

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061523\
 Data File : VN078230.D
 Acq On : 15 Jun 2023 15:56
 Operator : JC\MD
 Sample : 03259-02DL 4X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 16 06:08:28 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)

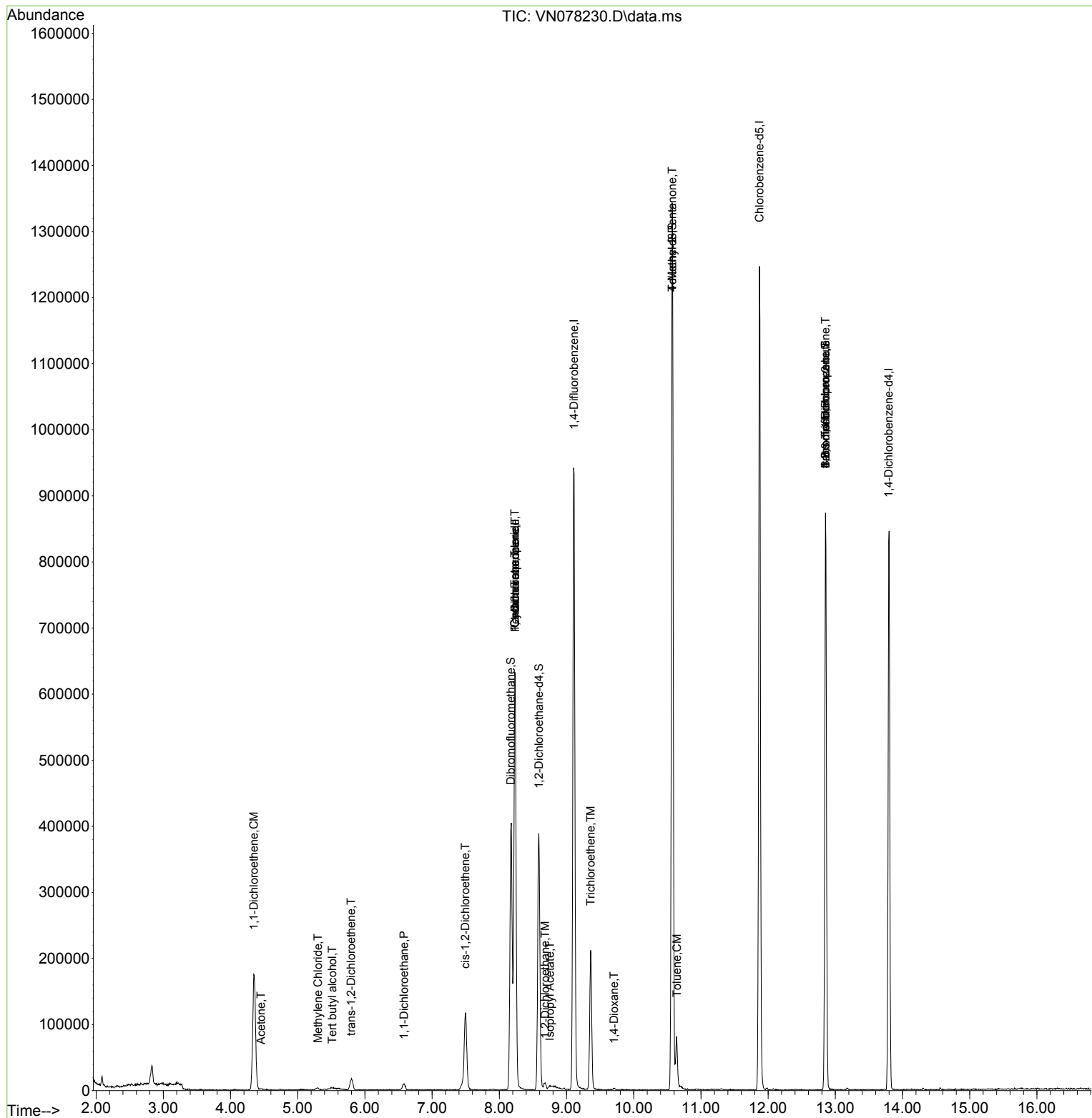
Internal Standards						
1) Pentafluorobenzene	8.236	168	457649	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	840121	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	739152	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	224455	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	325793	53.392	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 106.780%	
35) Dibromofluoromethane	8.171	113	287642	54.150	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 108.300%	
50) Toluene-d8	10.571	98	974635	47.594	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 95.180%	
62) 4-Bromofluorobenzene	12.853	95	301550	47.368	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 94.740%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.377	50	1001	Below Cal	#	66
11) Tert butyl alcohol	5.512	59	875	1.039	ug/l #	72
12) 1,1-Dichloroethene	4.348	96	107173	21.445	ug/l	95
16) Acetone	4.453	43	2237	1.274	ug/l #	40
20) Methylene Chloride	5.300	84	2414	0.416	ug/l #	75
21) trans-1,2-Dichloroethene	5.795	96	10614	1.969	ug/l #	79
24) 1,1-Dichloroethane	6.583	63	13488	1.425	ug/l #	92
27) cis-1,2-Dichloroethene	7.494	96	72476	11.272	ug/l	97
31) Cyclohexane	8.230	56	11840	1.513	ug/l #	40
36) 1,1-Dichloropropene	8.236	75	39869	5.233	ug/l #	47
38) Carbon Tetrachloride	8.230	117	48346	6.009	ug/l #	16
42) 1,2-Dichloroethane	8.683	62	8699	1.115	ug/l	93
43) Isopropyl Acetate	8.753	43	4656	0.409	ug/l #	49
44) Trichloroethene	9.359	130	74770	12.447	ug/l	98
49) 1,4-Dioxane	9.706	88	1855	18.475	ug/l #	73
51) 4-Methyl-2-Pentanone	10.571	43	4417	0.737	ug/l #	1
52) Toluene	10.641	92	30820	2.146	ug/l	98
71) Bromoform	12.853	173	3365	0.896	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.935	83	57	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.853	75	165899	31.265	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	165899	96.056	ug/l #	15

