

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110424\
 Data File : VN084662.D
 Acq On : 04 Nov 2024 17:05
 Operator : JC\MD
 Sample : P4660-11
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 05 00:30:37 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:45:38 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	184104	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	316954	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	288197	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	138528	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	123825	46.567	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	93.140%		
35) Dibromofluoromethane	8.165	113	101342	47.237	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	94.480%		
50) Toluene-d8	10.565	98	372332	47.113	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	94.220%		
62) 4-Bromofluorobenzene	12.847	95	147217	49.843	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	99.680%		
Target Compounds						Qvalue
3) Chloromethane	2.359	50	614	Below Cal	#	41
6) Chloroethane	3.142	64	426	Below Cal	#	45
11) Tert butyl alcohol	5.547	59	310	0.883	ug/l #	73
16) Acetone	4.430	43	33304	40.973	ug/l	96
17) Carbon Disulfide	4.695	76	1411	0.219	ug/l #	75
18) Methyl Acetate	5.024	43	6989	Below Cal		99
25) 2-Butanone	7.488	43	3805	3.067	ug/l	98
29) Tetrahydrofuran	7.841	42	642	0.780	ug/l #	47
31) Cyclohexane	8.224	56	3761	1.024	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	15151	5.092	ug/l #	51
37) Ethyl Acetate	7.565	43	2308	0.855	ug/l #	85
38) Carbon Tetrachloride	8.218	117	19401	5.834	ug/l #	15
43) Isopropyl Acetate	8.688	43	132848	26.178	ug/l #	85
45) 1,2-Dichloropropane	9.741	63	975	0.435	ug/l #	44
48) Methyl methacrylate	9.671	41	2884	1.373	ug/l #	43
51) 4-Methyl-2-Pentanone	10.441	43	5610	2.180	ug/l	96
54) cis-1,3-Dichloropropene	10.359	75	37389	10.236	ug/l #	60
56) Ethyl methacrylate	10.982	69	1072	0.352	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	4439	1.229	ug/l #	42
59) 2-Hexanone	11.171	43	93587	49.961	ug/l #	24
74) N-amyl acetate	12.476	43	1192	0.288	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	76189	27.514	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	76189	65.274	ug/l #	11
88) 1,4-Dichlorobenzene	13.812	146	70	Below Cal	#	24
90) Hexachloroethane	14.447	117	858	0.499	ug/l #	15
95) Naphthalene	15.641	128	150580	18.780	ug/l	100

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

Quant Time: Nov 05 00:30:37 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
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QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

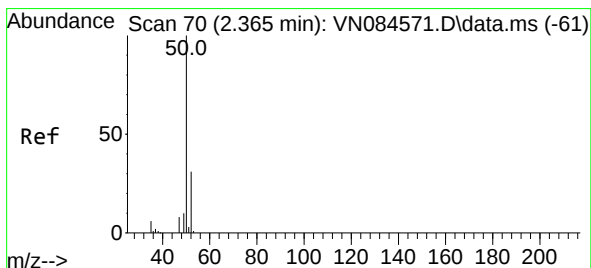
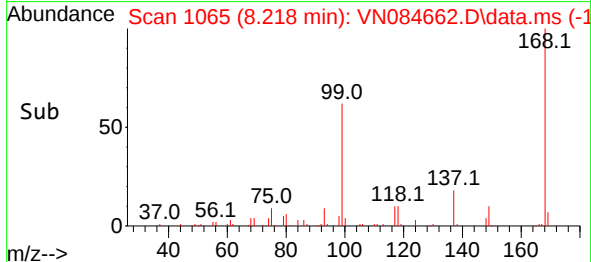
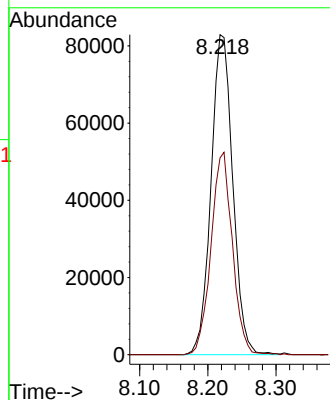
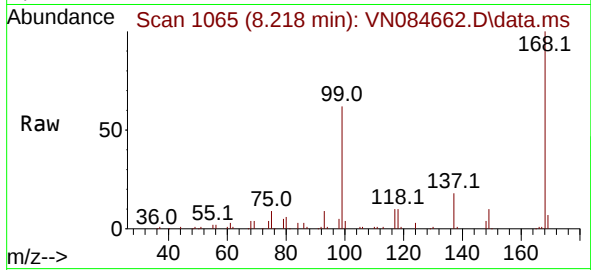




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.006 min
Lab File: VN084662.D
Acq: 04 Nov 2024 17:05

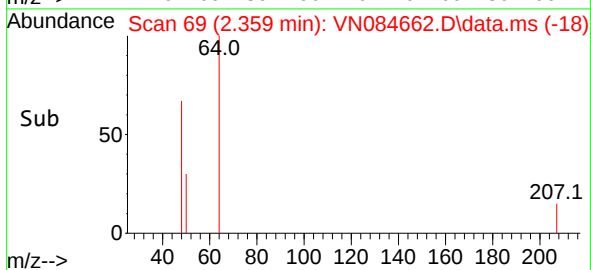
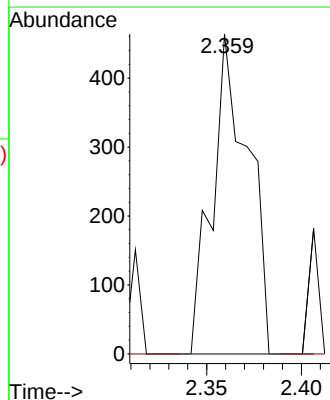
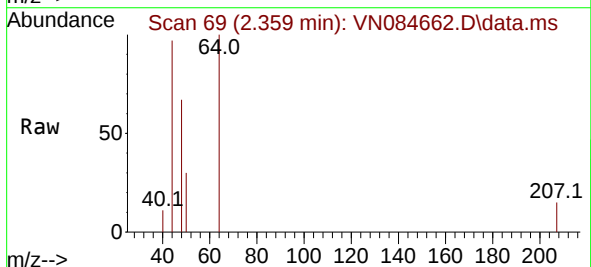
Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:168 Resp: 184104
Ion Ratio Lower Upper
168 100
99 61.5 54.2 81.2



#3
Chloromethane
Concen: Below Cal
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN084662.D
Acq: 04 Nov 2024 17:05

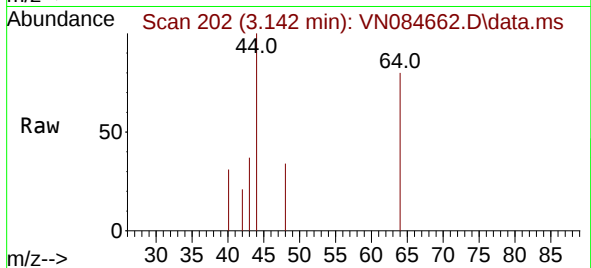
Tgt Ion: 50 Resp: 614
Ion Ratio Lower Upper
50 100
52 0.0 26.8 40.2#



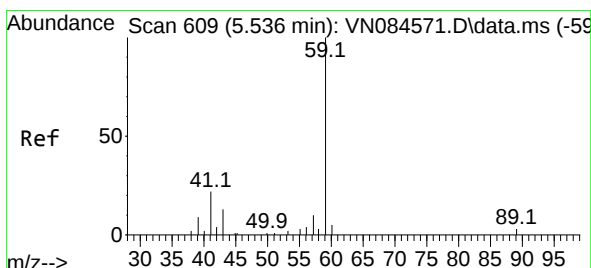
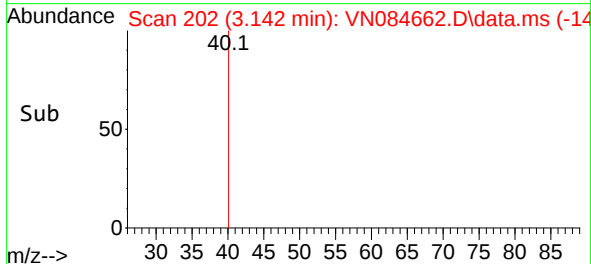
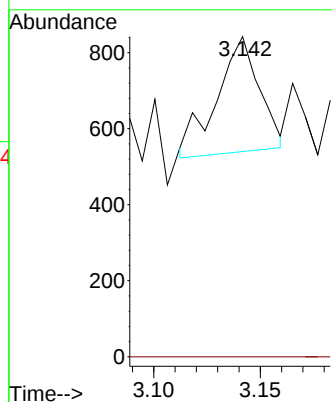


#6
Chloroethane
Concen: Below Cal
RT: 3.142 min Scan# 20
Delta R.T. 0.024 min
Lab File: VN084662.D
Acq: 04 Nov 2024 17:05

Instrument :
MSVOA_N
ClientSampleId :

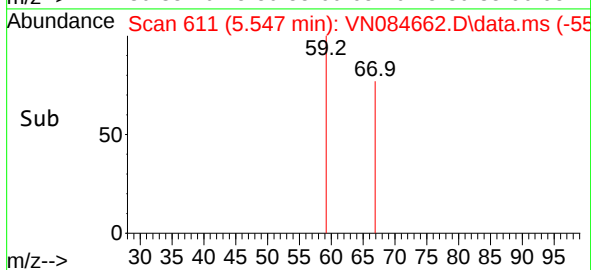
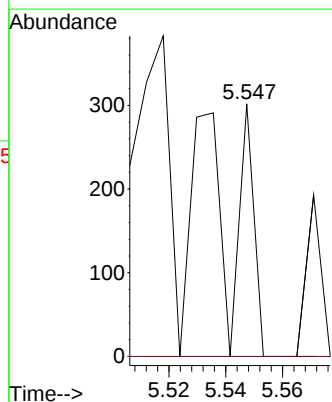
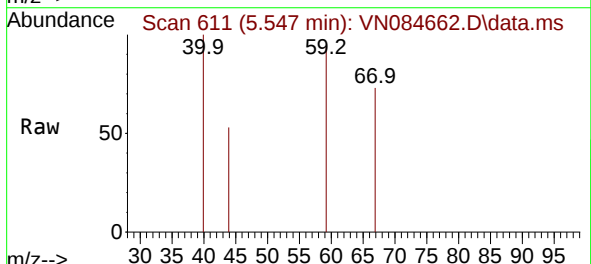


