

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122923\
 Data File : VN080613.D
 Acq On : 29 Dec 2023 14:24
 Operator : JC\MD
 Sample : PB158132ZHE#05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB158132ZHE#05

Quant Time: Dec 29 23:42:47 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122723W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 28 03:07:01 2023
 Response via : Initial Calibration

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

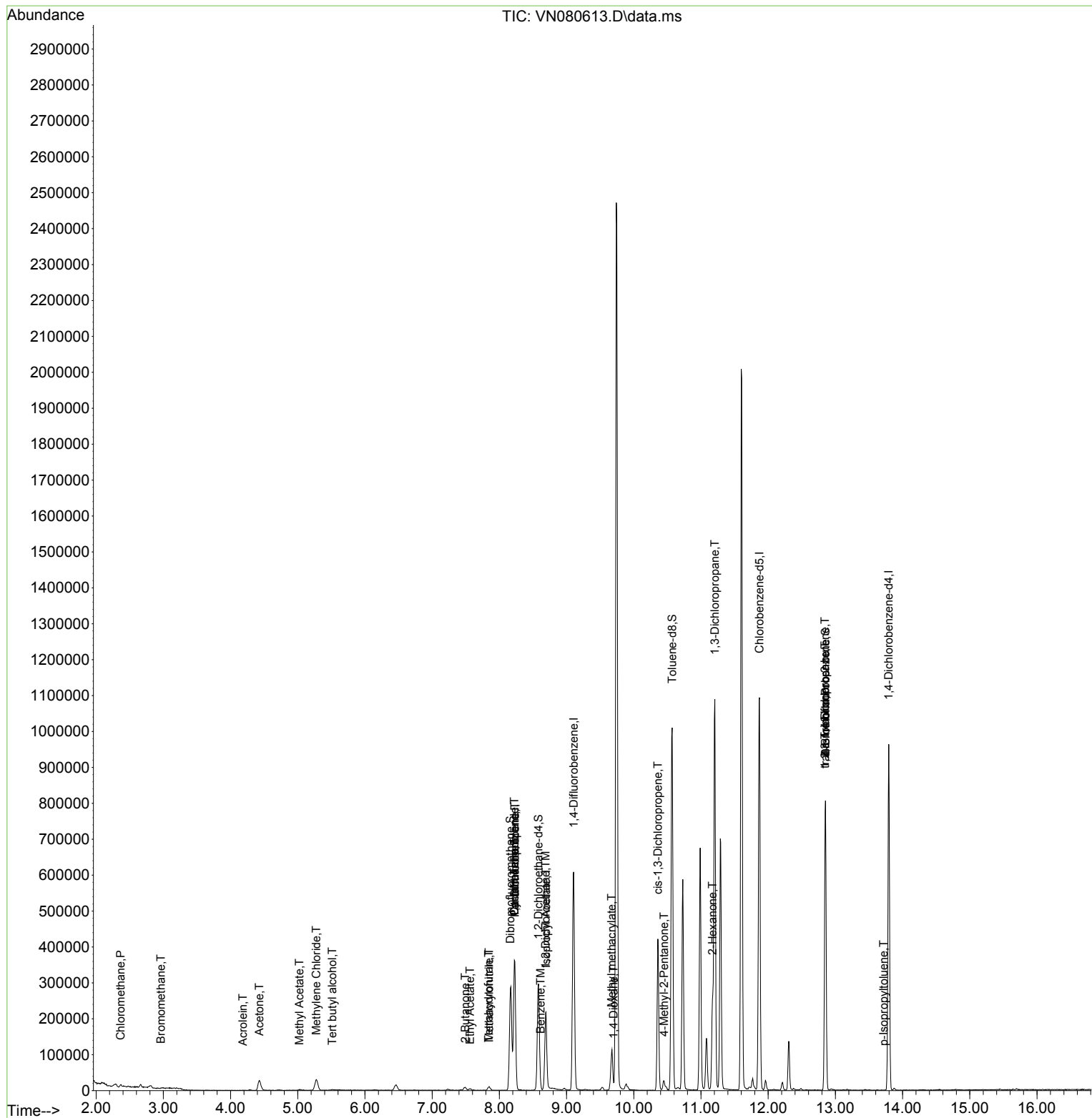
Internal Standards						
1) Pentafluorobenzene	8.230	168	267436	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	544722	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	641941	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	251413	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	243349	70.938	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 141.880%#			
35) Dibromofluoromethane	8.165	113	211768	60.110	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 120.220%			
50) Toluene-d8	10.571	98	725218	58.957	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 117.920%#			
62) 4-Bromofluorobenzene	12.853	95	290788	70.243	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 140.480%#			
Target Compounds						Qvalue
3) Chloromethane	2.365	50	9444	1.903	ug/l	99
5) Bromomethane	2.965	94	694	0.552	ug/l #	75
11) Tert butyl alcohol	5.512	59	2405	5.211	ug/l #	88
13) Acrolein	4.183	56	321	0.615	ug/l #	38
16) Acetone	4.430	43	53173	57.021	ug/l	98
18) Methyl Acetate	5.024	43	3771	0.729	ug/l #	42
20) Methylene Chloride	5.277	84	25119	8.442	ug/l	89
25) 2-Butanone	7.494	43	13976	8.019	ug/l #	82
29) Tetrahydrofuran	7.841	42	6903	6.073	ug/l #	84
31) Cyclohexane	8.224	56	5624	1.212	ug/l #	1
36) 1,1-Dichloropropene	8.230	75	21881	4.036	ug/l #	47
37) Ethyl Acetate	7.565	43	6557	1.603	ug/l #	68
38) Carbon Tetrachloride	8.224	117	28617	5.159	ug/l #	17
40) Benzene	8.612	78	212	0.385	ug/l #	52
41) Methacrylonitrile	7.847	41	4626	1.834	ug/l #	34
42) 1,2-Dichloroethane	8.688	62	1434	0.285	ug/l #	73
43) Isopropyl Acetate	8.694	43	241064	36.352	ug/l #	86
48) Methyl methacrylate	9.671	41	6248	1.697	ug/l #	27
49) 1,4-Dioxane	9.700	88	456	7.748	ug/l #	30
51) 4-Methyl-2-Pentanone	10.453	43	24351	6.456	ug/l #	78
54) cis-1,3-Dichloropropene	10.359	75	79461	13.551	ug/l #	61
57) 1,3-Dichloropropane	11.206	76	10908	1.883	ug/l #	42
59) 2-Hexanone	11.171	43	194544	68.436	ug/l #	19
71) Bromoform	12.853	173	1432	0.394	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	146611	27.113	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	146611	73.441	ug/l #	15
86) p-Isopropyltoluene	13.717	119	82	0.460	ug/l #	50

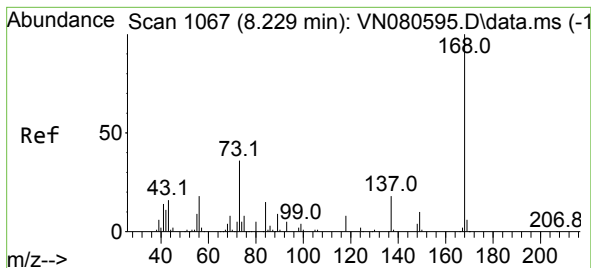
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Dec 28 03:07:01 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 10

Delta R.T. 0.001 min

Lab File: VN080613.D

Acq: 29 Dec 2023 14:24

Instrument :

MSVOA_N

ClientSampleId :

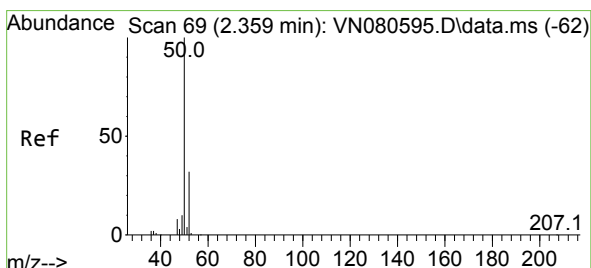
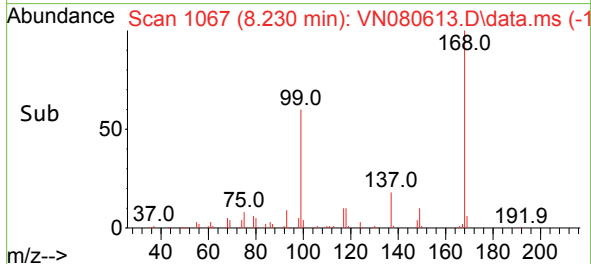
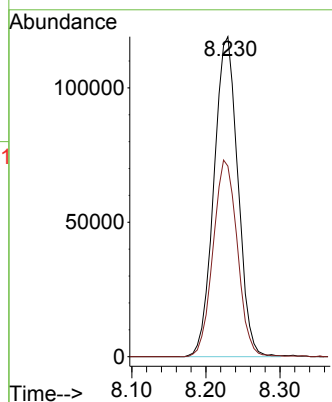
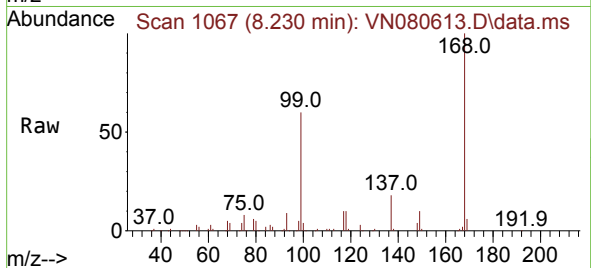
PB158132ZHE#05

Tgt Ion:168 Resp: 267436

Ion Ratio Lower Upper

168 100

99 59.5 53.0 79.6



#3

Chloromethane

Concen: 1.903 ug/l

RT: 2.365 min Scan# 70

Delta R.T. 0.006 min

Lab File: VN080613.D

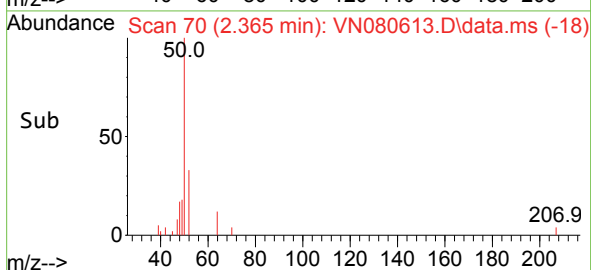
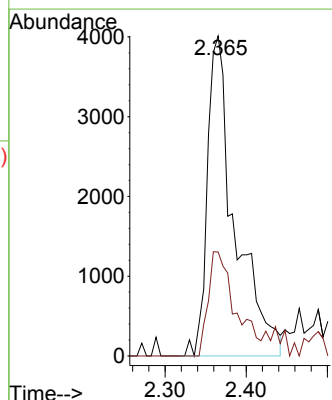
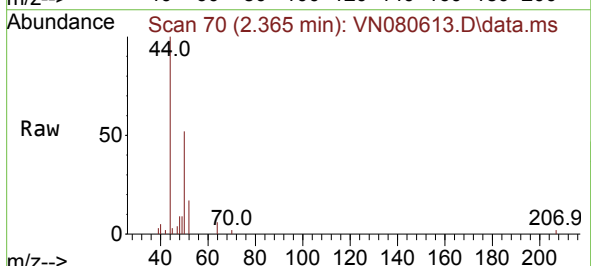
Acq: 29 Dec 2023 14:24

