

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061223\
 Data File : VN078171.D
 Acq On : 12 Jun 2023 17:06
 Operator : JC\MD
 Sample : 03140-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-3-GA

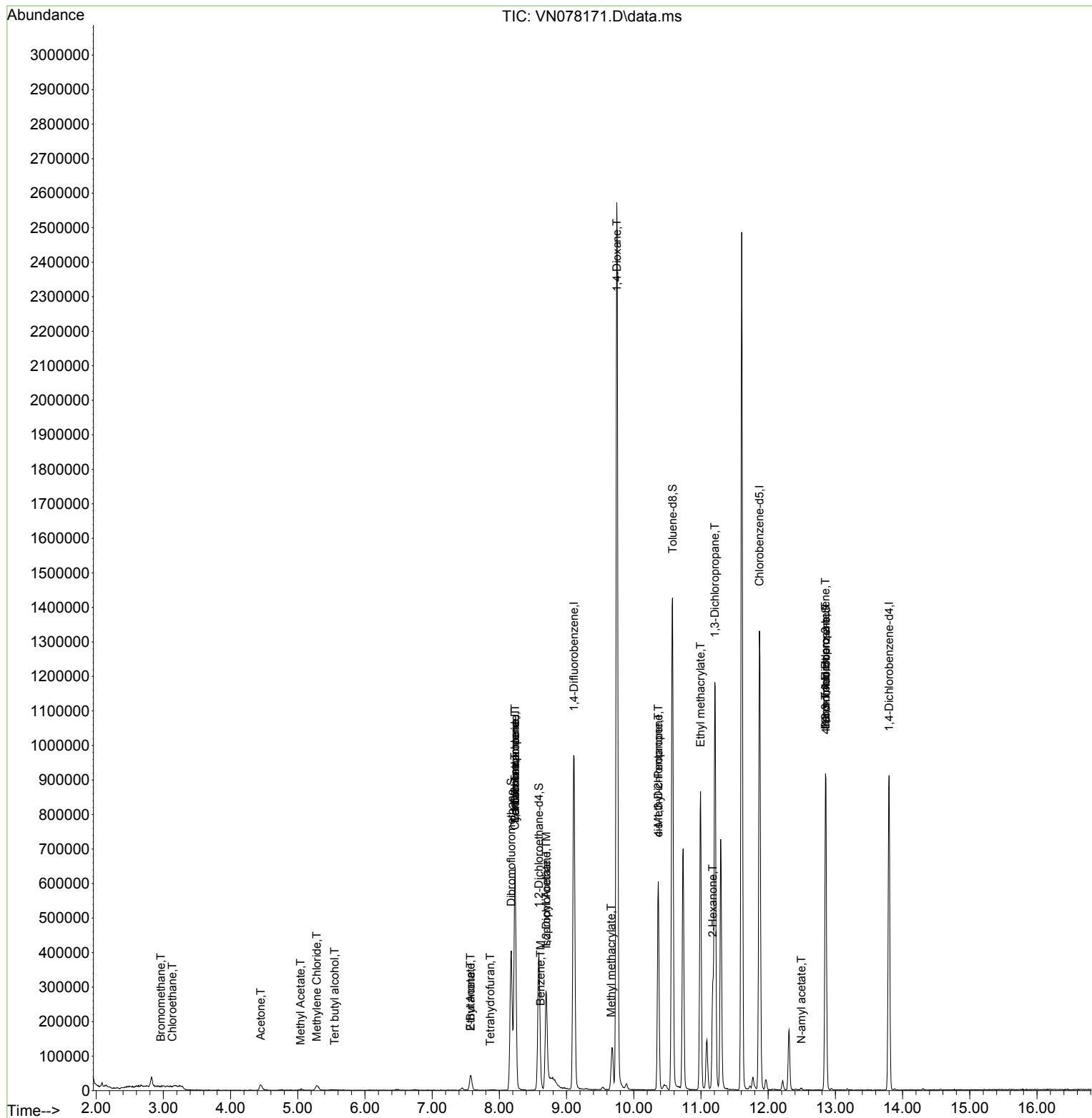
Quant Time: Jun 13 01:35:15 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060623W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 07 05:05:00 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.235	168	459523	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	862409	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	791372	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	246256	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	329262	53.741	ug/l	0.00
Spiked Amount 50.000	Range 74	- 125	Recovery	=	107.480%	
35) Dibromofluoromethane	8.177	113	289796	53.145	ug/l	0.00
Spiked Amount 50.000	Range 75	- 124	Recovery	=	106.300%	
50) Toluene-d8	10.576	98	1039087	49.430	ug/l	0.00
Spiked Amount 50.000	Range 86	- 113	Recovery	=	98.860%	
62) 4-Bromofluorobenzene	12.859	95	320959	49.113	ug/l	0.00
Spiked Amount 50.000	Range 83	- 123	Recovery	=	98.220%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.371	50	1112	Below Cal	#	76
5) Bromomethane	2.965	94	1282	0.249	ug/l	100
6) Chloroethane	3.136	64	1066	0.230	ug/l #	86
11) Tert butyl alcohol	5.547	59	261	0.309	ug/l #	72
16) Acetone	4.447	43	31242	17.716	ug/l	96
18) Methyl Acetate	5.041	43	6210	0.765	ug/l #	67
20) Methylene Chloride	5.283	84	11452	1.965	ug/l	91
25) 2-Butanone	7.571	43	64689	23.853	ug/l #	39
29) Tetrahydrofuran	7.865	42	707	0.390	ug/l #	44
31) Cyclohexane	8.229	56	11790	1.500	ug/l #	45
36) 1,1-Dichloropropene	8.235	75	39426	5.041	ug/l #	49
37) Ethyl Acetate	7.571	43	64689	10.587	ug/l	97
38) Carbon Tetrachloride	8.235	117	51132	6.191	ug/l #	16
40) Benzene	8.612	78	10703	0.458	ug/l	91
42) 1,2-Dichloroethane	8.700	62	2284	0.285	ug/l #	73
43) Isopropyl Acetate	8.700	43	339487	29.052	ug/l #	80
48) Methyl methacrylate	9.665	41	7871	1.605	ug/l #	33
49) 1,4-Dioxane	9.747	88	232	2.251	ug/l #	1
51) 4-Methyl-2-Pentanone	10.365	43	216465	35.178	ug/l #	41
54) cis-1,3-Dichloropropene	10.365	75	106905	11.683	ug/l #	70
56) Ethyl methacrylate	10.994	69	3919	0.483	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	12841	1.364	ug/l #	42
59) 2-Hexanone	11.176	43	239579	55.917	ug/l #	19
71) Bromoform	12.853	173	2881	0.716	ug/l #	1
74) N-amyl acetate	12.494	43	2437	0.318	ug/l #	38
75) 1,1,2,2-Tetrachloroethane	12.853	83	406	Below Cal	#	17
76) 1,2,3-Trichloropropane	12.853	75	172359	29.607	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	172359	90.962	ug/l #	15
94) Hexachlorobutadiene	15.511	225	54	Below Cal	#	19

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

Quant Time: Jun 13 01:35:15 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060623W.M
Quant Title : SW846 8260
QLast Update : Wed Jun 07 05:05:00 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.235 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN078171.D

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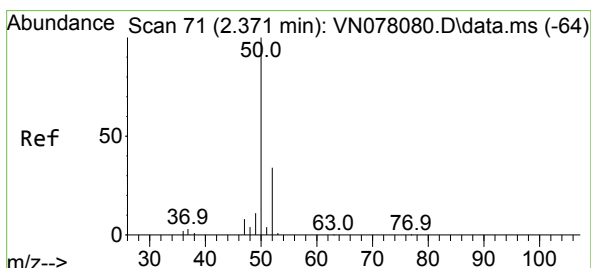
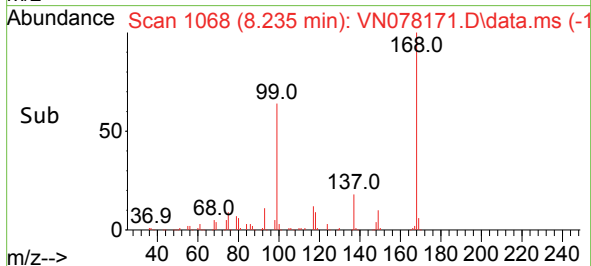
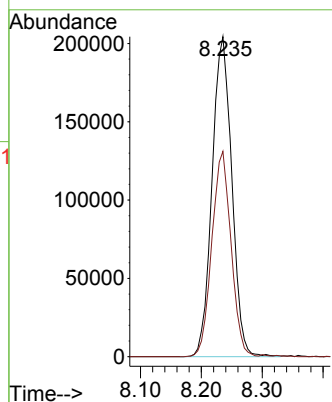
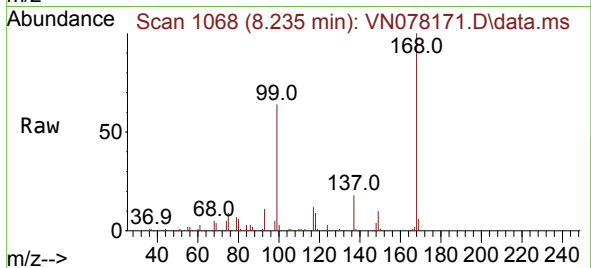
TP-3-GA

Tgt Ion:168 Resp: 459523

Ion Ratio Lower Upper

168 100

99 64.1 53.0 79.6



#3

Chloromethane

Concen: Below Cal

RT: 2.371 min Scan# 71

Delta R.T. 0.000 min

Lab File: VN078171.D

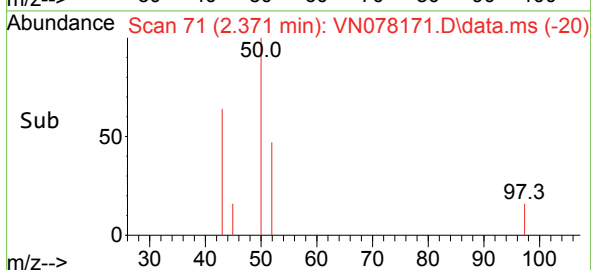
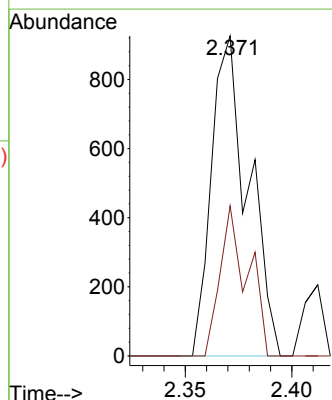
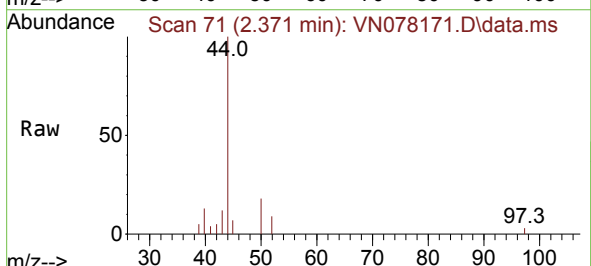
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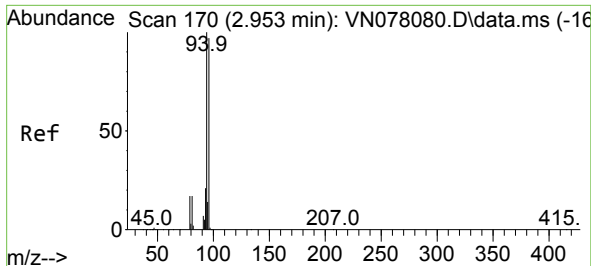
Tgt Ion: 50 Resp: 1112

