

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112024\
 Data File : VN084972.D
 Acq On : 20 Nov 2024 16:34
 Operator : JC\MD
 Sample : P4893-08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

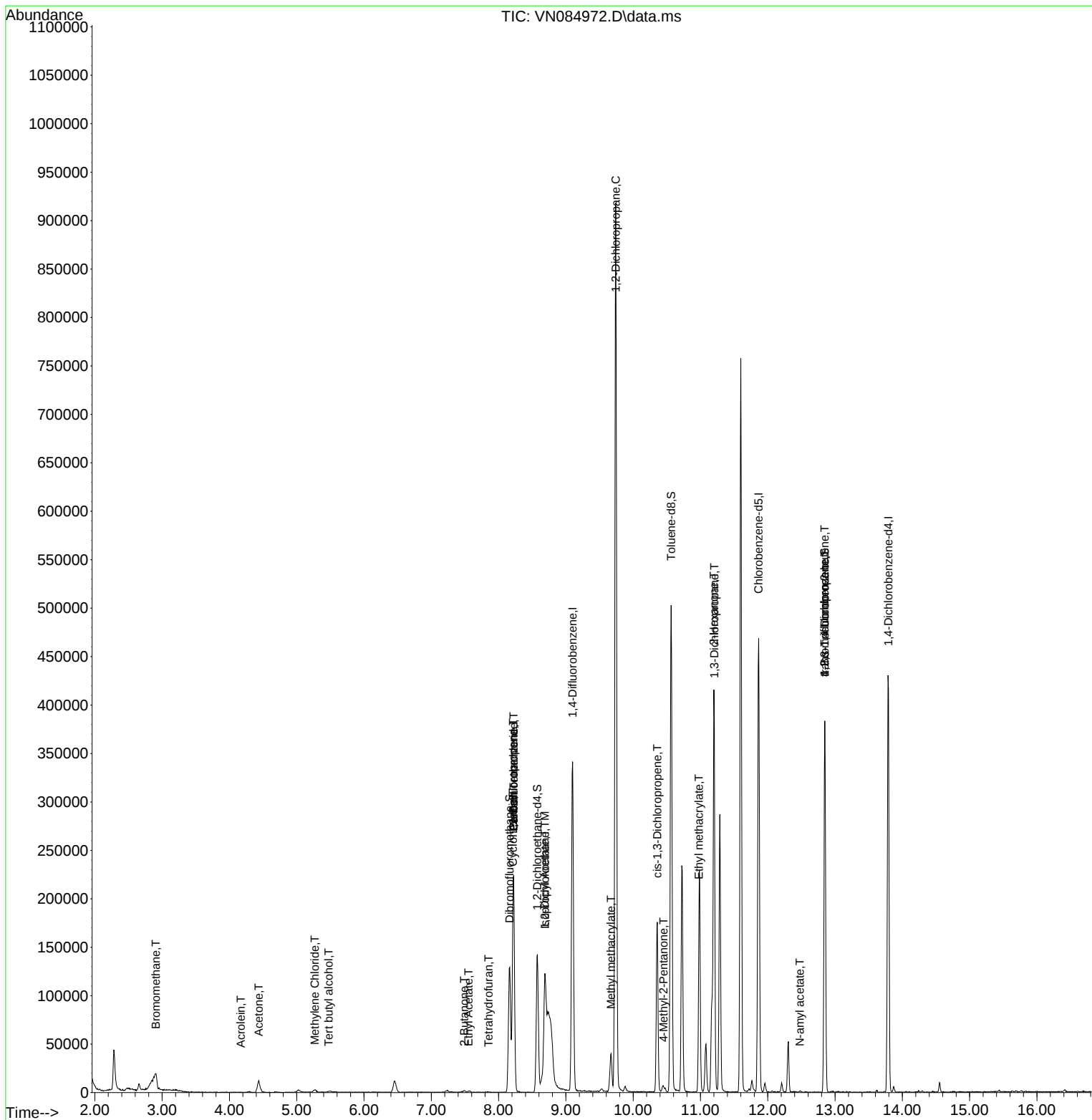
Quant Time: Nov 21 00:42:10 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:45:38 2024
 Response via : Initial Calibration

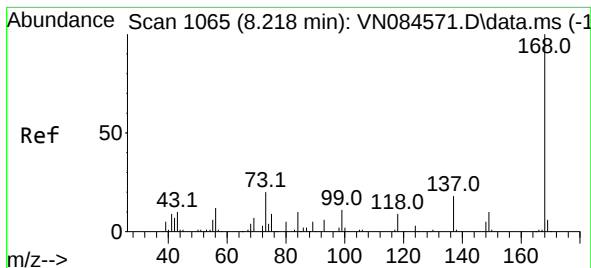
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.224	168	157220	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	293552	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	266271	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	115985	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	116478	51.294	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	102.580%
35) Dibromofluoromethane	8.165	113	95455	48.040	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	96.080%
50) Toluene-d8	10.565	98	349006	47.682	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	95.360%
62) 4-Bromofluorobenzene	12.847	95	133505	48.804	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	97.600%
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	390	Below Cal	#	41
5) Bromomethane	2.906	94	311	0.302	ug/l #	4
6) Chloroethane	3.130	64	376	Below Cal	#	45
11) Tert butyl alcohol	5.477	59	516	1.722	ug/l #	73
13) Acrolein	4.171	56	82	0.274	ug/l #	14
16) Acetone	4.436	43	20859	29.282	ug/l	97
18) Methyl Acetate	5.036	43	4867	Below Cal		92
20) Methylene Chloride	5.271	84	1961	0.982	ug/l #	82
25) 2-Butanone	7.488	43	3360	3.172	ug/l	96
29) Tetrahydrofuran	7.853	42	420	0.598	ug/l #	34
31) Cyclohexane	8.212	56	3619	1.154	ug/l #	34
36) 1,1-Dichloropropene	8.218	75	13594	4.933	ug/l #	48
37) Ethyl Acetate	7.553	43	2575	1.030	ug/l #	73
38) Carbon Tetrachloride	8.224	117	18190	5.906	ug/l #	16
42) 1,2-Dichloroethane	8.688	62	728	0.254	ug/l #	75
43) Isopropyl Acetate	8.688	43	177014	38.093	ug/l #	77
45) 1,2-Dichloropropane	9.741	63	1117	0.538	ug/l #	44
48) Methyl methacrylate	9.671	41	2923	1.502	ug/l #	42
51) 4-Methyl-2-Pentanone	10.453	43	7992	3.353	ug/l #	74
54) cis-1,3-Dichloropropene	10.359	75	31701	9.371	ug/l #	64
56) Ethyl methacrylate	10.976	69	1166	0.413	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	4294	1.283	ug/l #	42
59) 2-Hexanone	11.200	43	49290	28.411	ug/l #	56
74) N-amyl acetate	12.476	43	1119	0.323	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	69681	30.055	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	69681	71.301	ug/l #	11
88) 1,4-Dichlorobenzene	13.811	146	522	Below Cal	#	1

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

Quant Time: Nov 21 00:42:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.000 min

Lab File: VN084972.D

Acq: 20 Nov 2024 16:34

Instrument :

MSVOA_N

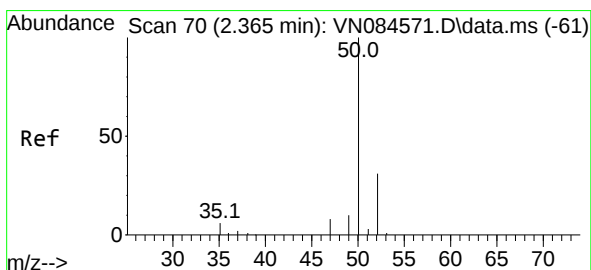
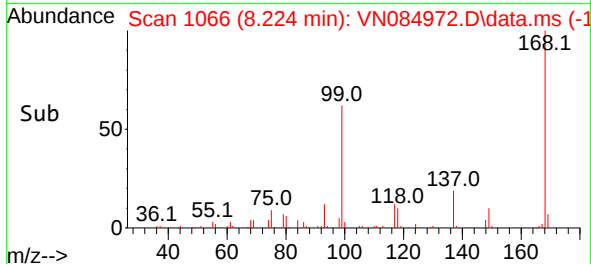
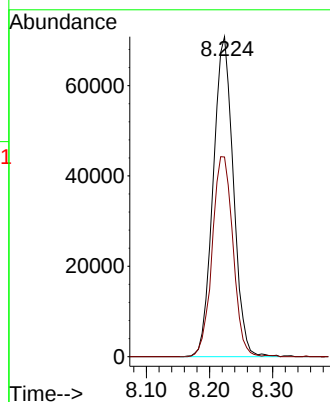
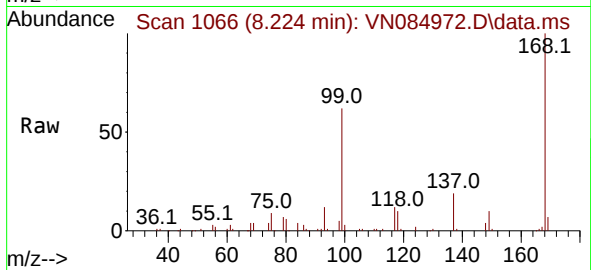
ClientSampleId :

Tgt Ion:168 Resp: 157220

Ion Ratio Lower Upper

168 100

99 62.4 54.2 81.2



#3

Chloromethane

Concen: Below Cal

RT: 2.359 min Scan# 69

Delta R.T. 0.000 min

Lab File: VN084972.D

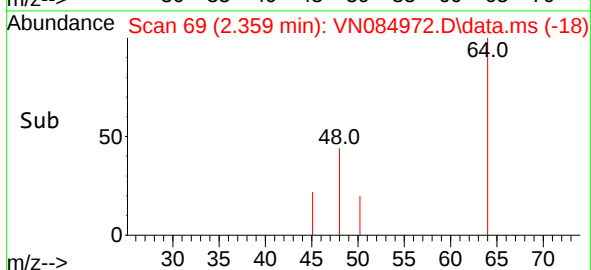
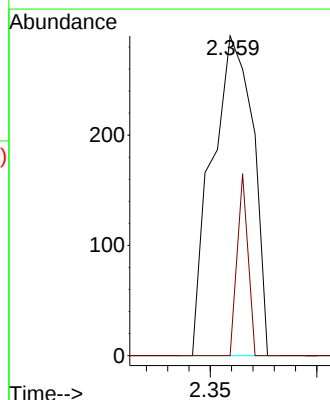
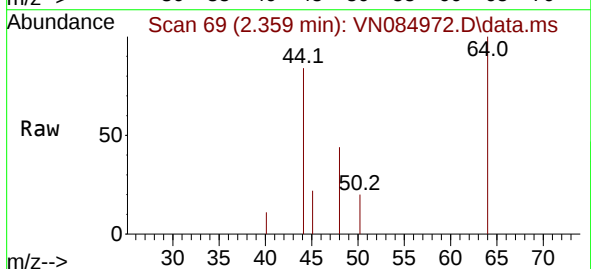
Acq: 20 Nov 2024 16:34