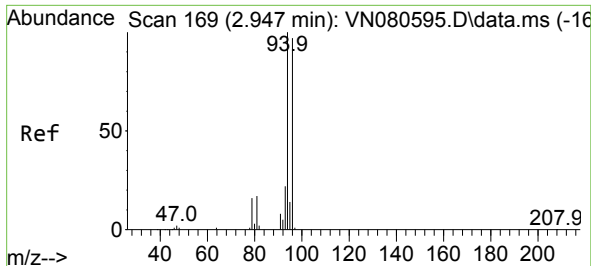
Tgt Ion: 50 Resp: 9444

Ion Ratio Lower Upper

50 100

52 32.5 26.5 39.7

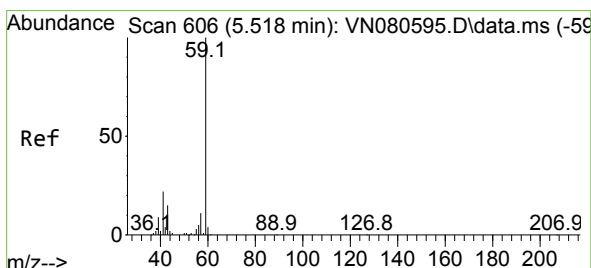
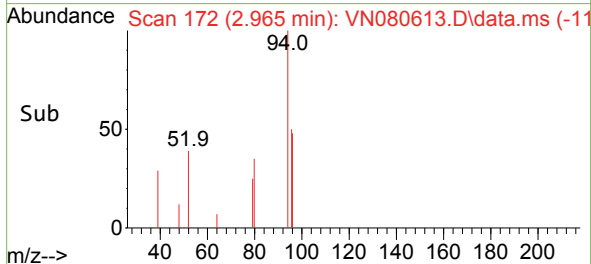
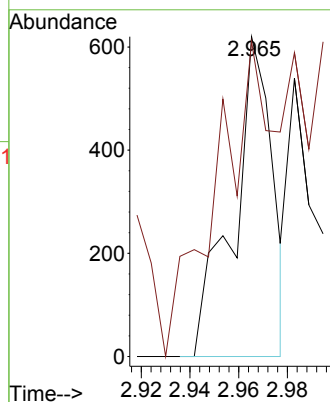
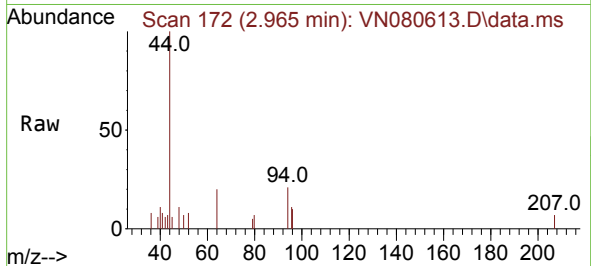




#5
Bromomethane
Concen: 0.552 ug/l
RT: 2.965 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN080613.D
Acq: 29 Dec 2023 14:24

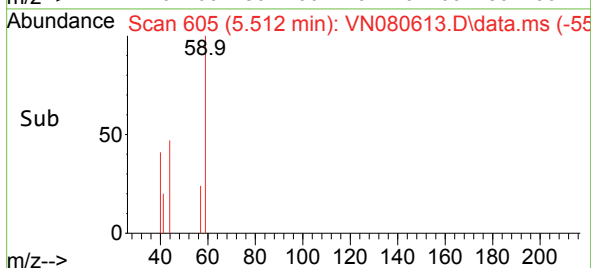
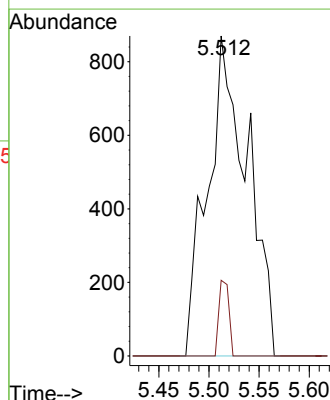
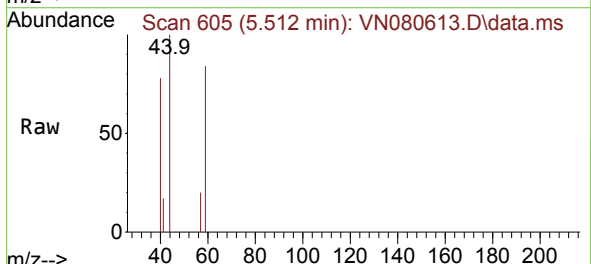
Instrument :
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ClientSampleId :
PB158132ZHE#05

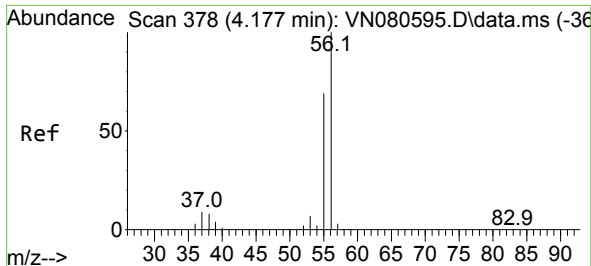
Tgt Ion: 94 Resp: 694
Ion Ratio Lower Upper
94 100
96 67.3 73.1 109.7#



#11
Tert butyl alcohol
Concen: 5.211 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.006 min
Lab File: VN080613.D
Acq: 29 Dec 2023 14:24

Tgt Ion: 59 Resp: 2405
Ion Ratio Lower Upper
59 100
57 5.9 8.2 12.4#





#13

Acrolein

Concen: 0.615 ug/l

RT: 4.183 min Scan# 31

Delta R.T. 0.006 min

Lab File: VN080613.D

Acq: 29 Dec 2023 14:24

Instrument :

MSVOA_N

ClientSampleId :

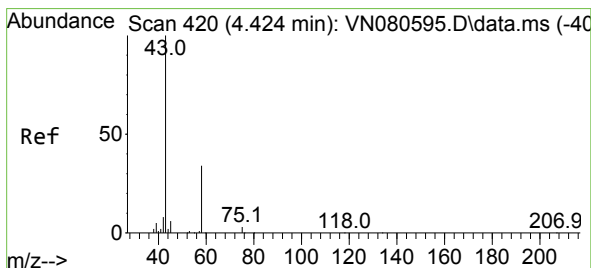
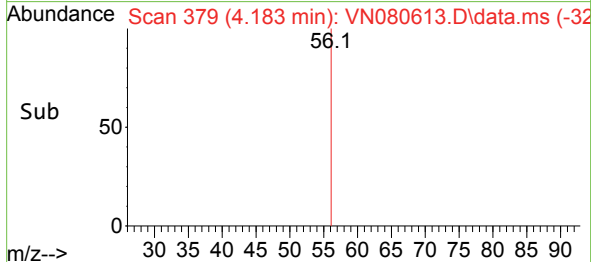
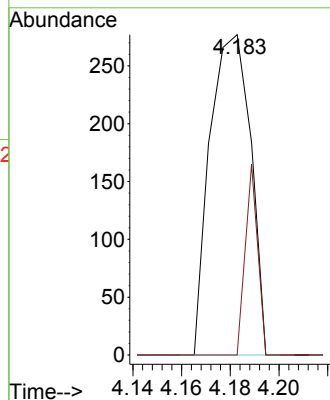
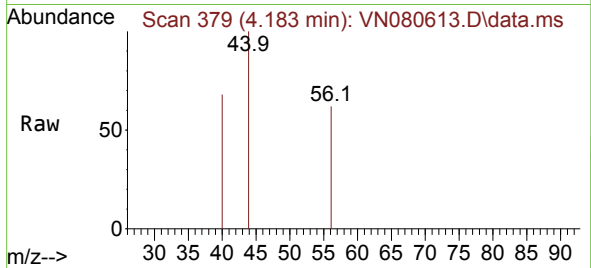
PB158132ZHE#05

Tgt Ion: 56 Resp: 321

Ion Ratio Lower Upper

56 100

55 18.1 54.5 81.7#



#16

Acetone

Concen: 57.021 ug/l

RT: 4.430 min Scan# 421

Delta R.T. 0.006 min

Lab File: VN080613.D

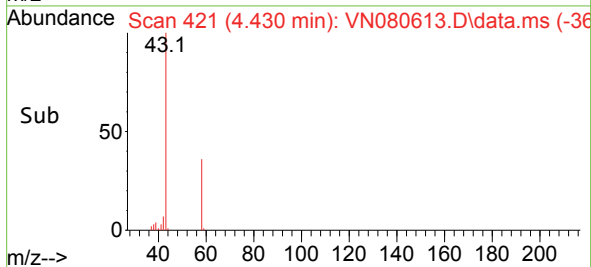
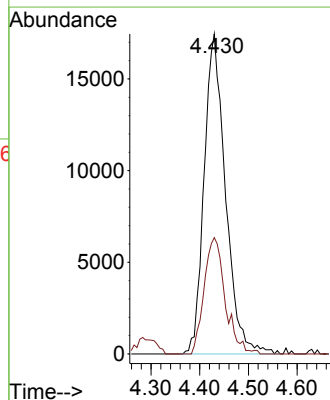
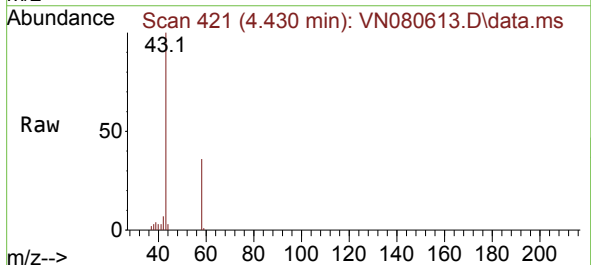
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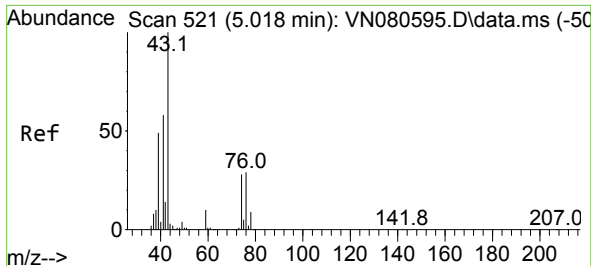
Tgt Ion: 43 Resp: 53173

