 14.9 22.3



#36

1,1-Dichloropropene

Concen: 5.364 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.141 min

Lab File: VN082865.D

Acq: 11 Jul 2024 10:32

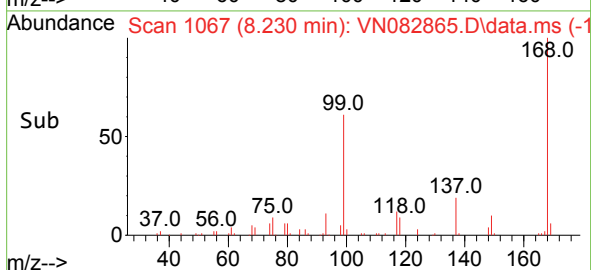
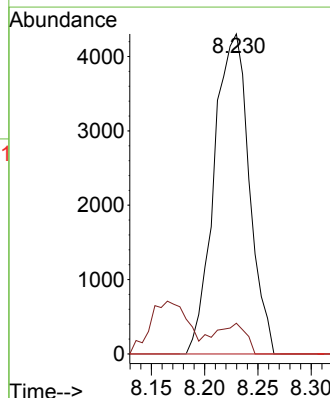
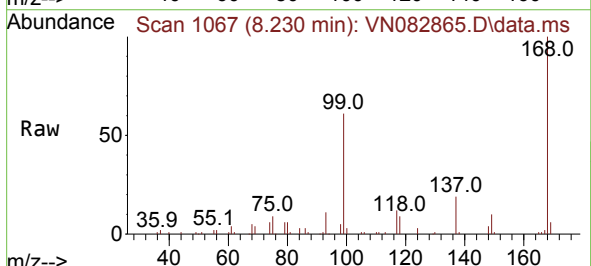
Tgt Ion: 75 Resp: 9848

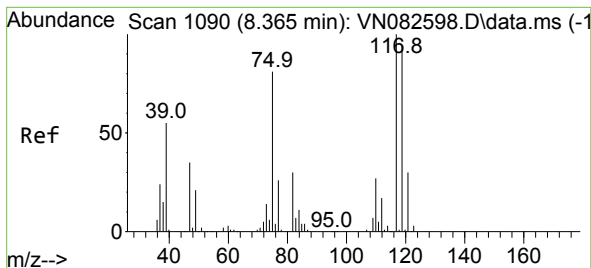
Ion Ratio Lower Upper

75 100

110 7.1 16.3 48.9#

77 0.0 24.6 37.0#





#38

Carbon Tetrachloride

Concen: 5.786 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.135 min

Lab File: VN082865.D

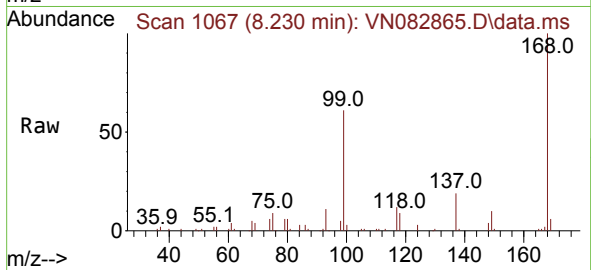
Acq: 11 Jul 2024 10:32

Instrument :

MSVOA_N

ClientSampleId :

VN0711MBL01



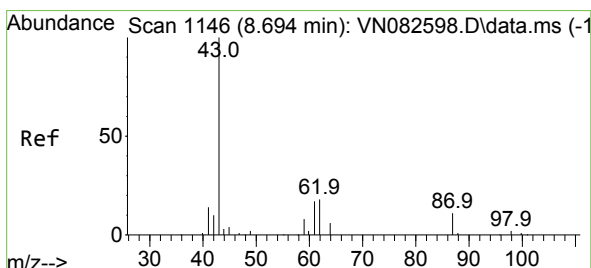
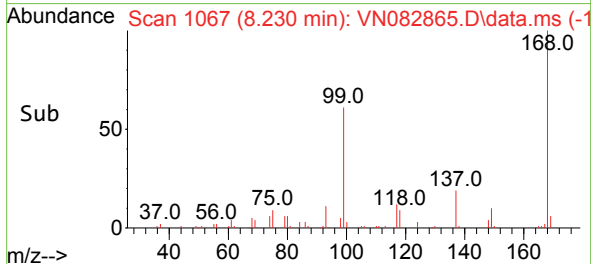
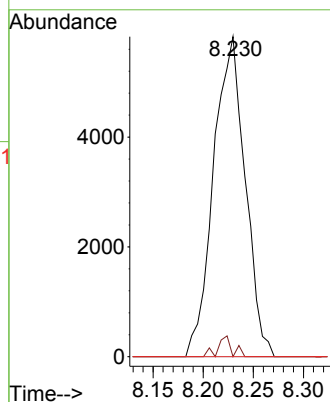
Tgt Ion:117 Resp: 12789

Ion Ratio Lower Upper

117 100

119 0.0 74.9 112.3#

121 0.0 24.3 36.5#



#43

Isopropyl Acetate

Concen: Below Cal

RT: 8.712 min Scan# 1149

Delta R.T. 0.018 min

Lab File: VN082865.D

Acq: 11 Jul 2024 10:32

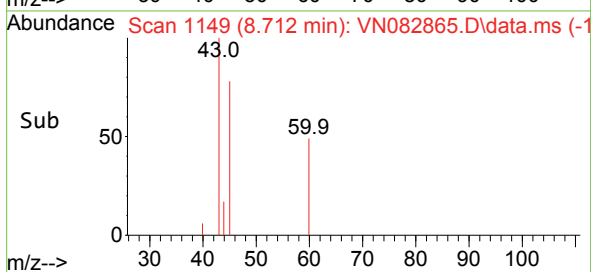
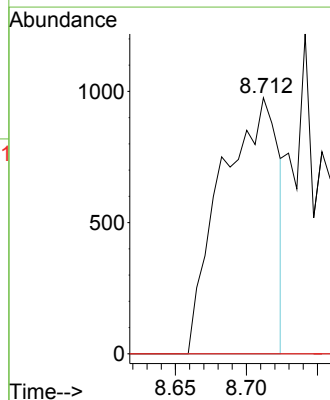
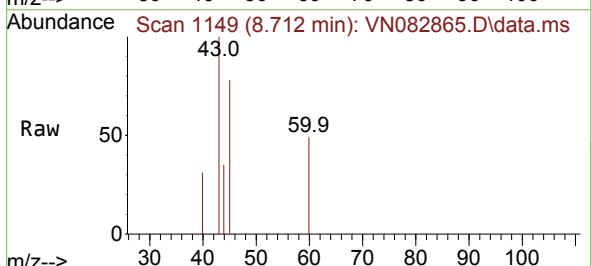
Tgt Ion: 43 Resp: 2710