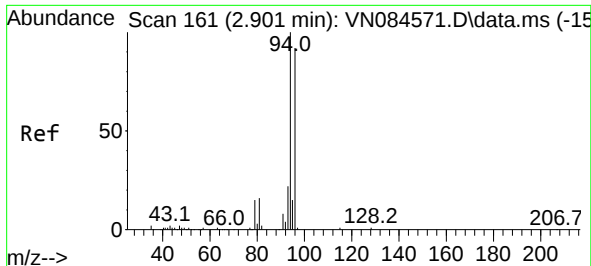
Tgt Ion: 50 Resp: 390

Ion Ratio Lower Upper

50 100

52 0.0 26.8 40.2#

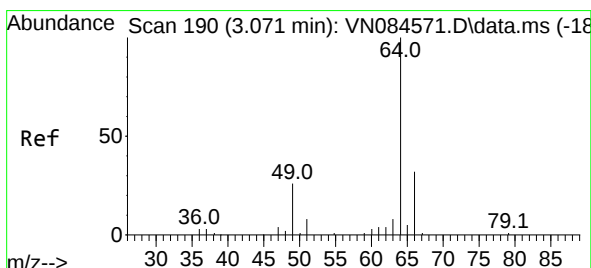
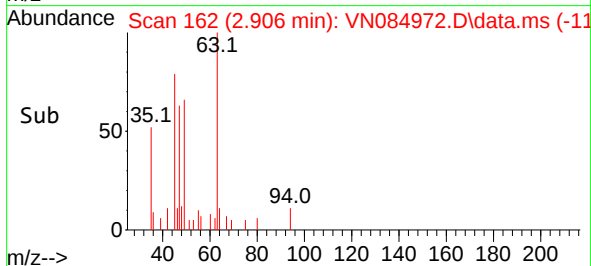
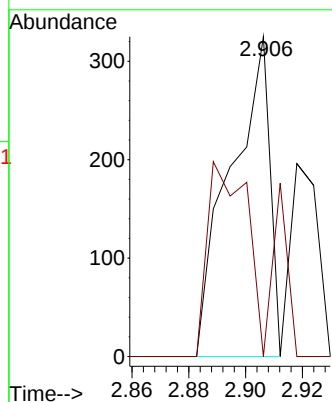
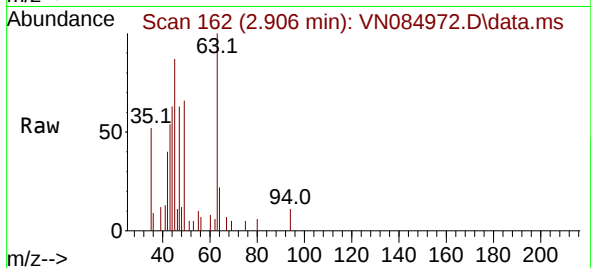




#5
Bromomethane
Concen: 0.302 ug/l
RT: 2.906 min Scan# 11
Delta R.T. -0.047 min
Lab File: VN084972.D
Acq: 20 Nov 2024 16:34

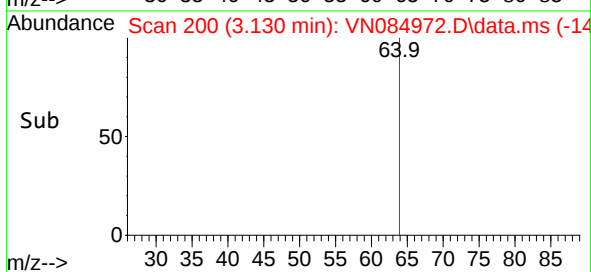
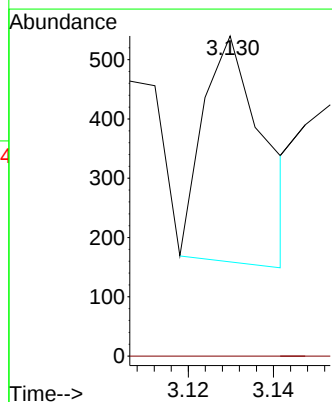
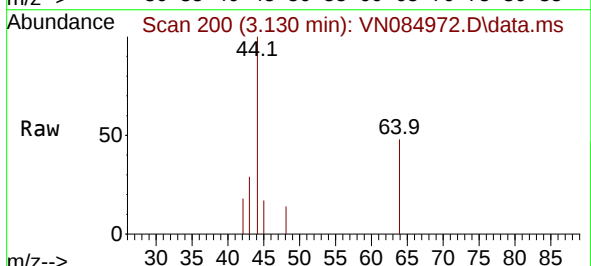
Instrument :
MSVOA_N
ClientSampleId :

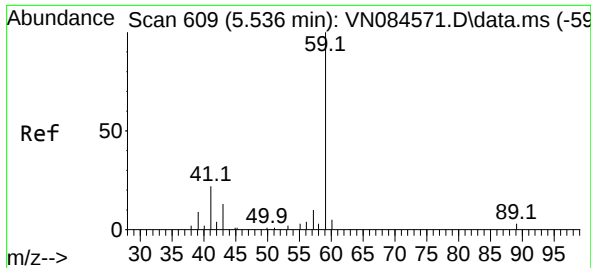
Tgt Ion: 94 Resp: 311
Ion Ratio Lower Upper
94 100
96 0.0 72.9 109.3#



#6
Chloroethane
Concen: Below Cal
RT: 3.130 min Scan# 200
Delta R.T. 0.012 min
Lab File: VN084972.D
Acq: 20 Nov 2024 16:34

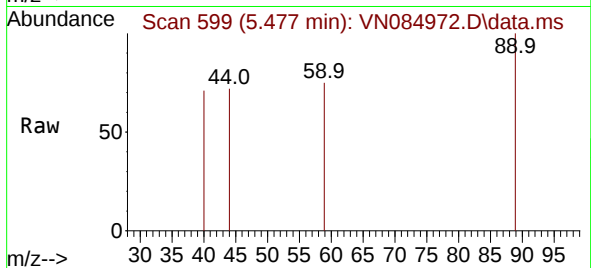
Tgt Ion: 64 Resp: 376
Ion Ratio Lower Upper
64 100
66 0.0 23.5 35.3#



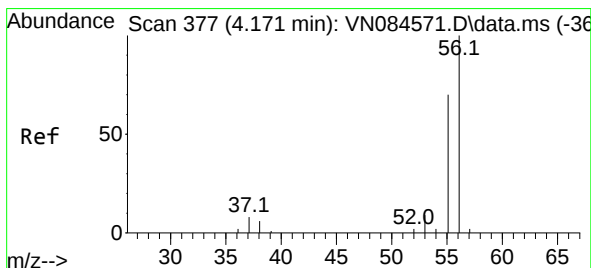
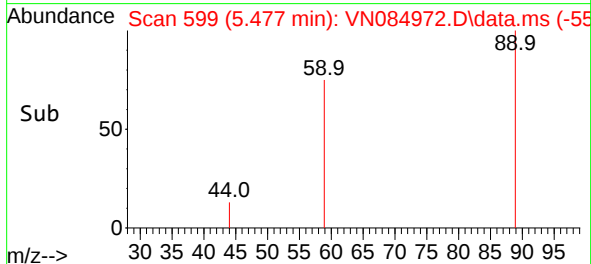
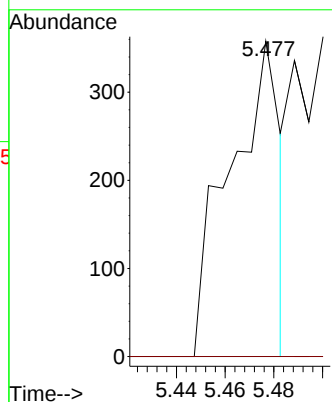


#11
Tert butyl alcohol
Concen: 1.722 ug/l
RT: 5.477 min Scan# 599
Delta R.T. -0.047 min
Lab File: VN084972.D
Acq: 20 Nov 2024 16:34

Instrument :
MSVOA_N
ClientSampleId :

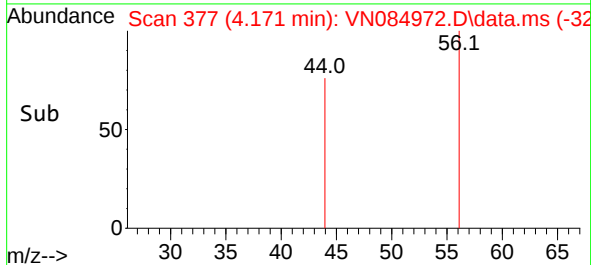
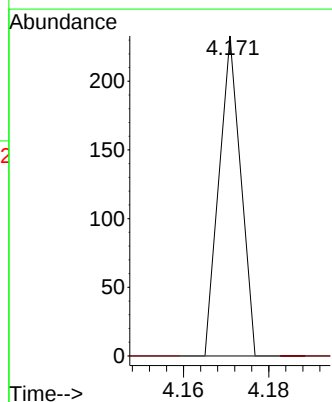
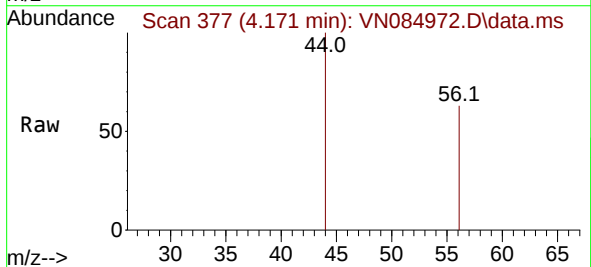


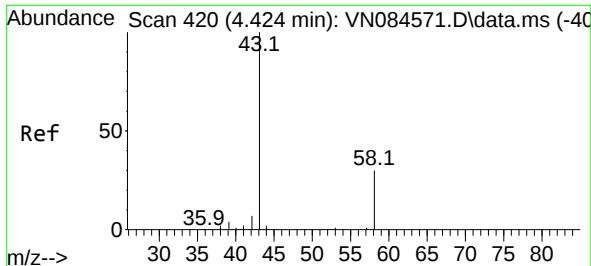
Tgt Ion: 59 Resp: 516
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



#13
Acrolein
Concen: 0.274 ug/l
RT: 4.171 min Scan# 377
Delta R.T. -0.006 min
Lab File: VN084972.D
Acq: 20 Nov 2024 16:34

