

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092524\
 Data File : VN084156.D
 Acq On : 25 Sep 2024 13:47
 Operator : JC\MD
 Sample : P4116-19RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE132D1-20240918

Quant Time: Sep 26 01:33:27 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 11 15:18:56 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	165195	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	289317	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	250760	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	104581	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	125482	50.376	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 100.760%		
35) Dibromofluoromethane	8.171	113	94635	51.094	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 102.180%		
50) Toluene-d8	10.565	98	352287	55.019	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 110.040%		
62) 4-Bromofluorobenzene	12.847	95	123678	46.817	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 93.640%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.130	85	592	0.309	ug/l #	43
3) Chloromethane	2.365	50	573	Below Cal		92
9) 1,1,2-Trichlorotrifluo...	4.359	101	2185	1.155	ug/l #	20
16) Acetone	4.430	43	384	0.385	ug/l #	45
19) Methyl tert-butyl Ether	5.806	73	1926	0.298	ug/l	94
22) Diisopropyl ether	6.671	45	1962	0.299	ug/l #	89
24) 1,1-Dichloroethane	6.571	63	1037	0.275	ug/l #	82
27) cis-1,2-Dichloroethene	7.488	96	1716	0.755	ug/l	86
30) Chloroform	7.971	83	4758	1.187	ug/l #	74
31) Cyclohexane	8.224	56	4286	1.191	ug/l #	11
36) 1,1-Dichloropropene	8.224	75	15160	5.438	ug/l #	50
38) Carbon Tetrachloride	8.224	117	18696	5.911	ug/l #	17
39) Methylcyclohexane	9.347	83	2019	0.636	ug/l #	1
42) 1,2-Dichloroethane	8.682	62	718	0.229	ug/l #	77
44) Trichloroethene	9.353	130	146951	75.627	ug/l	99
45) 1,2-Dichloropropane	9.353	63	570	0.281	ug/l #	1
49) 1,4-Dioxane	9.688	88	86	2.403	ug/l #	14
51) 4-Methyl-2-Pentanone	10.565	43	1822	0.730	ug/l #	1
60) Dibromochloromethane	11.100	129	4736	2.209	ug/l #	10
64) Tetrachloroethene	11.106	164	4573	2.742	ug/l	87
71) Bromoform	12.847	173	396	0.304	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	67932	32.192	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	67932	84.312	ug/l #	9

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

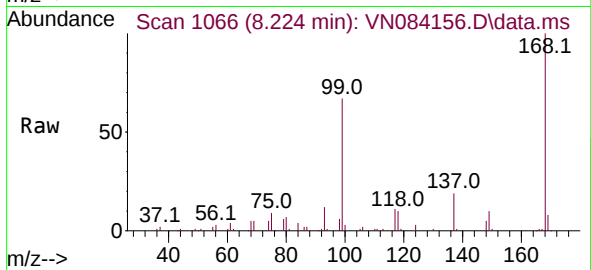
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 15:18:56 2024
Response via : Initial Calibration



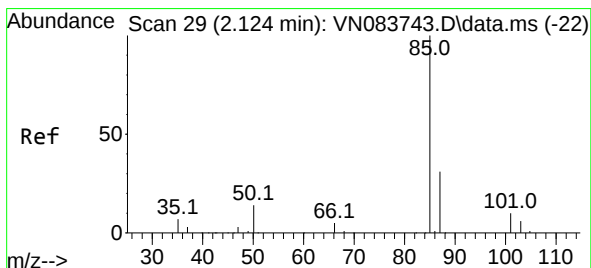
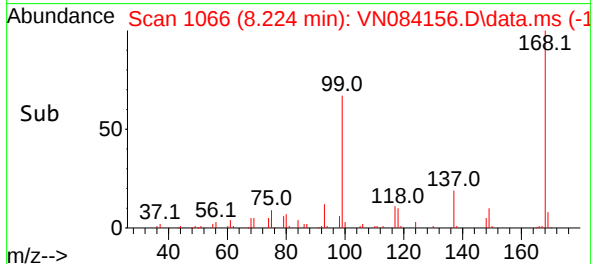
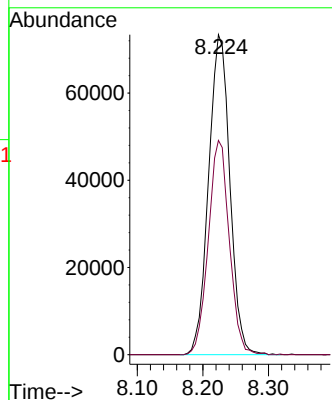


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN084156.D
Acq: 25 Sep 2024 13:47

Instrument :
MSVOA_N
ClientSampleId :
RE132D1-20240918

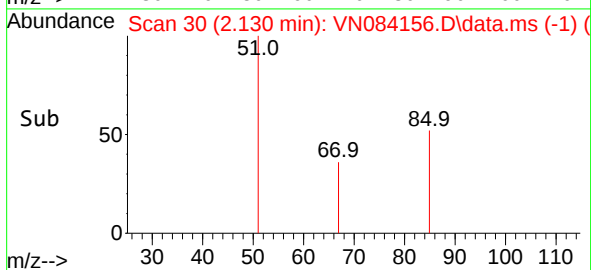
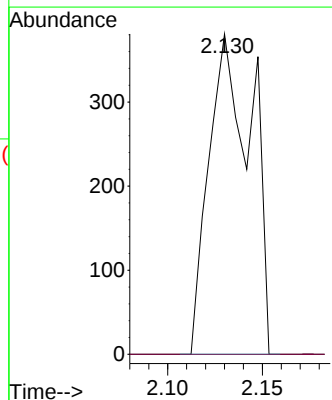
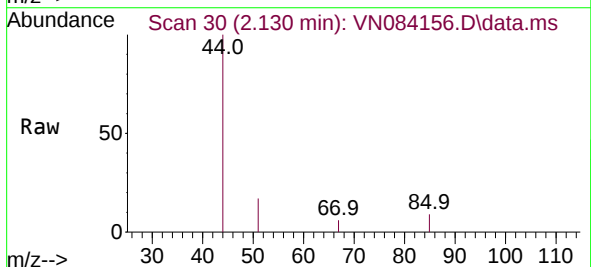


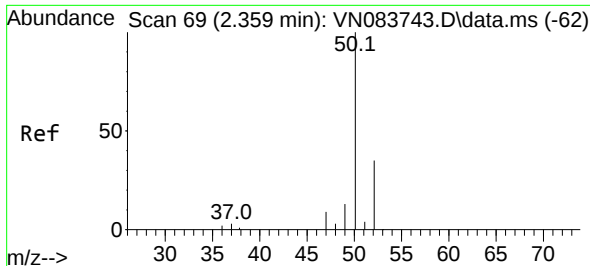
Tgt Ion:168 Resp: 165195
Ion Ratio Lower Upper
168 100
99 67.0 54.2 81.2



#2
Dichlorodifluoromethane
Concen: 0.309 ug/l
RT: 2.130 min Scan# 30
Delta R.T. 0.006 min
Lab File: VN084156.D
Acq: 25 Sep 2024 13:47

Tgt Ion: 85 Resp: 592
Ion Ratio Lower Upper
85 100
87 0.0 15.7 47.0#





#3

Chloromethane

Concen: Below Cal

RT: 2.365 min Scan# 70

Delta R.T. 0.006 min

Lab File: VN084156.D

Acq: 25 Sep 2024 13:47

Instrument :

MSVOA_N

ClientSampleId :

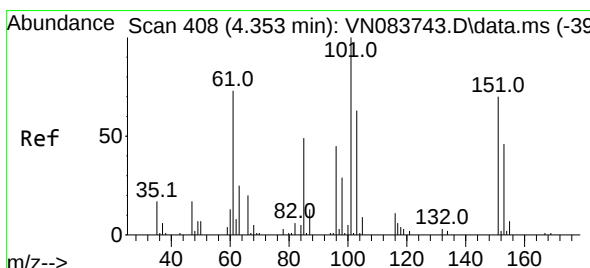
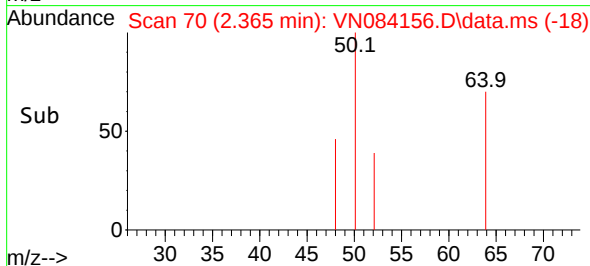
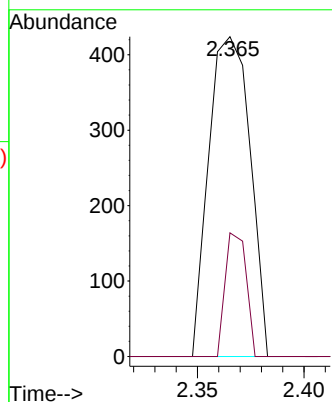
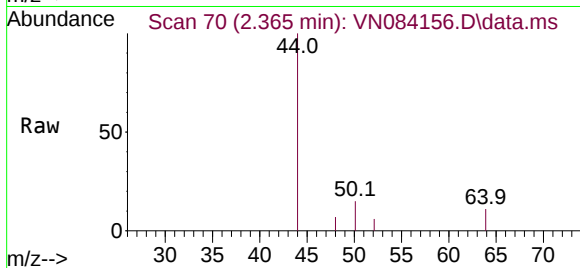
RE132D1-20240918