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

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QLast Update : Wed Jun 07 05:05:00 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.236 min Scan# 1

Delta R.T. 0.001 min

Lab File: VN078230.D

Acq: 15 Jun 2023 15:56

Instrument :

MSVOA_N

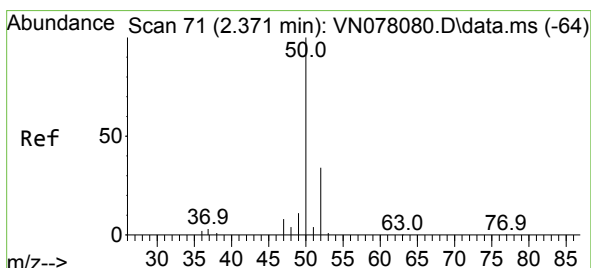
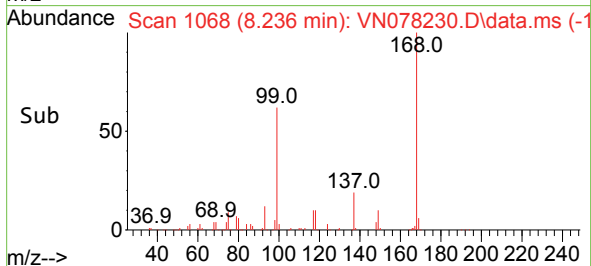
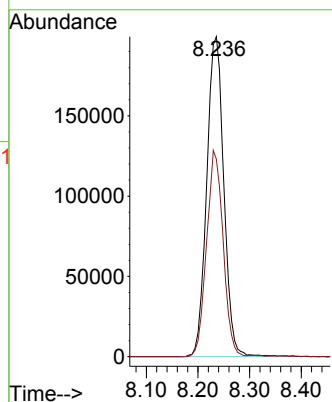
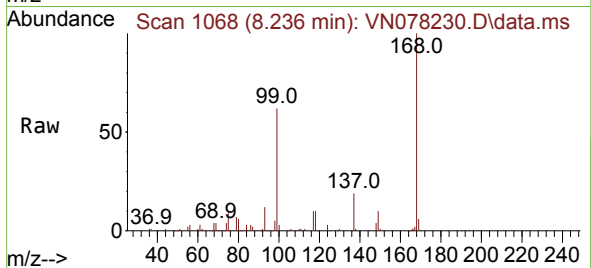
ClientSampleId :

Tgt Ion:168 Resp: 457649

Ion Ratio Lower Upper

168 100

99 61.7 53.0 79.6



#3

Chloromethane

Concen: Below Cal

RT: 2.377 min Scan# 72

Delta R.T. 0.006 min

Lab File: VN078230.D

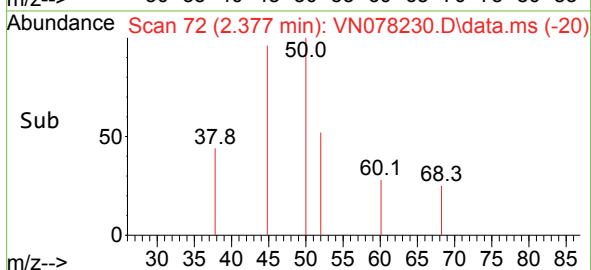
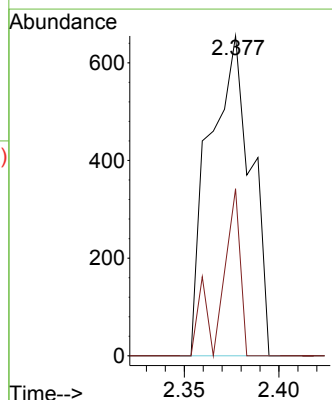
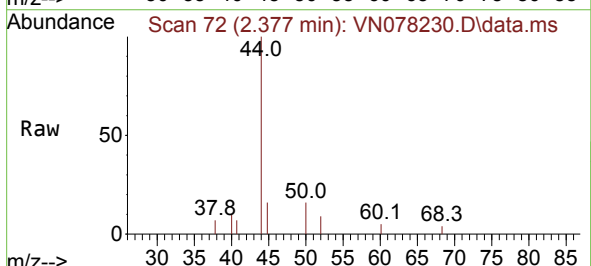
Acq: 15 Jun 2023 15:56