Tgt Ion: 56 Resp: 82
Ion Ratio Lower Upper
56 100
55 0.0 57.2 85.8#

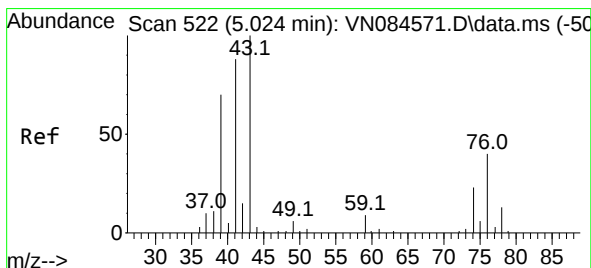
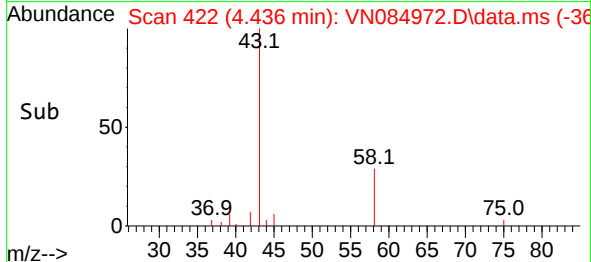
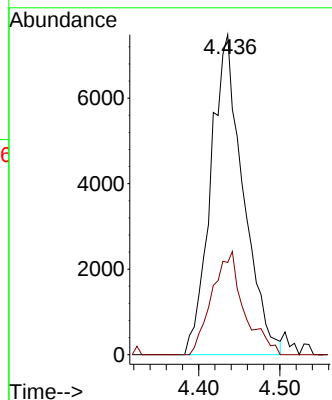
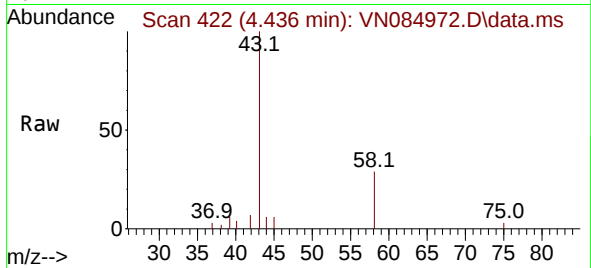




#16
Acetone
Concen: 29.282 ug/l
RT: 4.436 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN084972.D
Acq: 20 Nov 2024 16:34

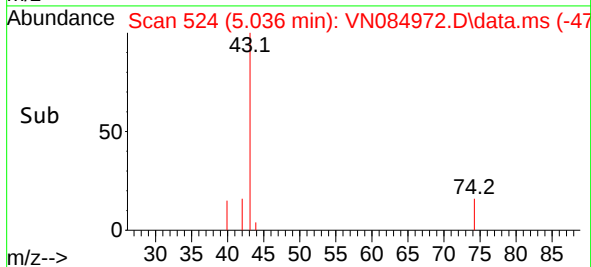
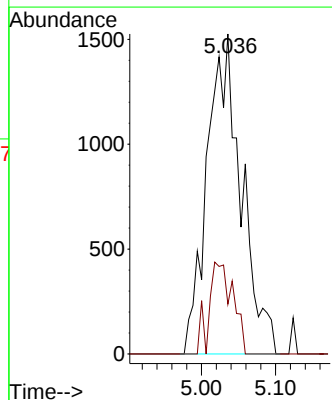
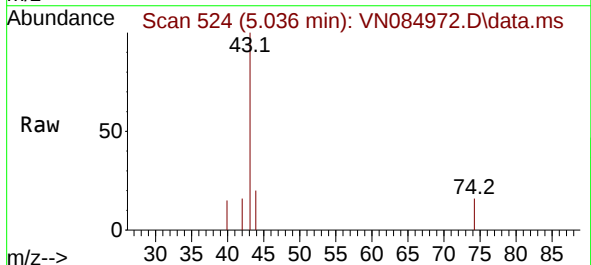
Instrument :
MSVOA_N
ClientSampleId :

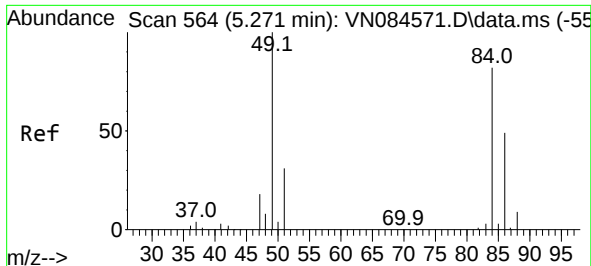
Tgt Ion: 43 Resp: 20859
Ion Ratio Lower Upper
43 100
58 28.8 24.4 36.6



#18
Methyl Acetate
Concen: Below Cal
RT: 5.036 min Scan# 524
Delta R.T. 0.018 min
Lab File: VN084972.D
Acq: 20 Nov 2024 16:34

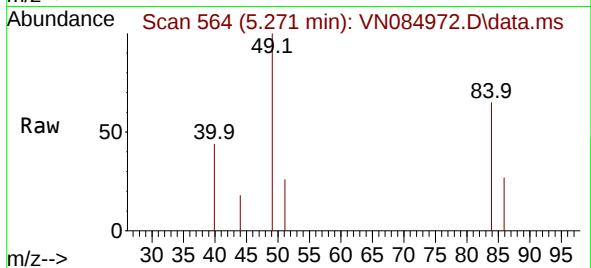
Tgt Ion: 43 Resp: 4867
Ion Ratio Lower Upper
43 100
74 20.1 19.2 28.8





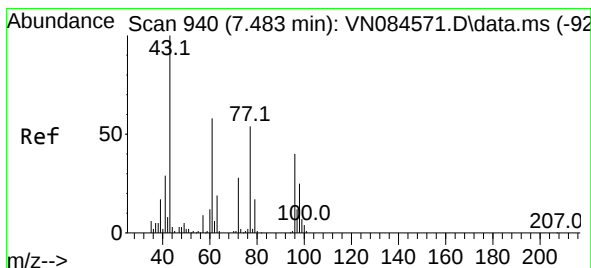
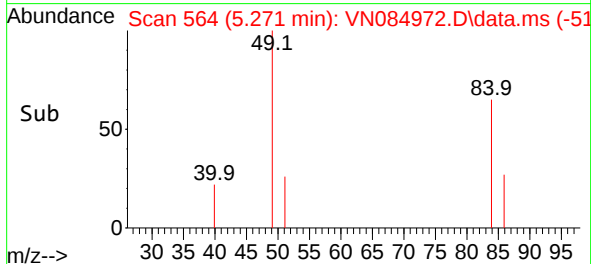
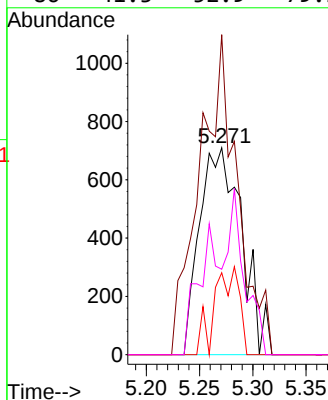
#20
Methylene Chloride
Concen: 0.982 ug/l
RT: 5.271 min Scan# 50
Delta R.T. -0.006 min
Lab File: VN084972.D
Acq: 20 Nov 2024 16:34

Instrument :
MSVOA_N
ClientSampled :



Tgt Ion: 84 Resp: 1961

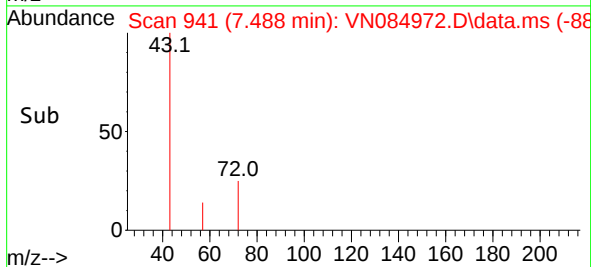
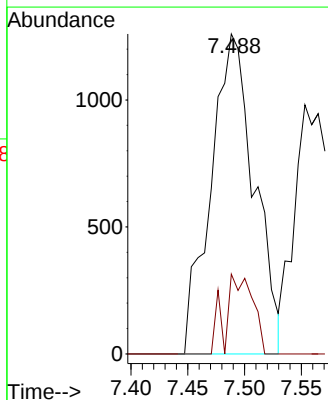
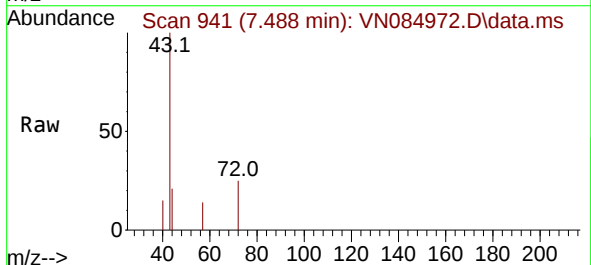
Ion	Ratio	Lower	Upper
84	100		
49	154.6	107.2	160.8
51	39.6	31.8	47.8
86	41.3	52.9	79.3

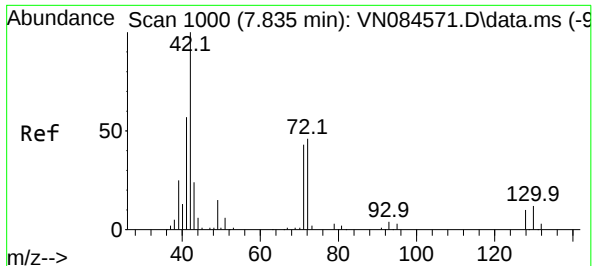


#25
2-Butanone
Concen: 3.172 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN084972.D
Acq: 20 Nov 2024 16:34

Tgt Ion: 43 Resp: 3360

Ion	Ratio	Lower	Upper
43	100		
72	24.9	21.4	32.2





#29

Tetrahydrofuran

Concen: 0.598 ug/l

RT: 7.853 min Scan# 1064

Delta R.T. 0.018 min

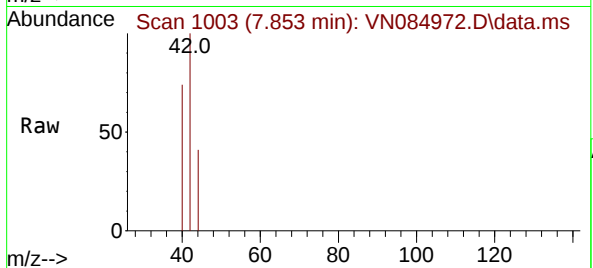
Lab File: VN084972.D

Acq: 20 Nov 2024 16:34

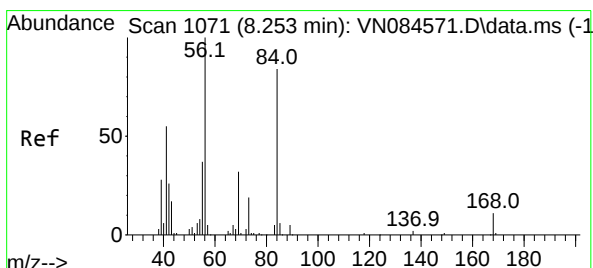
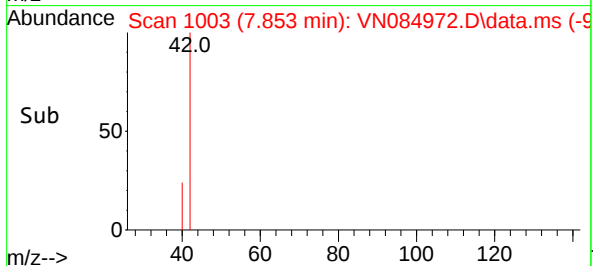
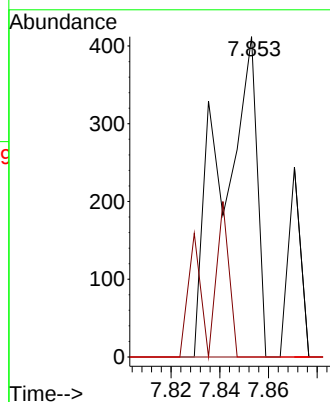
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	42	Resp:	420
Ion	Ratio	Lower	Upper
42	100		
72	0.0	34.6	51.8#
71	0.0	32.2	48.4#