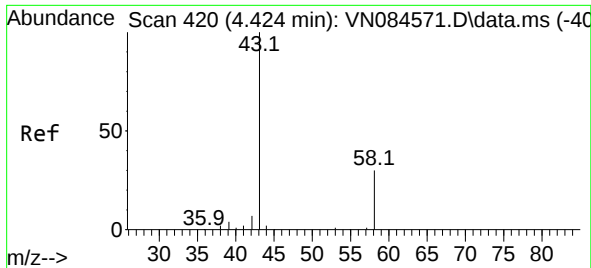
Tgt Ion: 64 Resp: 426
Ion Ratio Lower Upper
64 100
66 0.0 23.5 35.3#



#11
Tert butyl alcohol
Concen: 0.883 ug/l
RT: 5.547 min Scan# 611
Delta R.T. 0.024 min
Lab File: VN084662.D
Acq: 04 Nov 2024 17:05

Tgt Ion: 59 Resp: 310
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#





#16

Acetone

Concen: 40.973 ug/l

RT: 4.430 min Scan# 41

Delta R.T. 0.006 min

Lab File: VN084662.D

Acq: 04 Nov 2024 17:05

Instrument :

MSVOA_N

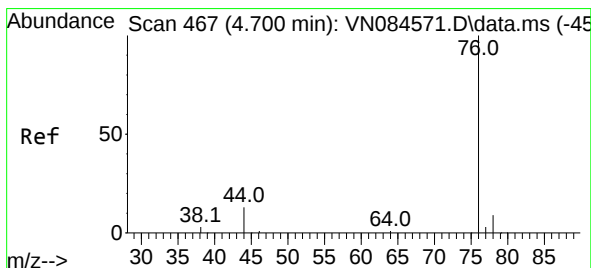
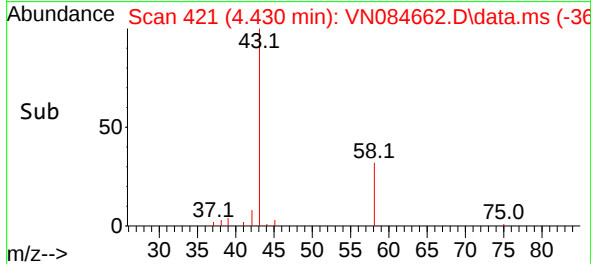
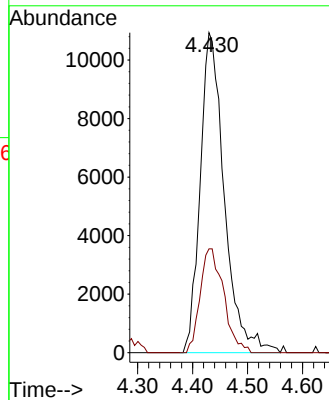
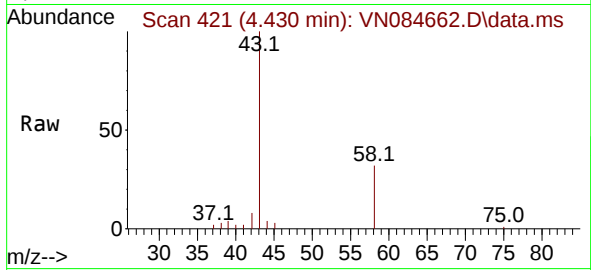
ClientSampleId :

Tgt Ion: 43 Resp: 33304

Ion Ratio Lower Upper

43 100

58 32.4 24.4 36.6



#17

Carbon Disulfide

Concen: 0.219 ug/l

RT: 4.695 min Scan# 466

Delta R.T. -0.017 min

Lab File: VN084662.D

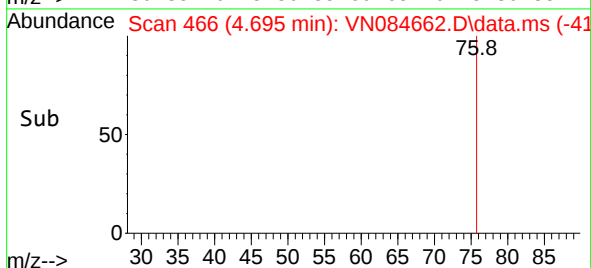
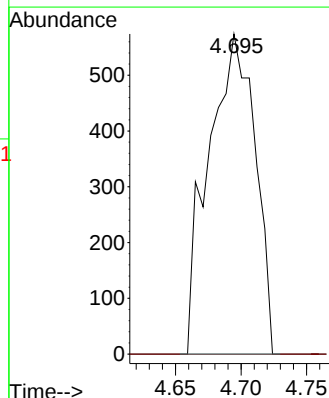
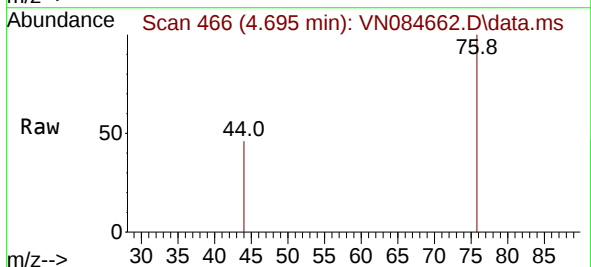
Acq: 04 Nov 2024 17:05

Tgt Ion: 76 Resp: 1411

Ion Ratio Lower Upper

76 100

78 0.0 7.3 10.9#





#18

Methyl Acetate

Concen: Below Cal

RT: 5.024 min Scan# 51

Delta R.T. 0.006 min

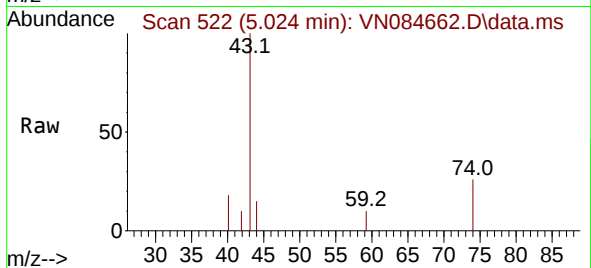
Lab File: VN084662.D

Acq: 04 Nov 2024 17:05

Instrument :

MSVOA_N

ClientSampleId :

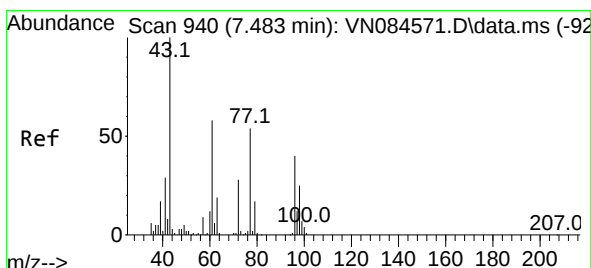
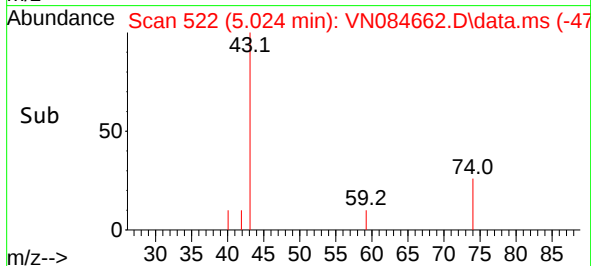
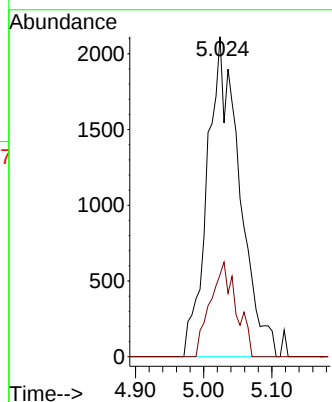


Tgt Ion: 43 Resp: 6989

Ion Ratio Lower Upper

43 100

74 23.6 19.2 28.8



#25

2-Butanone

Concen: 3.067 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN084662.D

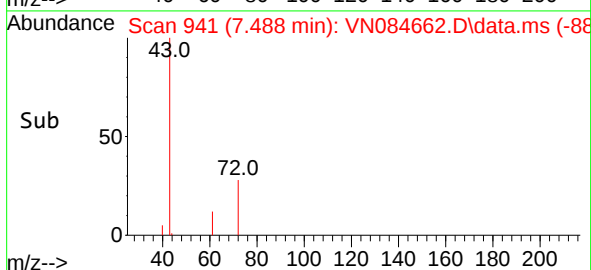
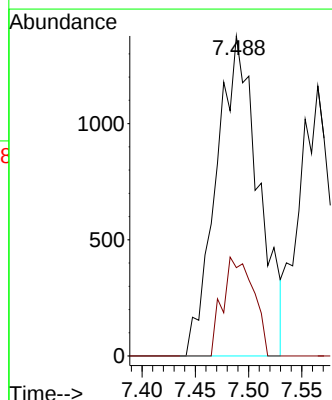
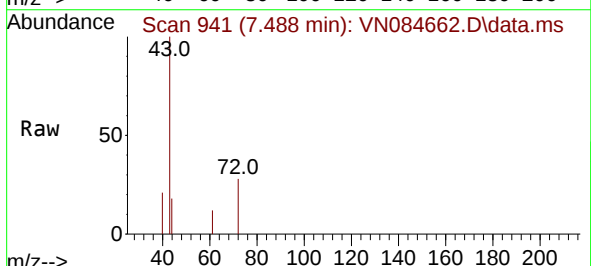
Acq: 04 Nov 2024 17:05