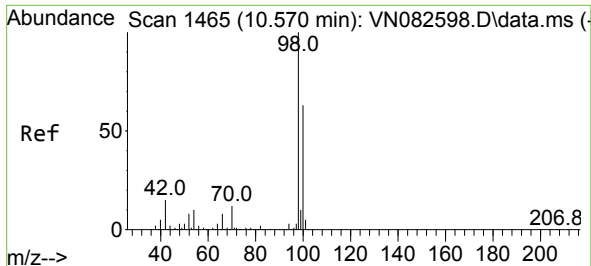
Ion Ratio Lower Upper

43 100

61 0.0 17.8 26.6#

87 0.0 8.2 12.2#

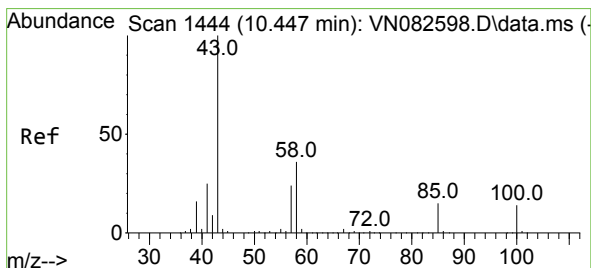
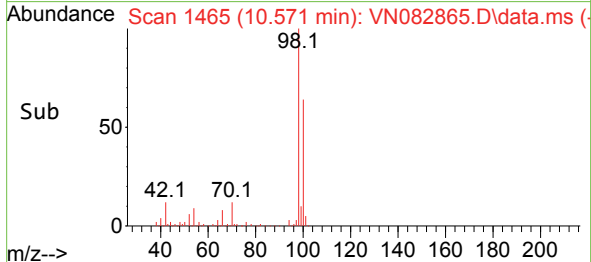
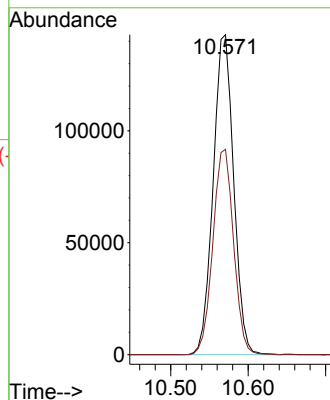
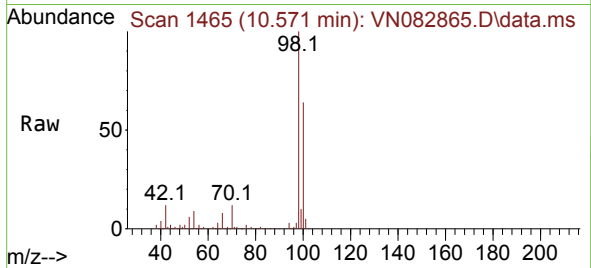




#50
Toluene-d8
Concen: 53.388 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.001 min
Lab File: VN082865.D
Acq: 11 Jul 2024 10:32

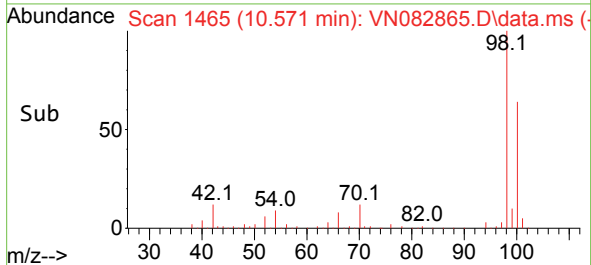
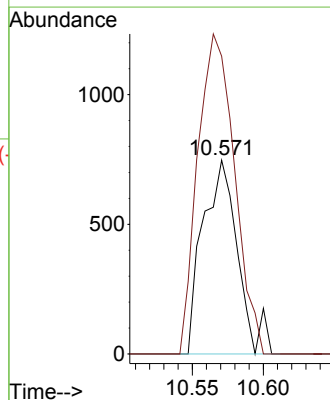
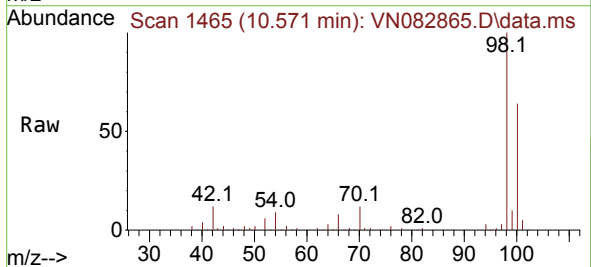
Instrument :
MSVOA_N
ClientSampleId :
VN0711MBL01

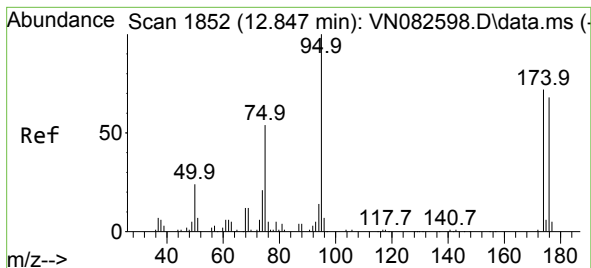
Tgt Ion: 98 Resp: 262570
Ion Ratio Lower Upper
98 100
100 64.8 51.5 77.3



