

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061423\
 Data File : VN078207.D
 Acq On : 14 Jun 2023 15:45
 Operator : JC\MD
 Sample : 03167-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-4-GA

Quant Time: Jun 15 02:45:16 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)

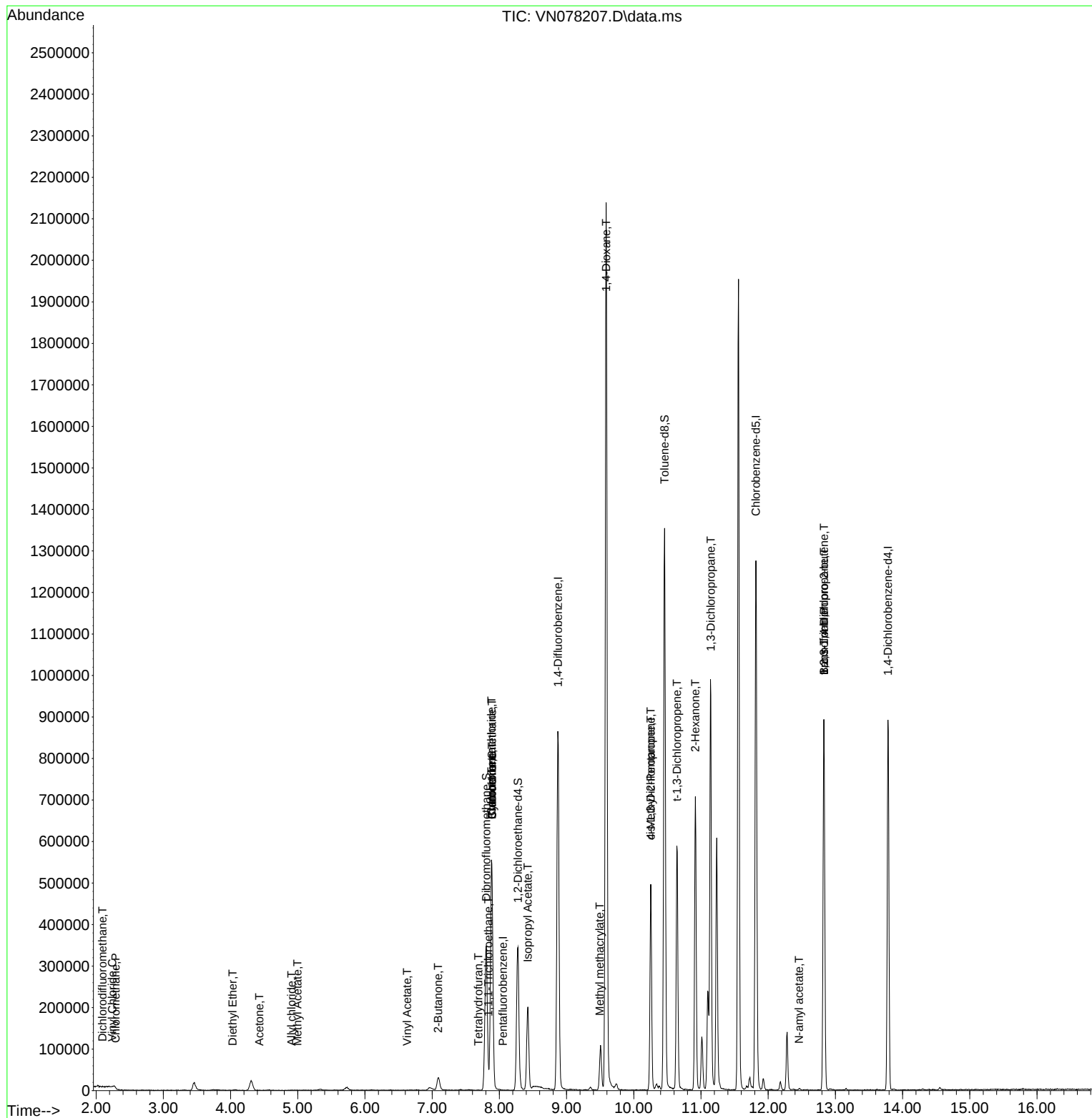
Internal Standards						
1) Pentafluorobenzene	8.053	168	106	50.000	ug/l	#-0.18
34) 1,4-Difluorobenzene	8.871	114	828998	50.000	ug/l	-0.24
63) Chlorobenzene-d5	11.817	117	716250	50.000	ug/l	-0.05
72) 1,4-Dichlorobenzene-d4	13.782	152	245776	50.000	ug/l	-0.02
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.276	65	307597	217643.899	ug/l	-0.31
Spiked Amount	50.000	Range	74 - 125	Recovery	= 435287.800%#	
35) Dibromofluoromethane	7.806	113	274034	52.280	ug/l	-0.37
Spiked Amount	50.000	Range	75 - 124	Recovery	= 104.560%	
50) Toluene-d8	10.459	98	997618	49.370	ug/l	-0.11
Spiked Amount	50.000	Range	86 - 113	Recovery	= 98.740%	
62) 4-Bromofluorobenzene	0.000	95	0	0.000	ug/l	
Spiked Amount	50.000	Range	83 - 123	Recovery	= 0.000%#	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.094	85	56	46.736	ug/l #	43
3) Chloromethane	2.289	50	85	76.367	ug/l #	42
4) Vinyl Chloride	2.242	62	67	42.702	ug/l #	1
8) Diethyl Ether	4.030	74	75	100.320	ug/l #	15
14) Allyl chloride	4.906	41	146	103.327	ug/l #	1
16) Acetone	4.430	43	126	309.734	ug/l #	40
18) Methyl Acetate	4.994	43	112	59.800	ug/l #	42
23) Vinyl Acetate	6.629	43	152	76.933	ug/l #	62
25) 2-Butanone	7.088	43	53655	85769.463	ug/l #	37
28) Bromochloromethane	7.888	49	2012	1998.627	ug/l #	29
29) Tetrahydrofuran	7.688	42	68	162.602	ug/l #	20
30) Chloroform	7.888	83	148	62.686	ug/l #	15
31) Cyclohexane	7.888	56	11204	6179.974	ug/l #	26
32) 1,1,1-Trichloroethane	7.835	97	58	27.982	ug/l #	24
38) Carbon Tetrachloride	7.882	117	31257	3.937	ug/l #	16
43) Isopropyl Acetate	8.423	43	237404	21.135	ug/l #	84
48) Methyl methacrylate	9.494	41	6125	1.299	ug/l #	3
49) 1,4-Dioxane	9.588	88	321	3.240	ug/l #	1
51) 4-Methyl-2-Pentanone	10.253	43	173815	29.385	ug/l #	41
53) t-1,3-Dichloropropene	10.641	75	2083	0.262	ug/l #	1
54) cis-1,3-Dichloropropene	10.253	75	92173	10.479	ug/l #	70
57) 1,3-Dichloropropane	11.147	76	9977	1.103	ug/l #	43
59) 2-Hexanone	10.917	43	479625	116.454	ug/l #	19
71) Bromoform	12.829	173	3346	0.919	ug/l #	1
74) N-amyl acetate	12.459	43	1902	0.249	ug/l #	38
75) 1,1,2,2-Tetrachloroethane	12.841	83	403	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.829	75	173567	29.873	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	173567	91.778	ug/l #	15

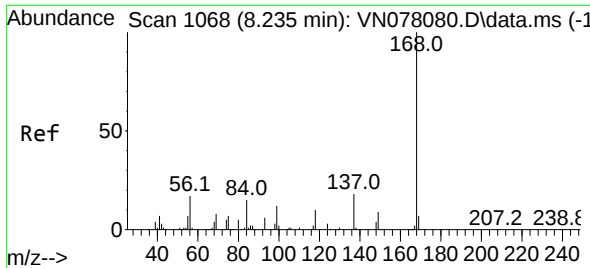
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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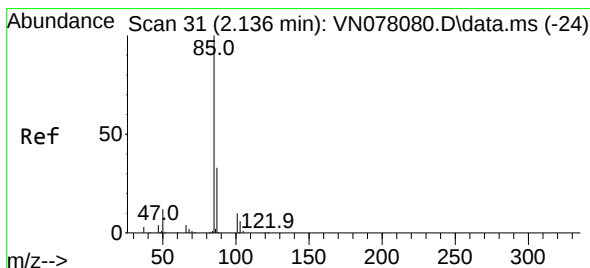
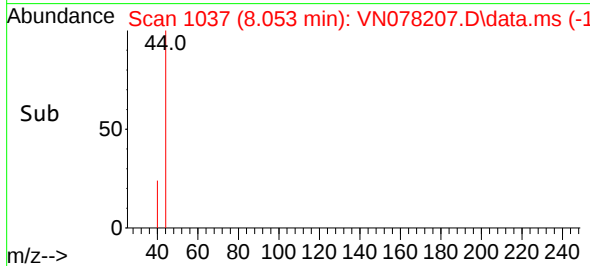
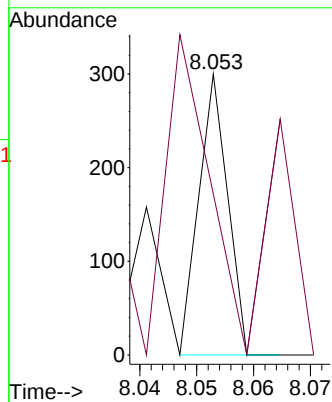
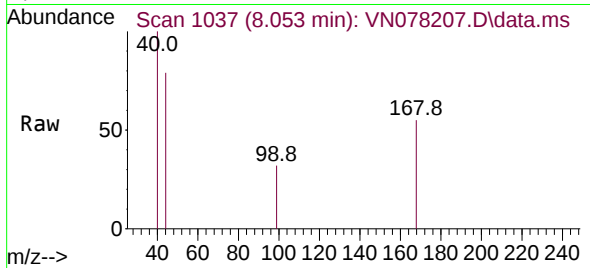




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.053 min Scan# 11
Delta R.T. -0.182 min
Lab File: VN078207.D
Acq: 14 Jun 2023 15:45

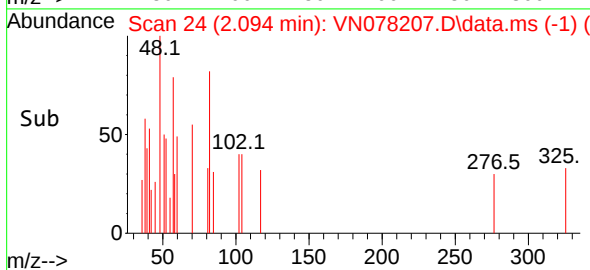
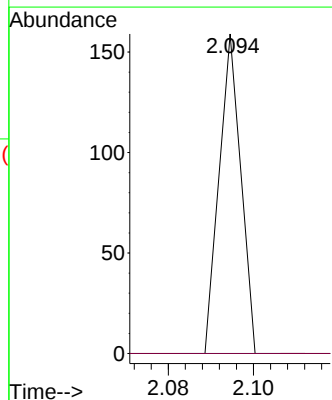
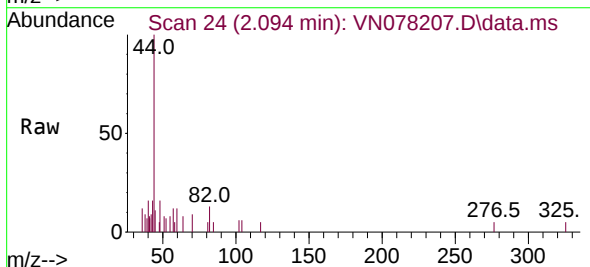
Instrument :
MSVOA_N
ClientSampleId :
TP-4-GA