Tgt Ion: 50 Resp: 573

Ion Ratio Lower Upper

50 100

52 38.7 27.2 40.8



#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.155 ug/l

RT: 4.359 min Scan# 409

Delta R.T. 0.006 min

Lab File: VN084156.D

Acq: 25 Sep 2024 13:47

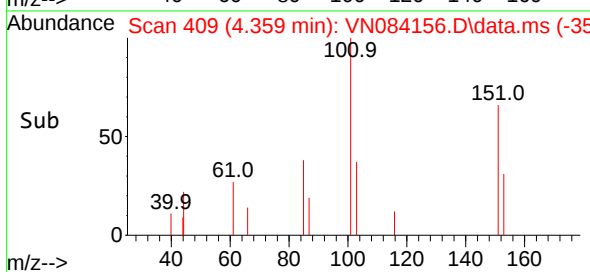
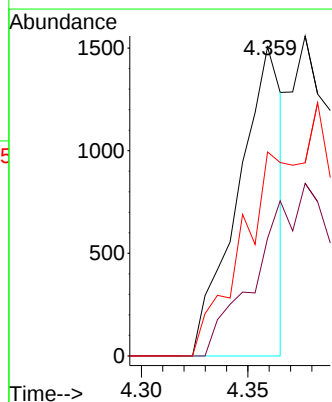
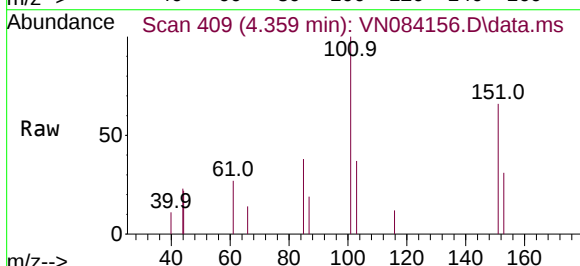
Tgt Ion: 101 Resp: 2185

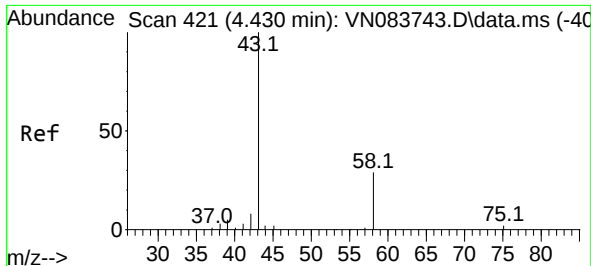
Ion Ratio Lower Upper

101 100

85 0.0 36.2 54.4#

151 0.0 57.7 86.5#





#16

Acetone

Concen: 0.385 ug/l

RT: 4.430 min Scan# 41

Delta R.T. -0.000 min

Lab File: VN084156.D

Acq: 25 Sep 2024 13:47

Instrument :

MSVOA_N

ClientSampleId :

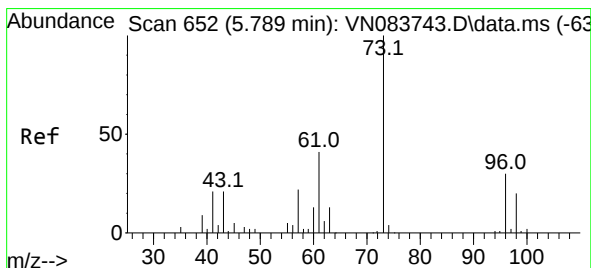
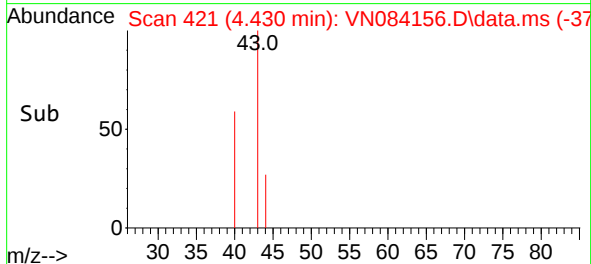
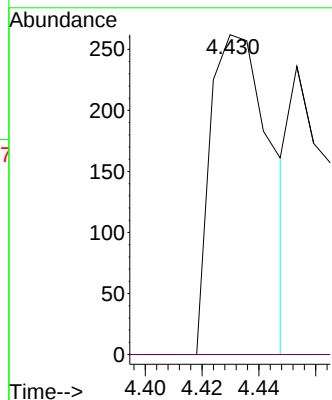
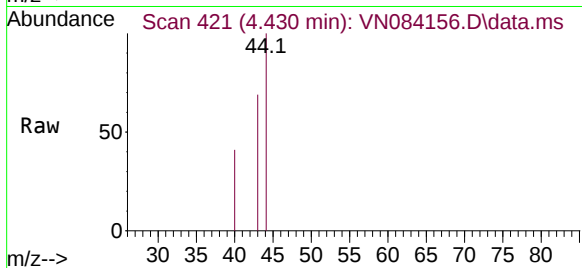
RE132D1-20240918

Tgt Ion: 43 Resp: 384

Ion Ratio Lower Upper

43 100

58 0.0 23.7 35.5#



#19

Methyl tert-butyl Ether

Concen: 0.298 ug/l

RT: 5.806 min Scan# 655

Delta R.T. 0.018 min

Lab File: VN084156.D

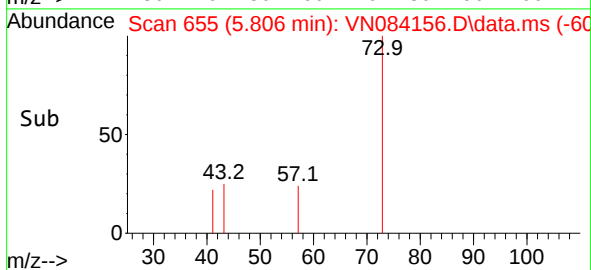
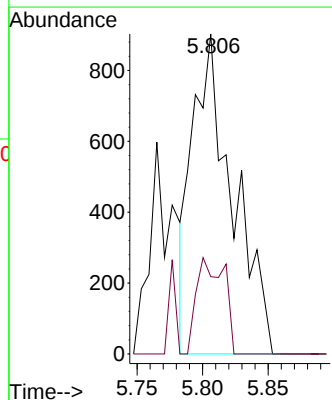
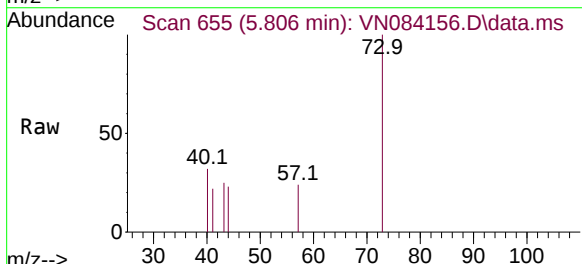
Acq: 25 Sep 2024 13:47

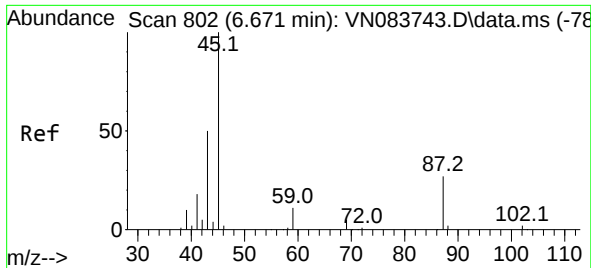
Tgt Ion: 73 Resp: 1926

Ion Ratio Lower Upper

73 100

57 24.1 17.0 25.6

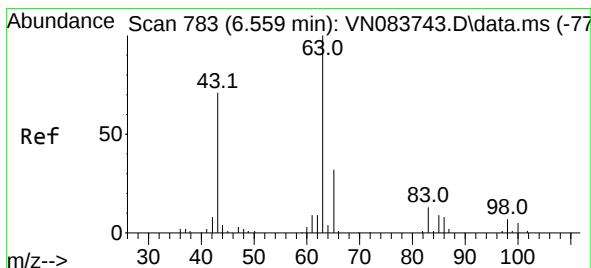
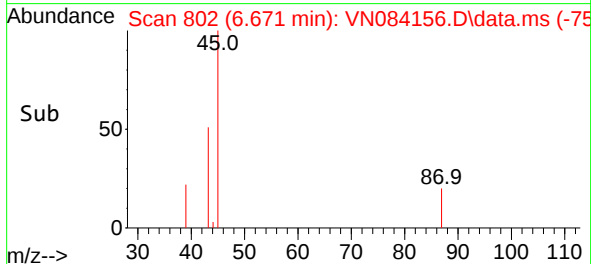
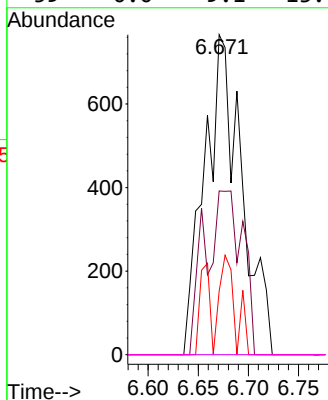
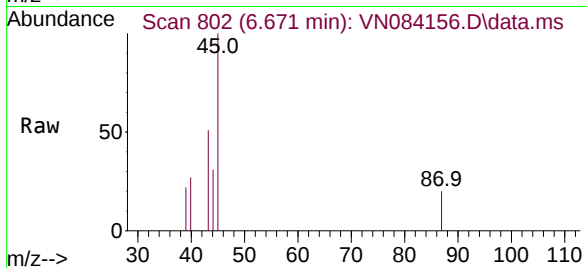