#51
4-Methyl-2-Pentanone
Concen: 0.687 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.124 min
Lab File: VN082865.D
Acq: 11 Jul 2024 10:32

Tgt Ion: 43 Resp: 1273
Ion Ratio Lower Upper
43 100
58 174.6 28.2 42.4#

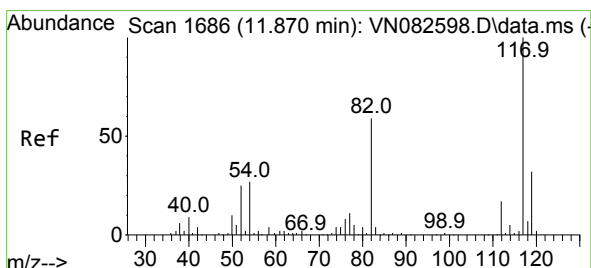
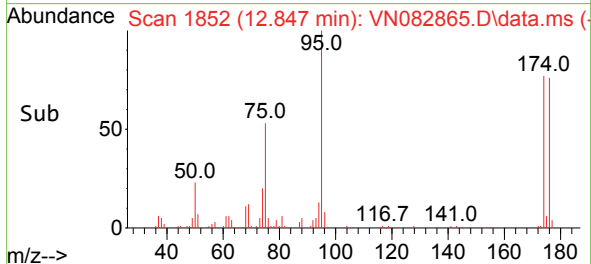
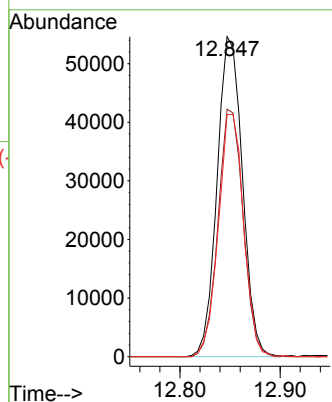
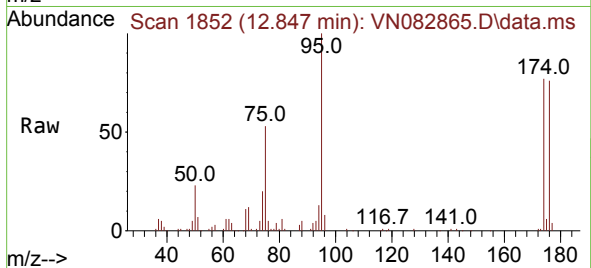




#62
4-Bromofluorobenzene
Concen: 54.317 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN082865.D
Acq: 11 Jul 2024 10:32

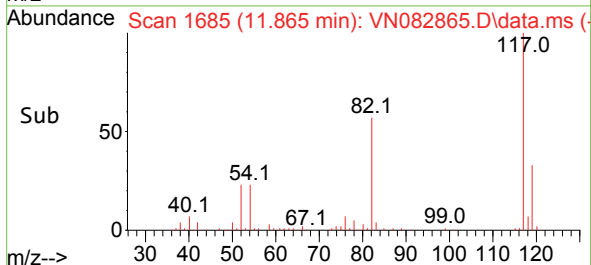
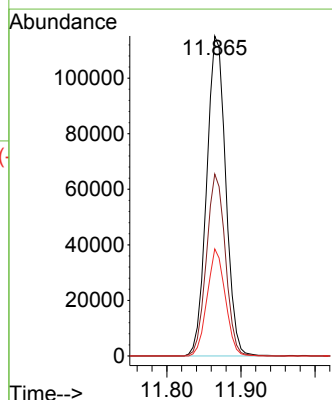
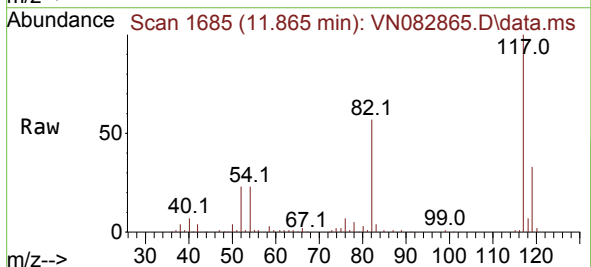
Instrument :
MSVOA_N
ClientSampleId :
VN0711MBL01

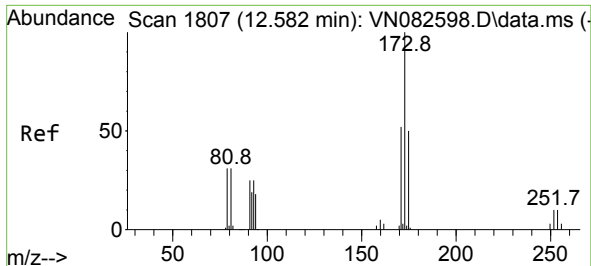
Tgt Ion: 95 Resp: 95958
Ion Ratio Lower Upper
95 100
174 76.7 0.0 159.2
176 75.2 0.0 147.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.005 min
Lab File: VN082865.D
Acq: 11 Jul 2024 10:32

Tgt Ion: 117 Resp: 205599
Ion Ratio Lower Upper
117 100
82 56.8 47.5 71.3
119 33.4 25.6 38.4

