

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN053123\
 Data File : VN078000.D
 Acq On : 31 May 2023 18:07
 Operator : JC\MD
 Sample : 02973-13RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP-01-20230526

Quant Time: Jun 01 01:57:09 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051523W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 16 04:07:42 2023
 Response via : Initial Calibration

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

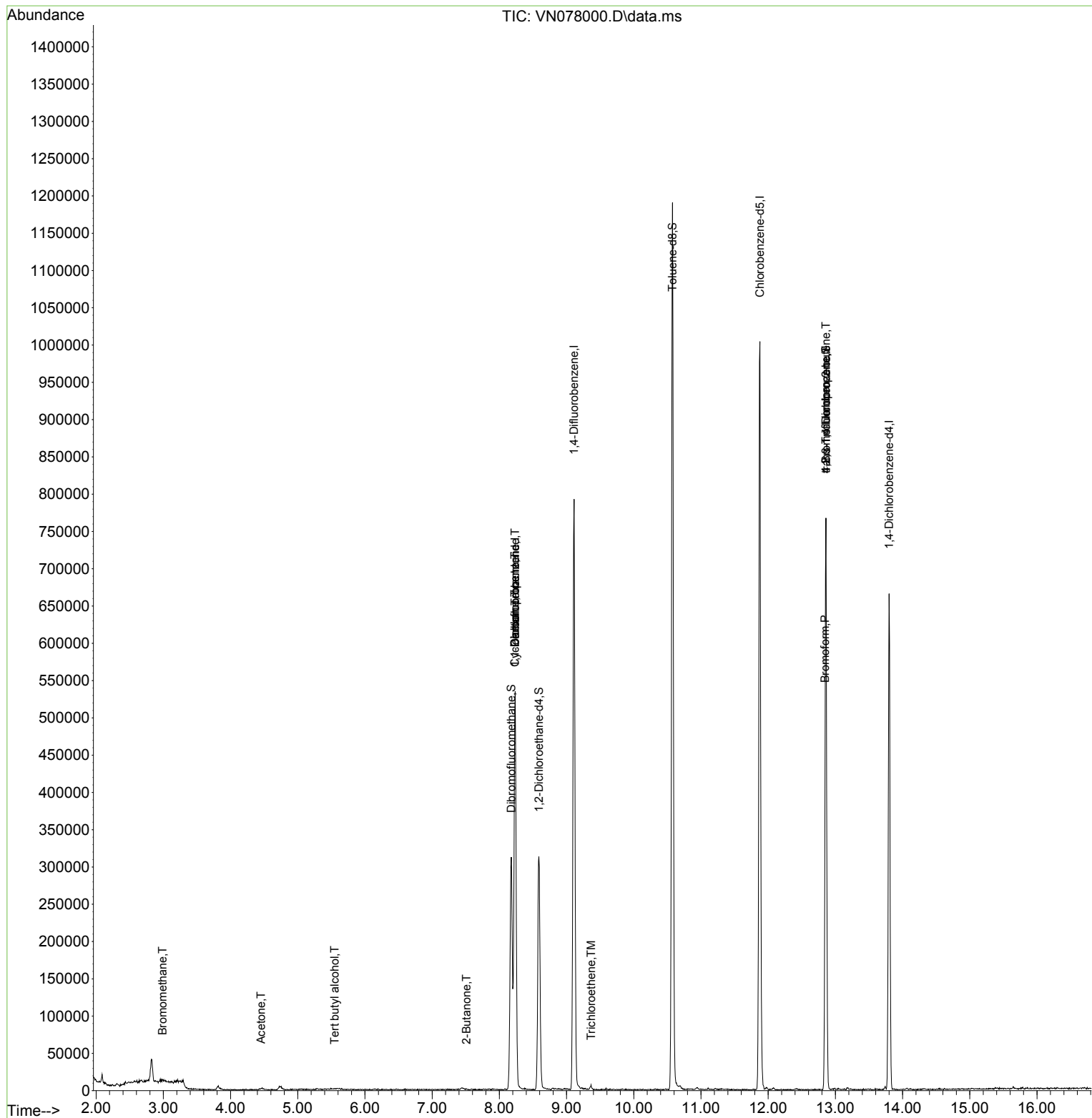
Internal Standards						
1) Pentafluorobenzene	8.235	168	381555	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	692185	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.876	117	604388	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	179179	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	266397	46.662	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	93.320%
35) Dibromofluoromethane	8.177	113	229715	50.893	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	101.780%
50) Toluene-d8	10.576	98	855066	49.217	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	98.440%
62) 4-Bromofluorobenzene	12.859	95	273759	44.616	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	89.240%
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	1514	Below Cal	#	42
5) Bromomethane	2.989	94	2590	0.640	ug/l #	63
11) Tert butyl alcohol	5.547	59	228	0.289	ug/l #	72
13) Acrolein	4.200	56	158	Below Cal	#	67
16) Acetone	4.453	43	2067	1.151	ug/l #	81
20) Methylene Chloride	5.283	84	565	Below Cal	#	69
25) 2-Butanone	7.512	43	797	0.284	ug/l #	37
31) Cyclohexane	8.229	56	9619	1.240	ug/l #	41
36) 1,1-Dichloropropene	8.229	75	32054	4.855	ug/l #	49
38) Carbon Tetrachloride	8.235	117	40986	6.148	ug/l #	16
44) Trichloroethene	9.365	130	1737	0.352	ug/l	76
71) Bromoform	12.847	173	773	0.256	ug/l #	28
76) 1,2,3-Trichloropropane	12.859	75	144650	32.236	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.859	75	144650	103.041	ug/l #	15

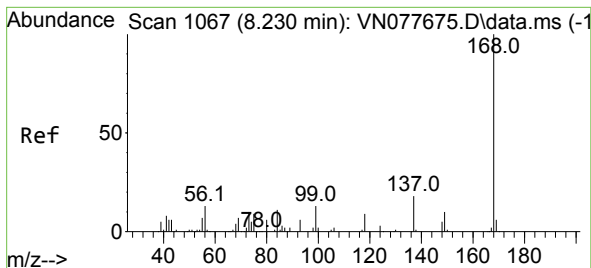
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.235 min Scan# 10

Delta R.T. 0.005 min

Lab File: VN078000.D

Acq: 31 May 2023 18:07

Instrument :

MSVOA_N

ClientSampleId :