#31

Cyclohexane

Concen: 1.154 ug/l

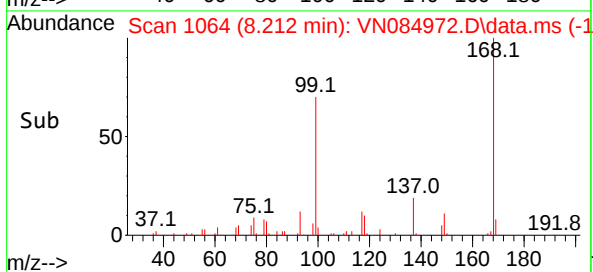
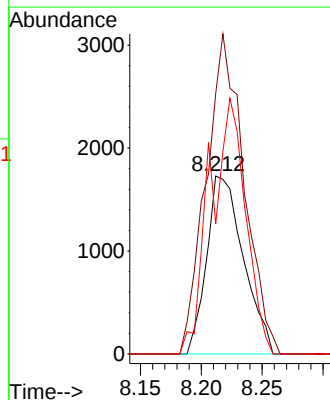
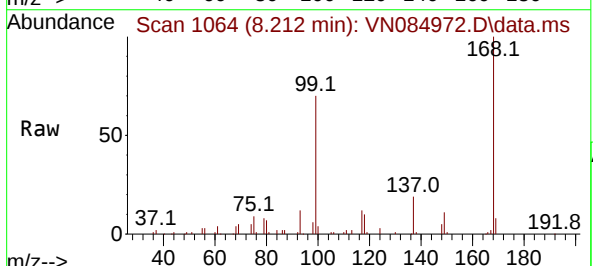
RT: 8.212 min Scan# 1064

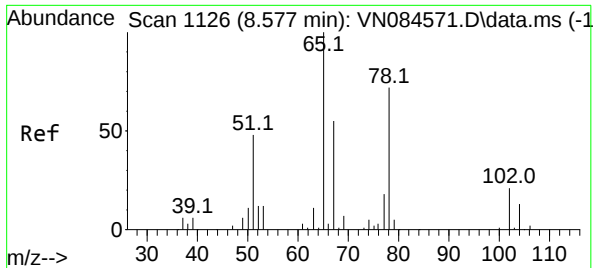
Delta R.T. -0.041 min

Lab File: VN084972.D

Acq: 20 Nov 2024 16:34

Tgt Ion:	56	Resp:	3619
Ion	Ratio	Lower	Upper
56	100		
69	146.5	23.8	35.6#
84	73.0	68.8	103.2

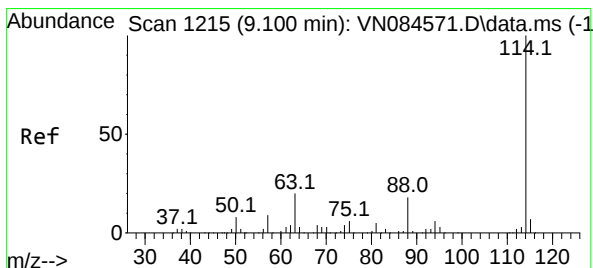
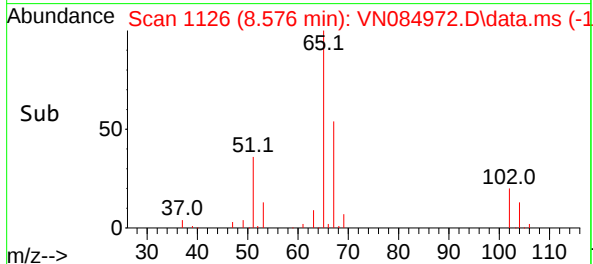
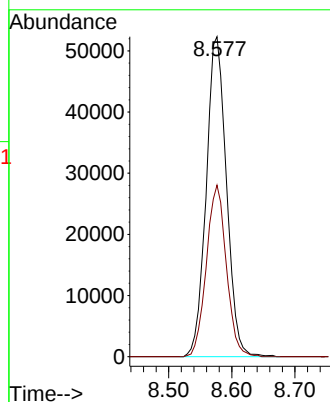
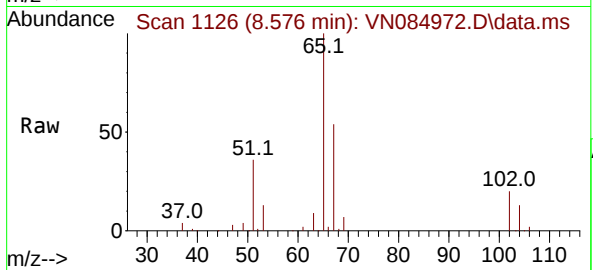




#33
 1,2-Dichloroethane-d4
 Concen: 51.294 ug/l
 RT: 8.576 min Scan# 1126
 Delta R.T. -0.001 min
 Lab File: VN084972.D
 Acq: 20 Nov 2024 16:34

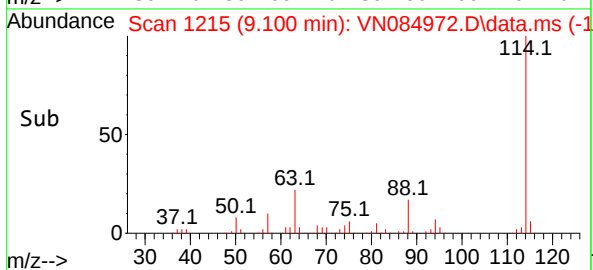
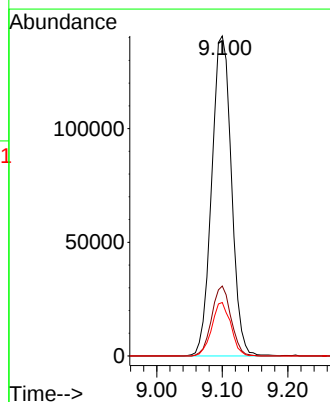
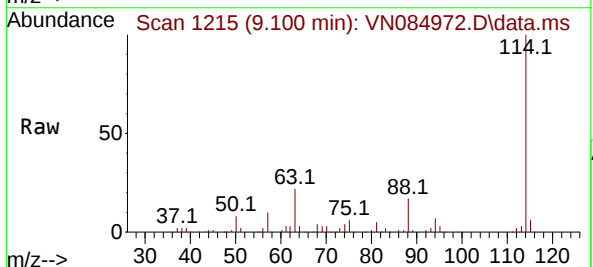
Instrument :
 MSVOA_N
 ClientSampleId :

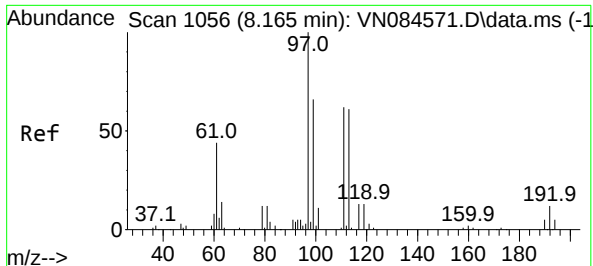
Tgt Ion: 65 Resp: 116478
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 102.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 9.100 min Scan# 1215
 Delta R.T. 0.000 min
 Lab File: VN084972.D
 Acq: 20 Nov 2024 16:34

Tgt Ion: 114 Resp: 293552
 Ion Ratio Lower Upper
 114 100
 63 21.9 0.0 43.8
 88 16.7 0.0 31.6





#35

Dibromofluoromethane

Concen: 48.040 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN084972.D

Acq: 20 Nov 2024 16:34

Instrument :

MSVOA_N

ClientSampleId :

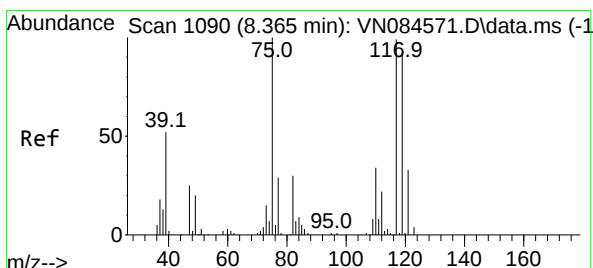
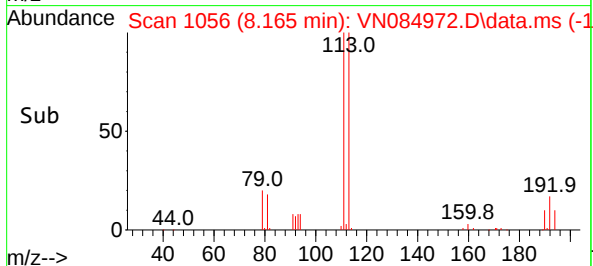
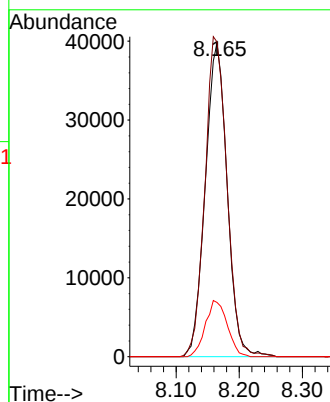
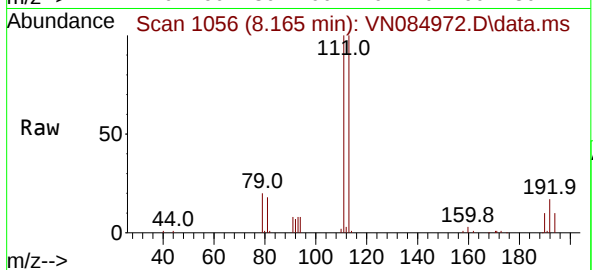
Tgt Ion:113 Resp: 95455

Ion Ratio Lower Upper

113 100

111 102.8 83.3 124.9

192 17.9 13.5 20.3



#36

1,1-Dichloropropene

Concen: 4.933 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.153 min

Lab File: VN084972.D

Acq: 20 Nov 2024 16:34

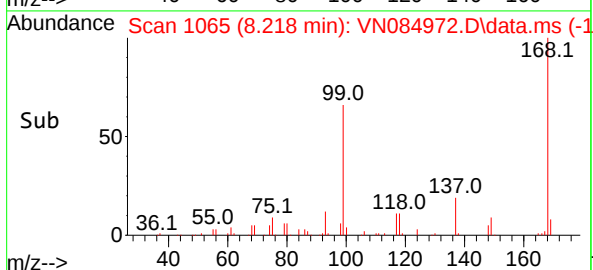
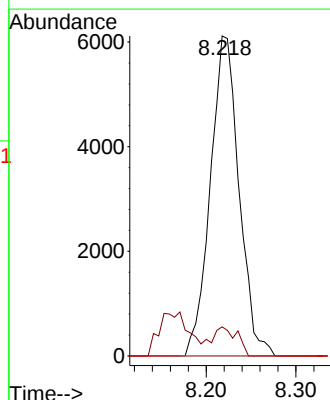
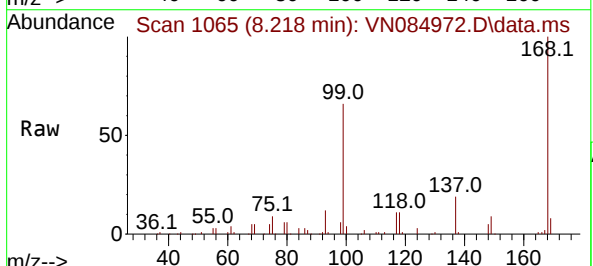
Tgt Ion: 75 Resp: 13594