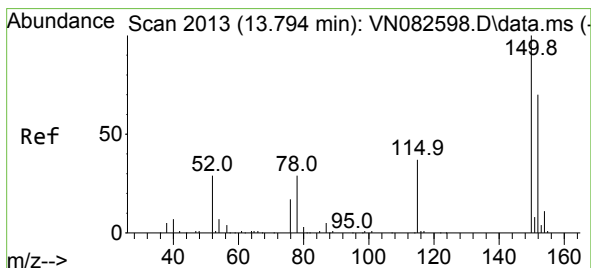
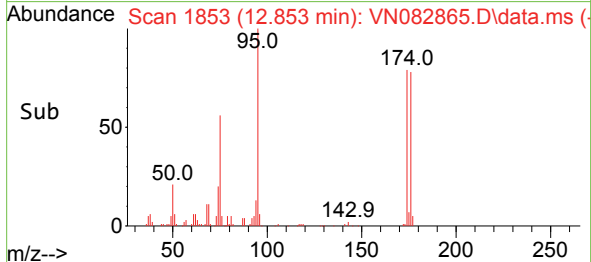
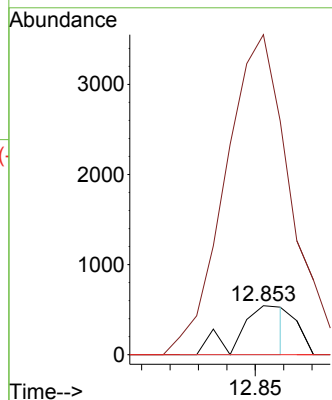
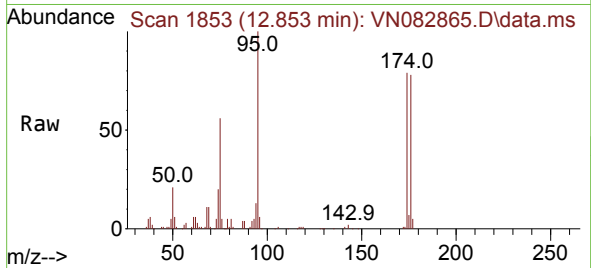




#71
Bromoform
Concen: 0.500 ug/l
RT: 12.853 min Scan# 1807
Delta R.T. 0.271 min
Lab File: VN082865.D
Acq: 11 Jul 2024 10:32

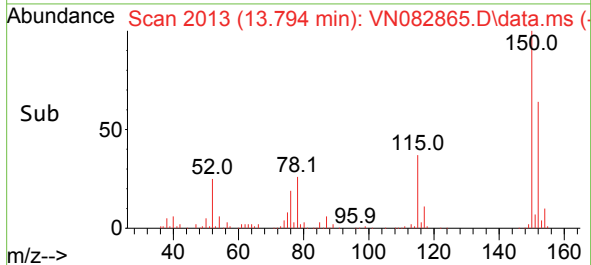
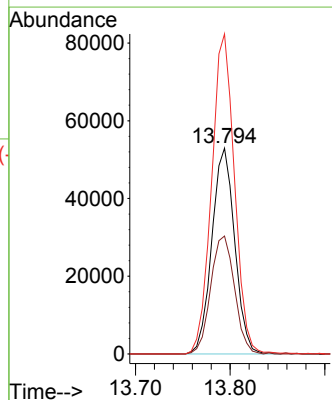
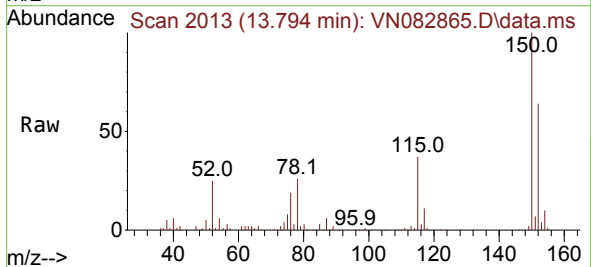
Instrument :
MSVOA_N
ClientSampleId :
VN0711MBL01

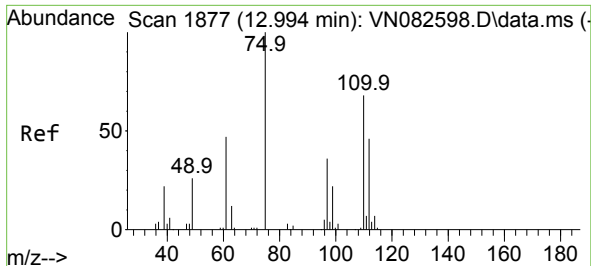
Tgt Ion:173 Resp: 616
Ion Ratio Lower Upper
173 100
175 776.1 24.0 72.0#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.000 min
Lab File: VN082865.D
Acq: 11 Jul 2024 10:32

Tgt Ion:152 Resp: 89010
Ion Ratio Lower Upper
152 100
115 59.6 30.6 91.6
150 155.4 0.0 348.6

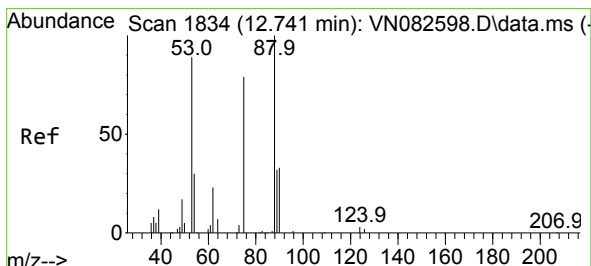
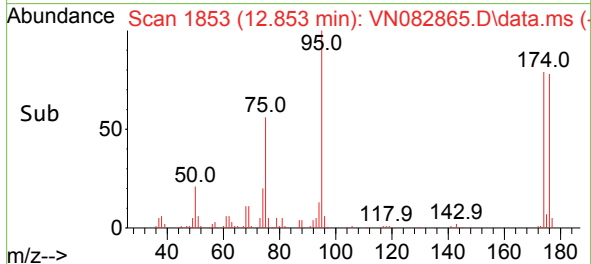
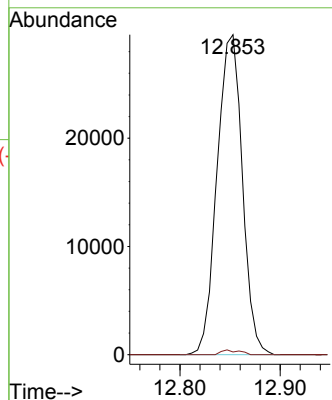
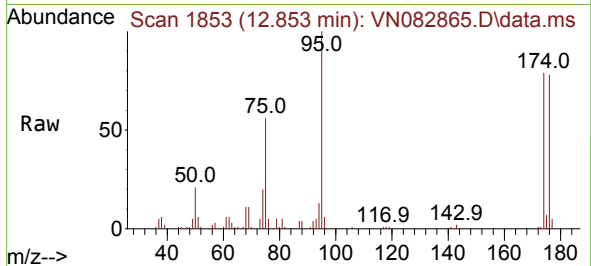