#22
Diisopropyl ether
Concen: 0.299 ug/l
RT: 6.671 min Scan# 802
Delta R.T. -0.000 min
Lab File: VN084156.D
Acq: 25 Sep 2024 13:47

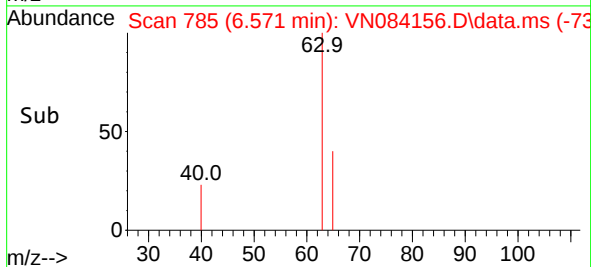
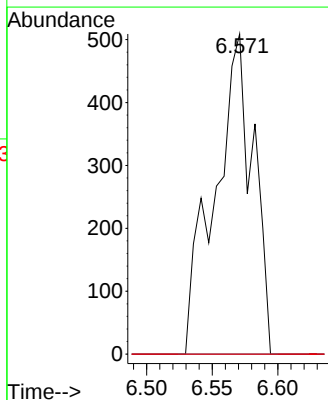
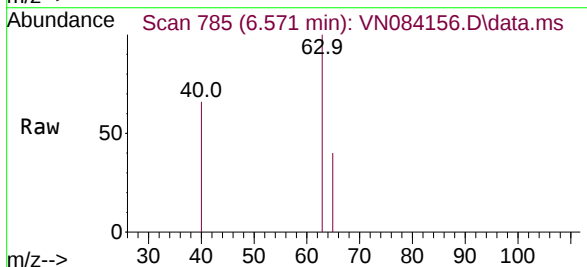
Instrument :
MSVOA_N
ClientSampleId :
RE132D1-20240918

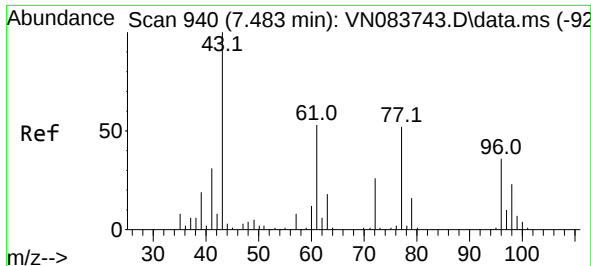
Tgt Ion:	45	Resp:	1962
Ion	Ratio	Lower	Upper
45	100		
43	51.2	43.4	65.0
87	19.8	22.6	33.8#
59	0.0	9.1	13.7#



#24
1,1-Dichloroethane
Concen: 0.275 ug/l
RT: 6.571 min Scan# 785
Delta R.T. 0.012 min
Lab File: VN084156.D
Acq: 25 Sep 2024 13:47

Tgt Ion:	63	Resp:	1037
Ion	Ratio	Lower	Upper
63	100		
98	0.0	3.5	10.4#
100	0.0	2.5	7.5#





#27

cis-1,2-Dichloroethene

Concen: 0.755 ug/l

RT: 7.488 min Scan# 94

Delta R.T. 0.006 min

Lab File: VN084156.D

Acq: 25 Sep 2024 13:47

Instrument :

MSVOA_N

ClientSampleId :

RE132D1-20240918

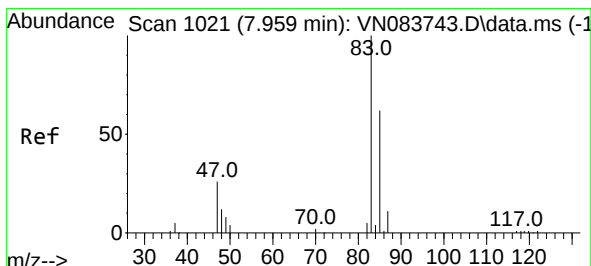
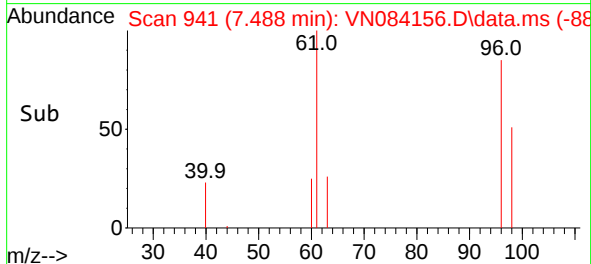
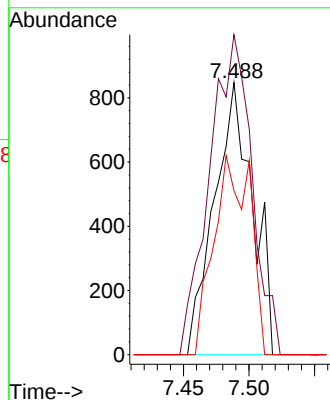
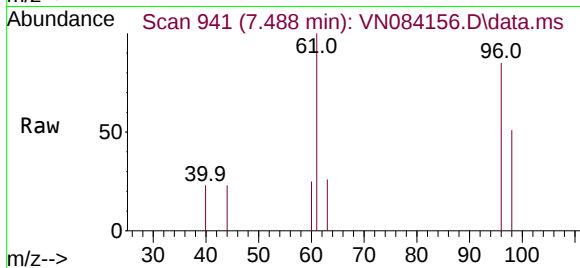
Tgt Ion: 96 Resp: 1716

Ion Ratio Lower Upper

96 100

61 130.6 0.0 306.2

98 69.9 0.0 128.6



#30

Chloroform

Concen: 1.187 ug/l

RT: 7.971 min Scan# 1023

Delta R.T. 0.012 min

Lab File: VN084156.D

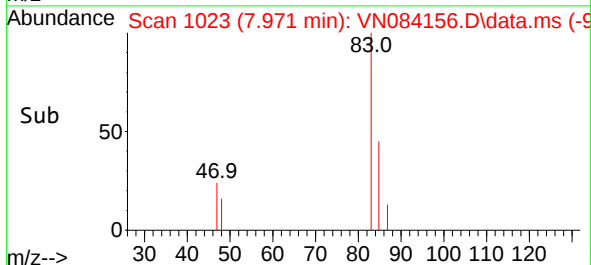
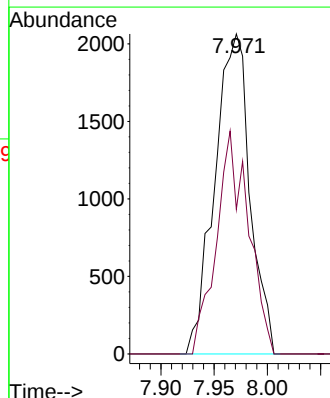
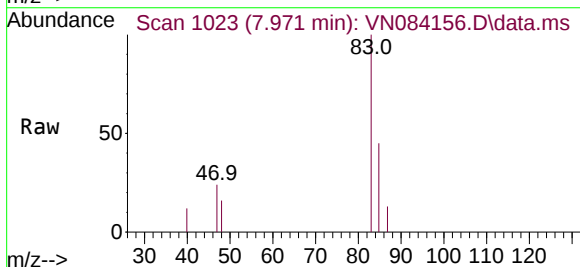
Acq: 25 Sep 2024 13:47

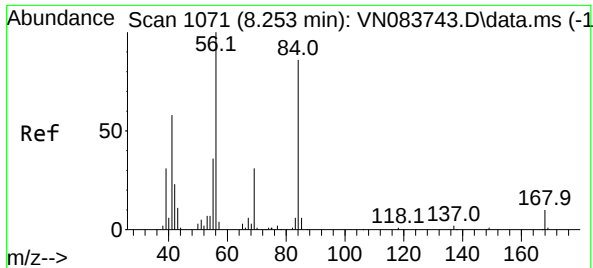
Tgt Ion: 83 Resp: 4758

Ion Ratio Lower Upper

83 100

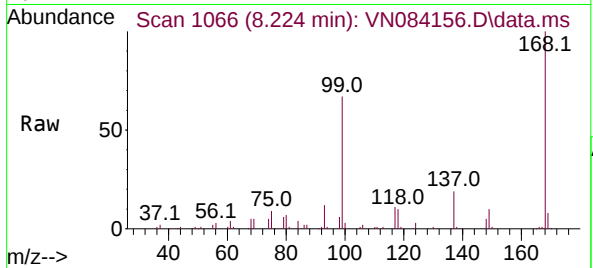
85 45.2 52.8 79.2#



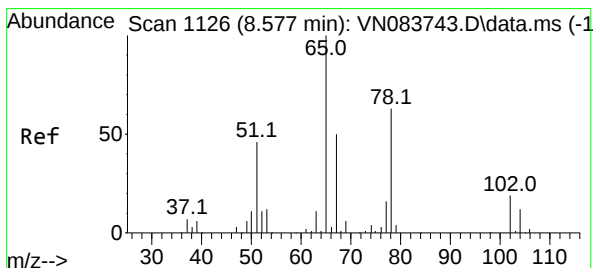
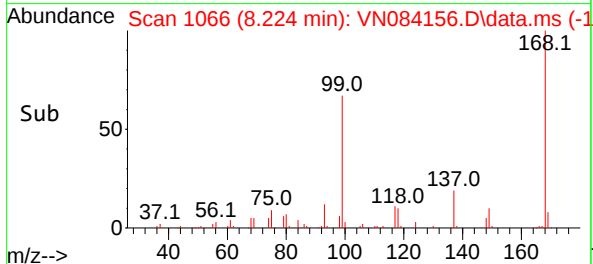
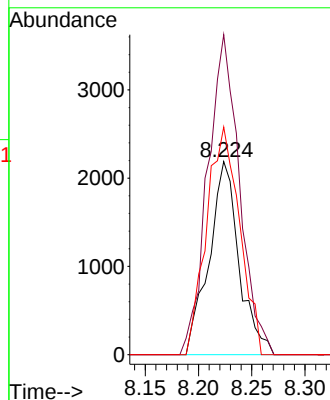


