

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
 Data File : VN084609.D
 Acq On : 31 Oct 2024 08:34
 Operator : JC\MD
 Sample : PB164501ZHE#18
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB164501ZHE#18

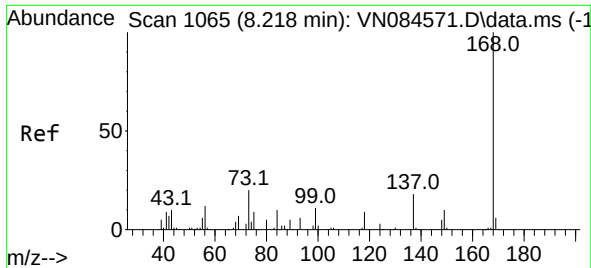
Quant Time: Nov 01 06:20:53 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:45:38 2024
 Response via : Initial Calibration

Compound	R.T. QIon		Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	170711	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	312595	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	289877	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	123376	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	127845	51.851	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	103.700%
35) Dibromofluoromethane	8.159	113	101167	47.813	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	95.620%
50) Toluene-d8	10.565	98	380435	48.810	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	97.620%
62) 4-Bromofluorobenzene	12.847	95	130767	44.891	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	89.780%
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	1032	Below Cal	#	41
6) Chloroethane	3.142	64	380	Below Cal	#	45
11) Tert butyl alcohol	5.483	59	3870	11.891	ug/l #	73
16) Acetone	4.436	43	27534	36.220	ug/l	99
18) Methyl Acetate	5.036	43	16067	2.373	ug/l #	83
20) Methylene Chloride	5.265	84	2331	1.075	ug/l #	65
25) 2-Butanone	7.494	43	2972	2.584	ug/l #	81
29) Tetrahydrofuran	7.847	42	391	0.512	ug/l #	34
31) Cyclohexane	8.218	56	3730	1.096	ug/l #	26
36) 1,1-Dichloropropene	8.218	75	14585	4.970	ug/l #	52
37) Ethyl Acetate	7.571	43	2822	1.060	ug/l #	92
38) Carbon Tetrachloride	8.218	117	18883	5.757	ug/l #	16
42) 1,2-Dichloroethane	8.671	62	1010	0.331	ug/l #	75
43) Isopropyl Acetate	8.688	43	217448	44.095	ug/l #	78
45) 1,2-Dichloropropane	9.753	63	1344	0.608	ug/l #	44
48) Methyl methacrylate	9.659	41	3162	1.526	ug/l #	43
49) 1,4-Dioxane	9.747	88	70	1.906	ug/l #	1
51) 4-Methyl-2-Pentanone	10.441	43	8643	3.405	ug/l #	75
53) t-1,3-Dichloropropene	10.729	75	824	0.242	ug/l #	43
54) cis-1,3-Dichloropropene	10.359	75	40073	11.124	ug/l #	67
56) Ethyl methacrylate	10.988	69	1418	0.472	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	5399	1.515	ug/l #	42
59) 2-Hexanone	11.200	43	65208	35.296	ug/l #	55
71) Bromoform	12.841	173	857	0.505	ug/l #	1
74) N-amyl acetate	12.470	43	1745	0.474	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	68056	27.595	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	68056	65.467	ug/l #	11

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

Quant Time: Nov 01 06:20:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
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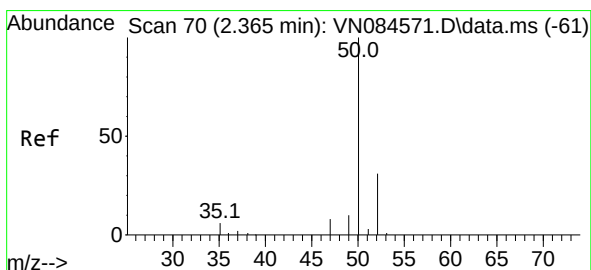
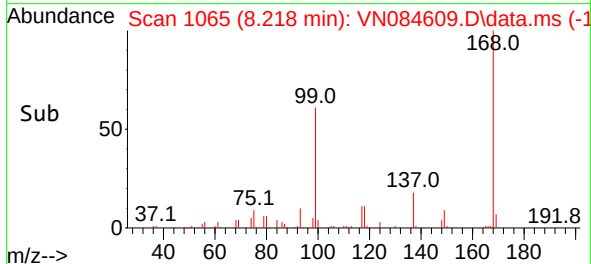
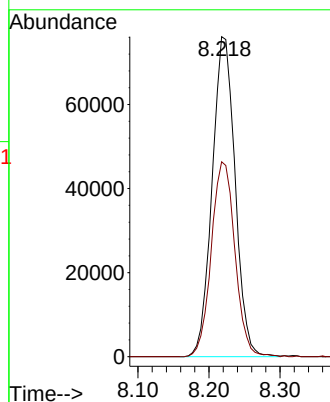
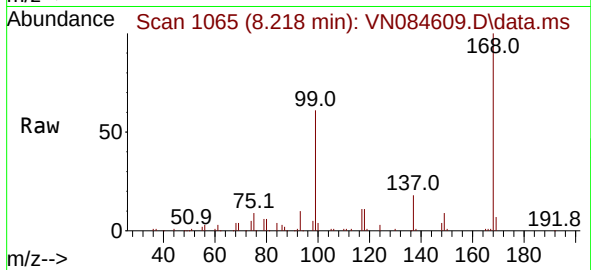




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.006 min
Lab File: VN084609.D
Acq: 31 Oct 2024 08:34

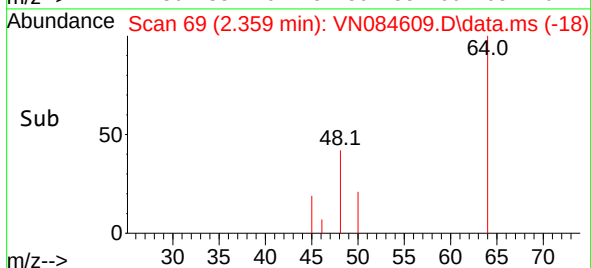
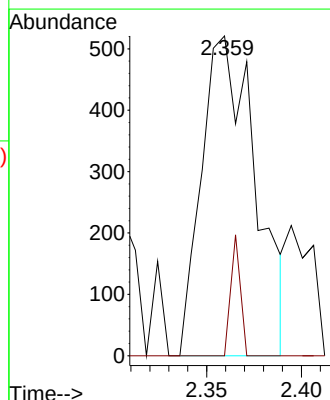
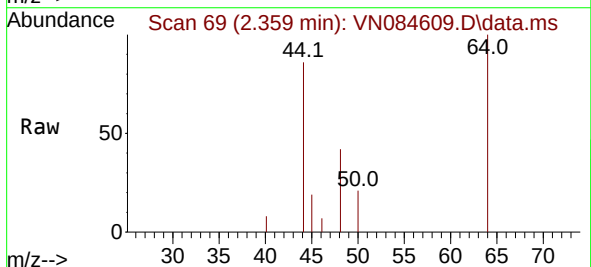
Instrument :
MSVOA_N
ClientSampleId :
PB164501ZHE#18

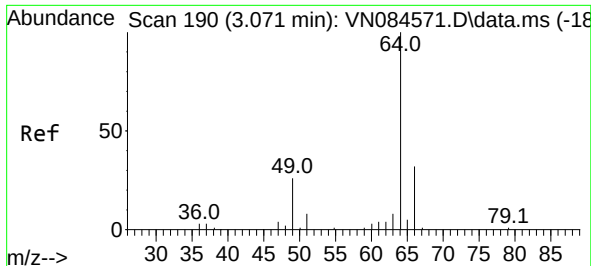
Tgt Ion:168 Resp: 170711
Ion Ratio Lower Upper
168 100
99 60.9 54.2 81.2



#3
Chloromethane
Concen: Below Cal
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN084609.D
Acq: 31 Oct 2024 08:34

Tgt Ion: 50 Resp: 1032
Ion Ratio Lower Upper
50 100
52 0.0 26.8 40.2#

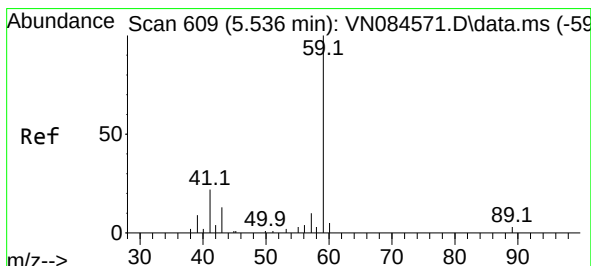
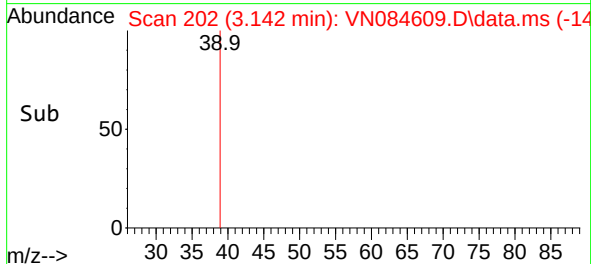
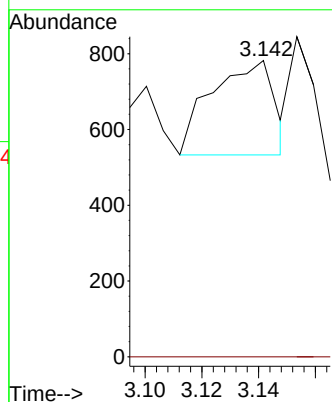
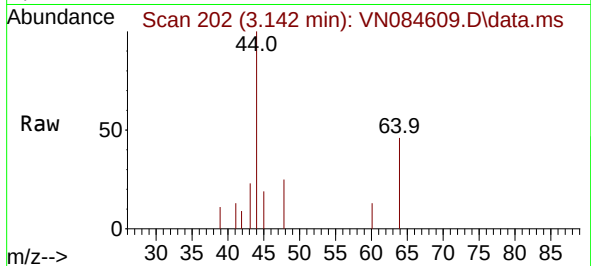




#6
Chloroethane
Concen: Below Cal
RT: 3.142 min Scan# 20
Delta R.T. 0.024 min
Lab File: VN084609.D
Acq: 31 Oct 2024 08:34