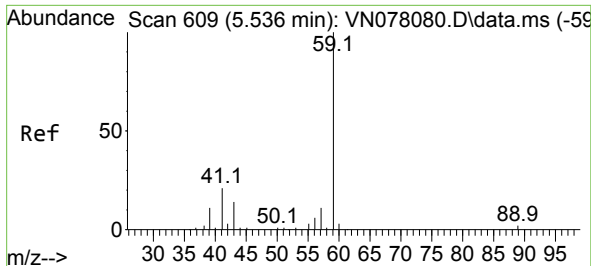
Tgt Ion: 50 Resp: 1001

Ion Ratio Lower Upper

50 100

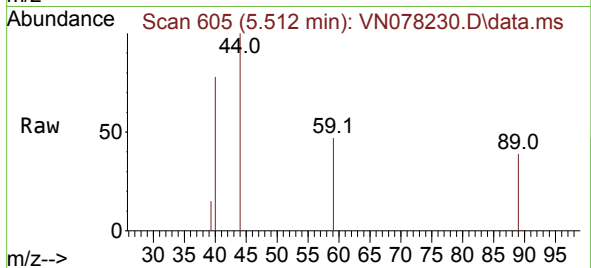
52 52.2 26.5 39.7#



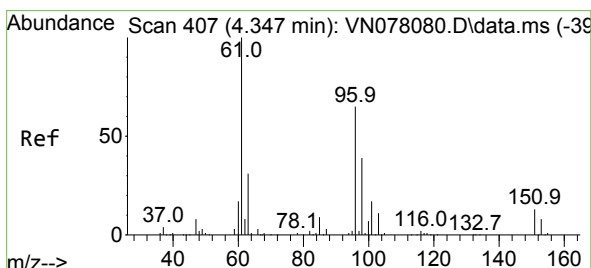
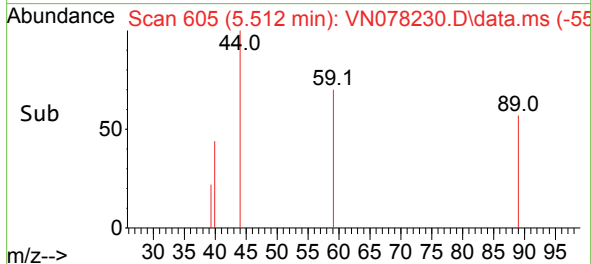
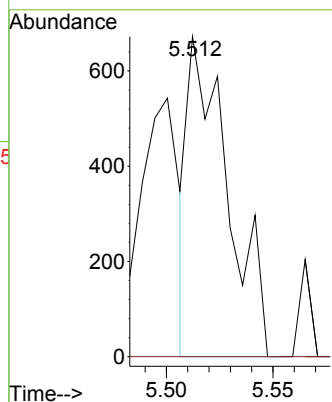


#11
Tert butyl alcohol
Concen: 1.039 ug/l
RT: 5.512 min Scan# 609
Delta R.T. -0.023 min
Lab File: VN078230.D
Acq: 15 Jun 2023 15:56

Instrument :
MSVOA_N
ClientSampleId :

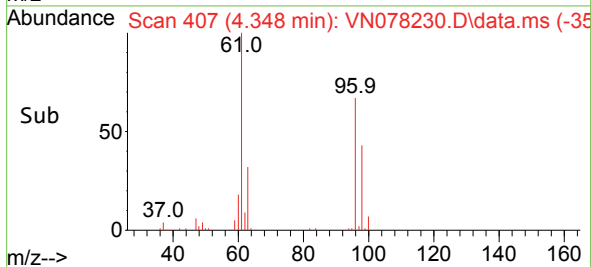
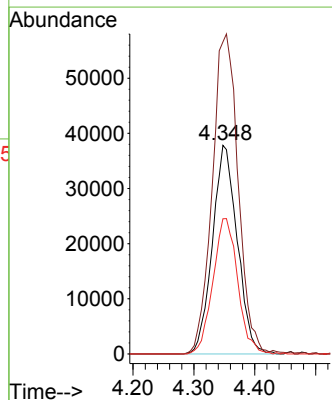
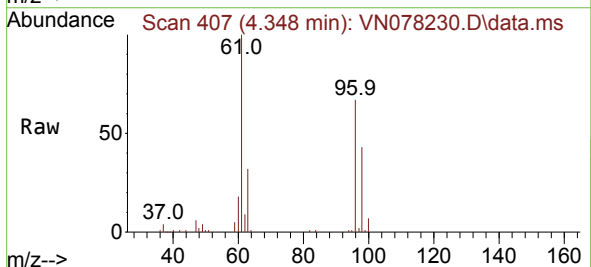