Ion Ratio Lower Upper

50 100

52 46.9 26.5 39.7#

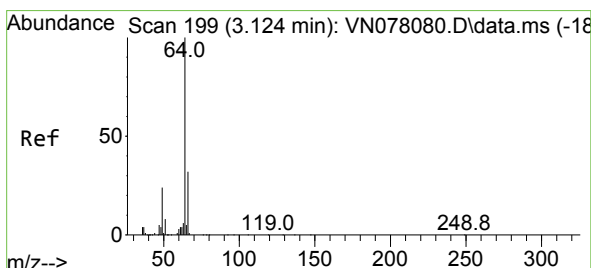
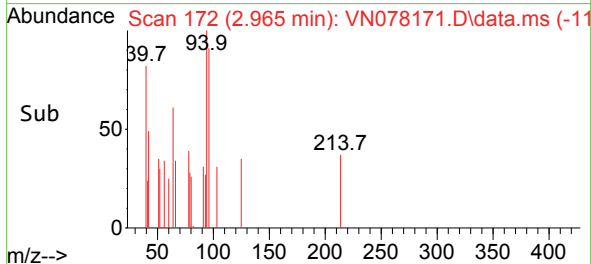
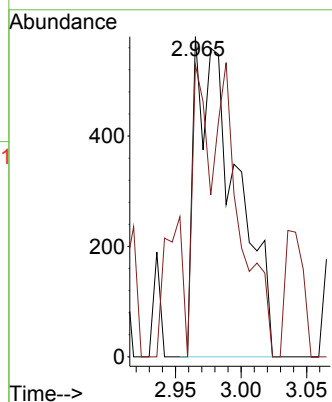
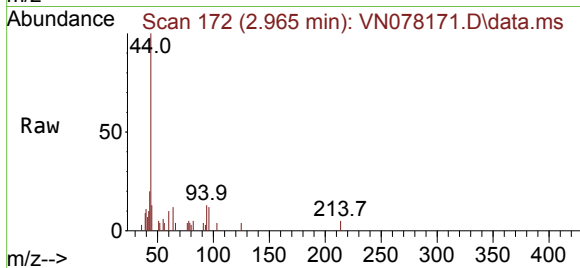




#5
Bromomethane
Concen: 0.249 ug/l
RT: 2.965 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN078171.D
Acq: 12 Jun 2023 17:06

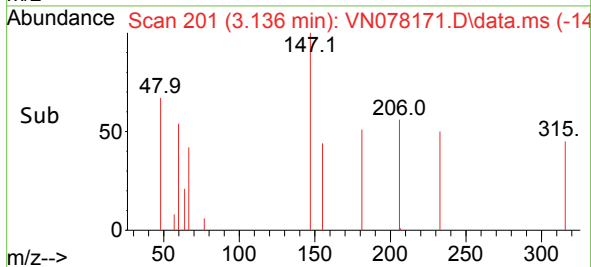
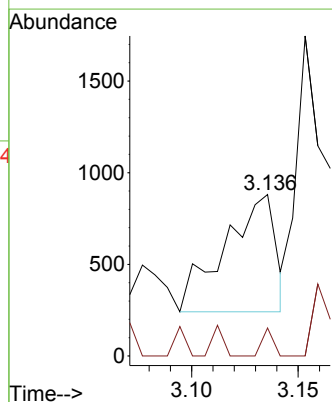
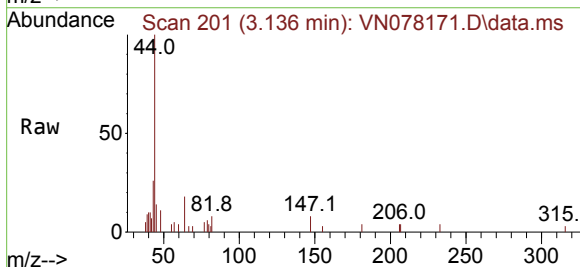
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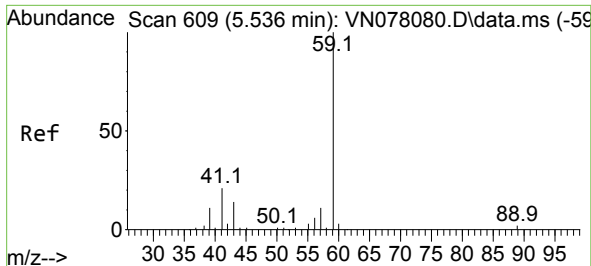
Tgt Ion: 94 Resp: 1282
Ion Ratio Lower Upper
94 100
96 91.2 73.1 109.7



#6
Chloroethane
Concen: 0.230 ug/l
RT: 3.136 min Scan# 201
Delta R.T. 0.012 min
Lab File: VN078171.D
Acq: 12 Jun 2023 17:06

Tgt Ion: 64 Resp: 1066
Ion Ratio Lower Upper
64 100
66 23.9 25.4 38.2#





#11

Tert butyl alcohol

Concen: 0.309 ug/l

RT: 5.547 min Scan# 611

Delta R.T. 0.012 min

Lab File: VN078171.D

Acq: 12 Jun 2023 17:06

Instrument :

MSVOA_N

ClientSampleId :

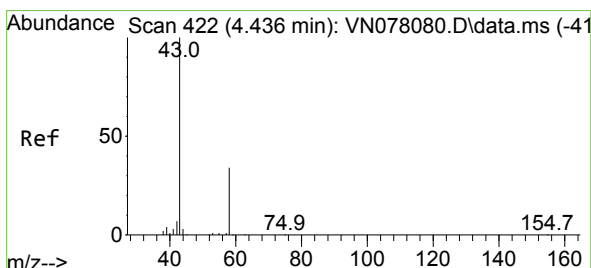
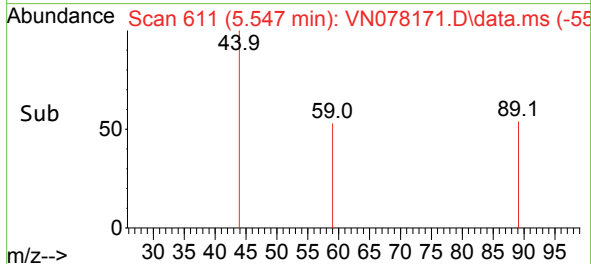
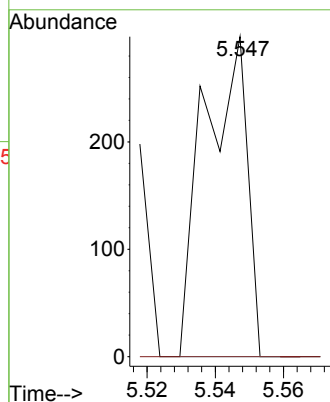
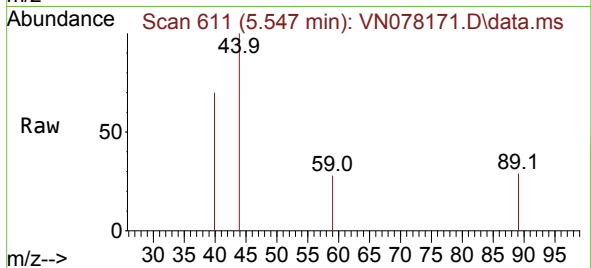
TP-3-GA

Tgt Ion: 59 Resp: 261

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



#16

Acetone

Concen: 17.716 ug/l

RT: 4.447 min Scan# 424

Delta R.T. 0.012 min

Lab File: VN078171.D

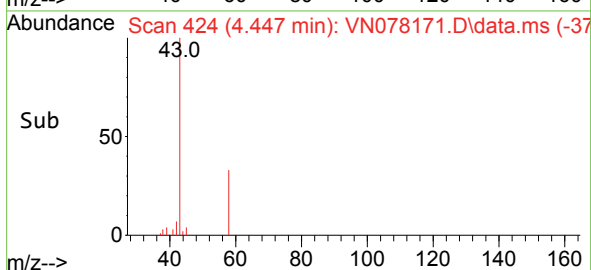
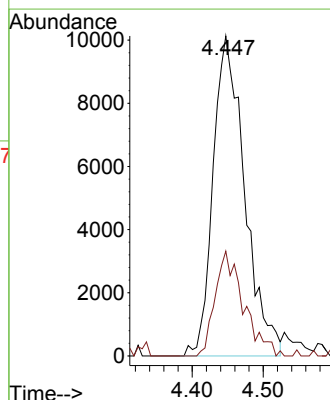
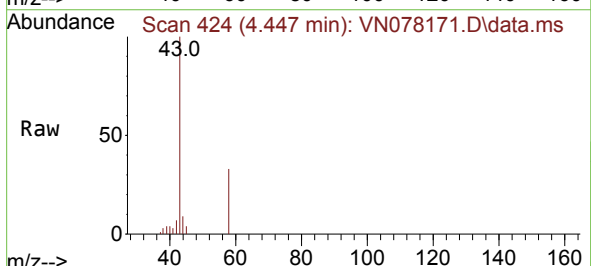
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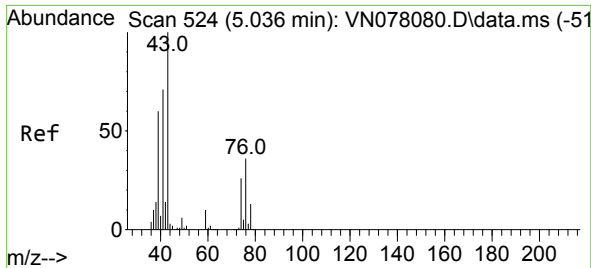
Tgt Ion: 43 Resp: 31242

Ion Ratio Lower Upper

43 100

58 32.7 28.0 42.0

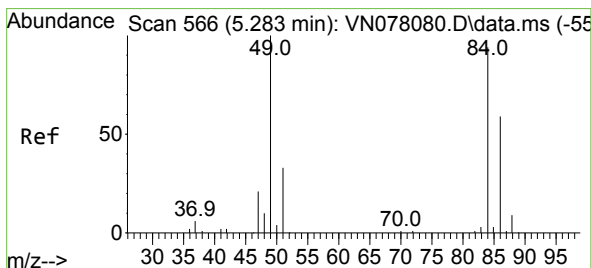
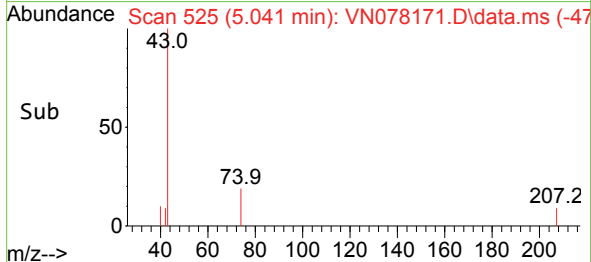
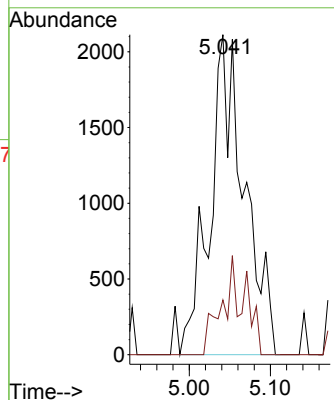
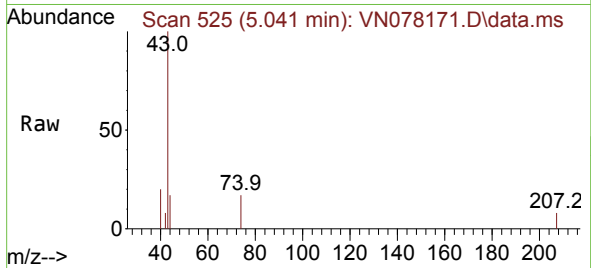




#18
Methyl Acetate
Concen: 0.765 ug/l
RT: 5.041 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN078171.D
Acq: 12 Jun 2023 17:06