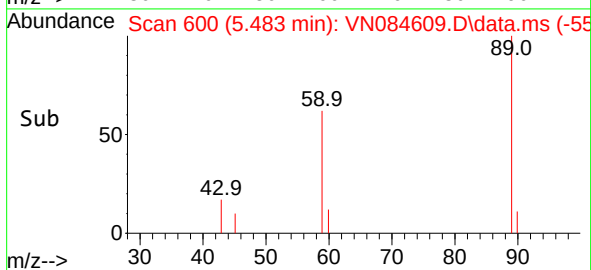
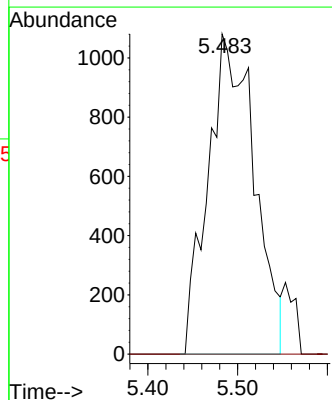
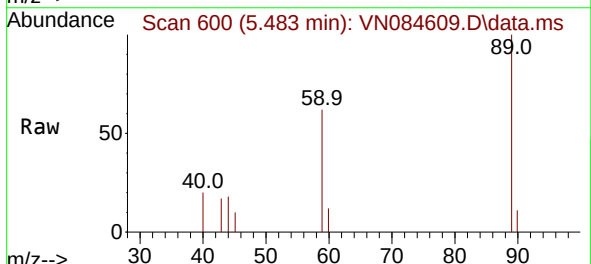
Instrument :
MSVOA_N
ClientSampleId :
PB164501ZHE#18

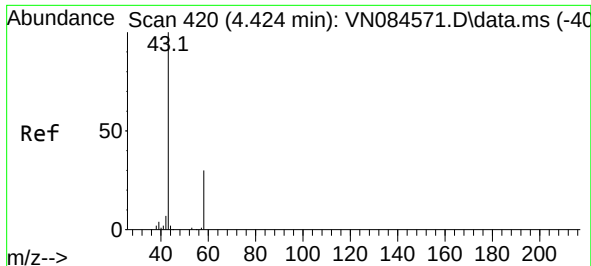
Tgt Ion: 64 Resp: 380
Ion Ratio Lower Upper
64 100
66 0.0 23.5 35.3#



#11
Tert butyl alcohol
Concen: 11.891 ug/l
RT: 5.483 min Scan# 600
Delta R.T. -0.041 min
Lab File: VN084609.D
Acq: 31 Oct 2024 08:34

Tgt Ion: 59 Resp: 3870
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#





#16

Acetone

Concen: 36.220 ug/l

RT: 4.436 min Scan# 41

Delta R.T. 0.012 min

Lab File: VN084609.D

Acq: 31 Oct 2024 08:34

Instrument :

MSVOA_N

ClientSampleId :

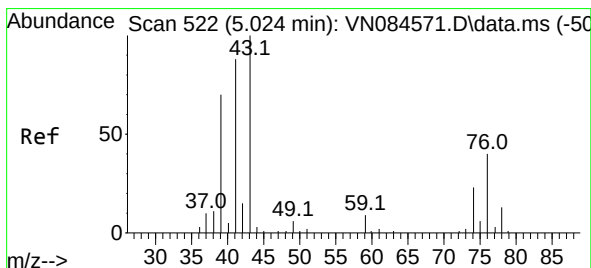
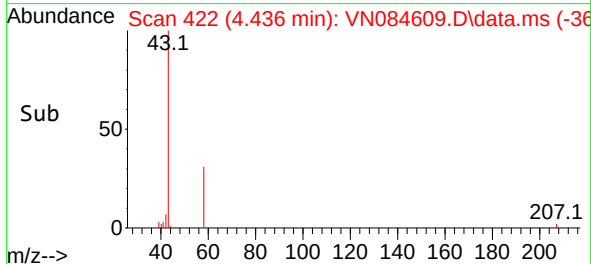
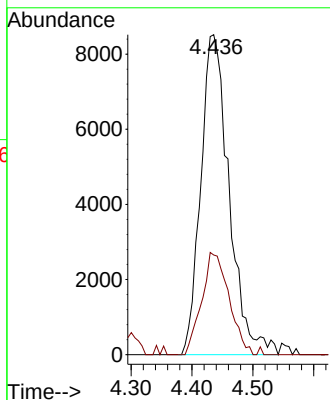
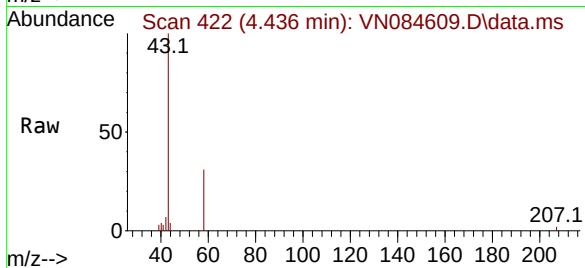
PB164501ZHE#18

Tgt Ion: 43 Resp: 27534

Ion Ratio Lower Upper

43 100

58 31.2 24.4 36.6



#18

Methyl Acetate

Concen: 2.373 ug/l

RT: 5.036 min Scan# 524

Delta R.T. 0.018 min

Lab File: VN084609.D

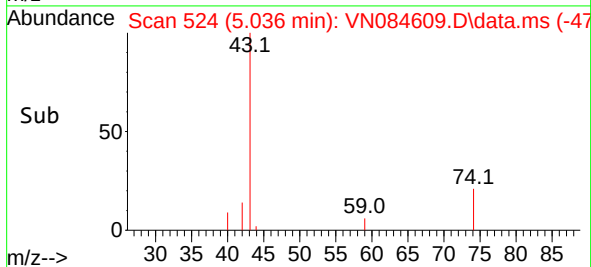
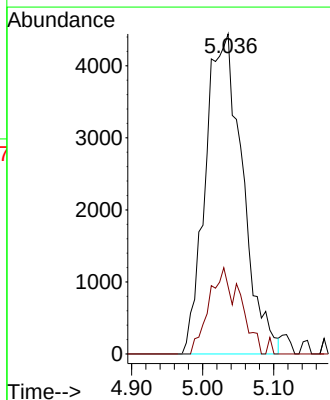
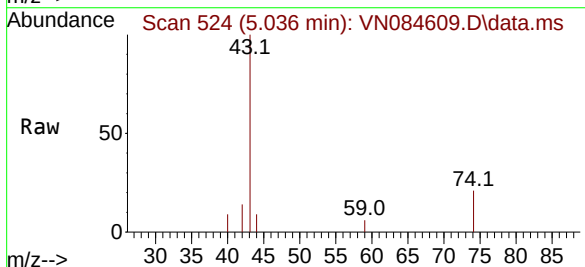
Acq: 31 Oct 2024 08:34

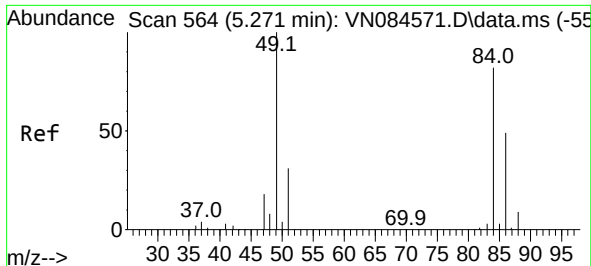
Tgt Ion: 43 Resp: 16067

Ion Ratio Lower Upper

43 100

74 15.6 19.2 28.8#

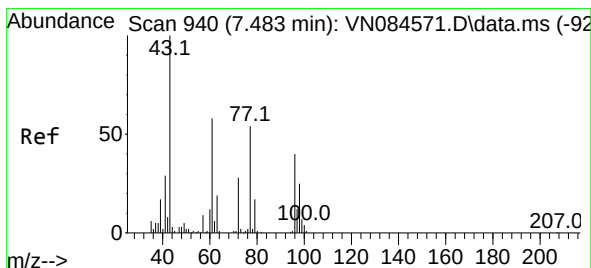
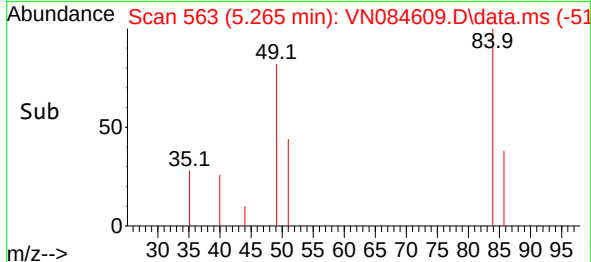
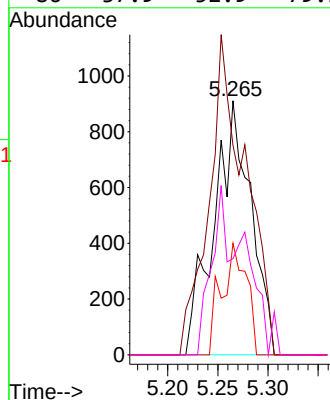
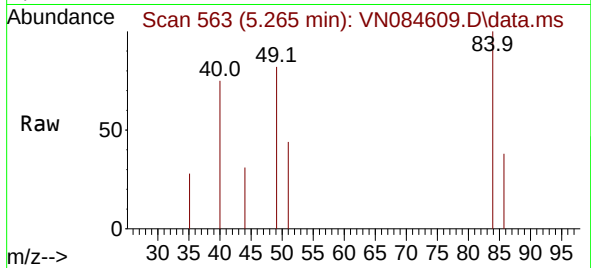




#20
Methylene Chloride
Concen: 1.075 ug/l
RT: 5.265 min Scan# 51
Delta R.T. -0.012 min
Lab File: VN084609.D
Acq: 31 Oct 2024 08:34

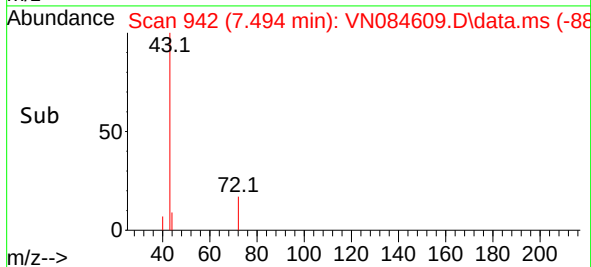
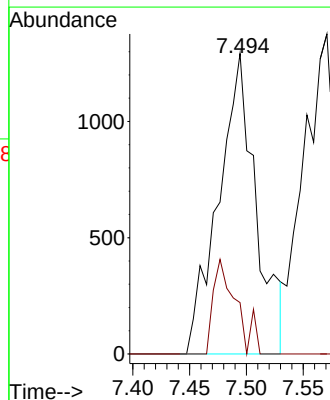
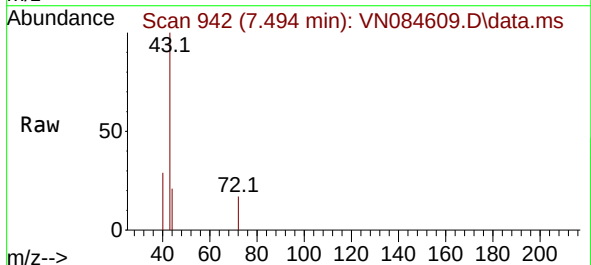
Instrument :
MSVOA_N
ClientSampleId :
PB164501ZHE#18

