

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
 Data File : VN085329.D
 Acq On : 27 Dec 2024 16:33
 Operator : JC\MD
 Sample : VN1227WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1227WBL01

Quant Time: Dec 28 01:41:31 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:36:16 2024
 Response via : Initial Calibration

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

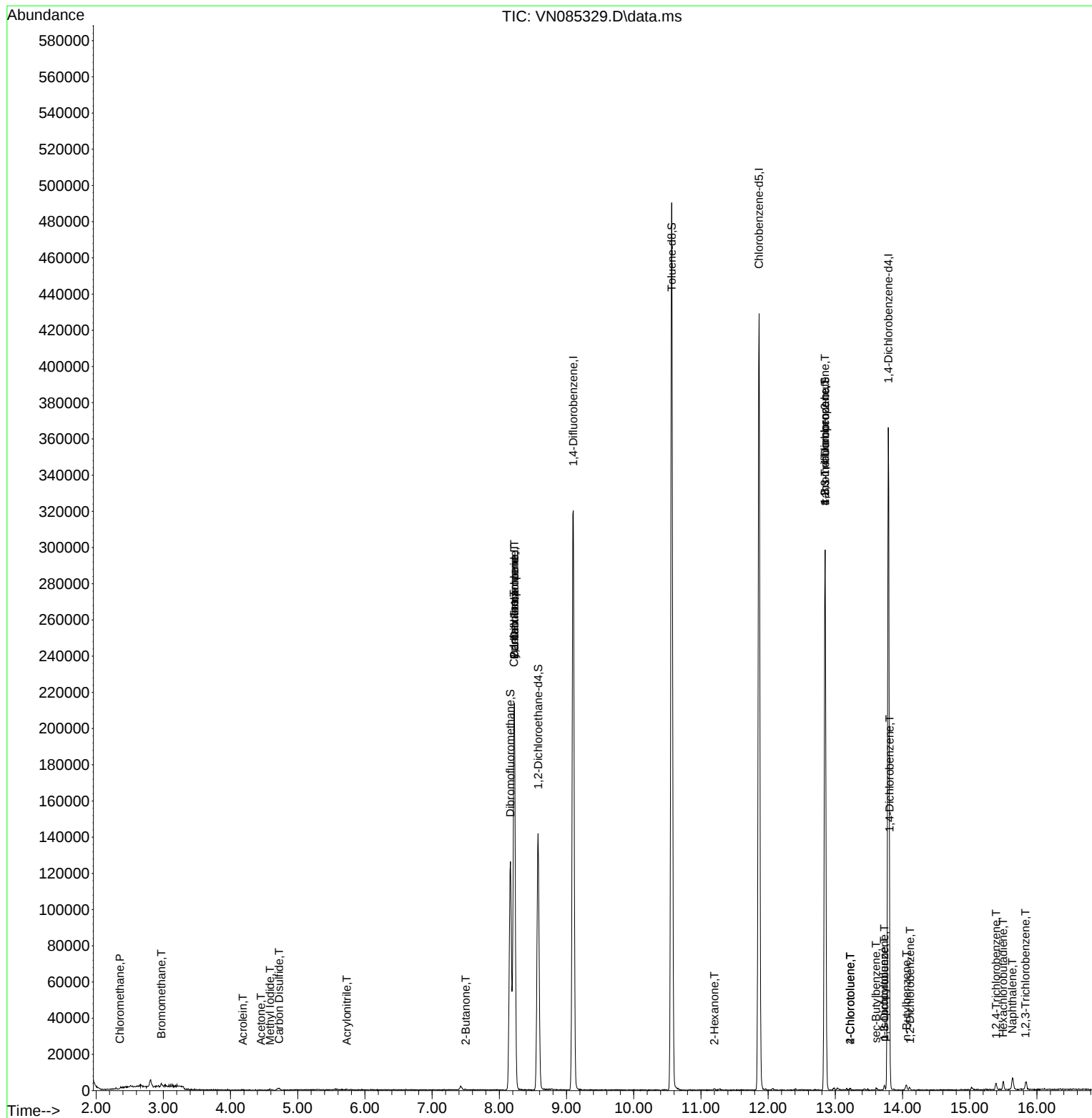
Internal Standards						
1) Pentafluorobenzene	8.224	168	146718	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	272578	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	232422	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	90060	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	116968	55.896	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 111.800%			
35) Dibromofluoromethane	8.165	113	89459	52.608	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.220%			
50) Toluene-d8	10.565	98	331120	53.064	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.120%			
62) 4-Bromofluorobenzene	12.847	95	101561	49.007	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 98.020%			
Target Compounds					Qvalue	
3) Chloromethane	2.354	50	560	0.251	ug/l #	43
5) Bromomethane	2.971	94	1130	0.733	ug/l	99
10) Methyl Iodide	4.589	142	896	0.439	ug/l #	40
13) Acrolein	4.183	56	262	0.641	ug/l #	14
15) Acrylonitrile	5.730	53	230	0.279	ug/l #	39
16) Acetone	4.454	43	214	0.311	ug/l #	44
17) Carbon Disulfide	4.724	76	2557	0.516	ug/l #	75
25) 2-Butanone	7.500	43	301	0.282	ug/l #	51
31) Cyclohexane	8.218	56	3883	1.255	ug/l #	28
36) 1,1-Dichloropropene	8.224	75	13389	5.378	ug/l #	50
38) Carbon Tetrachloride	8.224	117	17107	6.304	ug/l #	17
59) 2-Hexanone	11.200	43	615	0.387	ug/l #	58
76) 1,2,3-Trichloropropane	12.847	75	55837	33.201	ug/l #	1
79) 2-Chlorotoluene	13.224	91	963	0.203	ug/l	92
81) trans-1,4-Dichloro-2-b...	12.847	75	55837	79.512	ug/l #	10
82) 4-Chlorotoluene	13.224	91	963	0.201	ug/l	90
85) sec-Butylbenzene	13.606	105	1514	0.240	ug/l #	69
86) p-Isopropyltoluene	13.724	119	918	0.365	ug/l #	64
87) 1,3-Dichlorobenzene	13.729	146	1032	0.355	ug/l #	65
88) 1,4-Dichlorobenzene	13.806	146	1202	0.402	ug/l #	22
89) n-Butylbenzene	14.059	91	2261	0.490	ug/l	94
91) 1,2-Dichlorobenzene	14.112	146	868	0.313	ug/l	80
93) 1,2,4-Trichlorobenzene	15.394	180	1811	1.310	ug/l	86
94) Hexachlorobutadiene	15.494	225	1126	1.639	ug/l	82
95) Naphthalene	15.635	128	7529	1.606	ug/l #	97
96) 1,2,3-Trichlorobenzene	15.829	180	2101	1.521	ug/l	86

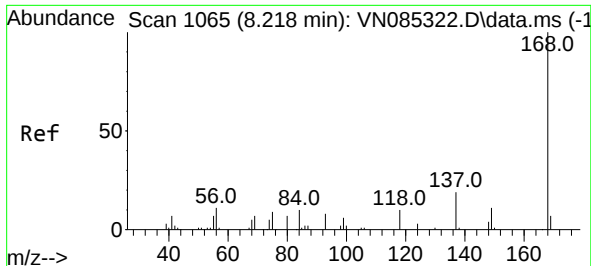
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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Response via : Initial Calibration

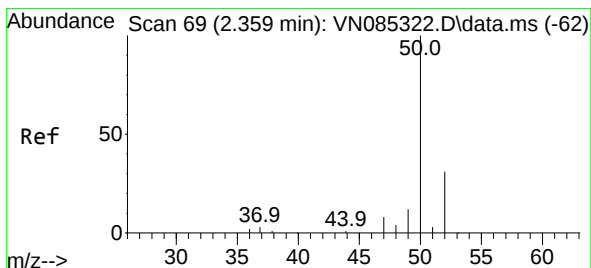
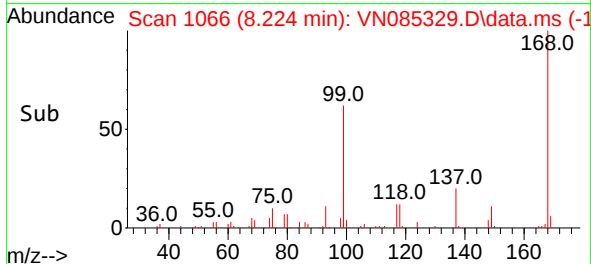
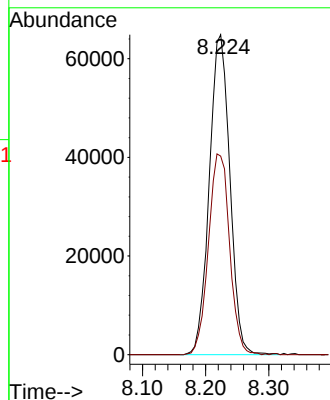
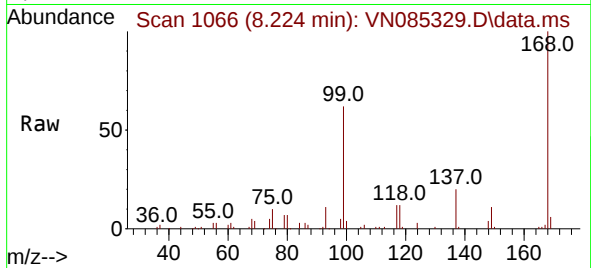




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085329.D
Acq: 27 Dec 2024 16:33

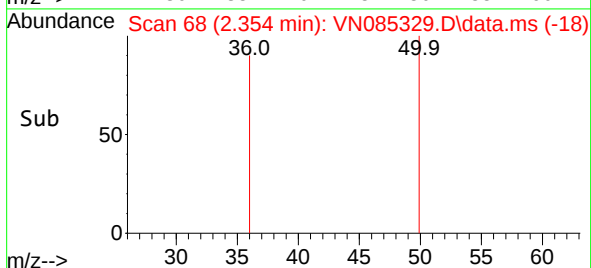
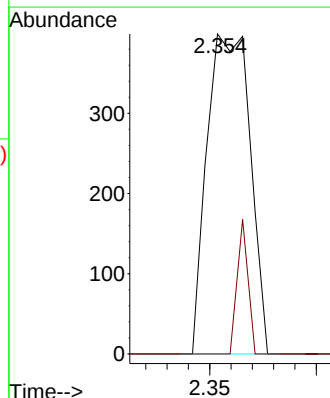
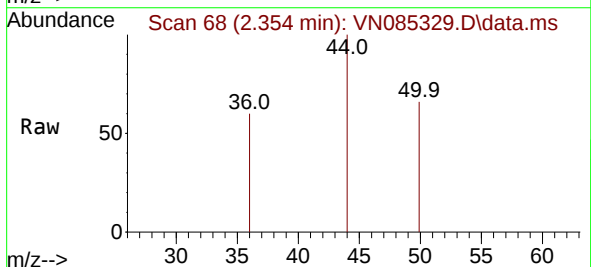
Instrument :
MSVOA_N
ClientSampleId :
VN1227WBL01