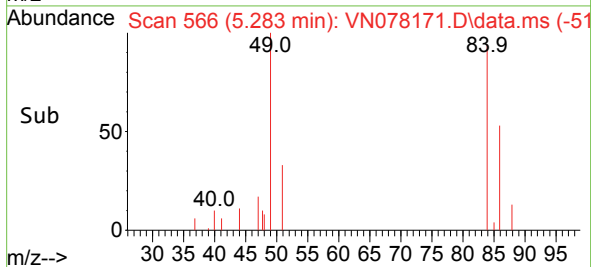
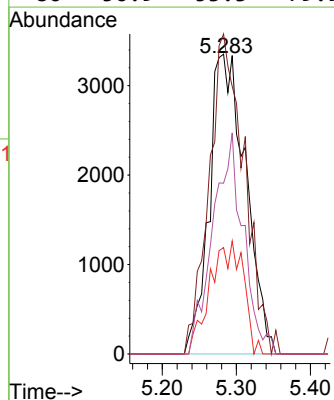
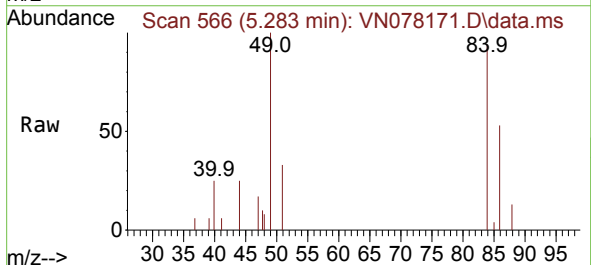
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MSVOA_N
ClientSampleId :
TP-3-GA

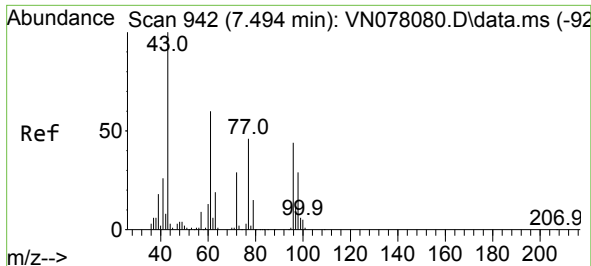
Tgt Ion: 43 Resp: 6210
Ion Ratio Lower Upper
43 100
74 14.4 26.2 39.4#



#20
Methylene Chloride
Concen: 1.965 ug/l
RT: 5.283 min Scan# 566
Delta R.T. -0.000 min
Lab File: VN078171.D
Acq: 12 Jun 2023 17:06

Tgt Ion: 84 Resp: 11452
Ion Ratio Lower Upper
84 100
49 106.7 79.7 119.5
51 35.5 25.2 37.8
86 56.9 53.3 79.9

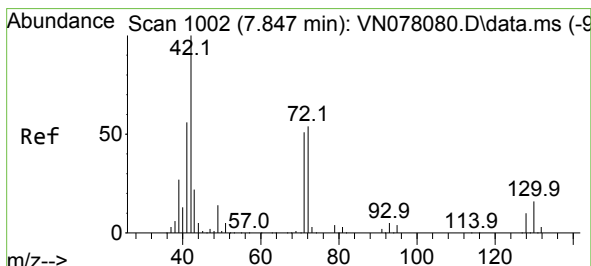
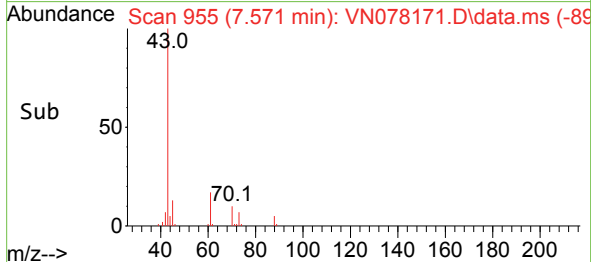
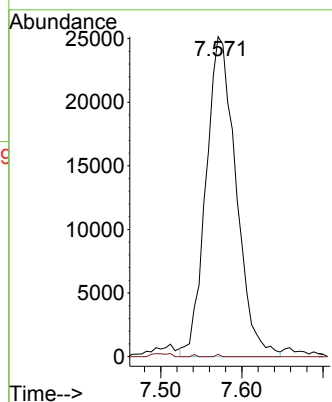
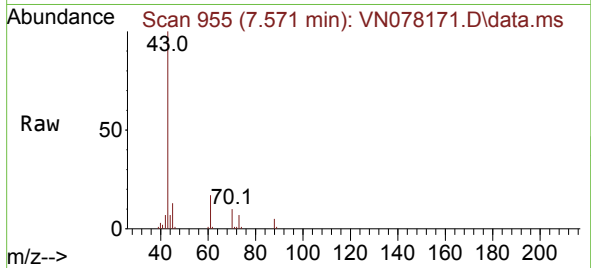




#25
2-Butanone
Concen: 23.853 ug/l
RT: 7.571 min Scan# 91
Delta R.T. 0.076 min
Lab File: VN078171.D
Acq: 12 Jun 2023 17:06

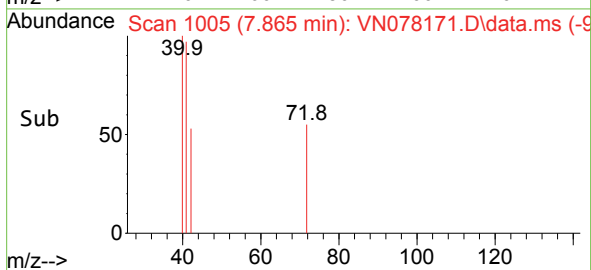
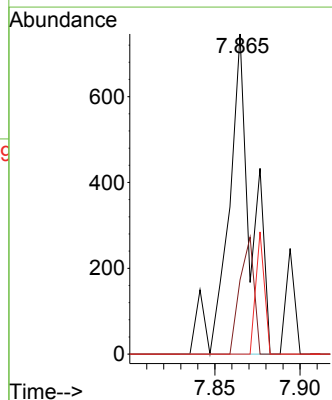
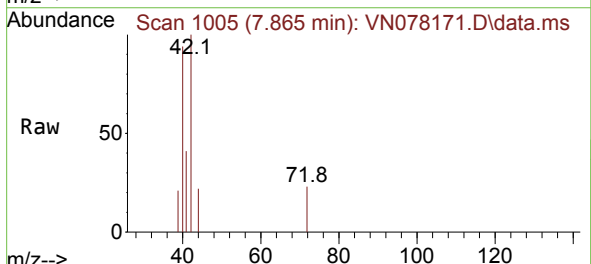
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ClientSampleId :
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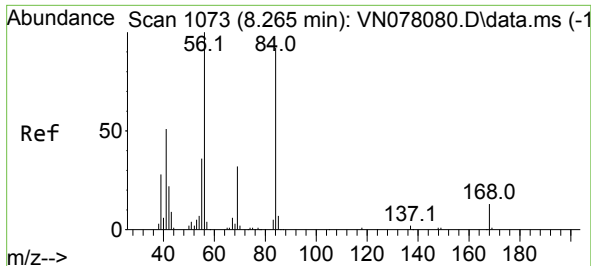
Tgt Ion: 43 Resp: 64689
Ion Ratio Lower Upper
43 100
72 0.8 30.2 45.2#



#29
Tetrahydrofuran
Concen: 0.390 ug/l
RT: 7.865 min Scan# 1005
Delta R.T. 0.018 min
Lab File: VN078171.D
Acq: 12 Jun 2023 17:06

Tgt Ion: 42 Resp: 707
Ion Ratio Lower Upper
42 100
72 22.2 49.8 74.6#
71 14.3 47.4 71.2#

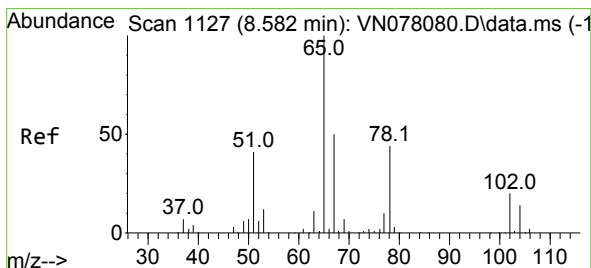
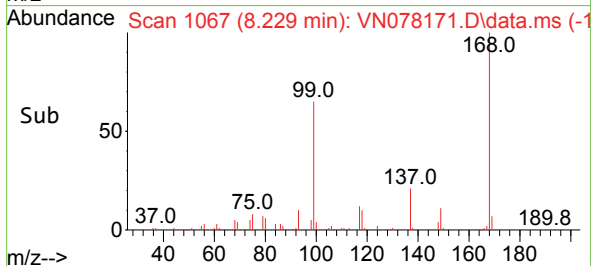
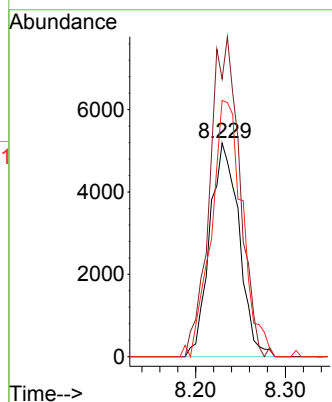
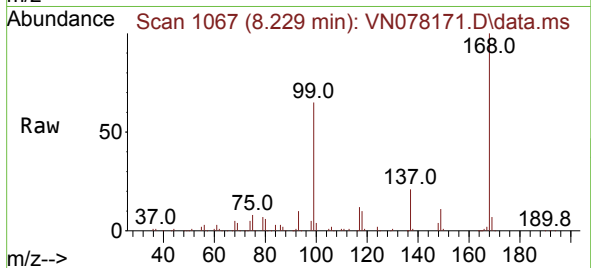




#31
Cyclohexane
Concen: 1.500 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.035 min
Lab File: VN078171.D
Acq: 12 Jun 2023 17:06

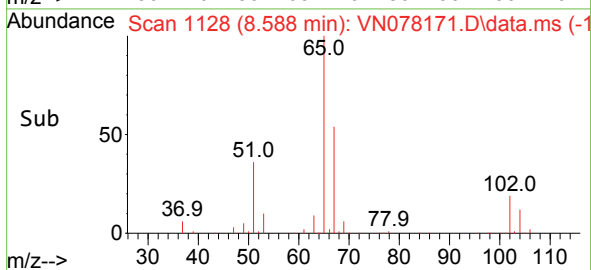
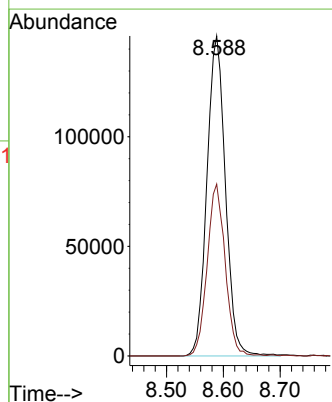
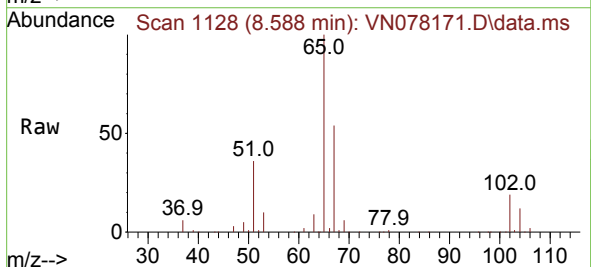
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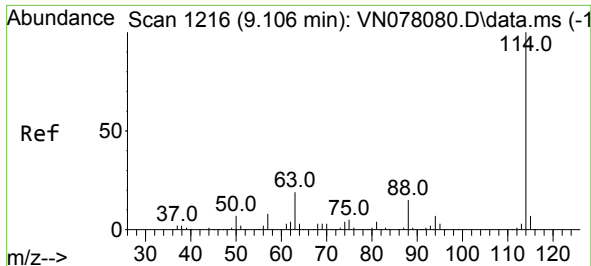
Tgt Ion: 56 Resp: 11790
Ion Ratio Lower Upper
56 100
69 130.0 26.8 40.2#
84 119.9 81.8 122.6