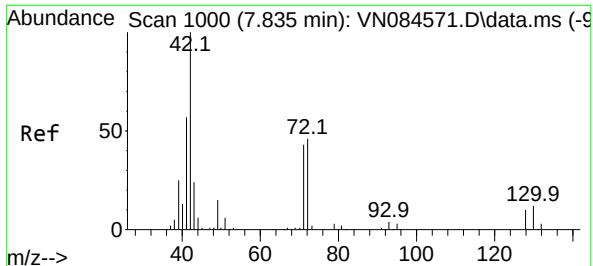
Tgt Ion: 84	Resp: 2331
Ion Ratio	Lower Upper
84 100	
49 82.4	107.2 160.8#
51 43.9	31.8 47.8
86 37.9	52.9 79.3#



#25
2-Butanone
Concen: 2.584 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.012 min
Lab File: VN084609.D
Acq: 31 Oct 2024 08:34

Tgt Ion: 43	Resp: 2972
Ion Ratio	Lower Upper
43 100	
72 17.1	21.4 32.2#





#29

Tetrahydrofuran

Concen: 0.512 ug/l

RT: 7.847 min Scan# 1065

Delta R.T. 0.012 min

Lab File: VN084609.D

Acq: 31 Oct 2024 08:34

Instrument :

MSVOA_N

ClientSampleId :

PB164501ZHE#18

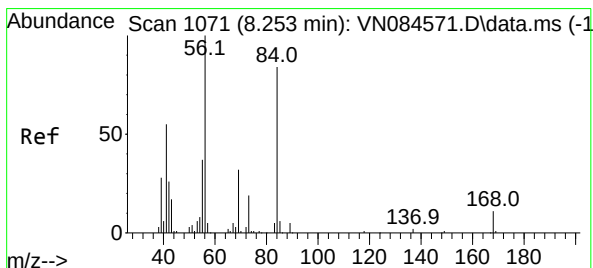
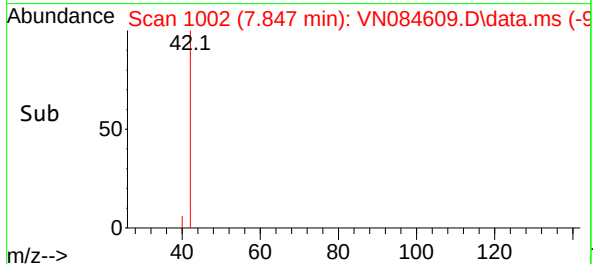
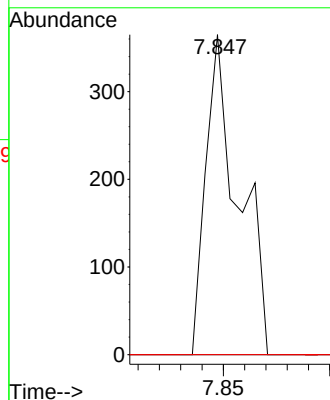
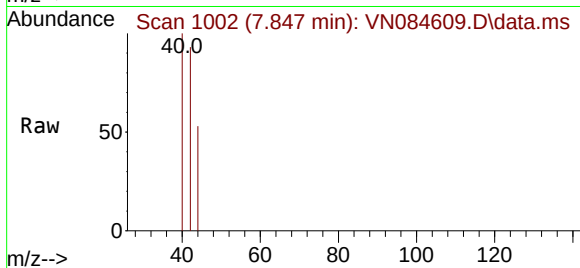
Tgt Ion: 42 Resp: 391

Ion Ratio Lower Upper

42 100

72 0.0 34.6 51.8#

71 0.0 32.2 48.4#



#31

Cyclohexane

Concen: 1.096 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.035 min

Lab File: VN084609.D

Acq: 31 Oct 2024 08:34

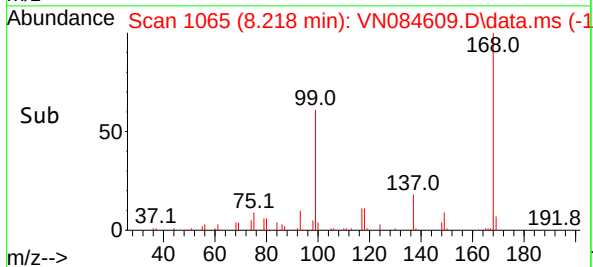
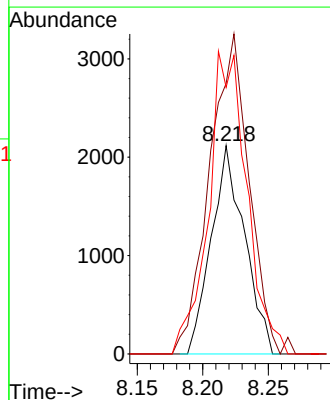
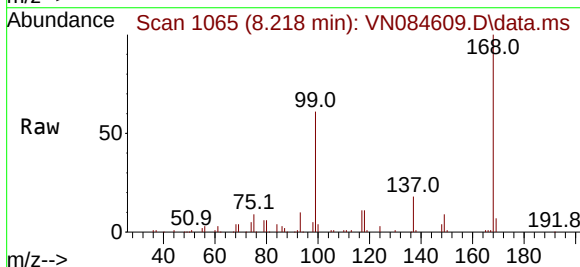
Tgt Ion: 56 Resp: 3730

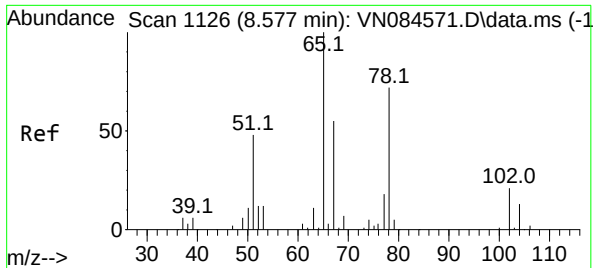
Ion Ratio Lower Upper

56 100

69 129.9 23.8 35.6#

84 118.9 68.8 103.2#





#33

1,2-Dichloroethane-d4

Concen: 51.851 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN084609.D

Acq: 31 Oct 2024 08:34

Instrument :

MSVOA_N

ClientSampleId :

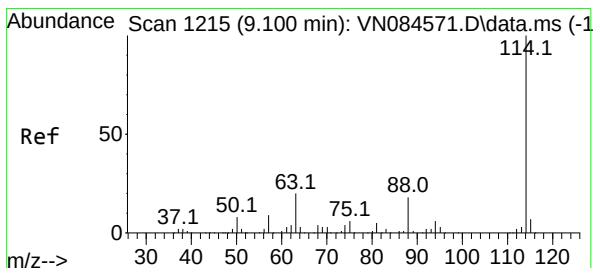
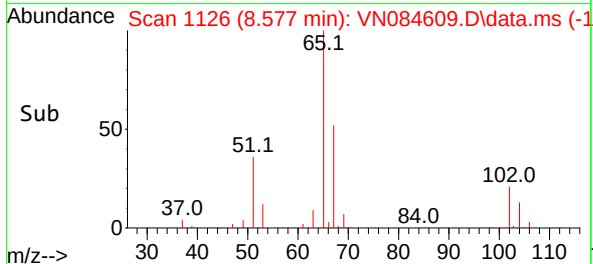
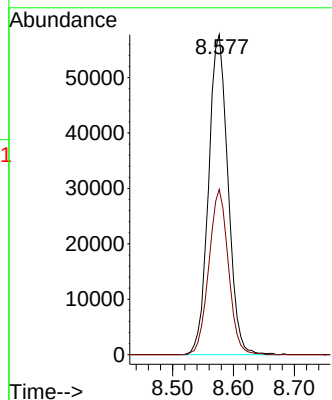
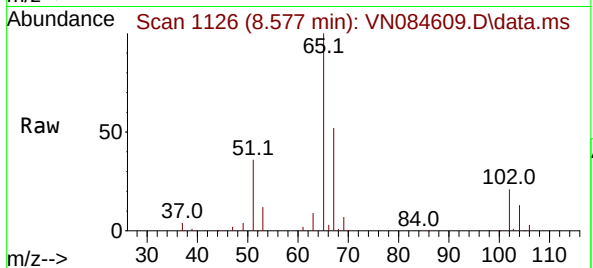
PB164501ZHE#18

Tgt Ion: 65 Resp: 127845

Ion Ratio Lower Upper

65 100

67 51.8 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: VN084609.D

Acq: 31 Oct 2024 08:34

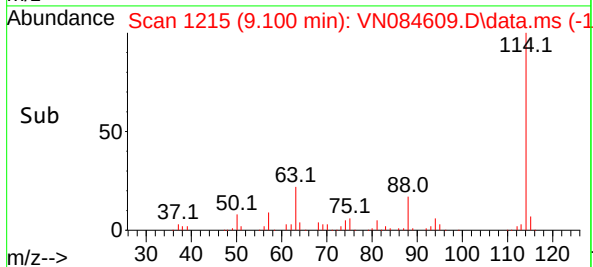
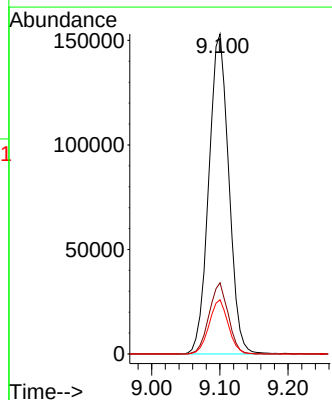
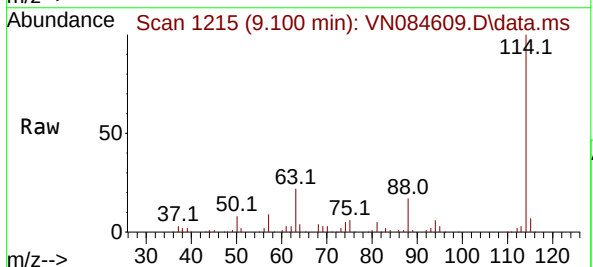
Tgt Ion: 114 Resp: 312595