#76
 1,2,3-Trichloropropane
 Concen: 33.721 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. -0.141 min
 Lab File: VN082865.D
 Acq: 11 Jul 2024 10:32

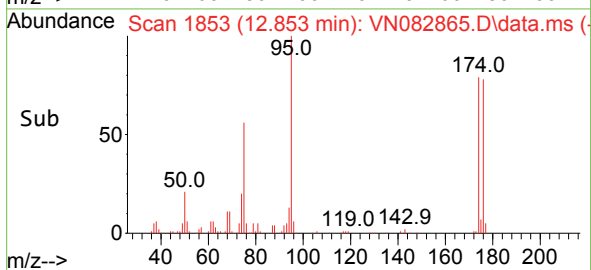
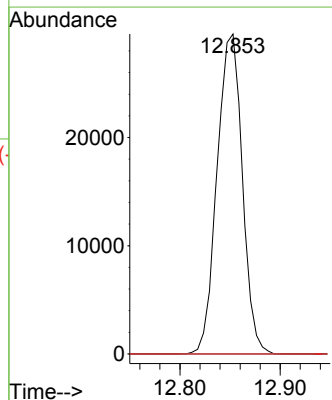
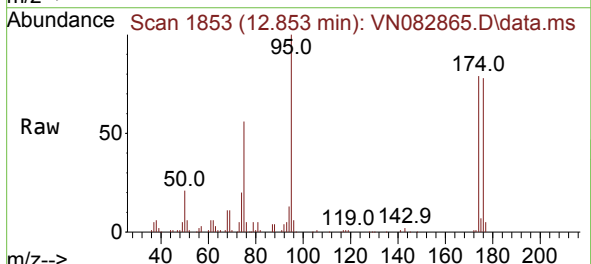
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0711MBL01

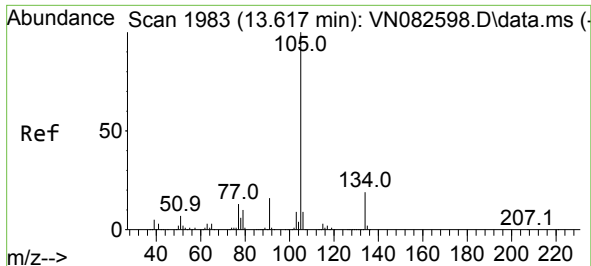
Tgt Ion: 75 Resp: 51748
 Ion Ratio Lower Upper
 75 100
 77 1.1 110.9 332.6#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 66.320 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. 0.112 min
 Lab File: VN082865.D
 Acq: 11 Jul 2024 10:32

Tgt Ion: 75 Resp: 51748
 Ion Ratio Lower Upper
 75 100
 53 0.0 88.4 132.6#
 89 0.0 36.3 54.5#

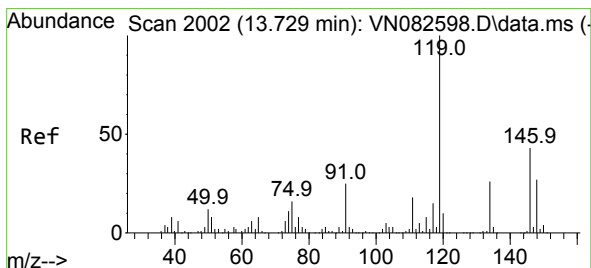
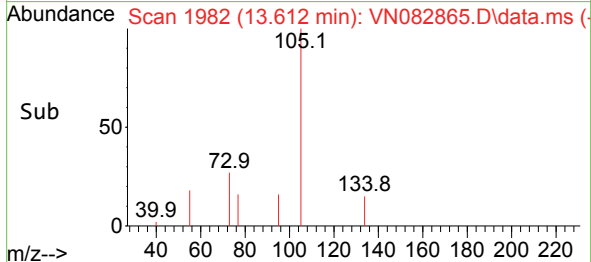
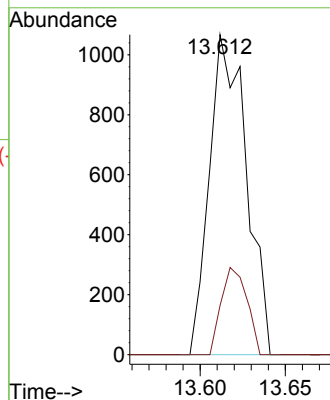
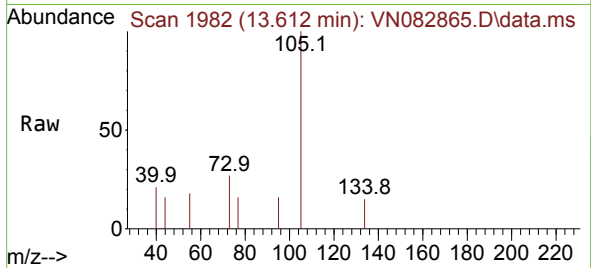




#85
 sec-Butylbenzene
 Concen: 0.257 ug/l
 RT: 13.612 min Scan# 1983
 Delta R.T. -0.005 min
 Lab File: VN082865.D
 Acq: 11 Jul 2024 10:32