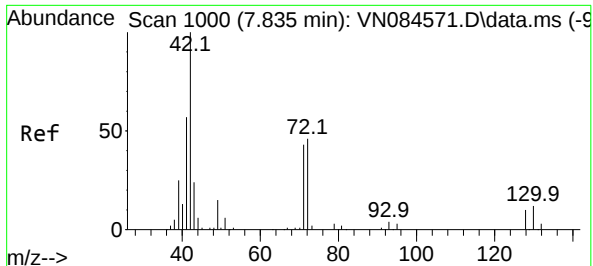
Tgt Ion: 43 Resp: 3805

Ion Ratio Lower Upper

43 100

72 27.6 21.4 32.2





#29

Tetrahydrofuran

Concen: 0.780 ug/l

RT: 7.841 min Scan# 1000

Delta R.T. 0.006 min

Lab File: VN084662.D

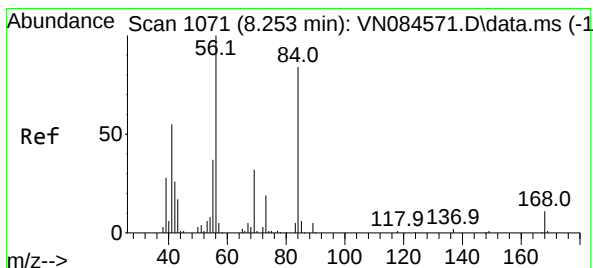
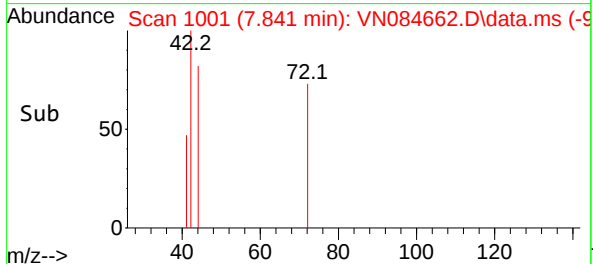
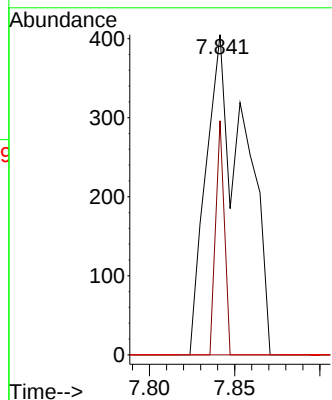
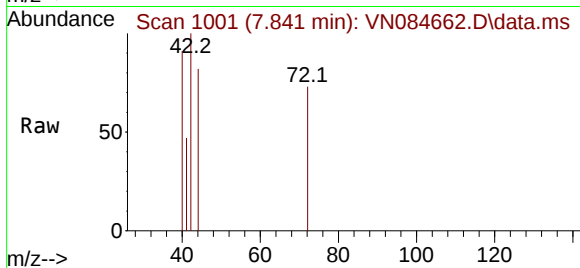
Acq: 04 Nov 2024 17:05

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:	42	Resp:	642
Ion	Ratio	Lower	Upper
42	100		
72	16.2	34.6	51.8#
71	0.0	32.2	48.4#



#31

Cyclohexane

Concen: 1.024 ug/l

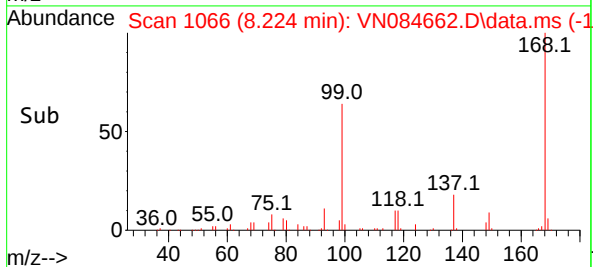
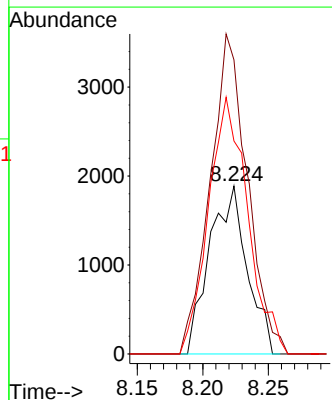
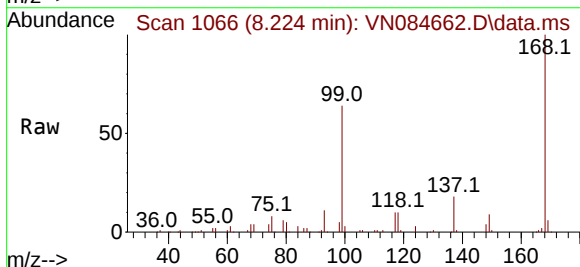
RT: 8.224 min Scan# 1066

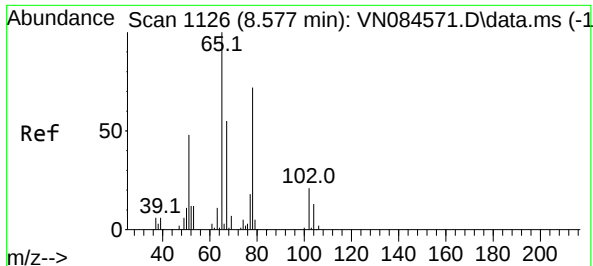
Delta R.T. -0.029 min

Lab File: VN084662.D

Acq: 04 Nov 2024 17:05

Tgt Ion:	56	Resp:	3761
Ion	Ratio	Lower	Upper
56	100		
69	175.1	23.8	35.6#
84	126.9	68.8	103.2#





#33

1,2-Dichloroethane-d4

Concen: 46.567 ug/l

RT: 8.571 min Scan# 1126

Delta R.T. -0.006 min

Lab File: VN084662.D

Acq: 04 Nov 2024 17:05

Instrument :

MSVOA_N

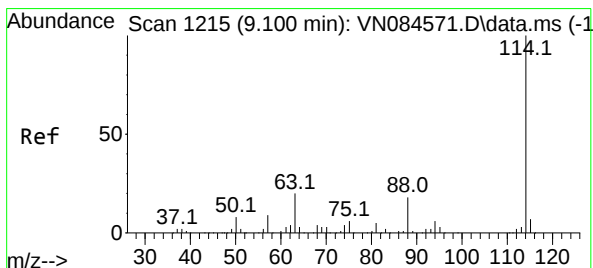
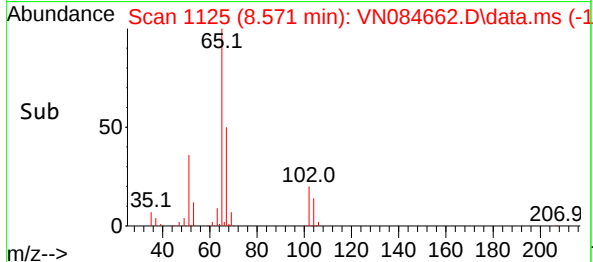
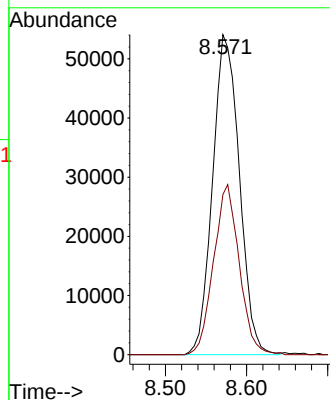
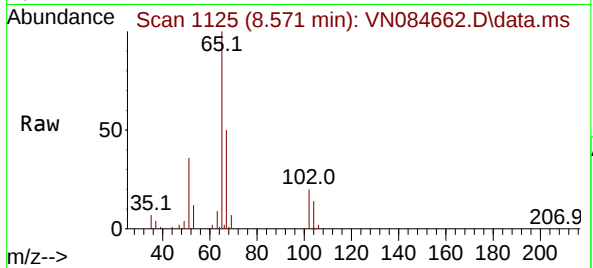
ClientSampleId :

Tgt Ion: 65 Resp: 123825

Ion Ratio Lower Upper

65 100

67 51.1 0.0 102.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN084662.D

Acq: 04 Nov 2024 17:05

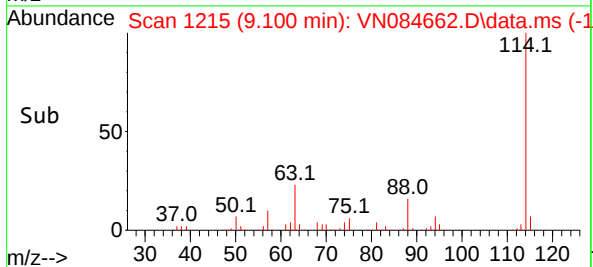
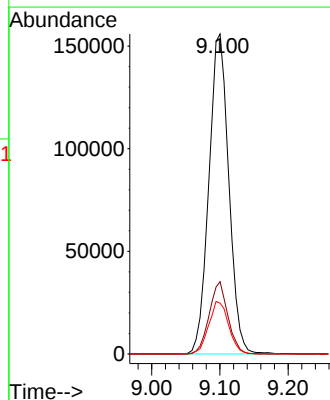
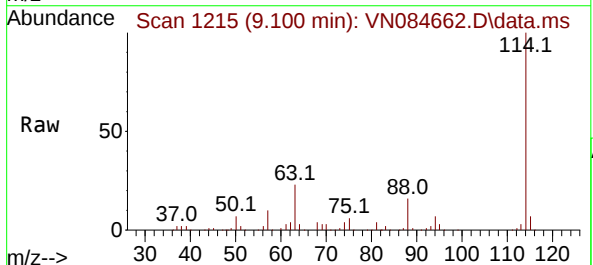
Tgt Ion: 114 Resp: 316954