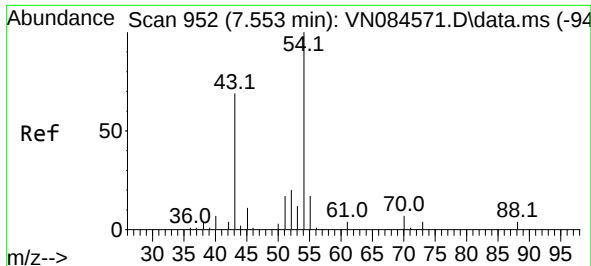
Ion Ratio Lower Upper

75 100

110 6.7 16.9 50.7#

77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 1.030 ug/l

RT: 7.553 min Scan# 91

Delta R.T. -0.006 min

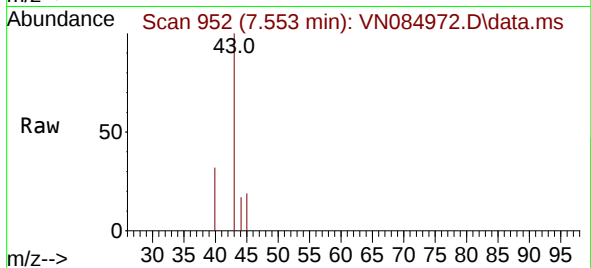
Lab File: VN084972.D

Acq: 20 Nov 2024 16:34

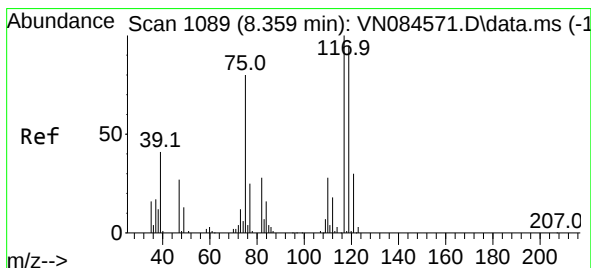
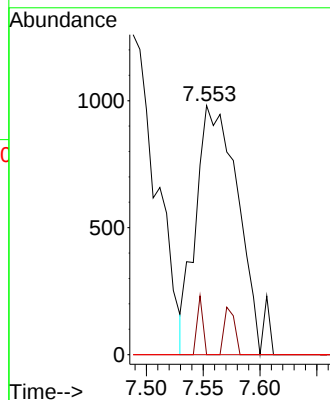
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	43	Resp:	2575
Ion	Ratio	Lower	Upper
43	100		
61	3.2	10.7	16.1#
70	0.0	8.8	13.2#



#38

Carbon Tetrachloride

Concen: 5.906 ug/l

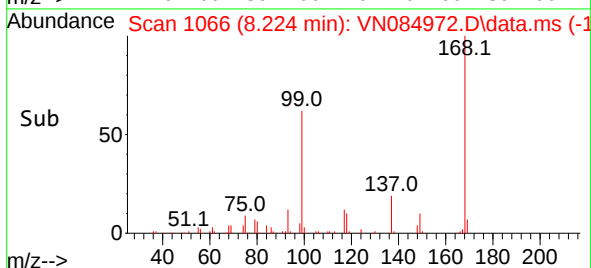
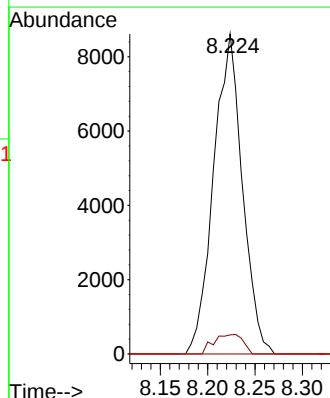
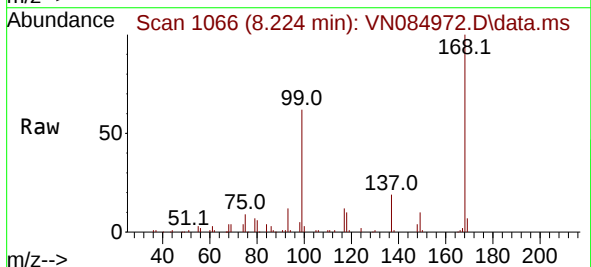
RT: 8.224 min Scan# 1066

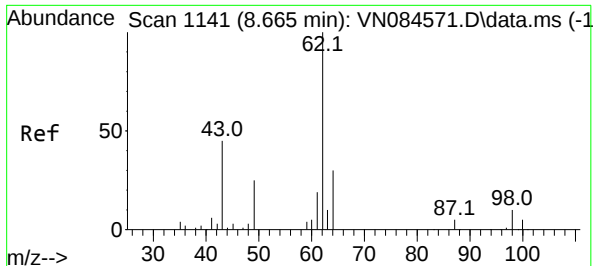
Delta R.T. -0.135 min

Lab File: VN084972.D

Acq: 20 Nov 2024 16:34

Tgt Ion:	117	Resp:	18190
Ion	Ratio	Lower	Upper
117	100		
119	6.0	78.7	118.1#
121	0.0	24.4	36.6#





#42

1,2-Dichloroethane

Concen: 0.254 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.017 min

Lab File: VN084972.D

Acq: 20 Nov 2024 16:34

Instrument :

MSVOA_N

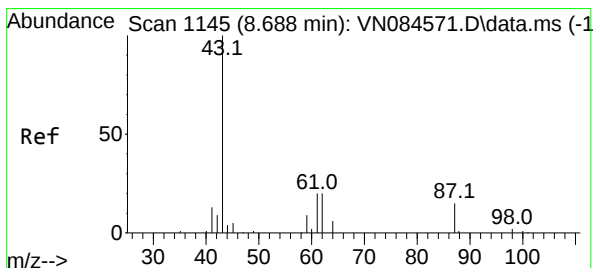
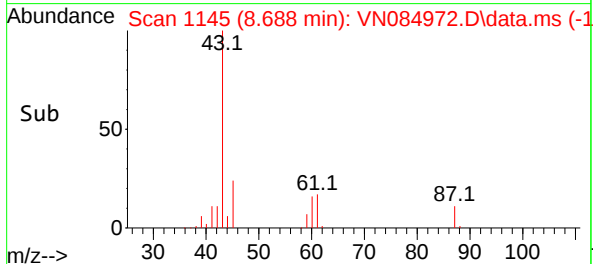
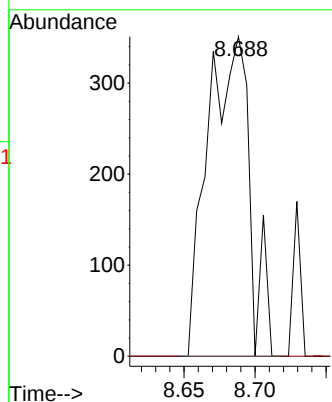
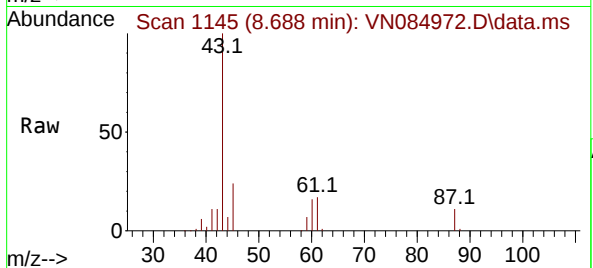
ClientSampleId :

Tgt Ion: 62 Resp: 728

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.2



#43

Isopropyl Acetate

Concen: 38.093 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN084972.D

Acq: 20 Nov 2024 16:34

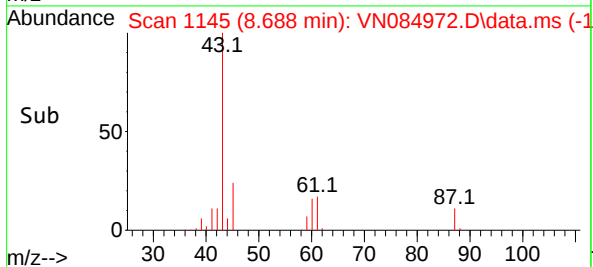
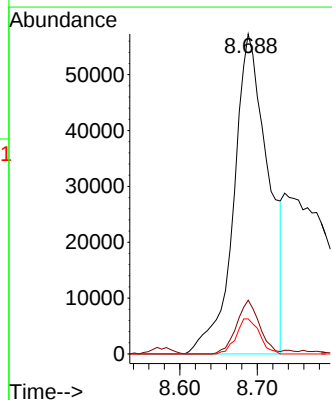
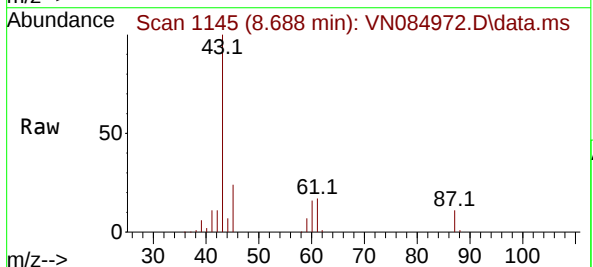
Tgt Ion: 43 Resp: 177014

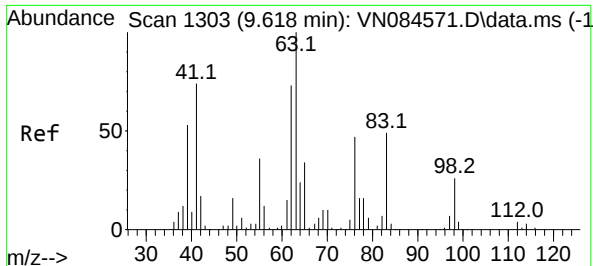
Ion Ratio Lower Upper

43 100

61 11.3 20.4 30.6#

87 7.4 10.3 15.5#





#45

1,2-Dichloropropane

Concen: 0.538 ug/l

RT: 9.741 min Scan# 1117

Delta R.T. 0.123 min

Lab File: VN084972.D

Acq: 20 Nov 2024 16:34

Instrument :