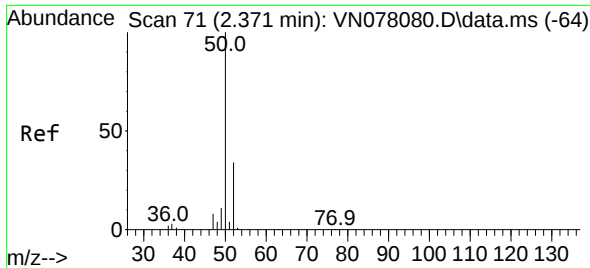
Tgt Ion:168 Resp: 106
Ion Ratio Lower Upper
168 100
99 0.0 53.0 79.6#



#2
Dichlorodifluoromethane
Concen: 46.736 ug/l
RT: 2.094 min Scan# 24
Delta R.T. -0.041 min
Lab File: VN078207.D
Acq: 14 Jun 2023 15:45

Tgt Ion: 85 Resp: 56
Ion Ratio Lower Upper
85 100
87 0.0 15.8 47.4#

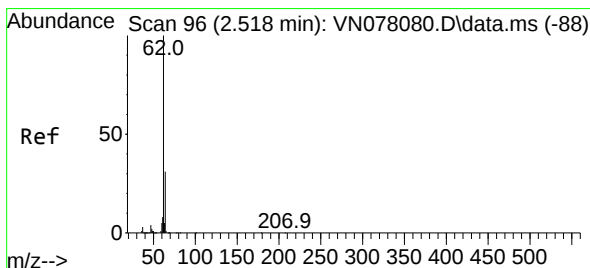
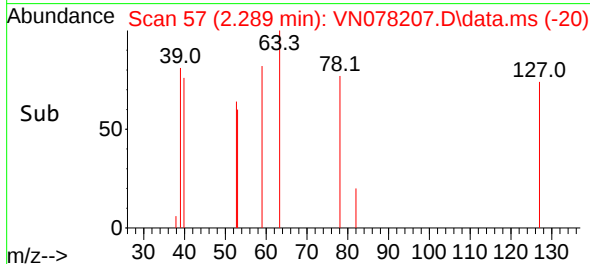
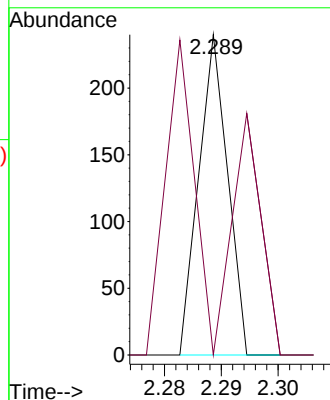
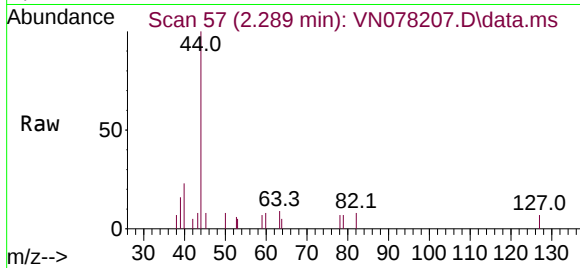




#3
Chloromethane
Concen: 76.367 ug/l
RT: 2.289 min Scan# 51
Delta R.T. -0.082 min
Lab File: VN078207.D
Acq: 14 Jun 2023 15:45

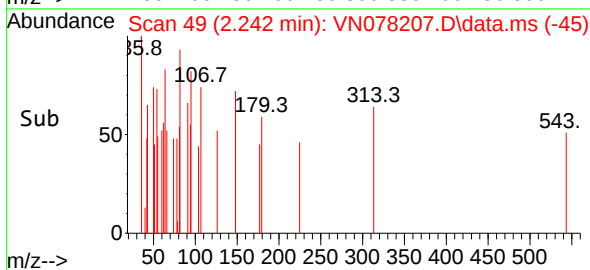
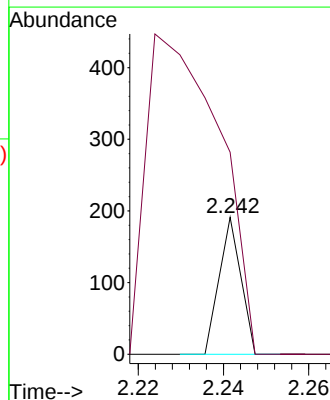
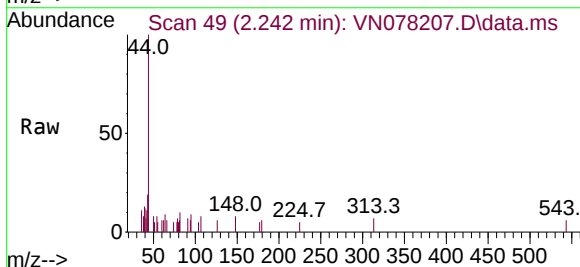
Instrument :
MSVOA_N
ClientSampleId :
TP-4-GA

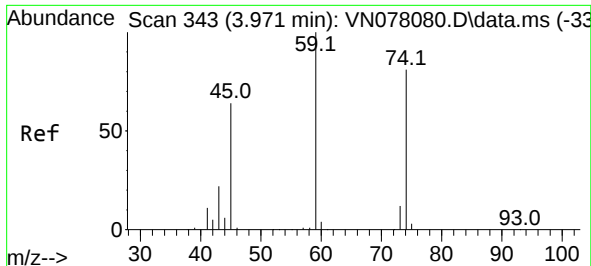
Tgt Ion: 50 Resp: 85
Ion Ratio Lower Upper
50 100
52 0.0 26.5 39.7#



#4
Vinyl Chloride
Concen: 42.702 ug/l
RT: 2.242 min Scan# 49
Delta R.T. -0.277 min
Lab File: VN078207.D
Acq: 14 Jun 2023 15:45

Tgt Ion: 62 Resp: 67
Ion Ratio Lower Upper
62 100
64 147.6 26.2 39.2#





#8

Diethyl Ether

Concen: 100.320 ug/l

RT: 4.030 min Scan# 3

Delta R.T. 0.059 min

Lab File: VN078207.D

Acq: 14 Jun 2023 15:45

Instrument :

MSVOA_N

ClientSampleId :

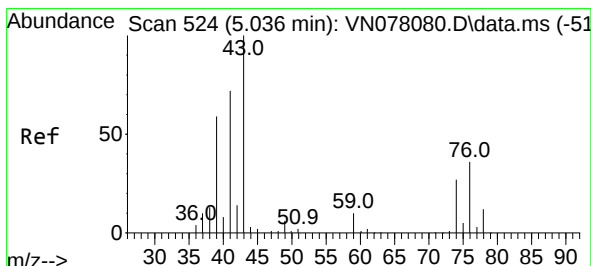
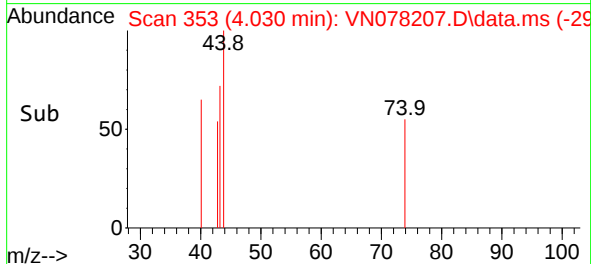
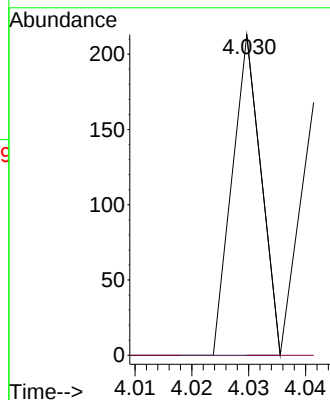
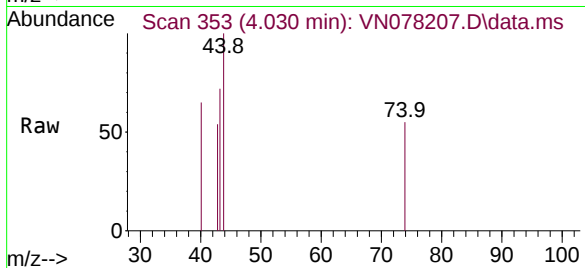
TP-4-GA

Tgt Ion: 74 Resp: 75

Ion Ratio Lower Upper

74 100

45 0.0 34.4 103.3#



#14

Allyl chloride

Concen: 103.327 ug/l

RT: 4.906 min Scan# 502

Delta R.T. -0.130 min

Lab File: VN078207.D

Acq: 14 Jun 2023 15:45

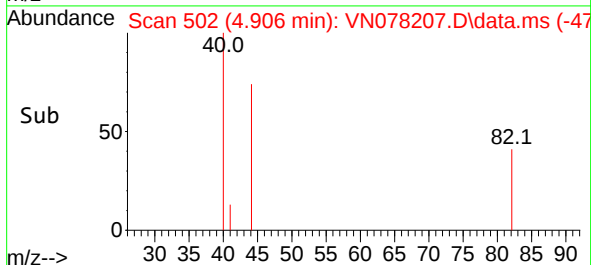
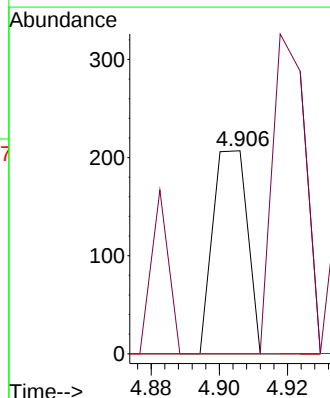
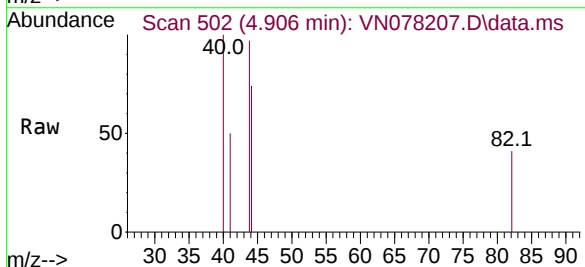
Tgt Ion: 41 Resp: 146

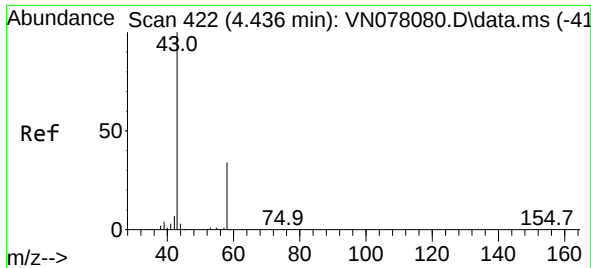
Ion Ratio Lower Upper

41 100

39 193.8 58.8 88.2#

76 0.0 39.1 58.7#

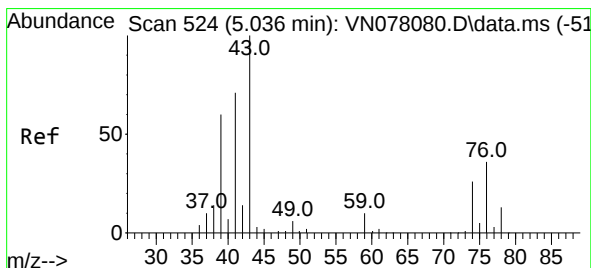
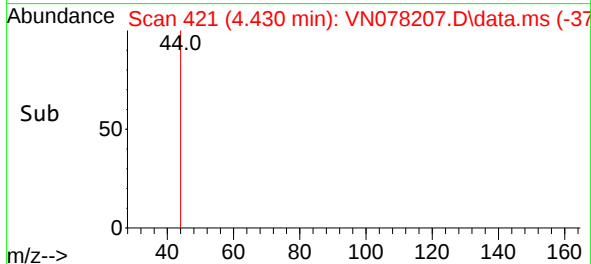
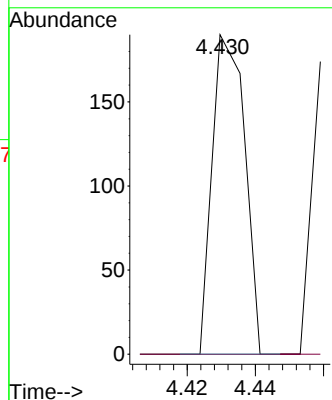
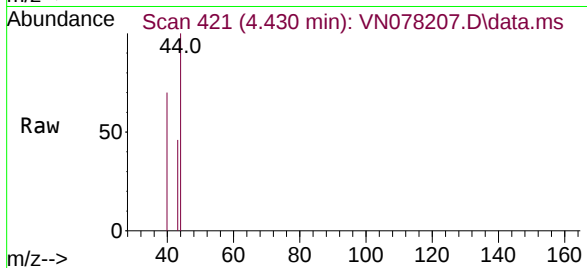