Ion Ratio Lower Upper

114 100

63 22.6 0.0 43.8

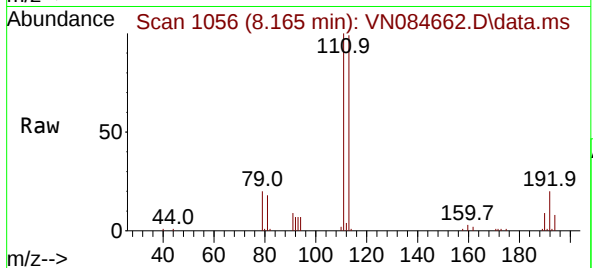
88 15.9 0.0 31.6



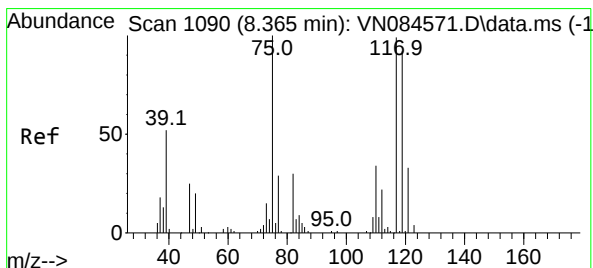
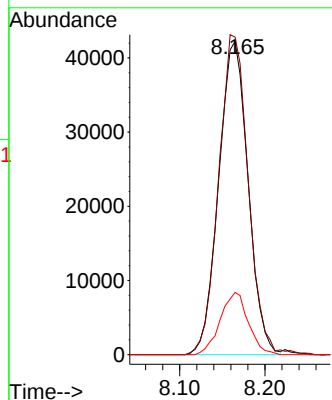
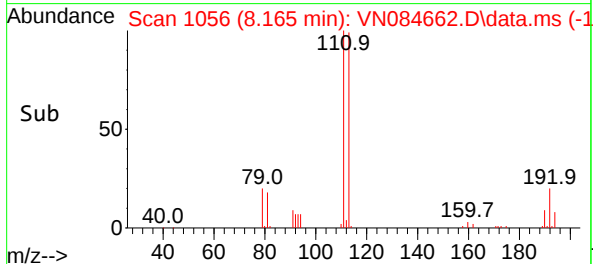


#35
Dibromofluoromethane
Concen: 47.237 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN084662.D
Acq: 04 Nov 2024 17:05

Instrument :
MSVOA_N
ClientSampleId :

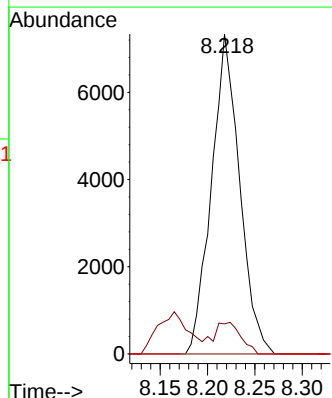
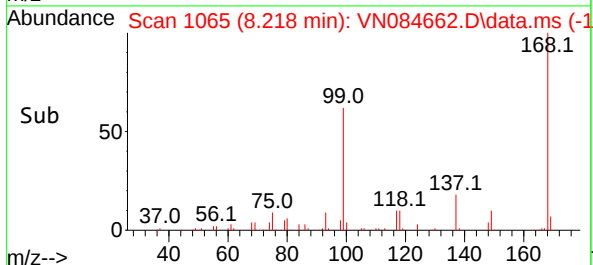
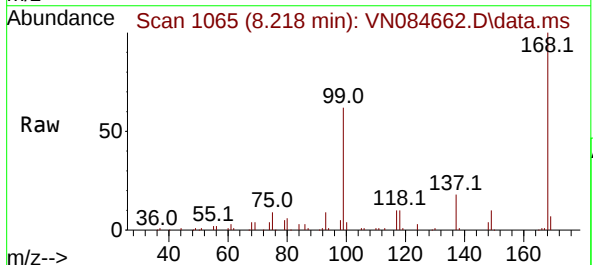


Tgt Ion:113 Resp: 101342
Ion Ratio Lower Upper
113 100
111 102.8 83.3 124.9
192 18.9 13.5 20.3



#36
1,1-Dichloropropene
Concen: 5.092 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.153 min
Lab File: VN084662.D
Acq: 04 Nov 2024 17:05

Tgt Ion: 75 Resp: 15151
Ion Ratio Lower Upper
75 100
110 9.7 16.9 50.7#
77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 0.855 ug/l

RT: 7.565 min Scan# 91

Delta R.T. 0.006 min

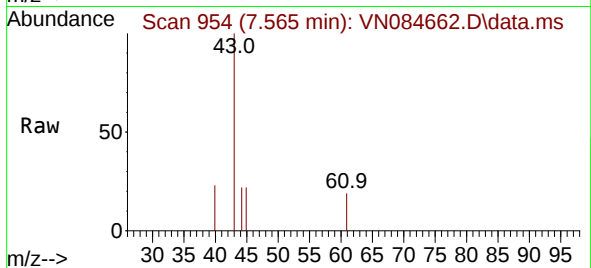
Lab File: VN084662.D

Acq: 04 Nov 2024 17:05

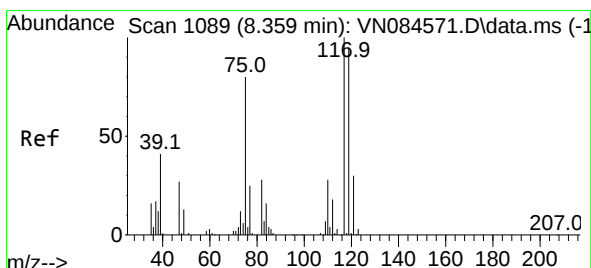
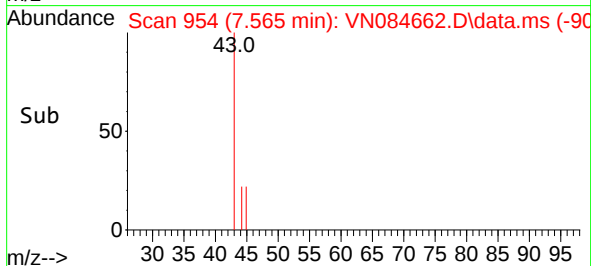
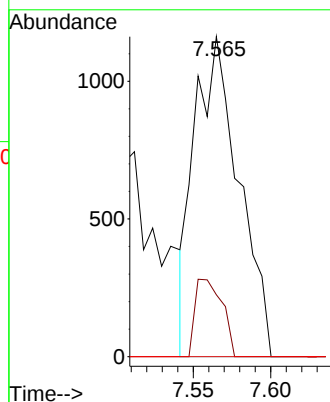
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	43	Resp:	2308
Ion	Ratio	Lower	Upper
43	100		
61	14.8	10.7	16.1
70	0.0	8.8	13.2#



#38

Carbon Tetrachloride

Concen: 5.834 ug/l

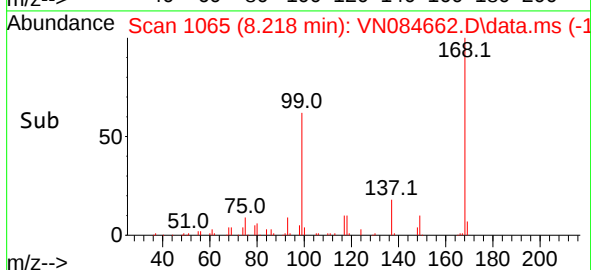
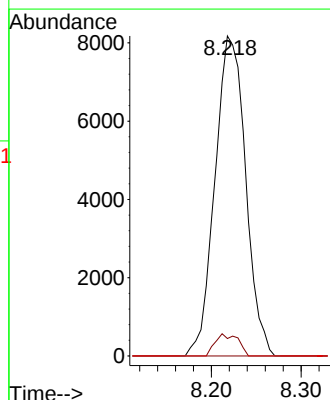
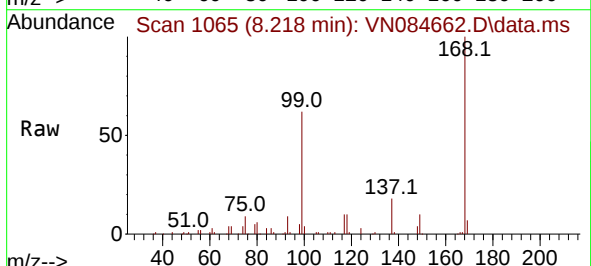
RT: 8.218 min Scan# 1065

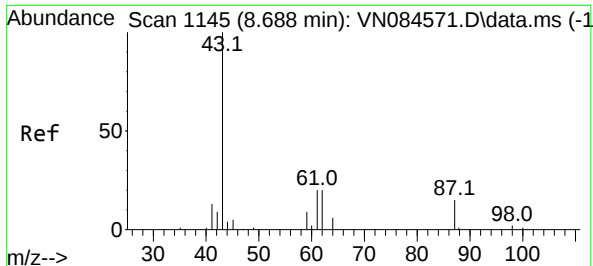
Delta R.T. -0.141 min

Lab File: VN084662.D

Acq: 04 Nov 2024 17:05

Tgt Ion:	117	Resp:	19401
Ion	Ratio	Lower	Upper
117	100		
119	5.4	78.7	118.1#
121	0.0	24.4	36.6#





#43

Isopropyl Acetate

Concen: 26.178 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

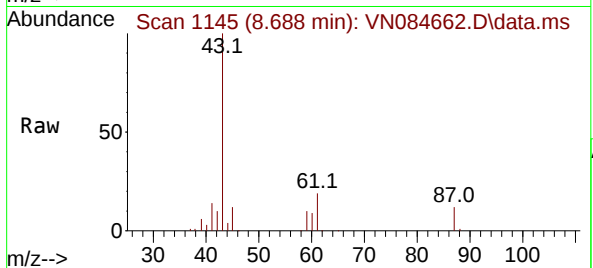
Lab File: VN084662.D

Acq: 04 Nov 2024 17:05

Instrument :

MSVOA_N

ClientSampleId :