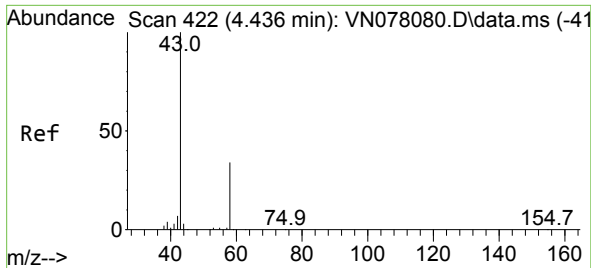
Tgt Ion: 59 Resp: 875
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#12
1,1-Dichloroethene
Concen: 21.445 ug/l
RT: 4.348 min Scan# 407
Delta R.T. 0.000 min
Lab File: VN078230.D
Acq: 15 Jun 2023 15:56

Tgt Ion: 96 Resp: 107173
Ion Ratio Lower Upper
96 100
61 149.5 112.7 169.1
98 64.8 51.2 76.8

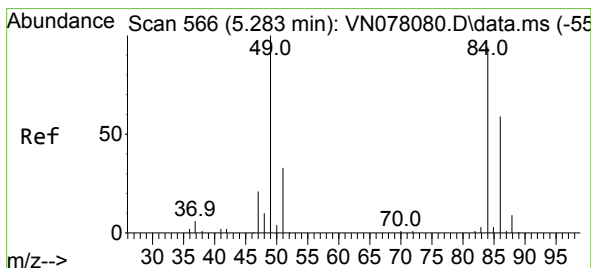
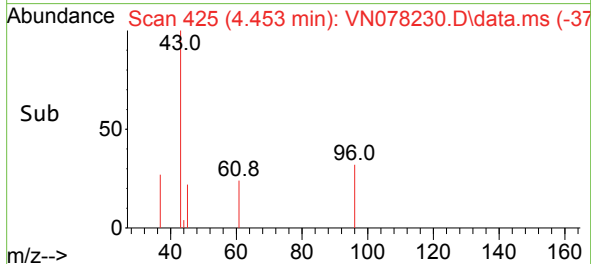
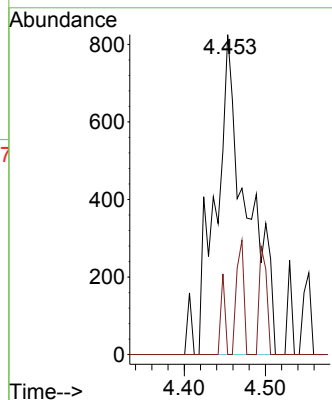
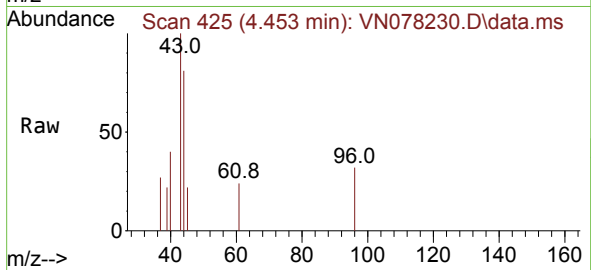




#16
Acetone
Concen: 1.274 ug/l
RT: 4.453 min Scan# 41
Delta R.T. 0.018 min
Lab File: VN078230.D
Acq: 15 Jun 2023 15:56

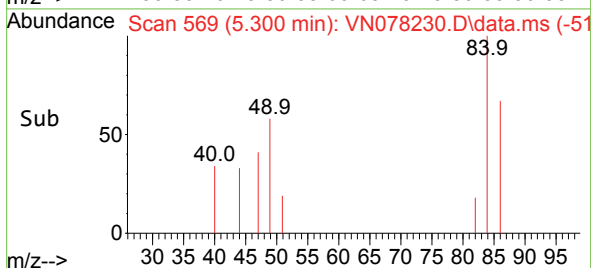
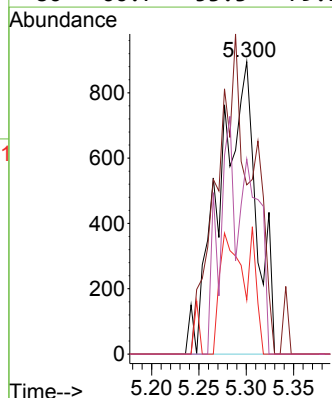
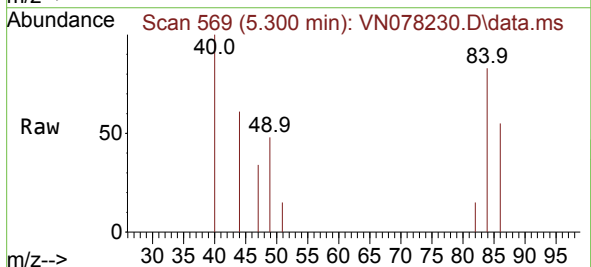
Instrument :
MSVOA_N
ClientSampleId :