Ion Ratio Lower Upper

43 100

58 36.3 28.0 42.0

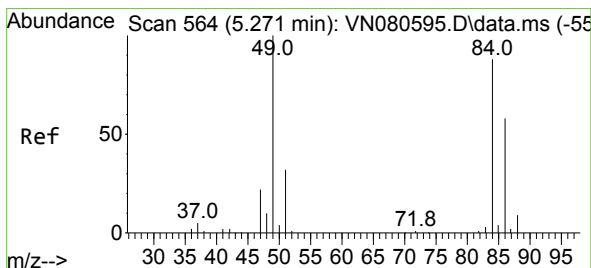
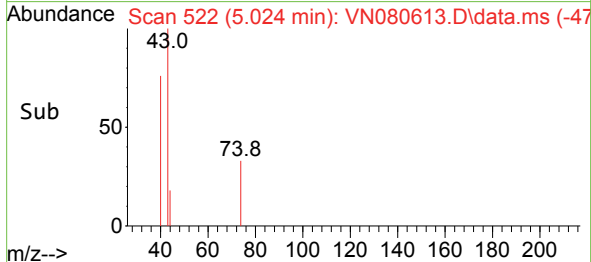
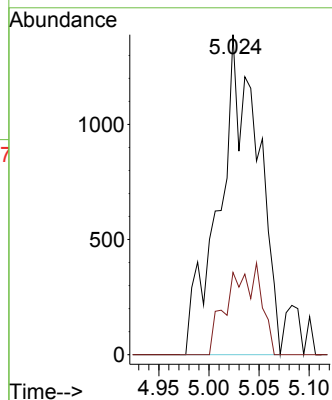
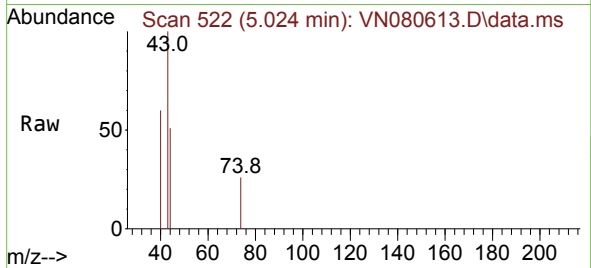




#18
Methyl Acetate
Concen: 0.729 ug/l
RT: 5.024 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN080613.D
Acq: 29 Dec 2023 14:24

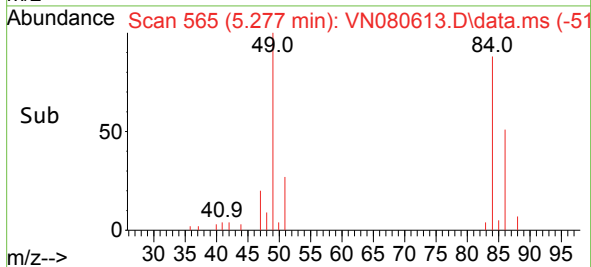
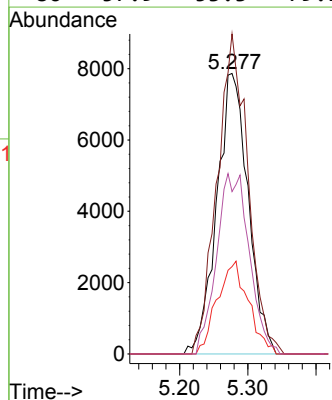
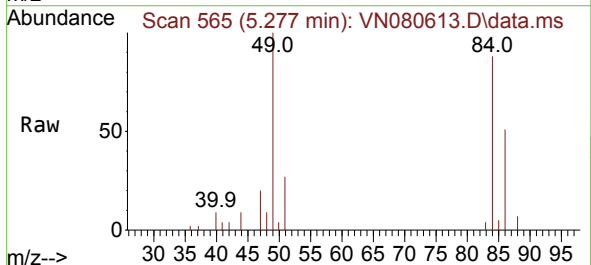
Instrument :
MSVOA_N
ClientSampleId :
PB158132ZHE#05

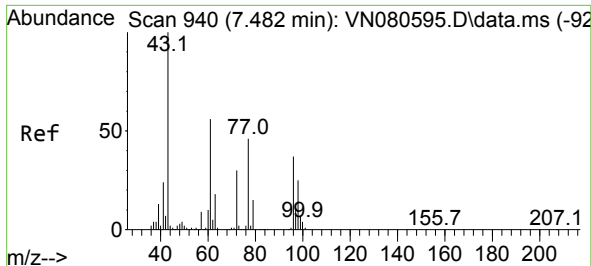
Tgt Ion: 43 Resp: 3771
Ion Ratio Lower Upper
43 100
74 0.0 26.2 39.4#



#20
Methylene Chloride
Concen: 8.442 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN080613.D
Acq: 29 Dec 2023 14:24

Tgt Ion: 84 Resp: 25119
Ion Ratio Lower Upper
84 100
49 114.1 79.7 119.5
51 31.2 25.2 37.8
86 57.9 53.3 79.9

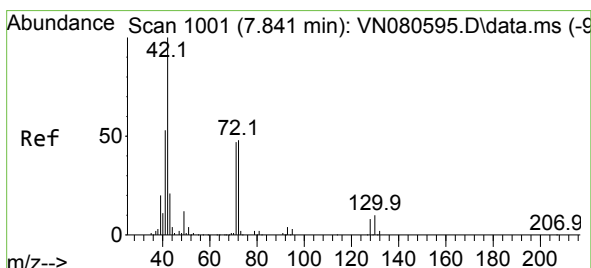
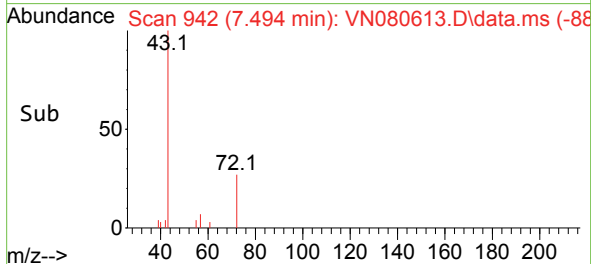
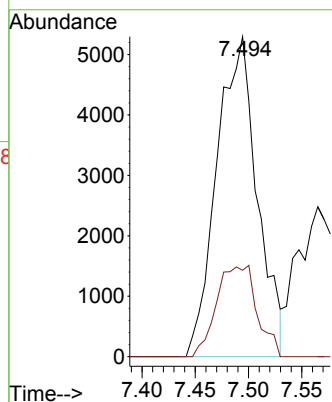
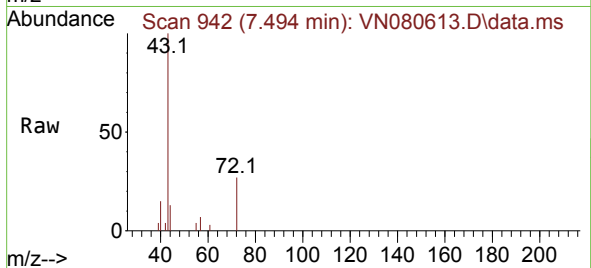




#25
2-Butanone
Concen: 8.019 ug/l
RT: 7.494 min Scan# 940
Delta R.T. 0.012 min
Lab File: VN080613.D
Acq: 29 Dec 2023 14:24

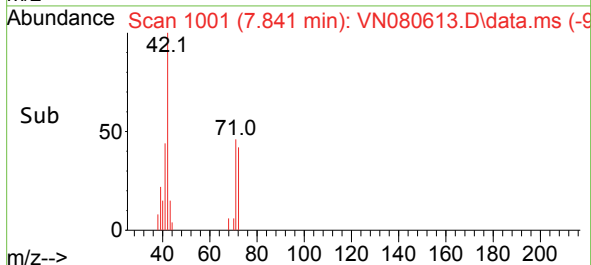
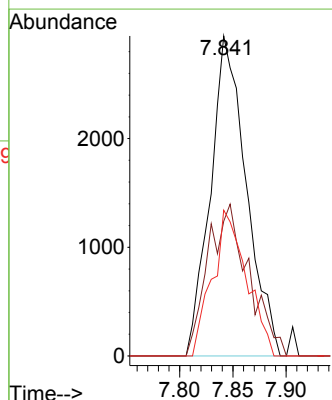
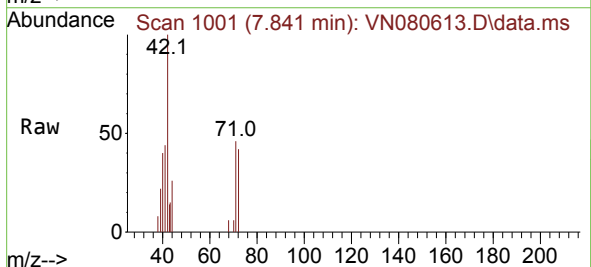
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MSVOA_N
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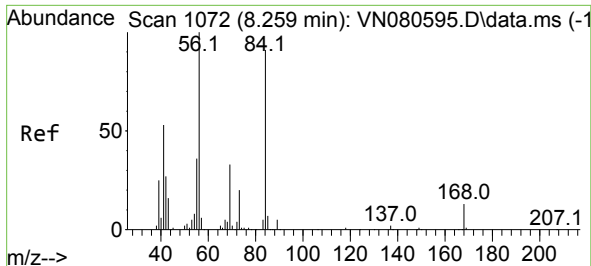
Tgt Ion: 43 Resp: 13976
Ion Ratio Lower Upper
43 100
72 27.0 30.2 45.2#



#29
Tetrahydrofuran
Concen: 6.073 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.000 min
Lab File: VN080613.D
Acq: 29 Dec 2023 14:24

Tgt Ion: 42 Resp: 6903
Ion Ratio Lower Upper
42 100
72 54.0 49.8 74.6
71 43.5 47.4 71.2#

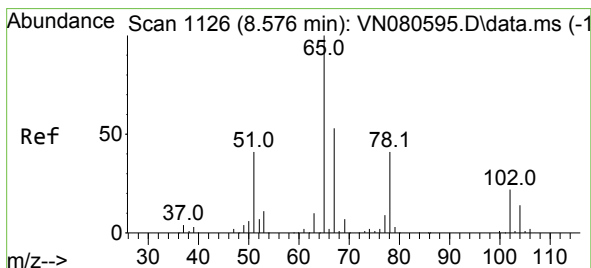
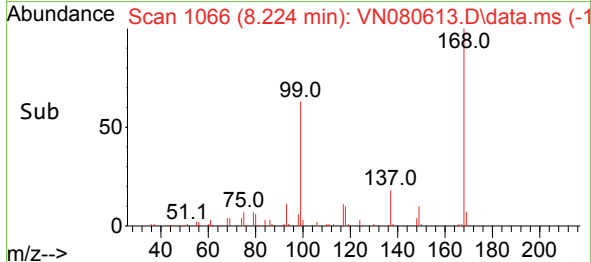
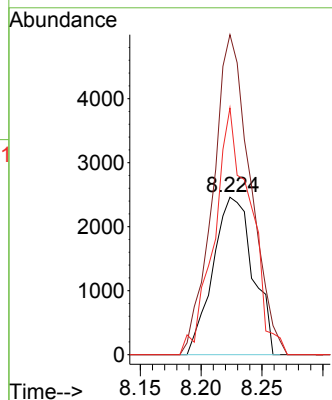
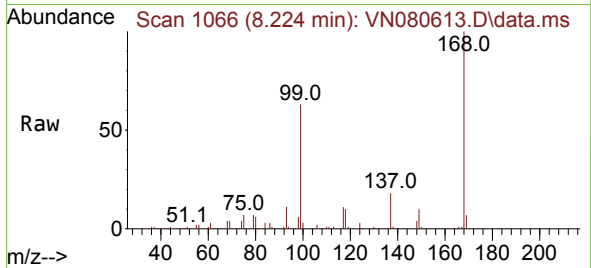




#31
Cyclohexane
Concen: 1.212 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.035 min
Lab File: VN080613.D
Acq: 29 Dec 2023 14:24