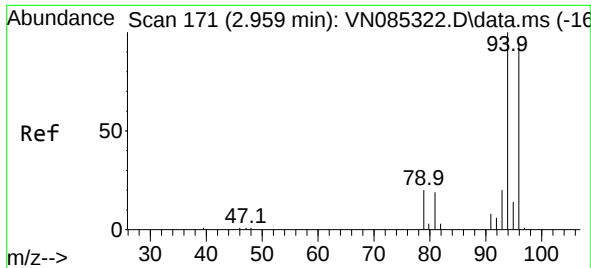
Tgt Ion:168 Resp: 146718
Ion Ratio Lower Upper
168 100
99 62.0 51.0 76.4



#3
Chloromethane
Concen: 0.251 ug/l
RT: 2.354 min Scan# 68
Delta R.T. -0.006 min
Lab File: VN085329.D
Acq: 27 Dec 2024 16:33

Tgt Ion: 50 Resp: 560
Ion Ratio Lower Upper
50 100
52 0.0 25.1 37.7#

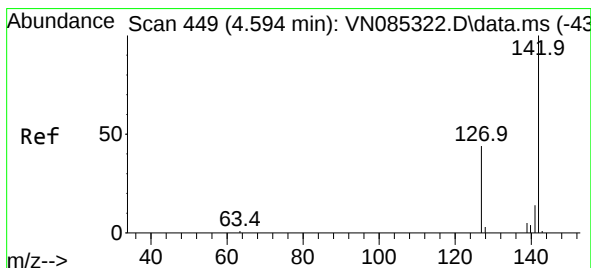
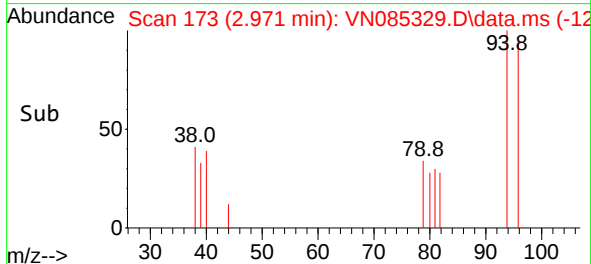
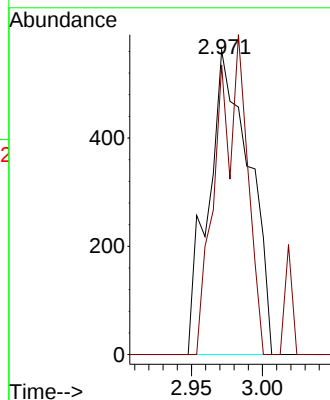
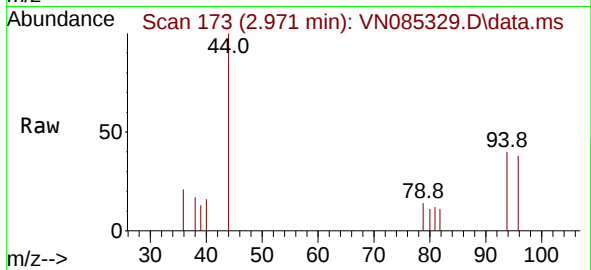




#5
Bromomethane
Concen: 0.733 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN085329.D
Acq: 27 Dec 2024 16:33

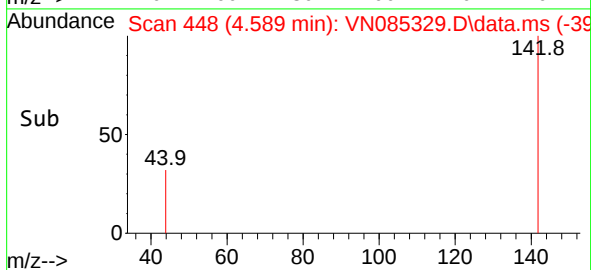
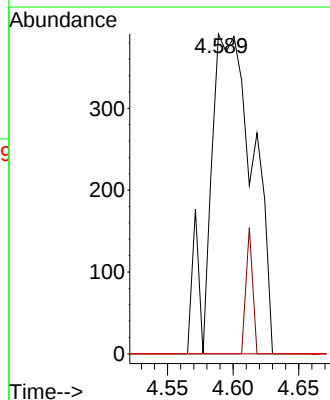
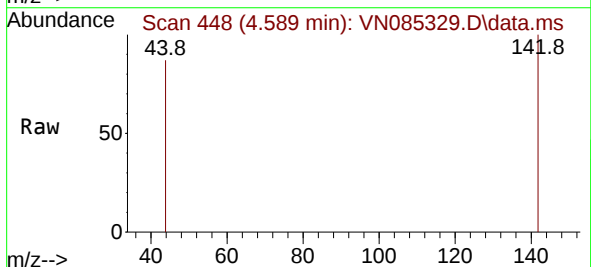
Instrument :
MSVOA_N
ClientSampleId :
VN1227WBL01

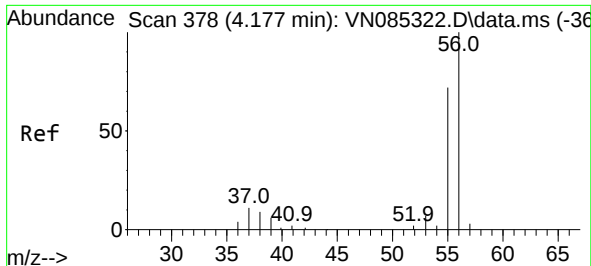
Tgt Ion: 94 Resp: 1130
Ion Ratio Lower Upper
94 100
96 95.2 75.2 112.8



#10
Methyl Iodide
Concen: 0.439 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.006 min
Lab File: VN085329.D
Acq: 27 Dec 2024 16:33

Tgt Ion: 142 Resp: 896
Ion Ratio Lower Upper
142 100
127 0.0 35.3 52.9#
141 0.0 11.5 17.3#





#13

Acrolein

Concen: 0.641 ug/l

RT: 4.183 min Scan# 31

Delta R.T. 0.006 min

Lab File: VN085329.D

Acq: 27 Dec 2024 16:33

Instrument :

MSVOA_N

ClientSampleId :

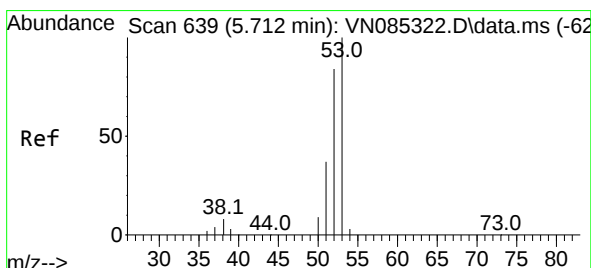
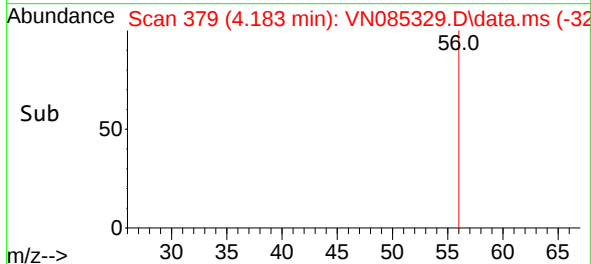
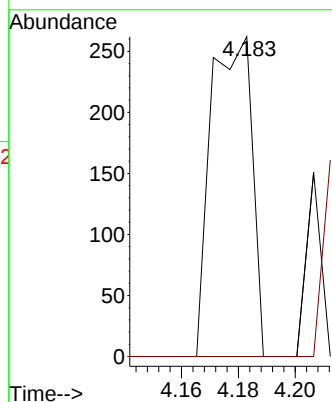
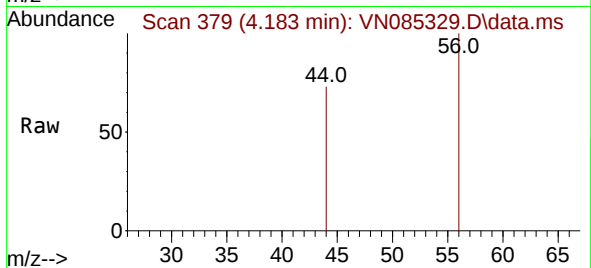
VN1227WBL01

Tgt Ion: 56 Resp: 262

Ion Ratio Lower Upper

56 100

55 0.0 57.5 86.3#



#15

Acrylonitrile

Concen: 0.279 ug/l

RT: 5.730 min Scan# 642

Delta R.T. 0.018 min

Lab File: VN085329.D

Acq: 27 Dec 2024 16:33

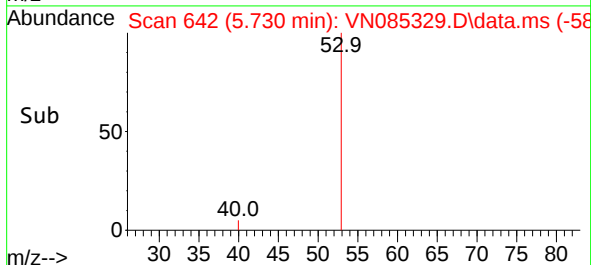
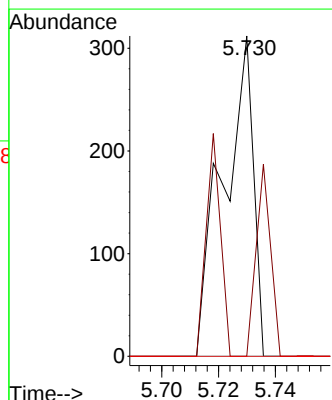
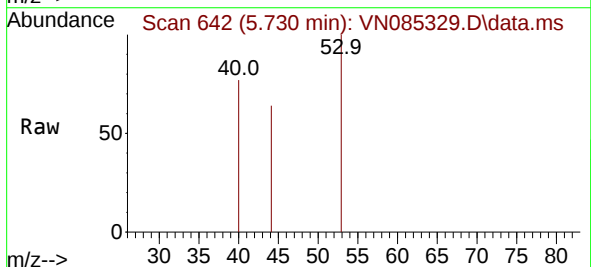
Tgt Ion: 53 Resp: 230

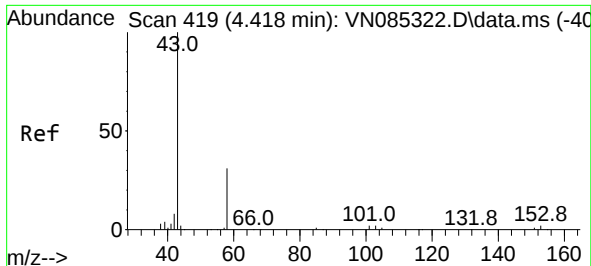
Ion Ratio Lower Upper

53 100

52 28.7 66.6 100.0#

51 0.0 29.6 44.4#





#16

Acetone

Concen: 0.311 ug/l

RT: 4.454 min Scan# 419

Delta R.T. 0.036 min

Lab File: VN085329.D

Acq: 27 Dec 2024 16:33

Instrument :