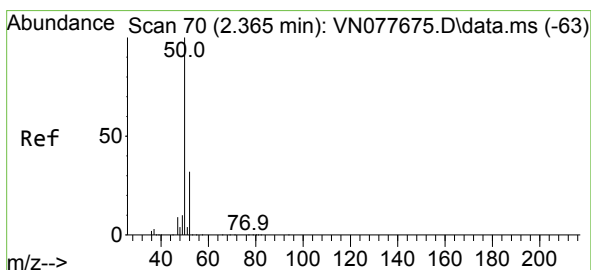
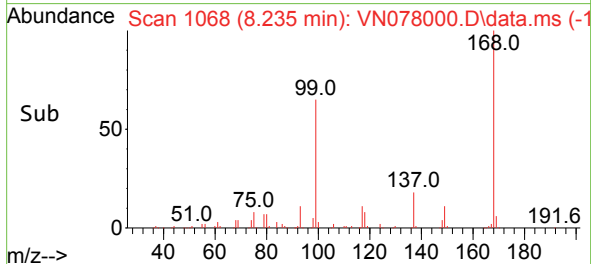
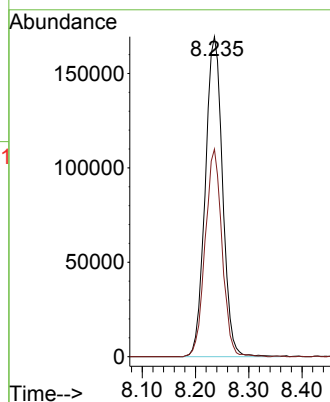
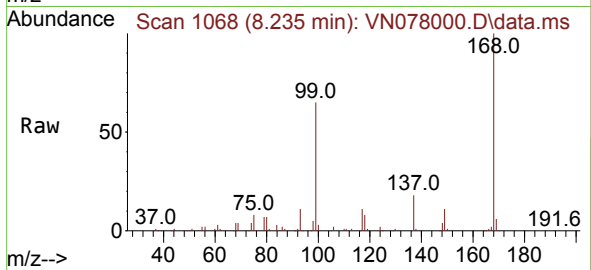
DUP-01-20230526

Tgt Ion:168 Resp: 381555

Ion Ratio Lower Upper

168 100

99 64.9 53.0 79.6



#3

Chloromethane

Concen: Below Cal

RT: 2.365 min Scan# 70

Delta R.T. 0.000 min

Lab File: VN078000.D

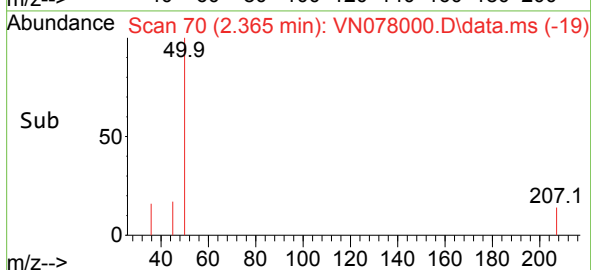
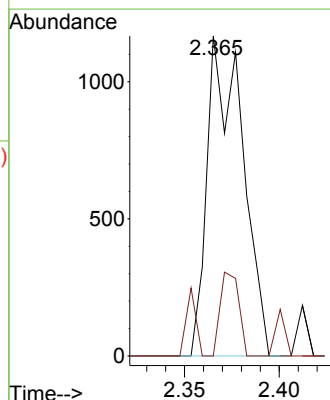
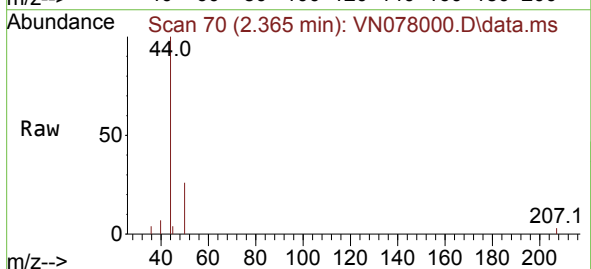
Acq: 31 May 2023 18:07

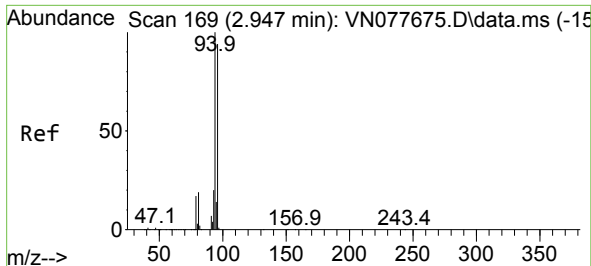
Tgt Ion: 50 Resp: 1514

Ion Ratio Lower Upper

50 100

52 0.0 26.5 39.7#

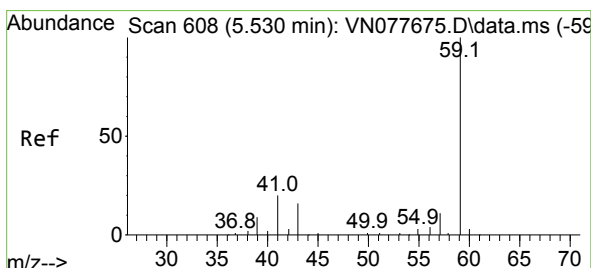
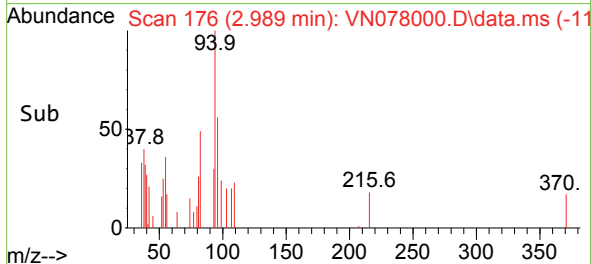
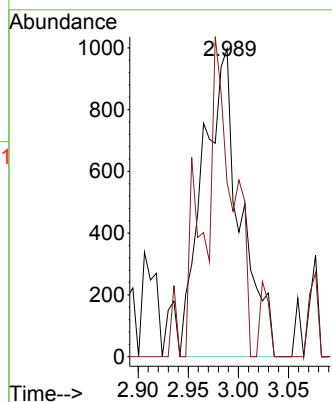
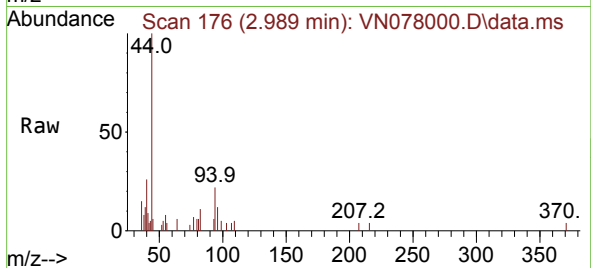




#5
Bromomethane
Concen: 0.640 ug/l
RT: 2.989 min Scan# 11
Delta R.T. 0.042 min
Lab File: VN078000.D
Acq: 31 May 2023 18:07

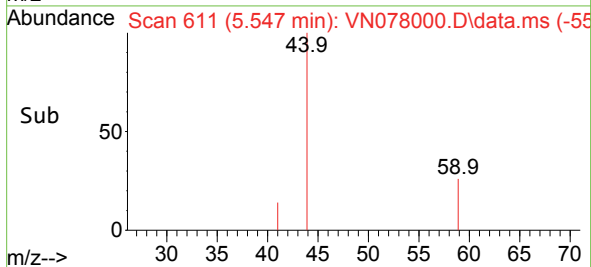
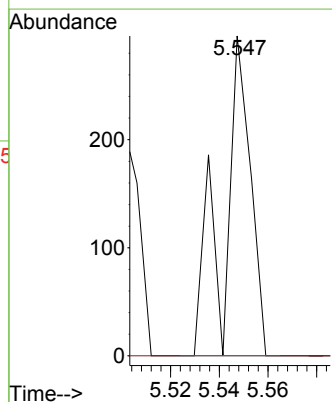
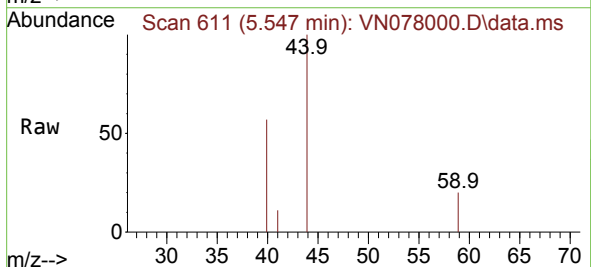
Instrument :
MSVOA_N
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DUP-01-20230526