#31
Cyclohexane
Concen: 1.191 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.029 min
Lab File: VN084156.D
Acq: 25 Sep 2024 13:47

Instrument :
MSVOA_N
ClientSampleId :
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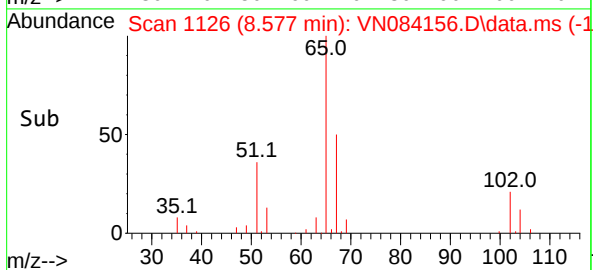
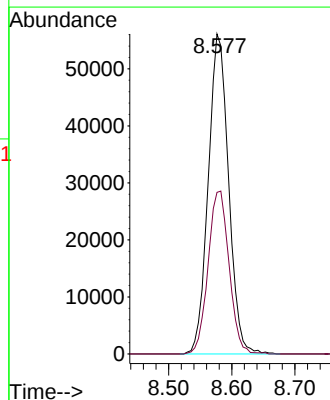
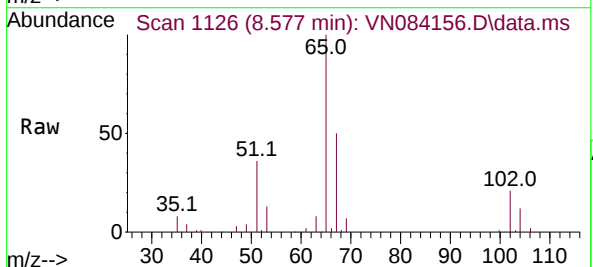


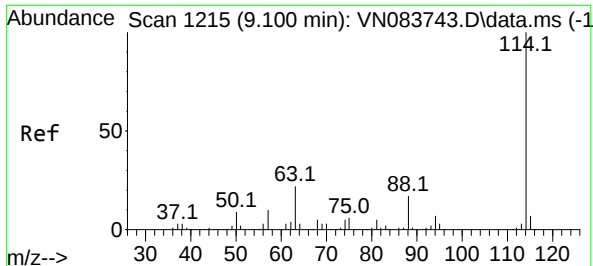
Tgt Ion: 56 Resp: 4286
Ion Ratio Lower Upper
56 100
69 165.7 26.9 40.3#
84 117.9 69.2 103.8#



#33
1,2-Dichloroethane-d4
Concen: 50.376 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN084156.D
Acq: 25 Sep 2024 13:47

Tgt Ion: 65 Resp: 125482
Ion Ratio Lower Upper
65 100
67 52.6 0.0 100.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN084156.D

Acq: 25 Sep 2024 13:47

Instrument :

MSVOA_N

ClientSampleId :

RE132D1-20240918

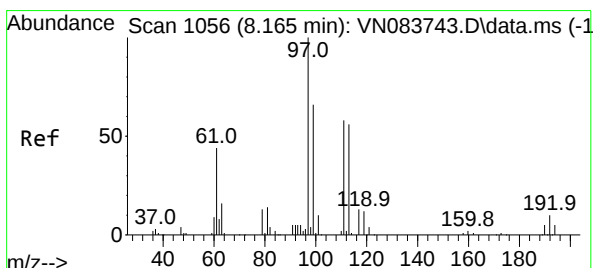
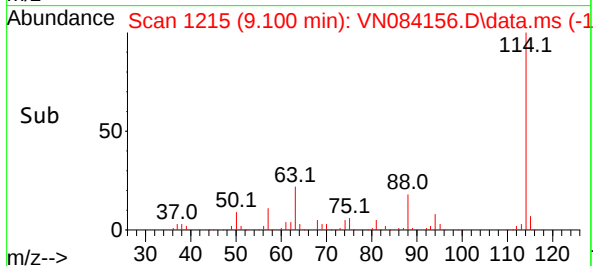
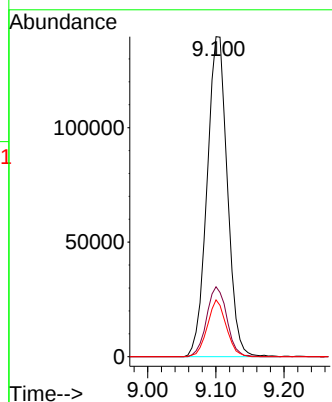
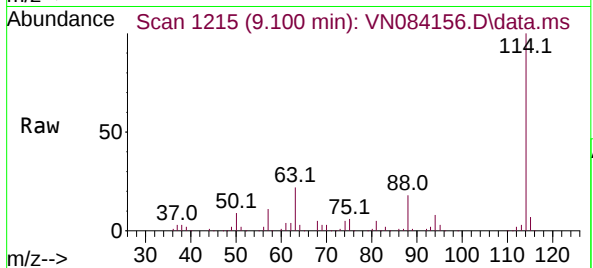
Tgt Ion:114 Resp: 289317

Ion Ratio Lower Upper

114 100

63 21.9 0.0 43.4

88 17.7 0.0 32.6



#35

Dibromofluoromethane

Concen: 51.094 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. 0.006 min

Lab File: VN084156.D

Acq: 25 Sep 2024 13:47

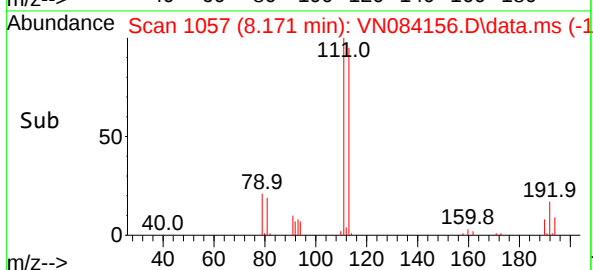
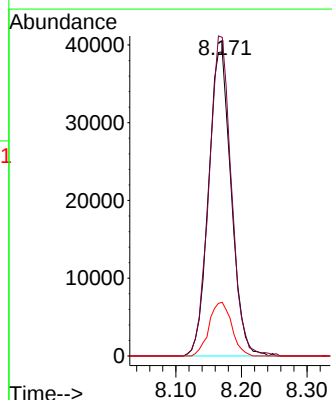
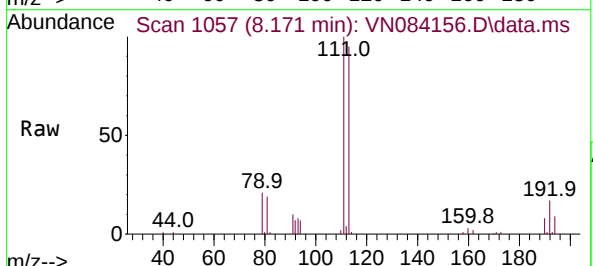
Tgt Ion:113 Resp: 94635

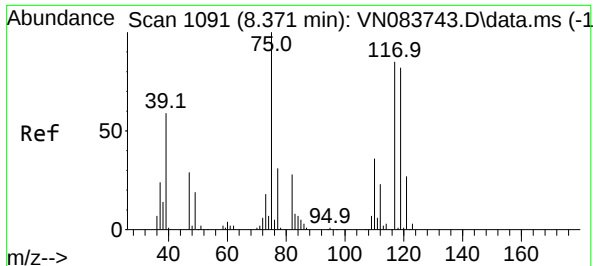
Ion Ratio Lower Upper

113 100

111 103.3 82.6 124.0

192 17.4 14.3 21.5





#36

1,1-Dichloropropene

Concen: 5.438 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.147 min

Lab File: VN084156.D

Acq: 25 Sep 2024 13:47

Instrument :

MSVOA_N

ClientSampleId :

RE132D1-20240918

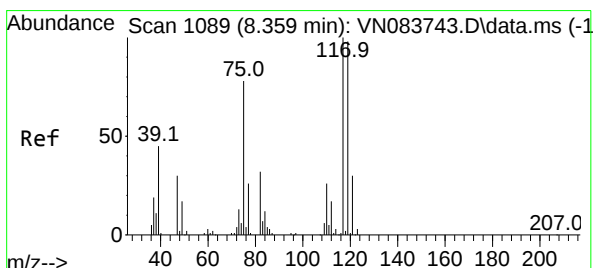
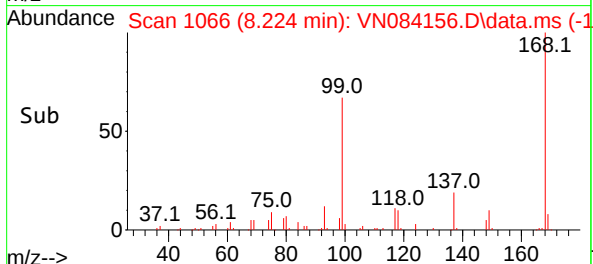
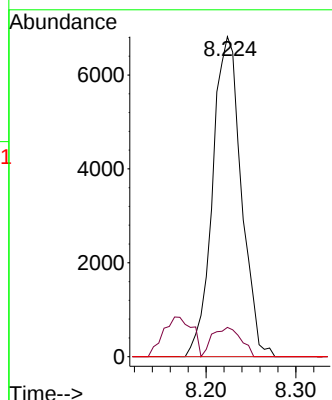
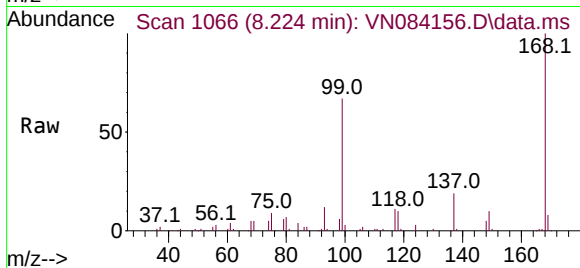
Tgt Ion: 75 Resp: 15160

