

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
 Data File : VN085856.D
 Acq On : 25 Feb 2025 14:49
 Operator : JC\MD
 Sample : IBLK
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

Quant Time: Feb 25 23:38:08 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

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

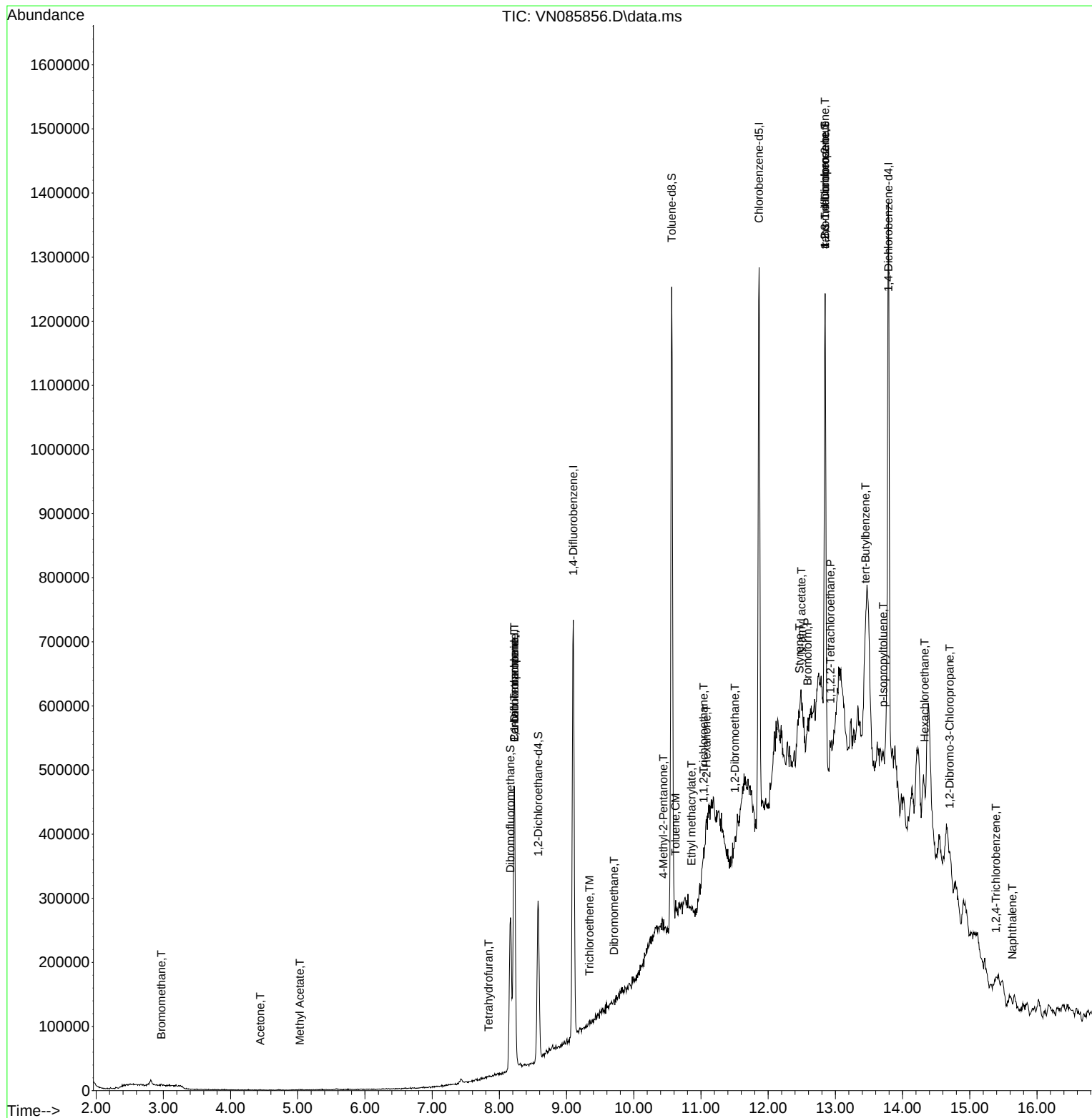
Internal Standards						
1) Pentafluorobenzene	8.224	168	329988	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	583305	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	530333	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	237734	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	203067	47.466	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	94.940%		
35) Dibromofluoromethane	8.165	113	181817	47.635	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	95.280%		
50) Toluene-d8	10.565	98	717859	51.693	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	103.380%		
62) 4-Bromofluorobenzene	12.847	95	270607	59.143	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	118.280%		
Target Compounds						Qvalue
5) Bromomethane	2.971	94	1485	0.487	ug/l #	50
16) Acetone	4.441	43	776	0.573	ug/l #	40
18) Methyl Acetate	5.030	43	1223	0.263	ug/l #	55
29) Tetrahydrofuran	7.841	42	311	0.242	ug/l #	29
36) 1,1-Dichloropropene	8.224	75	25695	4.757	ug/l #	51
38) Carbon Tetrachloride	8.224	117	34743	5.413	ug/l #	17
43) Isopropyl Acetate	8.700	43	1120	Below Cal	#	53
44) Trichloroethene	9.341	130	888	0.209	ug/l	87
46) Dibromomethane	9.706	93	933	0.317	ug/l #	55
51) 4-Methyl-2-Pentanone	10.441	43	1572	0.367	ug/l	93
52) Toluene	10.623	92	3960	0.390	ug/l	78
55) 1,1,2-Trichloroethane	11.041	97	3761	0.932	ug/l #	56
56) Ethyl methacrylate	10.859	69	1527	0.754	ug/l #	78
58) 2-Chloroethyl Vinyl ether	10.153	63	379	Below Cal	#	1
59) 2-Hexanone	11.082	43	1503	0.510	ug/l	99
61) 1,2-Dibromoethane	11.506	107	1341	0.352	ug/l	89
70) Styrene	12.465	104	14547	1.822	ug/l #	32
71) Bromoform	12.588	173	4861	1.498	ug/l #	44
74) N-amyl acetate	12.494	43	7306	1.272	ug/l #	76
75) 1,1,2,2-Tetrachloroethane	12.929	83	2713	0.484	ug/l #	52
76) 1,2,3-Trichloropropane	12.847	75	121817	23.068	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	121817	67.306	ug/l #	14
83) tert-Butylbenzene	13.447	119	3337	0.299	ug/l #	1
86) p-Isopropyltoluene	13.711	119	1515	0.738	ug/l #	43
90) Hexachloroethane	14.329	117	1590	0.533	ug/l	85
92) 1,2-Dibromo-3-Chloropr...	14.700	75	611	0.594	ug/l #	64
93) 1,2,4-Trichlorobenzene	15.388	180	1306	0.346	ug/l #	80
95) Naphthalene	15.635	128	7031	0.678	ug/l #	1

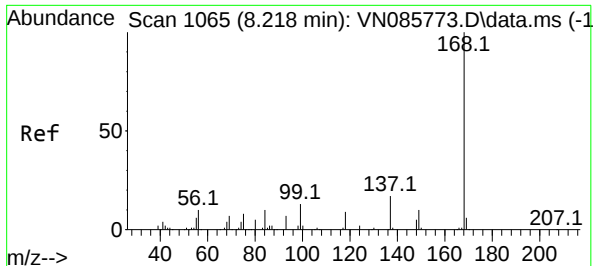
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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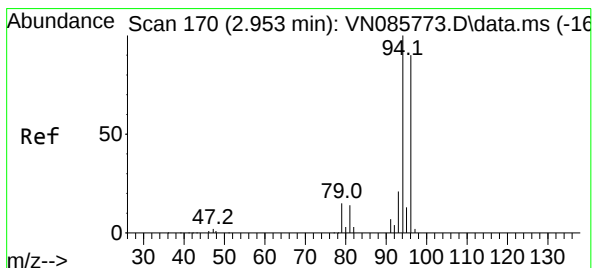
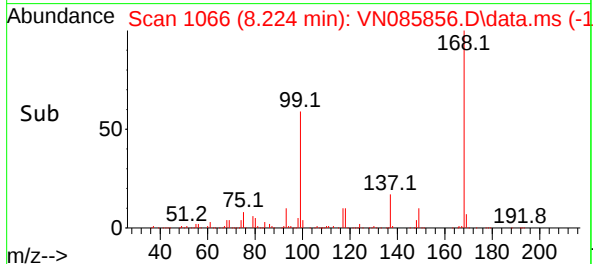
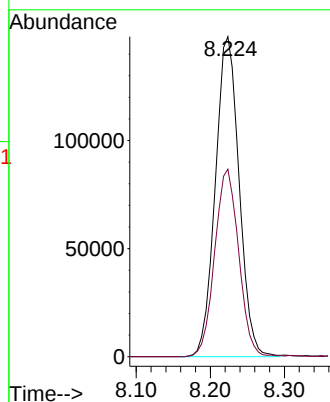
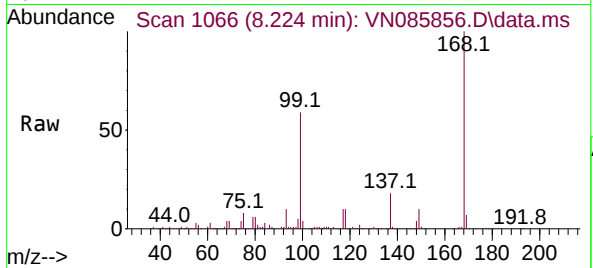




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085856.D
Acq: 25 Feb 2025 14:49

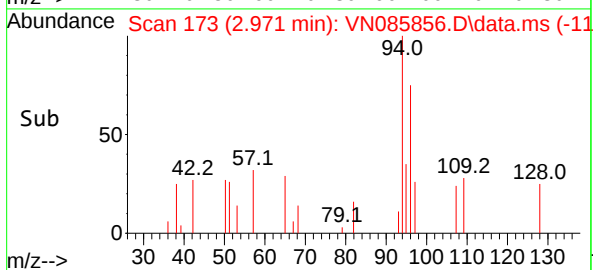
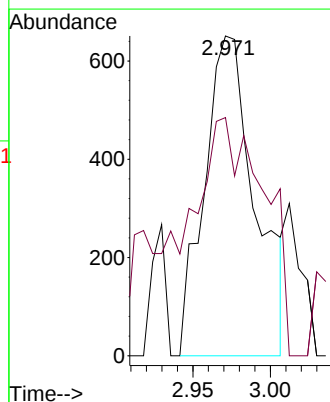
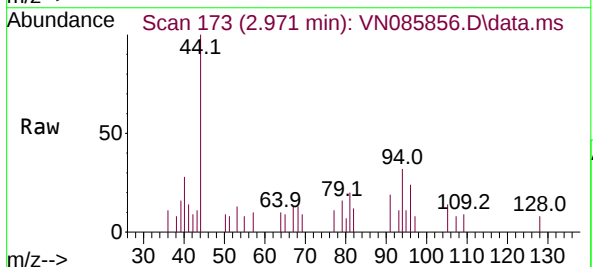
Instrument :
MSVOA_N
ClientSampleId :
IBLK

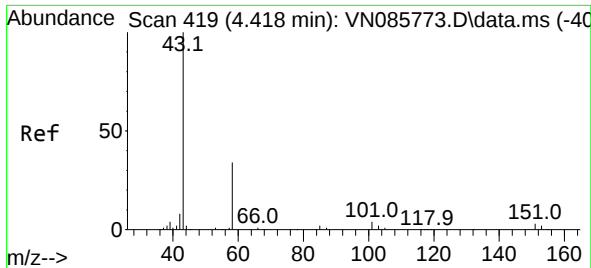
Tgt Ion:168 Resp: 329988
Ion Ratio Lower Upper
168 100
99 58.6 47.9 71.9