MSVOA_N

ClientSampleId :

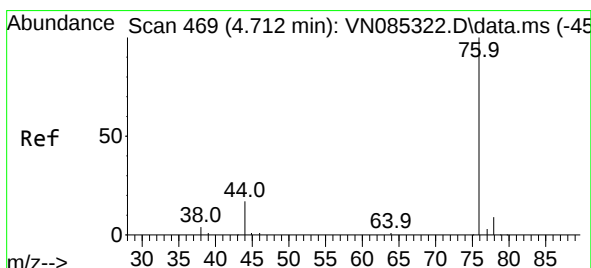
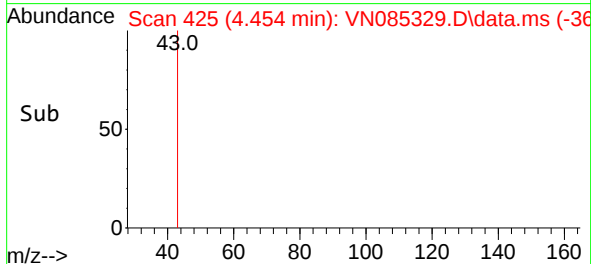
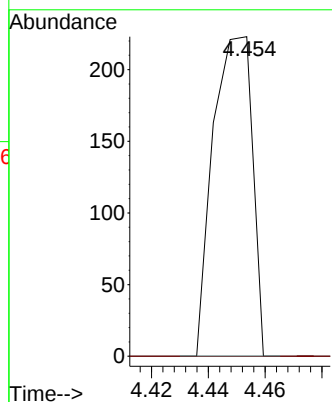
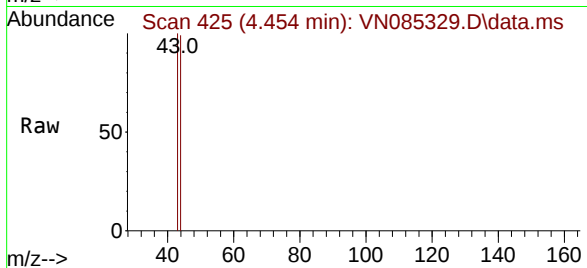
VN1227WBL01

Tgt Ion: 43 Resp: 214

Ion Ratio Lower Upper

43 100

58 0.0 24.5 36.7#



#17

Carbon Disulfide

Concen: 0.516 ug/l

RT: 4.724 min Scan# 471

Delta R.T. 0.012 min

Lab File: VN085329.D

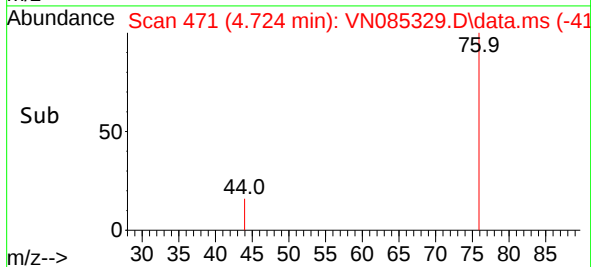
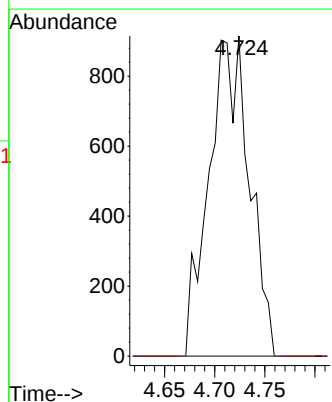
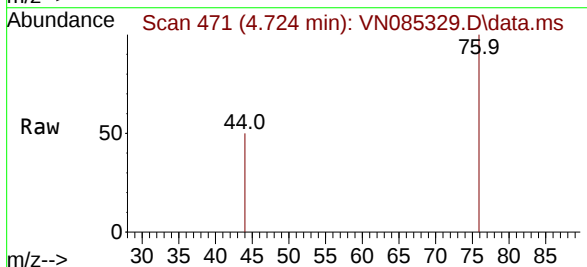
Acq: 27 Dec 2024 16:33

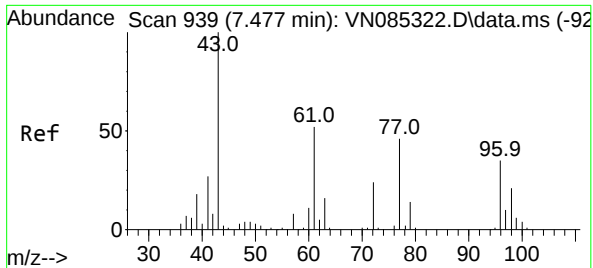
Tgt Ion: 76 Resp: 2557

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#

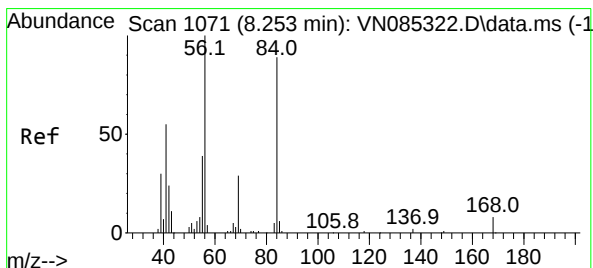
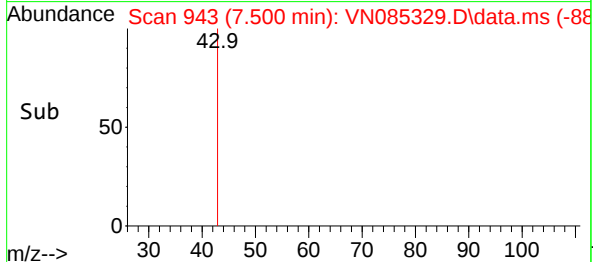
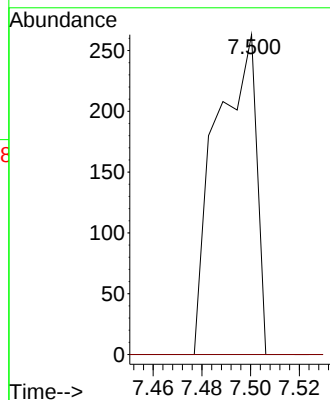
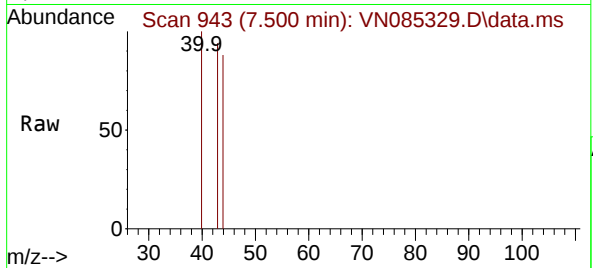




#25
2-Butanone
Concen: 0.282 ug/l
RT: 7.500 min Scan# 94
Delta R.T. 0.024 min
Lab File: VN085329.D
Acq: 27 Dec 2024 16:33

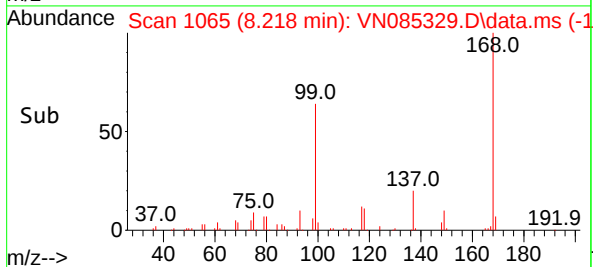
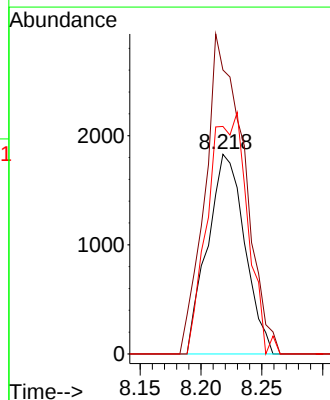
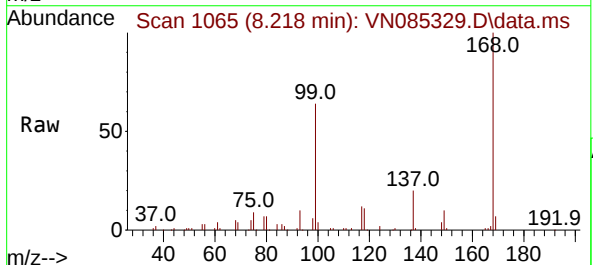
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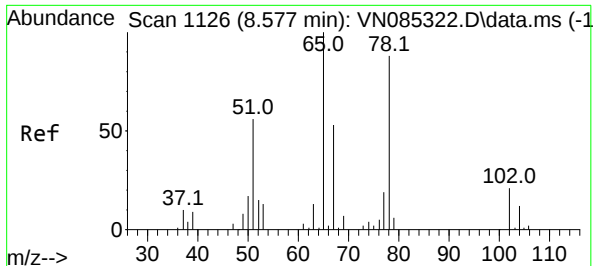
Tgt Ion: 43 Resp: 301
Ion Ratio Lower Upper
43 100
72 0.0 19.6 29.4#



#31
Cyclohexane
Concen: 1.255 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.035 min
Lab File: VN085329.D
Acq: 27 Dec 2024 16:33

Tgt Ion: 56 Resp: 3883
Ion Ratio Lower Upper
56 100
69 142.2 23.4 35.0#
84 113.9 71.0 106.6#





#33

1,2-Dichloroethane-d4

Concen: 55.896 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN085329.D

Acq: 27 Dec 2024 16:33

Instrument :

MSVOA_N

ClientSampleId :

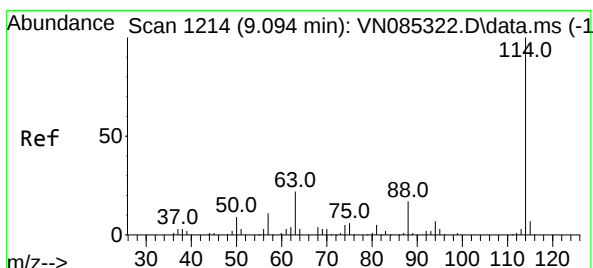
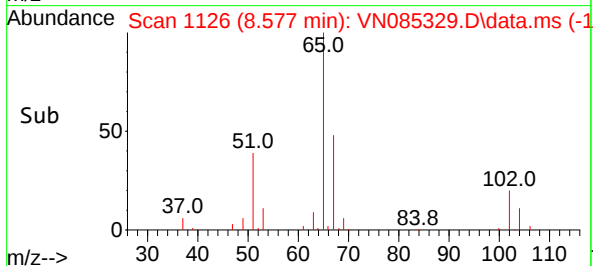
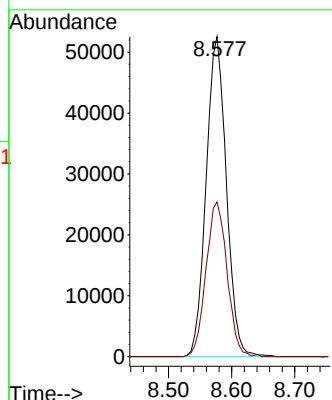
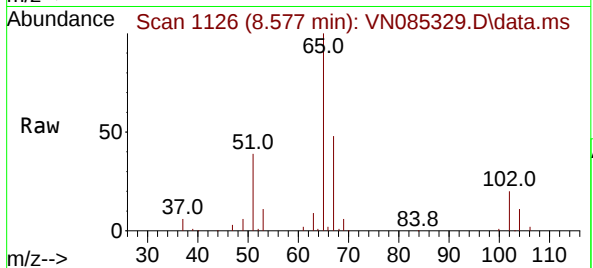
VN1227WBL01