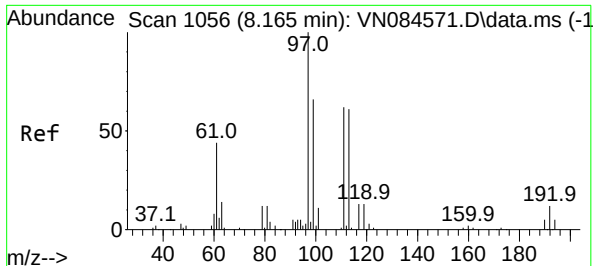
Ion Ratio Lower Upper

114 100

63 22.3 0.0 43.8

88 16.9 0.0 31.6





#35

Dibromofluoromethane

Concen: 47.813 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. -0.006 min

Lab File: VN084609.D

Acq: 31 Oct 2024 08:34

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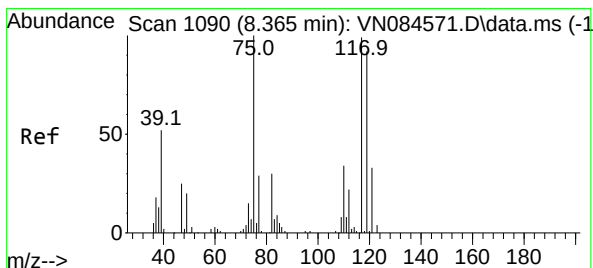
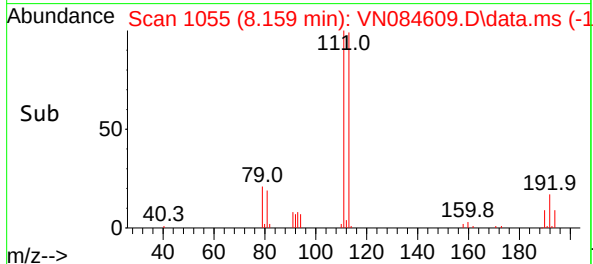
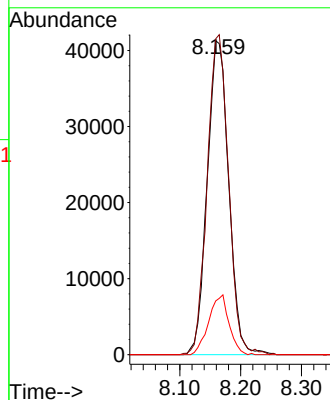
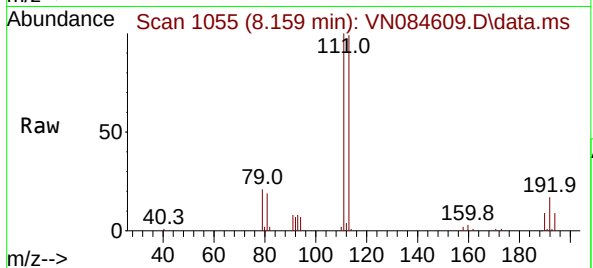
Tgt Ion:113 Resp: 101167

Ion Ratio Lower Upper

113 100

111 101.1 83.3 124.9

192 18.0 13.5 20.3



#36

1,1-Dichloropropene

Concen: 4.970 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.153 min

Lab File: VN084609.D

Acq: 31 Oct 2024 08:34

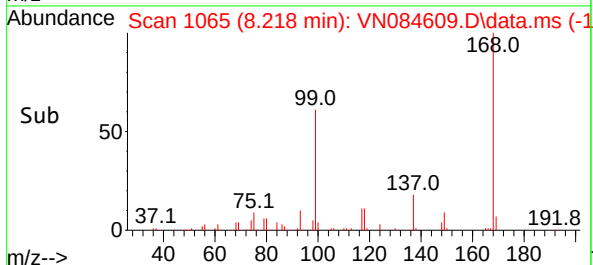
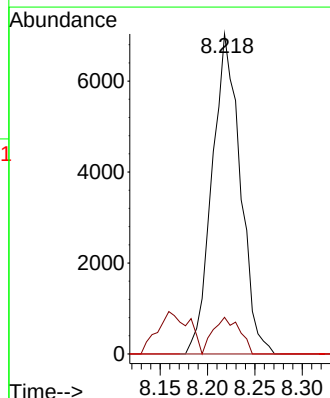
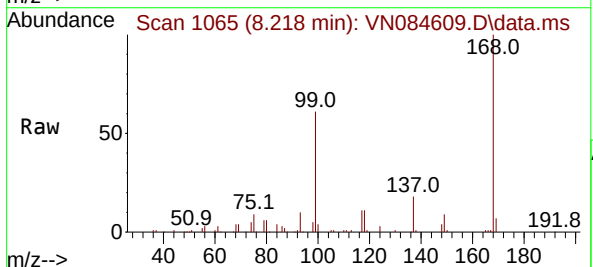
Tgt Ion: 75 Resp: 14585

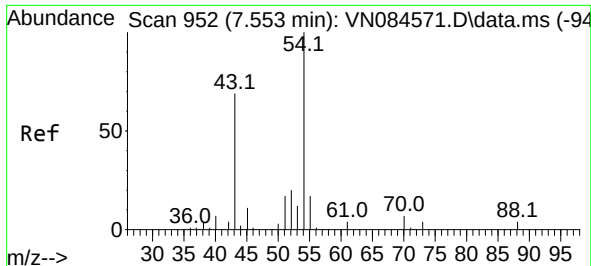
Ion Ratio Lower Upper

75 100

110 10.8 16.9 50.7#

77 0.0 24.7 37.1#

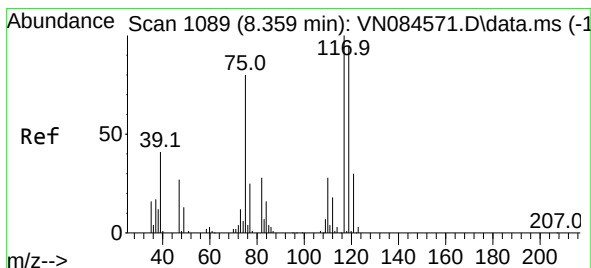
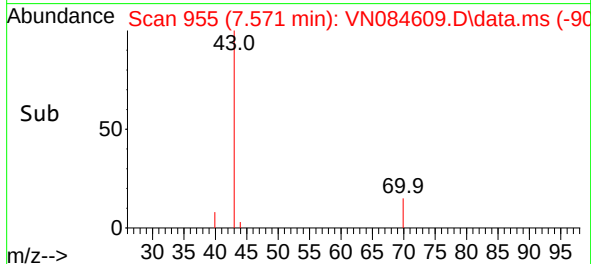
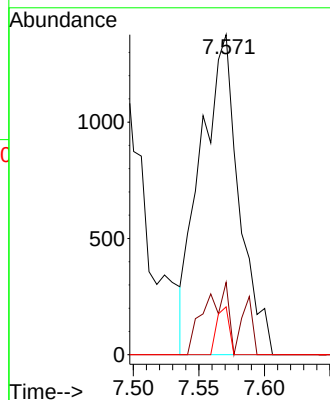
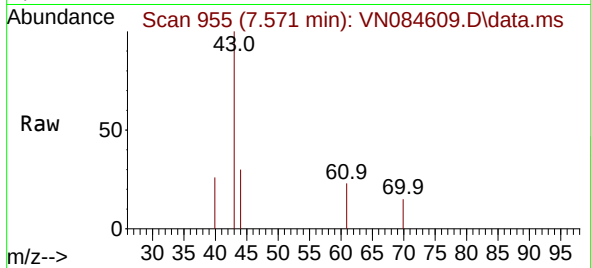




#37
Ethyl Acetate
Concen: 1.060 ug/l
RT: 7.571 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN084609.D
Acq: 31 Oct 2024 08:34

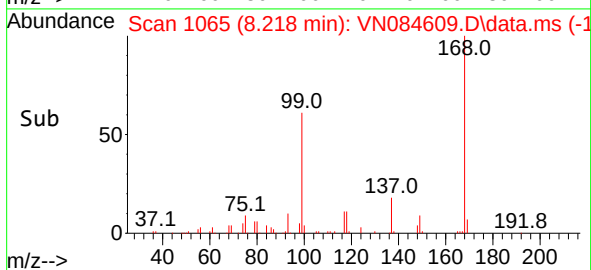
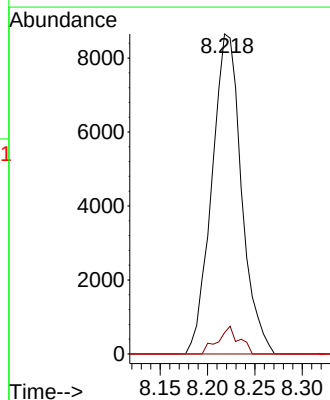
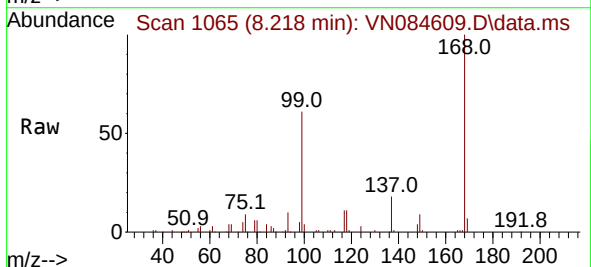
Instrument :
MSVOA_N
ClientSampleId :
PB164501ZHE#18

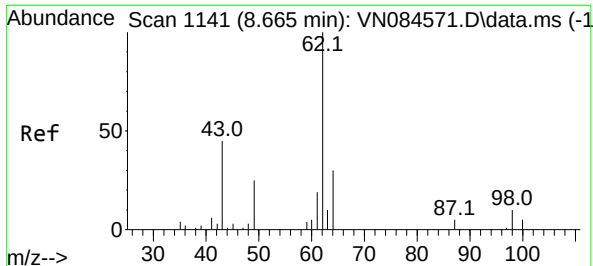
Tgt Ion: 43 Resp: 2822
Ion Ratio Lower Upper
43 100
61 13.5 10.7 16.1
70 4.8 8.8 13.2#



#38
Carbon Tetrachloride
Concen: 5.757 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.141 min
Lab File: VN084609.D
Acq: 31 Oct 2024 08:34

Tgt Ion: 117 Resp: 18883
Ion Ratio Lower Upper
117 100
119 6.7 78.7 118.1#
121 0.0 24.4 36.6#





#42

1,2-Dichloroethane

Concen: 0.331 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. -0.000 min

Lab File: VN084609.D

Acq: 31 Oct 2024 08:34

Instrument :

MSVOA_N

ClientSampleId :