MSVOA_N

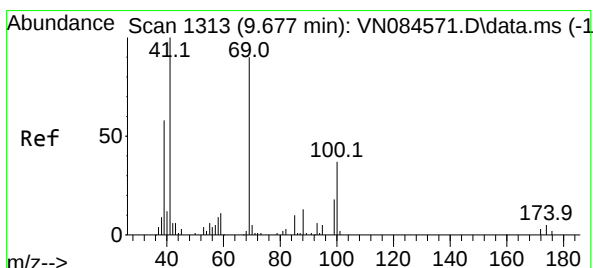
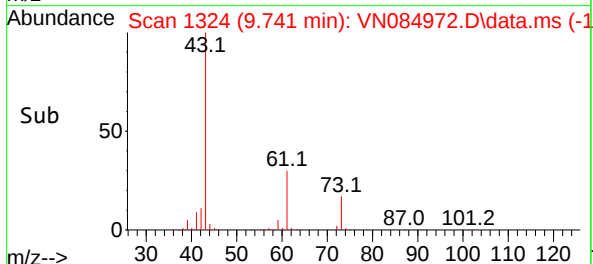
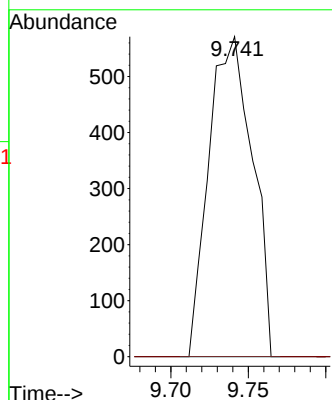
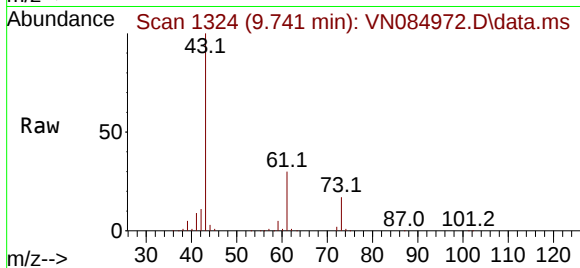
ClientSampleId :

Tgt Ion: 63 Resp: 1117

Ion Ratio Lower Upper

63 100

65 0.0 24.6 37.0#



#48

Methyl methacrylate

Concen: 1.502 ug/l

RT: 9.671 min Scan# 1312

Delta R.T. -0.006 min

Lab File: VN084972.D

Acq: 20 Nov 2024 16:34

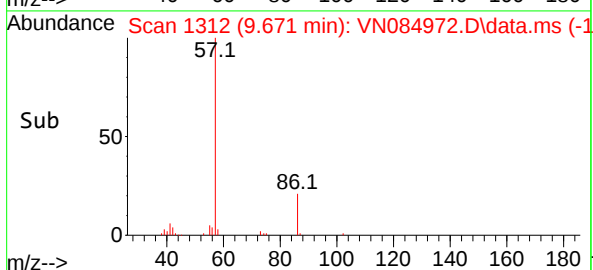
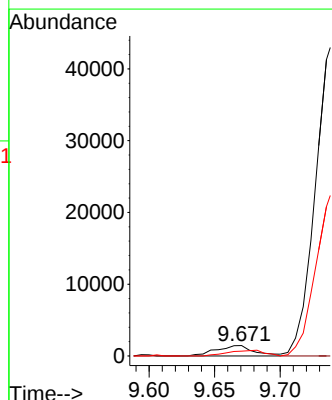
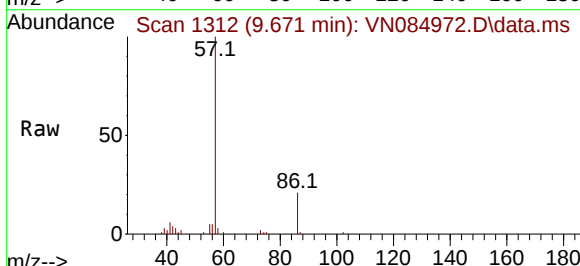
Tgt Ion: 41 Resp: 2923

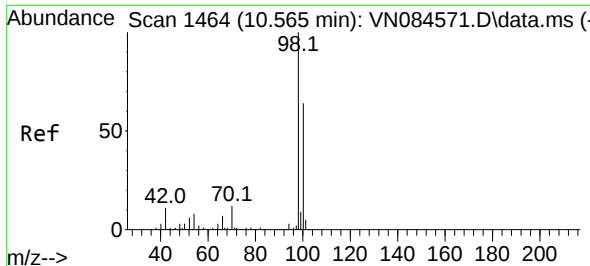
Ion Ratio Lower Upper

41 100

69 0.0 67.1 100.7#

39 51.6 45.8 68.6

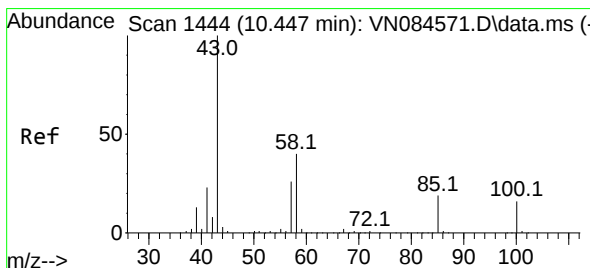
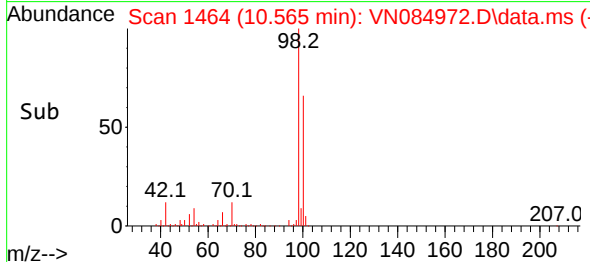
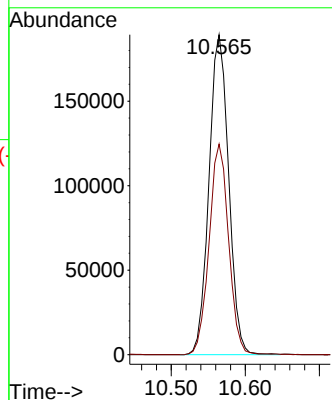
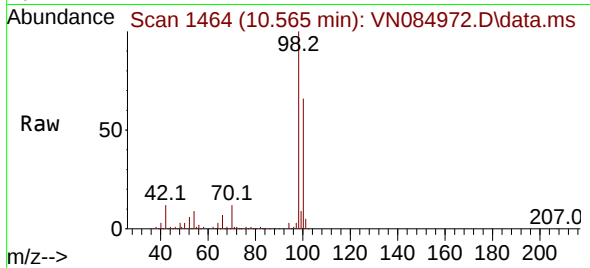




#50
Toluene-d8
Concen: 47.682 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN084972.D
Acq: 20 Nov 2024 16:34

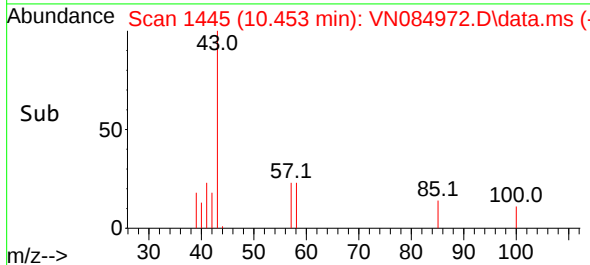
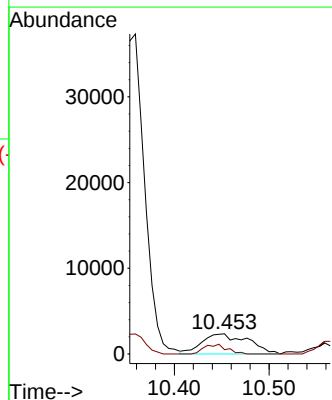
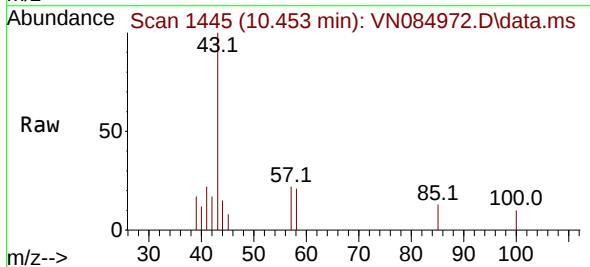
Instrument :
MSVOA_N
ClientSampleId :

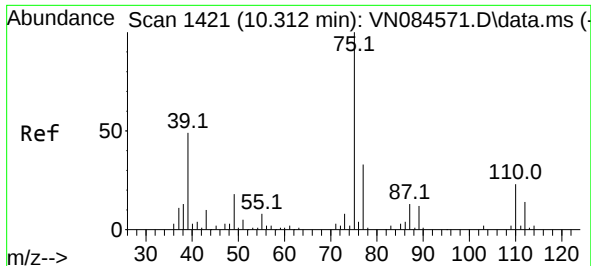
Tgt Ion: 98 Resp: 349006
Ion Ratio Lower Upper
98 100
100 65.3 52.7 79.1



#51
4-Methyl-2-Pentanone
Concen: 3.353 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.012 min
Lab File: VN084972.D
Acq: 20 Nov 2024 16:34

Tgt Ion: 43 Resp: 7992
Ion Ratio Lower Upper
43 100
58 23.4 31.6 47.4#

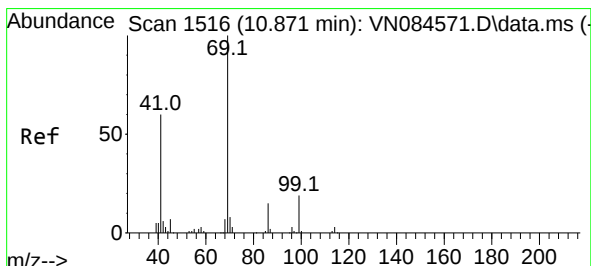
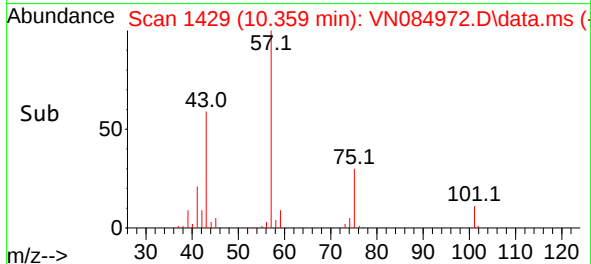
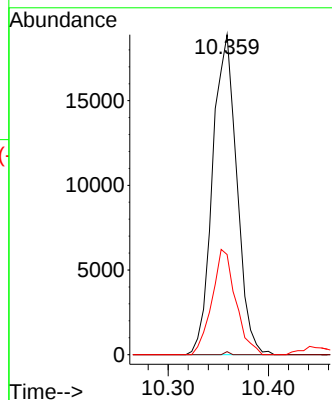
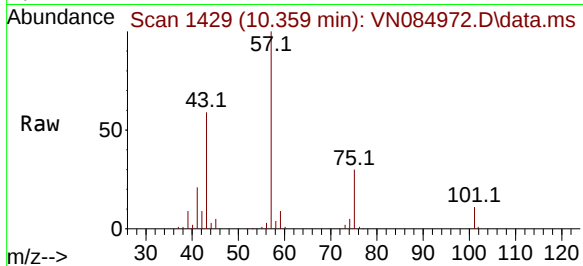




#54
cis-1,3-Dichloropropene
Concen: 9.371 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.047 min
Lab File: VN084972.D
Acq: 20 Nov 2024 16:34