#16
Acetone
Concen: 309.734 ug/l
RT: 4.430 min Scan# 41
Delta R.T. -0.006 min
Lab File: VN078207.D
Acq: 14 Jun 2023 15:45

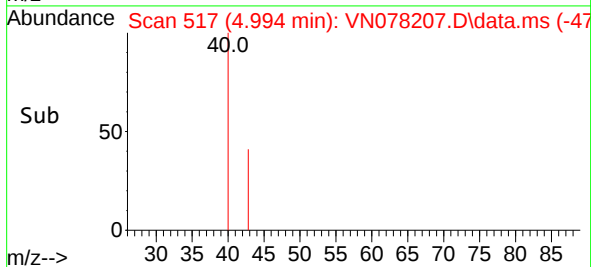
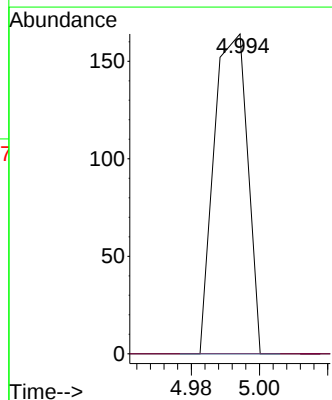
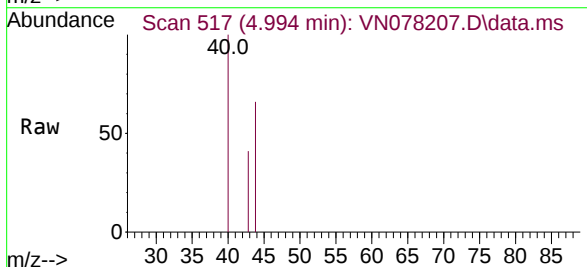
Instrument :
MSVOA_N
ClientSampleId :
TP-4-GA

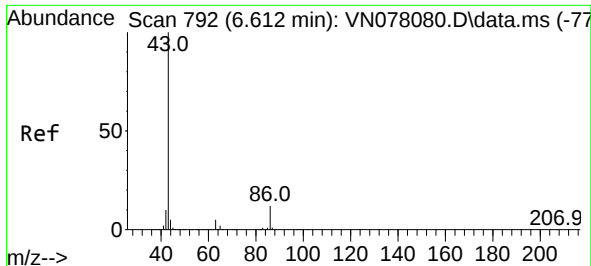
Tgt Ion: 43 Resp: 126
Ion Ratio Lower Upper
43 100
58 0.0 28.0 42.0#



#18
Methyl Acetate
Concen: 59.800 ug/l
RT: 4.994 min Scan# 517
Delta R.T. -0.041 min
Lab File: VN078207.D
Acq: 14 Jun 2023 15:45

Tgt Ion: 43 Resp: 112
Ion Ratio Lower Upper
43 100
74 0.0 26.2 39.4#

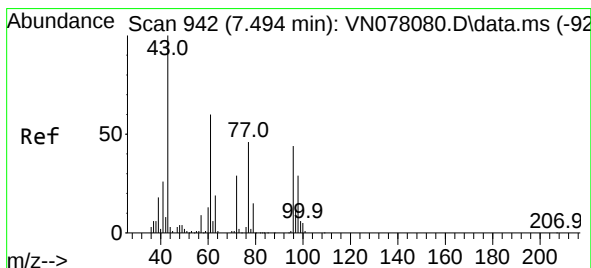
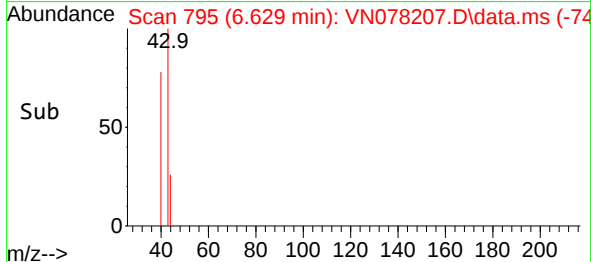
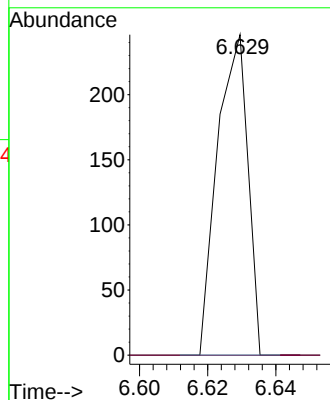
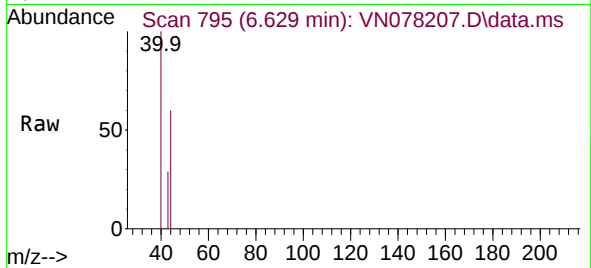




#23
 Vinyl Acetate
 Concen: 76.933 ug/l
 RT: 6.629 min Scan# 795
 Delta R.T. 0.017 min
 Lab File: VN078207.D
 Acq: 14 Jun 2023 15:45

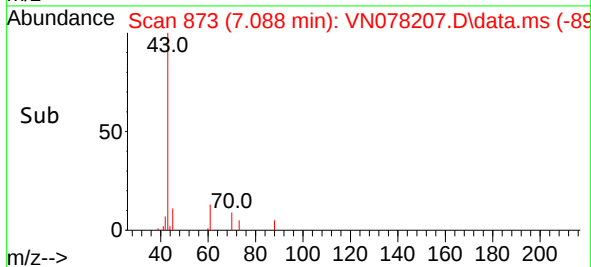
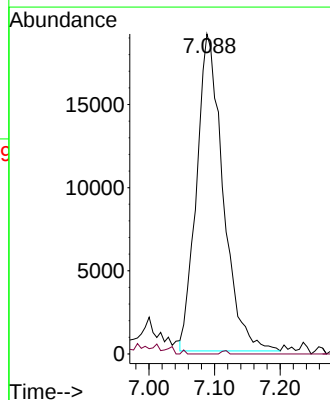
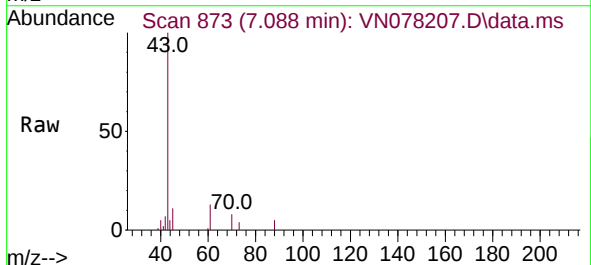
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 TP-4-GA

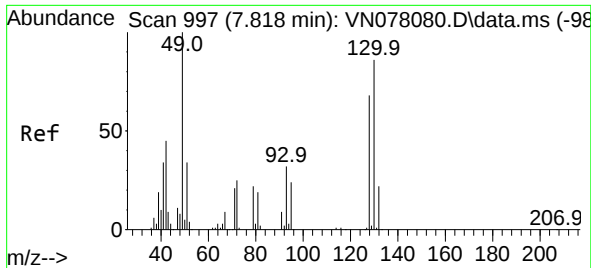
Tgt Ion: 43 Resp: 152
 Ion Ratio Lower Upper
 43 100
 86 0.0 13.0 19.6#



#25
 2-Butanone
 Concen: 85769.463 ug/l
 RT: 7.088 min Scan# 873
 Delta R.T. -0.406 min
 Lab File: VN078207.D
 Acq: 14 Jun 2023 15:45

Tgt Ion: 43 Resp: 53655
 Ion Ratio Lower Upper
 43 100
 72 0.0 30.2 45.2#

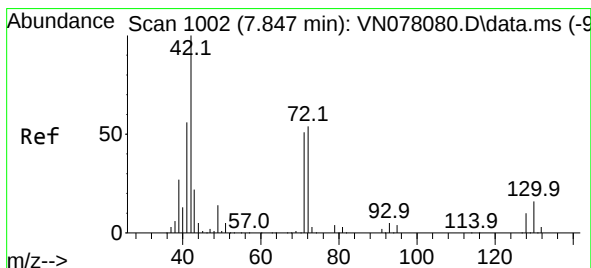
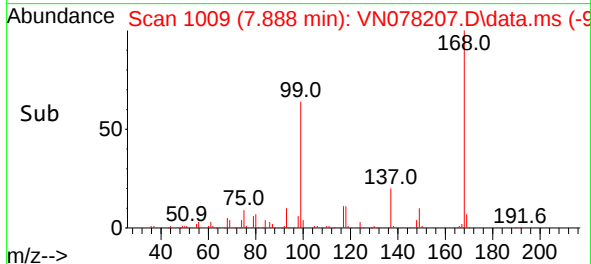
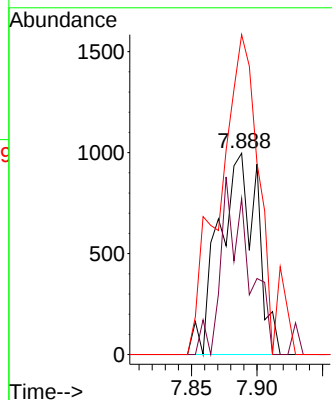
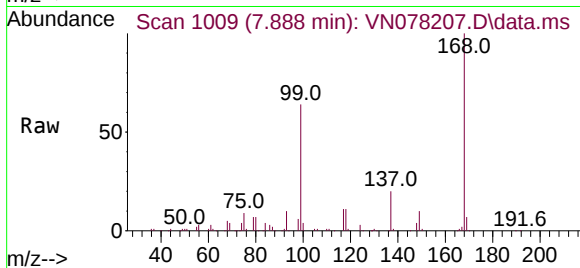




#28
Bromochloromethane
Concen: 1998.627 ug/l
RT: 7.888 min Scan# 1009
Delta R.T. 0.070 min
Lab File: VN078207.D
Acq: 14 Jun 2023 15:45