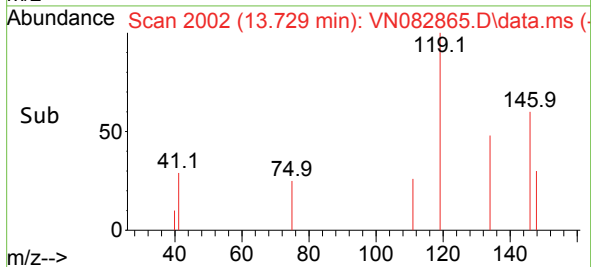
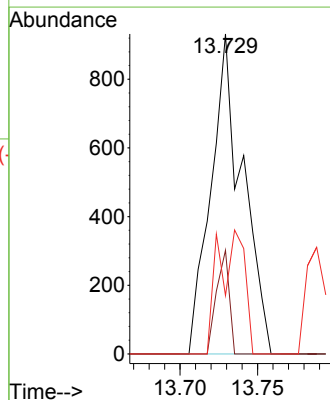
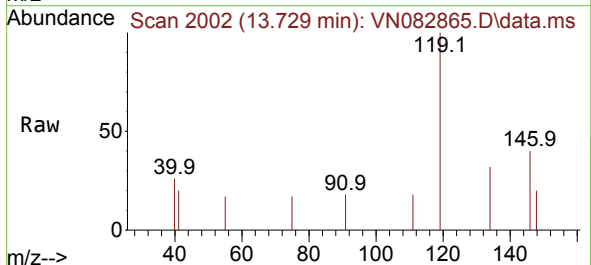
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0711MBL01

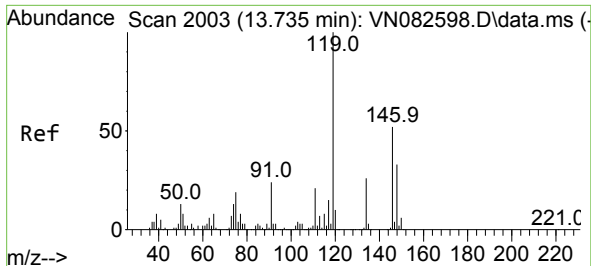
Tgt Ion:105 Resp: 1608
 Ion Ratio Lower Upper
 105 100
 134 19.0 9.8 29.3



#86
 p-Isopropyltoluene
 Concen: 0.253 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. 0.000 min
 Lab File: VN082865.D
 Acq: 11 Jul 2024 10:32

Tgt Ion:119 Resp: 1324
 Ion Ratio Lower Upper
 119 100
 134 12.9 13.0 39.0#
 91 31.6 12.3 36.9

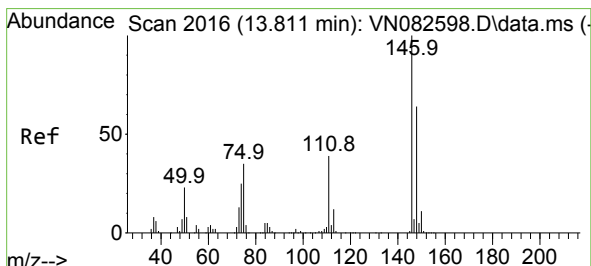
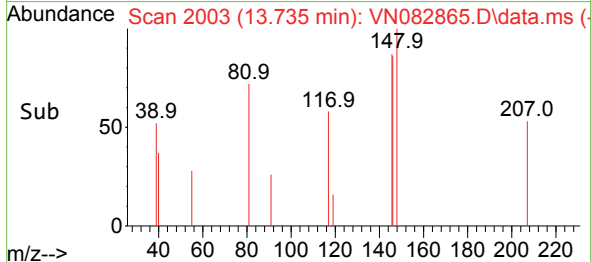
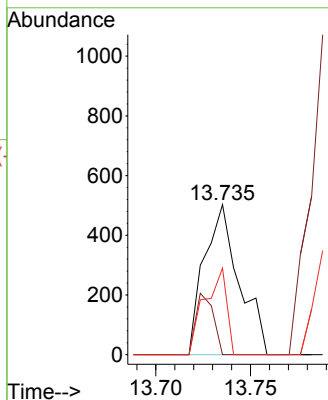
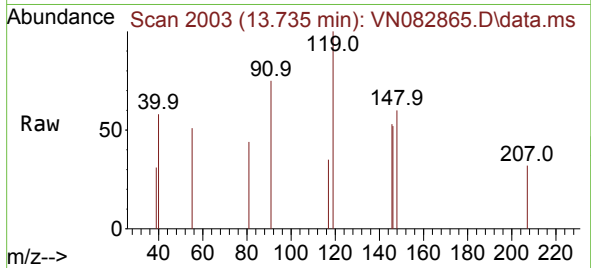




#87
 1,3-Dichlorobenzene
 Concen: 0.214 ug/l
 RT: 13.735 min Scan# 2003
 Delta R.T. 0.000 min
 Lab File: VN082865.D
 Acq: 11 Jul 2024 10:32

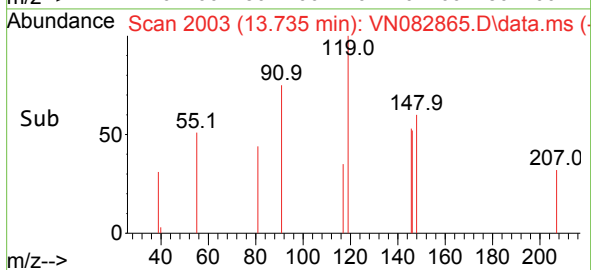
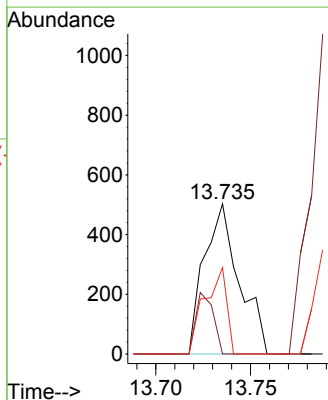
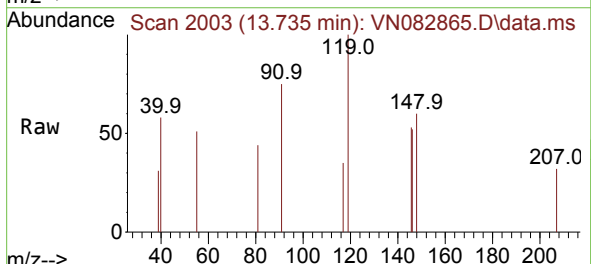
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0711MBL01