#5
Bromomethane
Concen: 0.487 ug/l
RT: 2.971 min Scan# 173
Delta R.T. 0.018 min
Lab File: VN085856.D
Acq: 25 Feb 2025 14:49

Tgt Ion: 94 Resp: 1485
Ion Ratio Lower Upper
94 100
96 42.7 71.7 107.5#

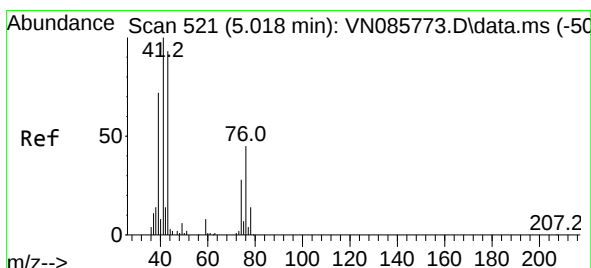
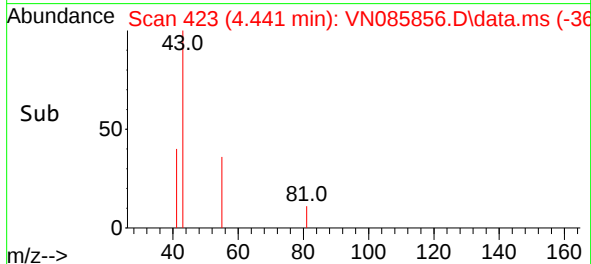
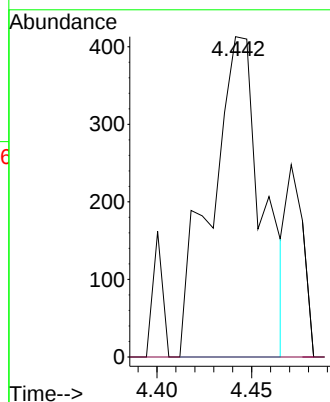
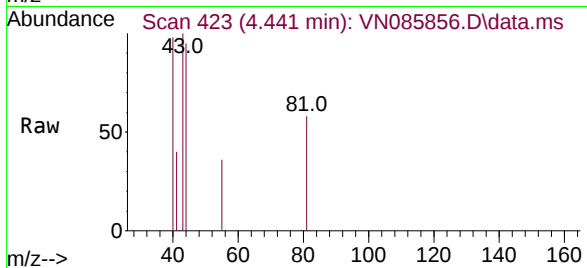




#16
Acetone
Concen: 0.573 ug/l
RT: 4.441 min Scan# 419
Delta R.T. 0.023 min
Lab File: VN085856.D
Acq: 25 Feb 2025 14:49

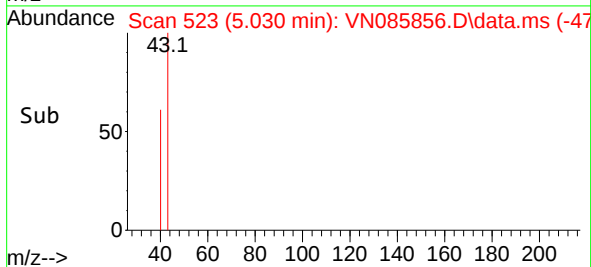
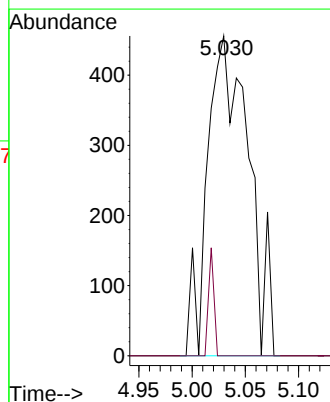
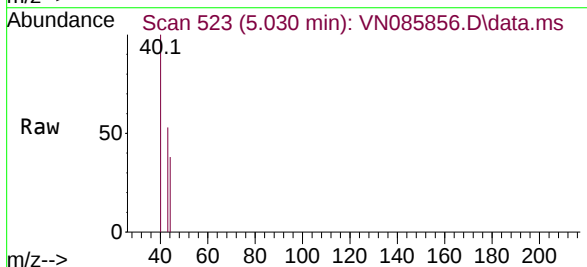
Instrument :
MSVOA_N
ClientSampleId :
IBLK

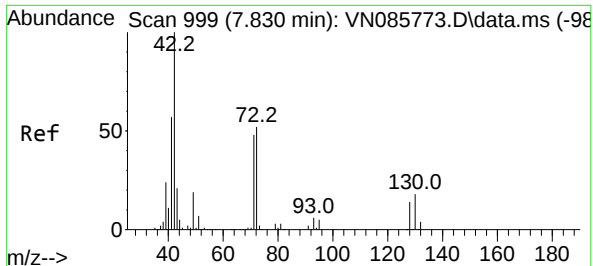
Tgt Ion: 43 Resp: 776
Ion Ratio Lower Upper
43 100
58 0.0 27.5 41.3#



#18
Methyl Acetate
Concen: 0.263 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.012 min
Lab File: VN085856.D
Acq: 25 Feb 2025 14:49

Tgt Ion: 43 Resp: 1223
Ion Ratio Lower Upper
43 100
74 4.4 22.2 33.4#





#29

Tetrahydrofuran

Concen: 0.242 ug/l

RT: 7.841 min Scan# 1001

Delta R.T. 0.012 min

Lab File: VN085856.D

Acq: 25 Feb 2025 14:49

Instrument :

MSVOA_N

ClientSampleId :

IBLK

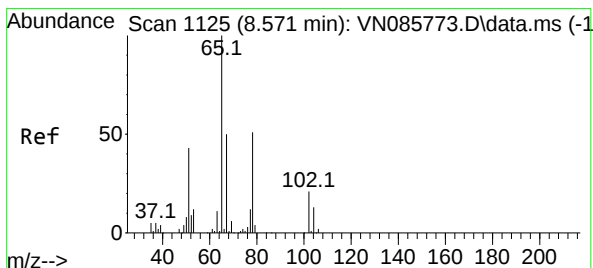
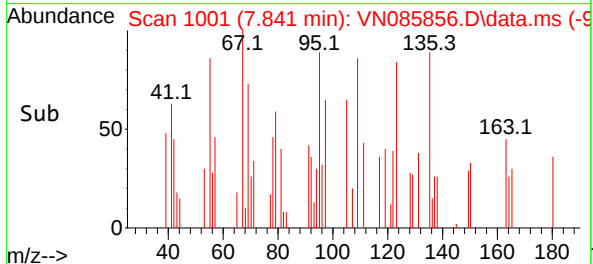
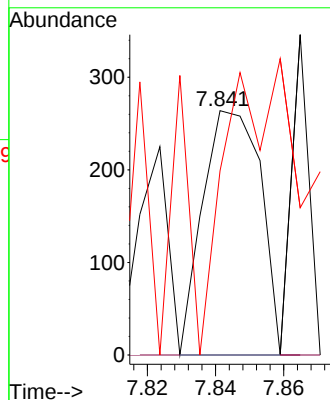
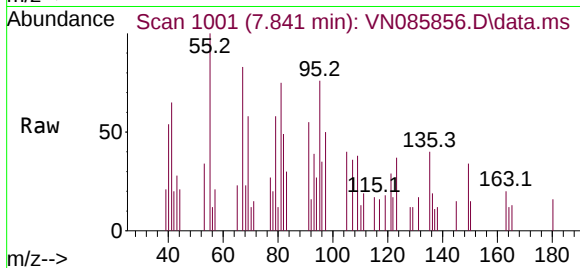
Tgt Ion: 42 Resp: 311

Ion Ratio Lower Upper

42 100

72 0.0 40.0 60.0#

71 0.0 37.0 55.4#



#33

1,2-Dichloroethane-d4

Concen: 47.466 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.006 min

Lab File: VN085856.D

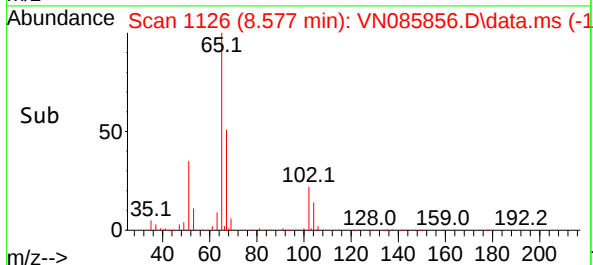
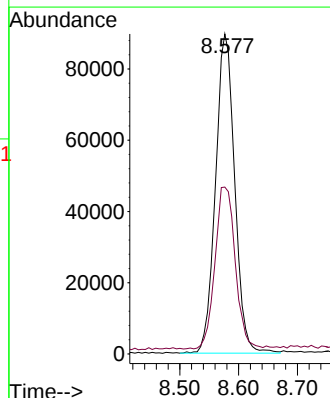
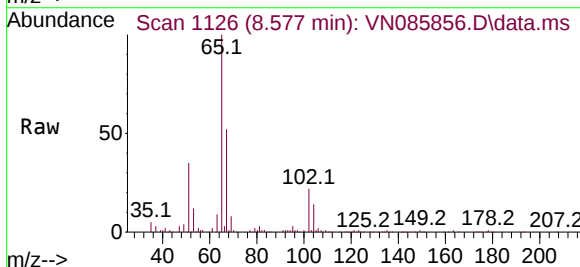
Acq: 25 Feb 2025 14:49

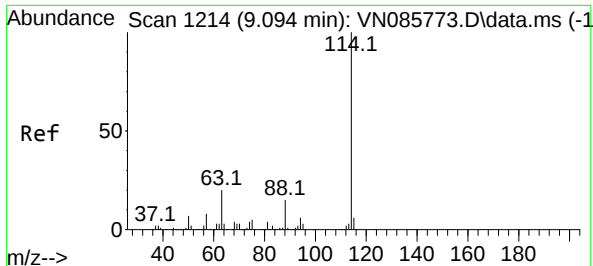
Tgt Ion: 65 Resp: 203067

Ion Ratio Lower Upper

65 100

67 53.8 0.0 106.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN085856.D

Acq: 25 Feb 2025 14:49

Instrument :

MSVOA_N

ClientSampleId :

IBLK

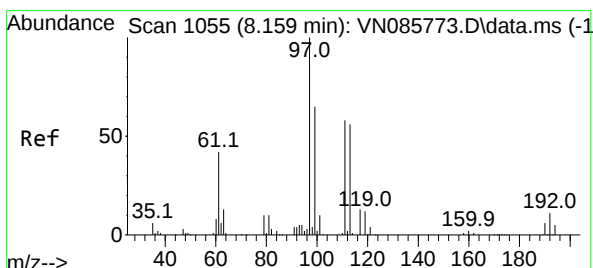
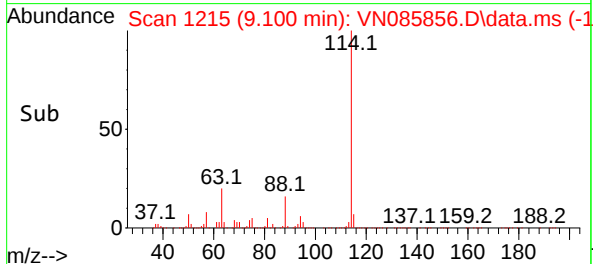
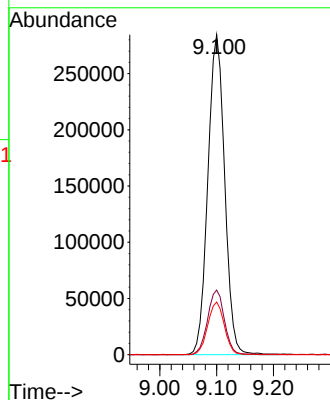
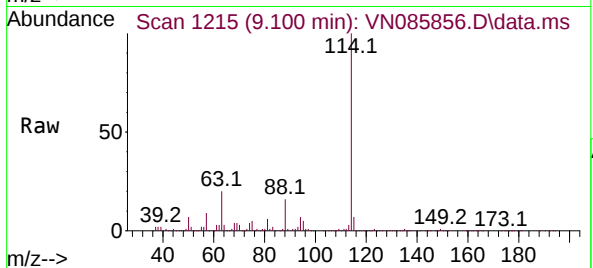
Tgt Ion:114 Resp: 583305