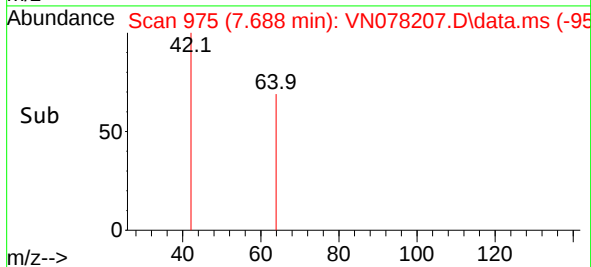
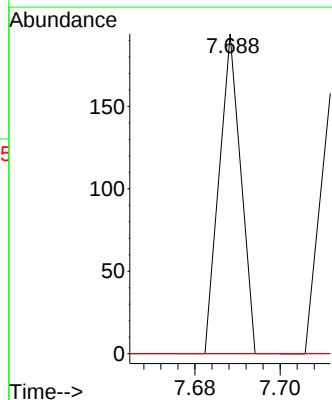
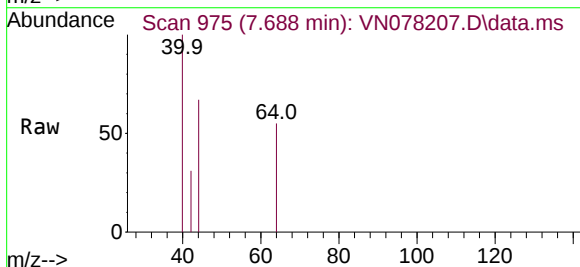
Instrument :
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TP-4-GA

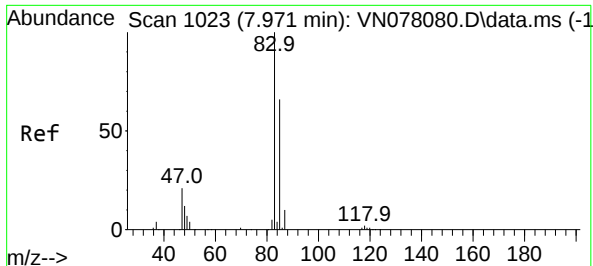
Tgt Ion: 49 Resp: 2012
Ion Ratio Lower Upper
49 100
129 63.5 0.0 4.8#
130 160.0 75.3 112.9#



#29
Tetrahydrofuran
Concen: 162.602 ug/l
RT: 7.688 min Scan# 975
Delta R.T. -0.159 min
Lab File: VN078207.D
Acq: 14 Jun 2023 15:45

Tgt Ion: 42 Resp: 68
Ion Ratio Lower Upper
42 100
72 0.0 49.8 74.6#
71 0.0 47.4 71.2#





#30

Chloroform

Concen: 62.686 ug/l

RT: 7.888 min Scan# 1009

Delta R.T. -0.083 min

Lab File: VN078207.D

Acq: 14 Jun 2023 15:45

Instrument :

MSVOA_N

ClientSampleId :

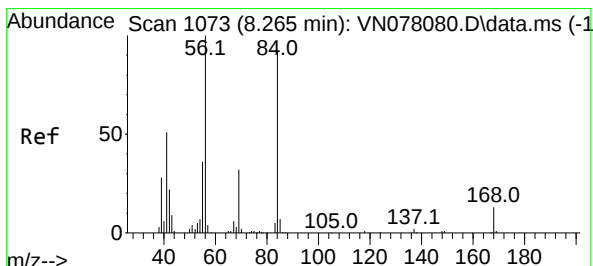
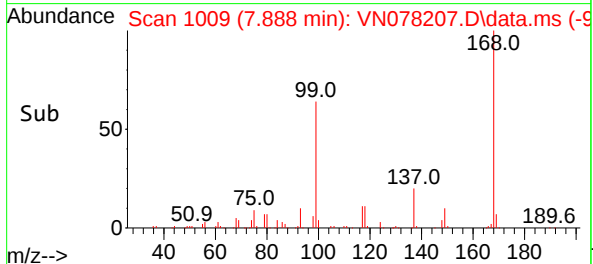
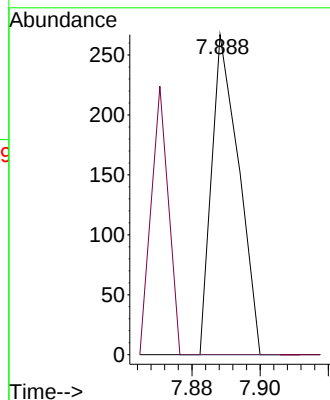
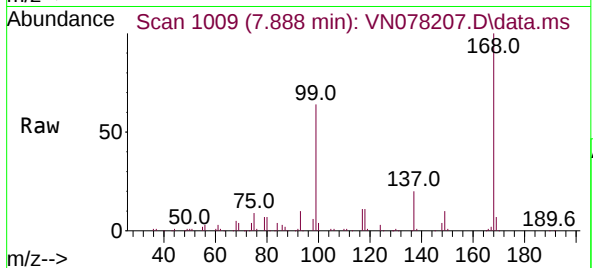
TP-4-GA

Tgt Ion: 83 Resp: 148

Ion Ratio Lower Upper

83 100

85 0.0 55.4 83.0#



#31

Cyclohexane

Concen: 6179.974 ug/l

RT: 7.888 min Scan# 1009

Delta R.T. -0.377 min

Lab File: VN078207.D

Acq: 14 Jun 2023 15:45

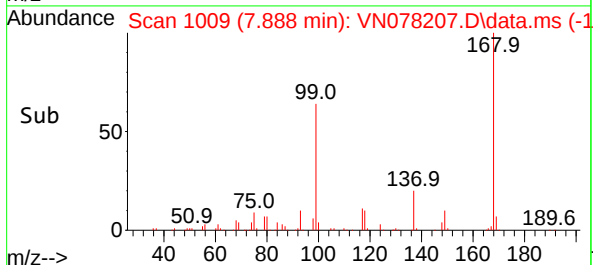
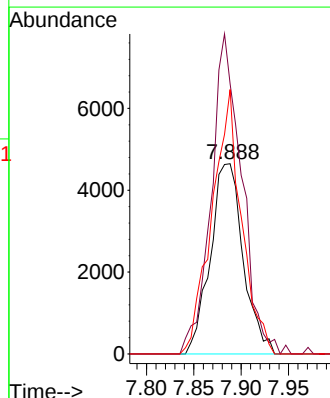
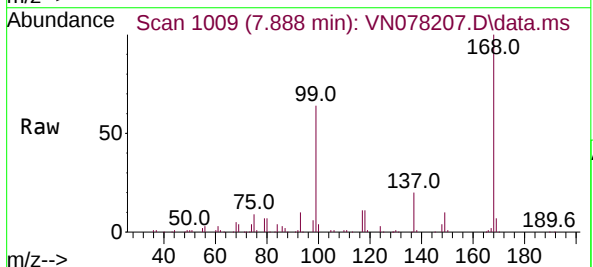
Tgt Ion: 56 Resp: 11204

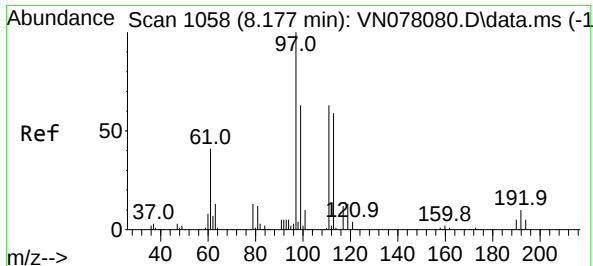
Ion Ratio Lower Upper

56 100

69 142.0 26.8 40.2#

84 139.0 81.8 122.6#

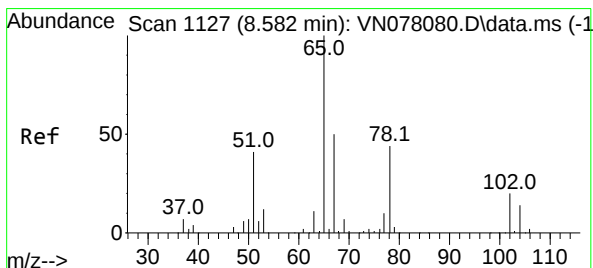
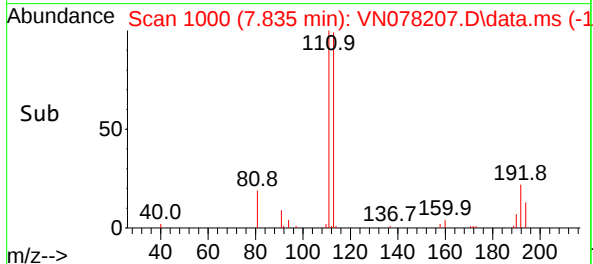
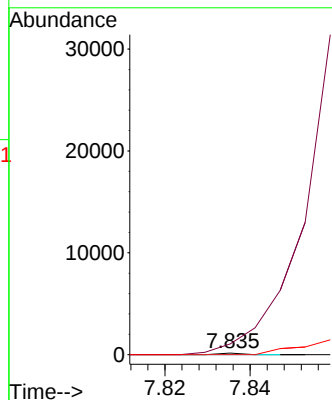
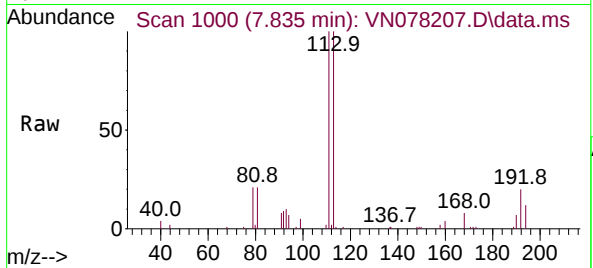




#32
 1,1,1-Trichloroethane
 Concen: 27.982 ug/l
 RT: 7.835 min Scan# 1075
 Delta R.T. -0.342 min
 Lab File: VN078207.D
 Acq: 14 Jun 2023 15:45

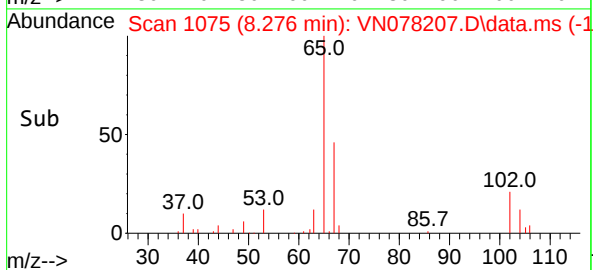
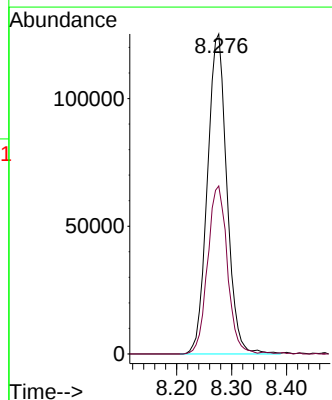
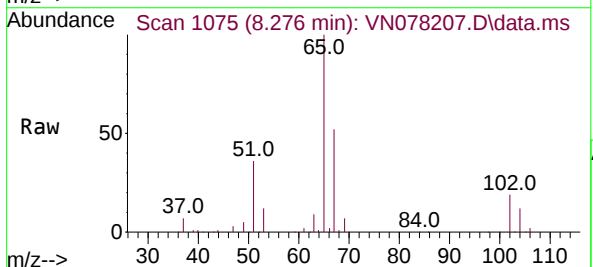
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-4-GA

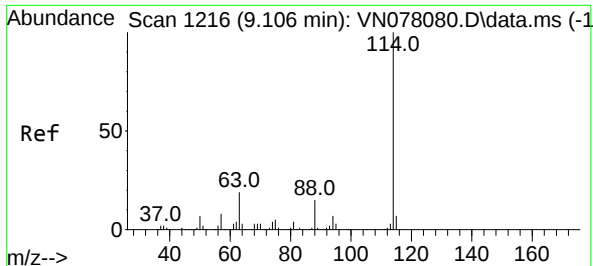
Tgt Ion: 97 Resp: 58
 Ion Ratio Lower Upper
 97 100
 99 0.0 50.3 75.5#
 61 0.0 34.7 52.1#