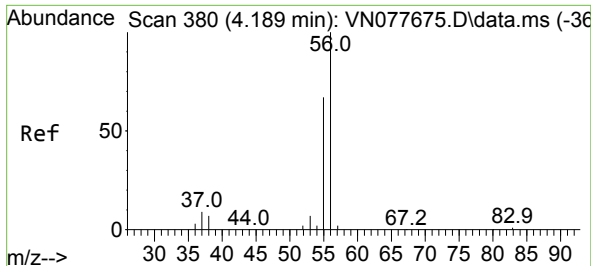
Tgt Ion: 94 Resp: 2590
Ion Ratio Lower Upper
94 100
96 56.5 73.1 109.7#



#11
Tert butyl alcohol
Concen: 0.289 ug/l
RT: 5.547 min Scan# 611
Delta R.T. 0.017 min
Lab File: VN078000.D
Acq: 31 May 2023 18:07

Tgt Ion: 59 Resp: 228
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

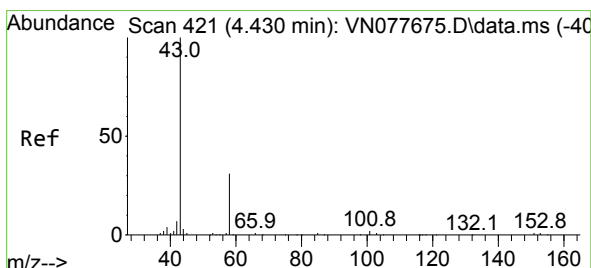
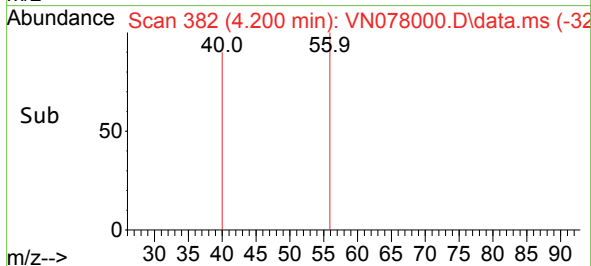
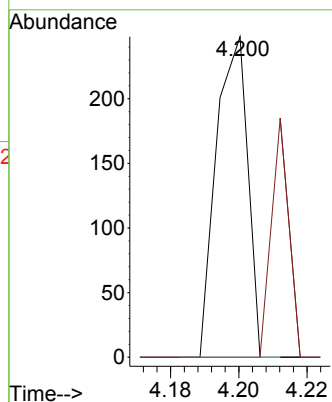
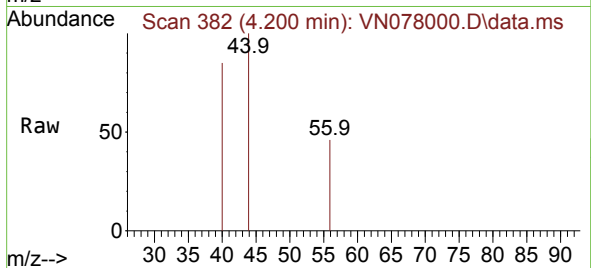




#13
Acrolein
Concen: Below Cal
RT: 4.200 min Scan# 382
Delta R.T. 0.011 min
Lab File: VN078000.D
Acq: 31 May 2023 18:07

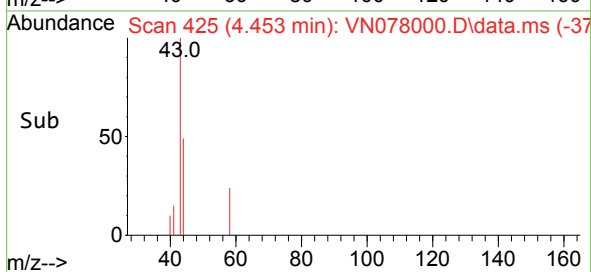
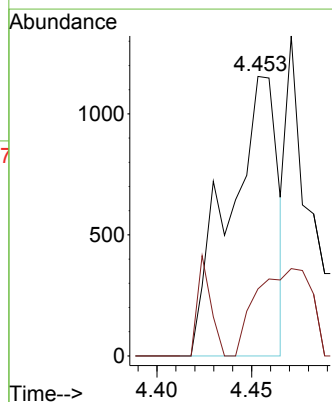
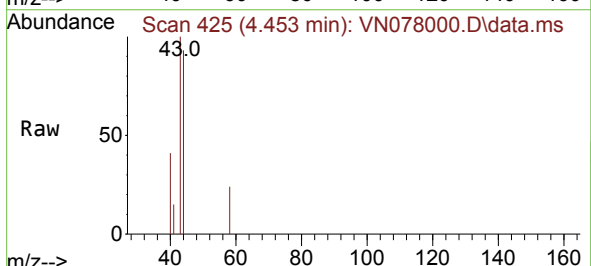
Instrument :
MSVOA_N
ClientSampleId :
DUP-01-20230526

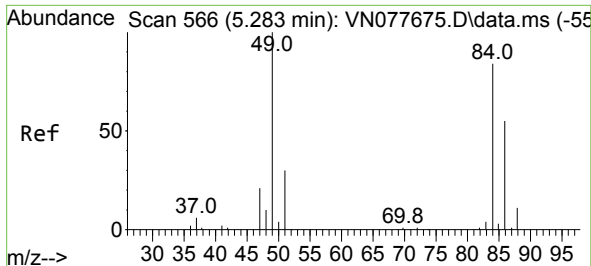
Tgt Ion: 56 Resp: 158
Ion Ratio Lower Upper
56 100
55 41.1 54.5 81.7#



#16
Acetone
Concen: 1.151 ug/l
RT: 4.453 min Scan# 425
Delta R.T. 0.023 min
Lab File: VN078000.D
Acq: 31 May 2023 18:07