Ion Ratio Lower Upper

114 100

63 20.1 0.0 39.2

88 16.5 0.0 30.0



#35

Dibromofluoromethane

Concen: 47.635 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085856.D

Acq: 25 Feb 2025 14:49

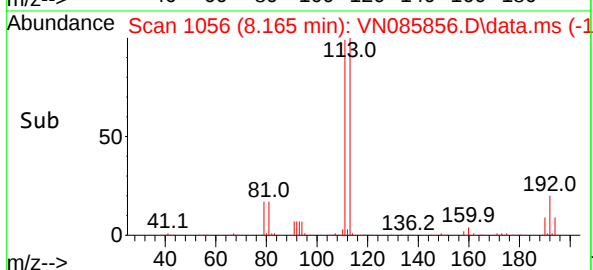
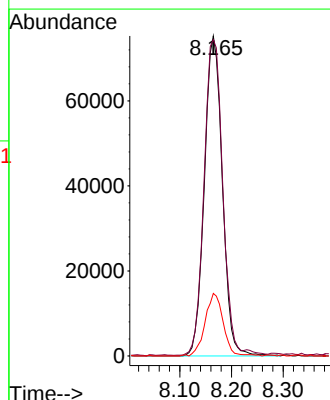
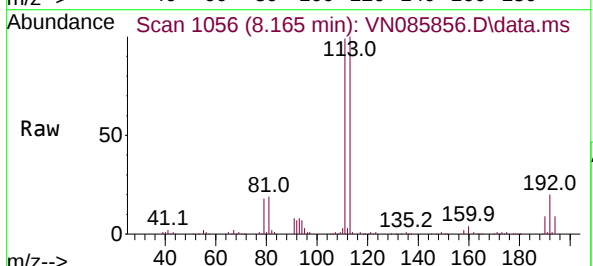
Tgt Ion:113 Resp: 181817

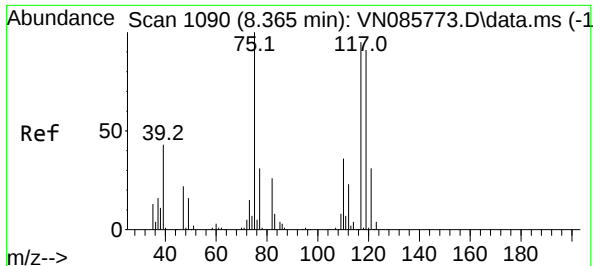
Ion Ratio Lower Upper

113 100

111 102.8 82.2 123.4

192 19.7 14.7 22.1





#36

1,1-Dichloropropene

Concen: 4.757 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN085856.D

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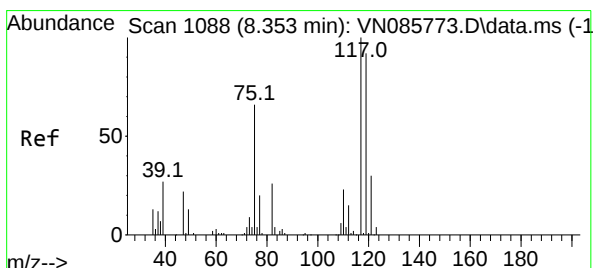
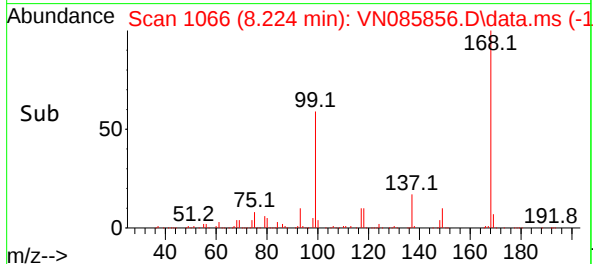
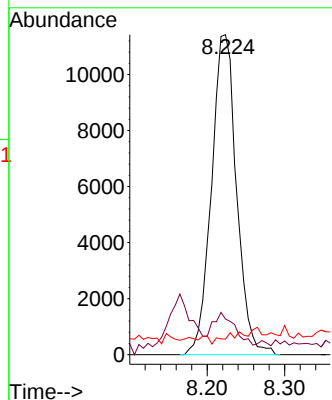
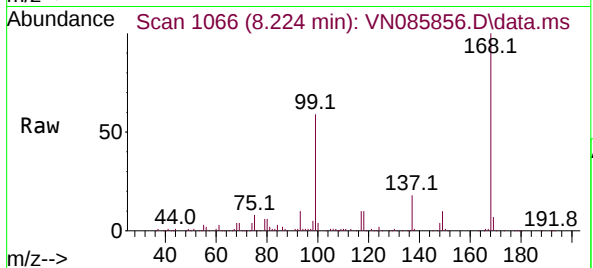
Tgt Ion: 75 Resp: 25695

Ion Ratio Lower Upper

75 100

110 9.8 17.3 52.0#

77 0.0 24.6 37.0#



#38

Carbon Tetrachloride

Concen: 5.413 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.130 min

Lab File: VN085856.D

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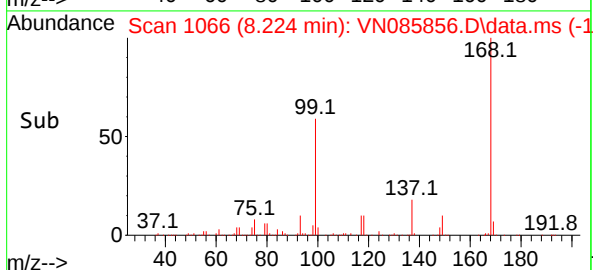
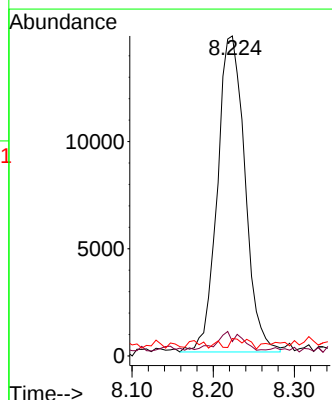
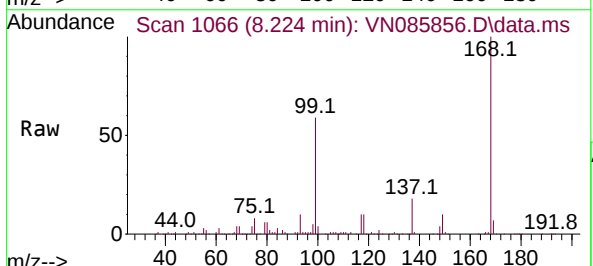
Tgt Ion: 117 Resp: 34743

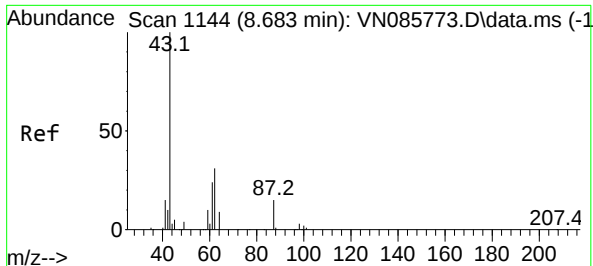
Ion Ratio Lower Upper

117 100

119 2.5 73.8 110.6#

121 2.6 24.3 36.5#

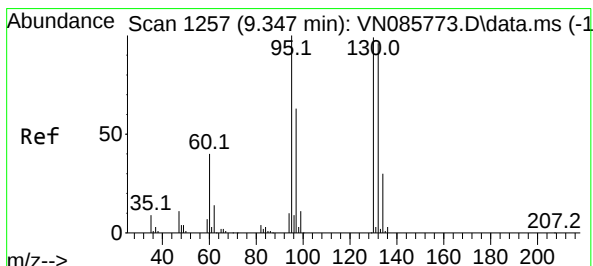
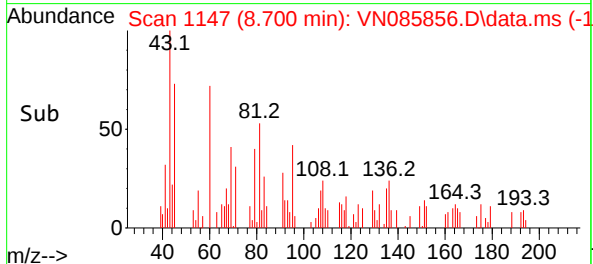
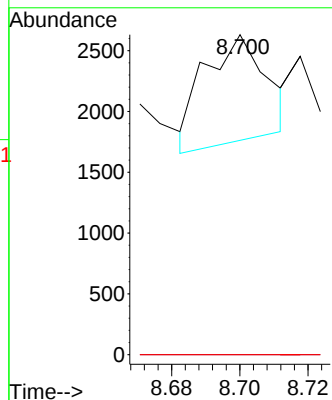
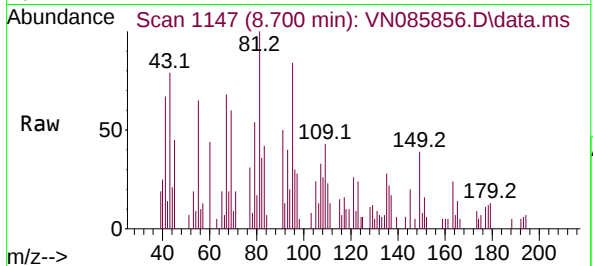




#43
Isopropyl Acetate
Concen: Below Cal
RT: 8.700 min Scan# 1144
Delta R.T. 0.017 min
Lab File: VN085856.D
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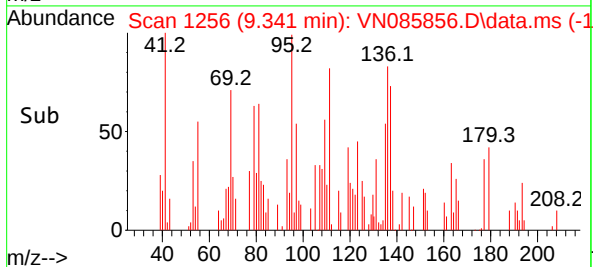
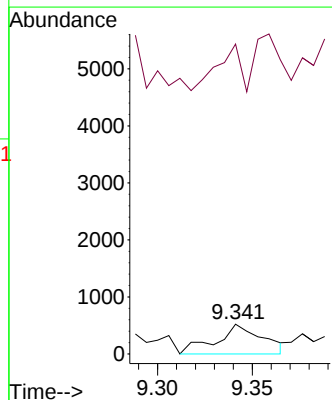
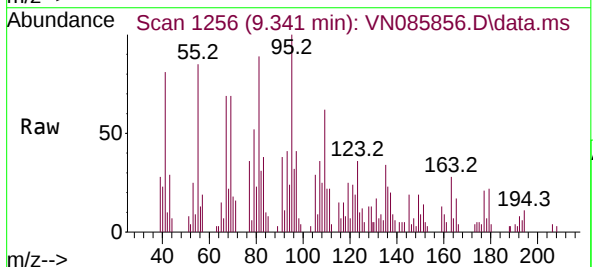
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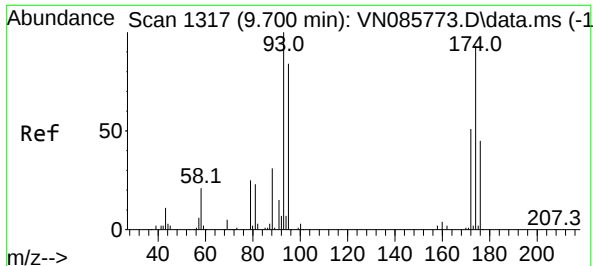
Tgt Ion: 43 Resp: 1120
Ion Ratio Lower Upper
43 100
61 0.0 22.6 34.0#
87 0.0 11.8 17.8#