#33
 1,2-Dichloroethane-d4
 Concen: 217643.899 ug/l
 RT: 8.276 min Scan# 1075
 Delta R.T. -0.306 min
 Lab File: VN078207.D
 Acq: 14 Jun 2023 15:45

Tgt Ion: 65 Resp: 307597
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.871 min Scan# 1176

Delta R.T. -0.235 min

Lab File: VN078207.D

Acq: 14 Jun 2023 15:45

Instrument :

MSVOA_N

ClientSampleId :

TP-4-GA

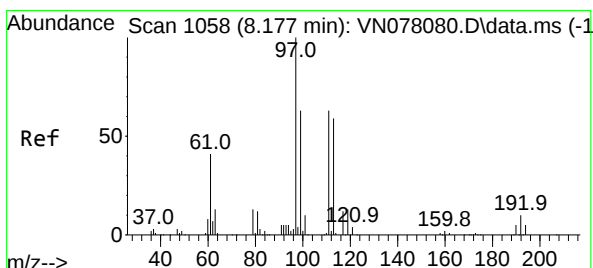
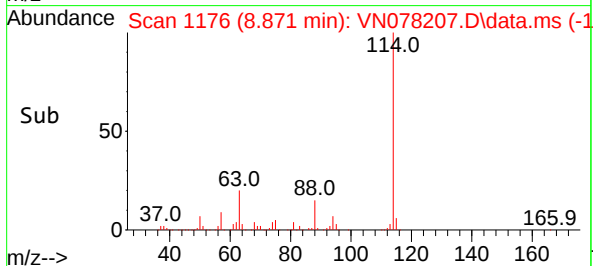
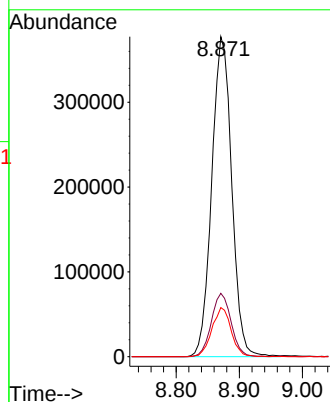
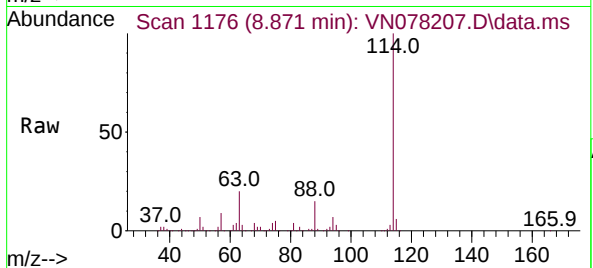
Tgt Ion:114 Resp: 828998

Ion Ratio Lower Upper

114 100

63 19.8 0.0 36.4

88 15.4 0.0 30.6



#35

Dibromofluoromethane

Concen: 52.280 ug/l

RT: 7.806 min Scan# 995

Delta R.T. -0.371 min

Lab File: VN078207.D

Acq: 14 Jun 2023 15:45

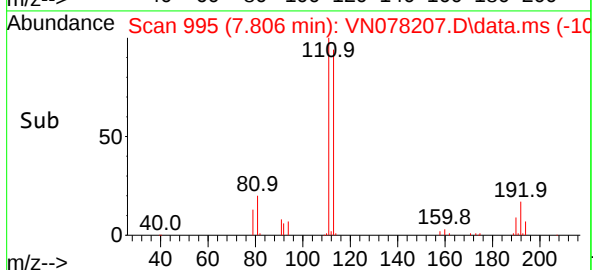
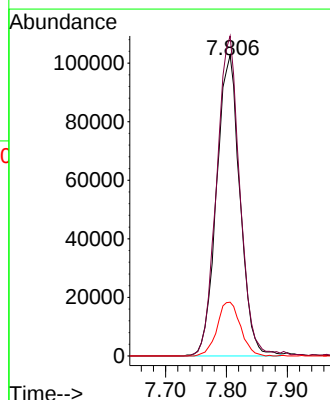
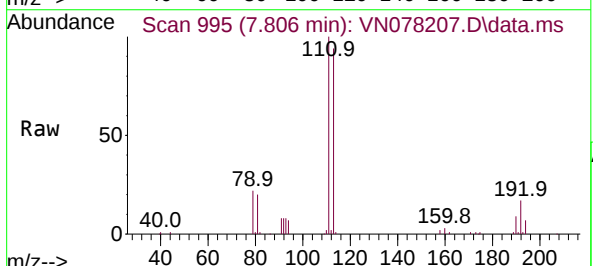
Tgt Ion:113 Resp: 274034

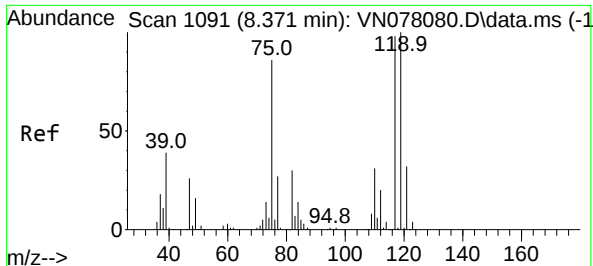
Ion Ratio Lower Upper

113 100

111 105.9 82.6 123.8

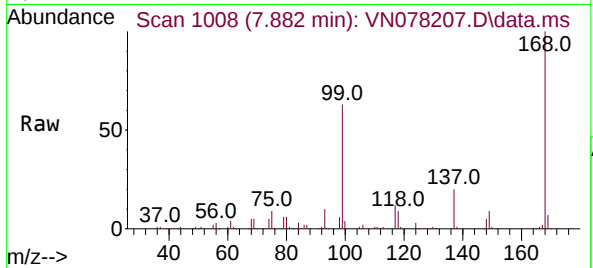
192 17.9 12.7 19.1



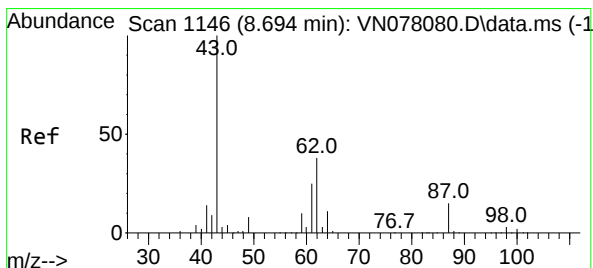
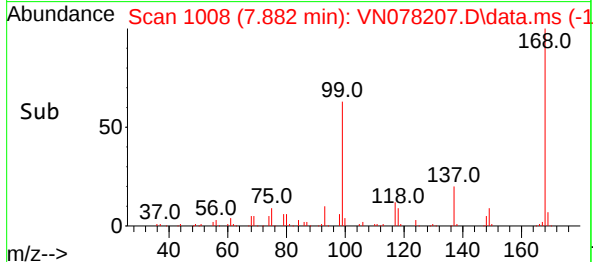
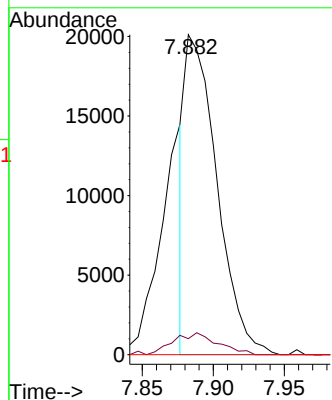


#38
Carbon Tetrachloride
Concen: 3.937 ug/l
RT: 7.882 min Scan# 1100
Delta R.T. -0.488 min
Lab File: VN078207.D
Acq: 14 Jun 2023 15:45

Instrument :
MSVOA_N
ClientSampleId :
TP-4-GA

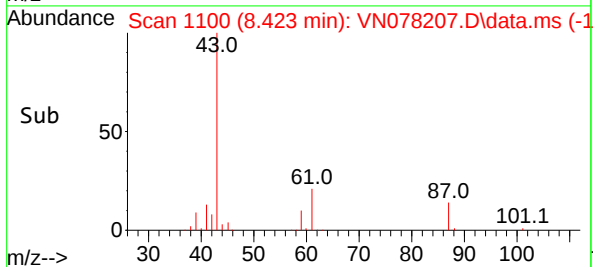
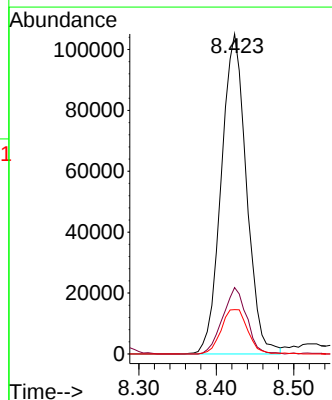
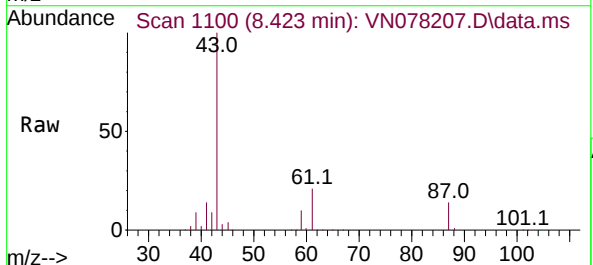


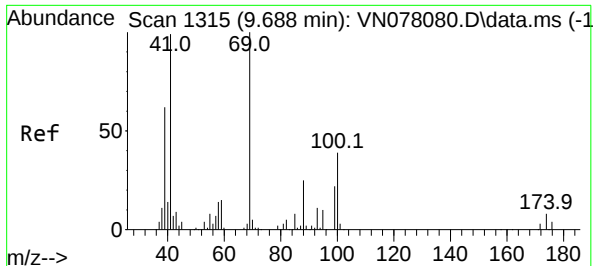
Tgt Ion:117 Resp: 31257
Ion Ratio Lower Upper
117 100
119 5.0 77.3 115.9#
121 0.0 23.3 34.9#



#43
Isopropyl Acetate
Concen: 21.135 ug/l
RT: 8.423 min Scan# 1100
Delta R.T. -0.271 min
Lab File: VN078207.D
Acq: 14 Jun 2023 15:45

Tgt Ion: 43 Resp: 237404
Ion Ratio Lower Upper
43 100
61 19.7 24.7 37.1#
87 14.5 14.6 21.8#

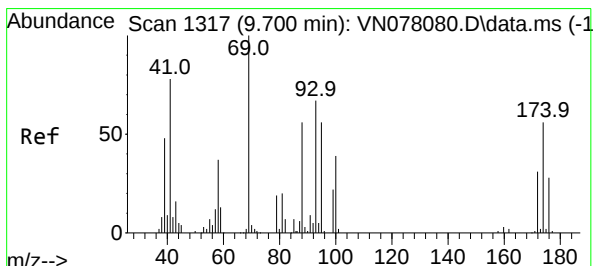
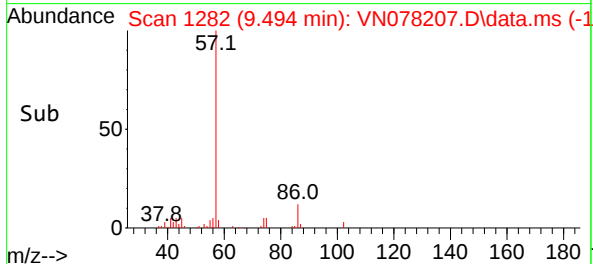
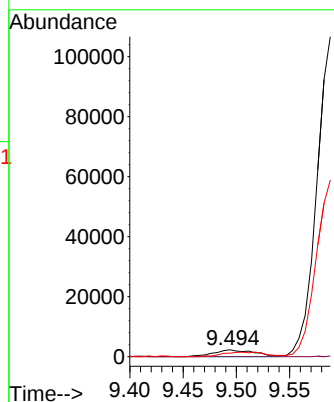
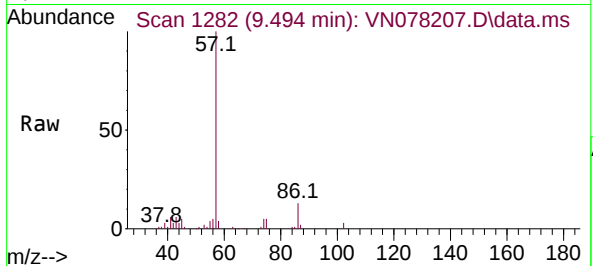