Tgt Ion: 43 Resp: 2067
Ion Ratio Lower Upper
43 100
58 24.0 28.0 42.0#

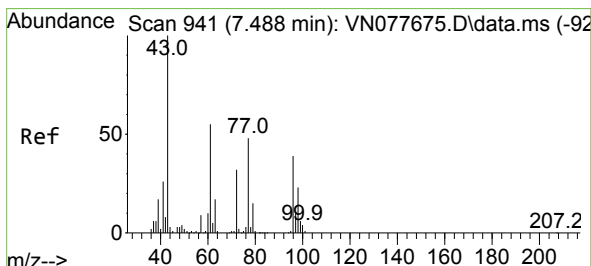
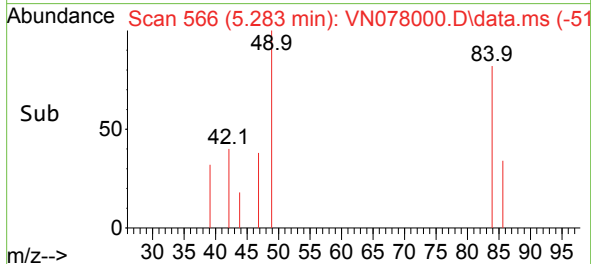
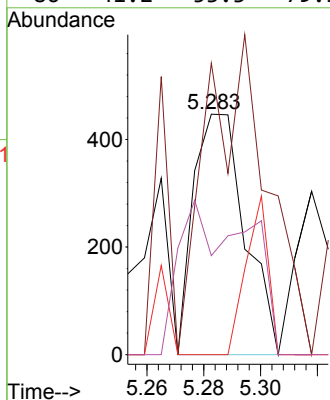
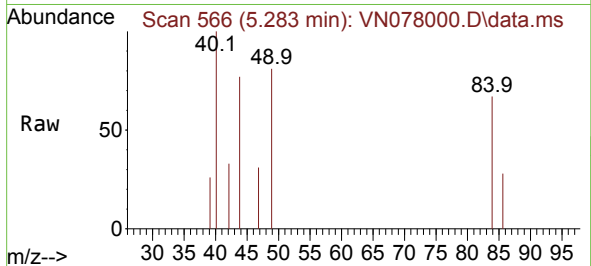




#20
Methylene Chloride
Concen: Below Cal
RT: 5.283 min Scan# 511
Delta R.T. -0.000 min
Lab File: VN078000.D
Acq: 31 May 2023 18:07

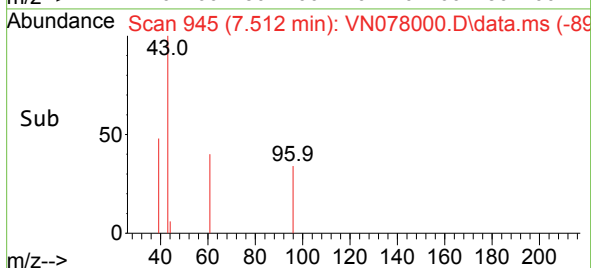
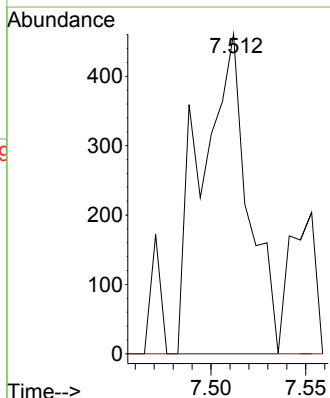
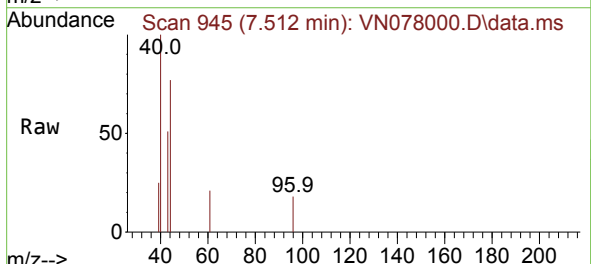
Instrument :
MSVOA_N
ClientSampleId :
DUP-01-20230526

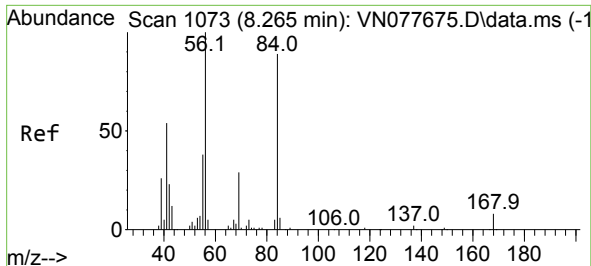
Tgt Ion:	84	Resp:	565
Ion	Ratio	Lower	Upper
84	100		
49	121.3	79.7	119.5#
51	0.0	25.2	37.8#
86	41.2	53.3	79.9#



#25
2-Butanone
Concen: 0.284 ug/l
RT: 7.512 min Scan# 945
Delta R.T. 0.024 min
Lab File: VN078000.D
Acq: 31 May 2023 18:07

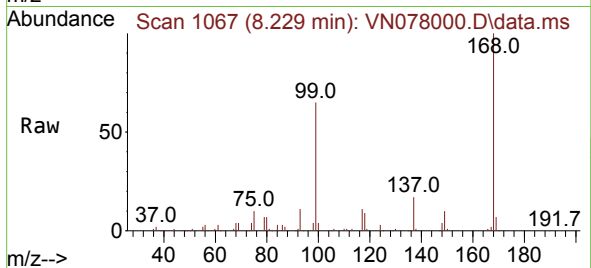
Tgt Ion:	43	Resp:	797
Ion	Ratio	Lower	Upper
43	100		
72	0.0	30.2	45.2#



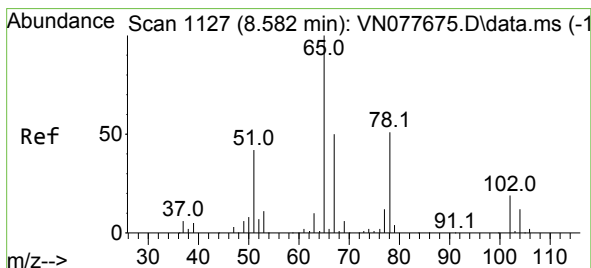
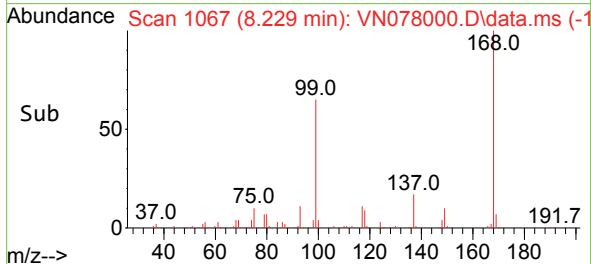
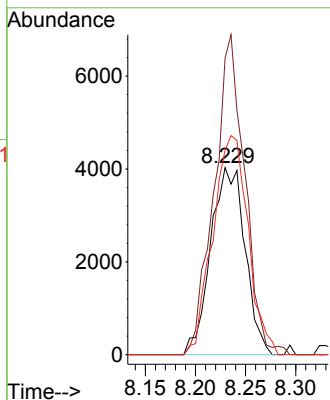


#31
Cyclohexane
Concen: 1.240 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.036 min
Lab File: VN078000.D
Acq: 31 May 2023 18:07

Instrument :
MSVOA_N
ClientSampleId :
DUP-01-20230526

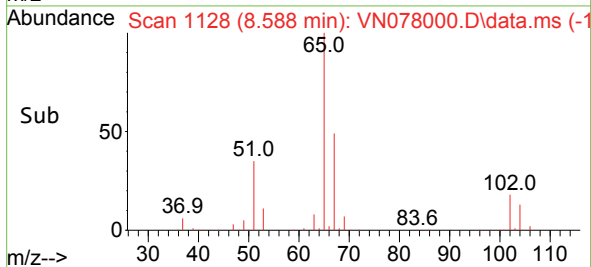
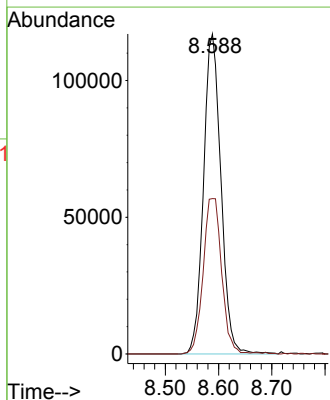
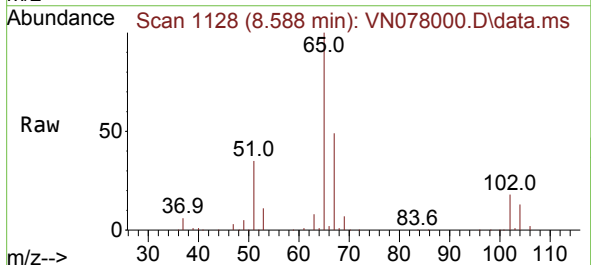