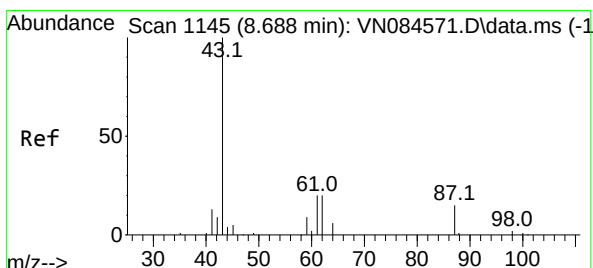
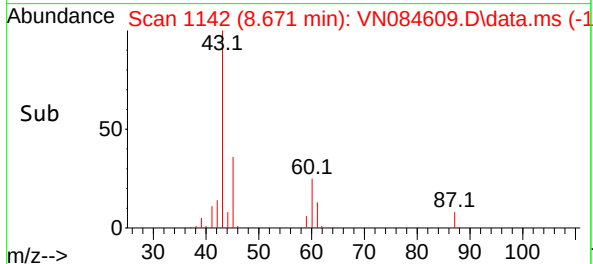
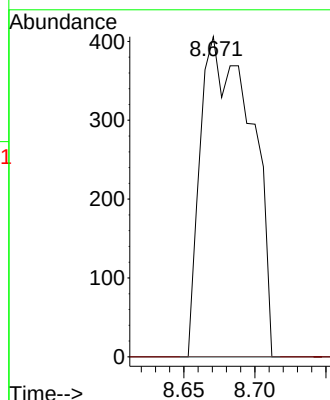
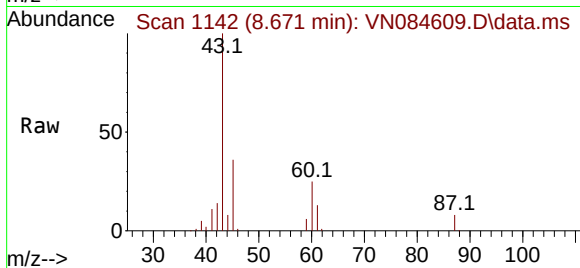
PB164501ZHE#18

Tgt Ion: 62 Resp: 1010

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.2



#43

Isopropyl Acetate

Concen: 44.095 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN084609.D

Acq: 31 Oct 2024 08:34

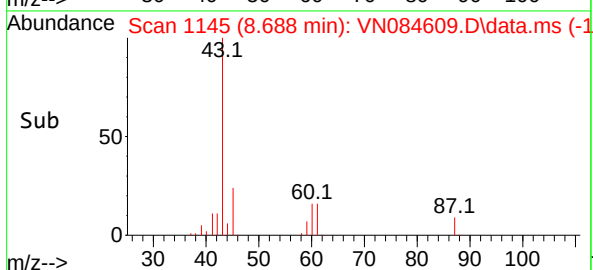
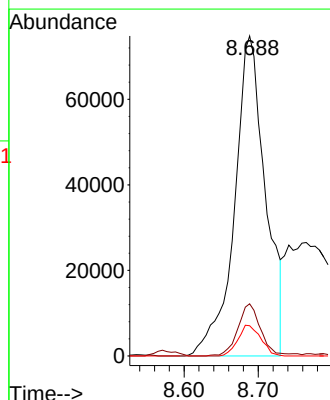
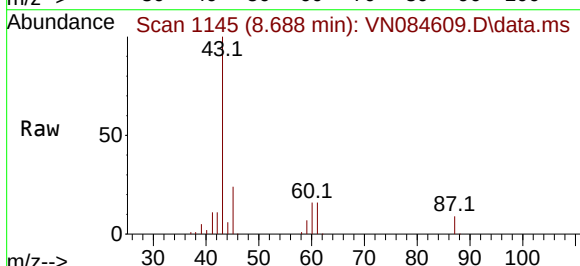
Tgt Ion: 43 Resp: 217448

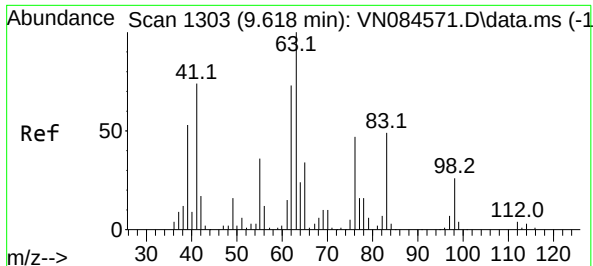
Ion Ratio Lower Upper

43 100

61 12.2 20.4 30.6#

87 7.1 10.3 15.5#





#45

1,2-Dichloropropane

Concen: 0.608 ug/l

RT: 9.753 min Scan# 11

Delta R.T. 0.135 min

Lab File: VN084609.D

Acq: 31 Oct 2024 08:34

Instrument :

MSVOA_N

ClientSampleId :

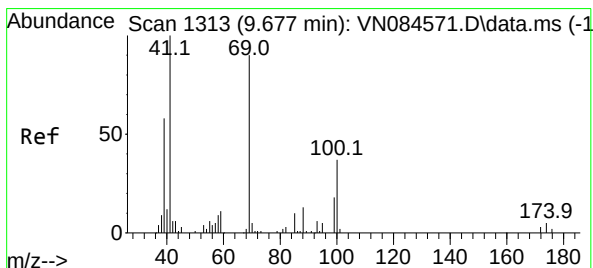
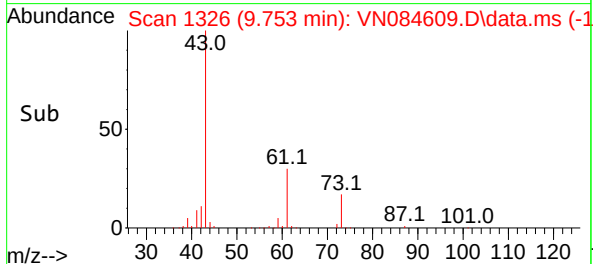
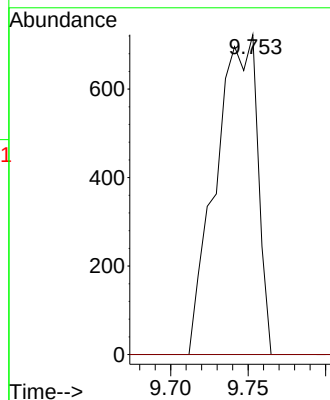
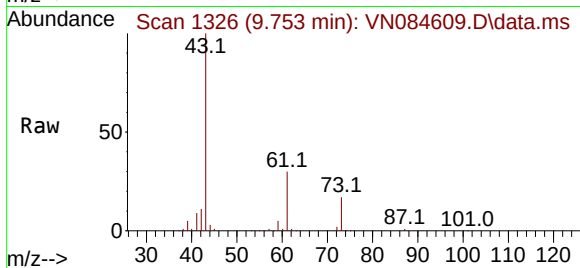
PB164501ZHE#18

Tgt Ion: 63 Resp: 1344

Ion Ratio Lower Upper

63 100

65 0.0 24.6 37.0#



#48

Methyl methacrylate

Concen: 1.526 ug/l

RT: 9.659 min Scan# 1310

Delta R.T. -0.018 min

Lab File: VN084609.D

Acq: 31 Oct 2024 08:34

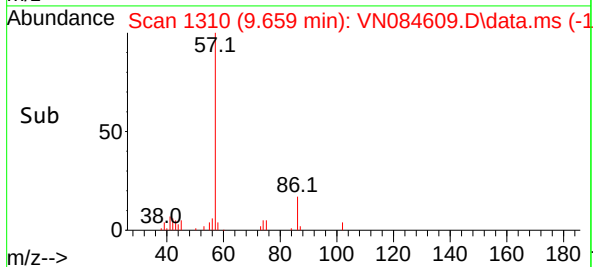
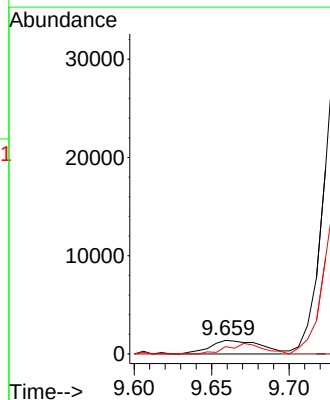
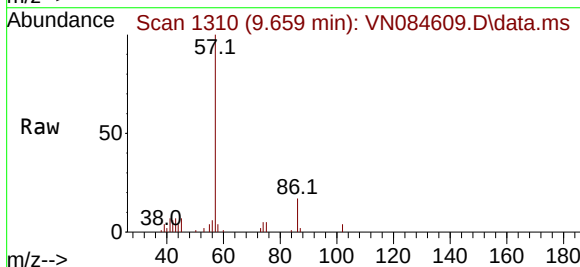
Tgt Ion: 41 Resp: 3162

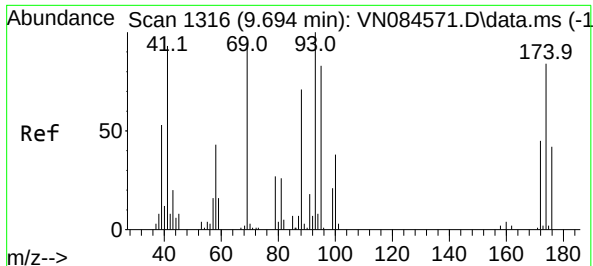
Ion Ratio Lower Upper

41 100

69 0.0 67.1 100.7#

39 54.0 45.8 68.6





#49

1,4-Dioxane

Concen: 1.906 ug/l

RT: 9.747 min Scan# 1316

Delta R.T. 0.053 min

Lab File: VN084609.D

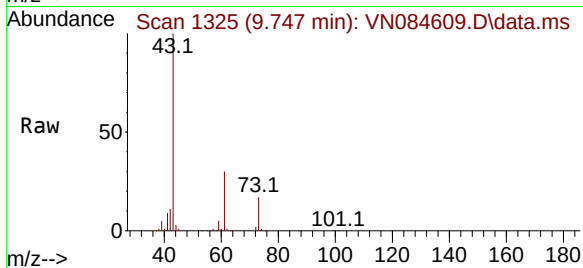
Acq: 31 Oct 2024 08:34

Instrument :

MSVOA_N

ClientSampleId :

PB164501ZHE#18



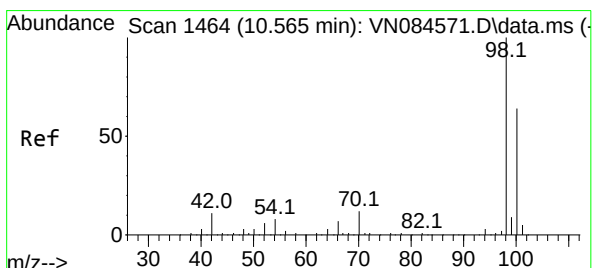
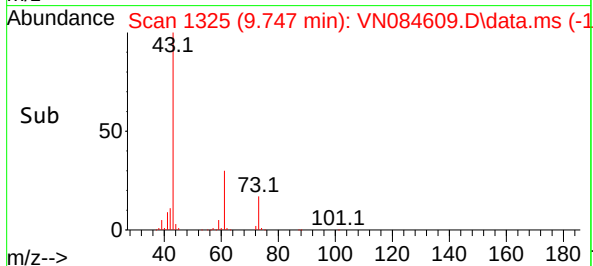
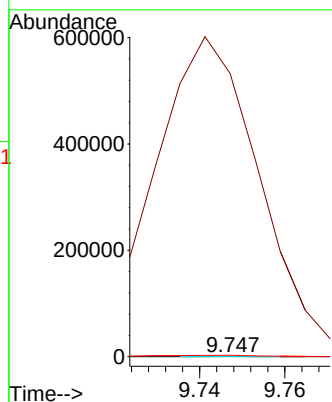
Tgt Ion: 88 Resp: 70