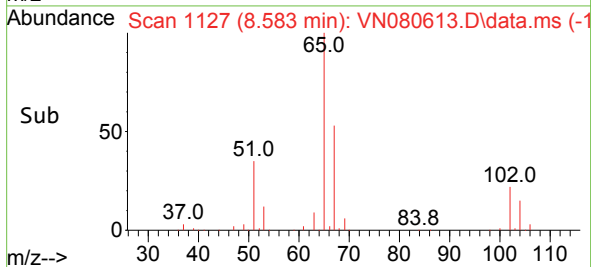
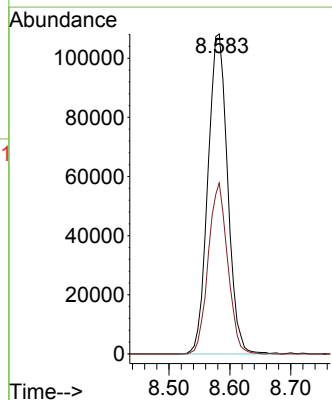
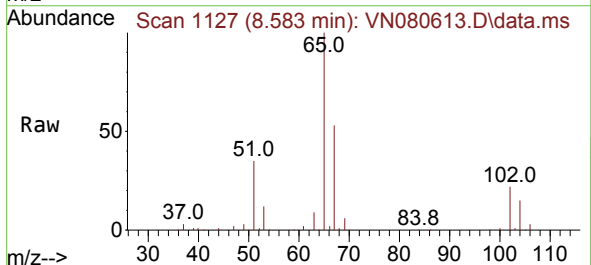
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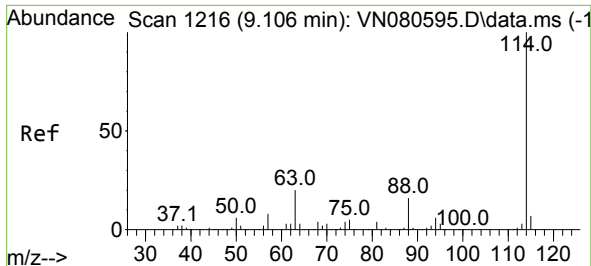
Tgt Ion: 56 Resp: 5624
Ion Ratio Lower Upper
56 100
69 203.2 26.8 40.2#
84 156.7 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 70.938 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. 0.006 min
Lab File: VN080613.D
Acq: 29 Dec 2023 14:24

Tgt Ion: 65 Resp: 243349
Ion Ratio Lower Upper
65 100
67 52.5 0.0 106.6

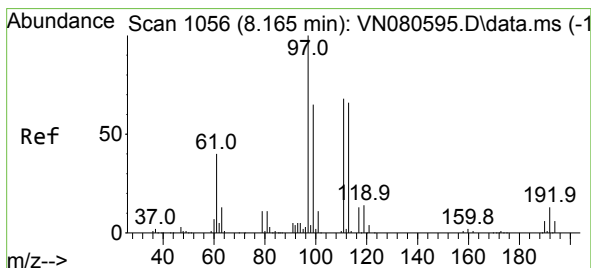
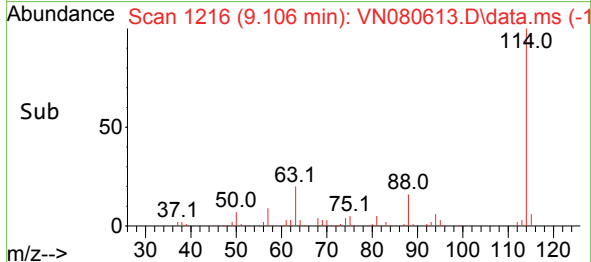
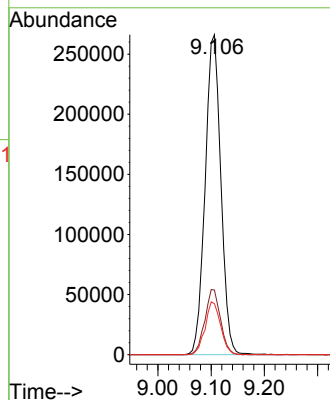
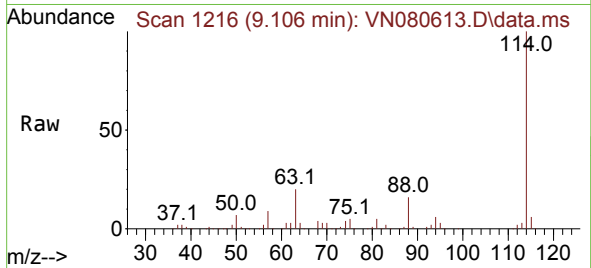




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN080613.D
Acq: 29 Dec 2023 14:24

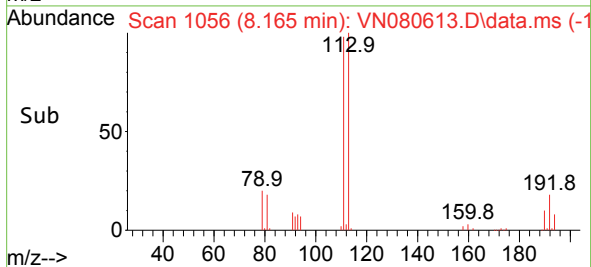
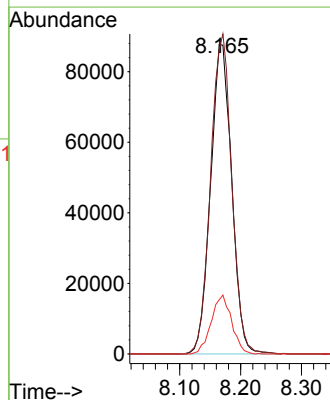
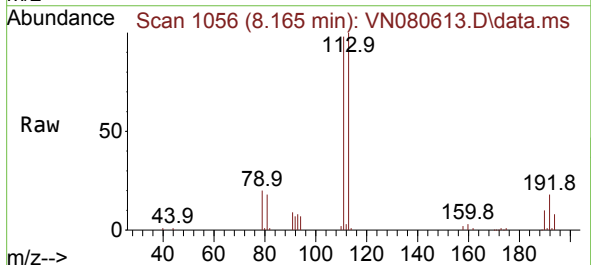
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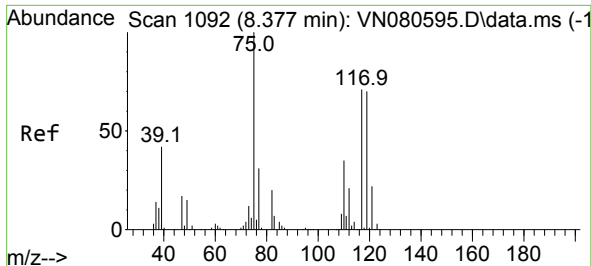
Tgt Ion:114 Resp: 544722
Ion Ratio Lower Upper
114 100
63 20.2 0.0 36.4
88 16.0 0.0 30.6



#35
Dibromofluoromethane
Concen: 60.110 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN080613.D
Acq: 29 Dec 2023 14:24

Tgt Ion:113 Resp: 211768
Ion Ratio Lower Upper
113 100
111 103.2 82.6 123.8
192 18.3 12.7 19.1

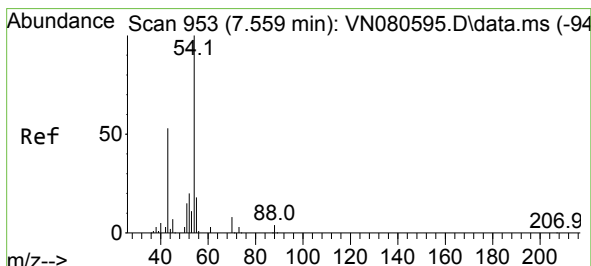
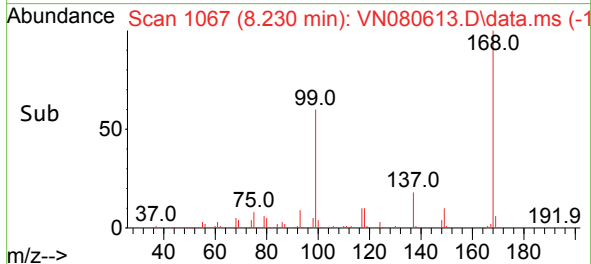
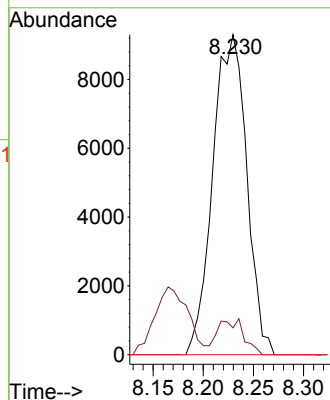
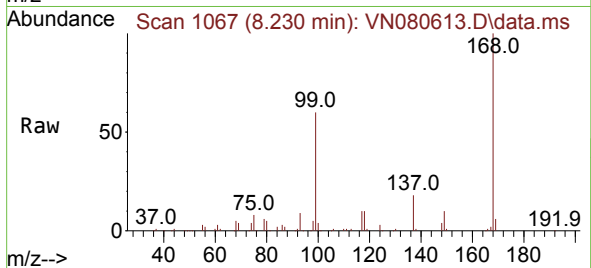




#36
1,1-Dichloropropene
Concen: 4.036 ug/l
RT: 8.230 min Scan# 1092
Delta R.T. -0.147 min
Lab File: VN080613.D
Acq: 29 Dec 2023 14:24

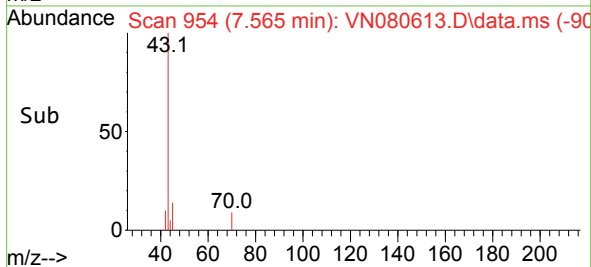
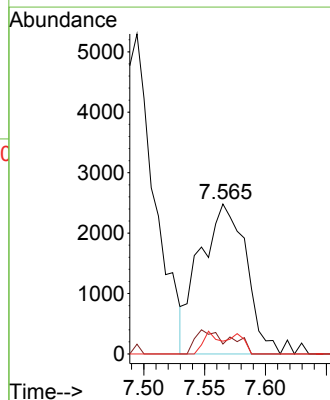
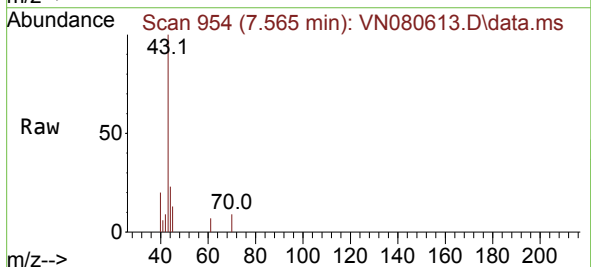
Instrument :
MSVOA_N
ClientSampleId :
PB158132ZHE#05

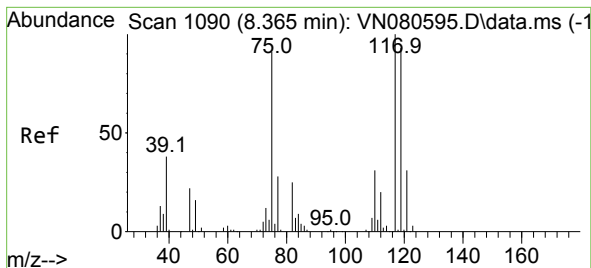
Tgt Ion: 75 Resp: 21881
Ion Ratio Lower Upper
75 100
110 8.4 19.1 57.3#
77 0.0 25.0 37.4#