Tgt Ion: 65 Resp: 116968

Ion Ratio Lower Upper

65 100

67 50.5 0.0 104.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN085329.D

Acq: 27 Dec 2024 16:33

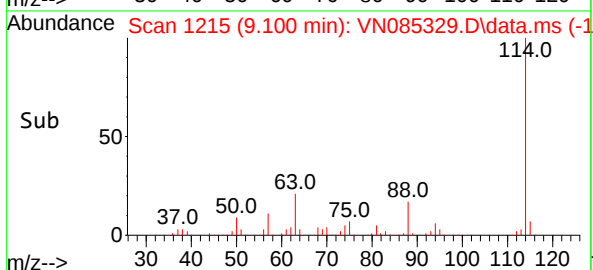
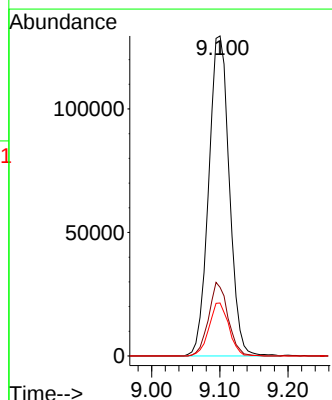
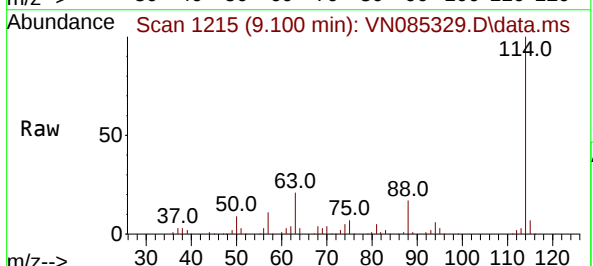
Tgt Ion: 114 Resp: 272578

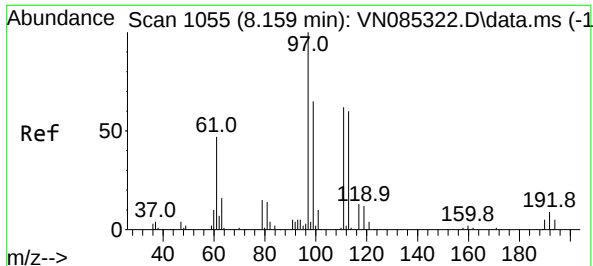
Ion Ratio Lower Upper

114 100

63 21.4 0.0 43.4

88 16.6 0.0 33.6





#35

Dibromofluoromethane

Concen: 52.608 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085329.D

Acq: 27 Dec 2024 16:33

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBL01

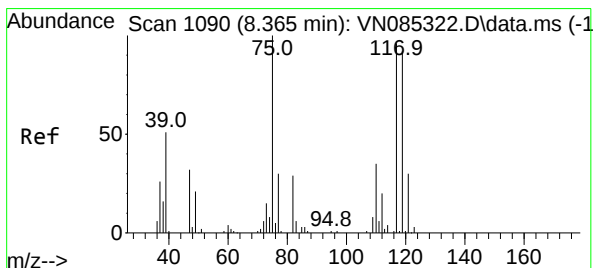
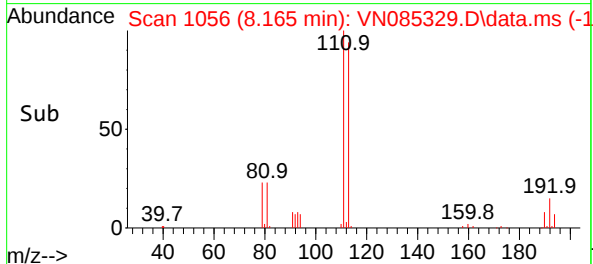
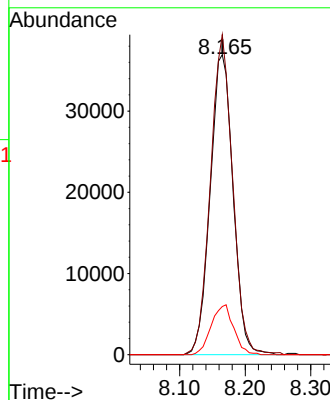
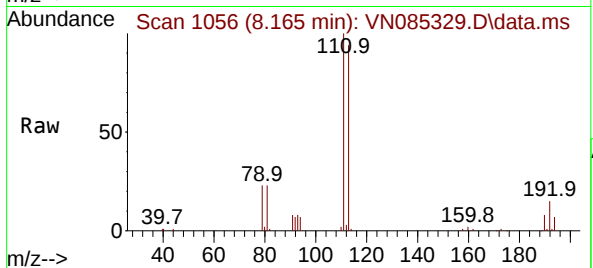
Tgt Ion:113 Resp: 89459

Ion Ratio Lower Upper

113 100

111 103.4 80.5 120.7

192 16.3 12.9 19.3



#36

1,1-Dichloropropene

Concen: 5.378 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN085329.D

Acq: 27 Dec 2024 16:33

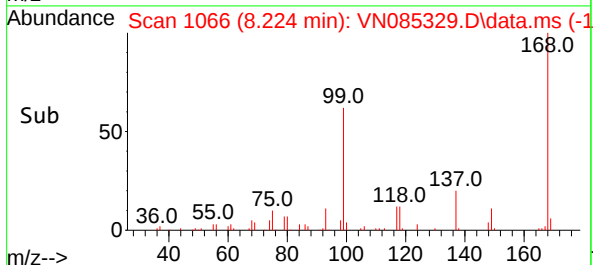
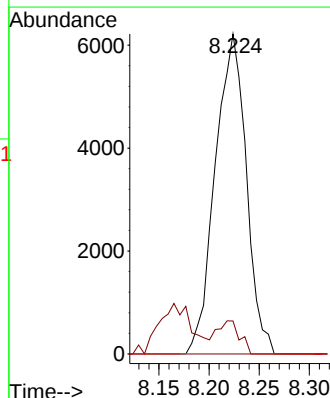
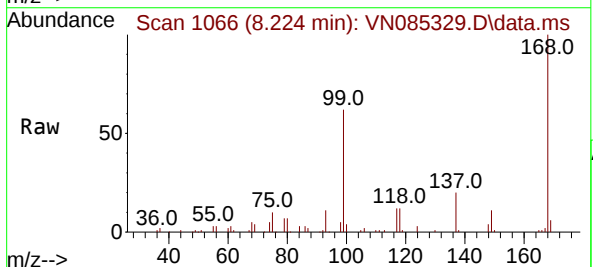
Tgt Ion: 75 Resp: 13389

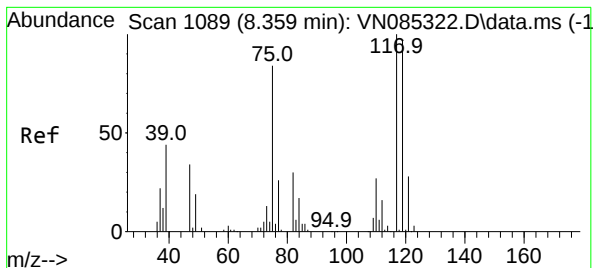
Ion Ratio Lower Upper

75 100

110 7.5 16.6 49.8#

77 0.0 24.3 36.5#





#38

Carbon Tetrachloride

Concen: 6.304 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

Lab File: VN085329.D

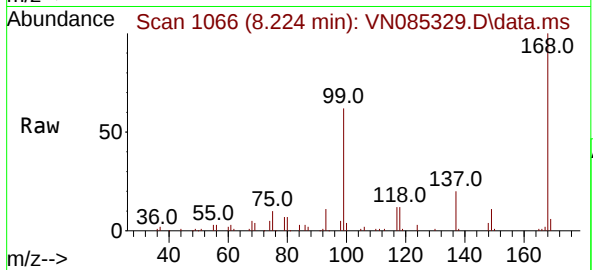
Acq: 27 Dec 2024 16:33

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBL01



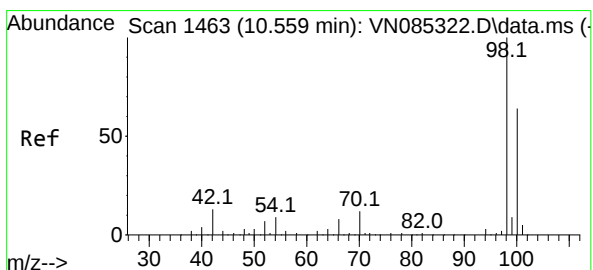
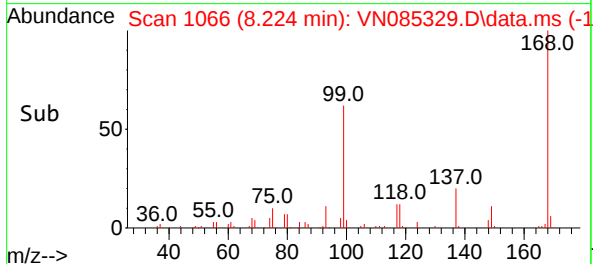
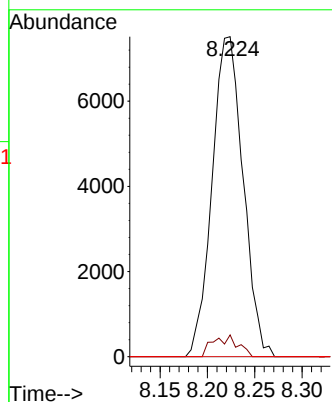
Tgt Ion:117 Resp: 17107