Ion Ratio Lower Upper

88 100

43 1515255.7 25.3 37.9#

58 7308.6 56.4 84.6#



#50

Toluene-d8

Concen: 48.810 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN084609.D

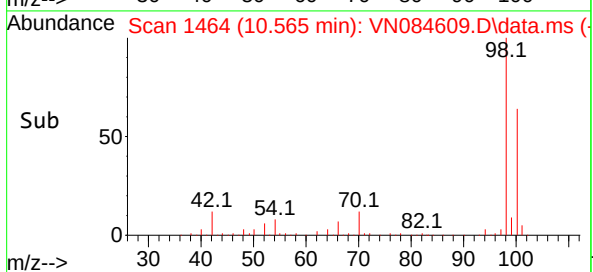
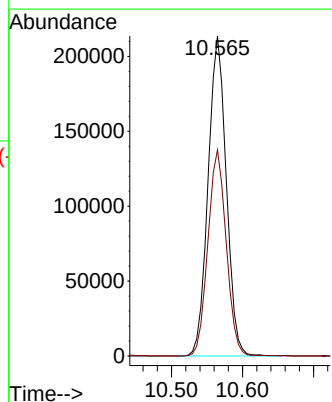
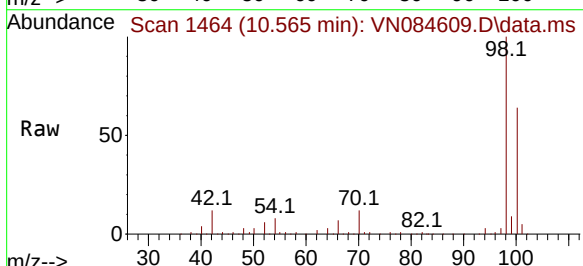
Acq: 31 Oct 2024 08:34

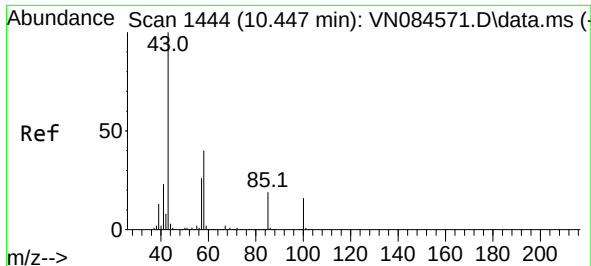
Tgt Ion: 98 Resp: 380435

Ion Ratio Lower Upper

98 100

100 64.9 52.7 79.1

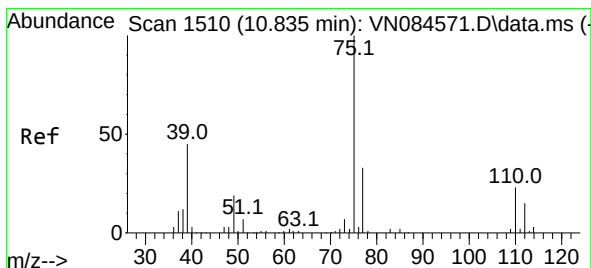
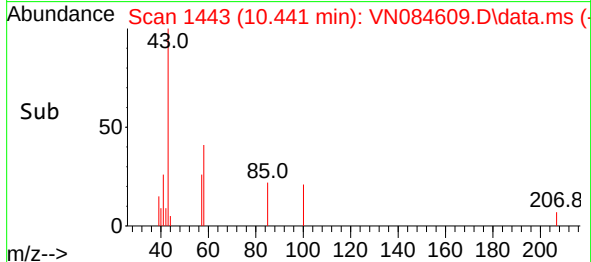
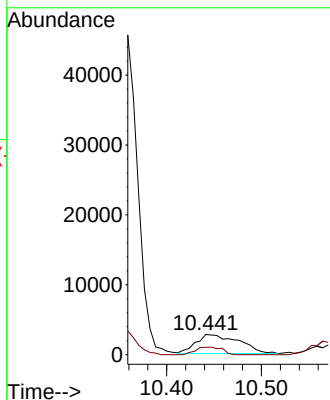
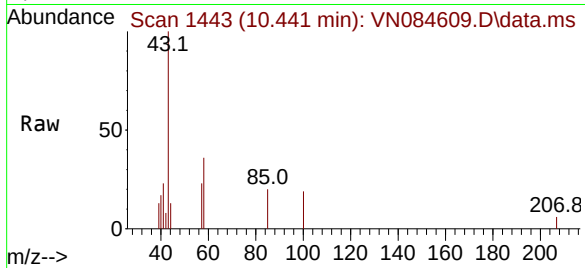




#51
4-Methyl-2-Pentanone
Concen: 3.405 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN084609.D
Acq: 31 Oct 2024 08:34

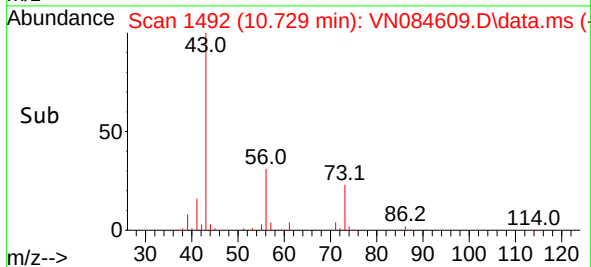
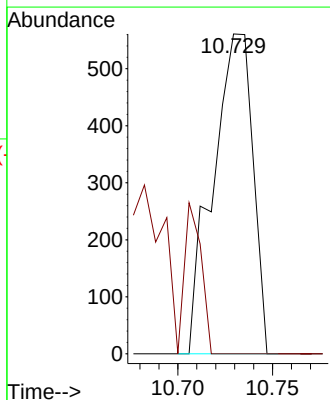
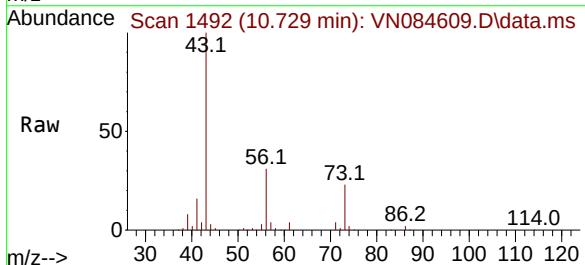
Instrument :
MSVOA_N
ClientSampleId :
PB164501ZHE#18

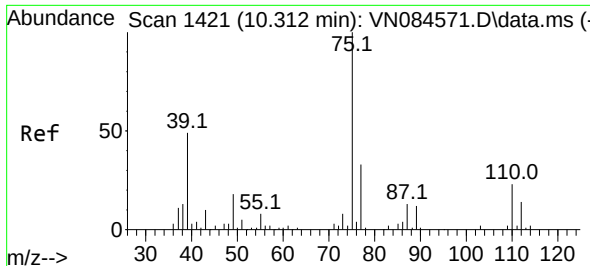
Tgt Ion: 43 Resp: 8643
Ion Ratio Lower Upper
43 100
58 24.3 31.6 47.4#



#53
t-1,3-Dichloropropene
Concen: 0.242 ug/l
RT: 10.729 min Scan# 1492
Delta R.T. -0.106 min
Lab File: VN084609.D
Acq: 31 Oct 2024 08:34

Tgt Ion: 75 Resp: 824
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.0#

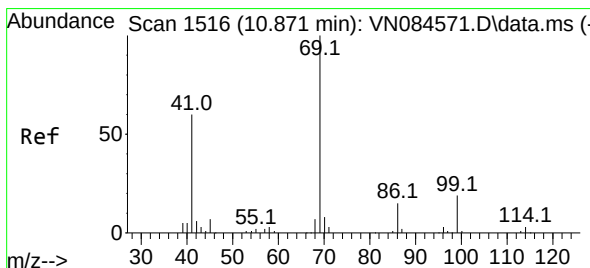
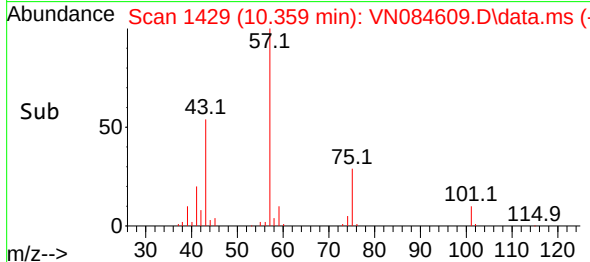
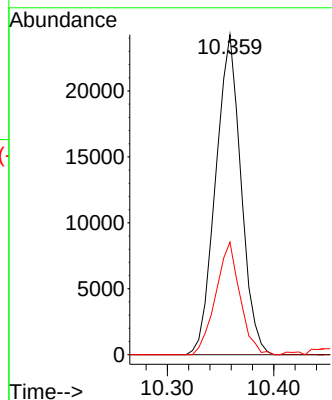
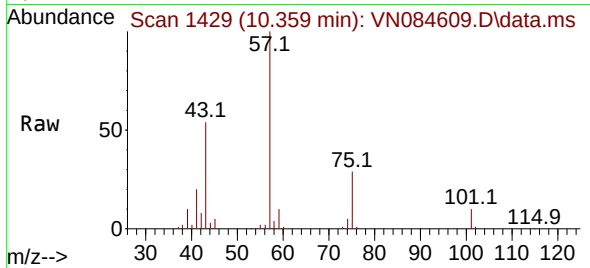




#54
 cis-1,3-Dichloropropene
 Concen: 11.124 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.047 min
 Lab File: VN084609.D
 Acq: 31 Oct 2024 08:34

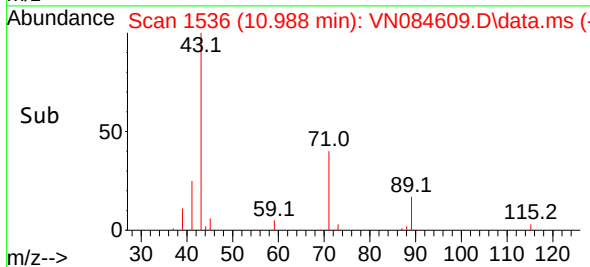
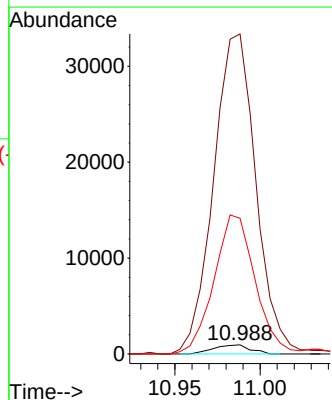
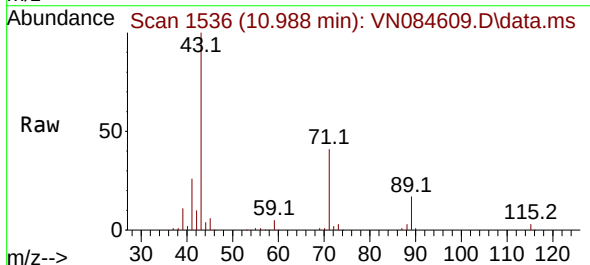
Instrument :
 MSVOA_N
 ClientSampleId :
 PB164501ZHE#18