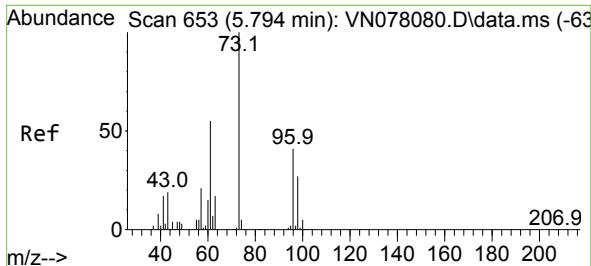
Tgt Ion: 43 Resp: 2237
Ion Ratio Lower Upper
43 100
58 0.0 28.0 42.0#



#20
Methylene Chloride
Concen: 0.416 ug/l
RT: 5.300 min Scan# 569
Delta R.T. 0.018 min
Lab File: VN078230.D
Acq: 15 Jun 2023 15:56

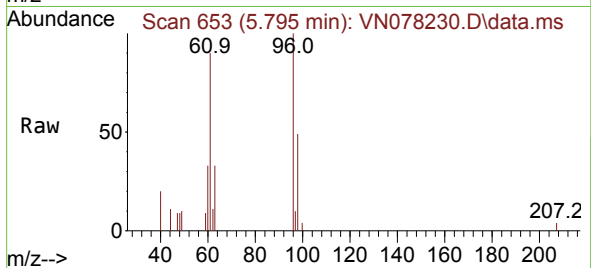
Tgt Ion: 84 Resp: 2414
Ion Ratio Lower Upper
84 100
49 57.9 79.7 119.5#
51 18.5 25.2 37.8#
86 66.7 53.3 79.9



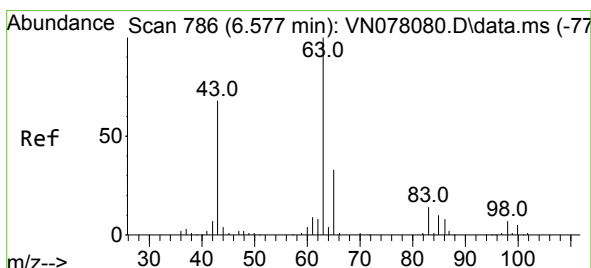
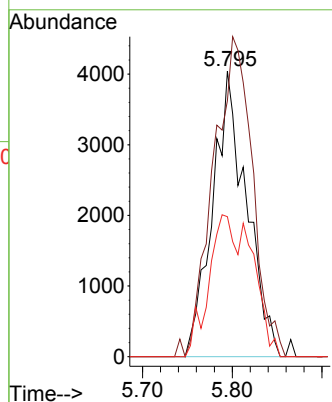
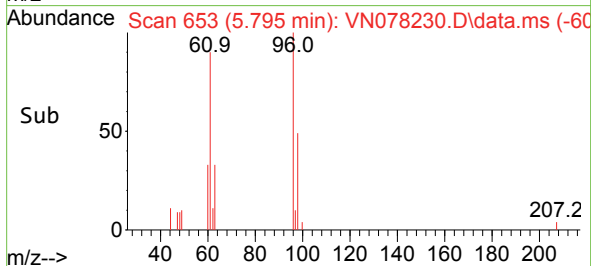


#21
trans-1,2-Dichloroethene
Concen: 1.969 ug/l
RT: 5.795 min Scan# 611
Delta R.T. 0.000 min
Lab File: VN078230.D
Acq: 15 Jun 2023 15:56

Instrument :
MSVOA_N
ClientSampleId :

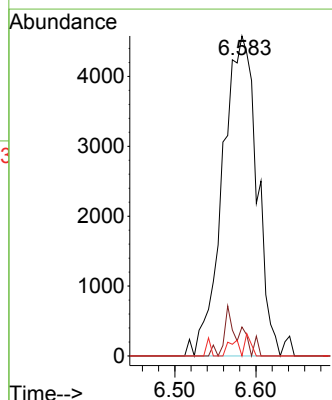
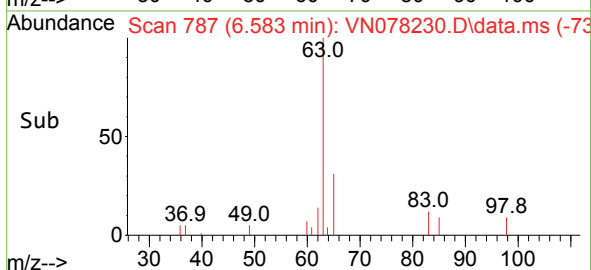
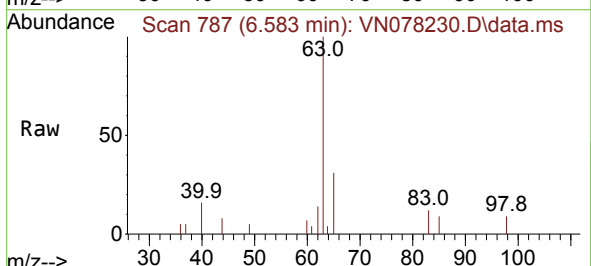