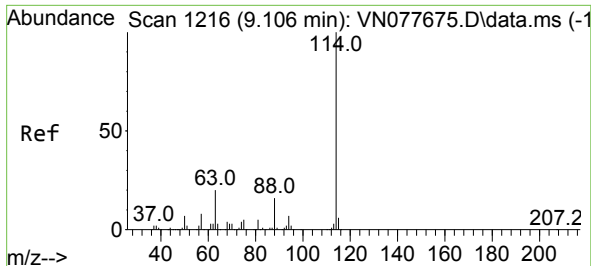
Tgt Ion: 56 Resp: 9619
Ion Ratio Lower Upper
56 100
69 158.5 26.8 40.2#
84 109.3 81.8 122.6



#33
1,2-Dichloroethane-d4
Concen: 46.662 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.006 min
Lab File: VN078000.D
Acq: 31 May 2023 18:07

Tgt Ion: 65 Resp: 266397
Ion Ratio Lower Upper
65 100
67 51.6 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: VN078000.D

Acq: 31 May 2023 18:07

Instrument :

MSVOA_N

ClientSampleId :

DUP-01-20230526

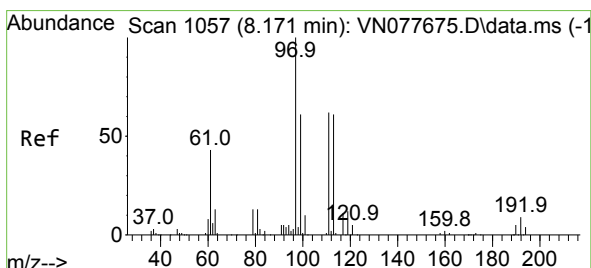
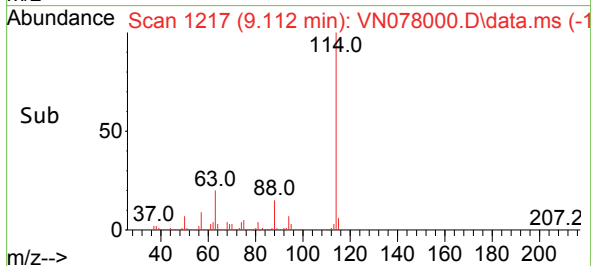
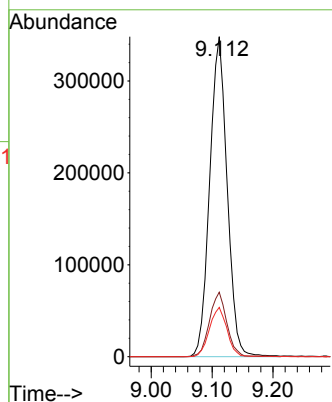
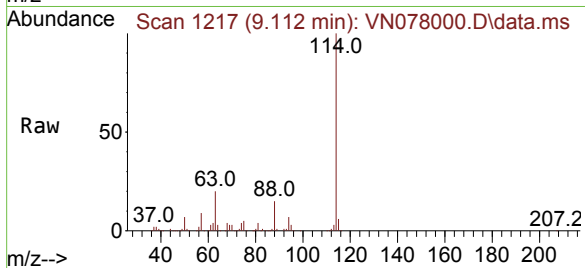
Tgt Ion:114 Resp: 692185

Ion Ratio Lower Upper

114 100

63 20.1 0.0 36.4

88 15.4 0.0 30.6



#35

Dibromofluoromethane

Concen: 50.893 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VN078000.D

Acq: 31 May 2023 18:07

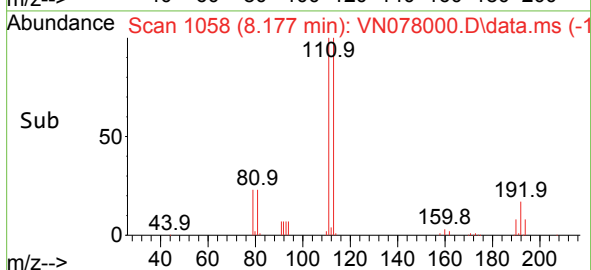
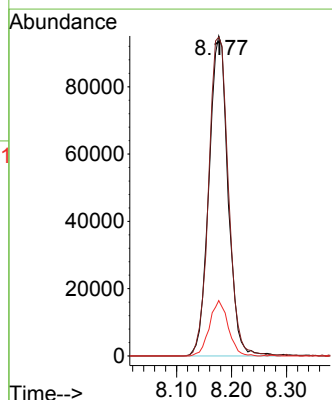
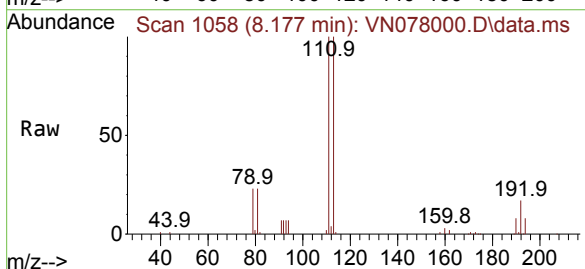
Tgt Ion:113 Resp: 229715