#44
Trichloroethene
Concen: 0.209 ug/l
RT: 9.341 min Scan# 1256
Delta R.T. -0.006 min
Lab File: VN085856.D
Acq: 25 Feb 2025 14:49

Tgt Ion:130 Resp: 888
Ion Ratio Lower Upper
130 100
95 114.6 0.0 202.6

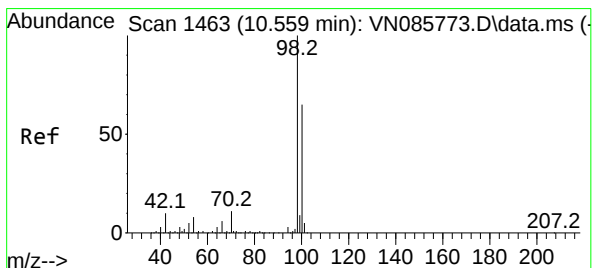
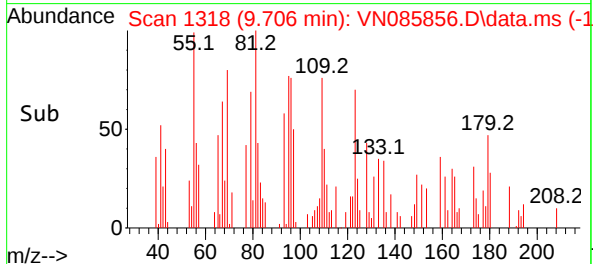
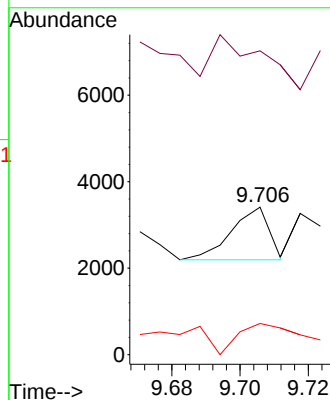
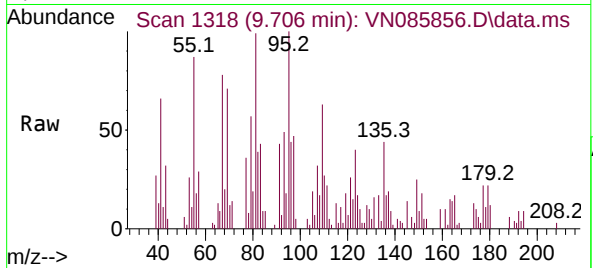




#46
Dibromomethane
Concen: 0.317 ug/l
RT: 9.706 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085856.D
Acq: 25 Feb 2025 14:49

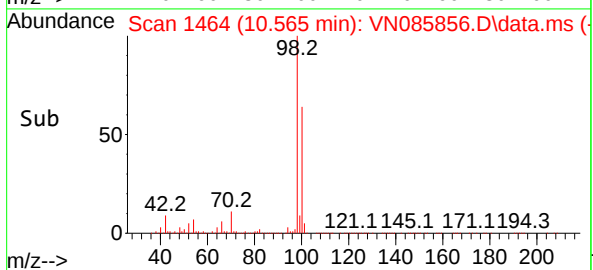
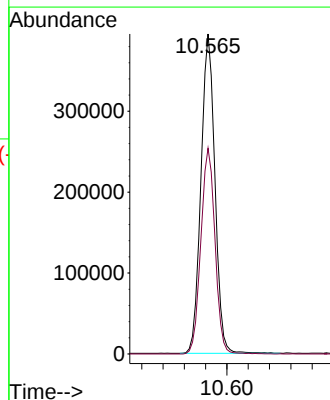
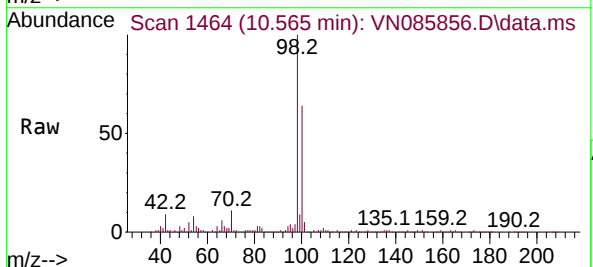
Instrument :
MSVOA_N
ClientSampleId :
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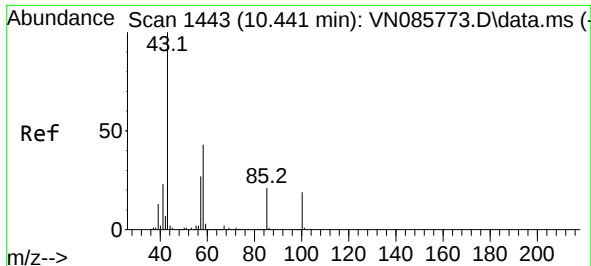
Tgt Ion: 93 Resp: 933
Ion Ratio Lower Upper
93 100
95 0.0 66.7 100.1#
174 101.0 77.2 115.8



#50
Toluene-d8
Concen: 51.693 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VN085856.D
Acq: 25 Feb 2025 14:49

Tgt Ion: 98 Resp: 717859
Ion Ratio Lower Upper
98 100
100 65.2 52.1 78.1

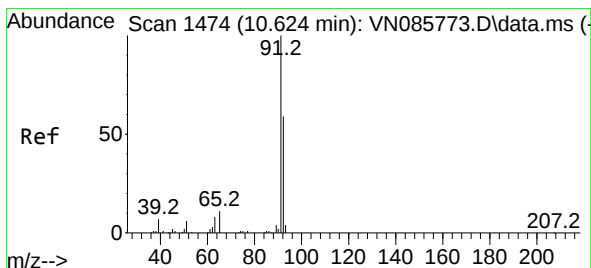
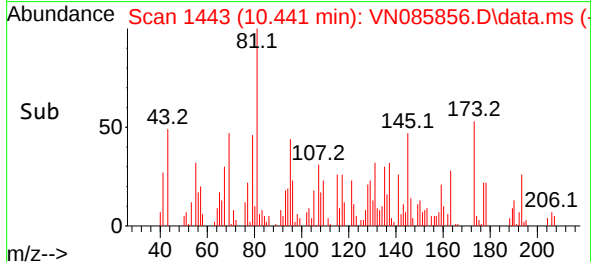
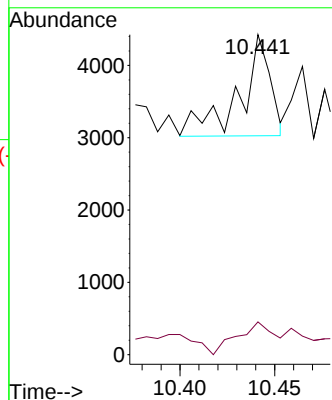
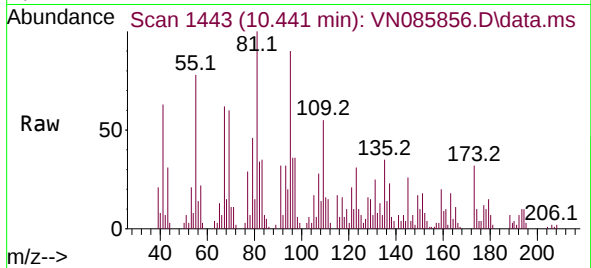




#51
4-Methyl-2-Pentanone
Concen: 0.367 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN085856.D
Acq: 25 Feb 2025 14:49

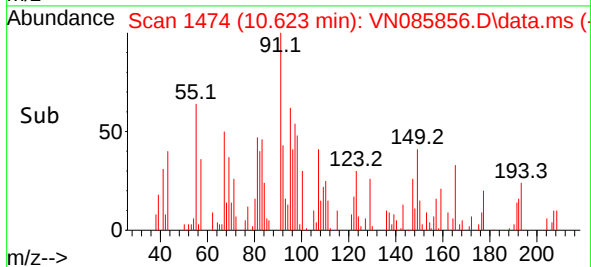
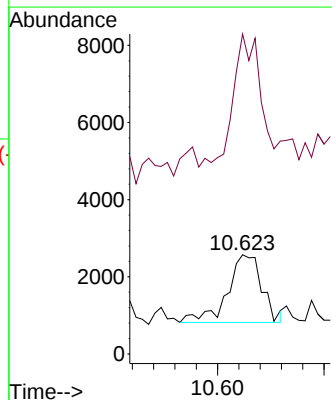
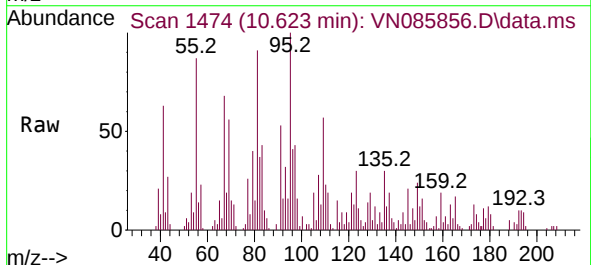
Instrument :
MSVOA_N
ClientSampleId :
IBLK

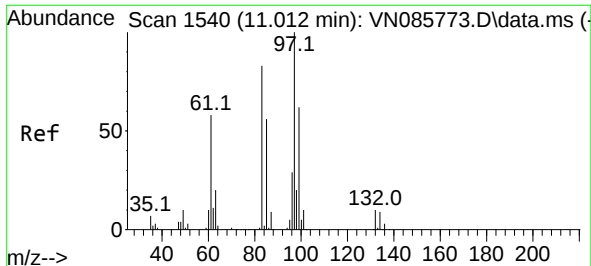
Tgt Ion: 43 Resp: 1572
Ion Ratio Lower Upper
43 100
58 39.1 34.6 52.0



#52
Toluene
Concen: 0.390 ug/l
RT: 10.623 min Scan# 1474
Delta R.T. -0.000 min
Lab File: VN085856.D
Acq: 25 Feb 2025 14:49