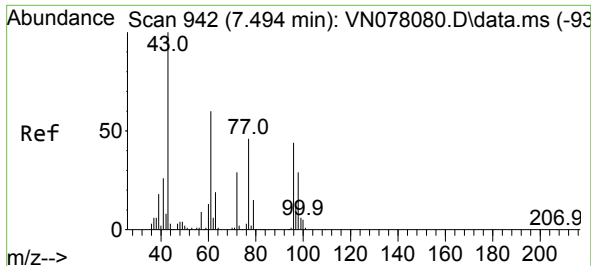
Tgt Ion: 96 Resp: 10614
Ion Ratio Lower Upper
96 100
61 84.4 90.1 135.1#
98 49.0 46.4 69.6



#24
1,1-Dichloroethane
Concen: 1.425 ug/l
RT: 6.583 min Scan# 787
Delta R.T. 0.006 min
Lab File: VN078230.D
Acq: 15 Jun 2023 15:56

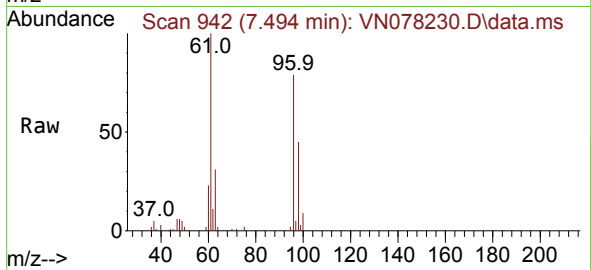
Tgt Ion: 63 Resp: 13488
Ion Ratio Lower Upper
63 100
98 9.1 3.9 11.7
100 0.0 2.5 7.4#



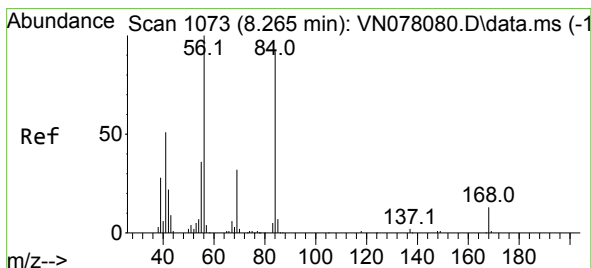
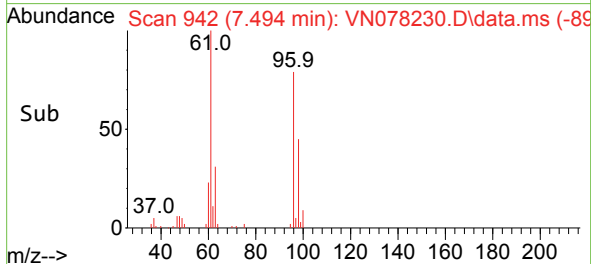
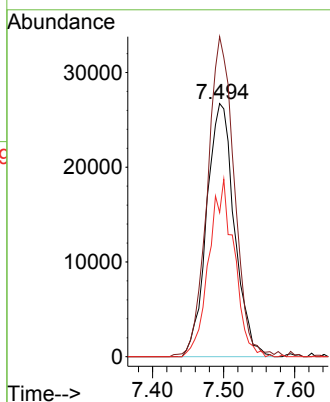


#27
 cis-1,2-Dichloroethene
 Concen: 11.272 ug/l
 RT: 7.494 min Scan# 94
 Delta R.T. 0.000 min
 Lab File: VN078230.D
 Acq: 15 Jun 2023 15:56

Instrument :
 MSVOA_N
 ClientSampleId :

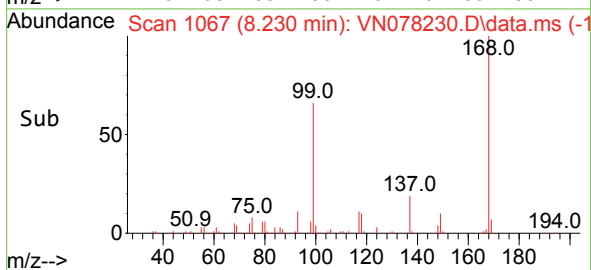
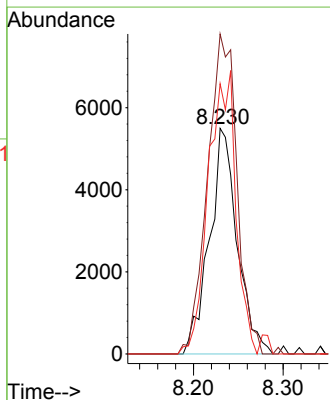
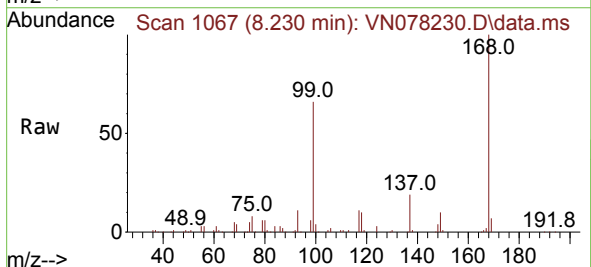