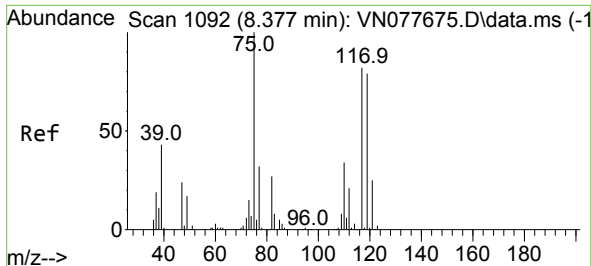
Ion Ratio Lower Upper

113 100

111 102.7 82.6 123.8

192 17.0 12.7 19.1

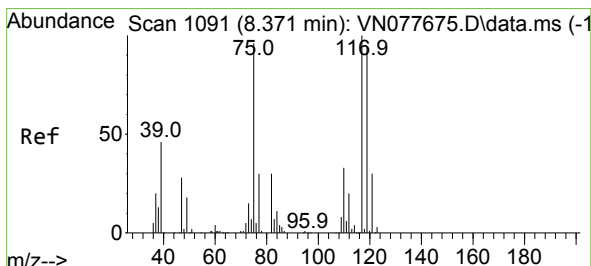
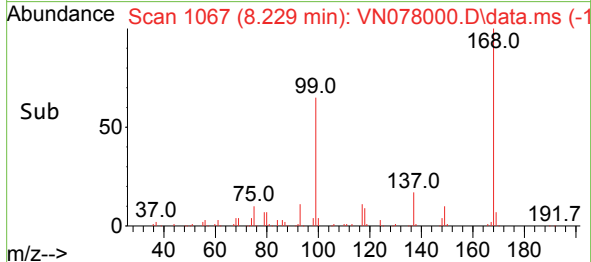
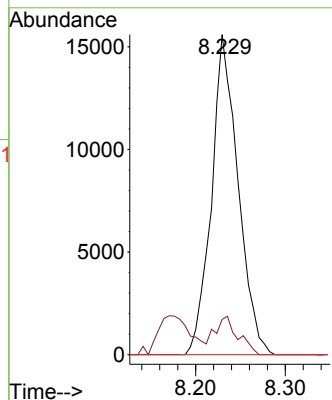
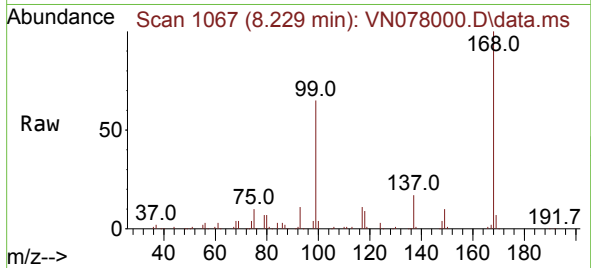




#36
 1,1-Dichloropropene
 Concen: 4.855 ug/l
 RT: 8.229 min Scan# 1067
 Delta R.T. -0.148 min
 Lab File: VN078000.D
 Acq: 31 May 2023 18:07

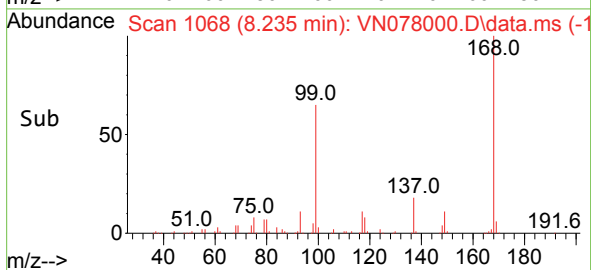
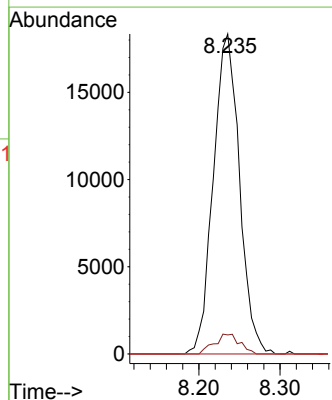
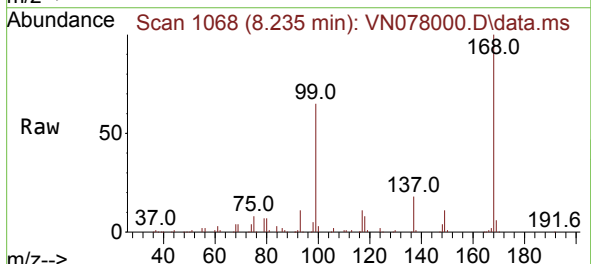
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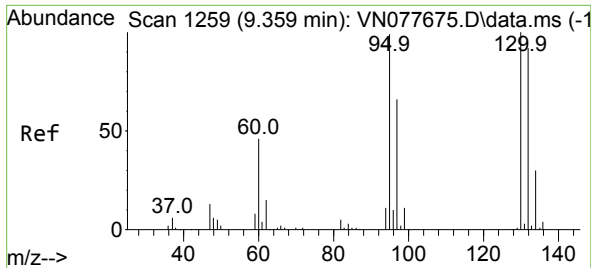
Tgt Ion: 75 Resp: 32054
 Ion Ratio Lower Upper
 75 100
 110 10.4 19.1 57.3#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 6.148 ug/l
 RT: 8.235 min Scan# 1068
 Delta R.T. -0.136 min
 Lab File: VN078000.D
 Acq: 31 May 2023 18:07

Tgt Ion: 117 Resp: 40986
 Ion Ratio Lower Upper
 117 100
 119 6.0 77.3 115.9#
 121 0.0 23.3 34.9#

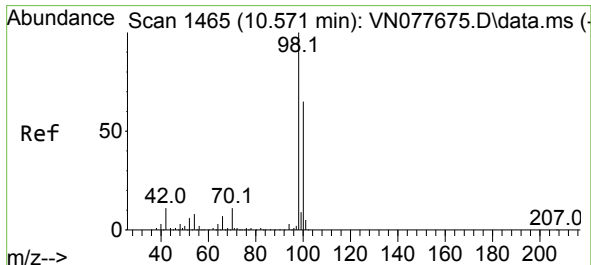
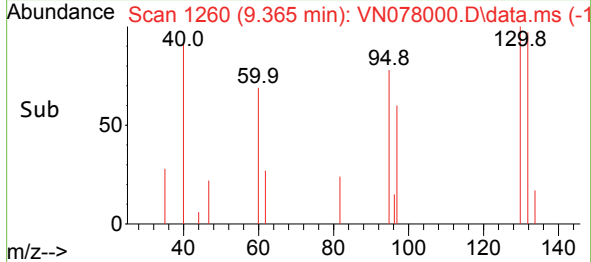
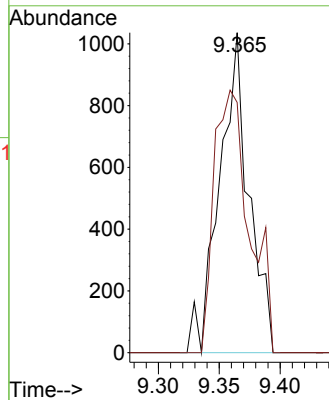
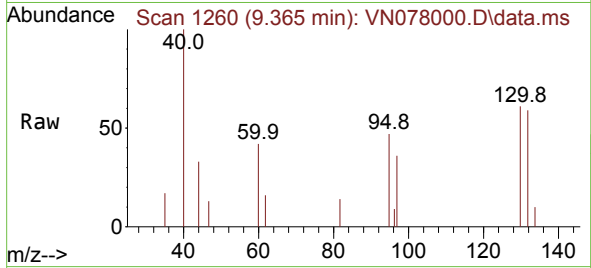




#44
 Trichloroethene
 Concen: 0.352 ug/l
 RT: 9.365 min Scan# 11
 Delta R.T. 0.006 min
 Lab File: VN078000.D
 Acq: 31 May 2023 18:07