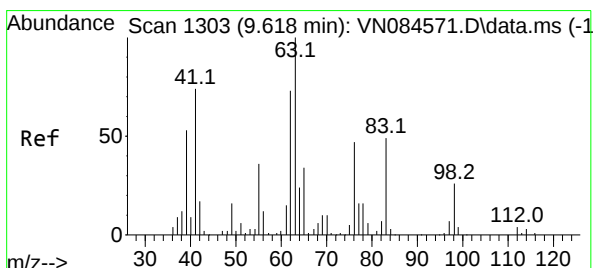
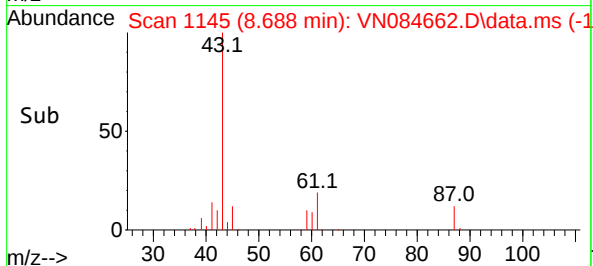
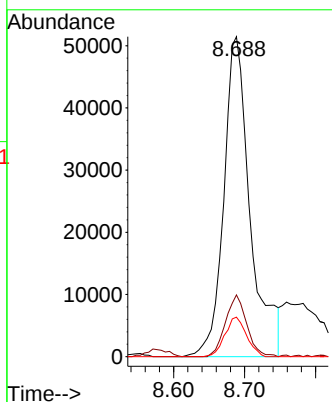
Tgt Ion: 43 Resp: 132848

Ion Ratio Lower Upper

43 100

61 15.6 20.4 30.6#

87 10.1 10.3 15.5#



#45

1,2-Dichloropropane

Concen: 0.435 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.123 min

Lab File: VN084662.D

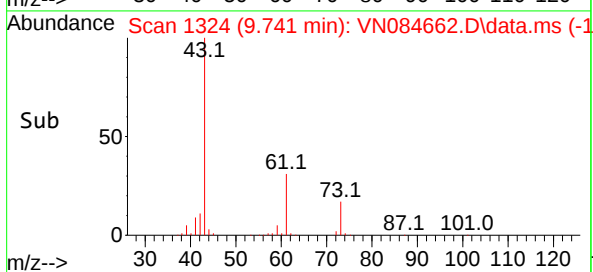
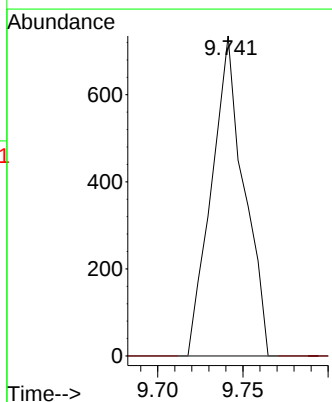
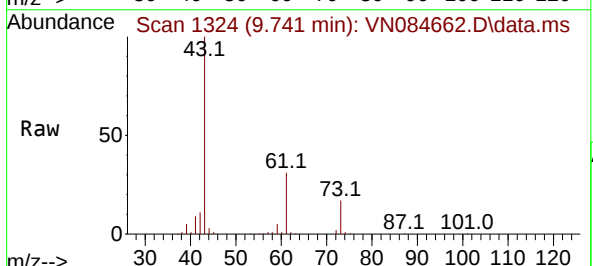
Acq: 04 Nov 2024 17:05

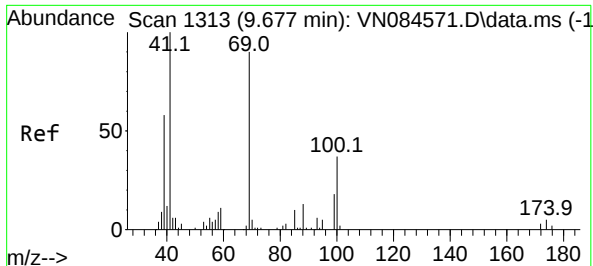
Tgt Ion: 63 Resp: 975

Ion Ratio Lower Upper

63 100

65 0.0 24.6 37.0#





#48

Methyl methacrylate

Concen: 1.373 ug/l

RT: 9.671 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN084662.D

Acq: 04 Nov 2024 17:05

Instrument :

MSVOA_N

ClientSampleId :

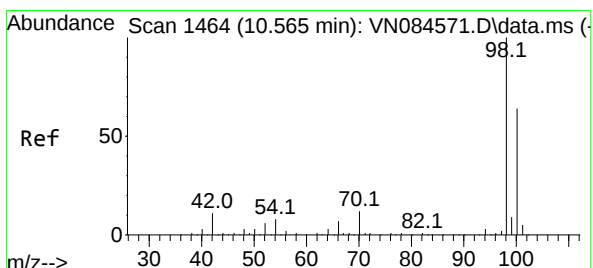
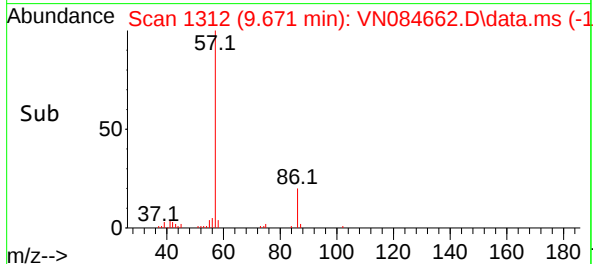
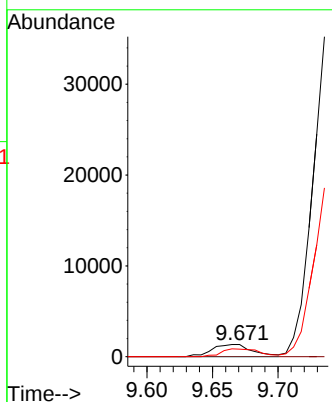
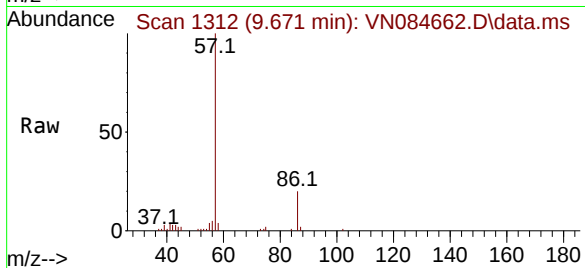
Tgt Ion: 41 Resp: 2884

Ion Ratio Lower Upper

41 100

69 0.0 67.1 100.7#

39 60.7 45.8 68.6



#50

Toluene-d8

Concen: 47.113 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN084662.D

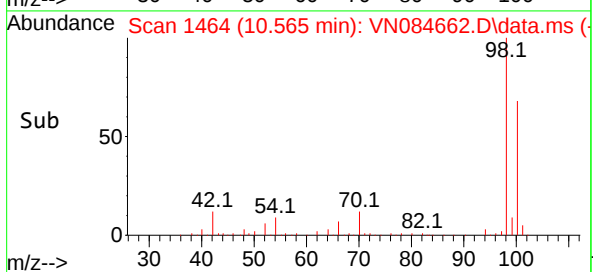
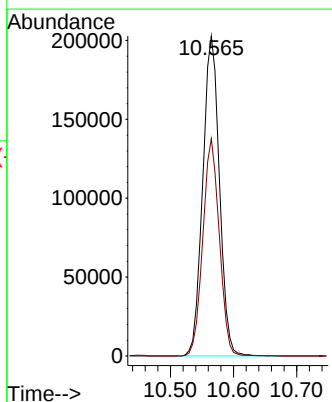
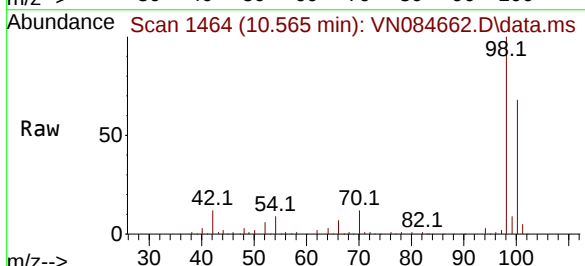
Acq: 04 Nov 2024 17:05

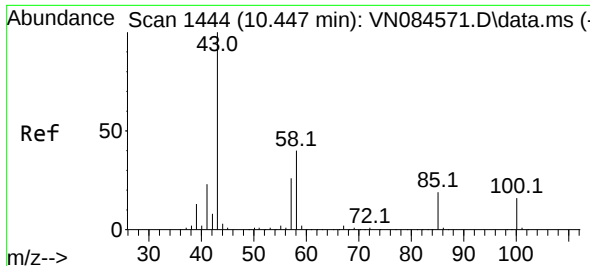
Tgt Ion: 98 Resp: 372332

Ion Ratio Lower Upper

98 100

100 67.0 52.7 79.1





#51

4-Methyl-2-Pentanone

Concen: 2.180 ug/l

RT: 10.441 min Scan# 1444

Delta R.T. -0.000 min

Lab File: VN084662.D

Acq: 04 Nov 2024 17:05

Instrument :

MSVOA_N

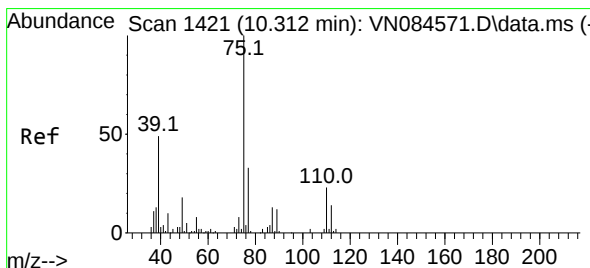
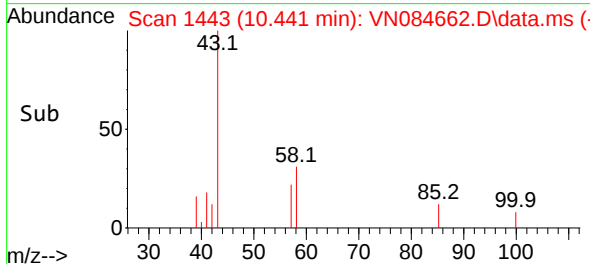
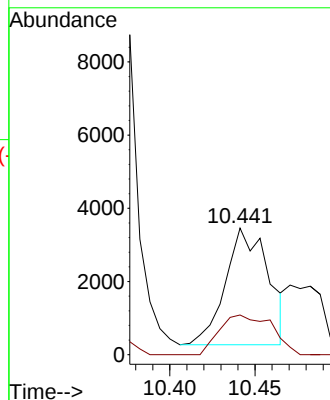
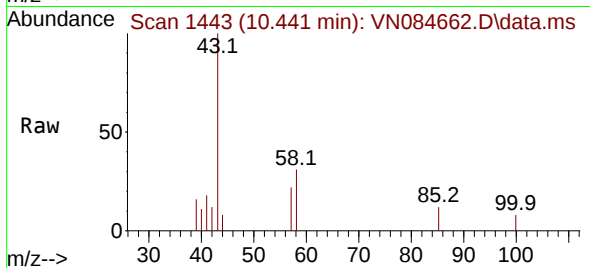
ClientSampleId :