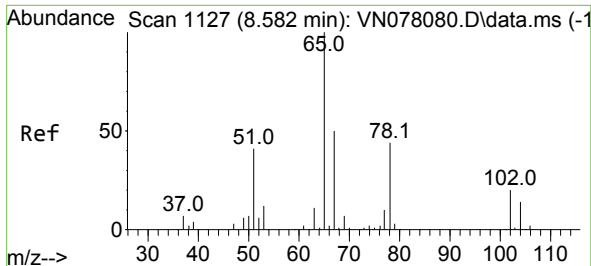
Tgt Ion	Ratio	Lower	Upper
96	100		
61	122.3	0.0	255.2
98	63.9	0.0	128.8



#31
 Cyclohexane
 Concen: 1.513 ug/l
 RT: 8.230 min Scan# 1067
 Delta R.T. -0.035 min
 Lab File: VN078230.D
 Acq: 15 Jun 2023 15:56

Tgt Ion	Ratio	Lower	Upper
56	100		
69	141.9	26.8	40.2#
84	119.8	81.8	122.6





#33

1,2-Dichloroethane-d4

Concen: 53.392 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. 0.006 min

Lab File: VN078230.D

Acq: 15 Jun 2023 15:56

Instrument :

MSVOA_N

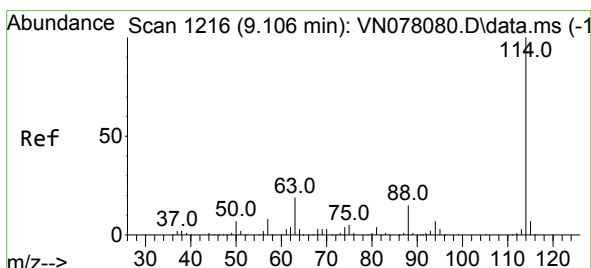
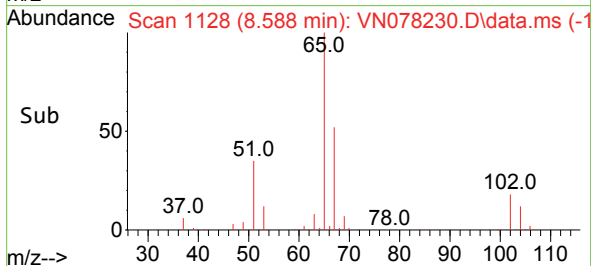
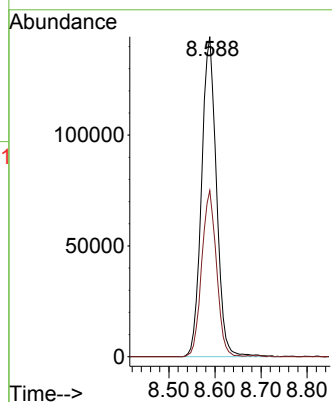
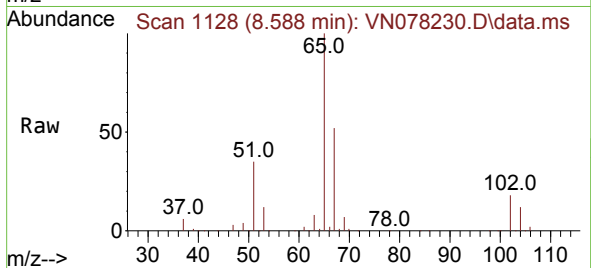
ClientSampleId :

Tgt Ion: 65 Resp: 325793

Ion Ratio Lower Upper

65 100

67 51.5 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.112 min Scan# 1217

Delta R.T. 0.006 min

Lab File: VN078230.D

Acq: 15 Jun 2023 15:56

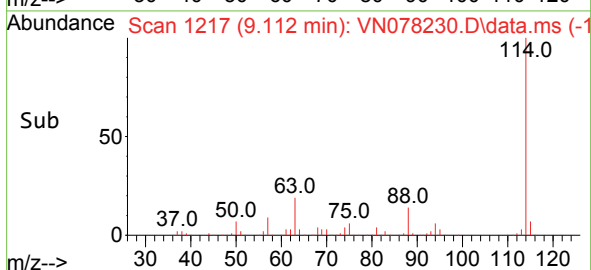
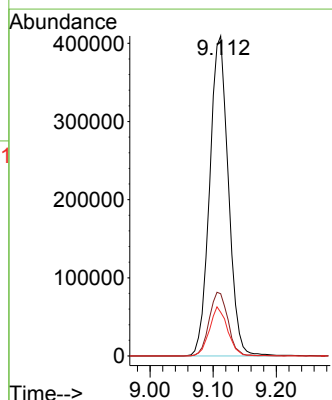
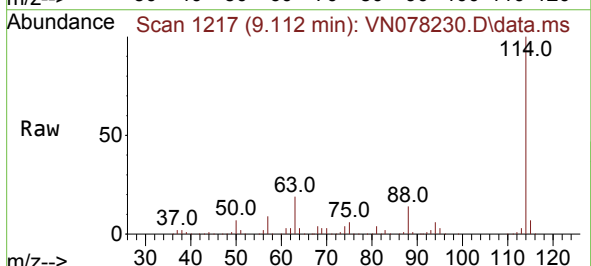
Tgt Ion: 114 Resp: 840121