Ion Ratio Lower Upper

117 100

119 6.8 77.8 116.6#

121 0.0 22.5 33.7#



#50

Toluene-d8

Concen: 53.064 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.006 min

Lab File: VN085329.D

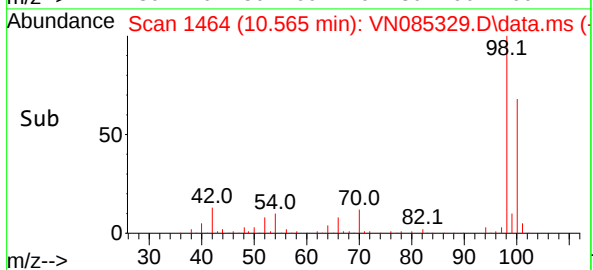
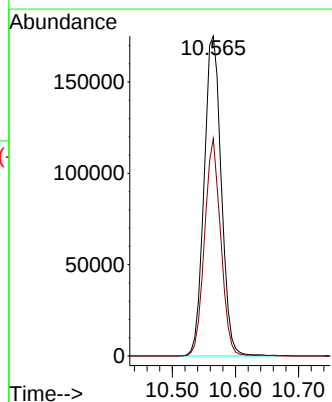
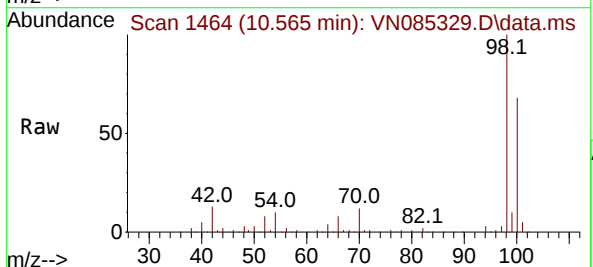
Acq: 27 Dec 2024 16:33

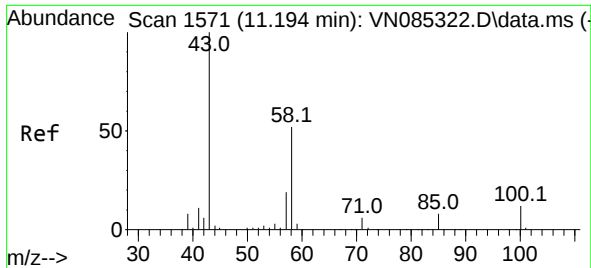
Tgt Ion: 98 Resp: 331120

Ion Ratio Lower Upper

98 100

100 63.9 51.5 77.3

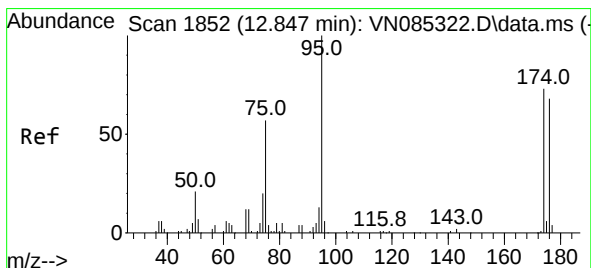
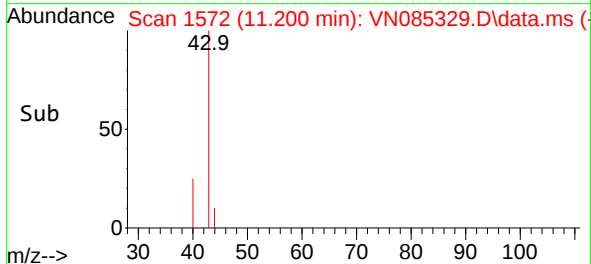
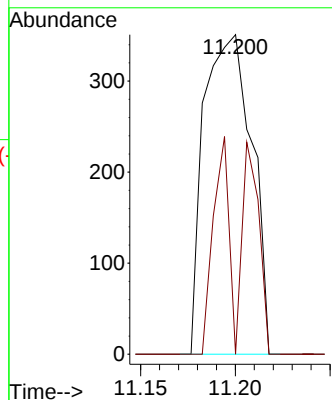
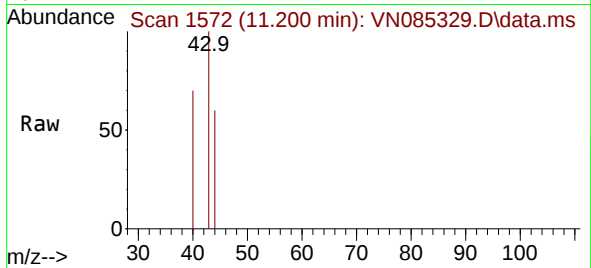




#59
2-Hexanone
Concen: 0.387 ug/l
RT: 11.200 min Scan# 111
Delta R.T. 0.006 min
Lab File: VN085329.D
Acq: 27 Dec 2024 16:33

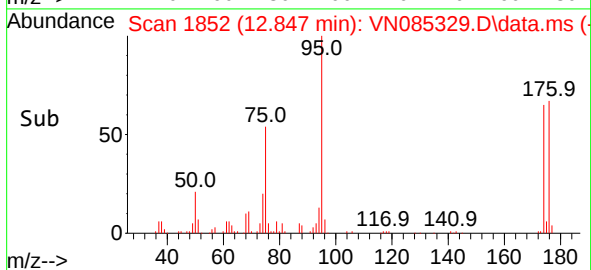
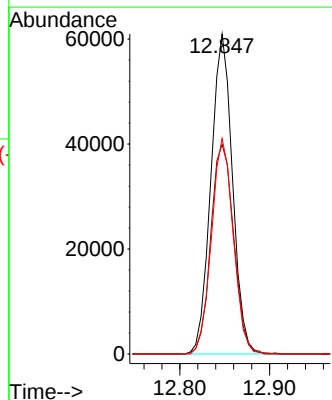
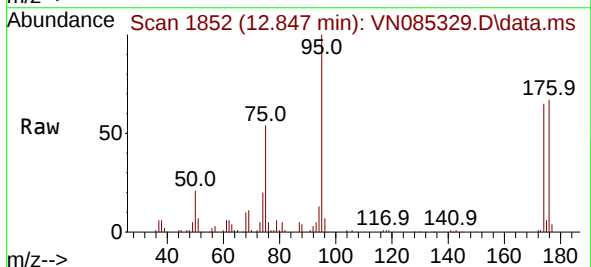
Instrument :
MSVOA_N
ClientSampleId :
VN1227WBL01

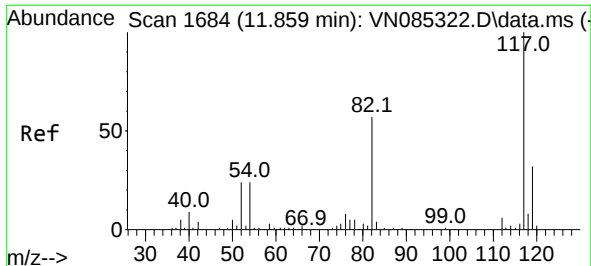
Tgt Ion: 43 Resp: 615
Ion Ratio Lower Upper
43 100
58 23.1 26.5 79.5#



#62
4-Bromofluorobenzene
Concen: 49.007 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085329.D
Acq: 27 Dec 2024 16:33

Tgt Ion: 95 Resp: 101561
Ion Ratio Lower Upper
95 100
174 69.6 0.0 143.2
176 67.9 0.0 135.8

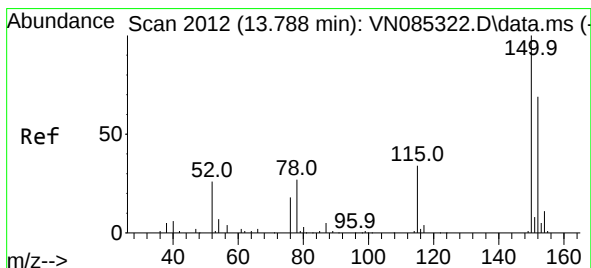
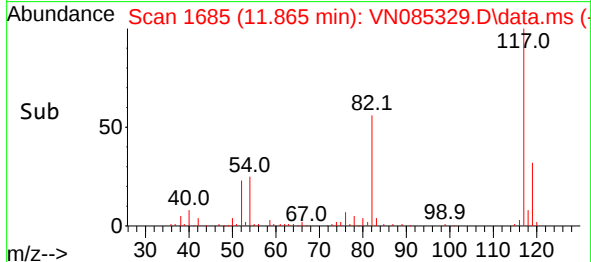
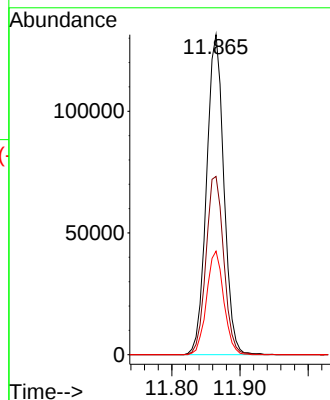
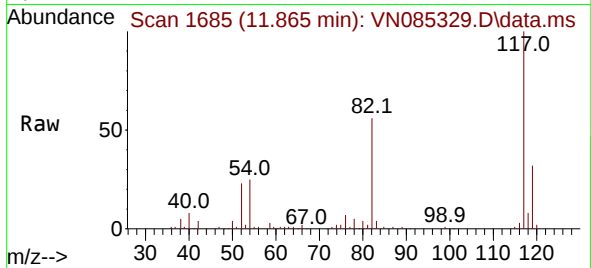




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085329.D
Acq: 27 Dec 2024 16:33

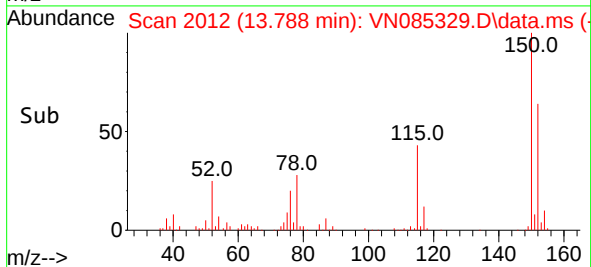
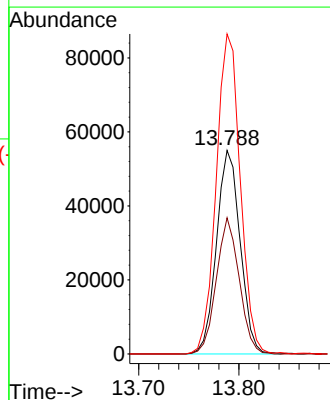
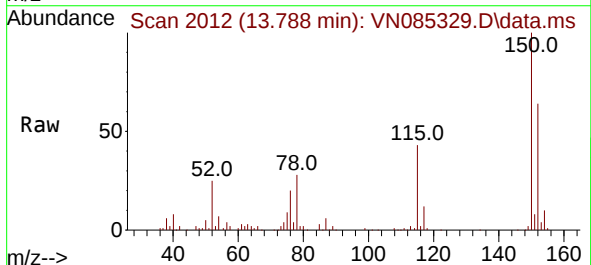
Instrument :
MSVOA_N
ClientSampleId :
VN1227WBL01