Tgt Ion: 43 Resp: 5610

Ion Ratio Lower Upper

43 100

58 41.7 31.6 47.4



#54

cis-1,3-Dichloropropene

Concen: 10.236 ug/l

RT: 10.359 min Scan# 1429

Delta R.T. 0.047 min

Lab File: VN084662.D

Acq: 04 Nov 2024 17:05

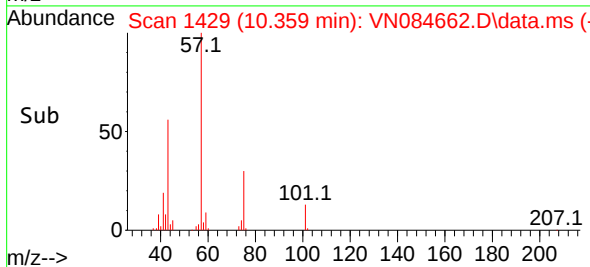
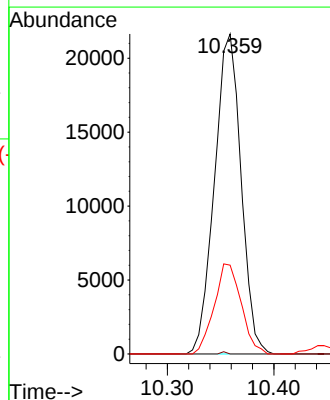
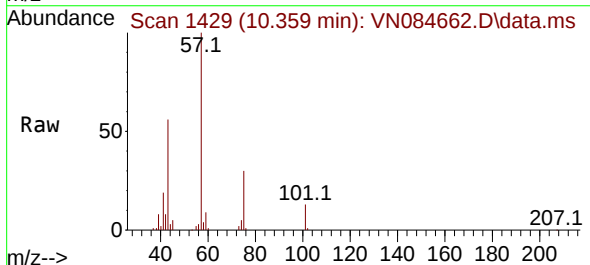
Tgt Ion: 75 Resp: 37389

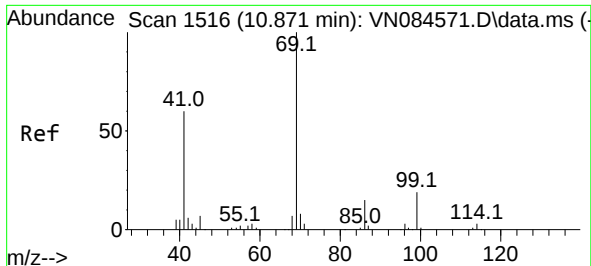
Ion Ratio Lower Upper

75 100

77 0.0 24.2 36.2#

39 27.8 38.7 58.1#





#56

Ethyl methacrylate

Concen: 0.352 ug/l

RT: 10.982 min Scan# 1535

Delta R.T. 0.112 min

Lab File: VN084662.D

Acq: 04 Nov 2024 17:05

Instrument :

MSVOA_N

ClientSampleId :

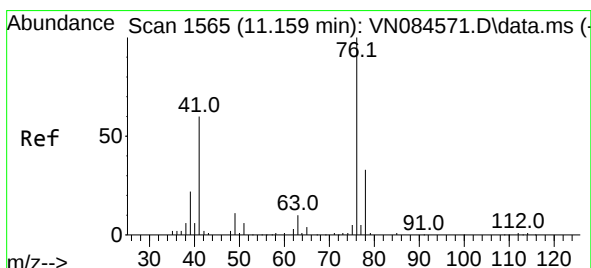
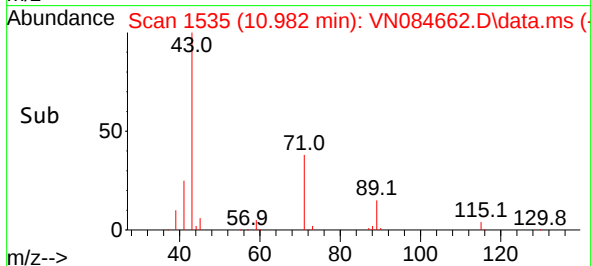
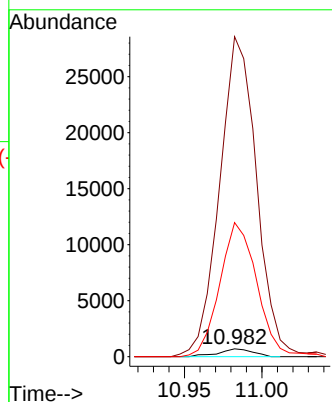
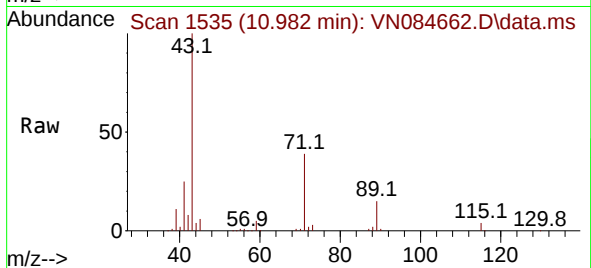
Tgt Ion: 69 Resp: 1072

Ion Ratio Lower Upper

69 100

41 4451.2 53.3 79.9#

39 1863.8 28.8 43.2#



#57

1,3-Dichloropropane

Concen: 1.229 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

Lab File: VN084662.D

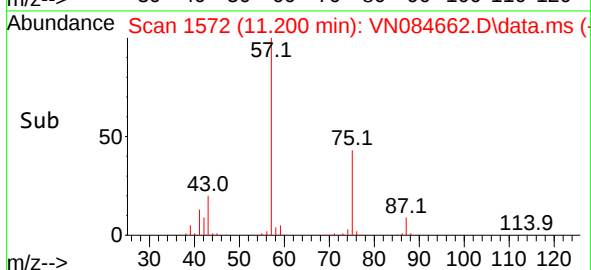
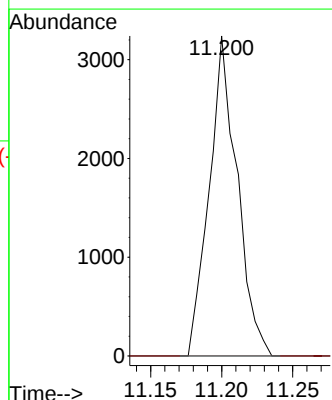
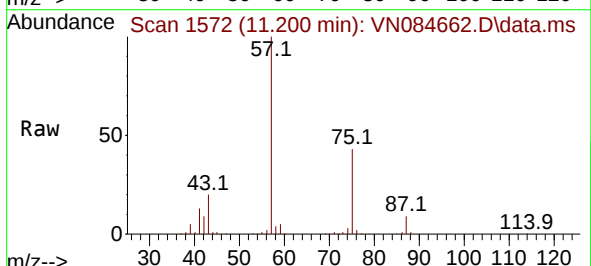
Acq: 04 Nov 2024 17:05

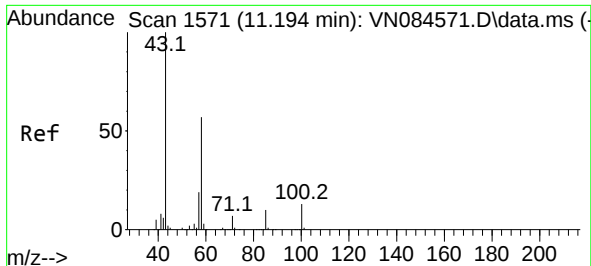
Tgt Ion: 76 Resp: 4439

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#

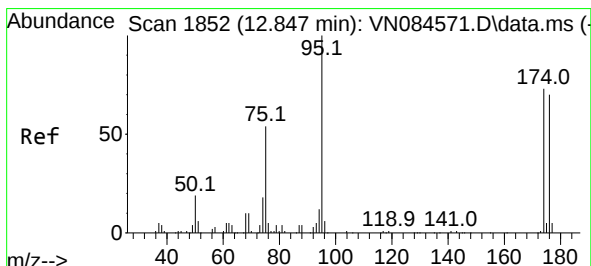
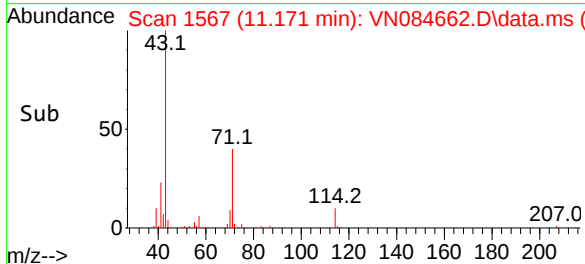
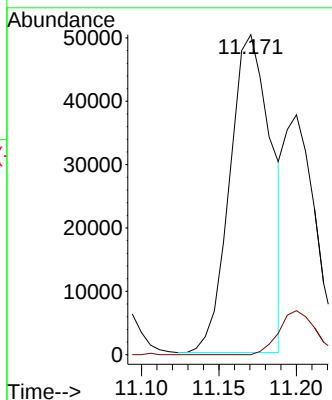
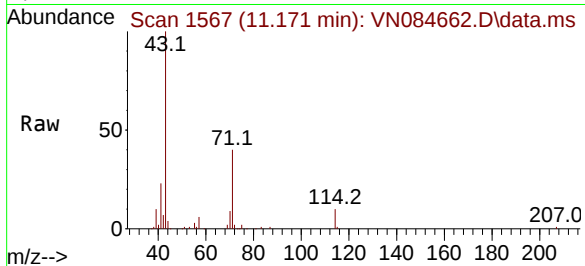