Tgt Ion: 92 Resp: 3960
Ion Ratio Lower Upper
92 100
91 140.3 136.9 205.3

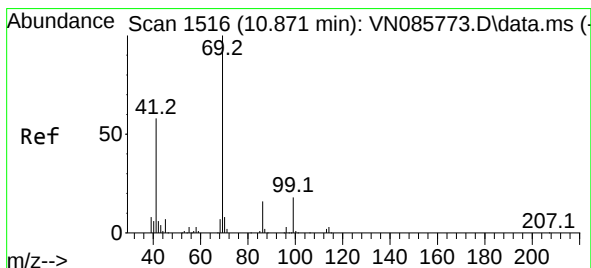
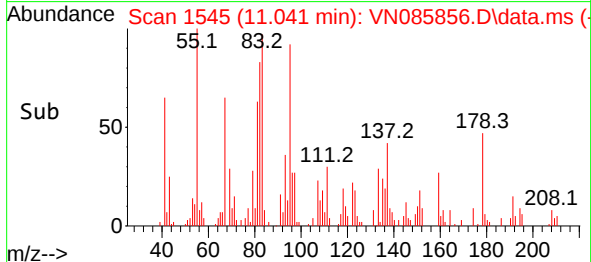
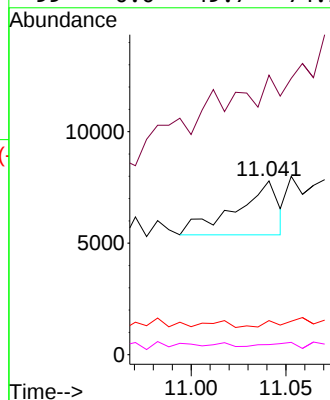
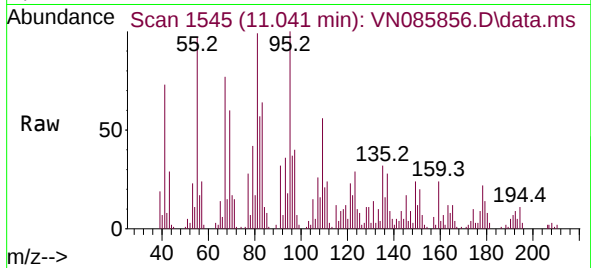




#55
1,1,2-Trichloroethane
Concen: 0.932 ug/l
RT: 11.041 min Scan# 1540
Delta R.T. 0.029 min
Lab File: VN085856.D
Acq: 25 Feb 2025 14:49

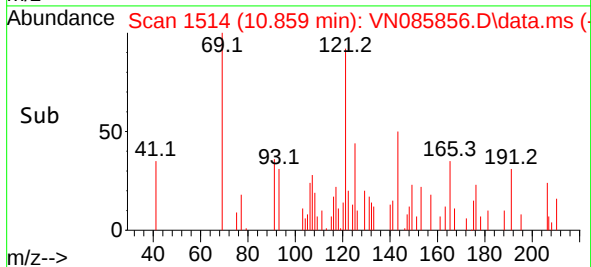
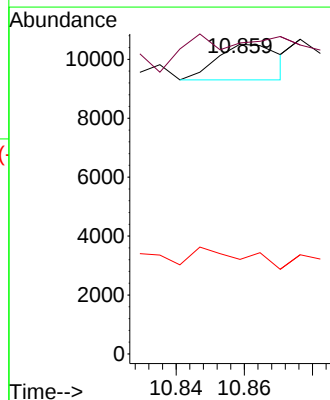
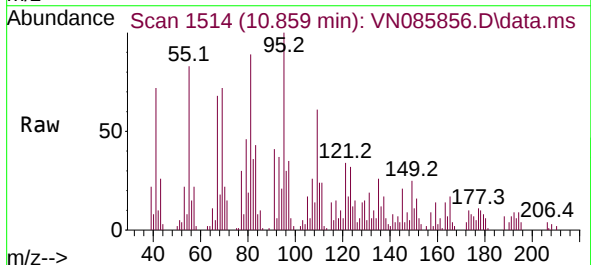
Instrument :
MSVOA_N
ClientSampleId :
IBLK

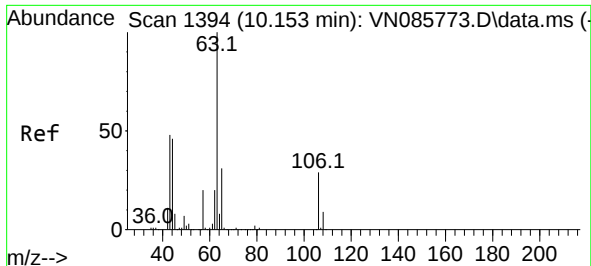
Tgt Ion:	97	Resp:	3761
Ion	Ratio	Lower	Upper
97	100		
83	80.0	66.1	99.1
85	8.3	44.7	67.1#
99	0.0	49.7	74.5#



#56
Ethyl methacrylate
Concen: 0.754 ug/l
RT: 10.859 min Scan# 1514
Delta R.T. -0.012 min
Lab File: VN085856.D
Acq: 25 Feb 2025 14:49

Tgt Ion:	69	Resp:	1527
Ion	Ratio	Lower	Upper
69	100		
41	65.8	46.0	69.0
39	50.6	22.0	33.0#

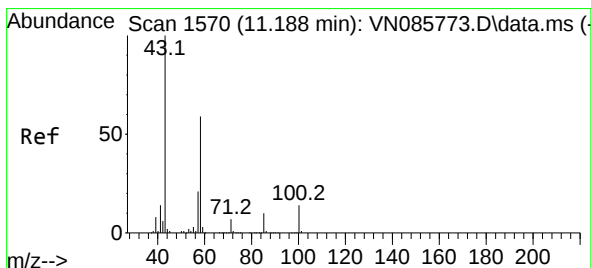
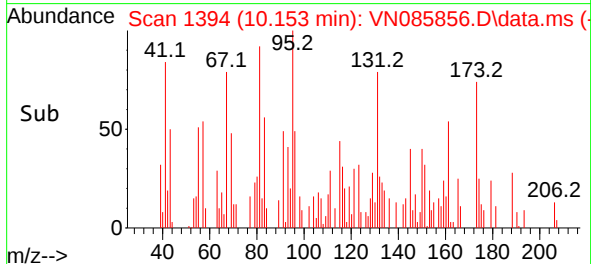
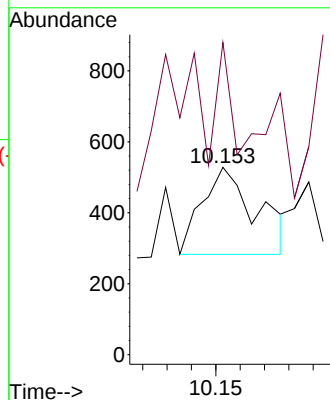
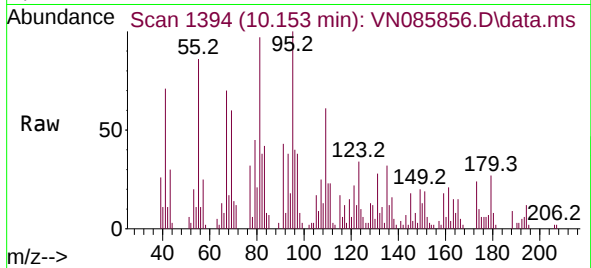




#58
2-Chloroethyl Vinyl ether
Concen: Below Cal
RT: 10.153 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085856.D
Acq: 25 Feb 2025 14:49

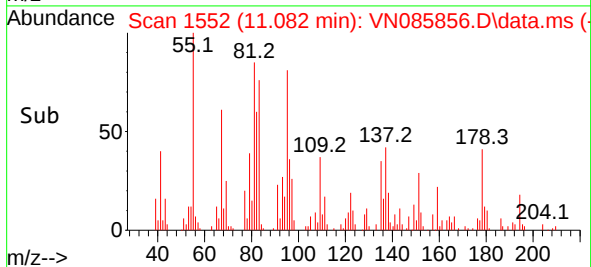
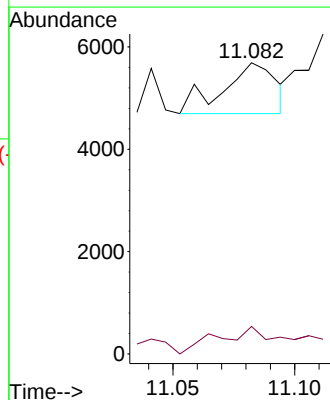
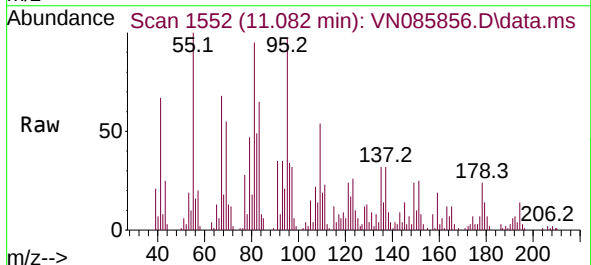
Instrument :
MSVOA_N
ClientSampleId :
IBLK

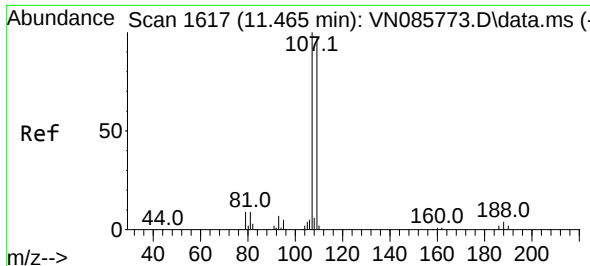
Tgt Ion: 63 Resp: 379
Ion Ratio Lower Upper
63 100
106 114.5 22.7 34.1#



#59
2-Hexanone
Concen: 0.510 ug/l
RT: 11.082 min Scan# 1552
Delta R.T. -0.106 min
Lab File: VN085856.D
Acq: 25 Feb 2025 14:49

Tgt Ion: 43 Resp: 1503
Ion Ratio Lower Upper
43 100
58 60.6 29.8 89.5

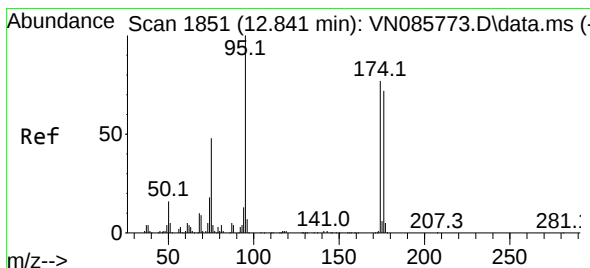
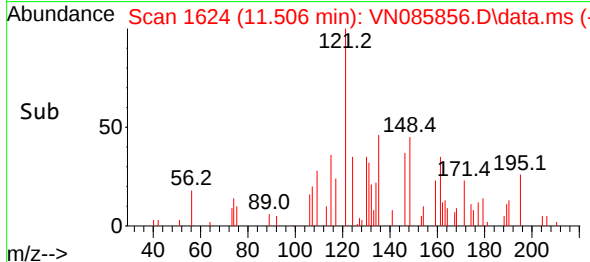
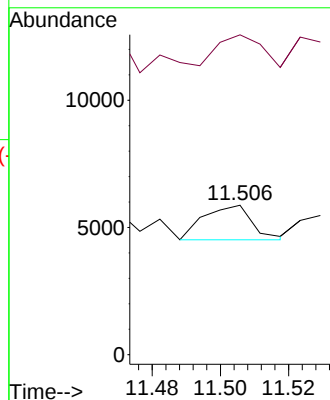
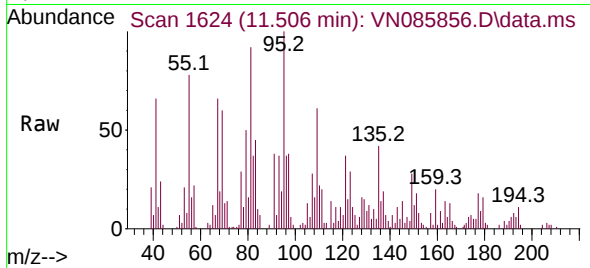