#37
Ethyl Acetate
Concen: 1.603 ug/l
RT: 7.565 min Scan# 954
Delta R.T. 0.006 min
Lab File: VN080613.D
Acq: 29 Dec 2023 14:24

Tgt Ion: 43 Resp: 6557
Ion Ratio Lower Upper
43 100
61 0.0 13.2 19.8#
70 4.4 11.3 16.9#





#38

Carbon Tetrachloride

Concen: 5.159 ug/l

RT: 8.224 min Scan# 110

Delta R.T. -0.141 min

Lab File: VN080613.D

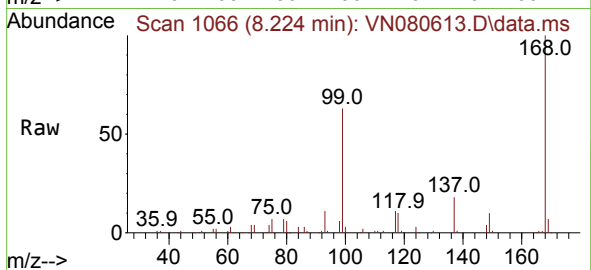
Acq: 29 Dec 2023 14:24

Instrument :

MSVOA_N

ClientSampleId :

PB158132ZHE#05



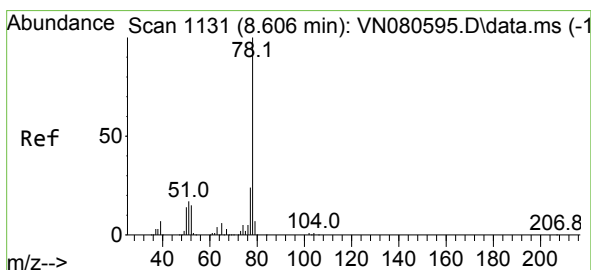
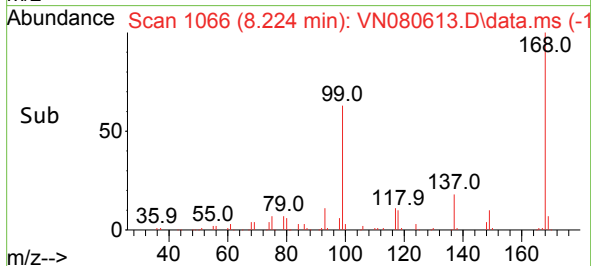
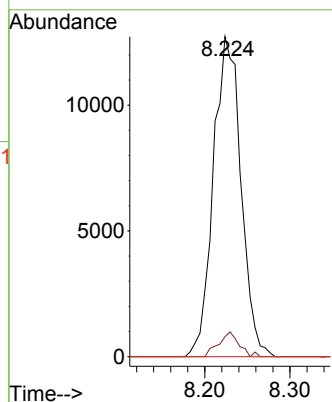
Tgt Ion:117 Resp: 28617

Ion Ratio Lower Upper

117 100

119 6.2 77.3 115.9#

121 0.0 23.3 34.9#



#40

Benzene

Concen: 0.385 ug/l

RT: 8.612 min Scan# 1132

Delta R.T. 0.006 min

Lab File: VN080613.D

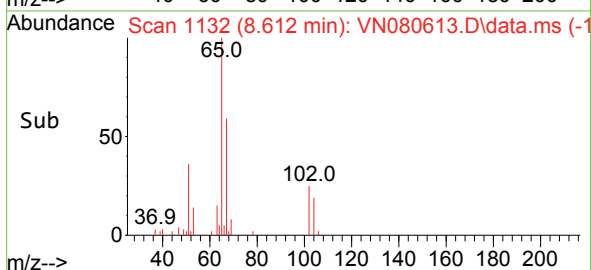
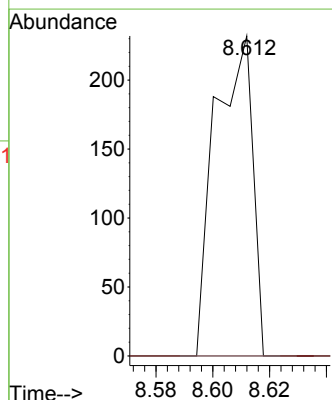
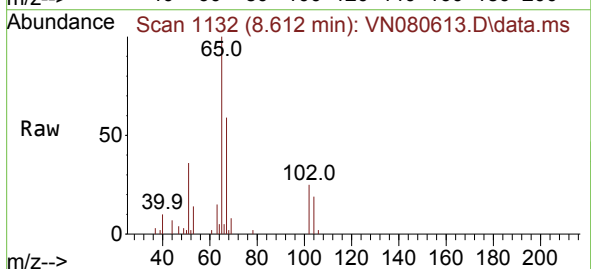
Acq: 29 Dec 2023 14:24

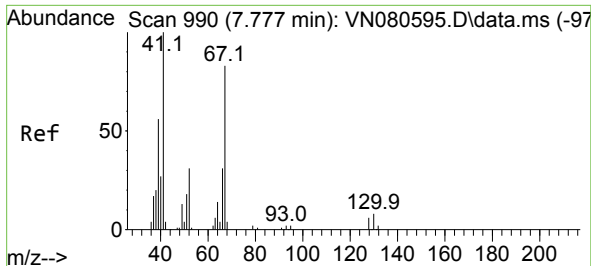
Tgt Ion: 78 Resp: 212

Ion Ratio Lower Upper

78 100

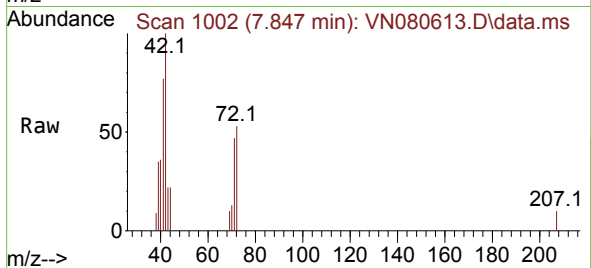
77 0.0 19.0 28.6#



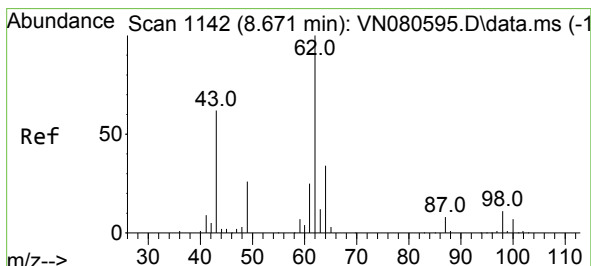
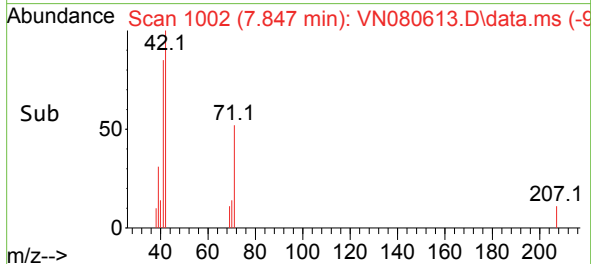
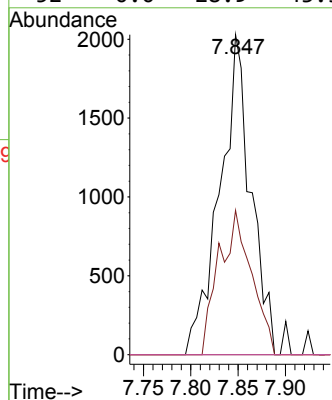


#41
Methacrylonitrile
Concen: 1.834 ug/l
RT: 7.847 min Scan# 1002
Delta R.T. 0.071 min
Lab File: VN080613.D
Acq: 29 Dec 2023 14:24

Instrument :
MSVOA_N
ClientSampleId :
PB158132ZHE#05

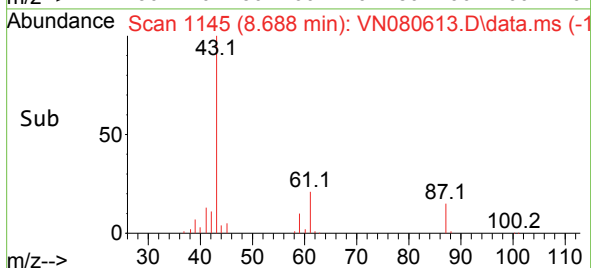
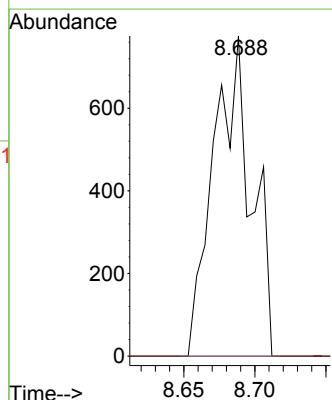
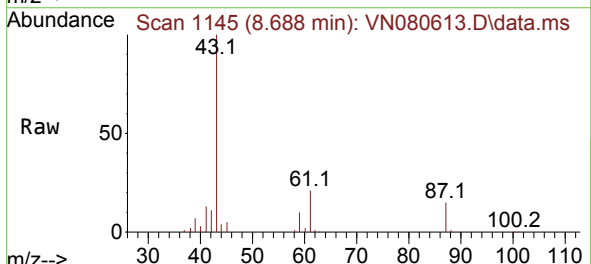


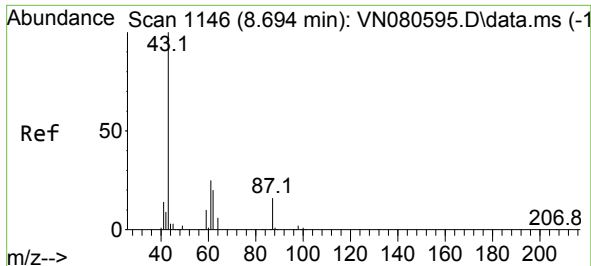
Tgt Ion: 41 Resp: 4626
Ion Ratio Lower Upper
41 100
39 47.3 42.6 64.0
67 0.0 77.5 116.3#
52 0.0 28.9 43.3#



#42
1,2-Dichloroethane
Concen: 0.285 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.018 min
Lab File: VN080613.D
Acq: 29 Dec 2023 14:24