#59
2-Hexanone
Concen: 49.961 ug/l
RT: 11.171 min Scan# 111
Delta R.T. -0.024 min
Lab File: VN084662.D
Acq: 04 Nov 2024 17:05

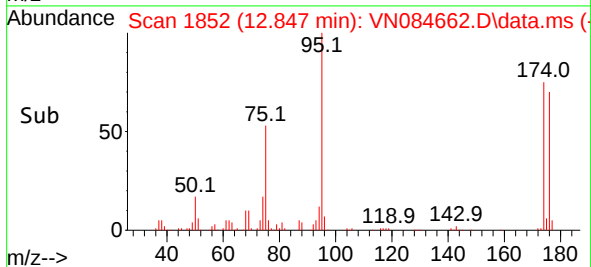
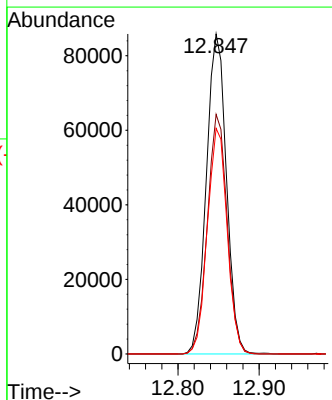
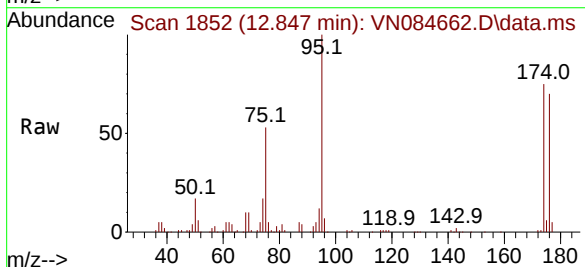
Instrument :
MSVOA_N
ClientSampleId :

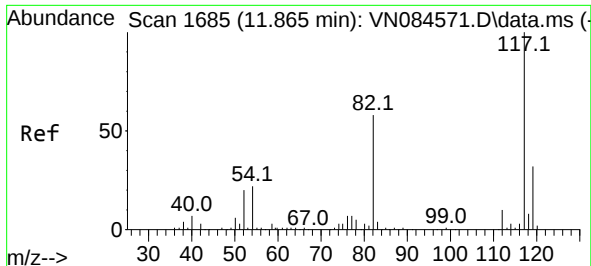
Tgt Ion: 43 Resp: 93587
Ion Ratio Lower Upper
43 100
58 0.0 27.3 81.8#



#62
4-Bromofluorobenzene
Concen: 49.843 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN084662.D
Acq: 04 Nov 2024 17:05

Tgt Ion: 95 Resp: 147217
Ion Ratio Lower Upper
95 100
174 73.8 0.0 145.2
176 69.6 0.0 140.0

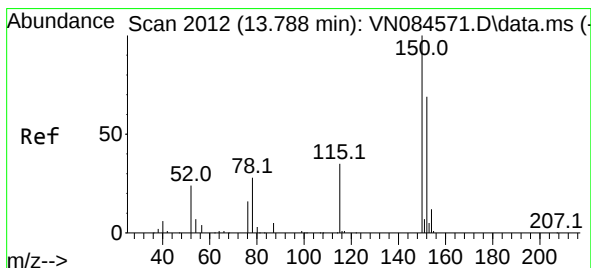
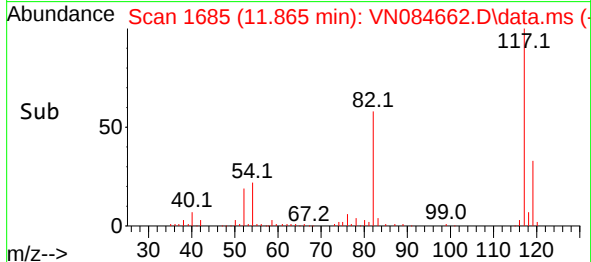
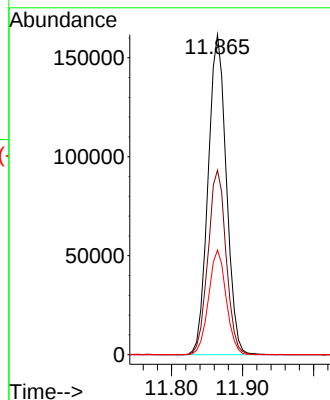
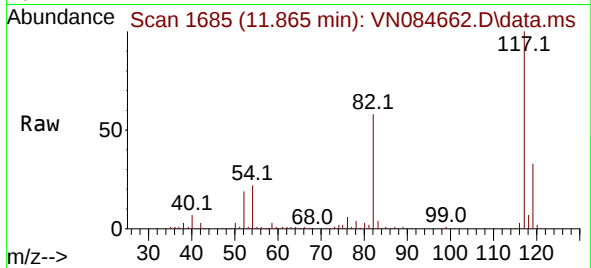




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN084662.D
Acq: 04 Nov 2024 17:05

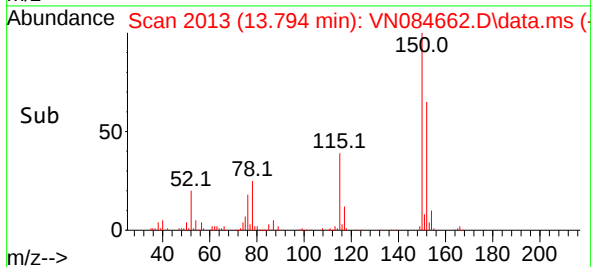
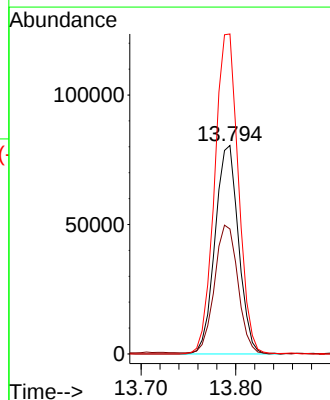
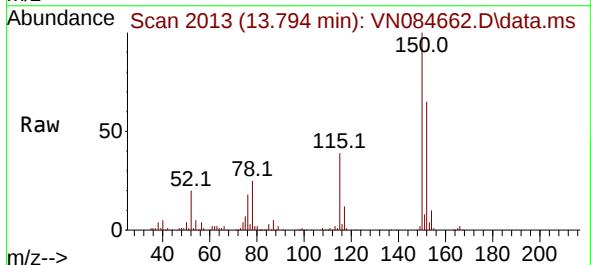
Instrument :
MSVOA_N
ClientSampleId :

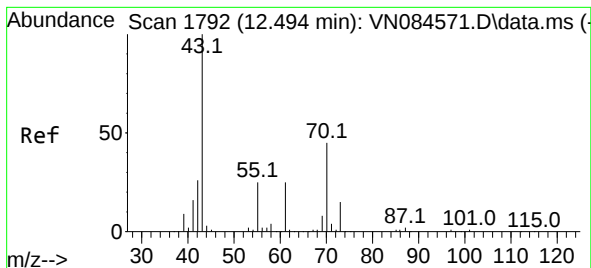
Tgt Ion:117 Resp: 288197
Ion Ratio Lower Upper
117 100
82 57.7 47.2 70.8
119 32.7 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.006 min
Lab File: VN084662.D
Acq: 04 Nov 2024 17:05

Tgt Ion:152 Resp: 138528
Ion Ratio Lower Upper
152 100
115 62.2 31.3 93.9
150 155.6 0.0 349.8





#74

N-amy1 acetate

Concen: 0.288 ug/l

RT: 12.476 min Scan# 1192

Delta R.T. -0.018 min

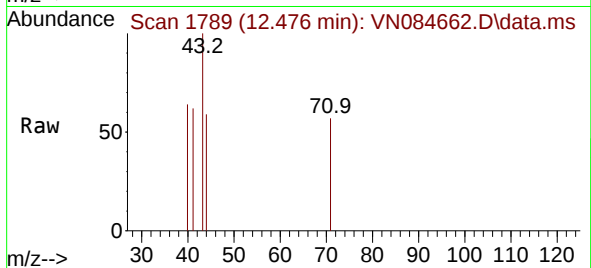
Lab File: VN084662.D

Acq: 04 Nov 2024 17:05

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 43 Resp: 1192

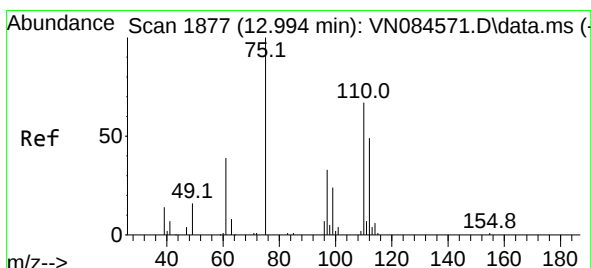
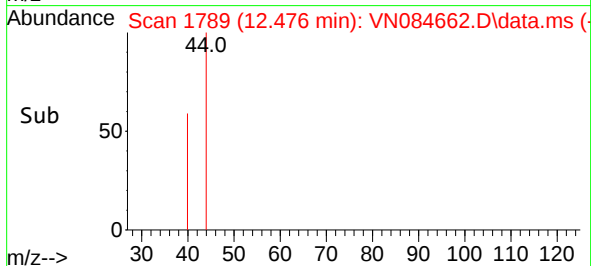
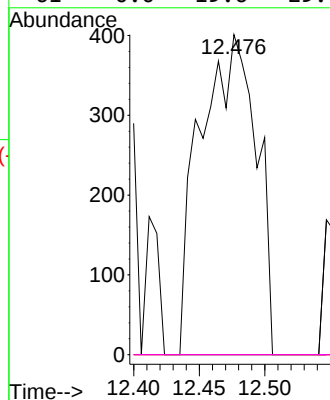
Ion Ratio Lower Upper