#48
Methyl methacrylate
Concen: 1.299 ug/l
RT: 9.494 min Scan# 1282
Delta R.T. -0.194 min
Lab File: VN078207.D
Acq: 14 Jun 2023 15:45

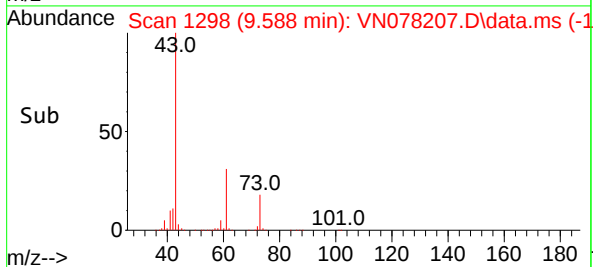
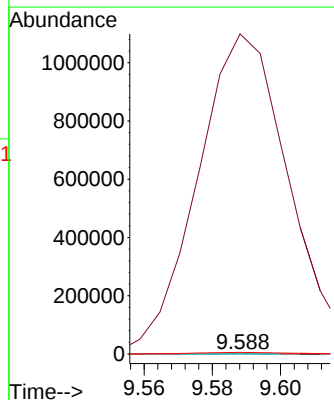
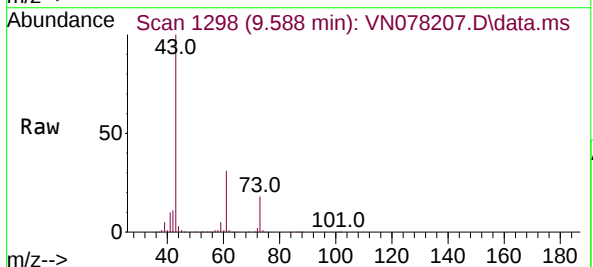
Instrument :
MSVOA_N
ClientSampleId :
TP-4-GA

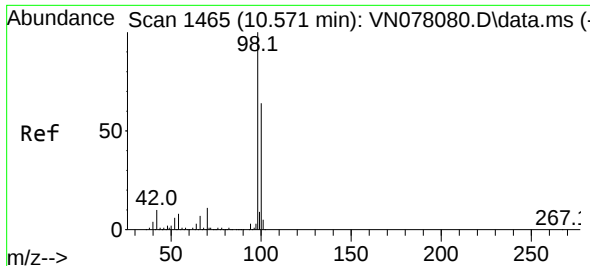
Tgt Ion: 41 Resp: 6125
Ion Ratio Lower Upper
41 100
69 0.0 90.4 135.6#
39 0.0 54.6 81.8#



#49
1,4-Dioxane
Concen: 3.240 ug/l
RT: 9.588 min Scan# 1298
Delta R.T. -0.112 min
Lab File: VN078207.D
Acq: 14 Jun 2023 15:45

Tgt Ion: 88 Resp: 321
Ion Ratio Lower Upper
88 100
43 650314.0 17.0 25.6#
58 3244.2 47.0 70.4#

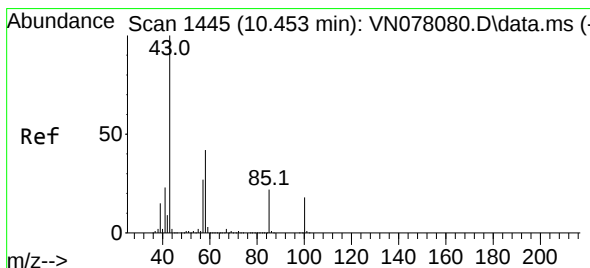
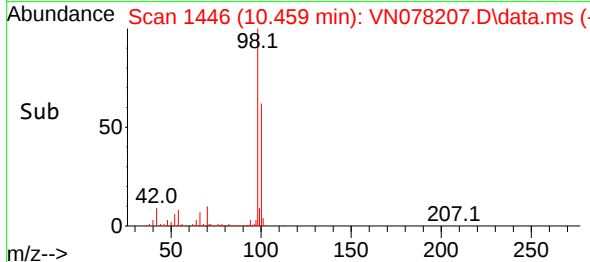
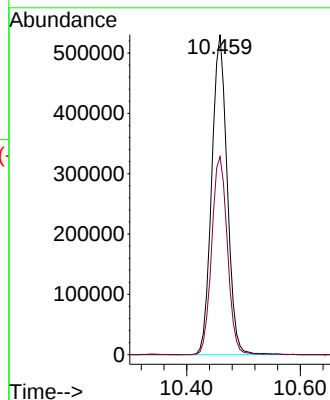
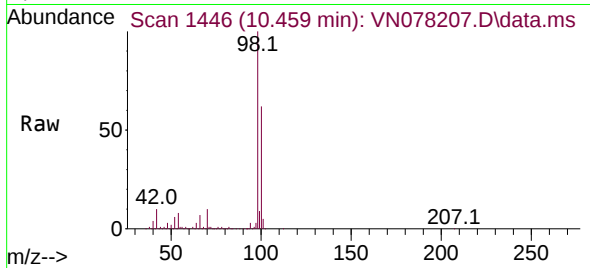




#50
Toluene-d8
Concen: 49.370 ug/l
RT: 10.459 min Scan# 1411
Delta R.T. -0.112 min
Lab File: VN078207.D
Acq: 14 Jun 2023 15:45

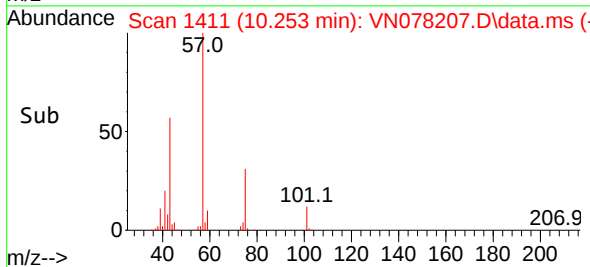
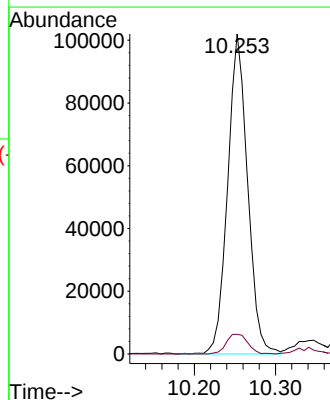
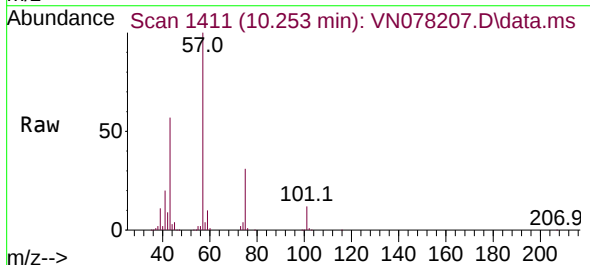
Instrument :
MSVOA_N
ClientSampleId :
TP-4-GA

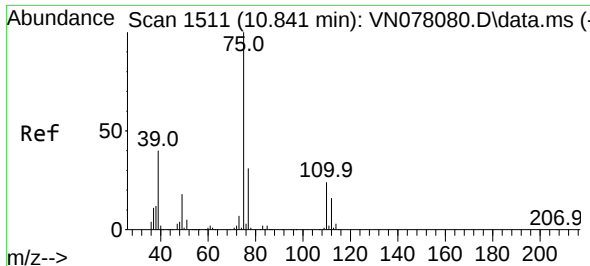
Tgt Ion: 98 Resp: 997618
Ion Ratio Lower Upper
98 100
100 62.9 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 29.385 ug/l
RT: 10.253 min Scan# 1411
Delta R.T. -0.200 min
Lab File: VN078207.D
Acq: 14 Jun 2023 15:45

Tgt Ion: 43 Resp: 173815
Ion Ratio Lower Upper
43 100
58 6.7 36.6 54.8#

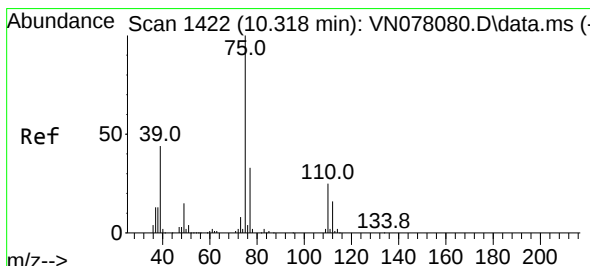
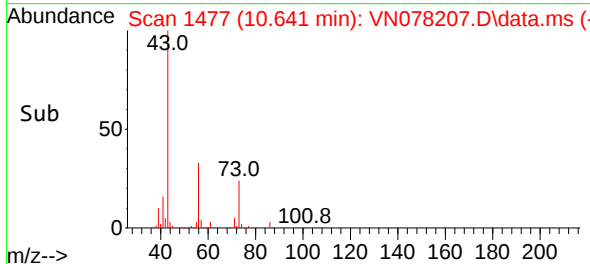
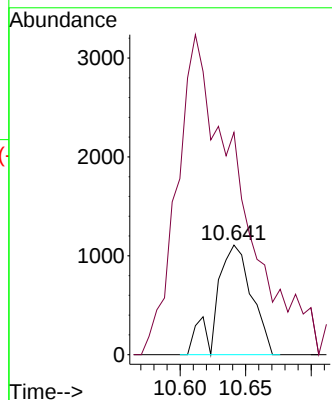
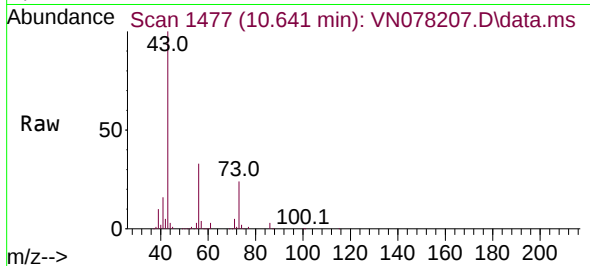




#53
t-1,3-Dichloropropene
Concen: 0.262 ug/l
RT: 10.641 min Scan# 1411
Delta R.T. -0.200 min
Lab File: VN078207.D
Acq: 14 Jun 2023 15:45

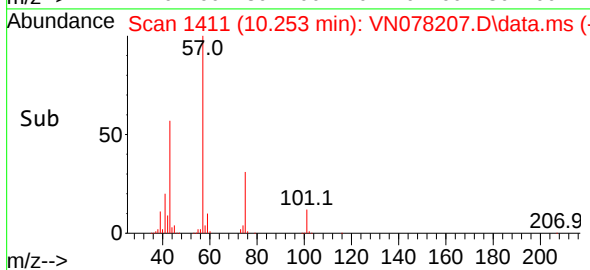
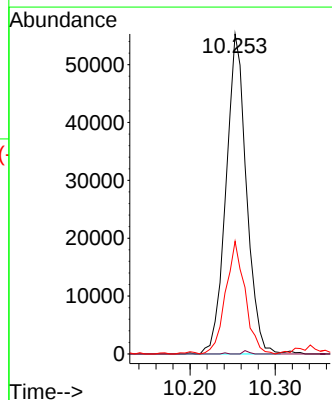
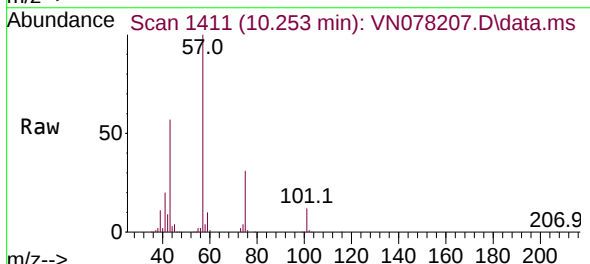
Instrument :
MSVOA_N
ClientSampleId :
TP-4-GA