Tgt Ion: 62 Resp: 1434
Ion Ratio Lower Upper
62 100
98 0.0 0.0 19.8

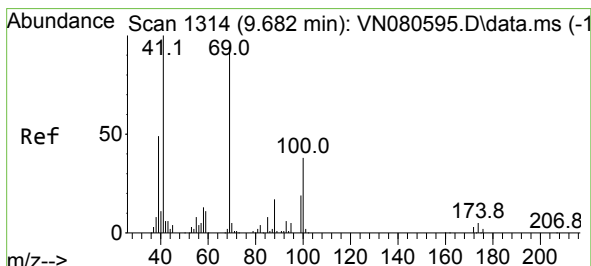
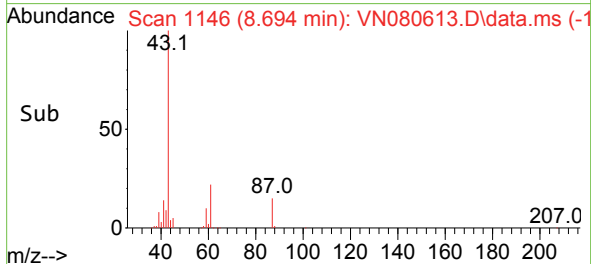
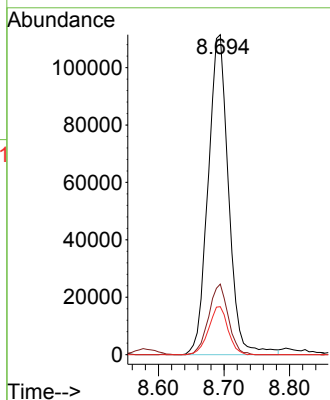
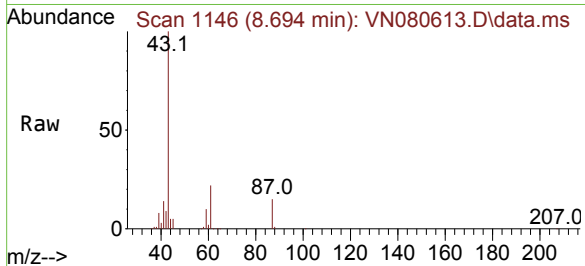




#43
Isopropyl Acetate
Concen: 36.352 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN080613.D
Acq: 29 Dec 2023 14:24

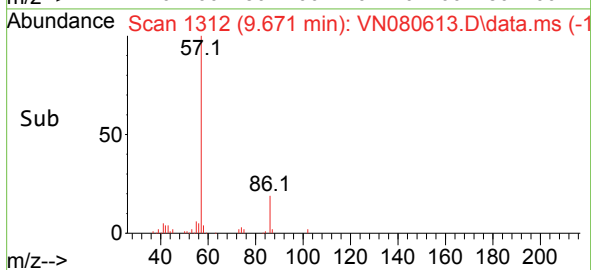
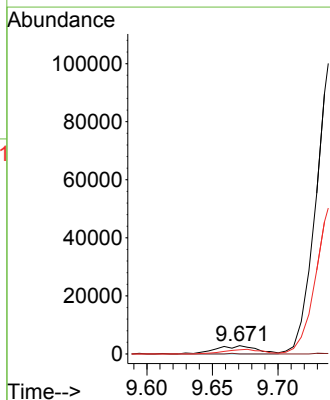
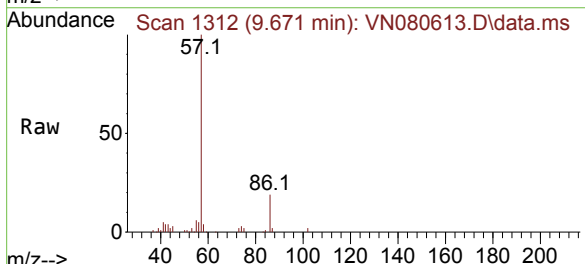
Instrument :
MSVOA_N
ClientSampleId :
PB158132ZHE#05

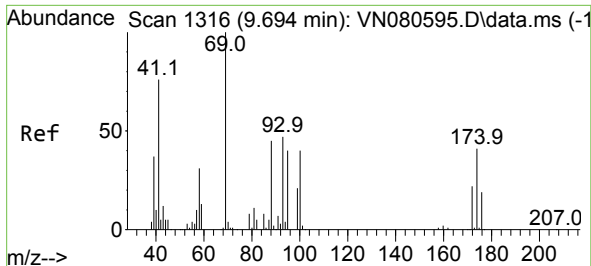
Tgt Ion: 43 Resp: 241064
Ion Ratio Lower Upper
43 100
61 21.1 24.7 37.1#
87 14.3 14.6 21.8#



#48
Methyl methacrylate
Concen: 1.697 ug/l
RT: 9.671 min Scan# 1312
Delta R.T. -0.012 min
Lab File: VN080613.D
Acq: 29 Dec 2023 14:24

Tgt Ion: 41 Resp: 6248
Ion Ratio Lower Upper
41 100
69 1.2 90.4 135.6#
39 50.6 54.6 81.8#





#49

1,4-Dioxane

Concen: 7.748 ug/l

RT: 9.700 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN080613.D

Acq: 29 Dec 2023 14:24

Instrument :

MSVOA_N

ClientSampleId :

PB158132ZHE#05

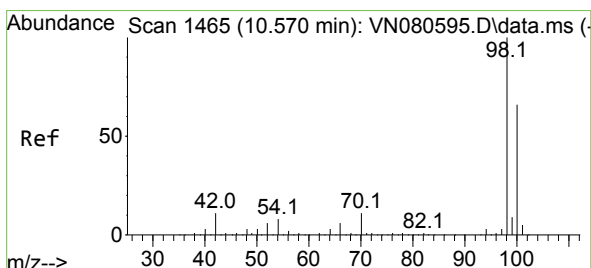
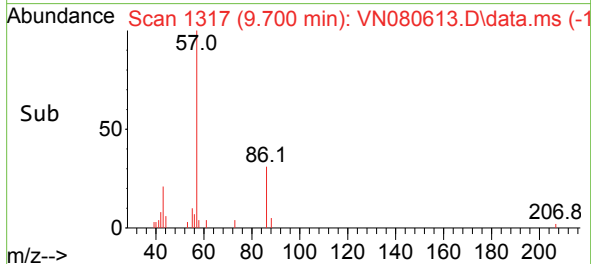
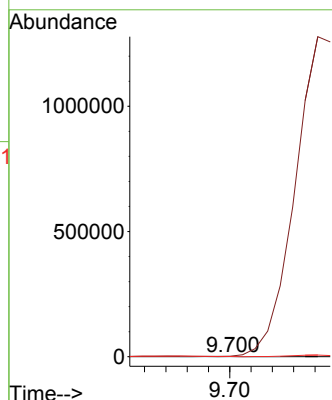
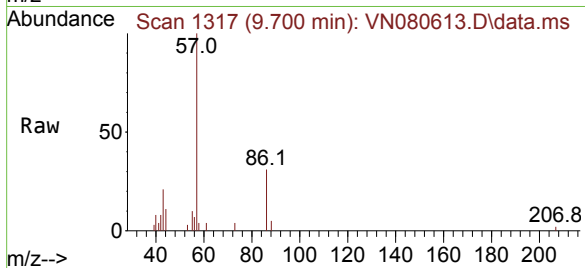
Tgt Ion: 88 Resp: 456

Ion Ratio Lower Upper

88 100

43 0.0 17.0 25.6#

58 0.0 47.0 70.4#



#50

Toluene-d8

Concen: 58.957 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VN080613.D

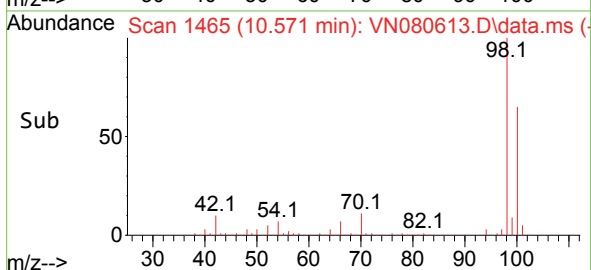
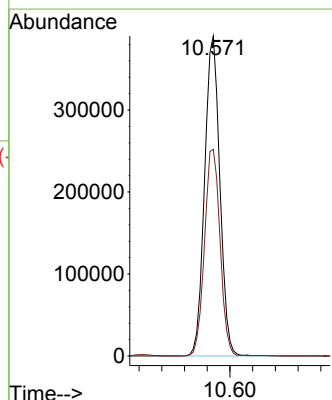
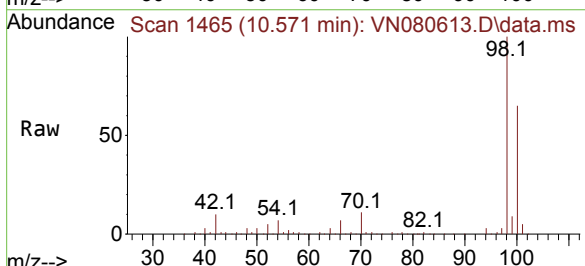
Acq: 29 Dec 2023 14:24

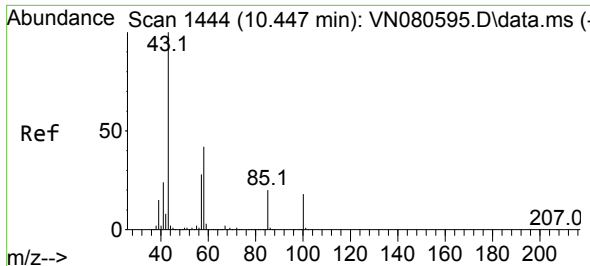
Tgt Ion: 98 Resp: 725218

Ion Ratio Lower Upper

98 100

100 65.8 52.0 78.0

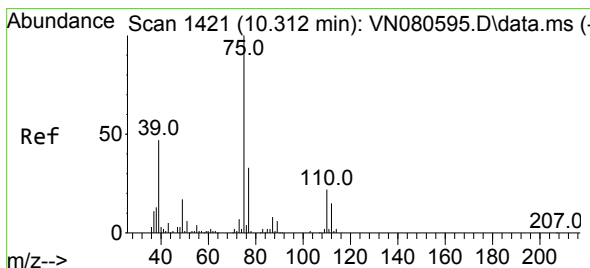
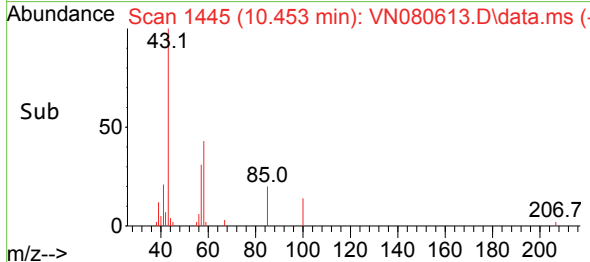
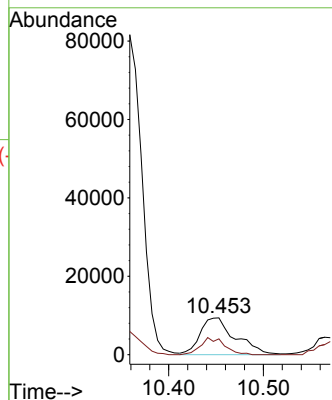
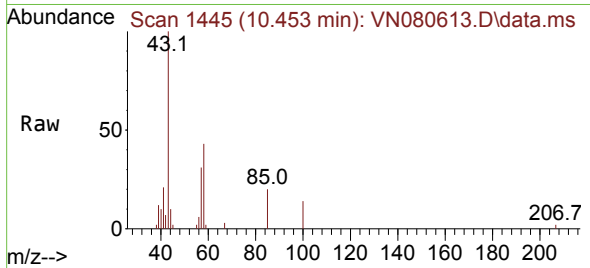




#51
4-Methyl-2-Pentanone
Concen: 6.456 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.006 min
Lab File: VN080613.D
Acq: 29 Dec 2023 14:24