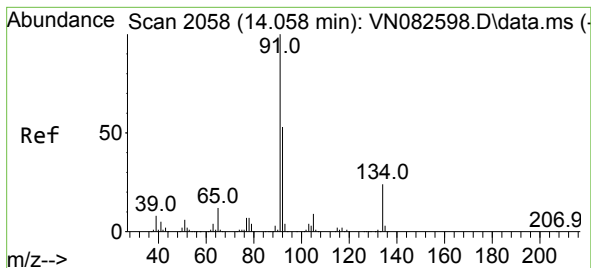
Tgt Ion:146 Resp: 646
 Ion Ratio Lower Upper
 146 100
 111 20.3 20.6 61.9#
 148 36.2 31.8 95.3



#88
 1,4-Dichlorobenzene
 Concen: 0.207 ug/l
 RT: 13.735 min Scan# 2003
 Delta R.T. -0.076 min
 Lab File: VN082865.D
 Acq: 11 Jul 2024 10:32

Tgt Ion:146 Resp: 646
 Ion Ratio Lower Upper
 146 100
 111 20.3 20.1 60.3
 148 36.2 32.2 96.6





#89

n-Butylbenzene

Concen: 0.527 ug/l

RT: 14.059 min Scan# 2058

Delta R.T. 0.001 min

Lab File: VN082865.D

Acq: 11 Jul 2024 10:32

Instrument :

MSVOA_N

ClientSampleId :

VN0711MBL01

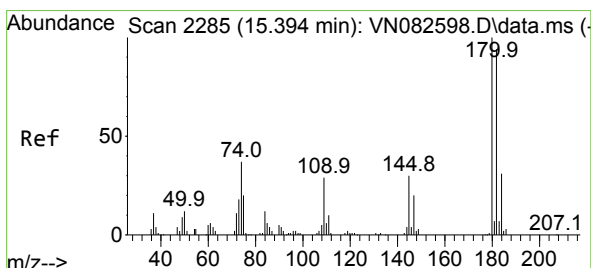
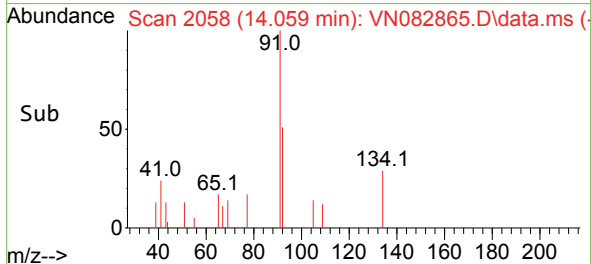
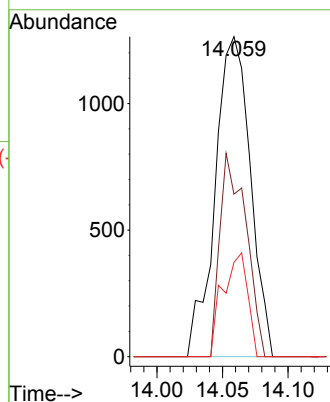
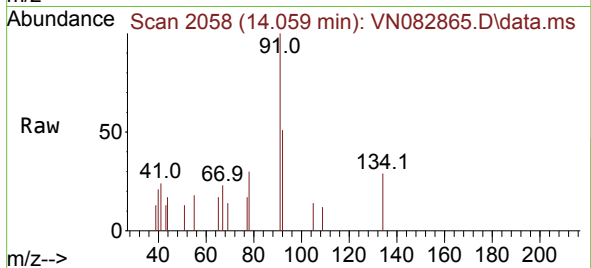
Tgt Ion: 91 Resp: 2361

Ion Ratio Lower Upper

91 100

92 47.1 26.1 78.3

134 22.8 12.1 36.3



#93

1,2,4-Trichlorobenzene

Concen: 0.549 ug/l

RT: 15.394 min Scan# 2285

Delta R.T. -0.000 min

Lab File: VN082865.D

Acq: 11 Jul 2024 10:32

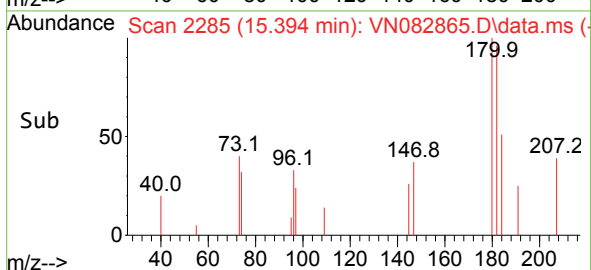
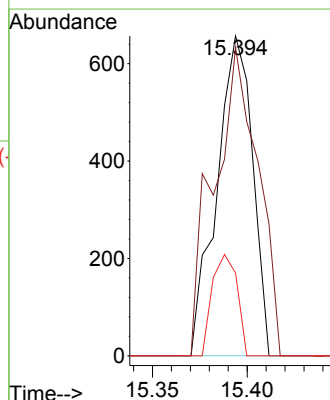
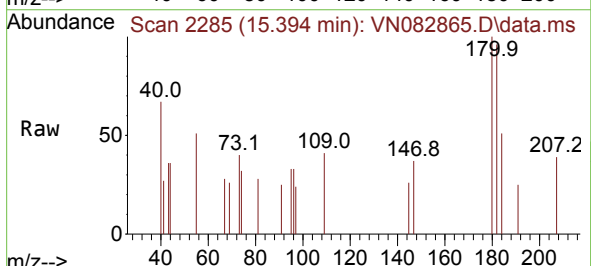
Tgt Ion: 180 Resp: 865

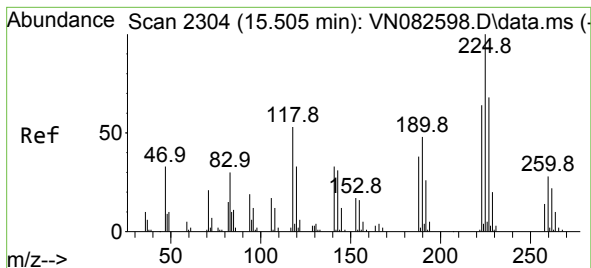
Ion Ratio Lower Upper

180 100

182 118.0 47.3 141.8

145 22.0 15.7 47.1





#94

Hexachlorobutadiene

Concen: 1.427 ug/l

RT: 15.506 min Scan# 21

Delta R.T. 0.001 min

Lab File: VN082865.D

Acq: 11 Jul 2024 10:32

Instrument :