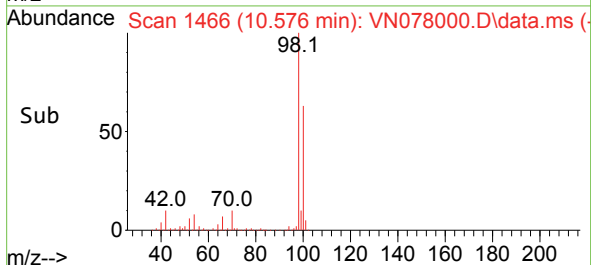
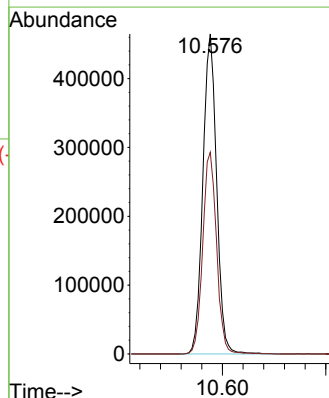
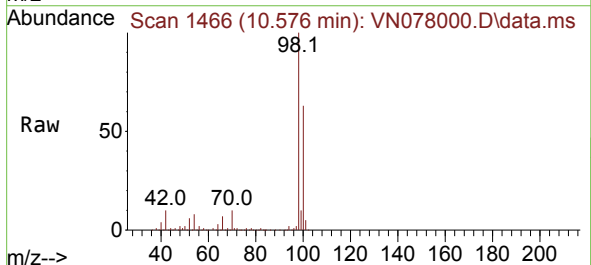
Instrument :
 MSVOA_N
 ClientSampleId :
 DUP-01-20230526

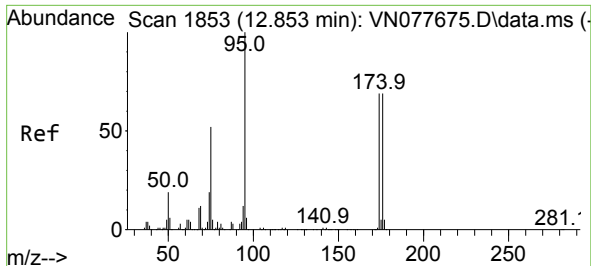
Tgt Ion:130 Resp: 1737
 Ion Ratio Lower Upper
 130 100
 95 78.2 0.0 204.6



#50
 Toluene-d8
 Concen: 49.217 ug/l
 RT: 10.576 min Scan# 1466
 Delta R.T. 0.005 min
 Lab File: VN078000.D
 Acq: 31 May 2023 18:07

Tgt Ion: 98 Resp: 855066
 Ion Ratio Lower Upper
 98 100
 100 63.6 52.0 78.0

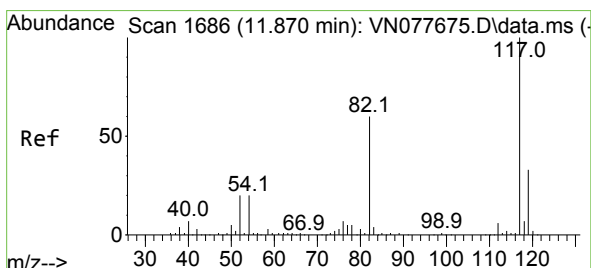
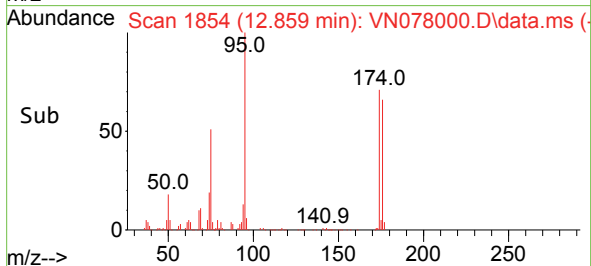
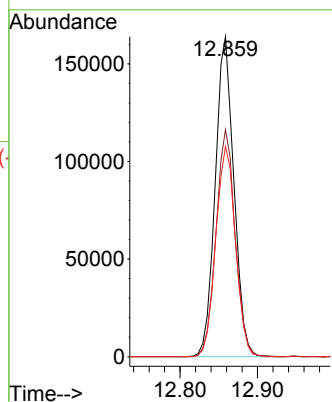
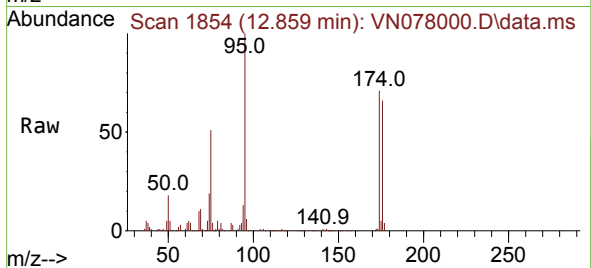




#62
4-Bromofluorobenzene
Concen: 44.616 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.006 min
Lab File: VN078000.D
Acq: 31 May 2023 18:07

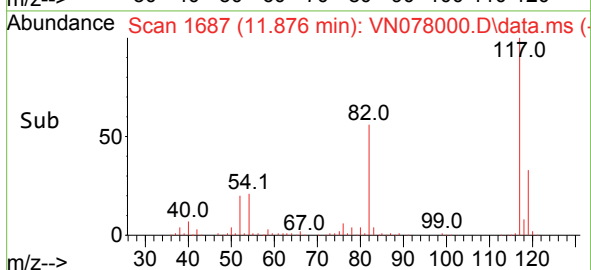
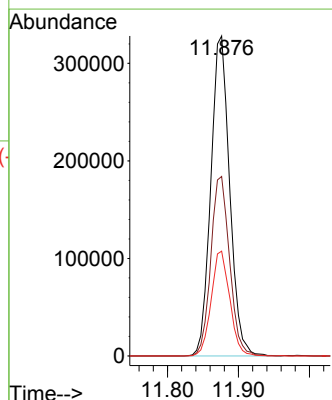
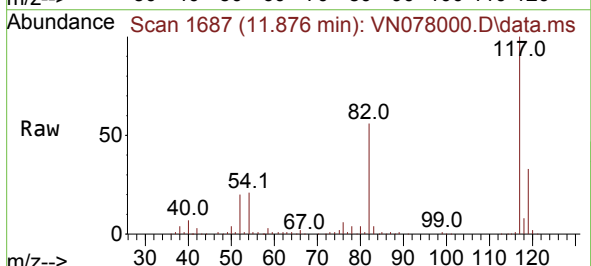
Instrument :
MSVOA_N
ClientSampleId :
DUP-01-20230526

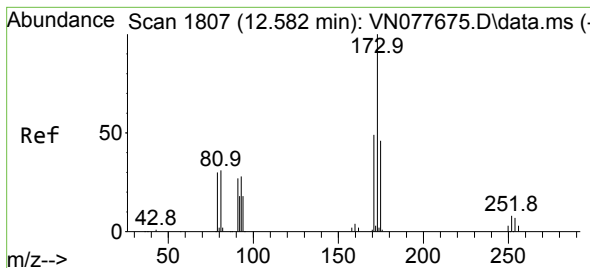
Tgt Ion: 95 Resp: 273759
Ion Ratio Lower Upper
95 100
174 73.0 0.0 143.8
176 69.2 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.876 min Scan# 1687
Delta R.T. 0.006 min
Lab File: VN078000.D
Acq: 31 May 2023 18:07

Tgt Ion: 117 Resp: 604388
Ion Ratio Lower Upper
117 100
82 56.1 44.0 66.0
119 32.7 25.6 38.4





#71

Bromoform

Concen: 0.256 ug/l

RT: 12.847 min Scan# 1807

Delta R.T. 0.265 min

Lab File: VN078000.D

Acq: 31 May 2023 18:07

Instrument :

MSVOA_N

ClientSampleId :