#33
1,2-Dichloroethane-d4
Concen: 53.741 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.006 min
Lab File: VN078171.D
Acq: 12 Jun 2023 17:06

Tgt Ion: 65 Resp: 329262
Ion Ratio Lower Upper
65 100
67 52.3 0.0 106.6

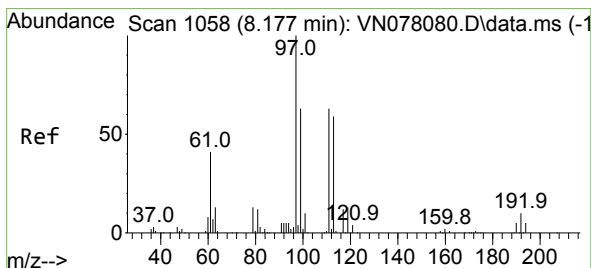
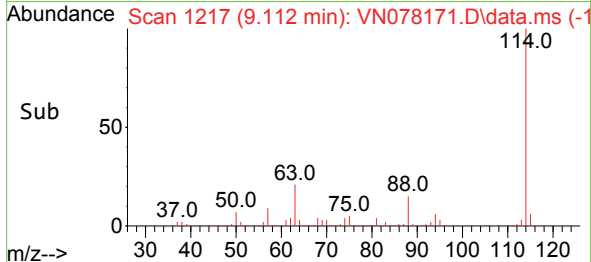
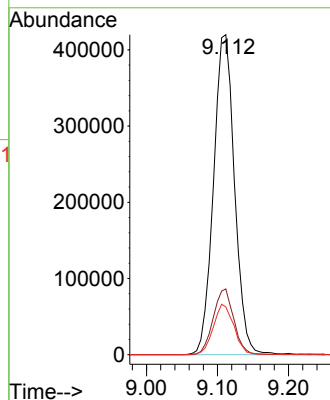
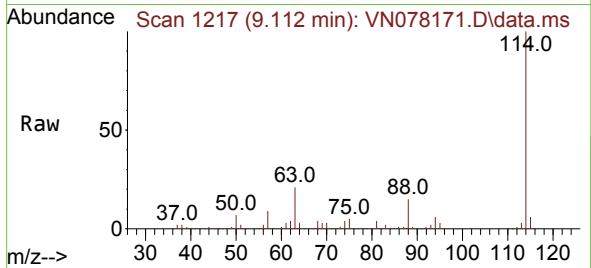




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.112 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN078171.D
Acq: 12 Jun 2023 17:06

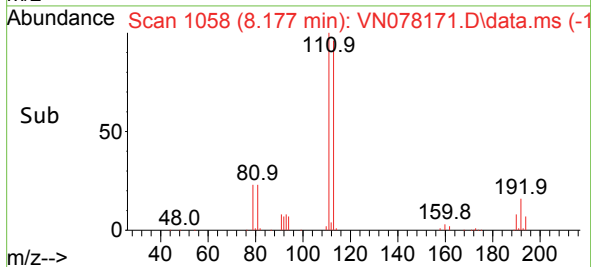
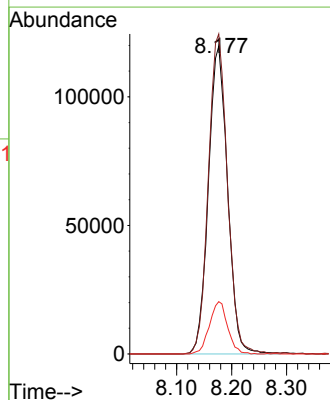
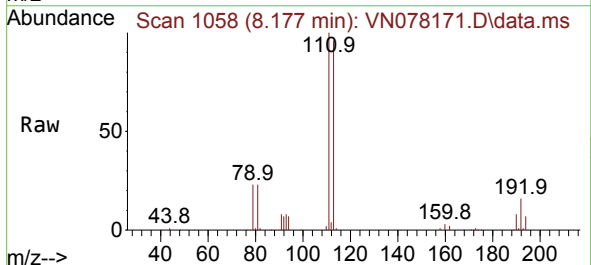
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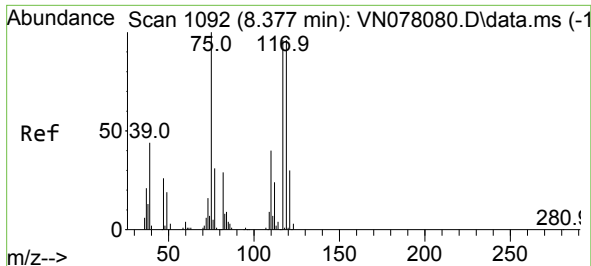
Tgt Ion:114 Resp: 862409
Ion Ratio Lower Upper
114 100
63 20.5 0.0 36.4
88 15.0 0.0 30.6



#35
Dibromofluoromethane
Concen: 53.145 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN078171.D
Acq: 12 Jun 2023 17:06

Tgt Ion:113 Resp: 289796
Ion Ratio Lower Upper
113 100
111 103.4 82.6 123.8
192 16.2 12.7 19.1

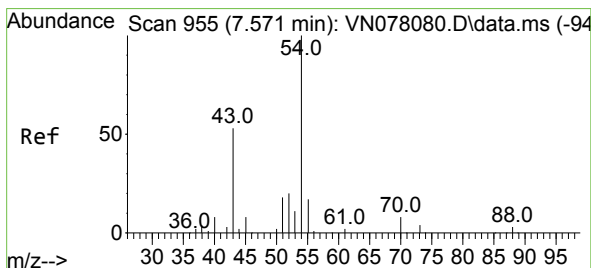
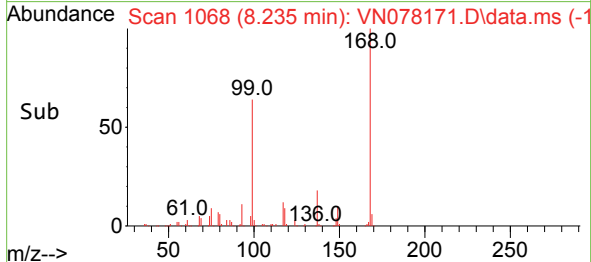
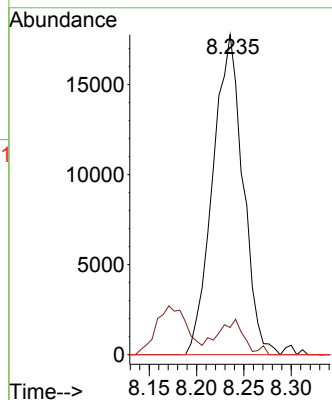
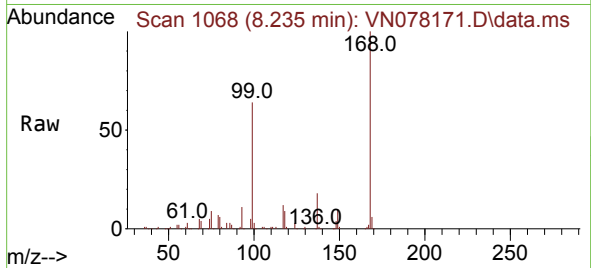




#36
1,1-Dichloropropene
Concen: 5.041 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.141 min
Lab File: VN078171.D
Acq: 12 Jun 2023 17:06

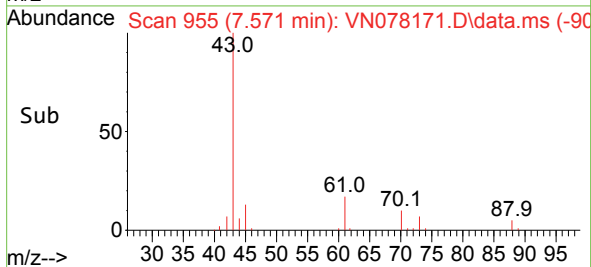
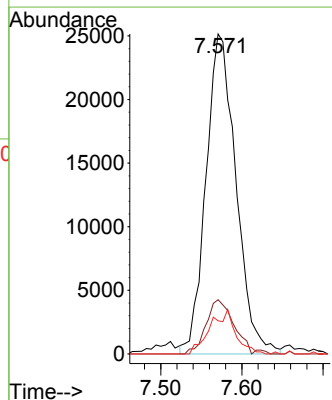
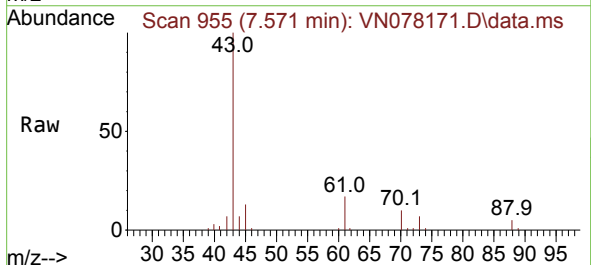
Instrument :
MSVOA_N
ClientSampleId :
TP-3-GA

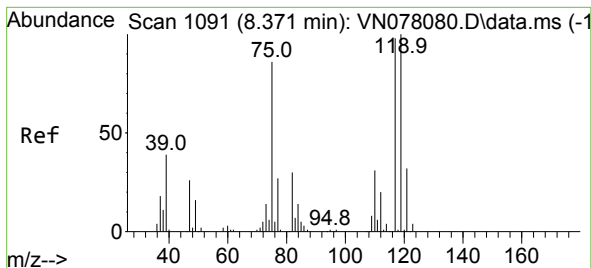
Tgt Ion: 75 Resp: 39426
Ion Ratio Lower Upper
75 100
110 9.9 19.1 57.3#
77 0.0 25.0 37.4#



#37
Ethyl Acetate
Concen: 10.587 ug/l
RT: 7.571 min Scan# 955
Delta R.T. -0.000 min
Lab File: VN078171.D
Acq: 12 Jun 2023 17:06

Tgt Ion: 43 Resp: 64689
Ion Ratio Lower Upper
43 100
61 15.8 13.2 19.8
70 11.8 11.3 16.9





#38

Carbon Tetrachloride

Concen: 6.191 ug/l

RT: 8.235 min Scan# 1068

Delta R.T. -0.135 min

Lab File: VN078171.D

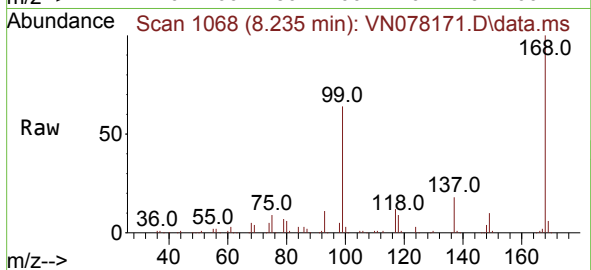
Acq: 12 Jun 2023 17:06

Instrument :

MSVOA_N

ClientSampleId :

TP-3-GA



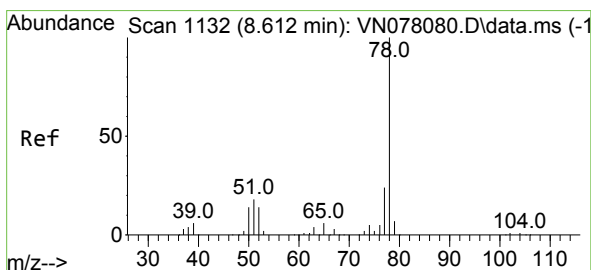
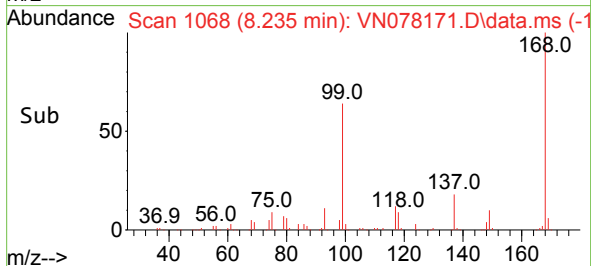
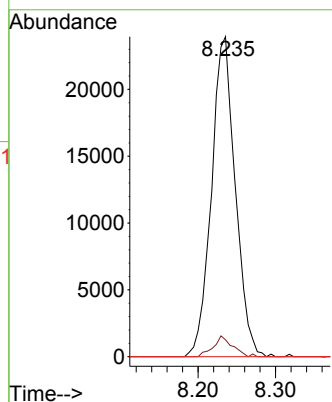
Tgt Ion:117 Resp: 51132