#61
1,2-Dibromoethane
Concen: 0.352 ug/l
RT: 11.506 min Scan# 1
Delta R.T. 0.041 min
Lab File: VN085856.D
Acq: 25 Feb 2025 14:49

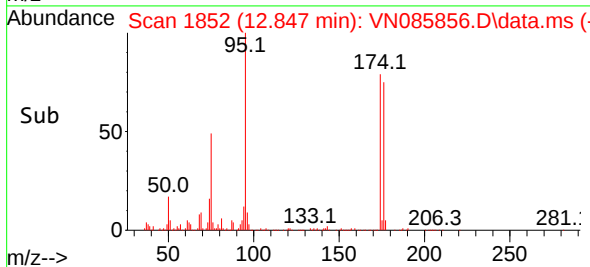
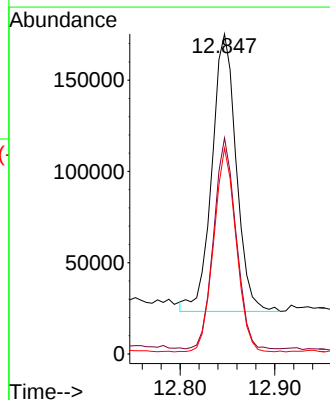
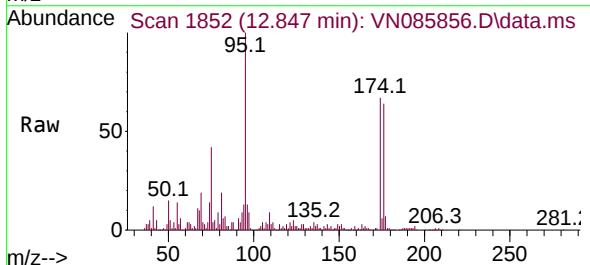
Instrument :
MSVOA_N
ClientSampleId :
IBLK

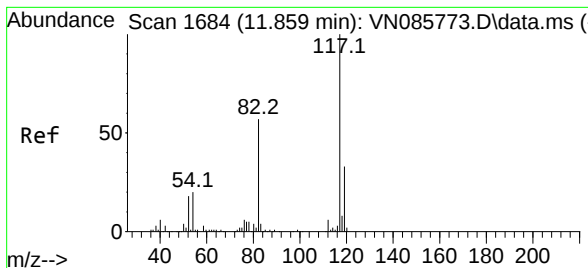
Tgt Ion:107 Resp: 1341
Ion Ratio Lower Upper
107 100
109 84.0 76.0 114.0



#62
4-Bromofluorobenzene
Concen: 59.143 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.006 min
Lab File: VN085856.D
Acq: 25 Feb 2025 14:49

Tgt Ion: 95 Resp: 270607
Ion Ratio Lower Upper
95 100
174 69.6 0.0 152.4
176 67.9 0.0 146.6

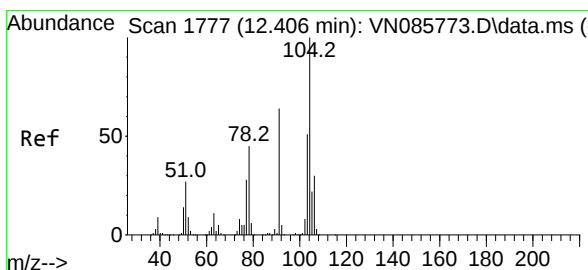
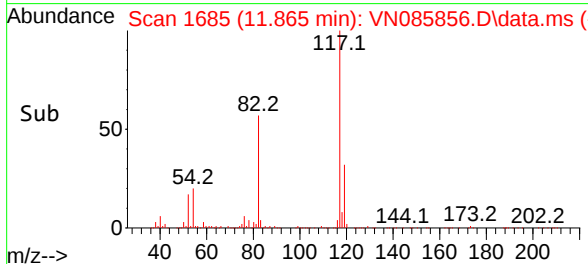
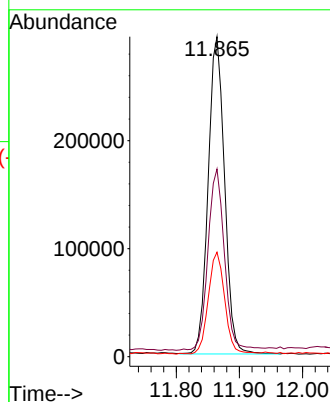
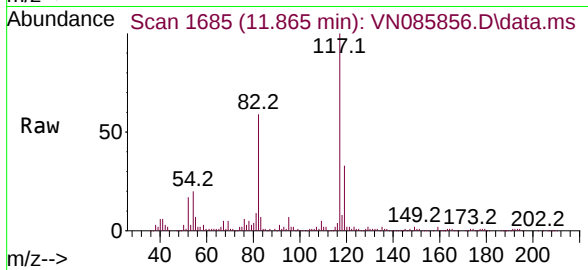




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.006 min
Lab File: VN085856.D
Acq: 25 Feb 2025 14:49

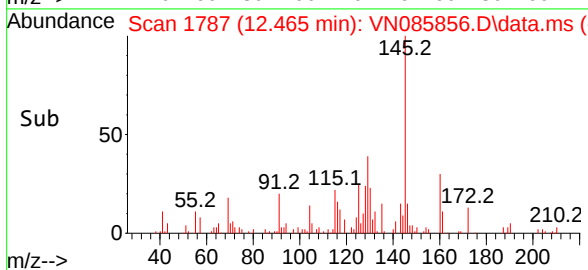
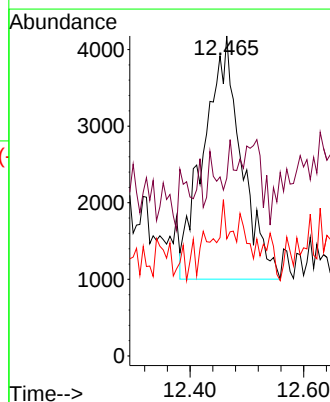
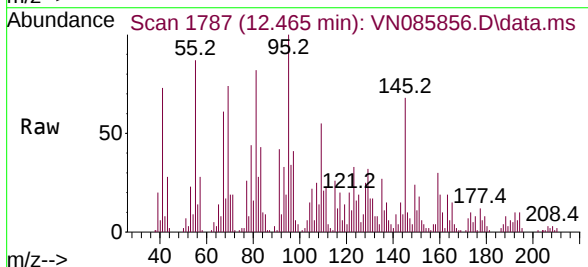
Instrument :
MSVOA_N
ClientSampleId :
IBLK

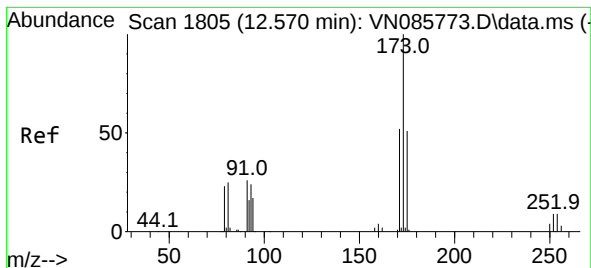
Tgt Ion:117 Resp: 530333
Ion Ratio Lower Upper
117 100
82 57.1 45.7 68.5
119 31.9 26.2 39.2



#70
Styrene
Concen: 1.822 ug/l
RT: 12.465 min Scan# 1787
Delta R.T. 0.059 min
Lab File: VN085856.D
Acq: 25 Feb 2025 14:49

Tgt Ion:104 Resp: 14547
Ion Ratio Lower Upper
104 100
78 3.2 39.0 58.6#
103 5.2 43.3 64.9#





#71

Bromoform

Concen: 1.498 ug/l

RT: 12.588 min Scan# 1808

Delta R.T. 0.018 min

Lab File: VN085856.D

Acq: 25 Feb 2025 14:49

Instrument :

MSVOA_N

ClientSampleId :

IBLK

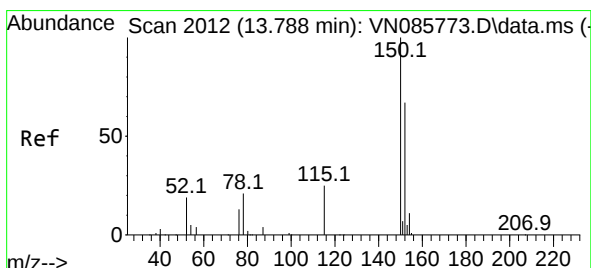
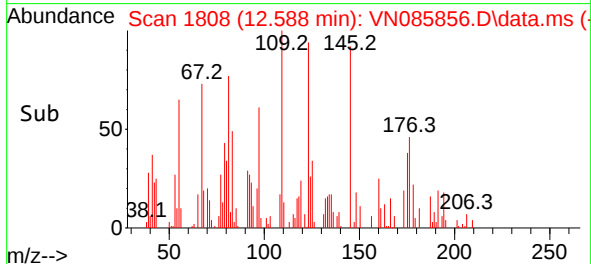
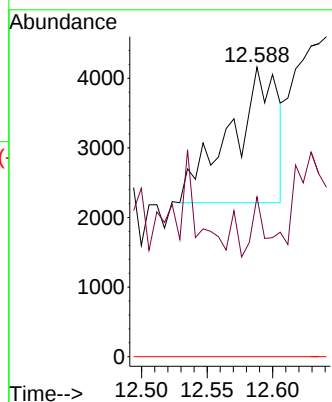
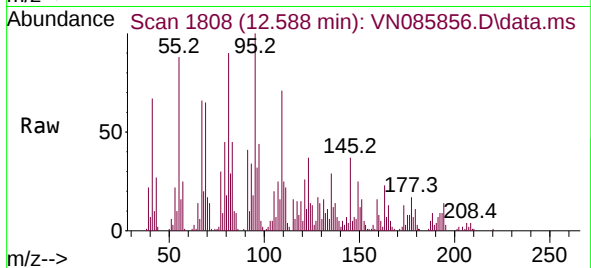
Tgt Ion:173 Resp: 4861

Ion Ratio Lower Upper

173 100

175 11.7 25.1 75.4#

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: VN085856.D

Acq: 25 Feb 2025 14:49

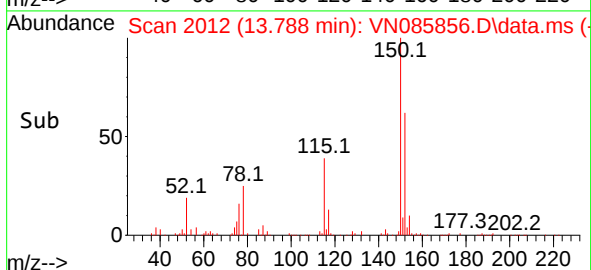
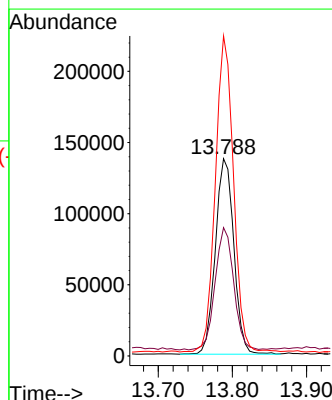
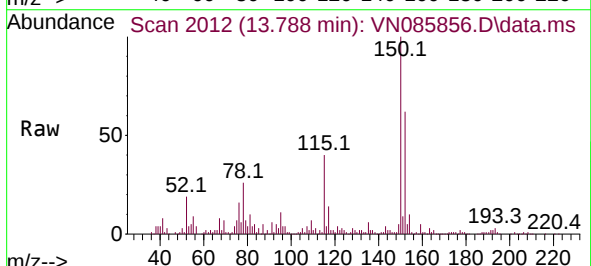
Tgt Ion:152 Resp: 237734