DUP-01-20230526

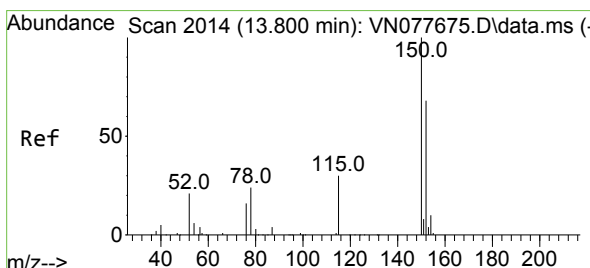
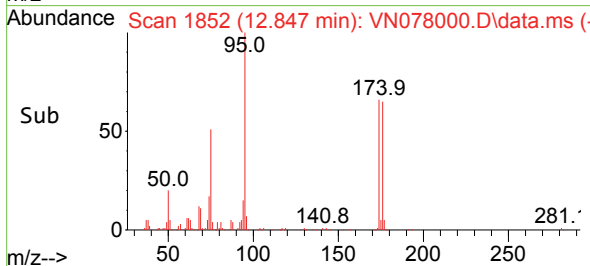
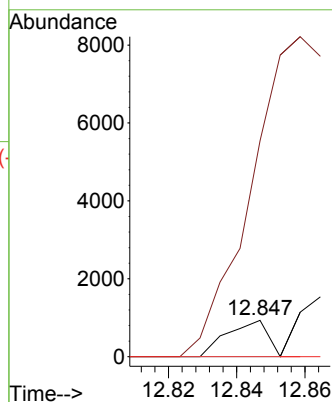
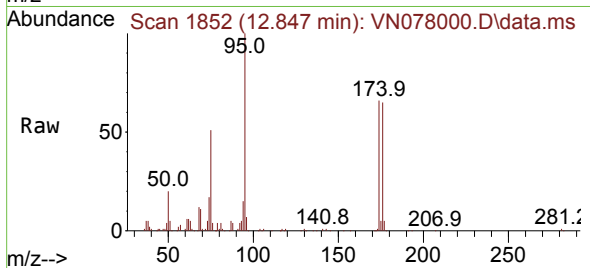
Tgt Ion:173 Resp: 773

Ion Ratio Lower Upper

173 100

175 0.0 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: VN078000.D

Acq: 31 May 2023 18:07

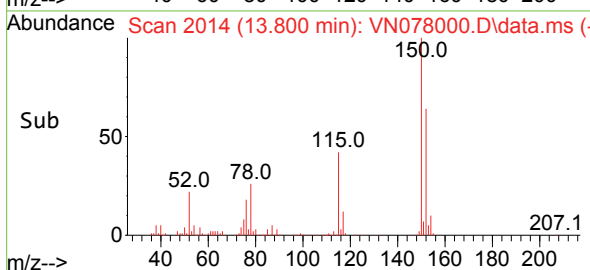
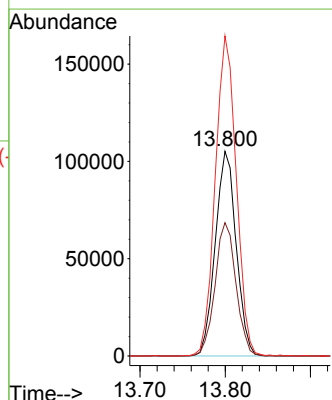
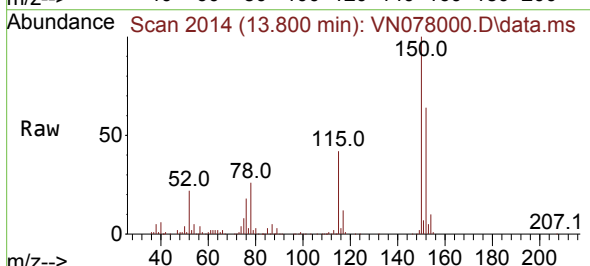
Tgt Ion:152 Resp: 179179

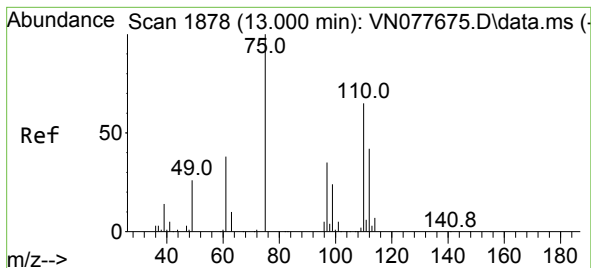
Ion Ratio Lower Upper

152 100

115 65.2 32.3 96.8

150 156.9 0.0 355.8





#76

1,2,3-Trichloropropane

Concen: 32.236 ug/l

RT: 12.859 min Scan# 1854

Delta R.T. -0.141 min

Lab File: VN078000.D

Acq: 31 May 2023 18:07

Instrument :

MSVOA_N

ClientSampleId :

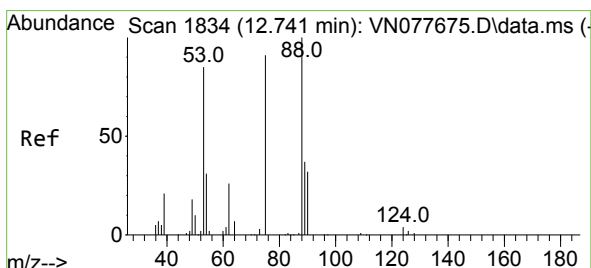
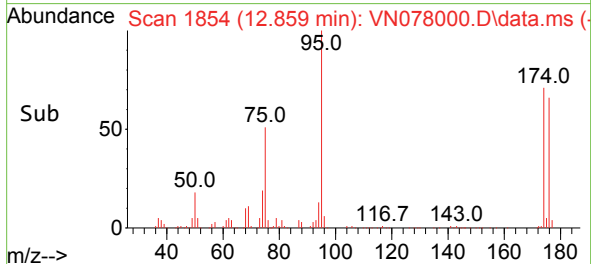
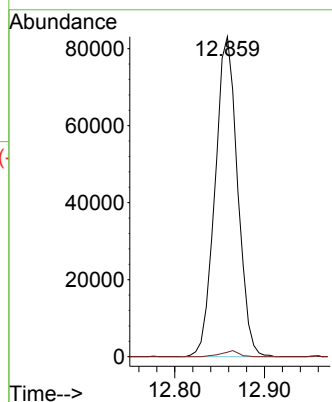
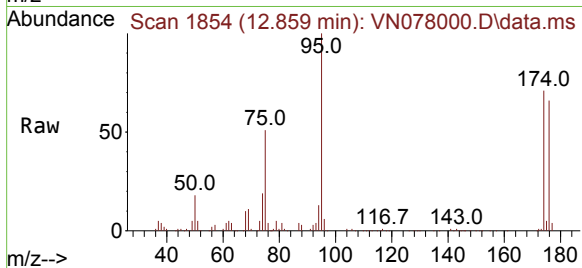
DUP-01-20230526

Tgt Ion: 75 Resp: 144650

Ion Ratio Lower Upper

75 100

77 1.5 84.5 253.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 103.041 ug/l

RT: 12.859 min Scan# 1854

Delta R.T. 0.118 min

Lab File: VN078000.D

Acq: 31 May 2023 18:07

Tgt Ion: 75 Resp: 144650

Ion Ratio Lower Upper

75 100

53 0.1 67.4 101.2#

89 0.0 38.8 58.2#