Ion Ratio Lower Upper

117 100

119 5.3 77.3 115.9#

121 0.0 23.3 34.9#



#40

Benzene

Concen: 0.458 ug/l

RT: 8.612 min Scan# 1132

Delta R.T. -0.000 min

Lab File: VN078171.D

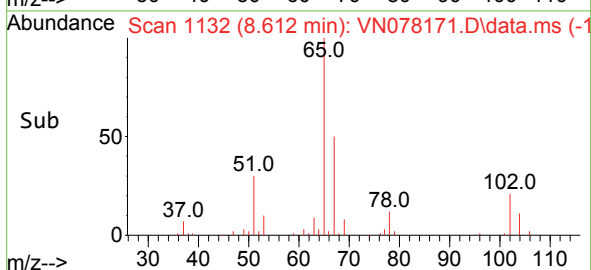
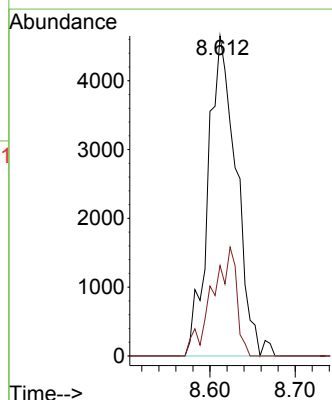
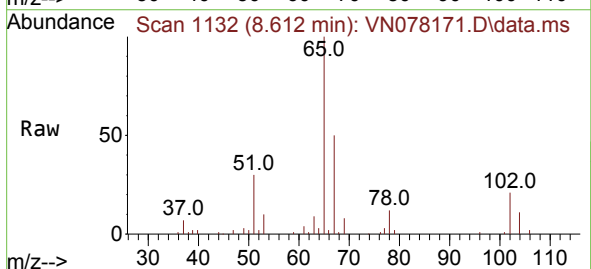
Acq: 12 Jun 2023 17:06

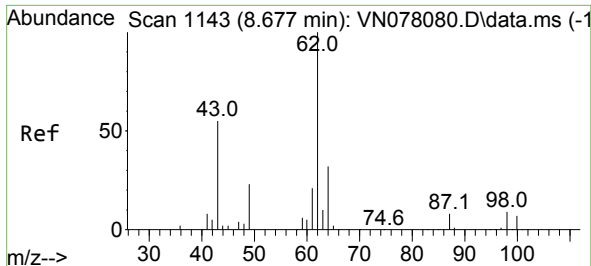
Tgt Ion: 78 Resp: 10703

Ion Ratio Lower Upper

78 100

77 28.3 19.0 28.6





#42

1,2-Dichloroethane

Concen: 0.285 ug/l

RT: 8.700 min Scan# 1147

Delta R.T. 0.023 min

Lab File: VN078171.D

Acq: 12 Jun 2023 17:06

Instrument :

MSVOA_N

ClientSampleId :

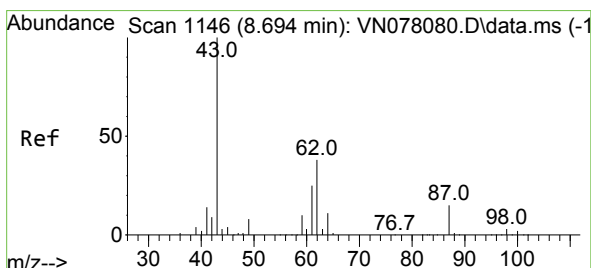
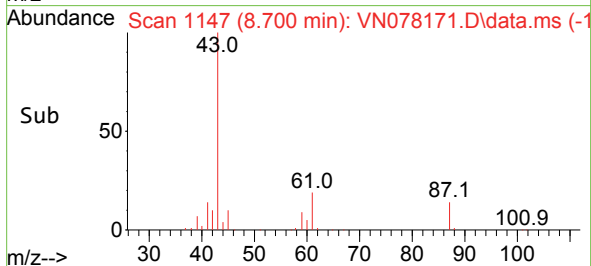
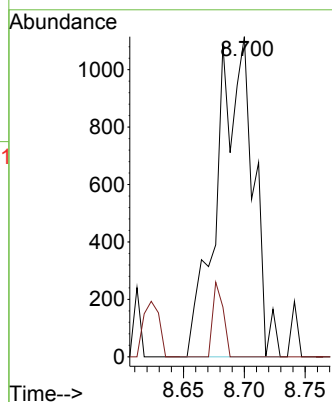
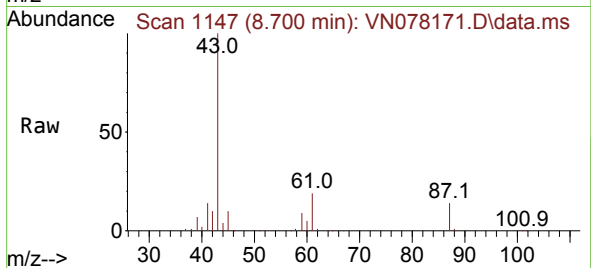
TP-3-GA

Tgt Ion: 62 Resp: 2284

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8



#43

Isopropyl Acetate

Concen: 29.052 ug/l

RT: 8.700 min Scan# 1147

Delta R.T. 0.006 min

Lab File: VN078171.D

Acq: 12 Jun 2023 17:06

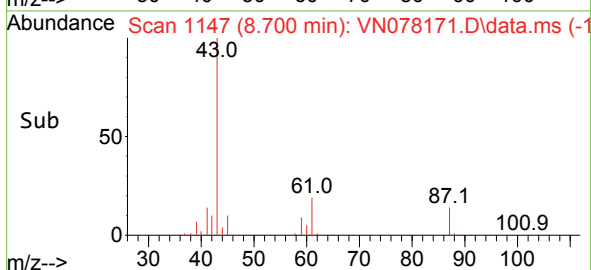
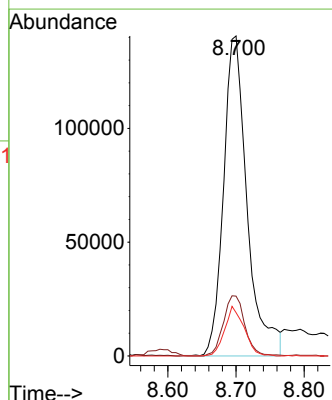
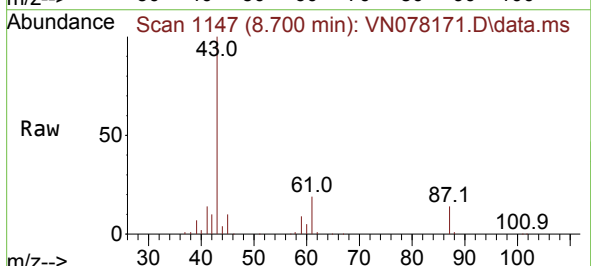
Tgt Ion: 43 Resp: 339487

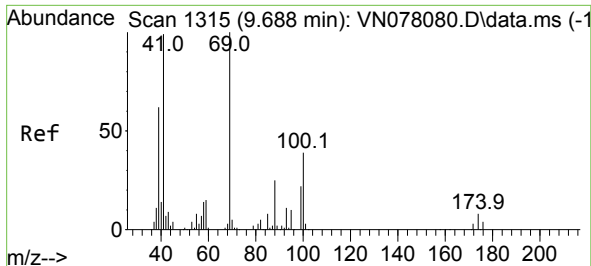
Ion Ratio Lower Upper

43 100

61 17.2 24.7 37.1#

87 12.8 14.6 21.8#

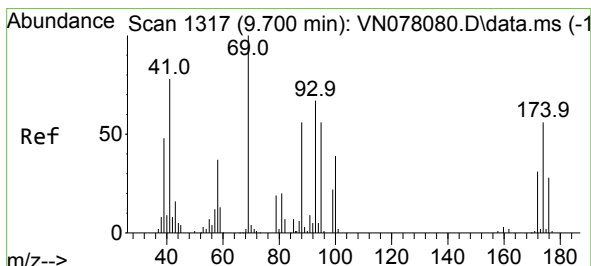
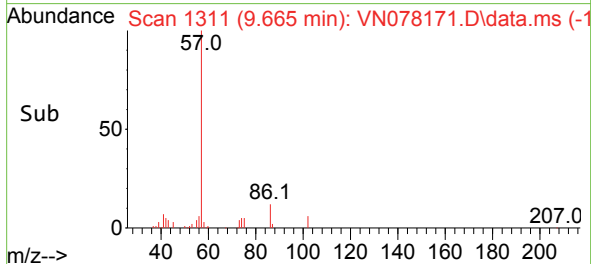
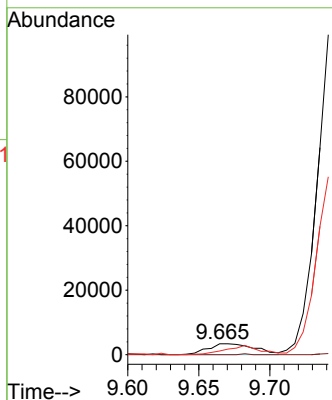
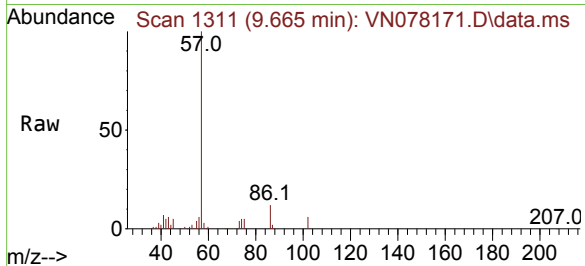




#48
Methyl methacrylate
Concen: 1.605 ug/l
RT: 9.665 min Scan# 1311
Delta R.T. -0.024 min
Lab File: VN078171.D
Acq: 12 Jun 2023 17:06

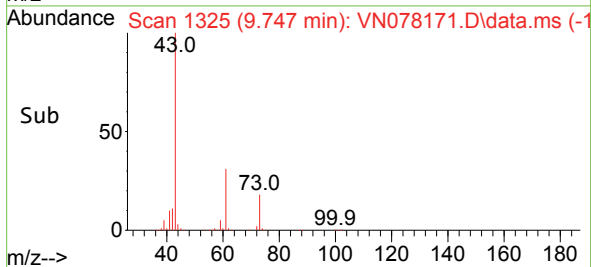
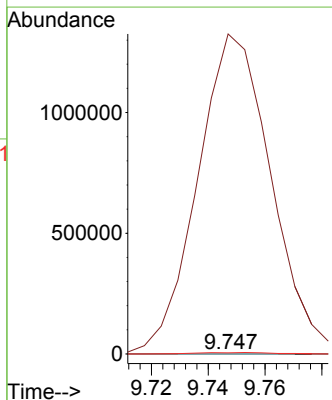
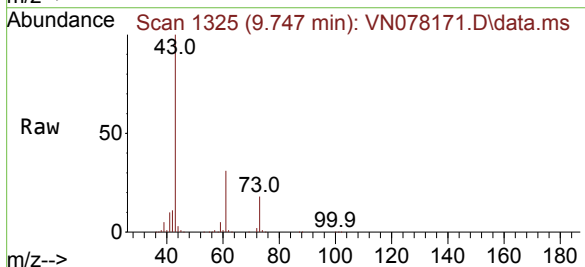
Instrument :
MSVOA_N
ClientSampleId :
TP-3-GA