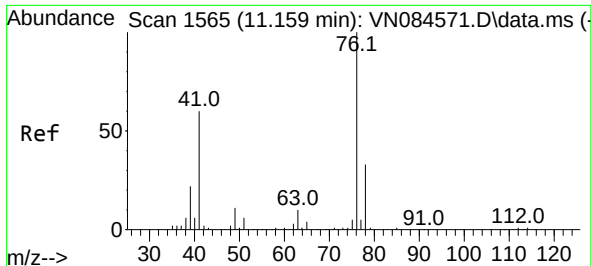
Tgt Ion: 75 Resp: 40073
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.2 36.2#
 39 35.1 38.7 58.1#



#56
 Ethyl methacrylate
 Concen: 0.472 ug/l
 RT: 10.988 min Scan# 1536
 Delta R.T. 0.118 min
 Lab File: VN084609.D
 Acq: 31 Oct 2024 08:34

Tgt Ion: 69 Resp: 1418
 Ion Ratio Lower Upper
 69 100
 41 4094.4 53.3 79.9#
 39 1716.3 28.8 43.2#





#57

1,3-Dichloropropane

Concen: 1.515 ug/l

RT: 11.206 min Scan# 11

Delta R.T. 0.047 min

Lab File: VN084609.D

Acq: 31 Oct 2024 08:34

Instrument :

MSVOA_N

ClientSampleId :

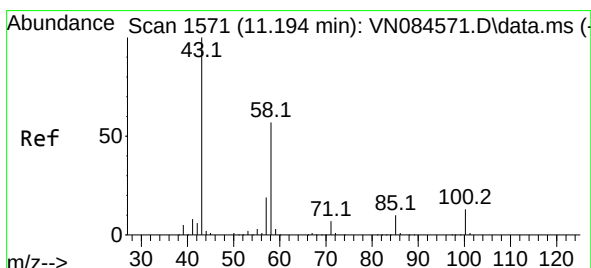
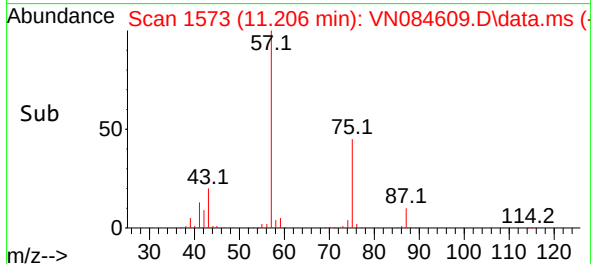
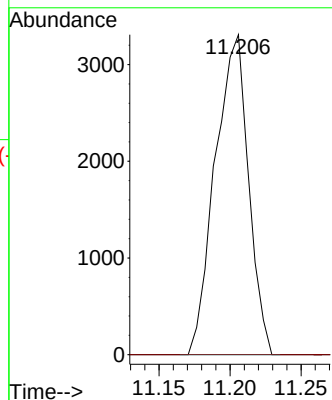
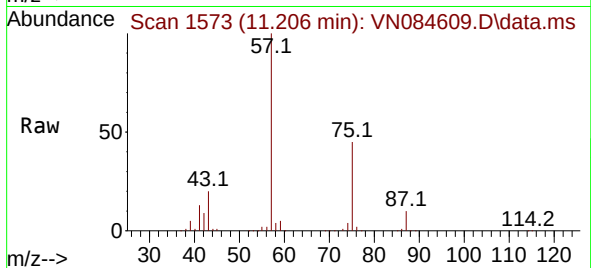
PB164501ZHE#18

Tgt Ion: 76 Resp: 5399

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



#59

2-Hexanone

Concen: 35.296 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN084609.D

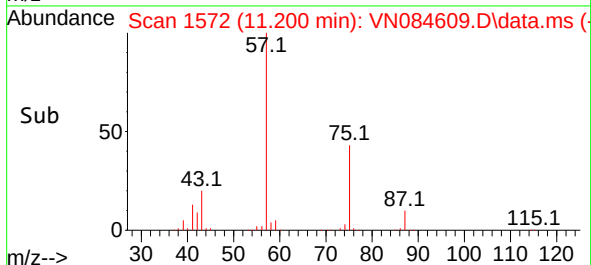
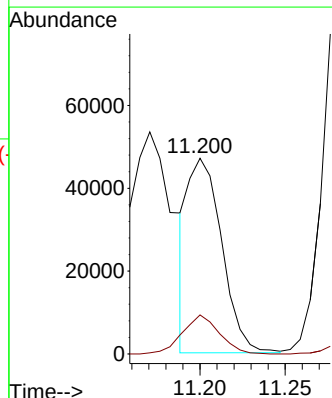
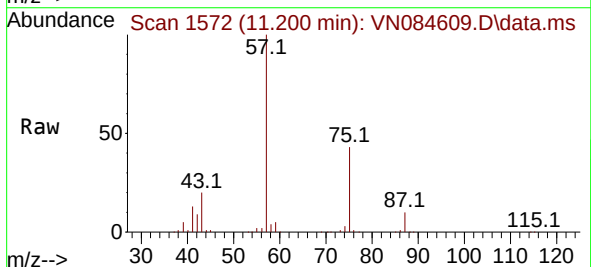
Acq: 31 Oct 2024 08:34

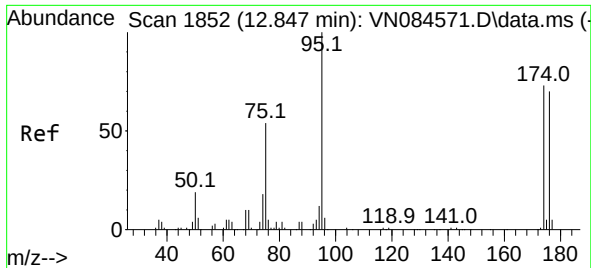
Tgt Ion: 43 Resp: 65208

Ion Ratio Lower Upper

43 100

58 21.8 27.3 81.8#

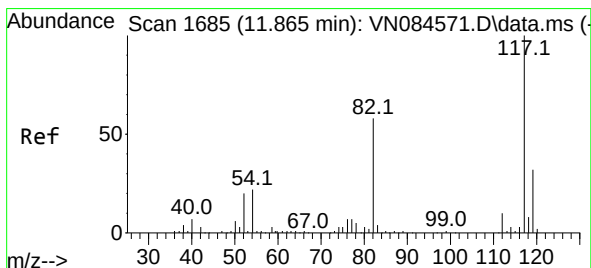
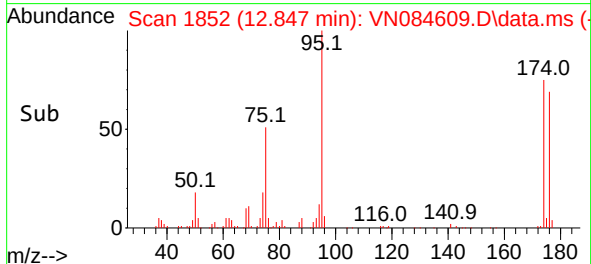
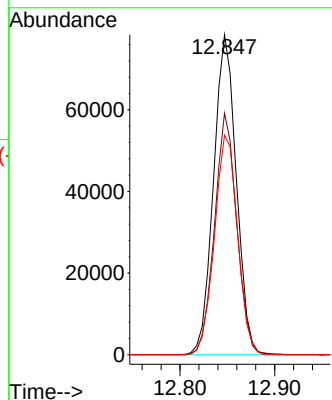
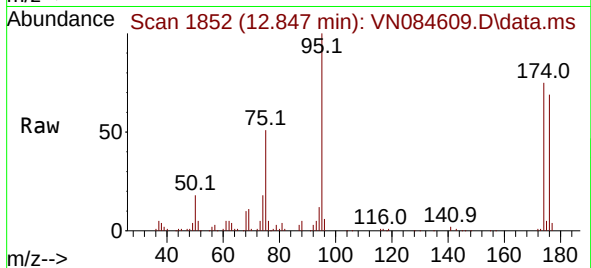




#62
4-Bromofluorobenzene
Concen: 44.891 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN084609.D
Acq: 31 Oct 2024 08:34

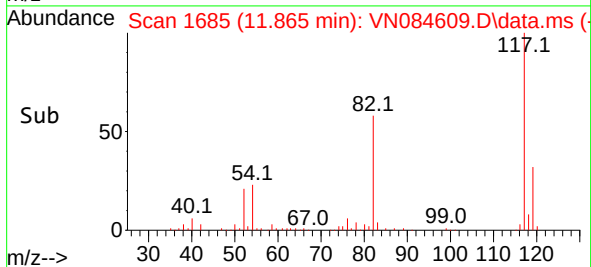
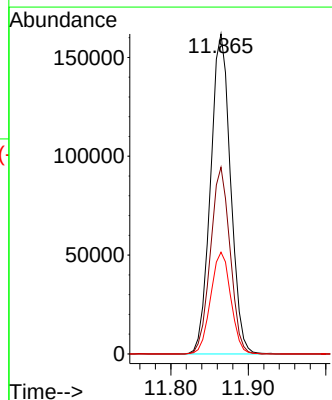
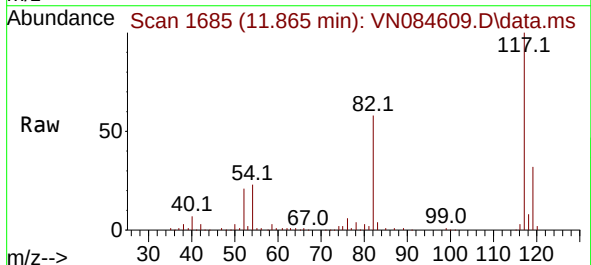
Instrument :
MSVOA_N
ClientSampleId :
PB164501ZHE#18