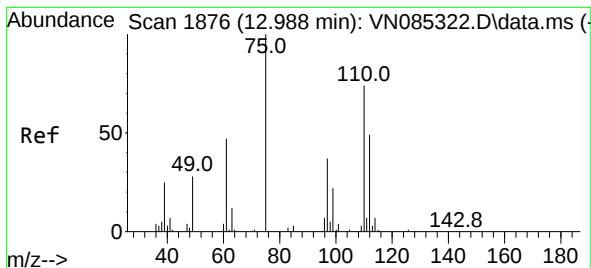
Tgt Ion:117 Resp: 232422
Ion Ratio Lower Upper
117 100
82 55.7 45.7 68.5
119 32.4 25.8 38.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN085329.D
Acq: 27 Dec 2024 16:33

Tgt Ion:152 Resp: 90060
Ion Ratio Lower Upper
152 100
115 64.6 30.4 91.3
150 160.0 0.0 345.0





#76

1,2,3-Trichloropropane

Concen: 33.201 ug/l

RT: 12.847 min Scan# 11

Delta R.T. -0.141 min

Lab File: VN085329.D

Acq: 27 Dec 2024 16:33

Instrument :

MSVOA_N

ClientSampleId :

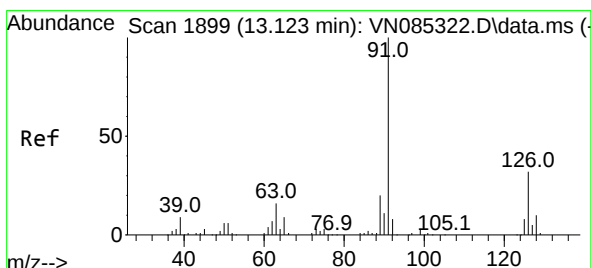
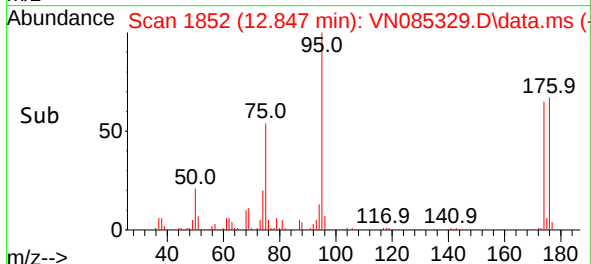
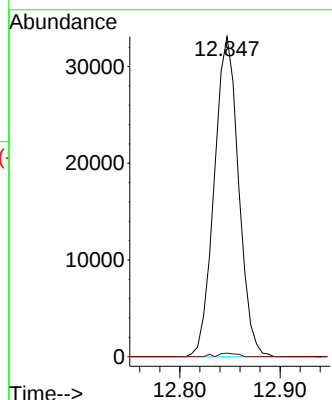
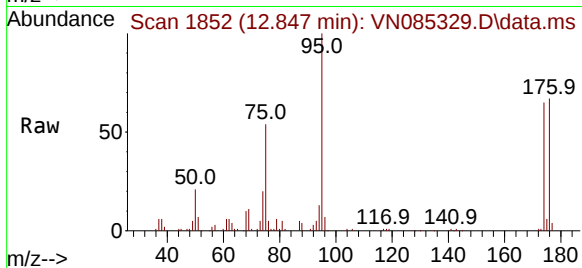
VN1227WBL01

Tgt Ion: 75 Resp: 55837

Ion Ratio Lower Upper

75 100

77 0.9 98.1 294.3#



#79

2-Chlorotoluene

Concen: 0.203 ug/l

RT: 13.224 min Scan# 1916

Delta R.T. 0.100 min

Lab File: VN085329.D

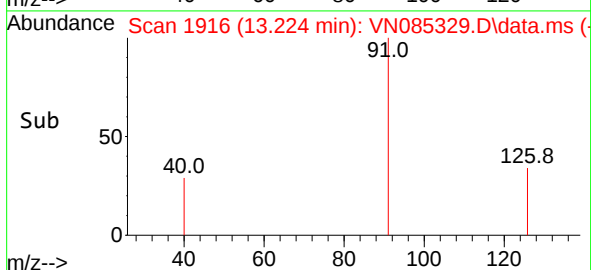
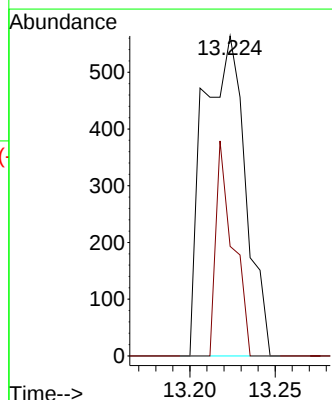
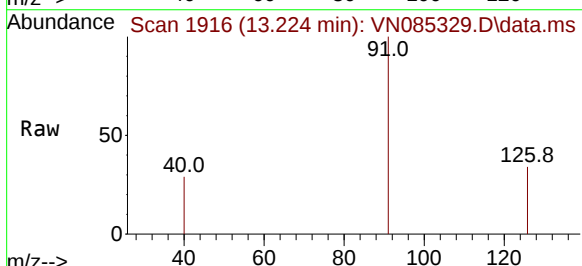
Acq: 27 Dec 2024 16:33

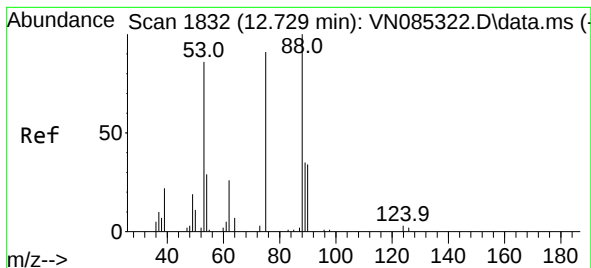
Tgt Ion: 91 Resp: 963

Ion Ratio Lower Upper

91 100

126 27.5 16.0 48.0

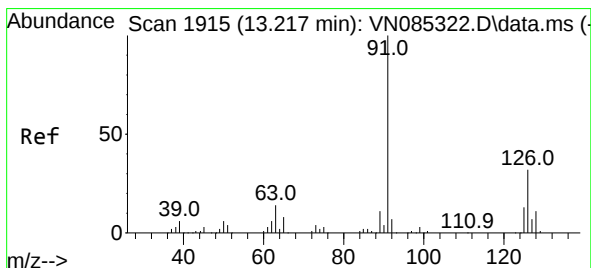
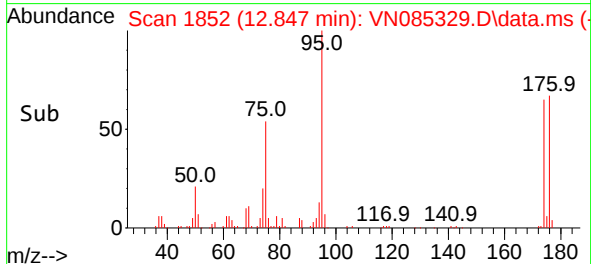
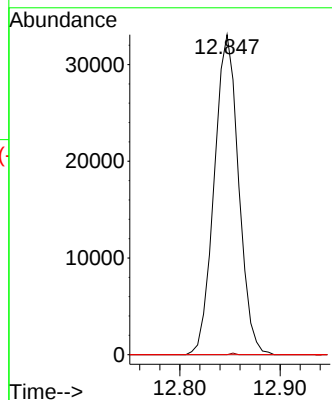
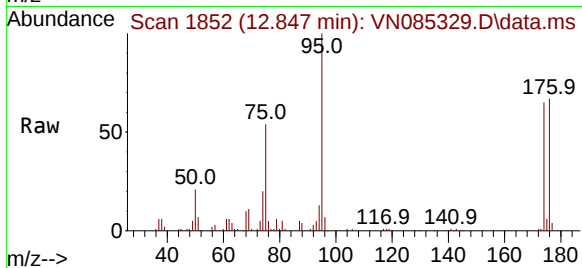




#81
trans-1,4-Dichloro-2-butene
Concen: 79.512 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.118 min
Lab File: VN085329.D
Acq: 27 Dec 2024 16:33

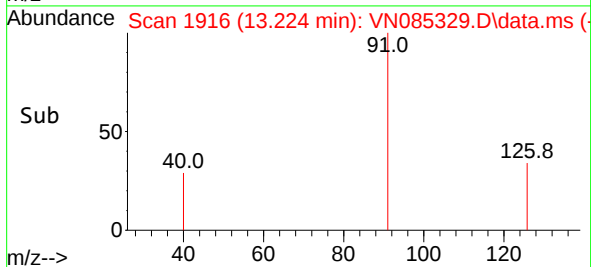
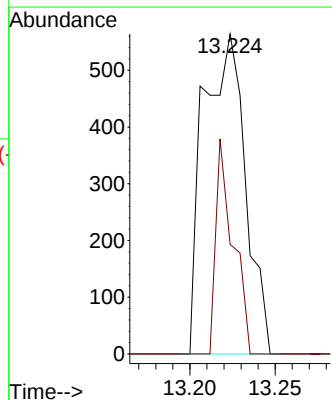
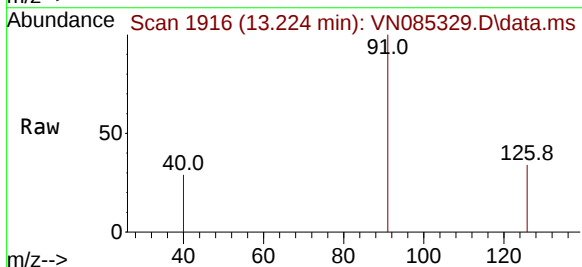
Instrument :
MSVOA_N
ClientSampleId :
VN1227WBL01

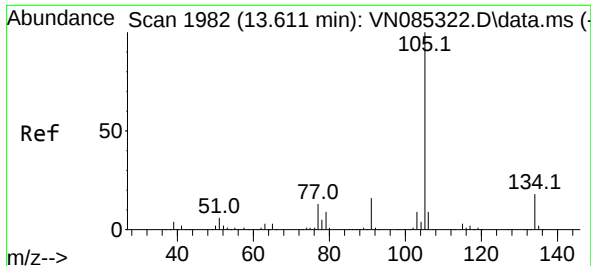
Tgt Ion: 75 Resp: 55837
Ion Ratio Lower Upper
75 100
53 0.1 80.0 120.0#
89 0.0 35.8 53.8#



#82
4-Chlorotoluene
Concen: 0.201 ug/l
RT: 13.224 min Scan# 1916
Delta R.T. 0.006 min
Lab File: VN085329.D
Acq: 27 Dec 2024 16:33