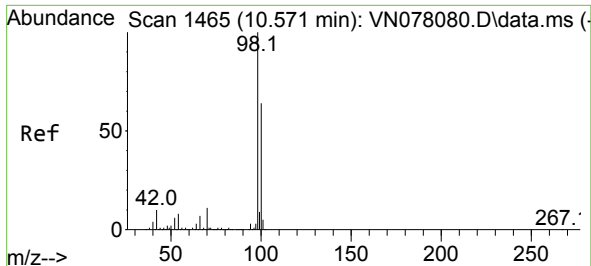
Tgt Ion: 41 Resp: 7871
Ion Ratio Lower Upper
41 100
69 1.3 90.4 135.6#
39 62.9 54.6 81.8



#49
1,4-Dioxane
Concen: 2.251 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.047 min
Lab File: VN078171.D
Acq: 12 Jun 2023 17:06

Tgt Ion: 88 Resp: 232
Ion Ratio Lower Upper
88 100
43 1036419.8 17.0 25.6#
58 4846.1 47.0 70.4#

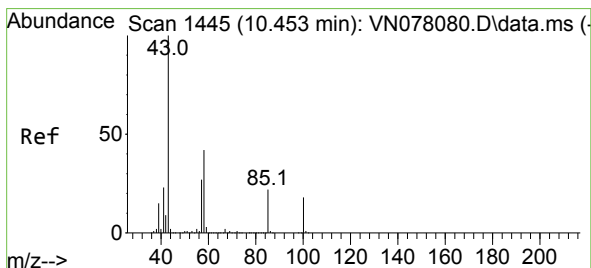
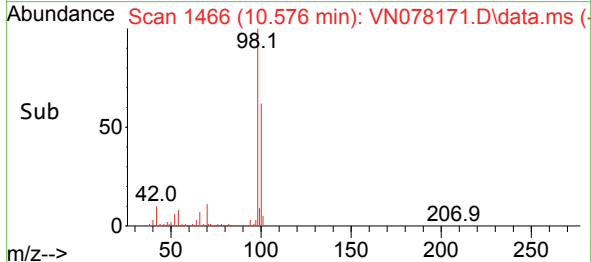
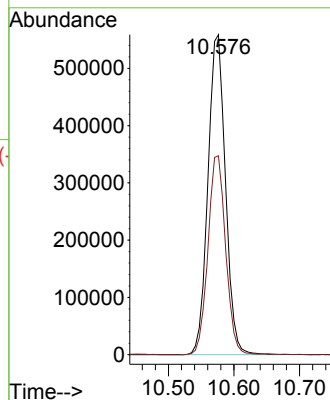
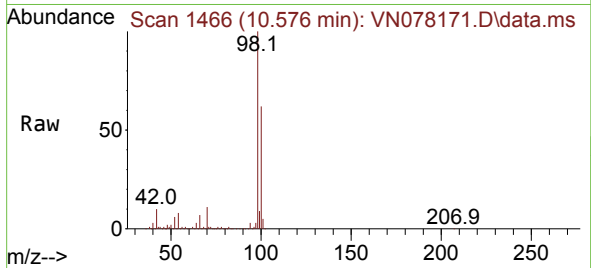




#50
Toluene-d8
Concen: 49.430 ug/l
RT: 10.576 min Scan# 1465
Delta R.T. 0.006 min
Lab File: VN078171.D
Acq: 12 Jun 2023 17:06

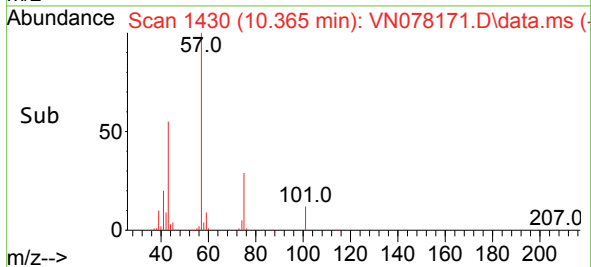
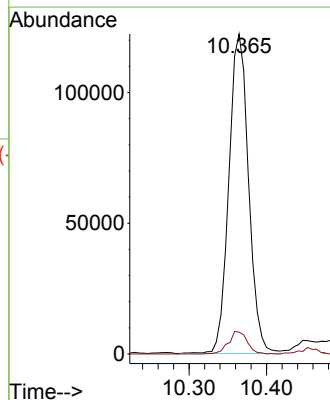
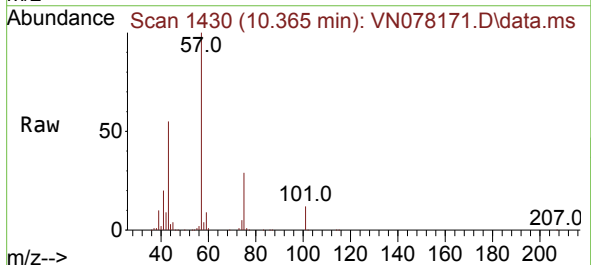
Instrument :
MSVOA_N
ClientSampleId :
TP-3-GA

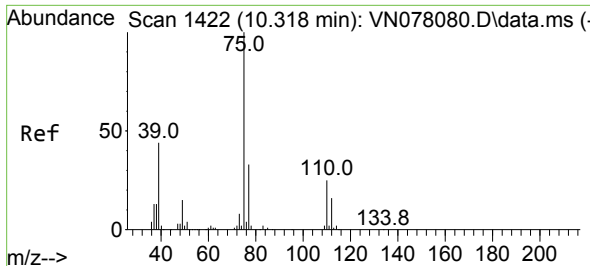
Tgt Ion: 98 Resp: 1039087
Ion Ratio Lower Upper
98 100
100 62.8 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 35.178 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. -0.088 min
Lab File: VN078171.D
Acq: 12 Jun 2023 17:06

Tgt Ion: 43 Resp: 216465
Ion Ratio Lower Upper
43 100
58 6.7 36.6 54.8#

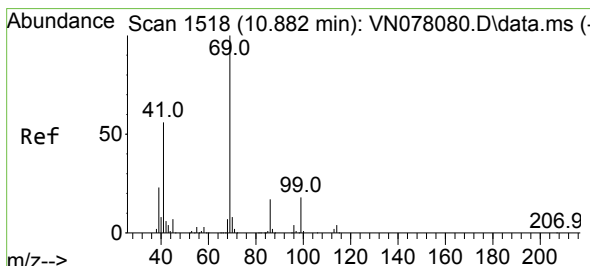
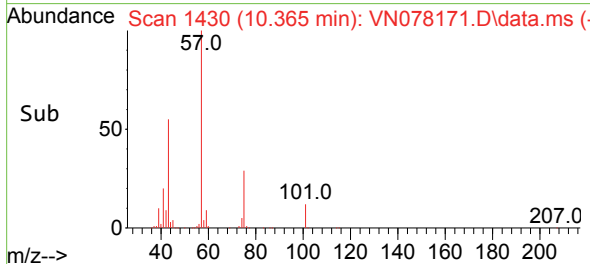
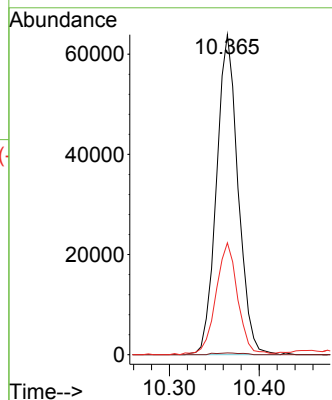
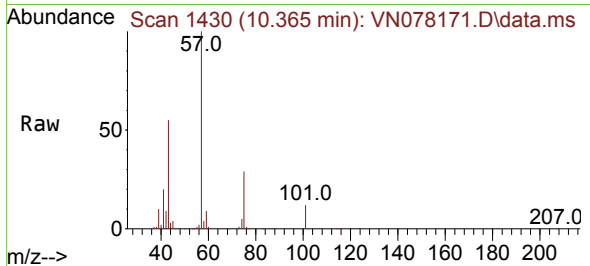




#54
 cis-1,3-Dichloropropene
 Concen: 11.683 ug/l
 RT: 10.365 min Scan# 14
 Delta R.T. 0.047 min
 Lab File: VN078171.D
 Acq: 12 Jun 2023 17:06

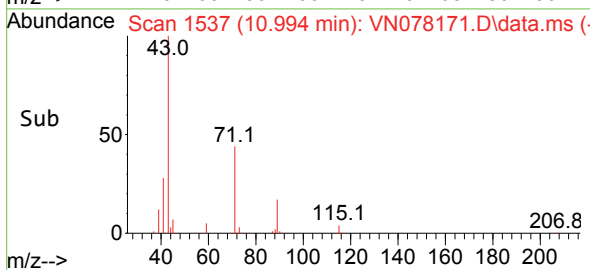
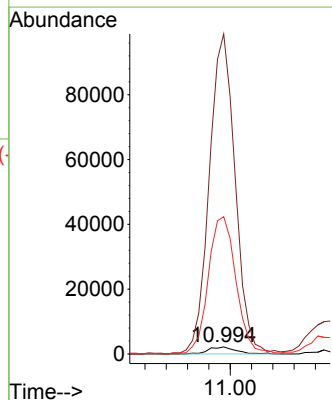
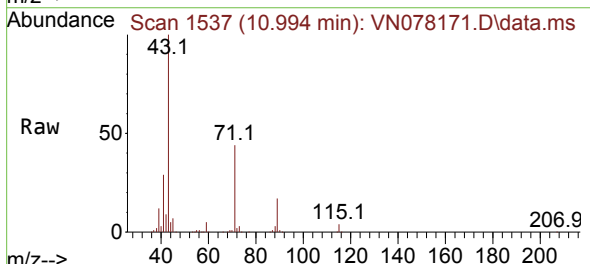
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-3-GA

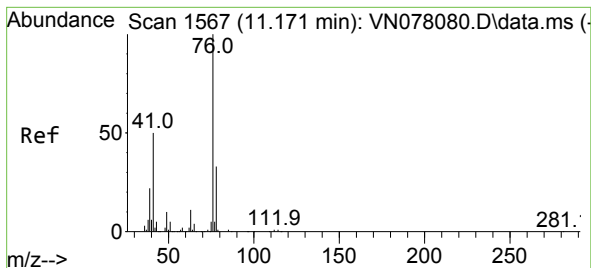
Tgt Ion: 75 Resp: 106905
 Ion Ratio Lower Upper
 75 100
 77 0.5 26.1 39.1#
 39 34.9 31.6 47.4



#56
 Ethyl methacrylate
 Concen: 0.483 ug/l
 RT: 10.994 min Scan# 1537
 Delta R.T. 0.112 min
 Lab File: VN078171.D
 Acq: 12 Jun 2023 17:06

Tgt Ion: 69 Resp: 3919
 Ion Ratio Lower Upper
 69 100
 41 4256.1 39.6 59.4#
 39 1954.5 28.6 43.0#





#57

1,3-Dichloropropane

Concen: 1.364 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.035 min

Lab File: VN078171.D

Acq: 12 Jun 2023 17:06

Instrument :

MSVOA_N

ClientSampleId :