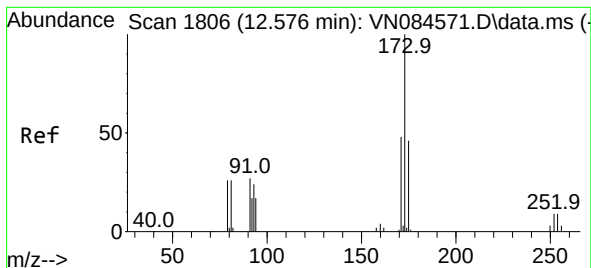
Tgt Ion: 95 Resp: 130767
Ion Ratio Lower Upper
95 100
174 73.7 0.0 145.2
176 69.9 0.0 140.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN084609.D
Acq: 31 Oct 2024 08:34

Tgt Ion: 117 Resp: 289877
Ion Ratio Lower Upper
117 100
82 58.3 47.2 70.8
119 31.8 25.4 38.0





#71

Bromoform

Concen: 0.505 ug/l

RT: 12.841 min Scan# 1806

Delta R.T. 0.265 min

Lab File: VN084609.D

Acq: 31 Oct 2024 08:34

Instrument :

MSVOA_N

ClientSampleId :

PB164501ZHE#18

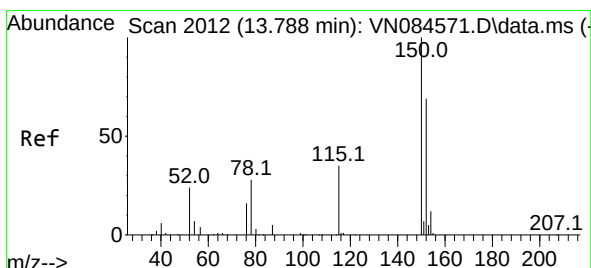
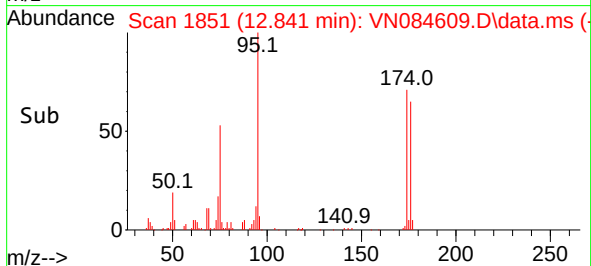
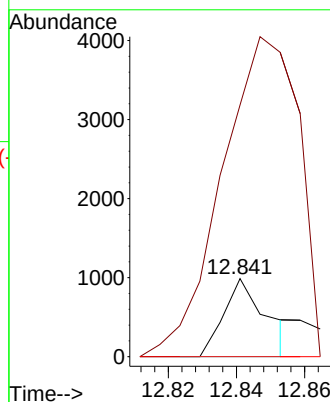
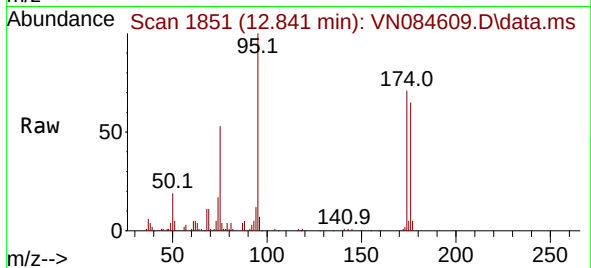
Tgt Ion:173 Resp: 857

Ion Ratio Lower Upper

173 100

175 613.0 23.5 70.6#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VN084609.D

Acq: 31 Oct 2024 08:34

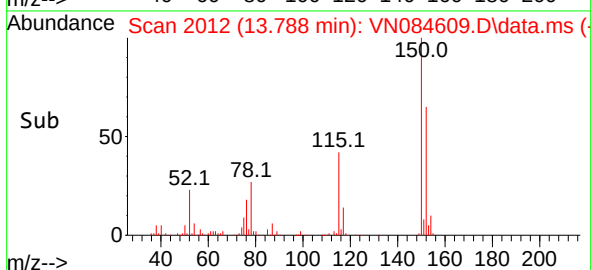
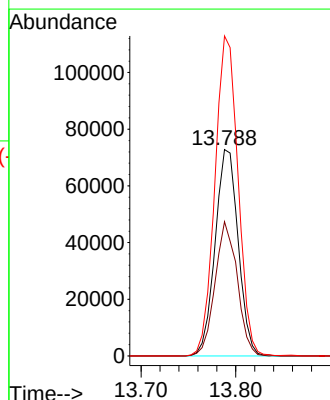
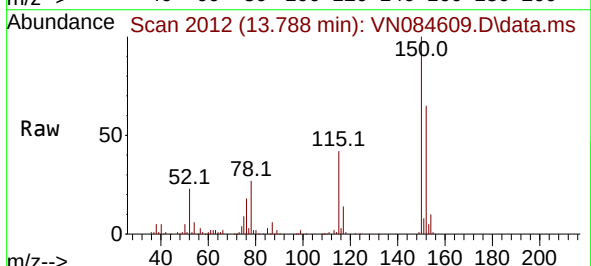
Tgt Ion:152 Resp: 123376

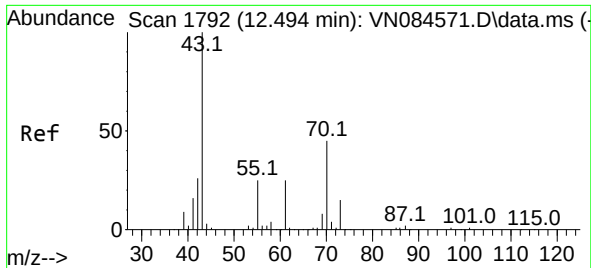
Ion Ratio Lower Upper

152 100

115 62.6 31.3 93.9

150 155.2 0.0 349.8

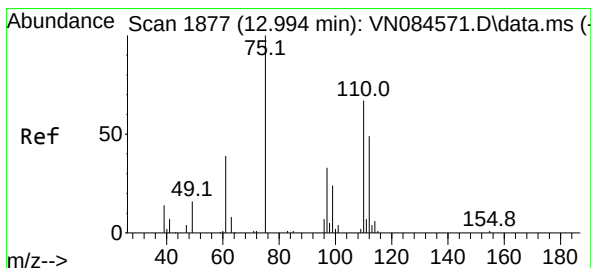
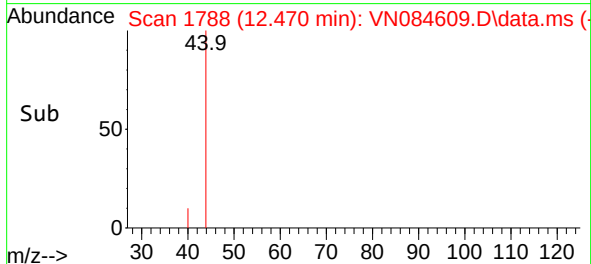
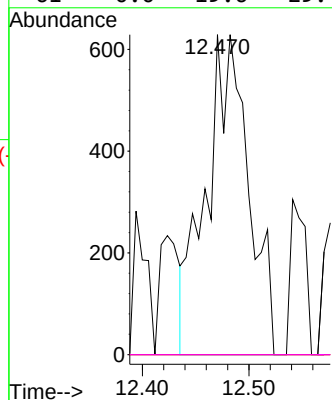
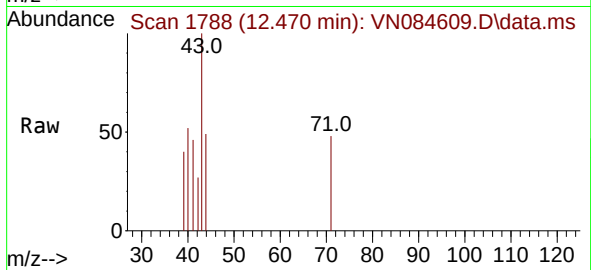




#74
N-amy1 acetate
Concen: 0.474 ug/l
RT: 12.470 min Scan# 1745
Delta R.T. -0.024 min
Lab File: VN084609.D
Acq: 31 Oct 2024 08:34

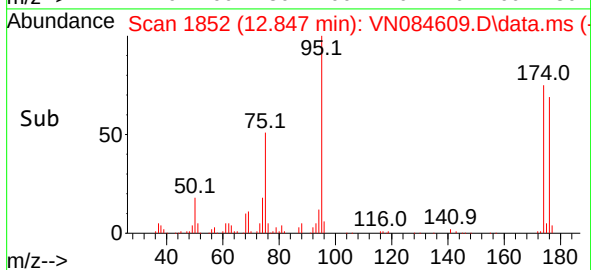
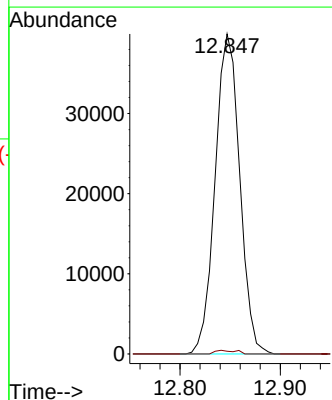
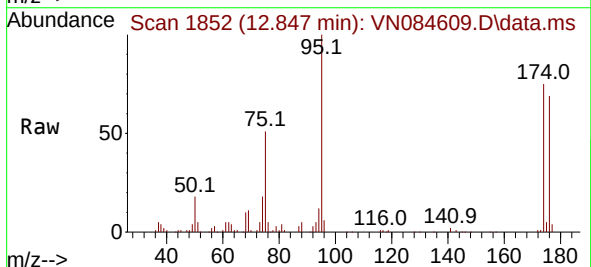
Instrument :
MSVOA_N
ClientSampleId :
PB164501ZHE#18

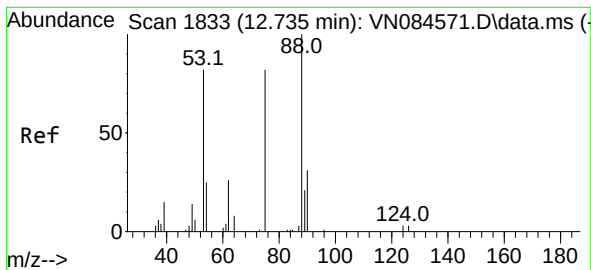
Tgt Ion:	43	Resp:	1745
Ion	Ratio	Lower	Upper
43	100		
70	0.0	34.4	51.6#
55	0.0	19.6	29.4#
61	0.0	19.6	29.4#



#76
1,2,3-Trichloropropane
Concen: 27.595 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN084609.D
Acq: 31 Oct 2024 08:34

Tgt Ion:	75	Resp:	68056
Ion	Ratio	Lower	Upper
75	100		
77	0.9	96.9	290.7#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 65.467 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN084609.D
 Acq: 31 Oct 2024 08:34

Instrument :
 MSVOA_N
 ClientSampleId :
 PB164501ZHE#18

Tgt Ion: 75 Resp: 68056
 Ion Ratio Lower Upper
 75 100
 53 0.0 78.0 117.0#
 89 0.0 35.5 53.3#