Ion Ratio Lower Upper

75 100

110 9.1 16.7 50.1#

77 0.0 25.2 37.8#



#38

Carbon Tetrachloride

Concen: 5.911 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

Lab File: VN084156.D

Acq: 25 Sep 2024 13:47

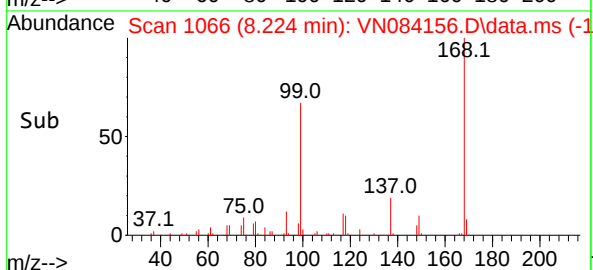
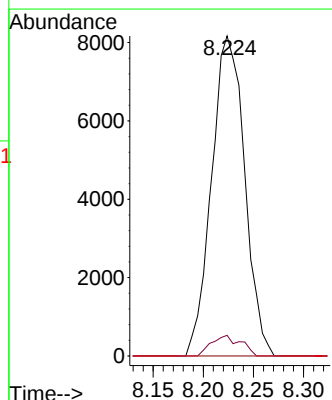
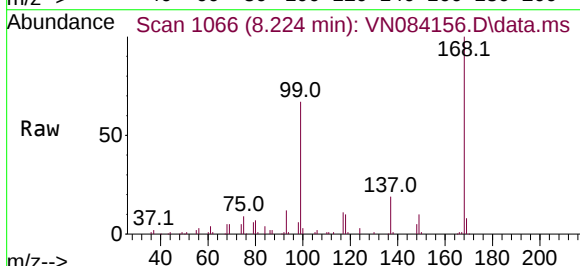
Tgt Ion: 117 Resp: 18696

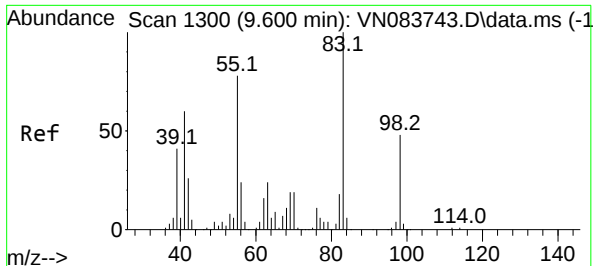
Ion Ratio Lower Upper

117 100

119 6.5 76.1 114.1#

121 0.0 24.1 36.1#





#39

Methylcyclohexane

Concen: 0.636 ug/l

RT: 9.347 min Scan# 1125

Delta R.T. -0.253 min

Lab File: VN084156.D

Acq: 25 Sep 2024 13:47

Instrument :

MSVOA_N

ClientSampleId :

RE132D1-20240918

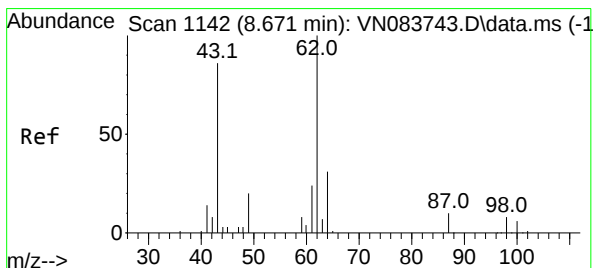
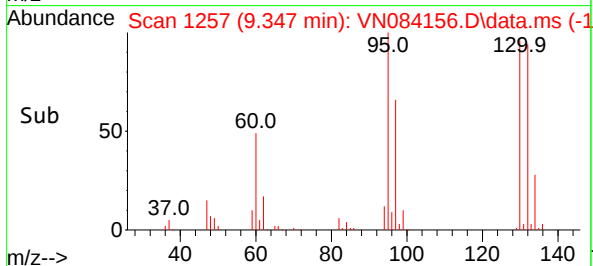
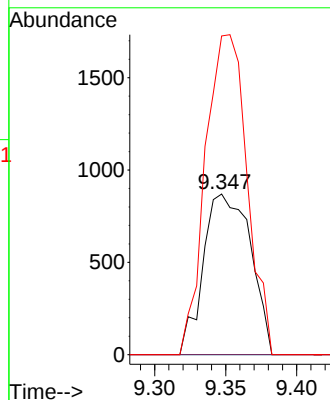
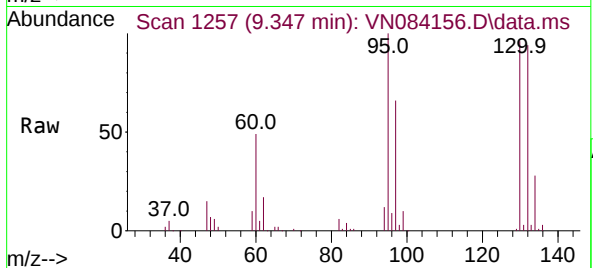
Tgt Ion: 83 Resp: 2019

Ion Ratio Lower Upper

83 100

55 0.0 62.2 93.4#

98 198.4 37.6 56.4#



#42

1,2-Dichloroethane

Concen: 0.229 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. 0.012 min

Lab File: VN084156.D

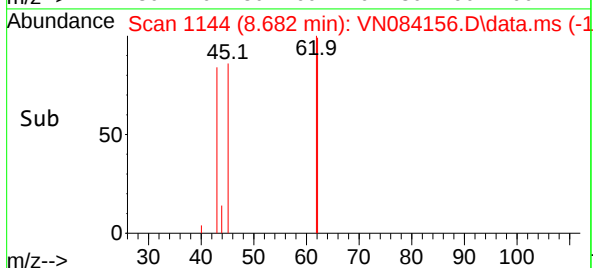
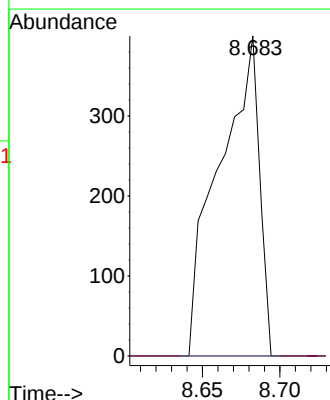
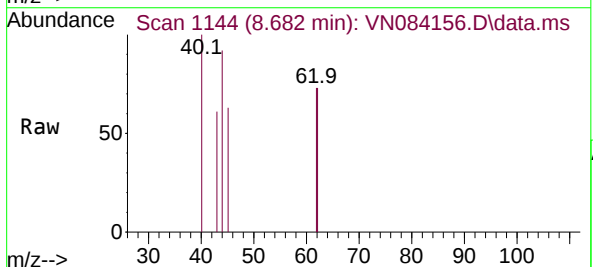
Acq: 25 Sep 2024 13:47

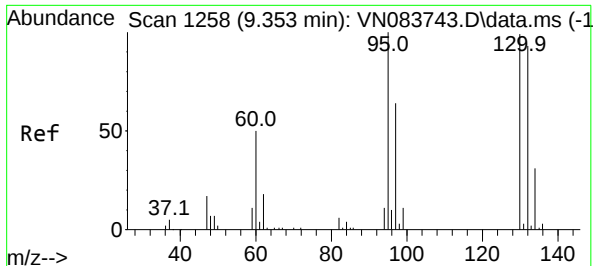
Tgt Ion: 62 Resp: 718

Ion Ratio Lower Upper

62 100

98 0.0 0.0 16.6





#44

Trichloroethene

Concen: 75.627 ug/l

RT: 9.353 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN084156.D

Acq: 25 Sep 2024 13:47

Instrument :

MSVOA_N

ClientSampleId :

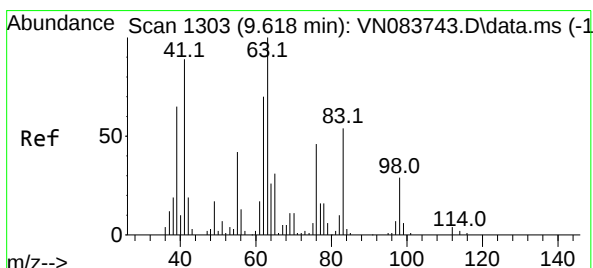
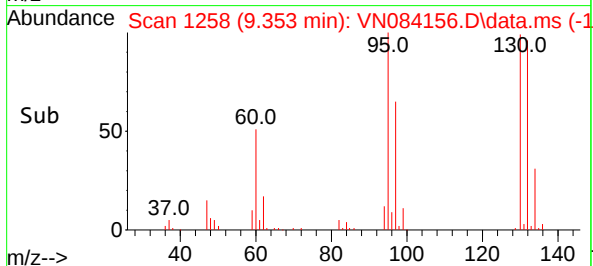
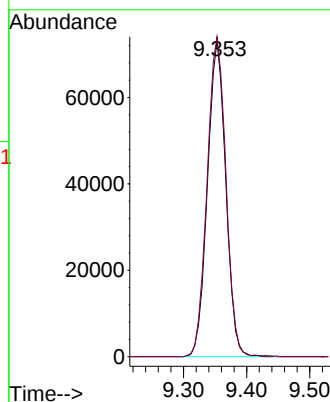
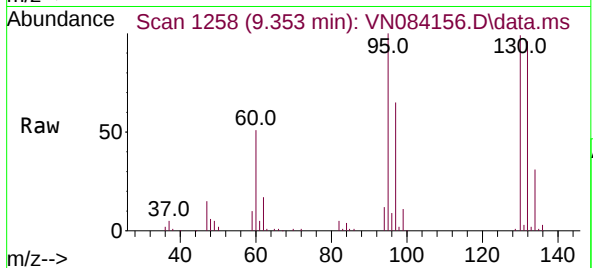
RE132D1-20240918