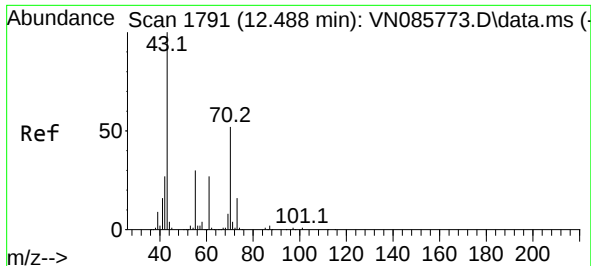
Ion Ratio Lower Upper

152 100

115 63.1 30.4 91.3

150 157.3 0.0 345.4

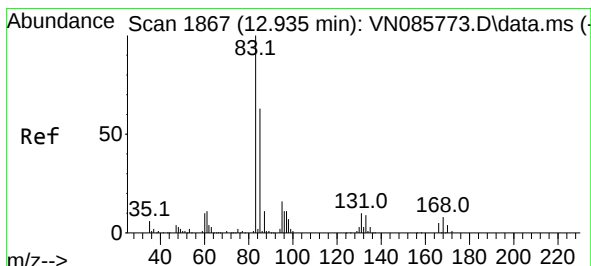
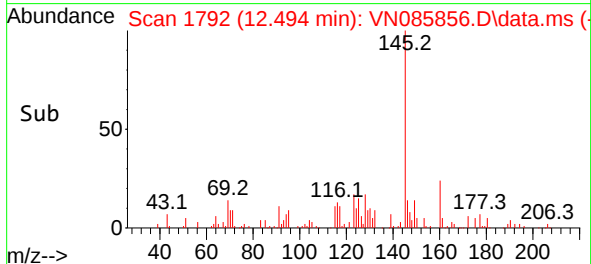
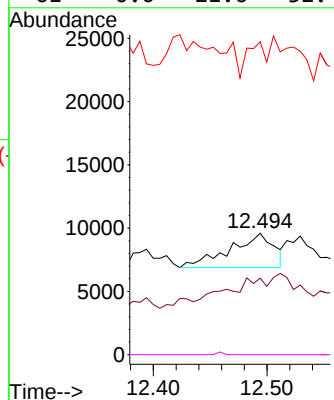
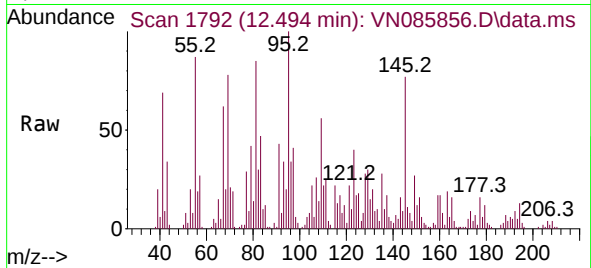




#74
N-amy1 acetate
Concen: 1.272 ug/l
RT: 12.494 min Scan# 1791
Delta R.T. 0.006 min
Lab File: VN085856.D
Acq: 25 Feb 2025 14:49

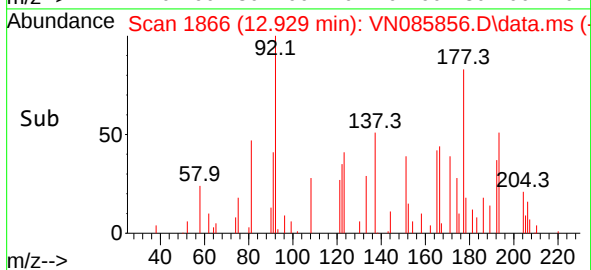
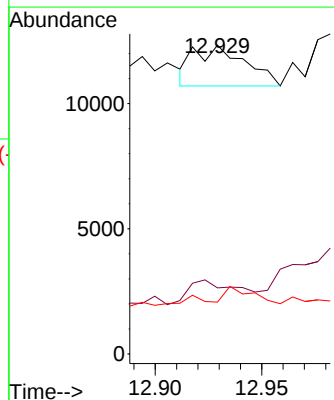
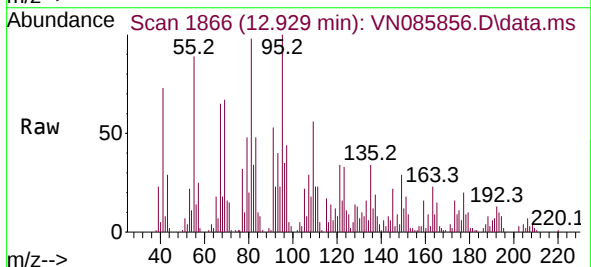
Instrument :
MSVOA_N
ClientSampleId :
IBLK

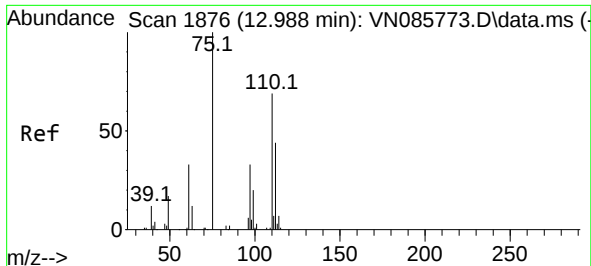
Tgt Ion: 43 Resp: 7306
Ion Ratio Lower Upper
43 100
70 58.6 41.0 61.4
55 42.5 24.6 36.8#
61 0.0 21.6 32.4#



#75
1,1,2,2-Tetrachloroethane
Concen: 0.484 ug/l
RT: 12.929 min Scan# 1866
Delta R.T. -0.006 min
Lab File: VN085856.D
Acq: 25 Feb 2025 14:49

Tgt Ion: 83 Resp: 2713
Ion Ratio Lower Upper
83 100
131 58.1 5.0 15.0#
85 36.5 32.2 96.6

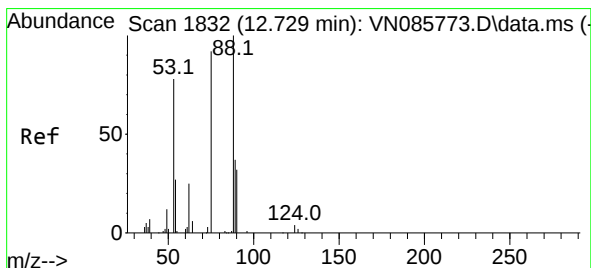
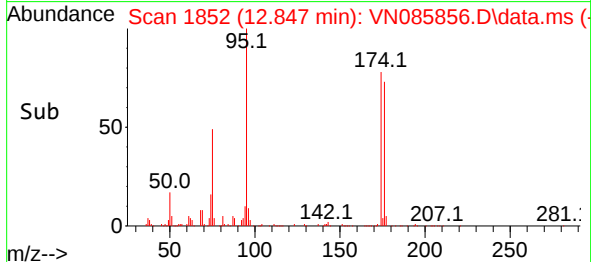
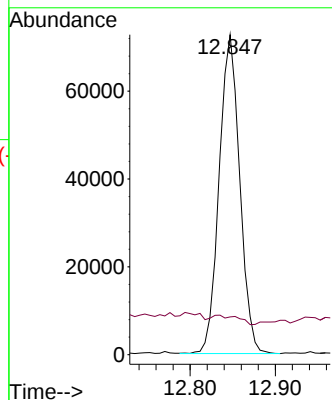
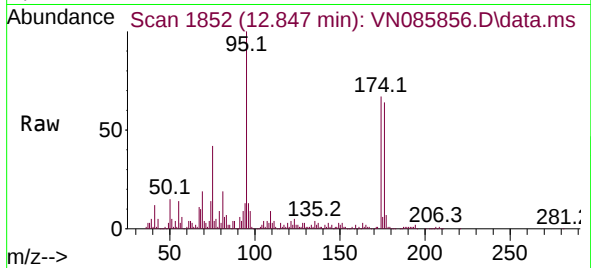




#76
1,2,3-Trichloropropane
Concen: 23.068 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN085856.D
Acq: 25 Feb 2025 14:49

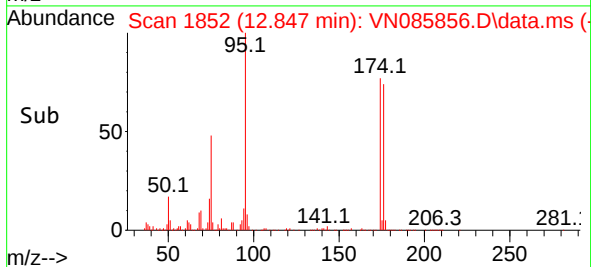
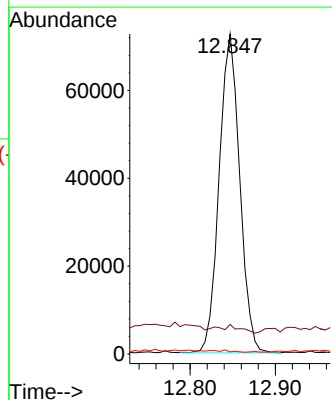
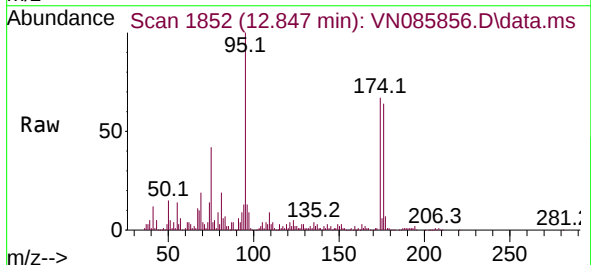
Instrument :
MSVOA_N
ClientSampleId :
IBLK

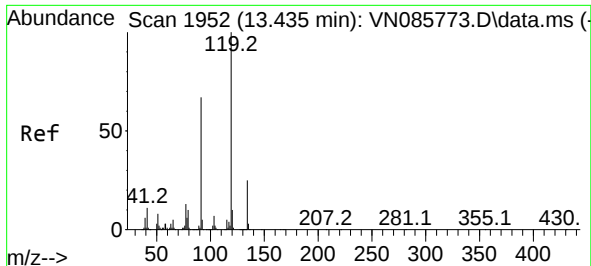
Tgt Ion: 75 Resp: 121817
Ion Ratio Lower Upper
75 100
77 3.3 100.0 300.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 67.306 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.118 min
Lab File: VN085856.D
Acq: 25 Feb 2025 14:49

Tgt Ion: 75 Resp: 121817
Ion Ratio Lower Upper
75 100
53 1.5 74.2 111.4#
89 0.0 34.9 52.3#