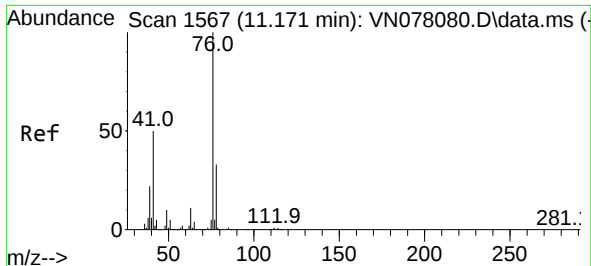
Tgt Ion: 75 Resp: 2083
Ion Ratio Lower Upper
75 100
77 143.1 25.4 38.0#



#54
cis-1,3-Dichloropropene
Concen: 10.479 ug/l
RT: 10.253 min Scan# 1411
Delta R.T. -0.065 min
Lab File: VN078207.D
Acq: 14 Jun 2023 15:45

Tgt Ion: 75 Resp: 92173
Ion Ratio Lower Upper
75 100
77 0.0 26.1 39.1#
39 34.9 31.6 47.4





#57

1,3-Dichloropropane

Concen: 1.103 ug/l

RT: 11.147 min Scan# 1563

Delta R.T. -0.024 min

Lab File: VN078207.D

Acq: 14 Jun 2023 15:45

Instrument :

MSVOA_N

ClientSampleId :

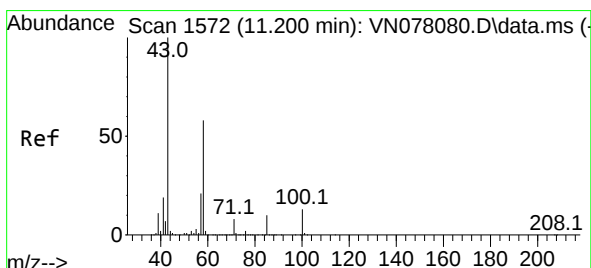
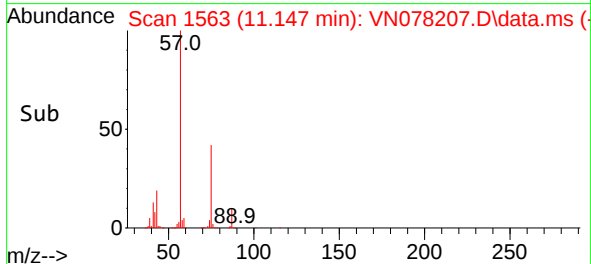
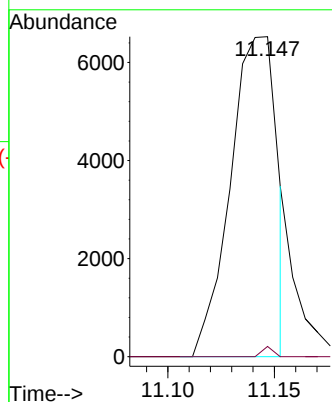
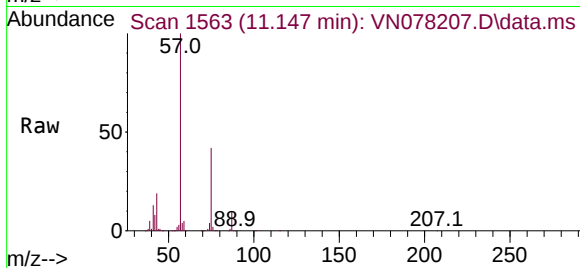
TP-4-GA

Tgt Ion: 76 Resp: 9977

Ion Ratio Lower Upper

76 100

78 0.7 26.1 39.1#



#59

2-Hexanone

Concen: 116.454 ug/l

RT: 10.917 min Scan# 1524

Delta R.T. -0.283 min

Lab File: VN078207.D

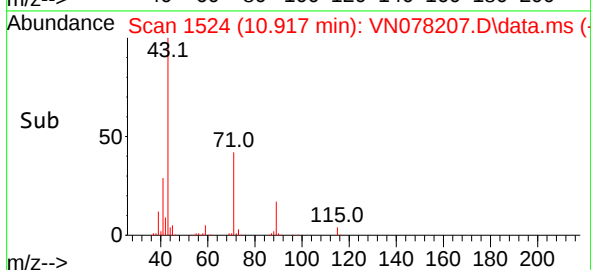
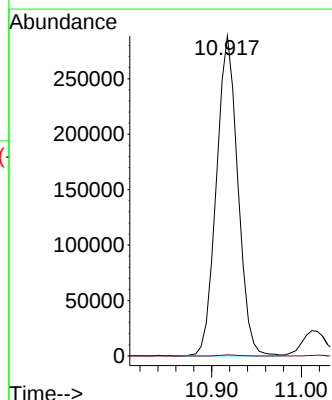
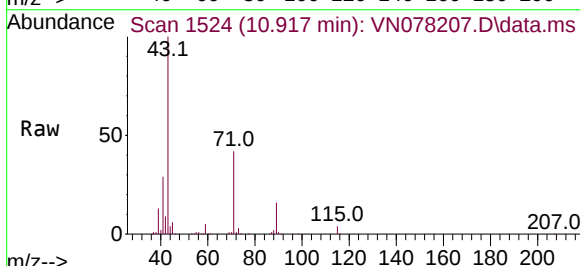
Acq: 14 Jun 2023 15:45

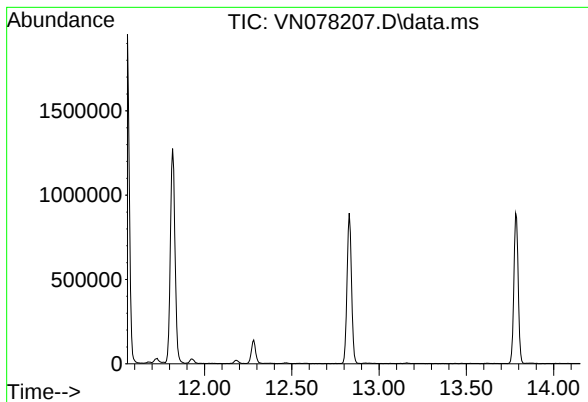
Tgt Ion: 43 Resp: 479625

Ion Ratio Lower Upper

43 100

58 0.3 31.7 95.1#



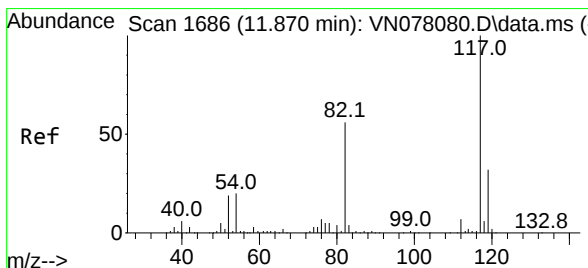
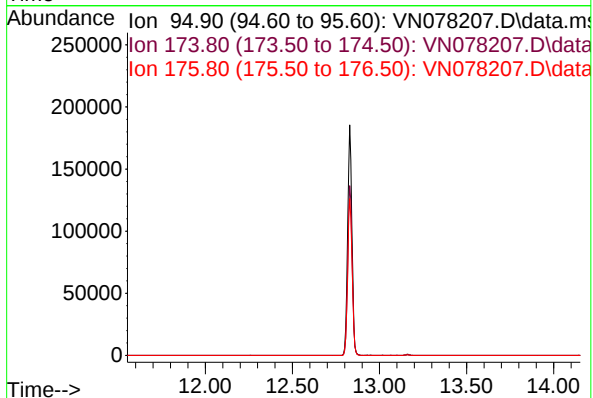


#62
 4-Bromofluorobenzene
 Concen: 0.000 ug/l
 Expected RT: 12.85 min
 Lab File: VN078207.D
 Acq: 14 Jun 2023 15:45

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-4-GA

Tgt Ion: 95

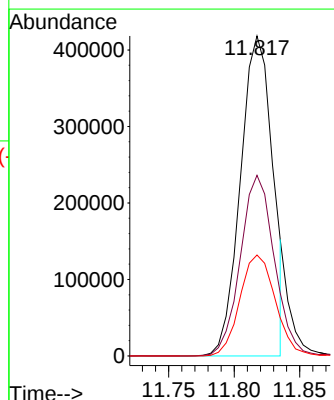
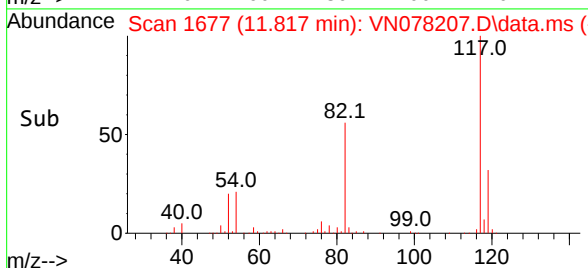
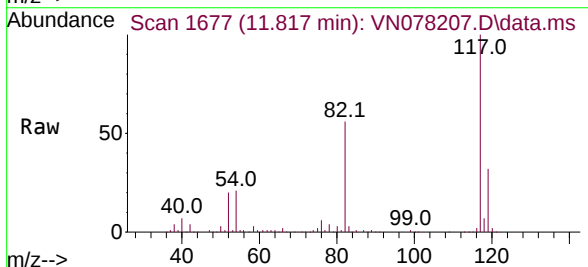
Sig	Exp Ratio
95	100
174	71.9
176	67.9

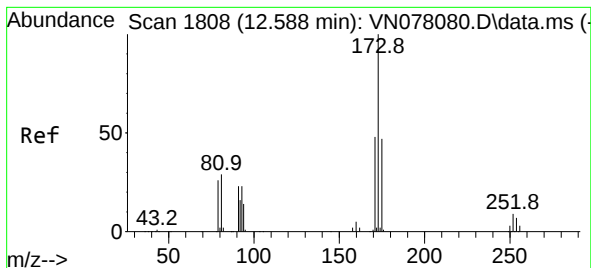


#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.817 min Scan# 1677
 Delta R.T. -0.053 min
 Lab File: VN078207.D
 Acq: 14 Jun 2023 15:45

Tgt Ion: 117 Resp: 716250

Ion	Ratio	Lower	Upper
117	100		
82	56.5	44.0	66.0
119	31.5	25.6	38.4





#71

Bromoform

Concen: 0.919 ug/l

RT: 12.829 min Scan# 11

Delta R.T. 0.241 min

Lab File: VN078207.D

Acq: 14 Jun 2023 15:45

Instrument :

MSVOA_N

ClientSampleId :