Tgt Ion:130 Resp: 146951

Ion Ratio Lower Upper

130 100

95 101.2 0.0 200.4



#45

1,2-Dichloropropane

Concen: 0.281 ug/l

RT: 9.353 min Scan# 1258

Delta R.T. -0.265 min

Lab File: VN084156.D

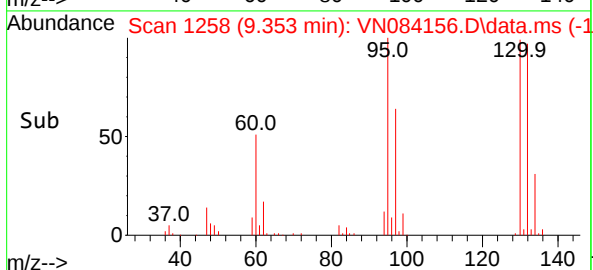
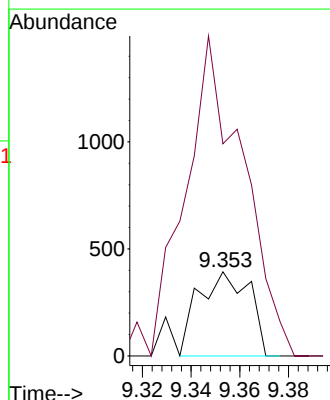
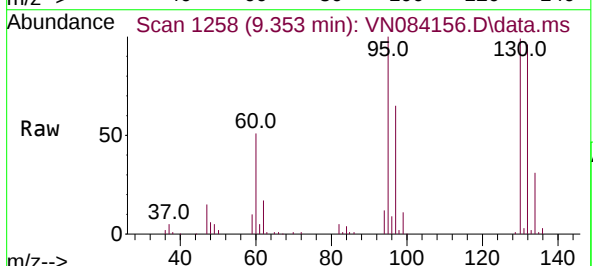
Acq: 25 Sep 2024 13:47

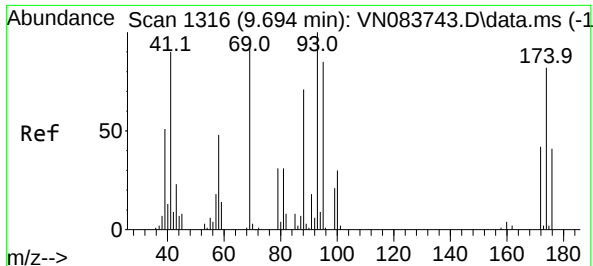
Tgt Ion: 63 Resp: 570

Ion Ratio Lower Upper

63 100

65 212.0 25.9 38.9#

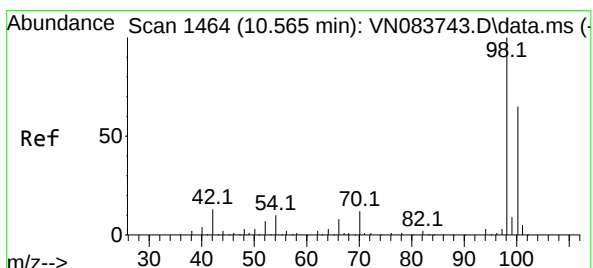
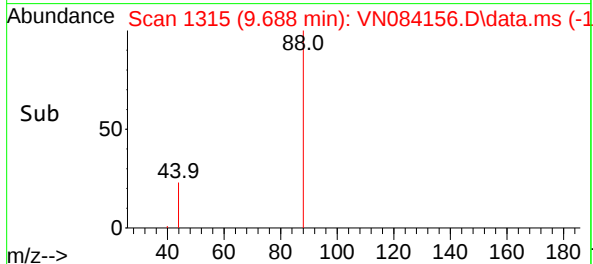
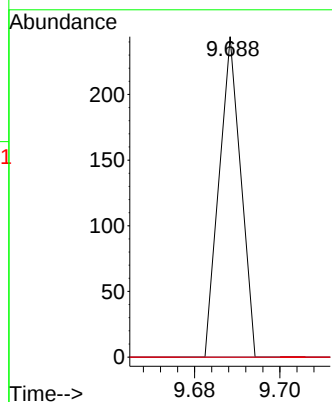
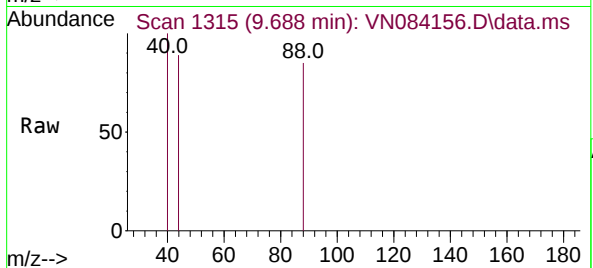




#49
1,4-Dioxane
Concen: 2.403 ug/l
RT: 9.688 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN084156.D
Acq: 25 Sep 2024 13:47

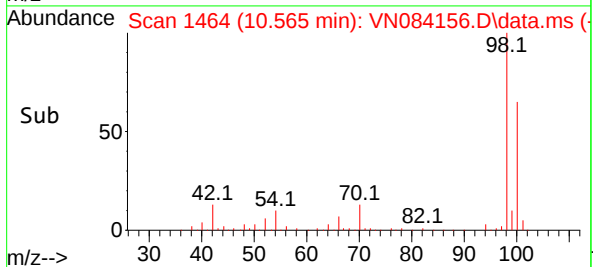
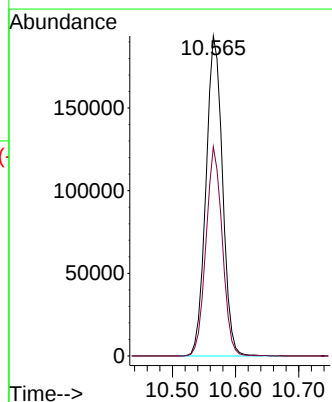
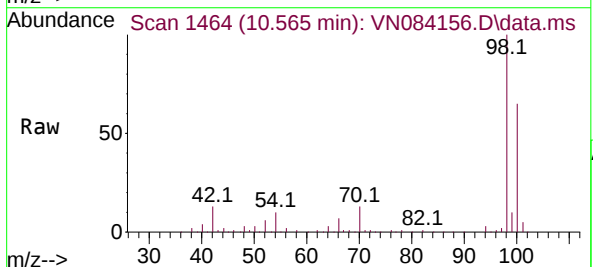
Instrument :
MSVOA_N
ClientSampleId :
RE132D1-20240918

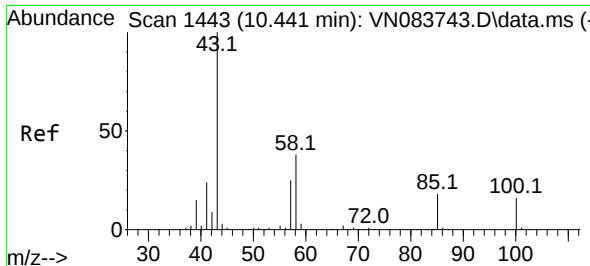
Tgt Ion: 88 Resp: 86
Ion Ratio Lower Upper
88 100
43 0.0 0.0 0.0
58 0.0 57.1 85.7#



#50
Toluene-d8
Concen: 55.019 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN084156.D
Acq: 25 Sep 2024 13:47

Tgt Ion: 98 Resp: 352287
Ion Ratio Lower Upper
98 100
100 64.3 52.0 78.0





#51

4-Methyl-2-Pentanone

Concen: 0.730 ug/l

RT: 10.565 min Scan# 14

Delta R.T. 0.123 min

Lab File: VN084156.D

Acq: 25 Sep 2024 13:47

Instrument :

MSVOA_N

ClientSampleId :