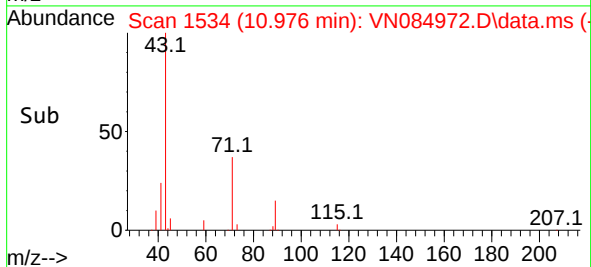
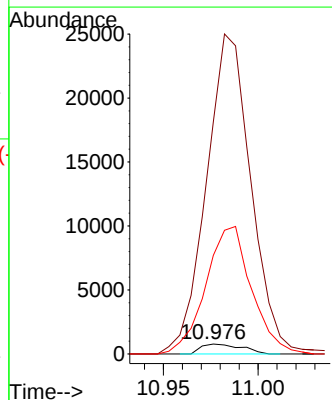
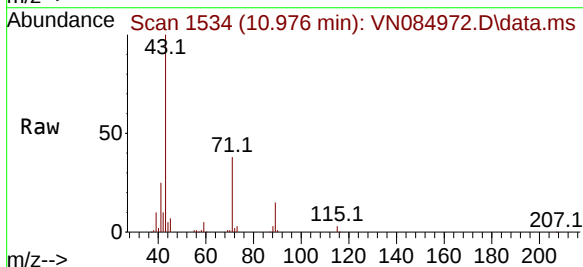
Instrument :
MSVOA_N
ClientSampleId :

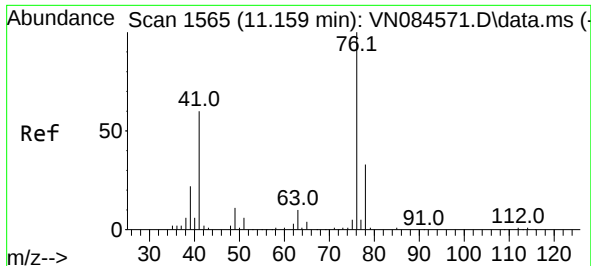
Tgt Ion: 75 Resp: 31701
Ion Ratio Lower Upper
75 100
77 0.9 24.2 36.2#
39 31.3 38.7 58.1#



#56
Ethyl methacrylate
Concen: 0.413 ug/l
RT: 10.976 min Scan# 1534
Delta R.T. 0.106 min
Lab File: VN084972.D
Acq: 20 Nov 2024 16:34

Tgt Ion: 69 Resp: 1166
Ion Ratio Lower Upper
69 100
41 3529.3 53.3 79.9#
39 1440.7 28.8 43.2#





#57

1,3-Dichloropropane

Concen: 1.283 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.047 min

Lab File: VN084972.D

Acq: 20 Nov 2024 16:34

Instrument :

MSVOA_N

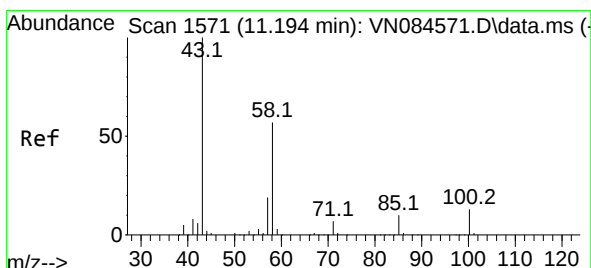
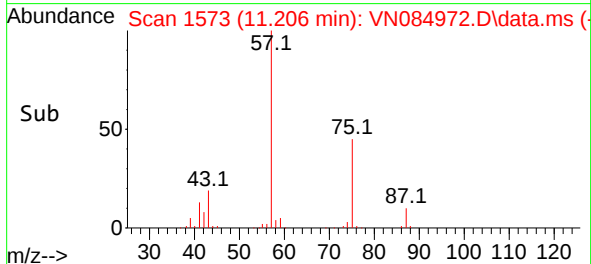
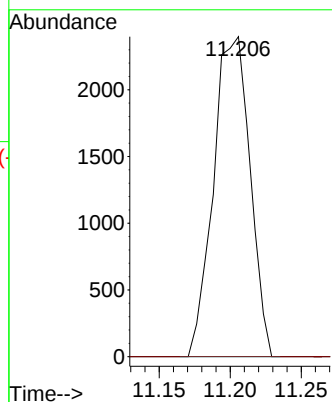
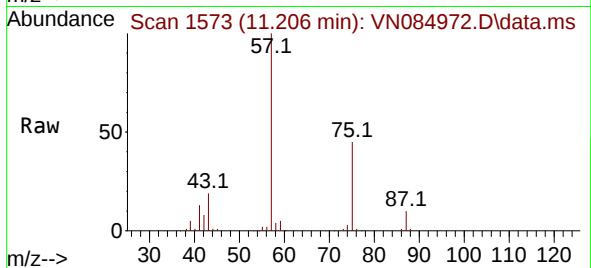
ClientSampleId :

Tgt Ion: 76 Resp: 4294

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



#59

2-Hexanone

Concen: 28.411 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN084972.D

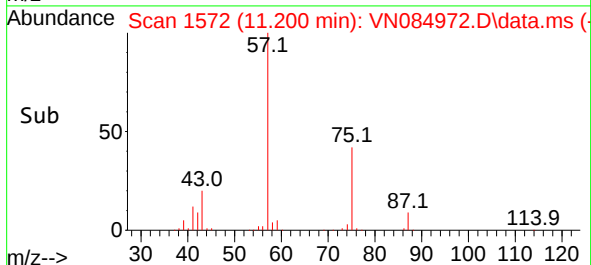
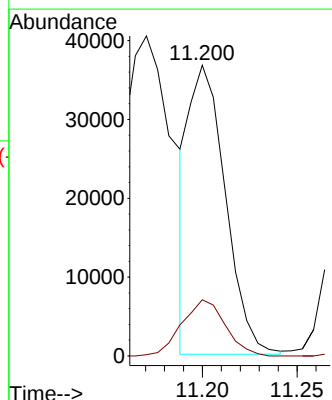
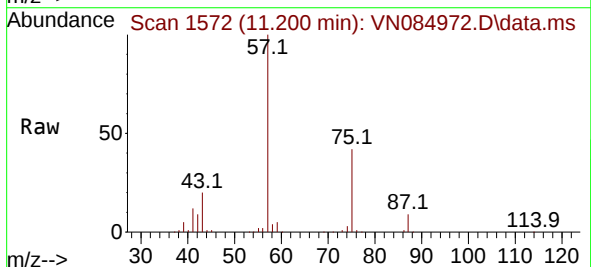
Acq: 20 Nov 2024 16:34

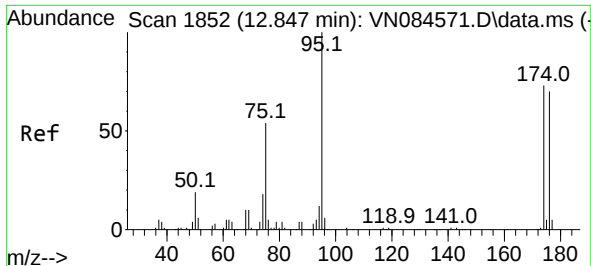
Tgt Ion: 43 Resp: 49290

Ion Ratio Lower Upper

43 100

58 23.1 27.3 81.8#

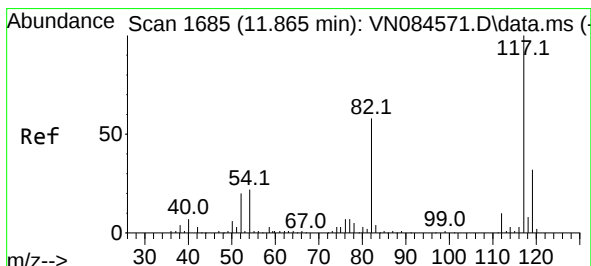
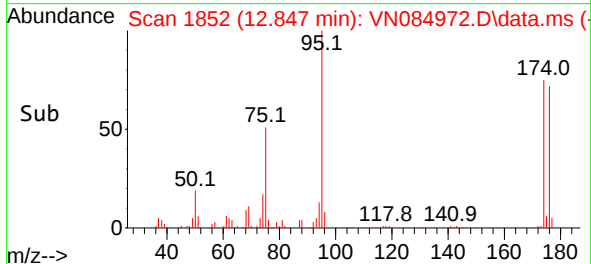
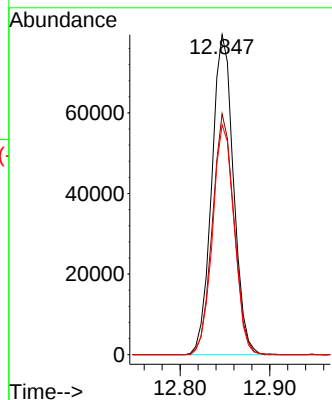
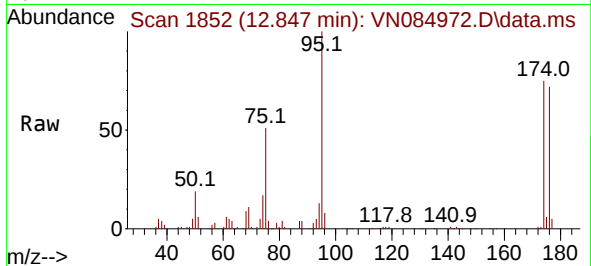




#62
4-Bromofluorobenzene
Concen: 48.804 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN084972.D
Acq: 20 Nov 2024 16:34

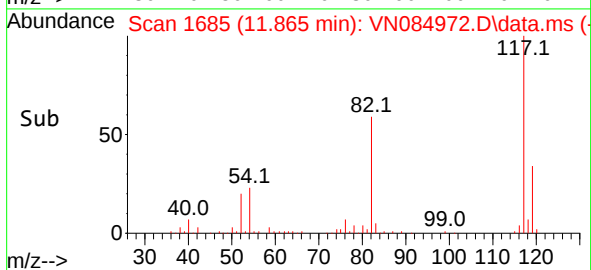
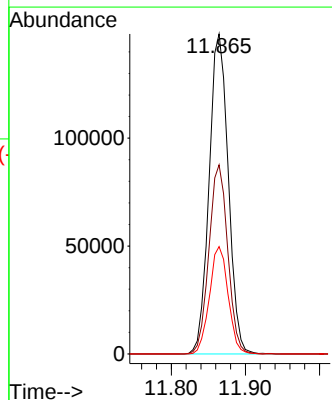
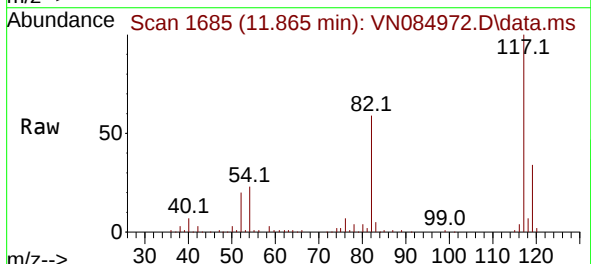
Instrument :
MSVOA_N
ClientSampleId :