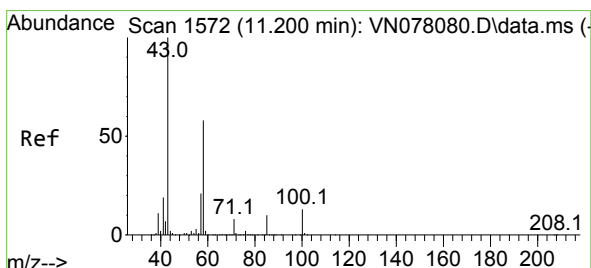
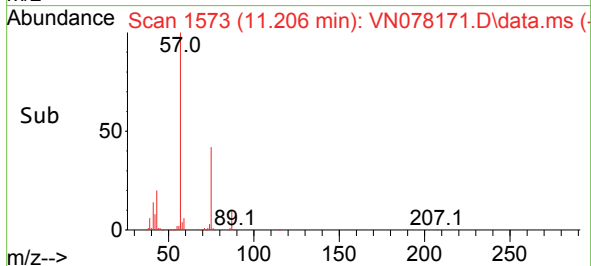
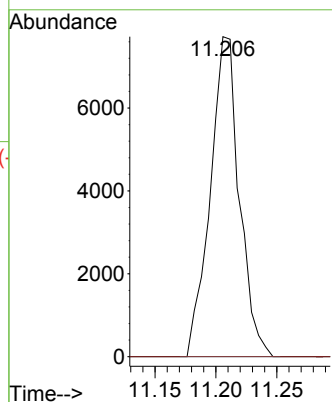
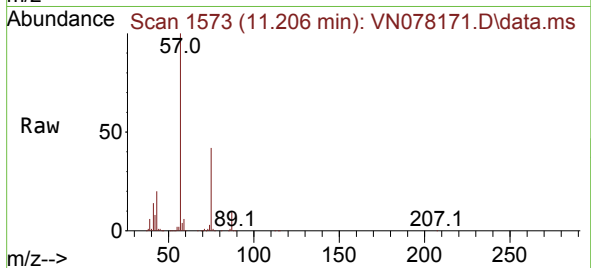
TP-3-GA

Tgt Ion: 76 Resp: 12841

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 55.917 ug/l

RT: 11.176 min Scan# 1568

Delta R.T. -0.024 min

Lab File: VN078171.D

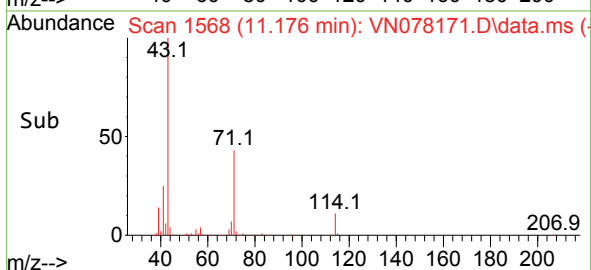
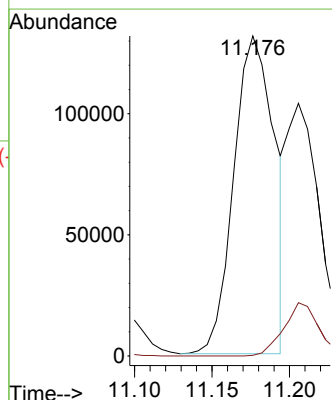
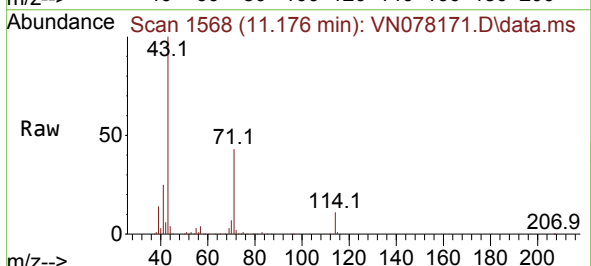
Acq: 12 Jun 2023 17:06

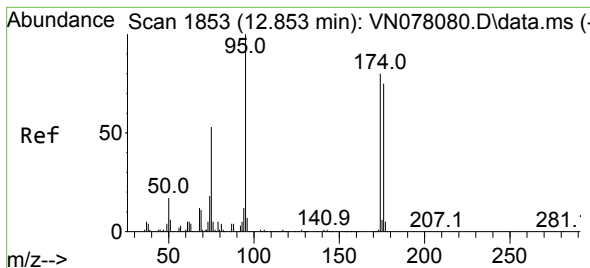
Tgt Ion: 43 Resp: 239579

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

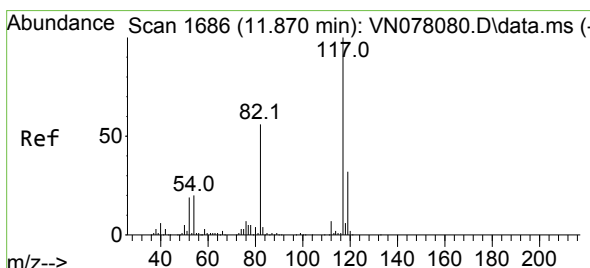
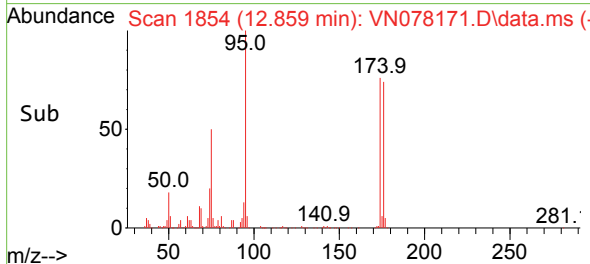
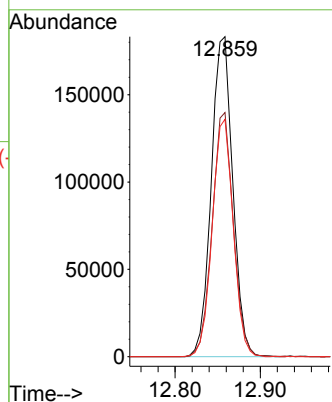
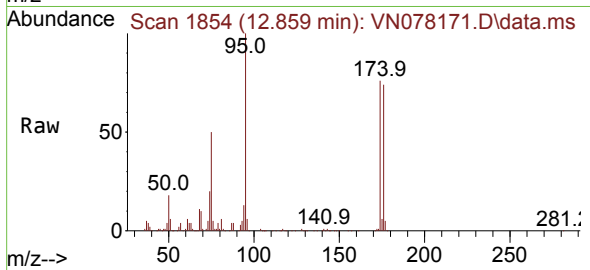




#62
4-Bromofluorobenzene
Concen: 49.113 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.006 min
Lab File: VN078171.D
Acq: 12 Jun 2023 17:06

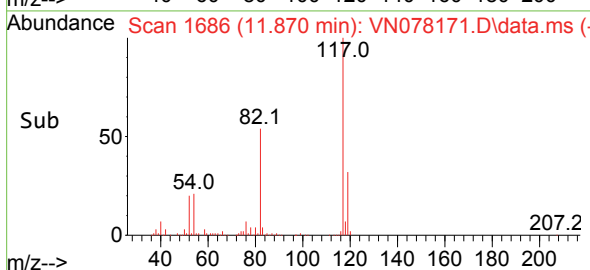
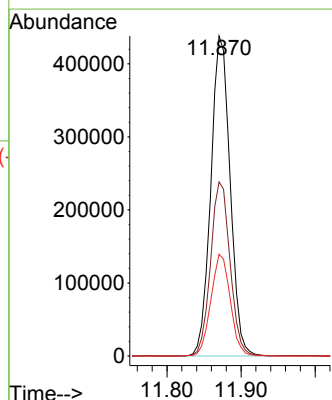
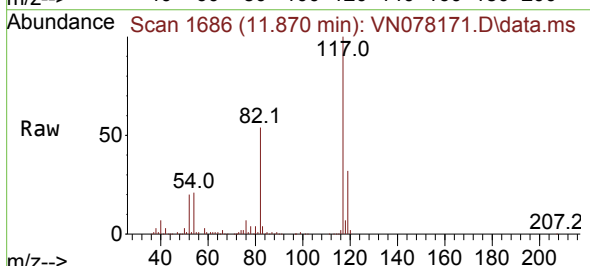
Instrument :
MSVOA_N
ClientSampleId :
TP-3-GA

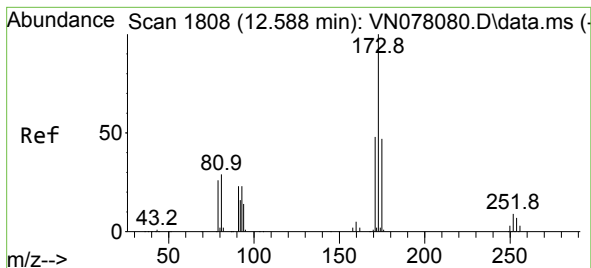
Tgt Ion: 95 Resp: 320959
Ion Ratio Lower Upper
95 100
174 75.4 0.0 143.8
176 72.5 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VN078171.D
Acq: 12 Jun 2023 17:06

Tgt Ion: 117 Resp: 791372
Ion Ratio Lower Upper
117 100
82 54.4 44.0 66.0
119 31.8 25.6 38.4





#71

Bromoform

Concen: 0.716 ug/l

RT: 12.853 min Scan# 1808

Delta R.T. 0.265 min

Lab File: VN078171.D

Acq: 12 Jun 2023 17:06

Instrument :

MSVOA_N

ClientSampleId :

TP-3-GA

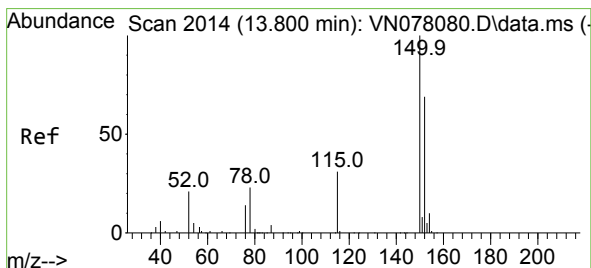
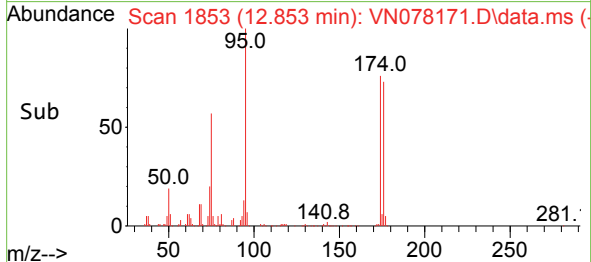
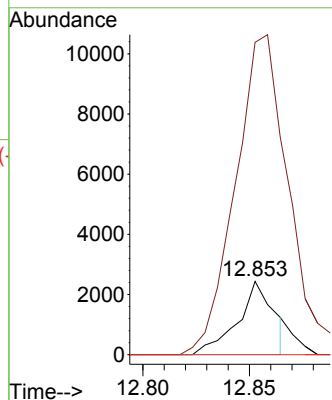
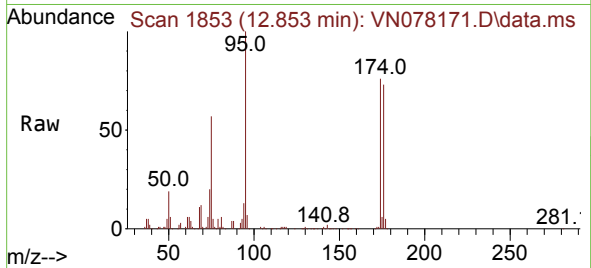
Tgt Ion:173 Resp: 2881

Ion Ratio Lower Upper

173 100

175 529.7 24.3 73.0#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.800 min Scan# 2014

Delta R.T. -0.000 min

Lab File: VN078171.D

Acq: 12 Jun 2023 17:06

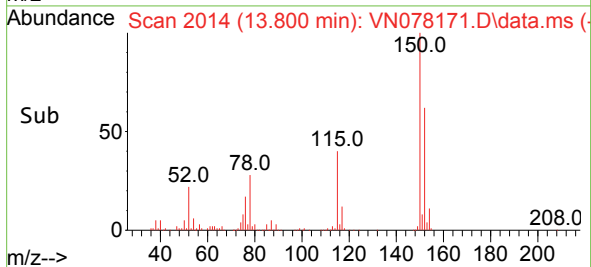
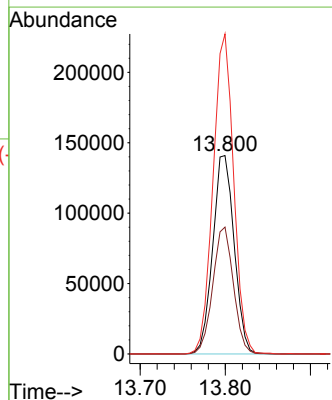
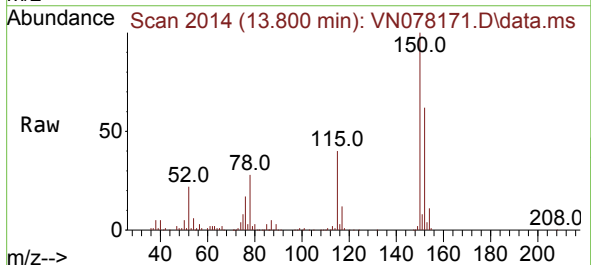
Tgt Ion:152 Resp: 246256