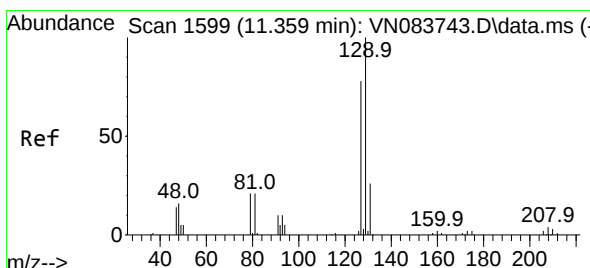
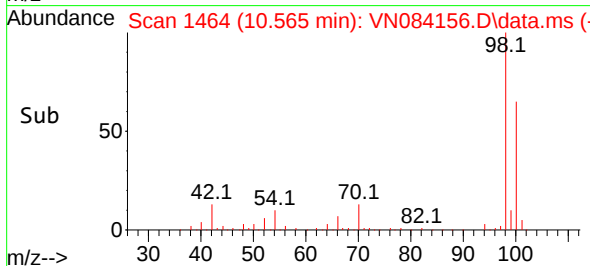
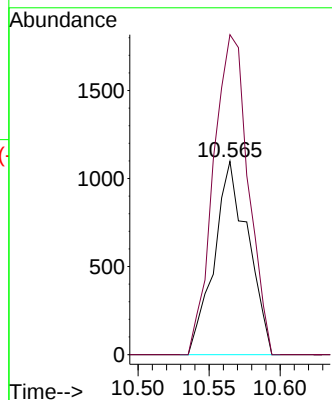
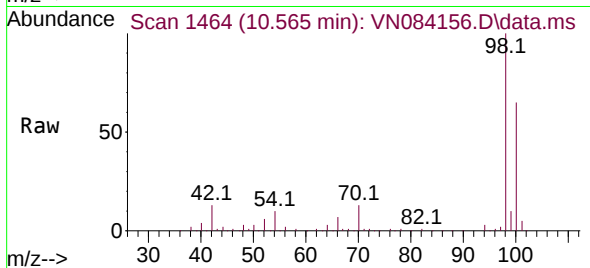
RE132D1-20240918

Tgt Ion: 43 Resp: 1822

Ion Ratio Lower Upper

43 100

58 170.5 31.6 47.4#



#60

Dibromochloromethane

Concen: 2.209 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. -0.259 min

Lab File: VN084156.D

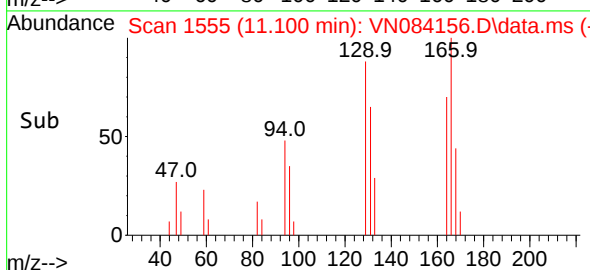
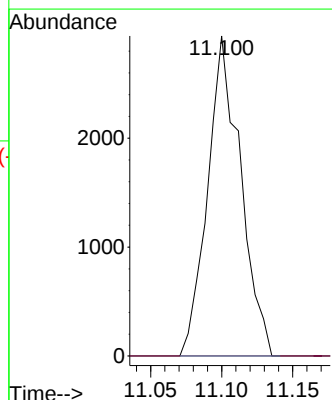
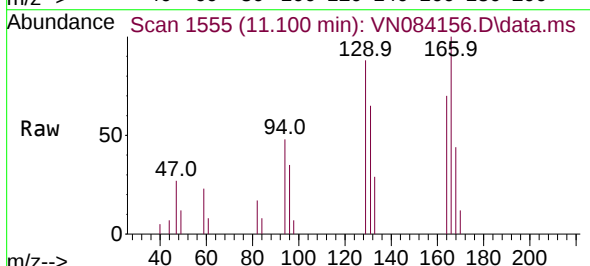
Acq: 25 Sep 2024 13:47

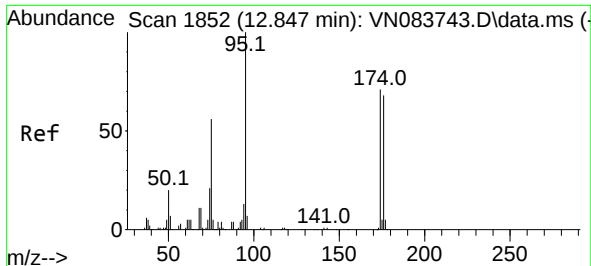
Tgt Ion: 129 Resp: 4736

Ion Ratio Lower Upper

129 100

127 0.0 39.0 116.9#

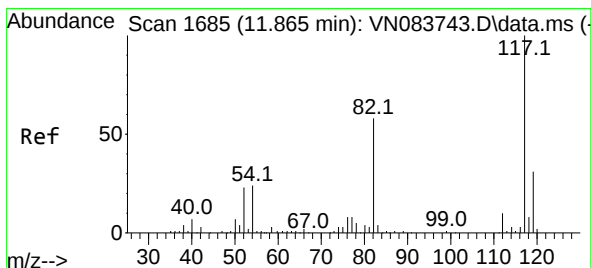
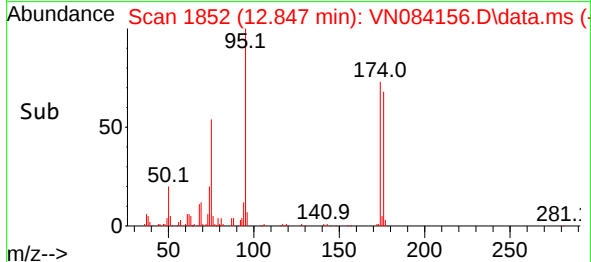
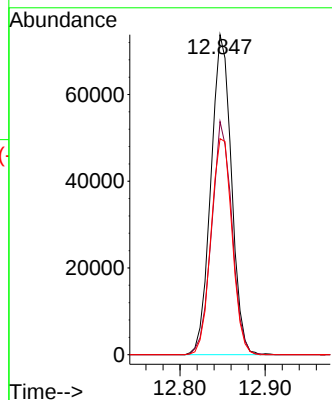
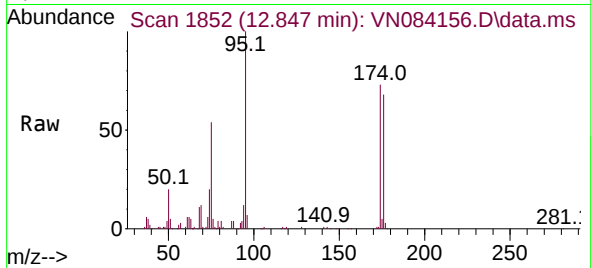




#62
4-Bromofluorobenzene
Concen: 46.817 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN084156.D
Acq: 25 Sep 2024 13:47

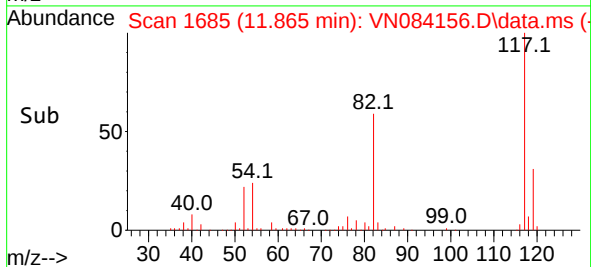
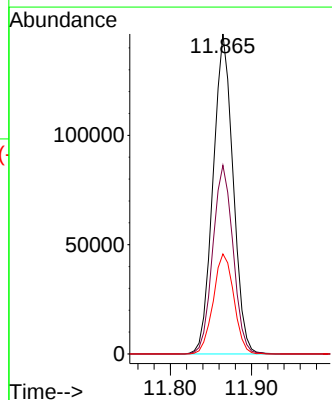
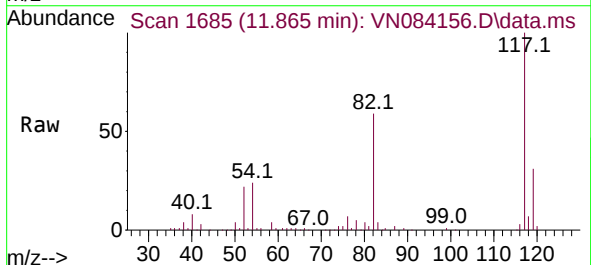
Instrument :
MSVOA_N
ClientSampleId :
RE132D1-20240918

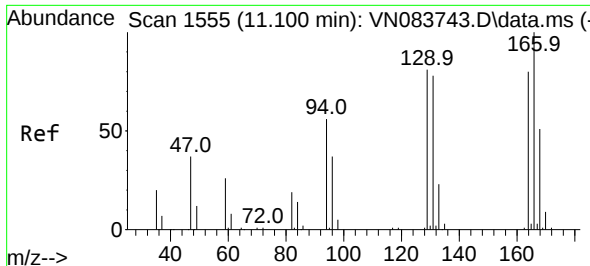
Tgt Ion: 95 Resp: 123678
Ion Ratio Lower Upper
95 100
174 71.8 0.0 139.8
176 69.3 0.0 131.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN084156.D
Acq: 25 Sep 2024 13:47

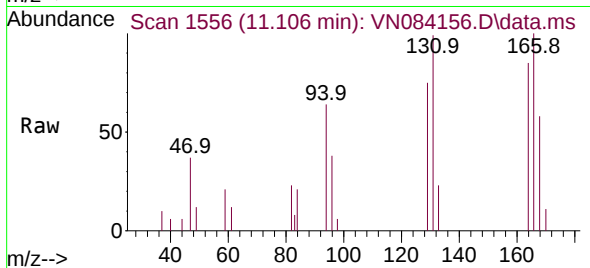
Tgt Ion: 117 Resp: 250760
Ion Ratio Lower Upper
117 100
82 59.0 47.4 71.0
119 31.2 26.3 39.5