Tgt Ion: 91 Resp: 963
Ion Ratio Lower Upper
91 100
126 27.5 16.4 49.4

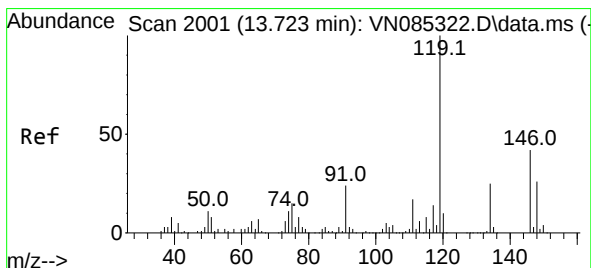
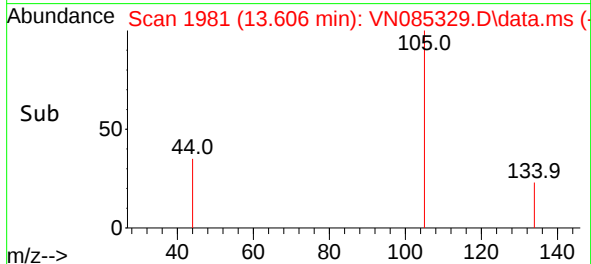
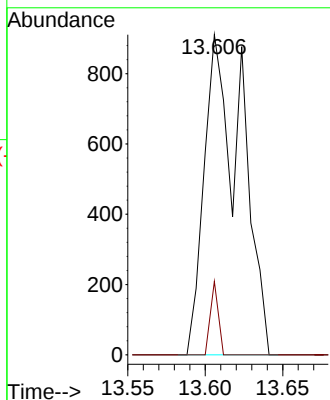
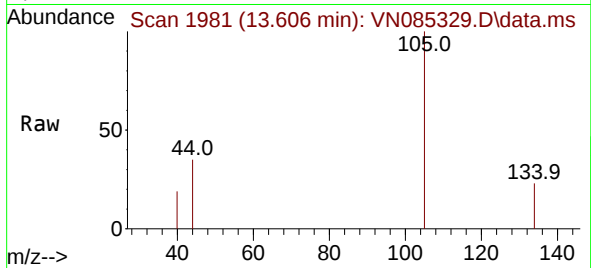




#85
 sec-Butylbenzene
 Concen: 0.240 ug/l
 RT: 13.606 min Scan# 1982
 Delta R.T. -0.006 min
 Lab File: VN085329.D
 Acq: 27 Dec 2024 16:33

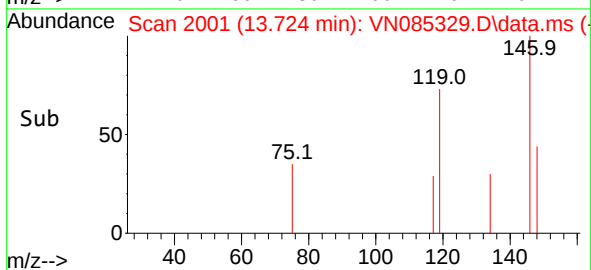
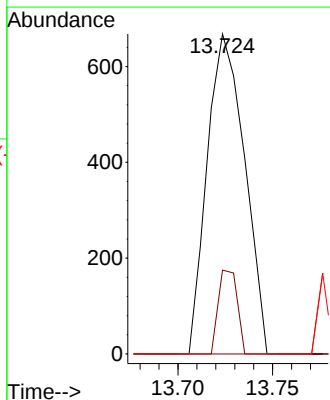
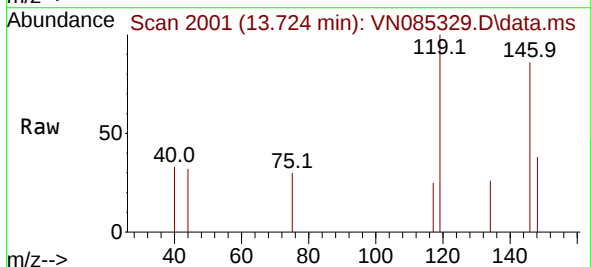
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1227WBL01

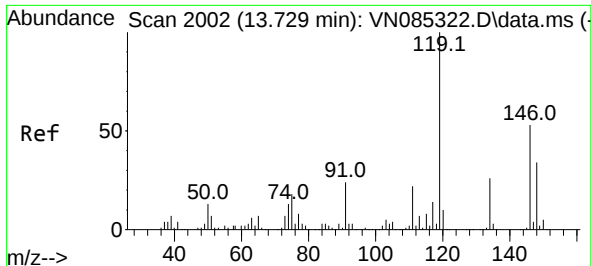
Tgt Ion:105 Resp: 1514
 Ion Ratio Lower Upper
 105 100
 134 4.9 9.4 28.3#



#86
 p-Isopropyltoluene
 Concen: 0.365 ug/l
 RT: 13.724 min Scan# 2001
 Delta R.T. 0.000 min
 Lab File: VN085329.D
 Acq: 27 Dec 2024 16:33

Tgt Ion:119 Resp: 918
 Ion Ratio Lower Upper
 119 100
 134 13.2 12.5 37.5
 91 0.0 12.2 36.4#





#87

1,3-Dichlorobenzene

Concen: 0.355 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN085329.D

Acq: 27 Dec 2024 16:33

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBL01

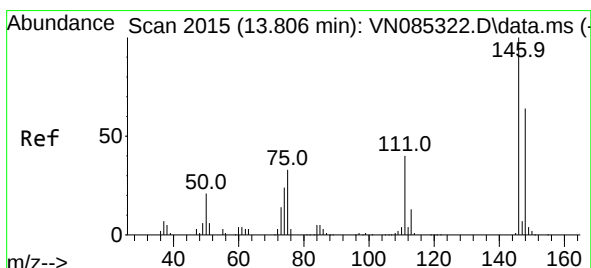
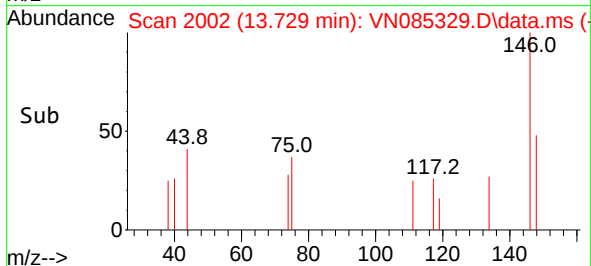
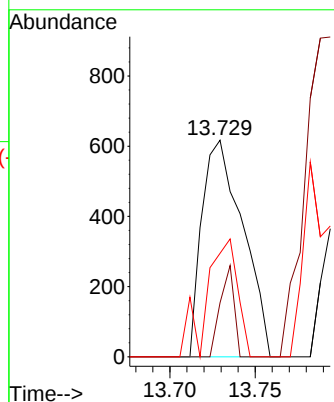
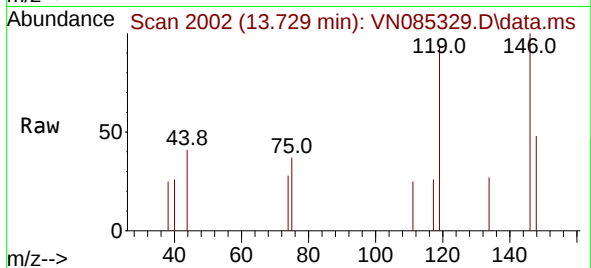
Tgt Ion:146 Resp: 1032

Ion Ratio Lower Upper

146 100

111 14.1 21.3 63.9#

148 41.4 31.5 94.5



#88

1,4-Dichlorobenzene

Concen: 0.402 ug/l

RT: 13.806 min Scan# 2015

Delta R.T. 0.000 min

Lab File: VN085329.D

Acq: 27 Dec 2024 16:33

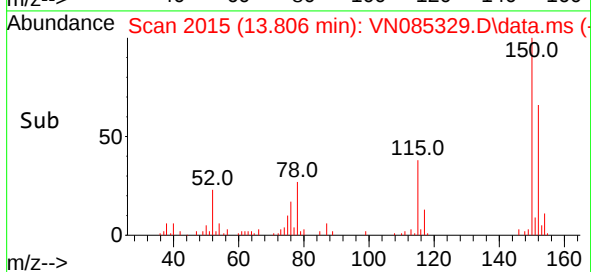
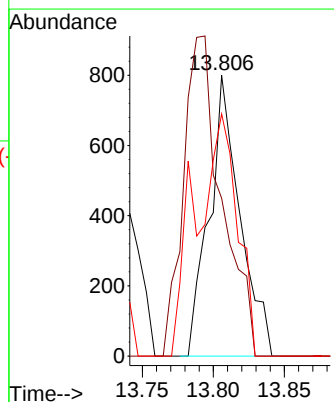
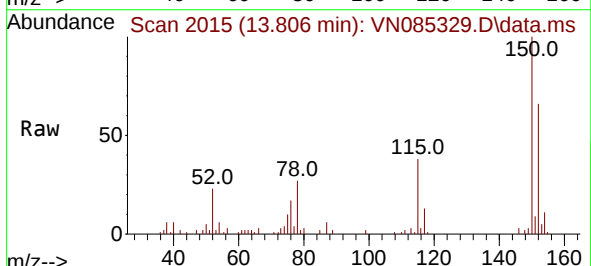
Tgt Ion:146 Resp: 1202

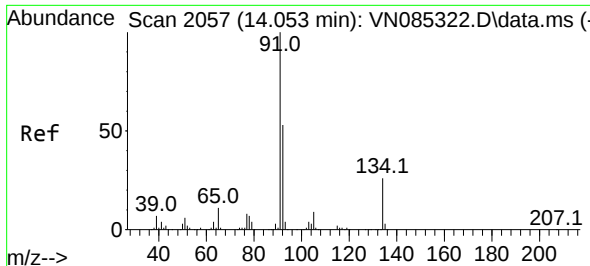
Ion Ratio Lower Upper

146 100

111 141.6 20.8 62.5#

148 83.1 31.7 95.1





#89

n-Butylbenzene

Concen: 0.490 ug/l

RT: 14.059 min Scan# 2058

Delta R.T. 0.006 min

Lab File: VN085329.D

Acq: 27 Dec 2024 16:33

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBL01

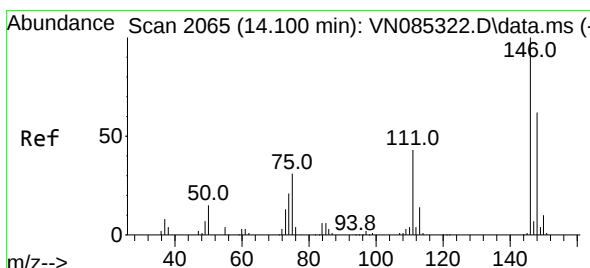
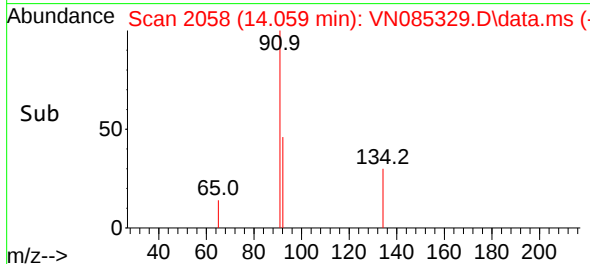
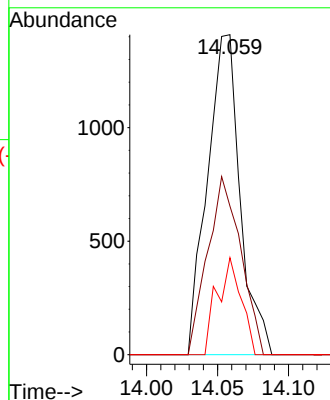
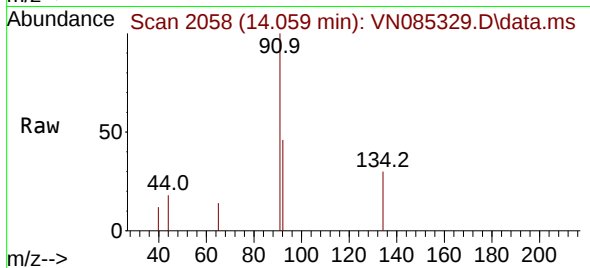
Tgt Ion: 91 Resp: 2261