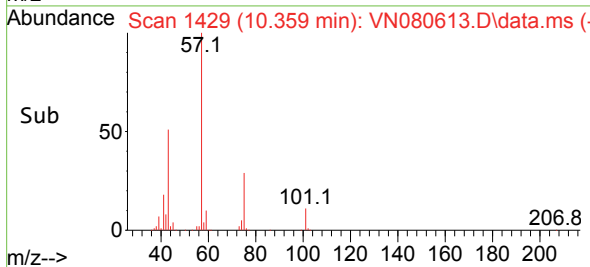
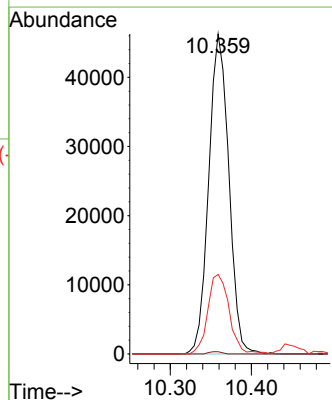
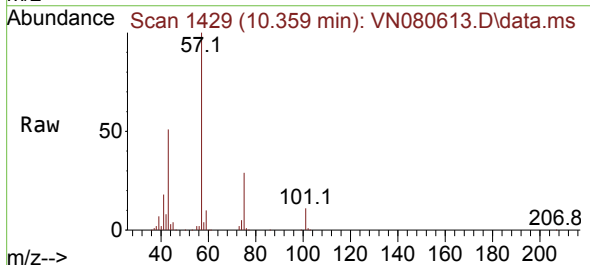
Instrument :
MSVOA_N
ClientSampleId :
PB158132ZHE#05

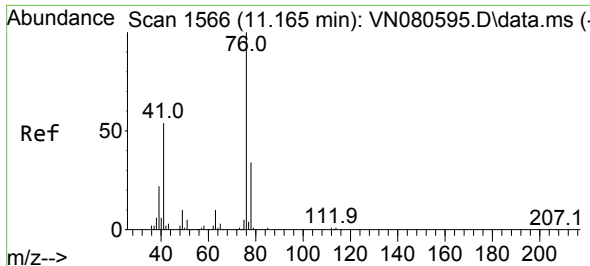
Tgt Ion: 43 Resp: 24351
Ion Ratio Lower Upper
43 100
58 31.4 36.6 54.8#



#54
cis-1,3-Dichloropropene
Concen: 13.551 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.047 min
Lab File: VN080613.D
Acq: 29 Dec 2023 14:24

Tgt Ion: 75 Resp: 79461
Ion Ratio Lower Upper
75 100
77 0.7 26.1 39.1#
39 24.8 31.6 47.4#





#57

1,3-Dichloropropane

Concen: 1.883 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.041 min

Lab File: VN080613.D

Acq: 29 Dec 2023 14:24

Instrument :

MSVOA_N

ClientSampleId :

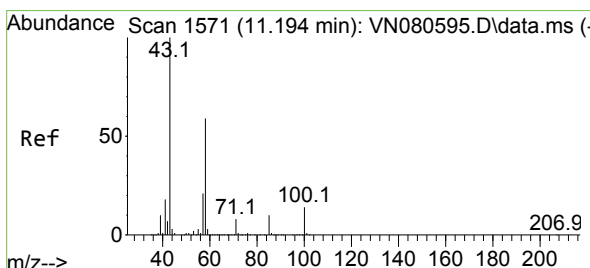
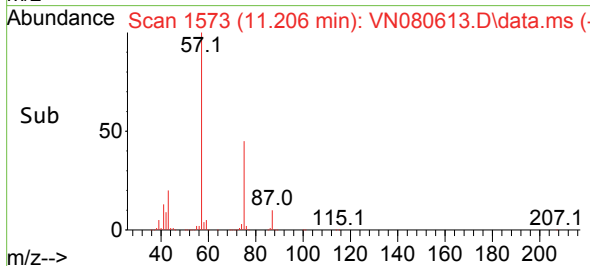
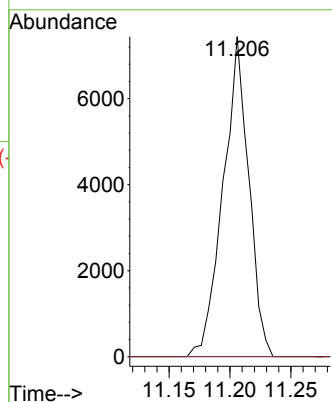
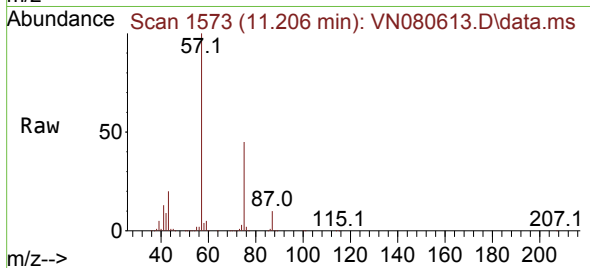
PB158132ZHE#05

Tgt Ion: 76 Resp: 10908

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 68.436 ug/l

RT: 11.171 min Scan# 1567

Delta R.T. -0.023 min

Lab File: VN080613.D

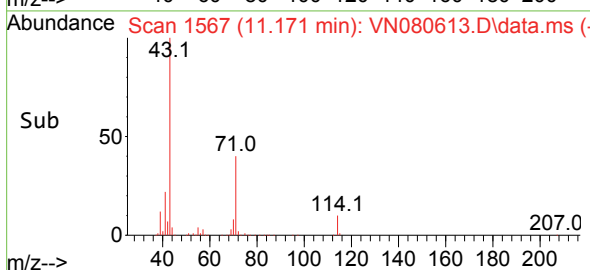
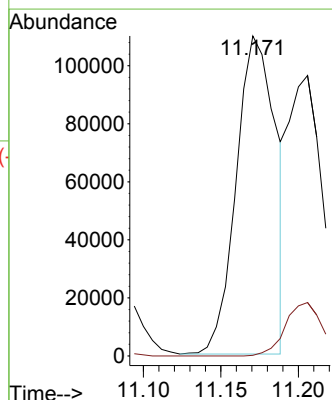
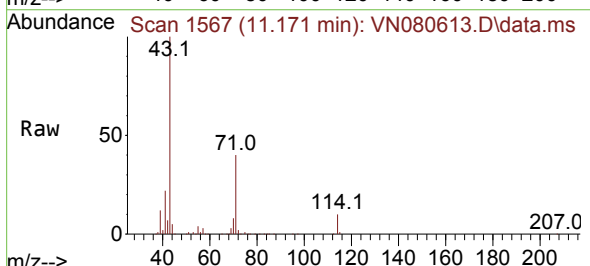
Acq: 29 Dec 2023 14:24

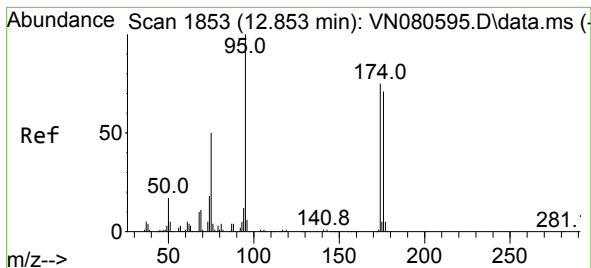
Tgt Ion: 43 Resp: 194544

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#





#62

4-Bromofluorobenzene

Concen: 70.243 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.000 min

Lab File: VN080613.D

Acq: 29 Dec 2023 14:24

Instrument :

MSVOA_N

ClientSampleId :

PB158132ZHE#05

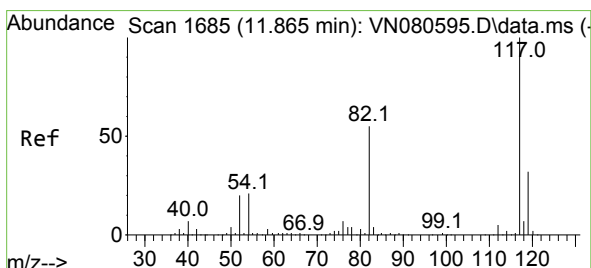
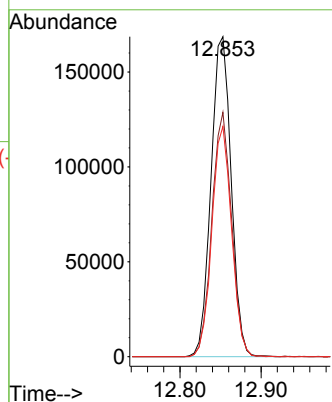
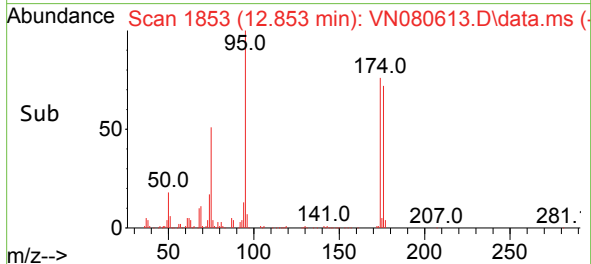
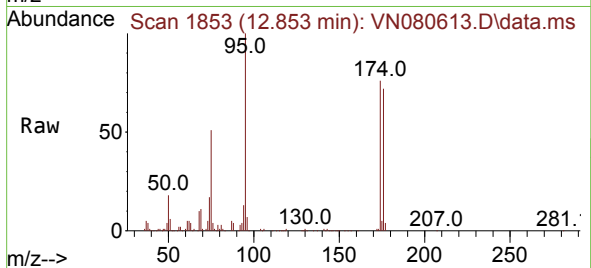
Tgt Ion: 95 Resp: 290788

Ion Ratio Lower Upper

95 100

174 74.8 0.0 143.8

176 70.4 0.0 135.8



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.871 min Scan# 1686

Delta R.T. 0.006 min

Lab File: VN080613.D

Acq: 29 Dec 2023 14:24

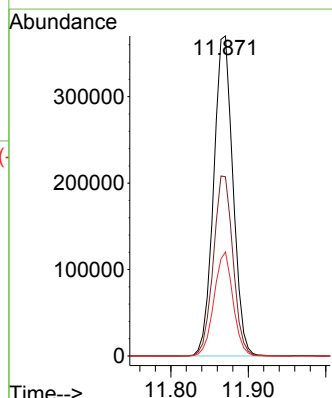
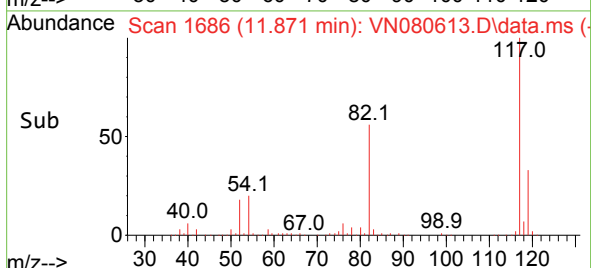
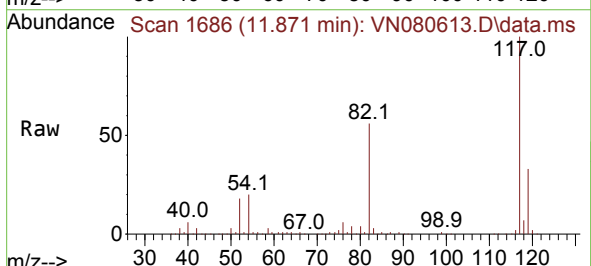
Tgt Ion: 117 Resp: 641941