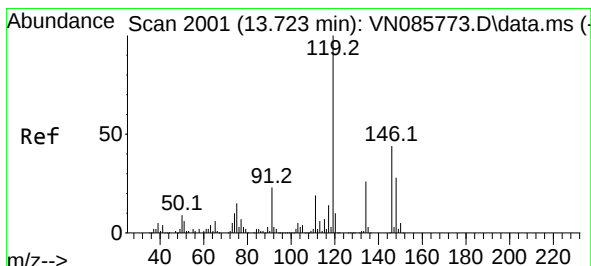
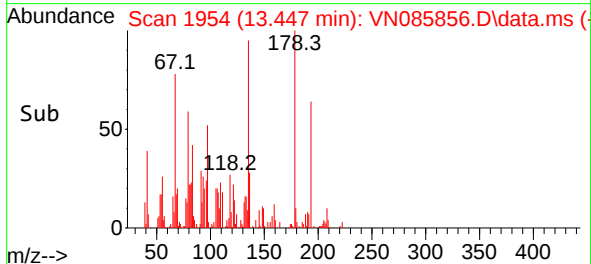
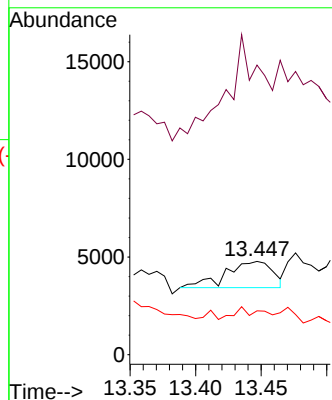
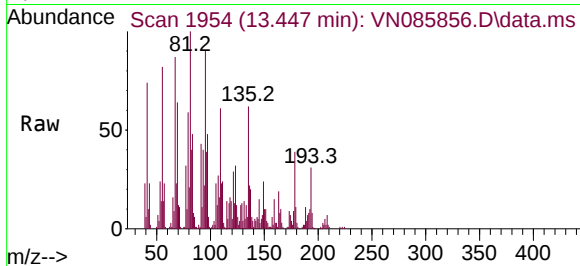




#83
tert-Butylbenzene
Concen: 0.299 ug/l
RT: 13.447 min Scan# 1952
Delta R.T. 0.012 min
Lab File: VN085856.D
Acq: 25 Feb 2025 14:49

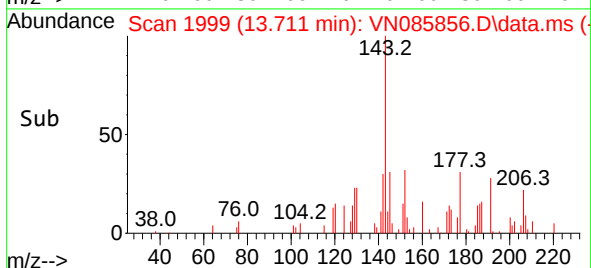
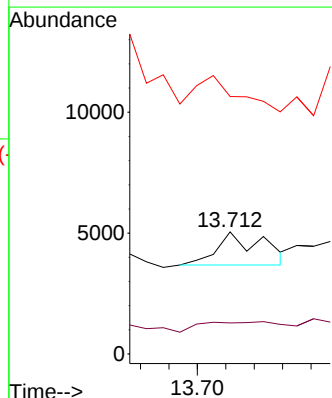
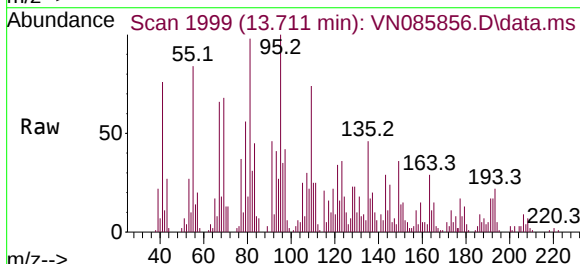
Instrument :
MSVOA_N
ClientSampleId :
IBLK

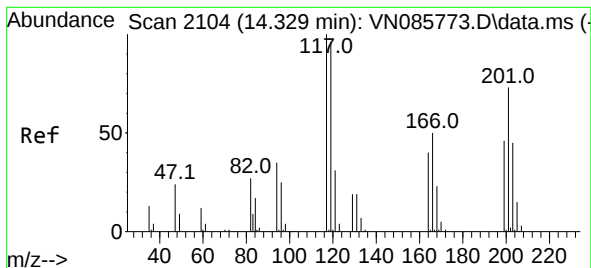
Tgt Ion:119 Resp: 3337
Ion Ratio Lower Upper
119 100
91 261.6 32.5 97.5#
134 12.0 13.3 39.9#



#86
p-Isopropyltoluene
Concen: 0.738 ug/l
RT: 13.711 min Scan# 1999
Delta R.T. -0.012 min
Lab File: VN085856.D
Acq: 25 Feb 2025 14:49

Tgt Ion:119 Resp: 1515
Ion Ratio Lower Upper
119 100
134 59.5 13.0 39.0#
91 0.0 11.7 35.1#





#90

Hexachloroethane

Concen: 0.533 ug/l

RT: 14.329 min Scan# 2104

Delta R.T. -0.000 min

Lab File: VN085856.D

Acq: 25 Feb 2025 14:49

Instrument :

MSVOA_N

ClientSampleId :

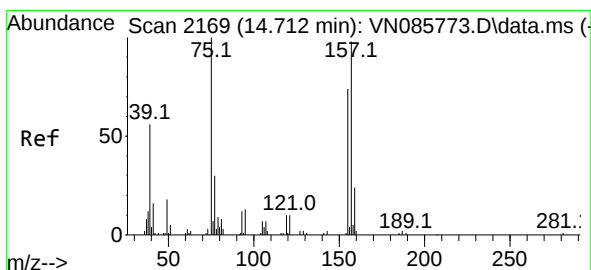
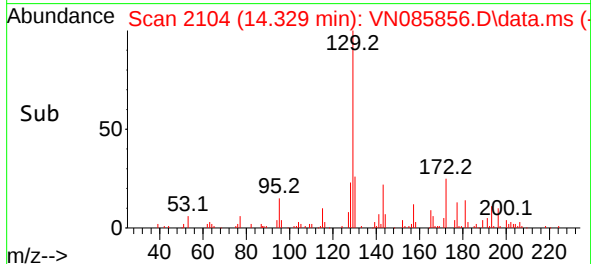
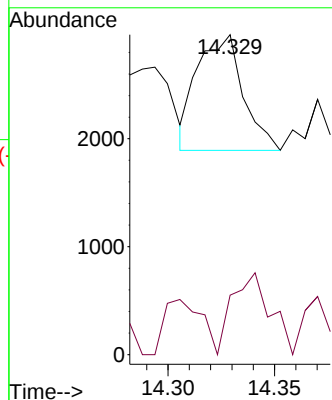
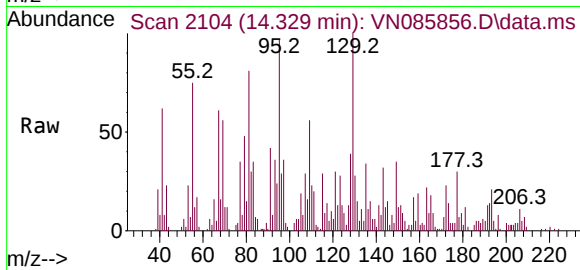
IBLK

Tgt Ion:117 Resp: 1590

Ion Ratio Lower Upper

117 100

201 59.1 35.6 106.9



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.594 ug/l

RT: 14.700 min Scan# 2167

Delta R.T. -0.012 min

Lab File: VN085856.D

Acq: 25 Feb 2025 14:49

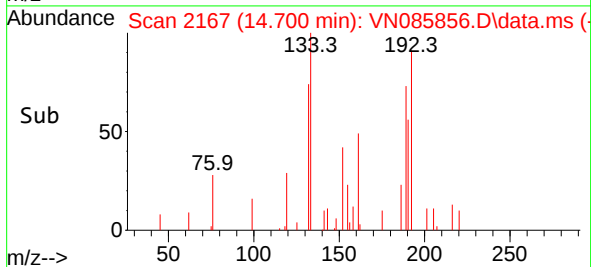
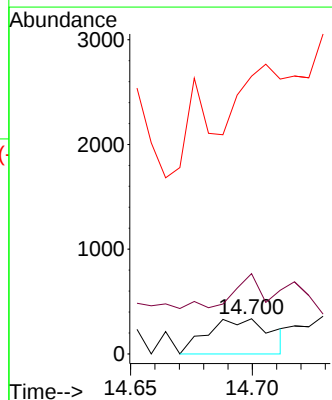
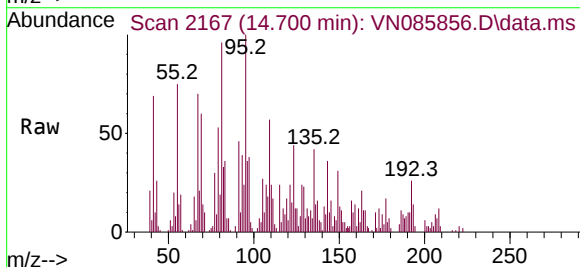
Tgt Ion: 75 Resp: 611

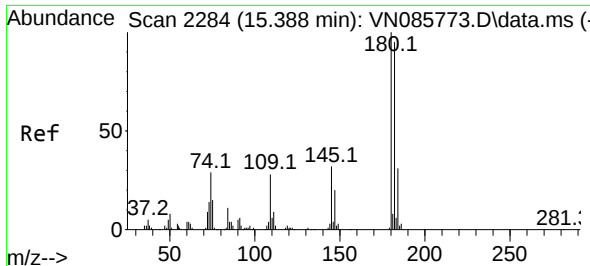
Ion Ratio Lower Upper

75 100

155 34.5 39.9 119.6#

157 123.7 49.9 149.7

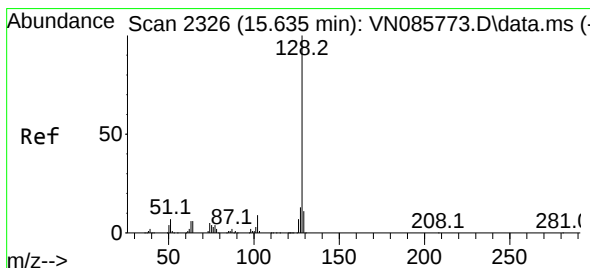
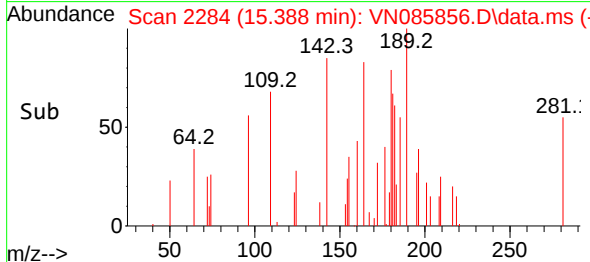
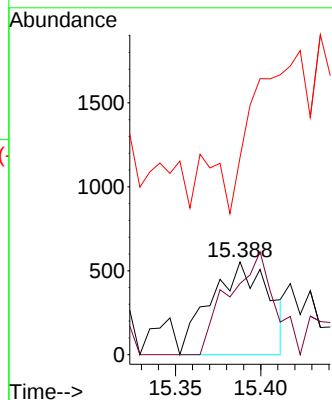
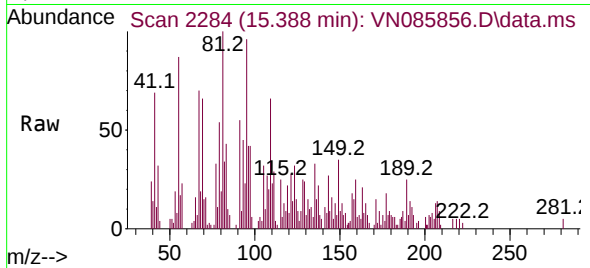




#93
1,2,4-Trichlorobenzene
Concen: 0.346 ug/l
RT: 15.388 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN085856.D
Acq: 25 Feb 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
IBLK

Tgt Ion:180 Resp: 1306
Ion Ratio Lower Upper
180 100
182 87.4 47.3 141.9
145 0.0 16.2 48.5#



#95
Naphthalene
Concen: 0.678 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.000 min
Lab File: VN085856.D
Acq: 25 Feb 2025 14:49

Tgt Ion:128 Resp: 7031
Ion Ratio Lower Upper
128 100
127 4.8 10.2 15.2#
129 168.6 8.7 13.1#