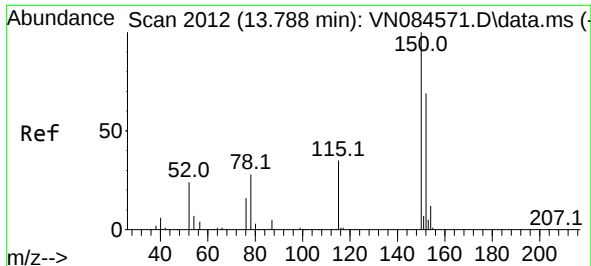
Tgt Ion: 95 Resp: 133505
Ion Ratio Lower Upper
95 100
174 74.8 0.0 145.2
176 71.4 0.0 140.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN084972.D
Acq: 20 Nov 2024 16:34

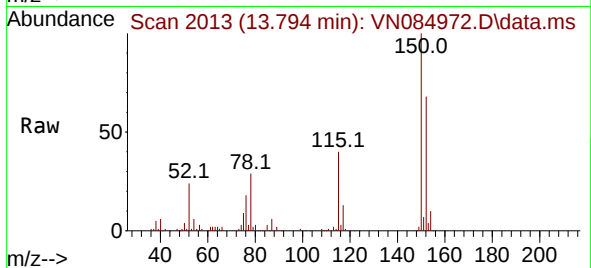
Tgt Ion: 117 Resp: 266271
Ion Ratio Lower Upper
117 100
82 59.1 47.2 70.8
119 33.5 25.4 38.0



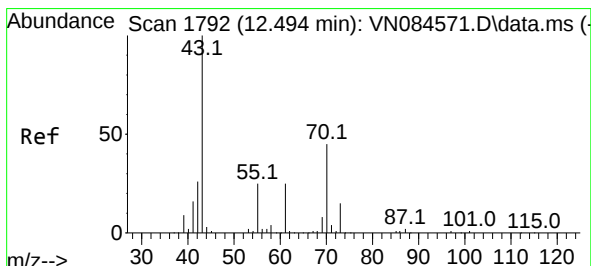
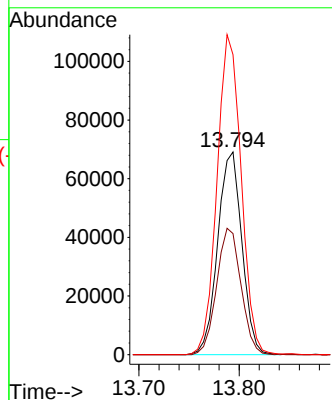
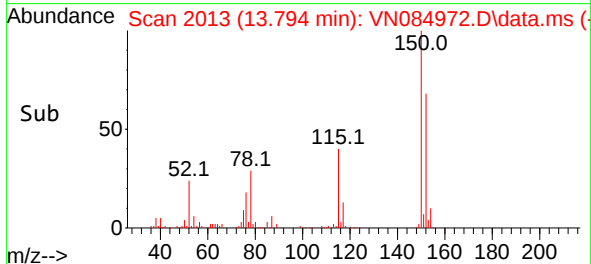


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2012
Delta R.T. 0.006 min
Lab File: VN084972.D
Acq: 20 Nov 2024 16:34

Instrument :
MSVOA_N
ClientSampleId :

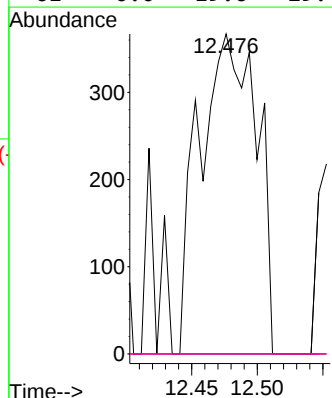
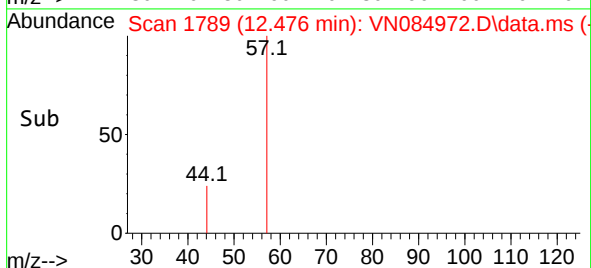
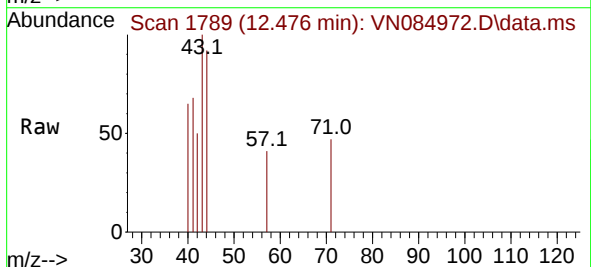


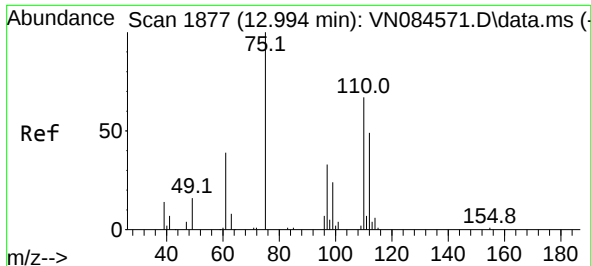
Tgt Ion:152 Resp: 115985
Ion Ratio Lower Upper
152 100
115 62.6 31.3 93.9
150 157.6 0.0 349.8



#74
N-ethyl acetate
Concen: 0.323 ug/l
RT: 12.476 min Scan# 1789
Delta R.T. -0.018 min
Lab File: VN084972.D
Acq: 20 Nov 2024 16:34

Tgt Ion: 43 Resp: 1119
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#

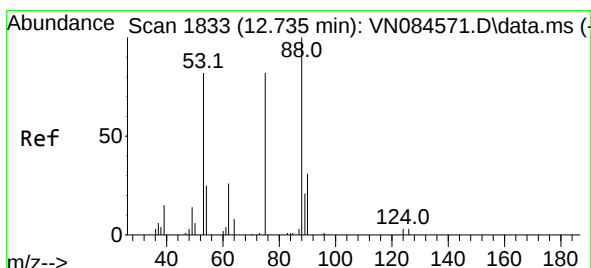
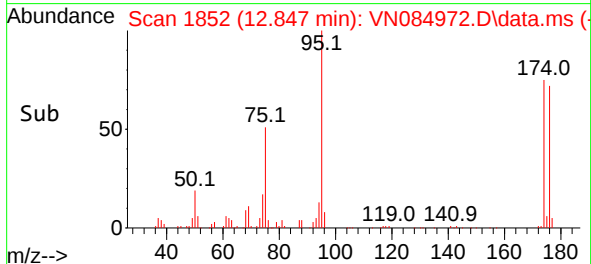
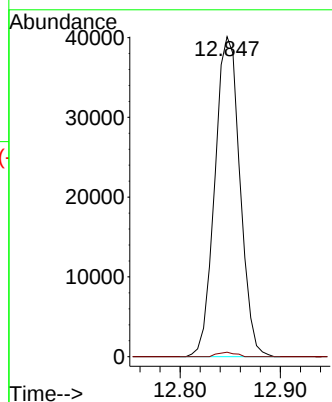
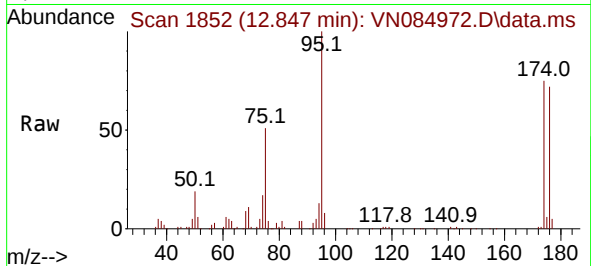




#76
1,2,3-Trichloropropane
Concen: 30.055 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN084972.D
Acq: 20 Nov 2024 16:34

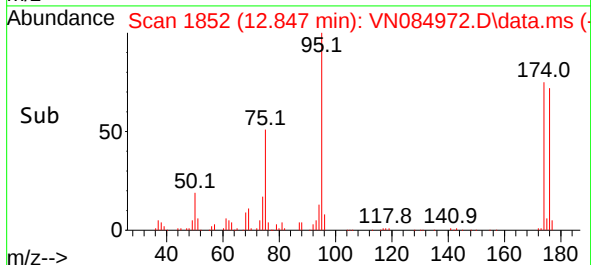
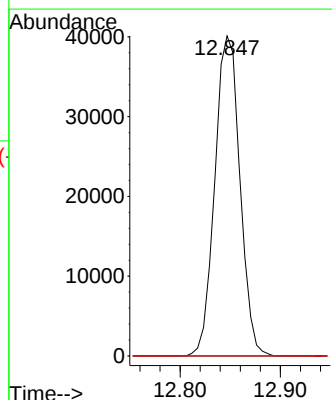
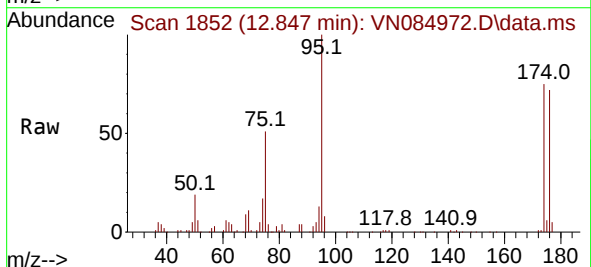
Instrument :
MSVOA_N
ClientSampleId :

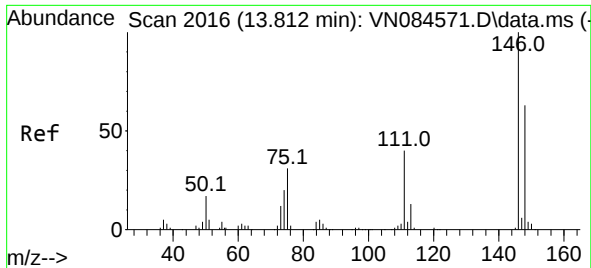
Tgt Ion: 75 Resp: 69681
Ion Ratio Lower Upper
75 100
77 1.0 96.9 290.7#



#81
trans-1,4-Dichloro-2-butene
Concen: 71.301 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN084972.D
Acq: 20 Nov 2024 16:34

Tgt Ion: 75 Resp: 69681
Ion Ratio Lower Upper
75 100
53 0.0 78.0 117.0#
89 0.0 35.5 53.3#





#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 13.811 min Scan# 20

Delta R.T. -0.001 min

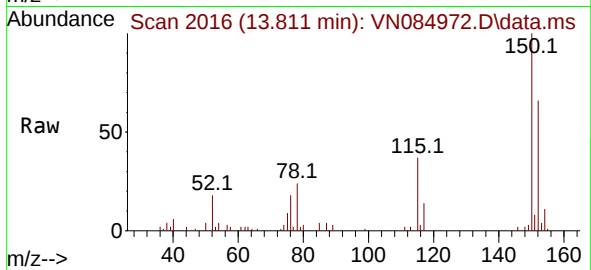
Lab File: VN084972.D

Acq: 20 Nov 2024 16:34

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:146 Resp: 522

Ion Ratio Lower Upper

146 100

111 350.4 21.2 63.6#

148 135.1 31.9 95.9#