43 100

70 0.0 34.4 51.6#

55 0.0 19.6 29.4#

61 0.0 19.6 29.4#



#76

1,2,3-Trichloropropane

Concen: 27.514 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.141 min

Lab File: VN084662.D

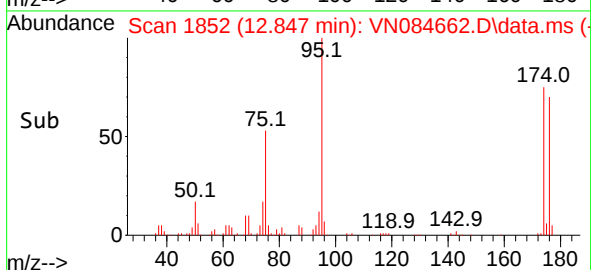
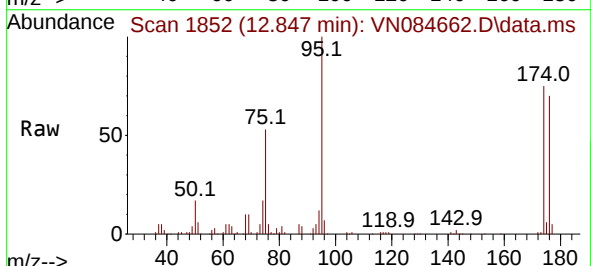
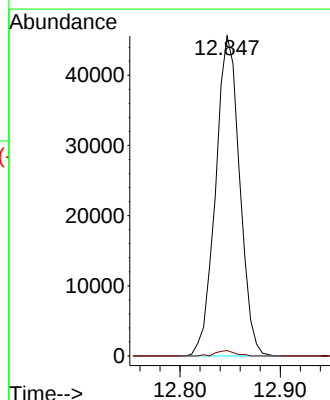
Acq: 04 Nov 2024 17:05

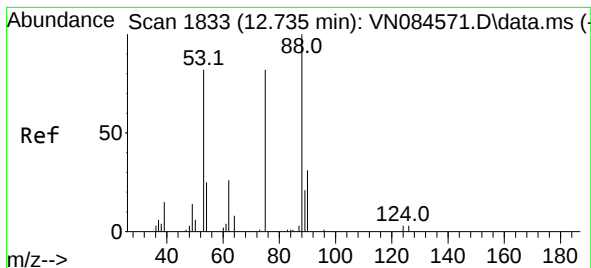
Tgt Ion: 75 Resp: 76189

Ion Ratio Lower Upper

75 100

77 1.4 96.9 290.7#

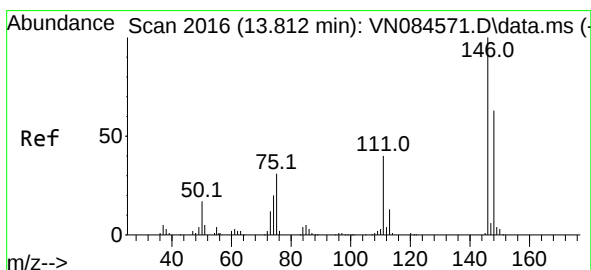
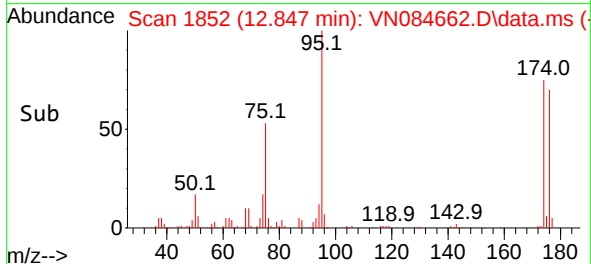
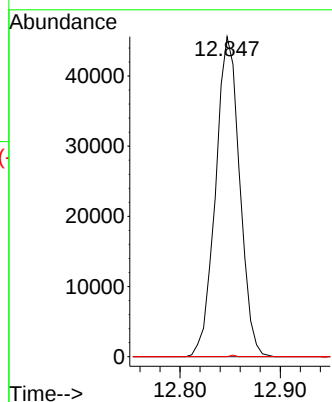
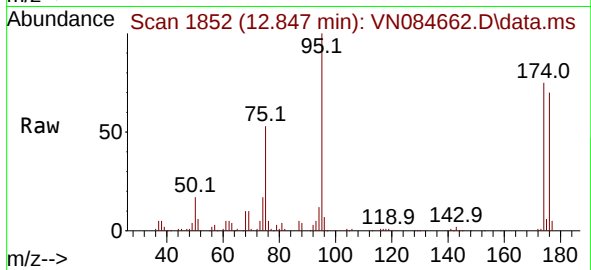




#81
trans-1,4-Dichloro-2-butene
Concen: 65.274 ug/l
RT: 12.847 min Scan# 1833
Delta R.T. 0.112 min
Lab File: VN084662.D
Acq: 04 Nov 2024 17:05

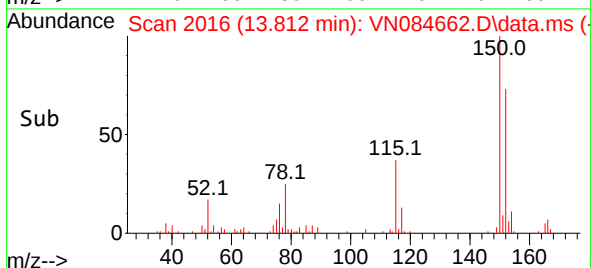
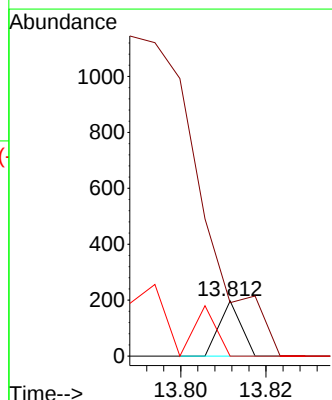
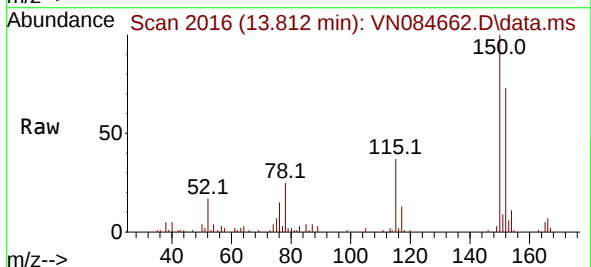
Instrument :
MSVOA_N
ClientSampleId :

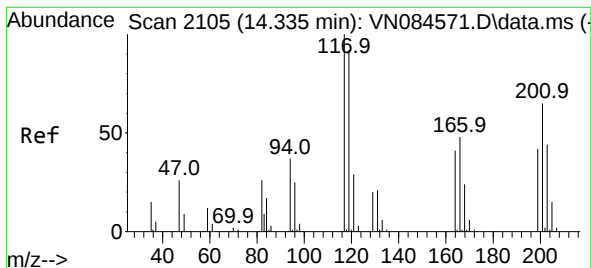
Tgt Ion: 75 Resp: 76189
Ion Ratio Lower Upper
75 100
53 0.0 78.0 117.0#
89 0.1 35.5 53.3#



#88
1,4-Dichlorobenzene
Concen: Below Cal
RT: 13.812 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN084662.D
Acq: 04 Nov 2024 17:05

Tgt Ion:146 Resp: 70
Ion Ratio Lower Upper
146 100
111 0.0 21.2 63.6#
148 0.0 31.9 95.9#

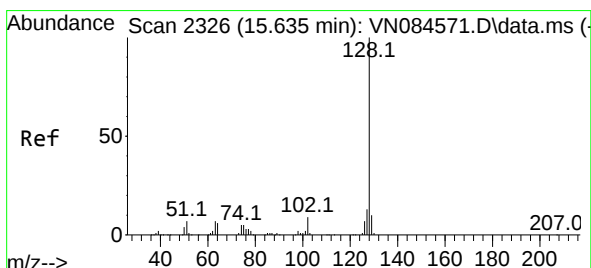
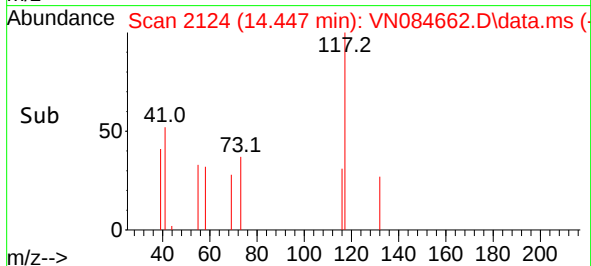
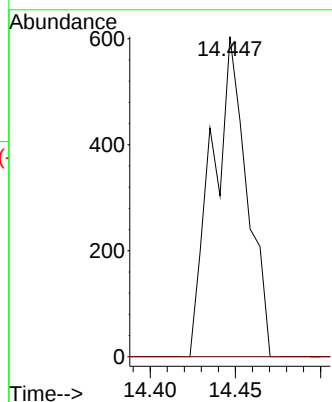
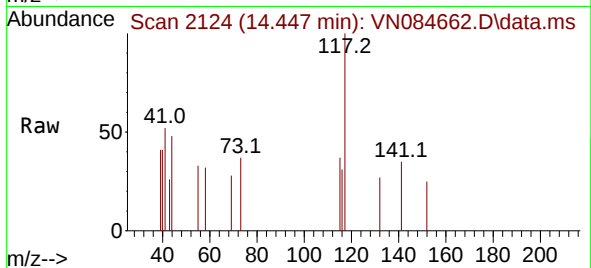




#90
Hexachloroethane
Concen: 0.499 ug/l
RT: 14.447 min Scan# 2105
Delta R.T. 0.118 min
Lab File: VN084662.D
Acq: 04 Nov 2024 17:05

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:117 Resp: 858
Ion Ratio Lower Upper
117 100
201 0.0 34.4 103.2#



#95
Naphthalene
Concen: 18.780 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.006 min
Lab File: VN084662.D
Acq: 04 Nov 2024 17:05

Tgt Ion:128 Resp: 150580
Ion Ratio Lower Upper
128 100
127 13.0 10.5 15.7
129 11.0 8.7 13.1