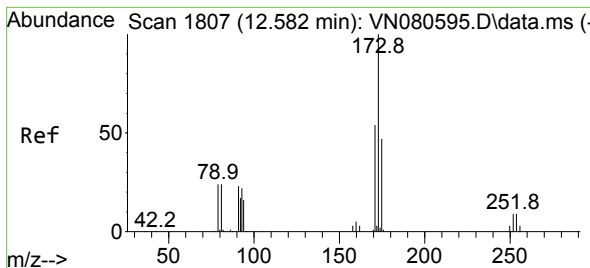
Ion Ratio Lower Upper

117 100

82 56.0 44.0 66.0

119 32.5 25.6 38.4





#71

Bromoform

Concen: 0.394 ug/l

RT: 12.853 min Scan# 1807

Delta R.T. 0.271 min

Lab File: VN080613.D

Acq: 29 Dec 2023 14:24

Instrument :

MSVOA_N

ClientSampleId :

PB158132ZHE#05

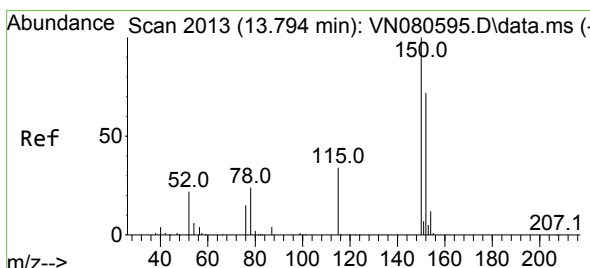
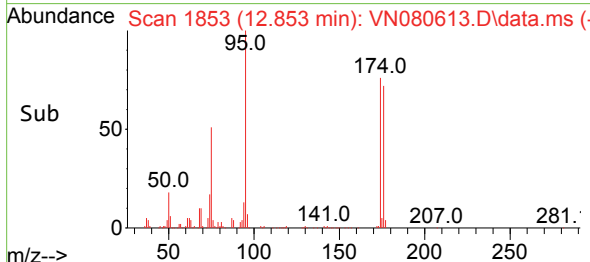
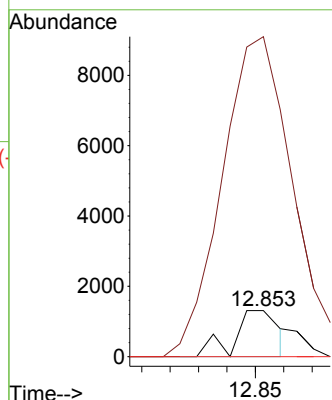
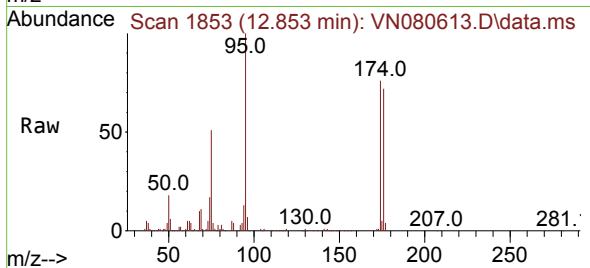
Tgt Ion:173 Resp: 1432

Ion Ratio Lower Upper

173 100

175 909.6 24.3 73.0#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. 0.000 min

Lab File: VN080613.D

Acq: 29 Dec 2023 14:24

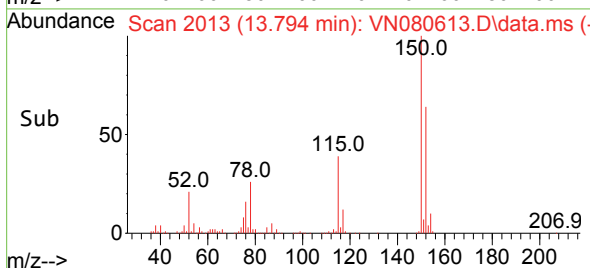
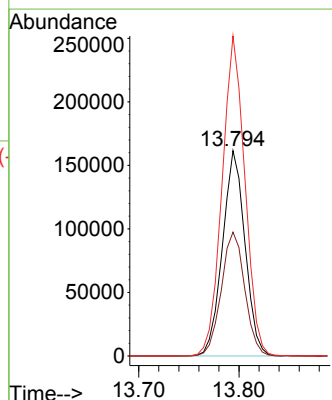
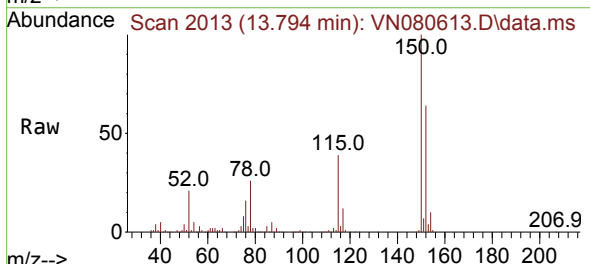
Tgt Ion:152 Resp: 251413

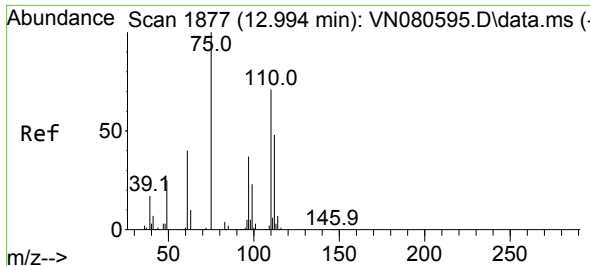
Ion Ratio Lower Upper

152 100

115 62.8 32.3 96.8

150 157.7 0.0 355.8

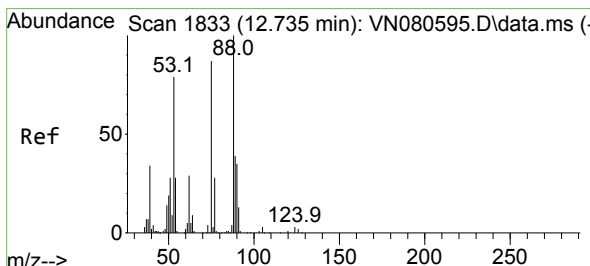
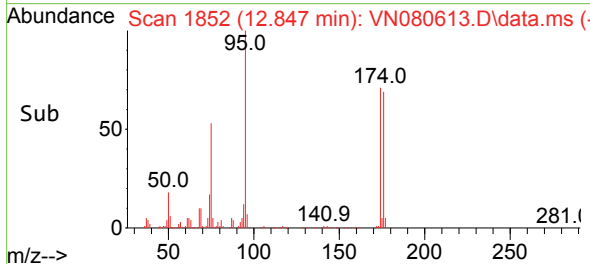
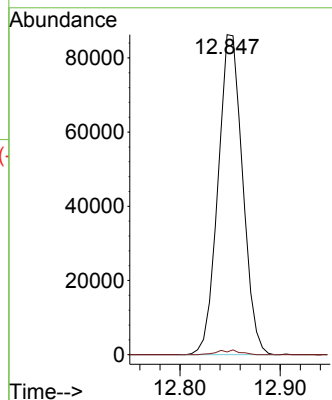
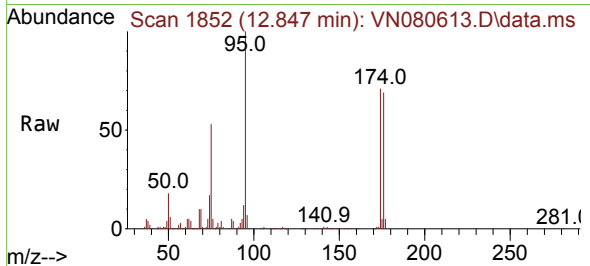




#76
1,2,3-Trichloropropane
Concen: 27.113 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN080613.D
Acq: 29 Dec 2023 14:24

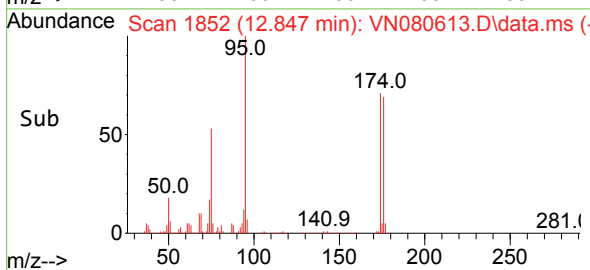
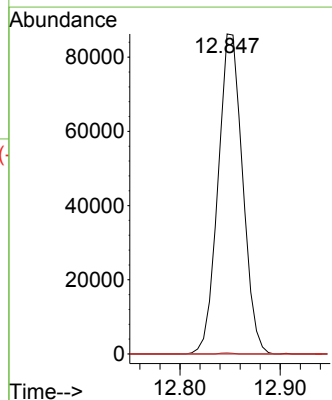
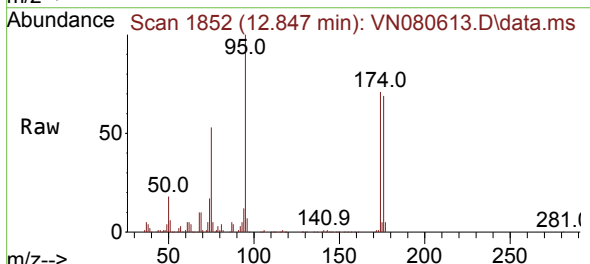
Instrument :
MSVOA_N
ClientSampleId :
PB158132ZHE#05

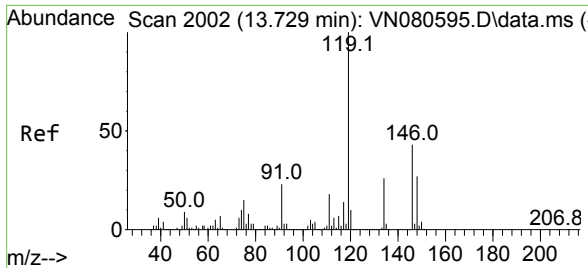
Tgt Ion: 75 Resp: 146611
Ion Ratio Lower Upper
75 100
77 1.3 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 73.441 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN080613.D
Acq: 29 Dec 2023 14:24

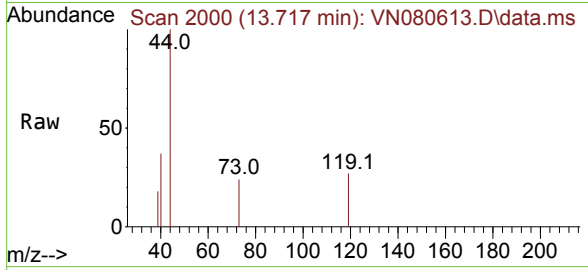
Tgt Ion: 75 Resp: 146611
Ion Ratio Lower Upper
75 100
53 0.1 67.4 101.2#
89 0.0 38.8 58.2#





#86
 p-Isopropyltoluene
 Concen: 0.460 ug/l
 RT: 13.717 min Scan# 20
 Delta R.T. -0.011 min
 Lab File: VN080613.D
 Acq: 29 Dec 2023 14:24

Instrument :
 MSVOA_N
 ClientSampleId :
 PB158132ZHE#05



Tgt Ion:	119	Resp:	82
Ion	Ratio	Lower	Upper
119	100		
134	0.0	12.6	37.8#
91	0.0	12.4	37.2#