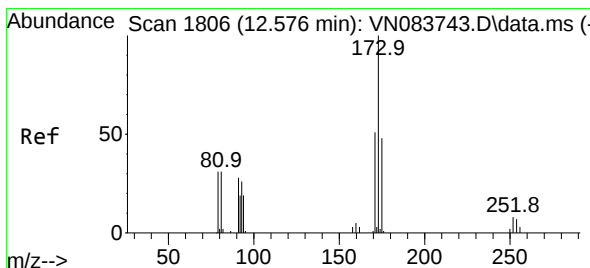
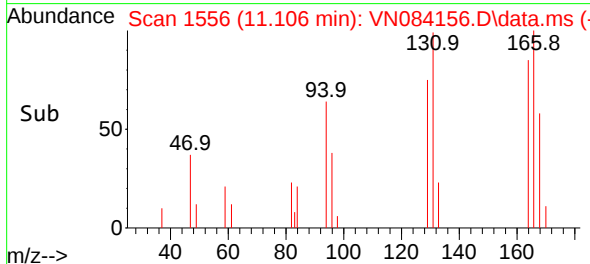
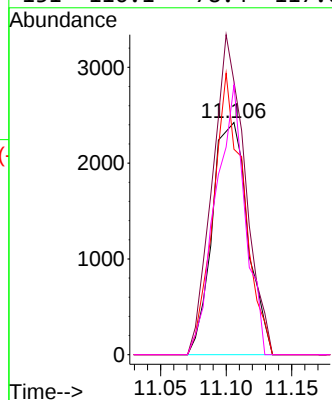


#64
Tetrachloroethene
Concen: 2.742 ug/l
RT: 11.106 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN084156.D
Acq: 25 Sep 2024 13:47

Instrument :
MSVOA_N
ClientSampleId :
RE132D1-20240918

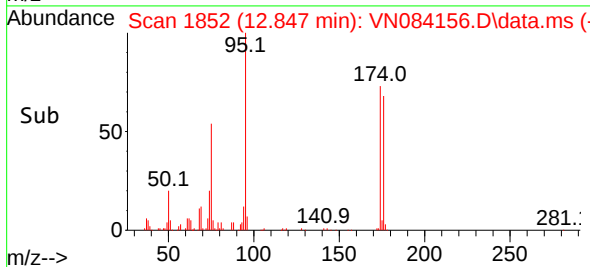
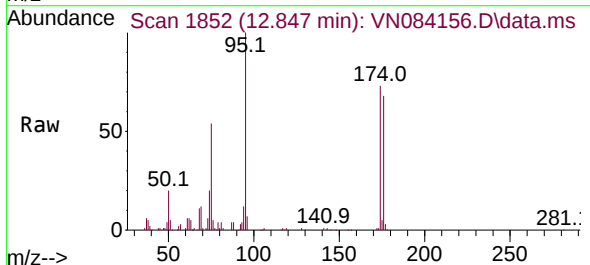
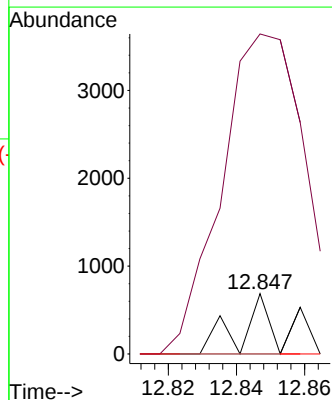


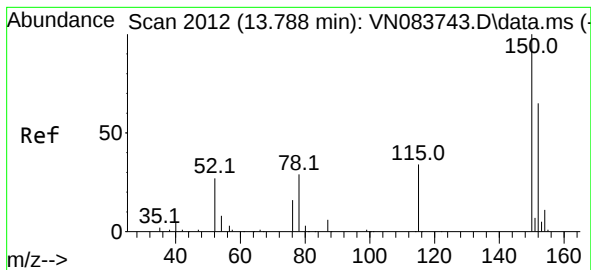
Tgt Ion:164 Resp: 4573
Ion Ratio Lower Upper
164 100
166 117.7 103.7 155.5
129 88.5 79.9 119.9
131 116.1 78.4 117.6



#71
Bromoform
Concen: 0.304 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.271 min
Lab File: VN084156.D
Acq: 25 Sep 2024 13:47

Tgt Ion:173 Resp: 396
Ion Ratio Lower Upper
173 100
175 1206.1 24.1 72.2#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.000 min

Lab File: VN084156.D

Acq: 25 Sep 2024 13:47

Instrument :

MSVOA_N

ClientSampleId :

RE132D1-20240918

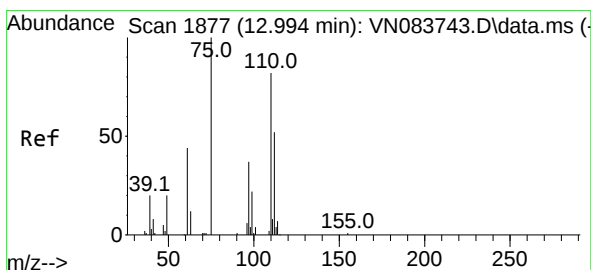
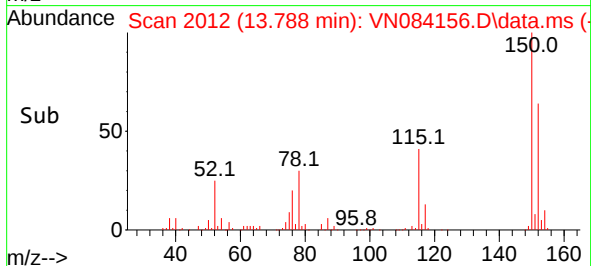
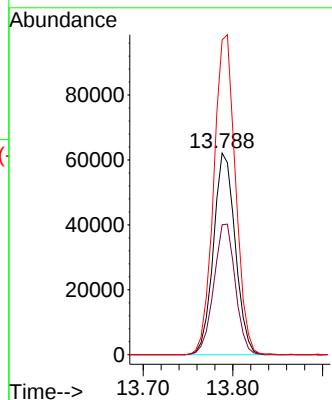
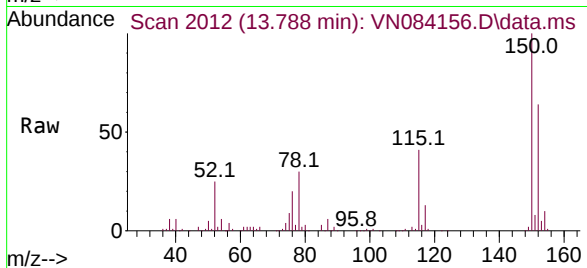
Tgt Ion:152 Resp: 104581

Ion Ratio Lower Upper

152 100

115 64.0 32.2 96.6

150 158.5 0.0 348.6



#76

1,2,3-Trichloropropane

Concen: 32.192 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN084156.D

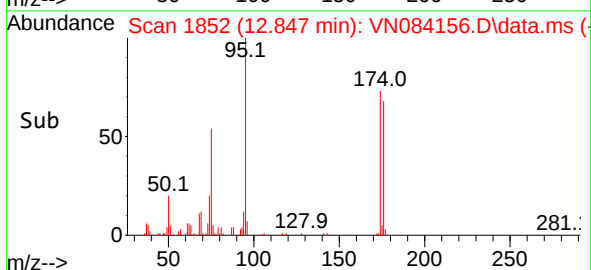
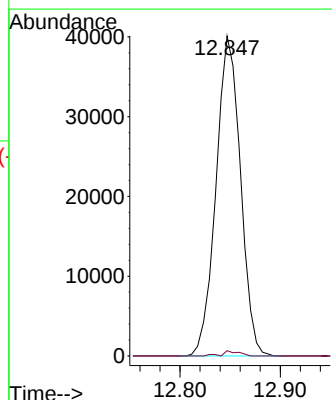
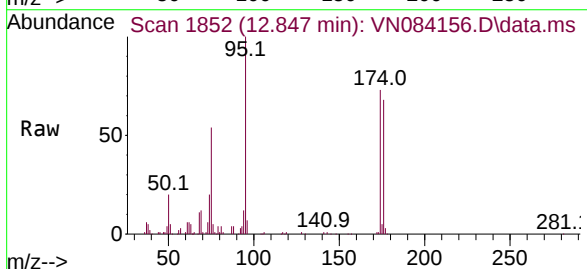
Acq: 25 Sep 2024 13:47

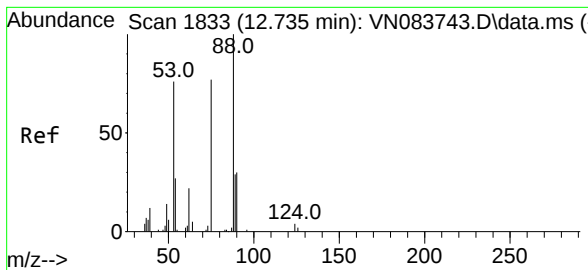
Tgt Ion: 75 Resp: 67932

Ion Ratio Lower Upper

75 100

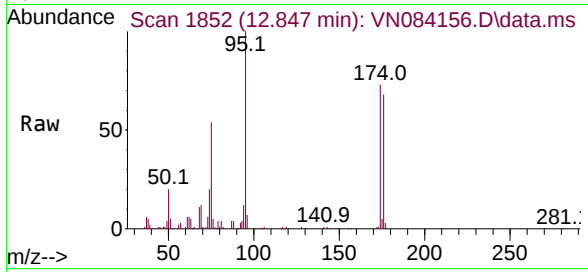
77 1.1 95.2 285.6#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 84.312 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN084156.D
 Acq: 25 Sep 2024 13:47

Instrument :
 MSVOA_N
 ClientSampleId :
 RE132D1-20240918



Tgt Ion: 75 Resp: 67932
 Ion Ratio Lower Upper
 75 100
 53 0.0 81.2 121.8#
 89 0.0 35.7 53.5#