Ion Ratio Lower Upper

91 100

92 56.5 26.0 78.0

134 22.2 12.1 36.3



#91

1,2-Dichlorobenzene

Concen: 0.313 ug/l

RT: 14.112 min Scan# 2067

Delta R.T. 0.012 min

Lab File: VN085329.D

Acq: 27 Dec 2024 16:33

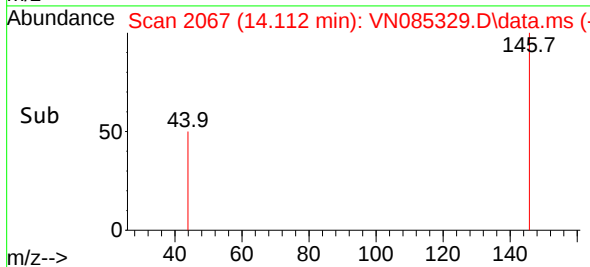
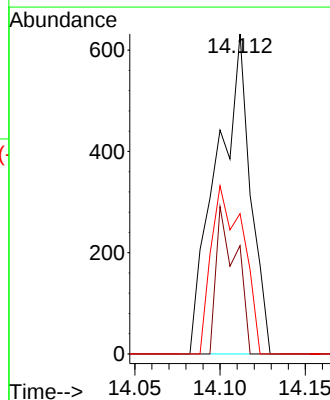
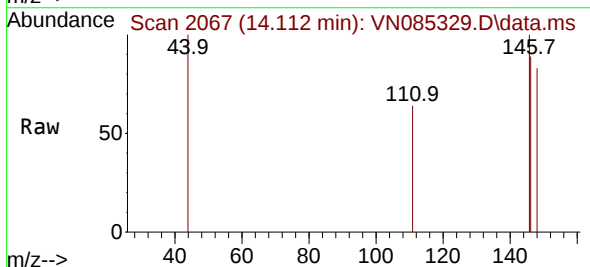
Tgt Ion: 146 Resp: 868

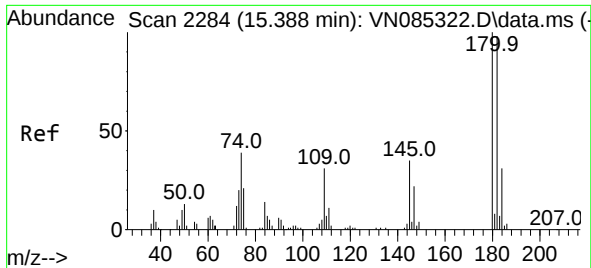
Ion Ratio Lower Upper

146 100

111 27.5 21.8 65.3

148 49.4 31.4 94.2

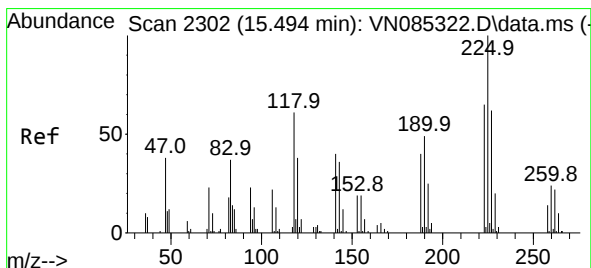
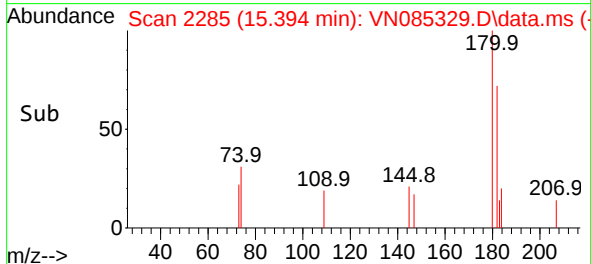
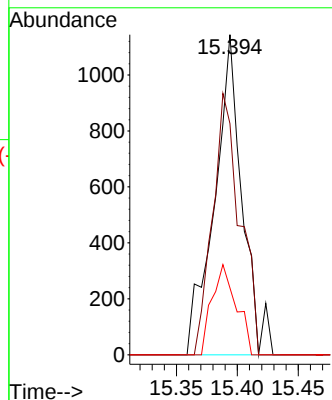
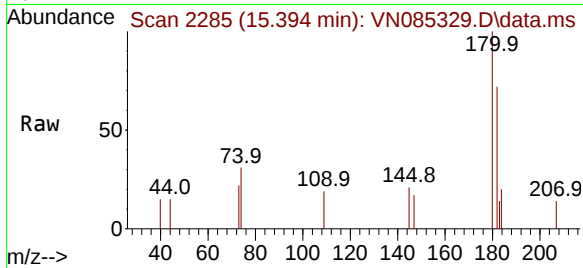




#93
 1,2,4-Trichlorobenzene
 Concen: 1.310 ug/l
 RT: 15.394 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN085329.D
 Acq: 27 Dec 2024 16:33

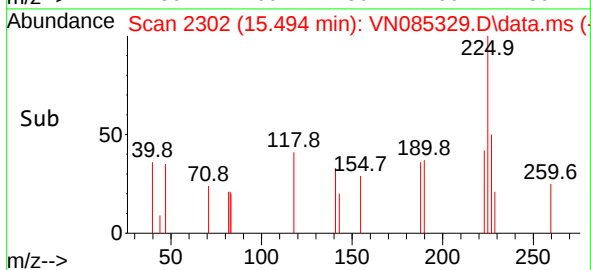
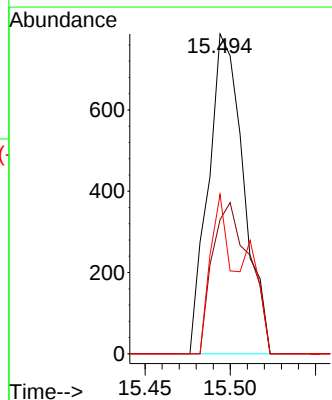
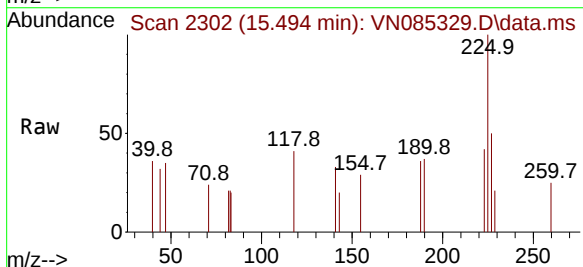
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1227WBL01

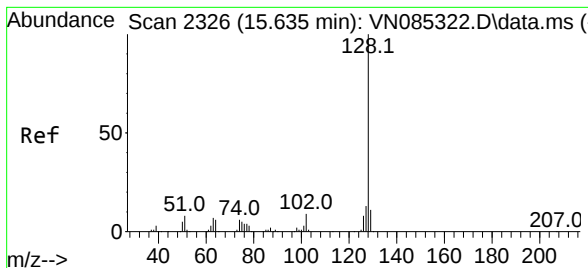
Tgt Ion:180 Resp: 1811
 Ion Ratio Lower Upper
 180 100
 182 81.0 47.2 141.6
 145 24.8 16.6 49.8



#94
 Hexachlorobutadiene
 Concen: 1.639 ug/l
 RT: 15.494 min Scan# 2302
 Delta R.T. 0.000 min
 Lab File: VN085329.D
 Acq: 27 Dec 2024 16:33

Tgt Ion:225 Resp: 1126
 Ion Ratio Lower Upper
 225 100
 223 50.2 31.6 94.7
 227 46.6 30.3 91.0





#95

Naphthalene

Concen: 1.606 ug/l

RT: 15.635 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN085329.D

Acq: 27 Dec 2024 16:33

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBL01

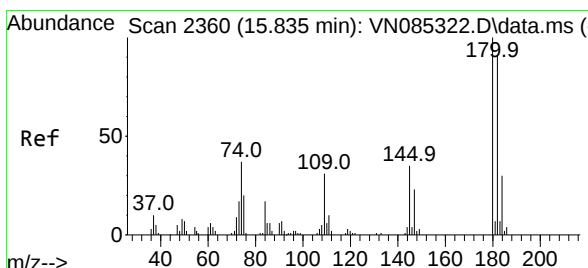
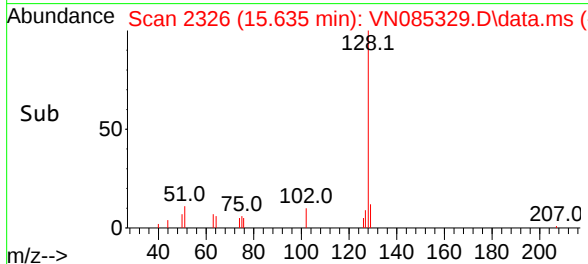
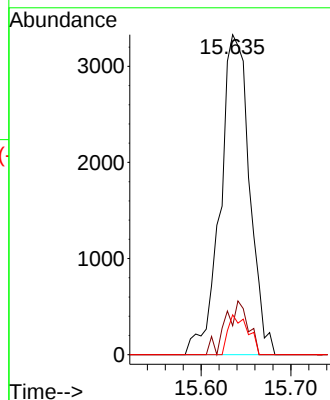
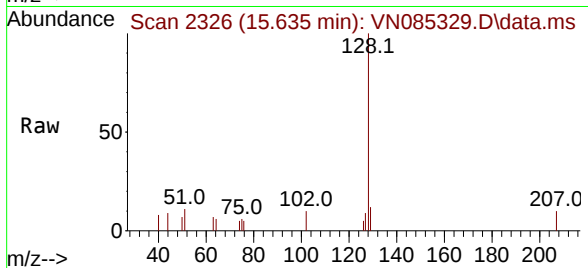
Tgt Ion:128 Resp: 7529

Ion Ratio Lower Upper

128 100

127 13.0 10.6 16.0

129 8.4 8.5 12.7#



#96

1,2,3-Trichlorobenzene

Concen: 1.521 ug/l

RT: 15.829 min Scan# 2359

Delta R.T. -0.006 min

Lab File: VN085329.D

Acq: 27 Dec 2024 16:33

Tgt Ion:180 Resp: 2101

Ion Ratio Lower Upper

180 100

182 82.1 46.8 140.4

145 22.4 17.2 51.6