MSVOA_N

ClientSampleId :

VN0711MBL01

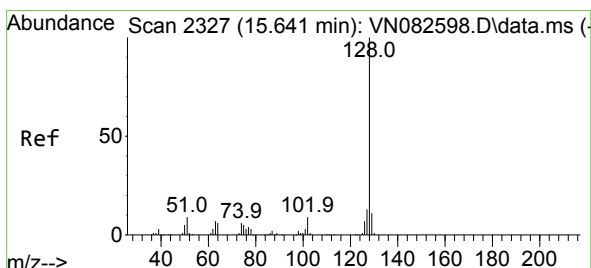
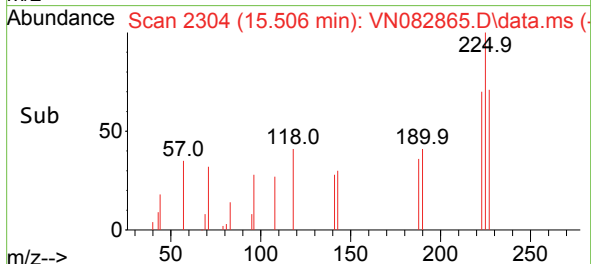
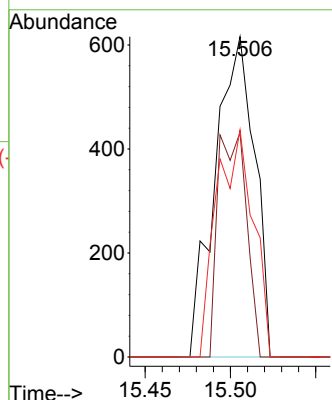
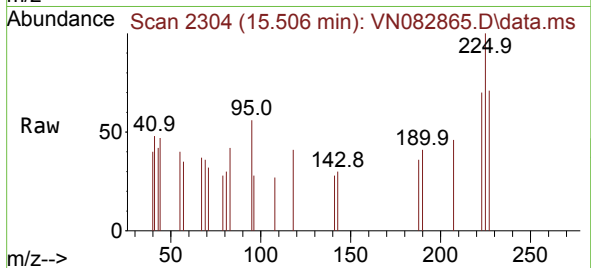
Tgt Ion:225 Resp: 997

Ion Ratio Lower Upper

225 100

223 50.6 31.9 95.7

227 65.8 32.5 97.5



#95

Naphthalene

Concen: 0.624 ug/l

RT: 15.647 min Scan# 2328

Delta R.T. 0.006 min

Lab File: VN082865.D

Acq: 11 Jul 2024 10:32

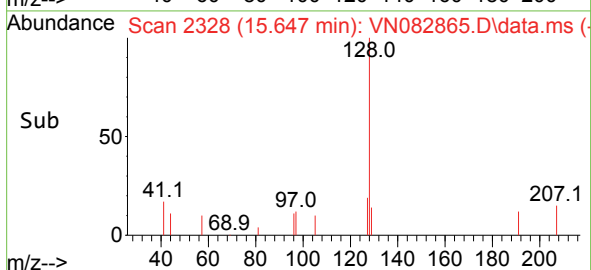
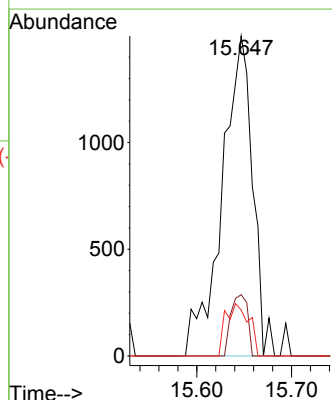
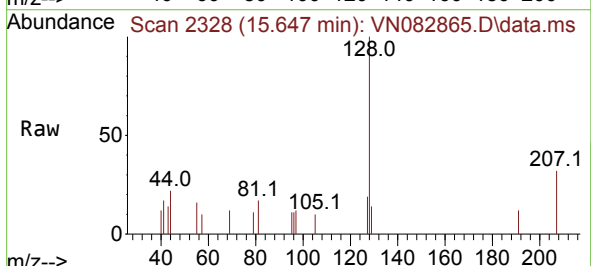
Tgt Ion:128 Resp: 3370

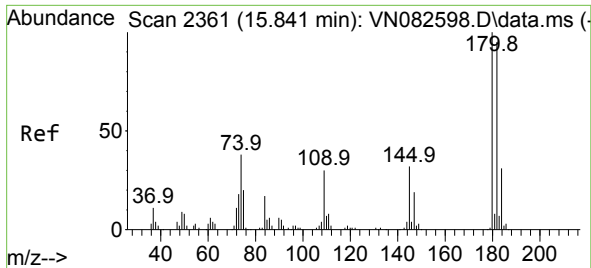
Ion Ratio Lower Upper

128 100

127 10.4 10.6 16.0#

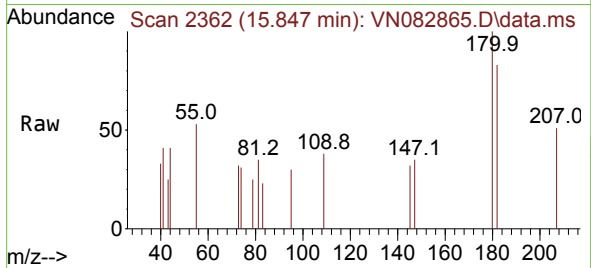
129 12.4 8.6 12.8





#96
 1,2,3-Trichlorobenzene
 Concen: 0.780 ug/l
 RT: 15.847 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN082865.D
 Acq: 11 Jul 2024 10:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0711MBL01



Tgt Ion:	180	Resp:	1265
Ion Ratio	Lower	Upper	
180	100		
182	90.0	48.9	146.8
145	28.9	16.8	50.4