TP-4-GA

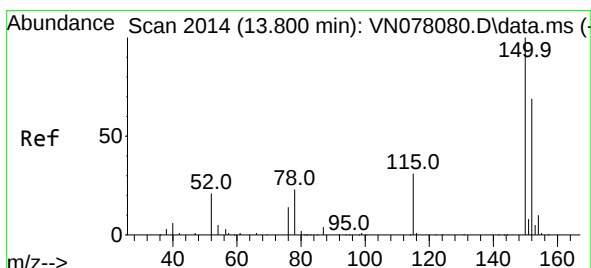
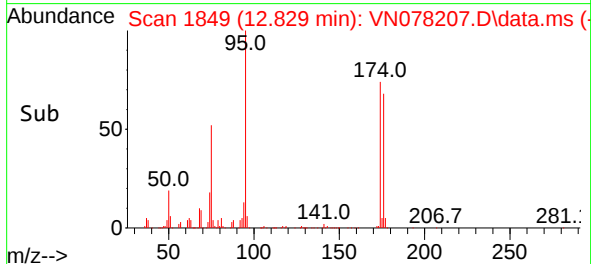
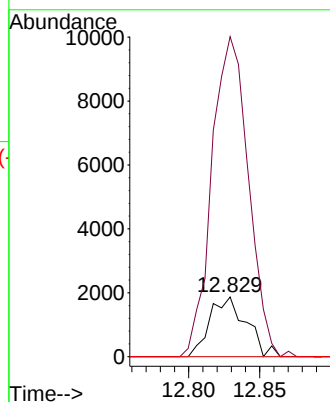
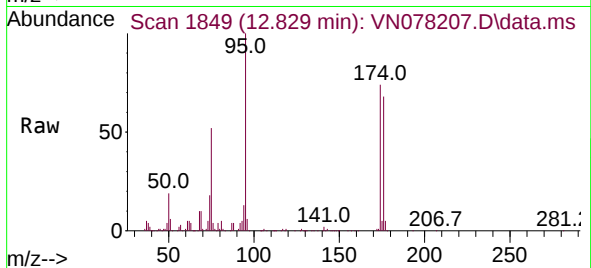
Tgt Ion:173 Resp: 3346

Ion Ratio Lower Upper

173 100

175 535.9 24.3 73.0#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.782 min Scan# 2011

Delta R.T. -0.018 min

Lab File: VN078207.D

Acq: 14 Jun 2023 15:45

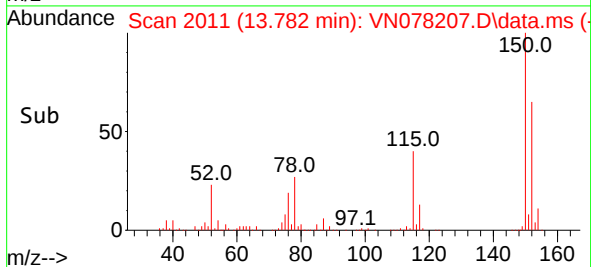
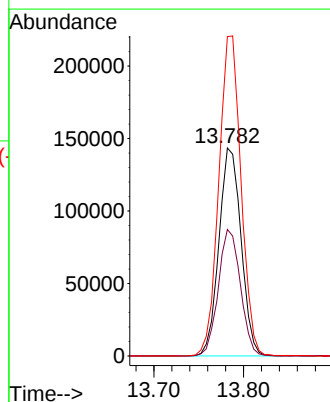
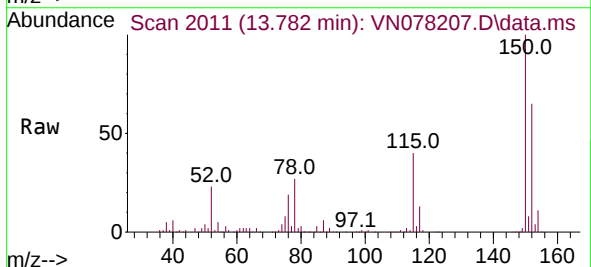
Tgt Ion:152 Resp: 245776

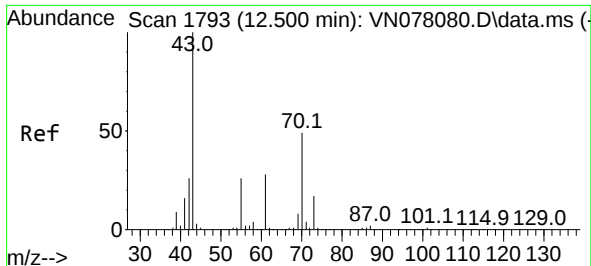
Ion Ratio Lower Upper

152 100

115 60.7 32.3 96.8

150 154.6 0.0 355.8

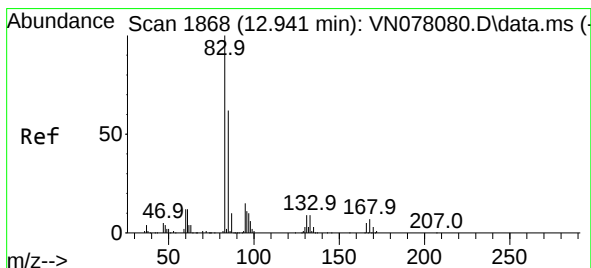
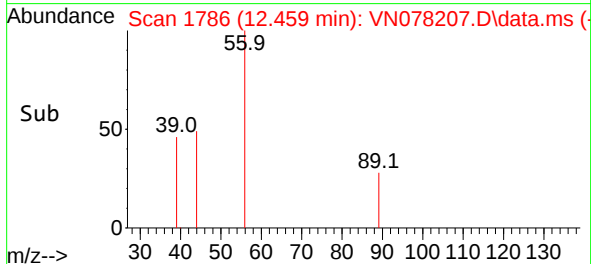
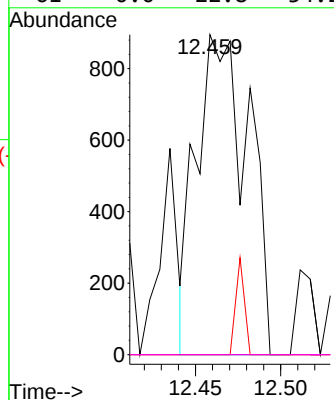
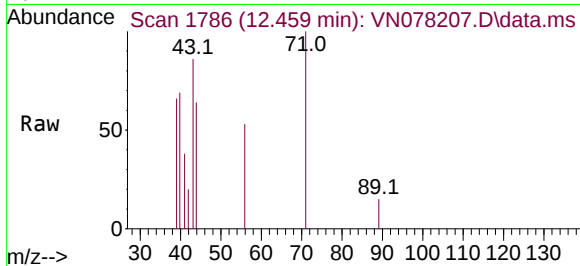




#74
N-amy1 acetate
Concen: 0.249 ug/l
RT: 12.459 min Scan# 1
Delta R.T. -0.041 min
Lab File: VN078207.D
Acq: 14 Jun 2023 15:45

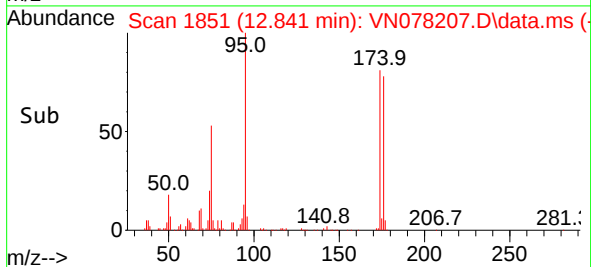
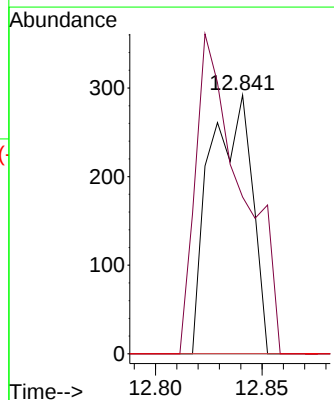
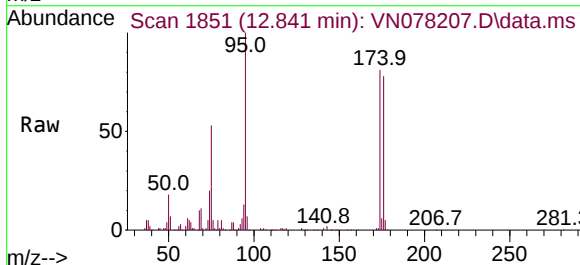
Instrument :
MSVOA_N
ClientSampleId :
TP-4-GA

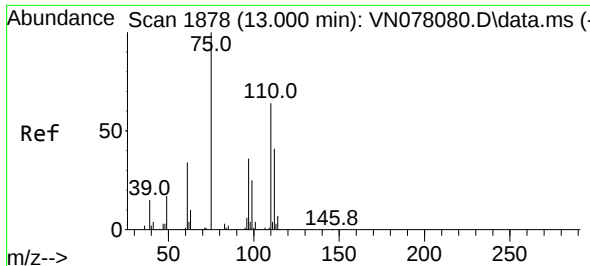
Tgt Ion:	43	Resp:	1902
Ion	Ratio	Lower	Upper
43	100		
70	0.0	43.4	65.2#
55	5.0	21.4	32.0#
61	0.0	22.8	34.2#



#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.841 min Scan# 1851
Delta R.T. -0.100 min
Lab File: VN078207.D
Acq: 14 Jun 2023 15:45

Tgt Ion:	83	Resp:	403
Ion	Ratio	Lower	Upper
83	100		
131	134.5	5.0	15.0#
85	0.0	31.9	95.7#

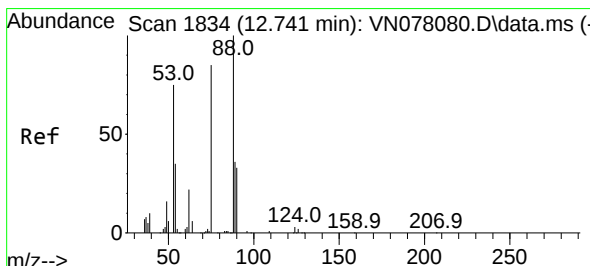
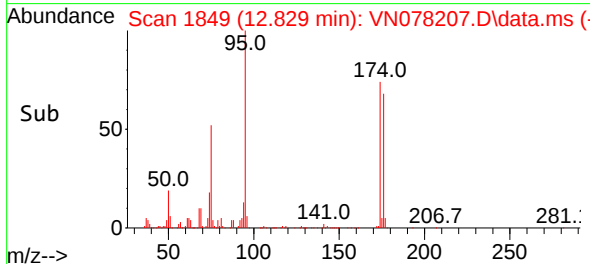
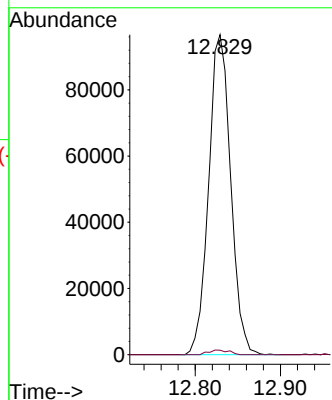
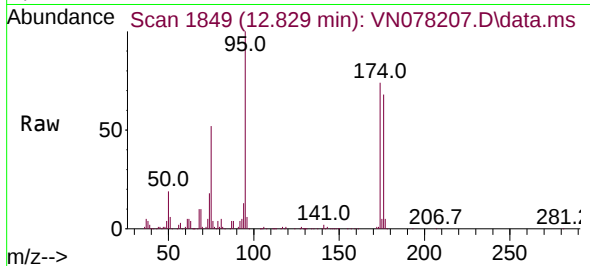




#76
1,2,3-Trichloropropane
Concen: 29.873 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.171 min
Lab File: VN078207.D
Acq: 14 Jun 2023 15:45

Instrument :
MSVOA_N
ClientSampleId :
TP-4-GA

Tgt Ion: 75 Resp: 173567
Ion Ratio Lower Upper
75 100
77 1.3 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 91.778 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.088 min
Lab File: VN078207.D
Acq: 14 Jun 2023 15:45

Tgt Ion: 75 Resp: 173567
Ion Ratio Lower Upper
75 100
53 0.1 67.4 101.2#
89 0.1 38.8 58.2#