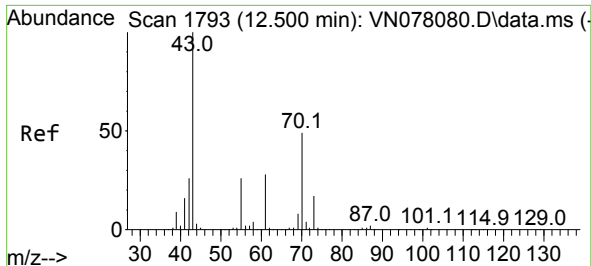
Ion Ratio Lower Upper

152 100

115 61.5 32.3 96.8

150 155.0 0.0 355.8

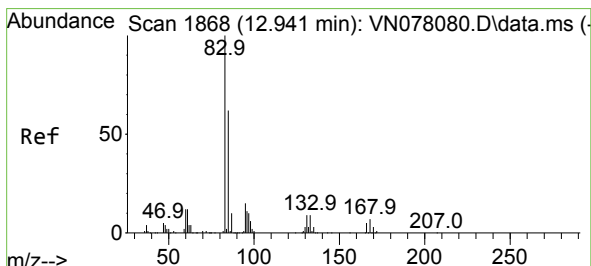
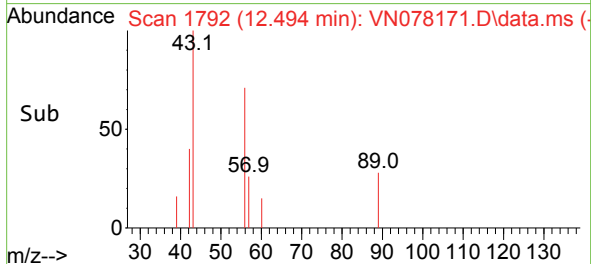
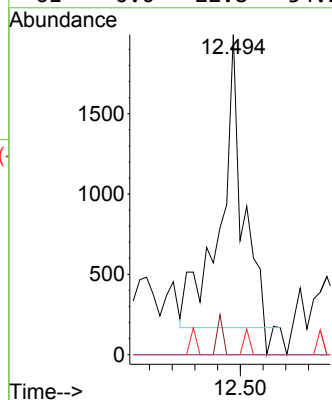
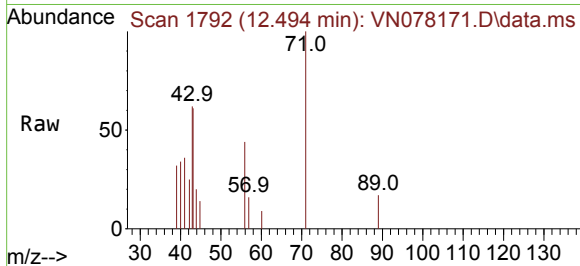




#74
N-amy1 acetate
Concen: 0.318 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. -0.006 min
Lab File: VN078171.D
Acq: 12 Jun 2023 17:06

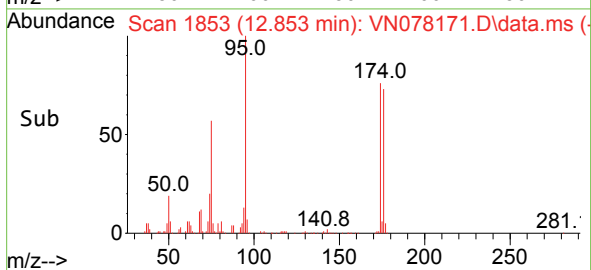
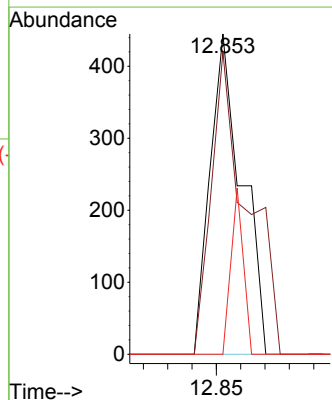
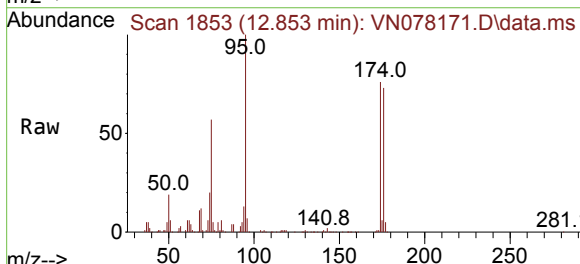
Instrument :
MSVOA_N
ClientSampleId :
TP-3-GA

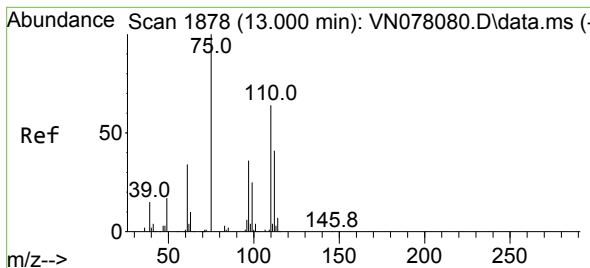
Tgt Ion:	43	Resp:	2437
Ion	Ratio	Lower	Upper
43	100		
70	3.6	43.4	65.2#
55	0.0	21.4	32.0#
61	0.0	22.8	34.2#



#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.853 min Scan# 1853
Delta R.T. -0.088 min
Lab File: VN078171.D
Acq: 12 Jun 2023 17:06

Tgt Ion:	83	Resp:	406
Ion	Ratio	Lower	Upper
83	100		
131	105.4	5.0	15.0#
85	20.2	31.9	95.7#





#76

1,2,3-Trichloropropane

Concen: 29.607 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN078171.D

Acq: 12 Jun 2023 17:06

Instrument :

MSVOA_N

ClientSampleId :

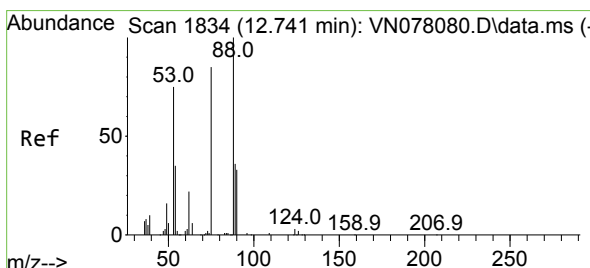
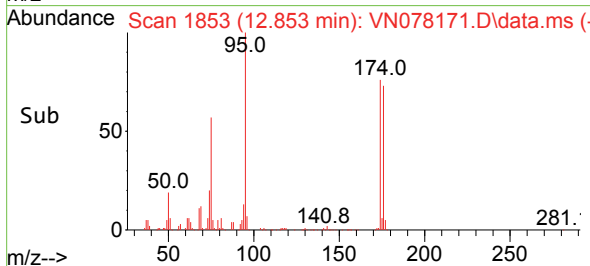
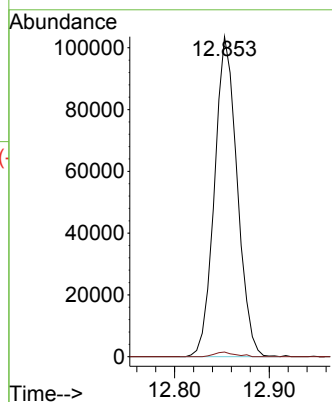
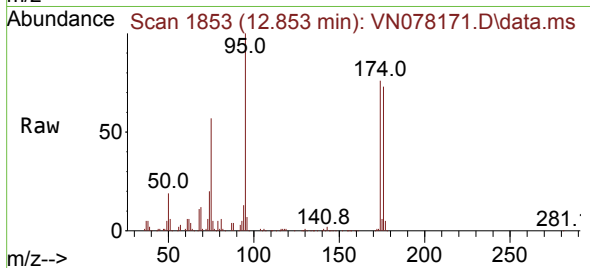
TP-3-GA

Tgt Ion: 75 Resp: 172359

Ion Ratio Lower Upper

75 100

77 1.3 84.5 253.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 90.962 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.112 min

Lab File: VN078171.D

Acq: 12 Jun 2023 17:06

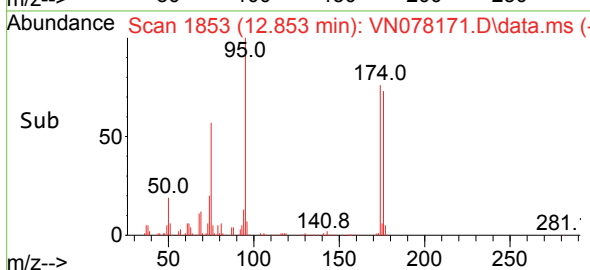
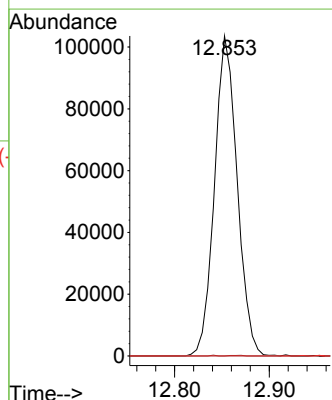
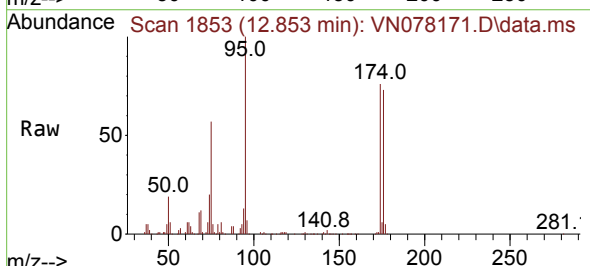
Tgt Ion: 75 Resp: 172359

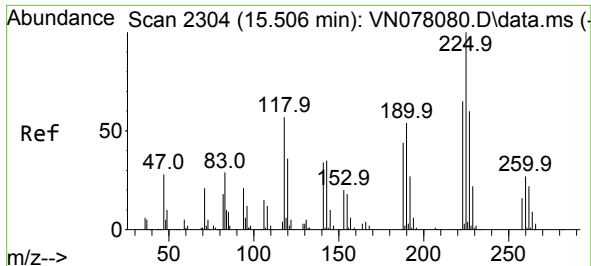
Ion Ratio Lower Upper

75 100

53 0.1 67.4 101.2#

89 0.0 38.8 58.2#





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.511 min Scan# 21

Delta R.T. 0.005 min

Lab File: VN078171.D

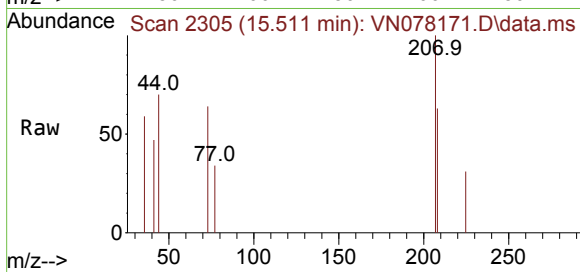
Acq: 12 Jun 2023 17:06

Instrument :

MSVOA_N

ClientSampleId :

TP-3-GA



Tgt Ion:225 Resp: 54

Ion Ratio Lower Upper

225 100

223 0.0 31.3 93.8#

227 0.0 31.9 95.9#