Ion Ratio Lower Upper

114 100

63 19.5 0.0 36.4

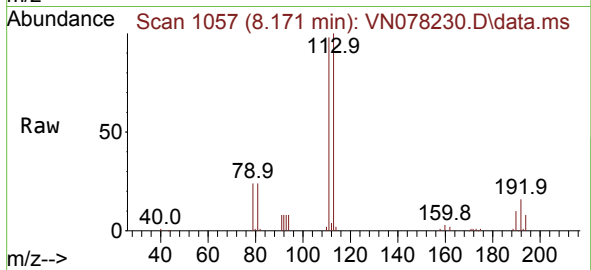
88 13.7 0.0 30.6



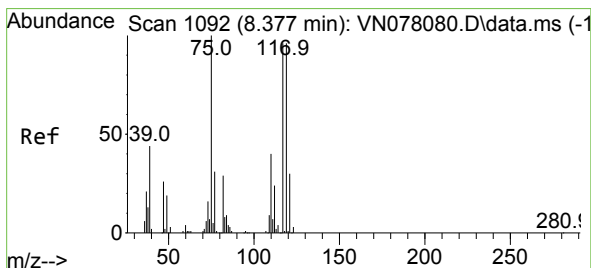
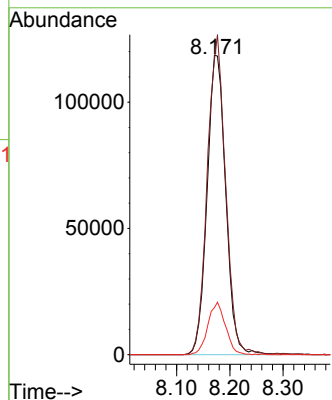
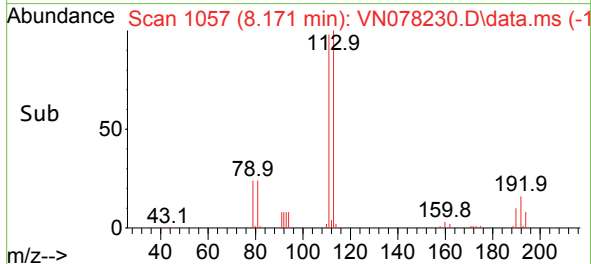


#35
Dibromofluoromethane
Concen: 54.150 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. -0.006 min
Lab File: VN078230.D
Acq: 15 Jun 2023 15:56

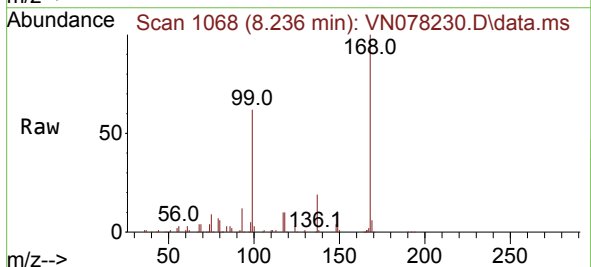
Instrument :
MSVOA_N
ClientSampleId :



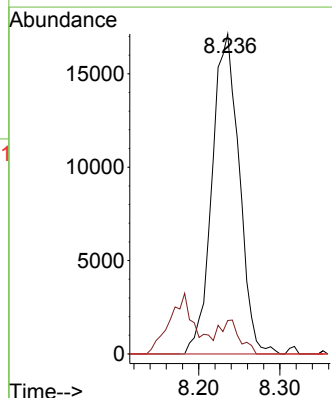
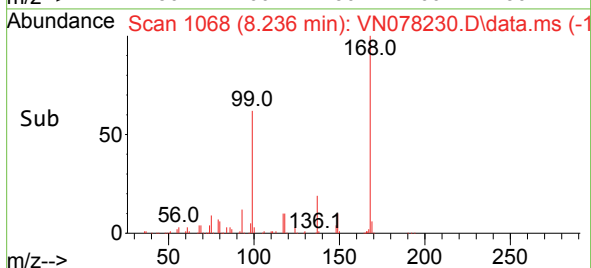
Tgt Ion:113 Resp: 287642
Ion Ratio Lower Upper
113 100
111 105.0 82.6 123.8
192 16.6 12.7 19.1

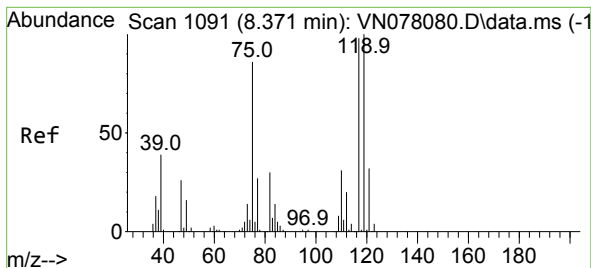


#36
1,1-Dichloropropene
Concen: 5.233 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.141 min
Lab File: VN078230.D
Acq: 15 Jun 2023 15:56



Tgt Ion: 75 Resp: 39869
Ion Ratio Lower Upper
75 100
110 8.0 19.1 57.3#
77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.009 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.141 min

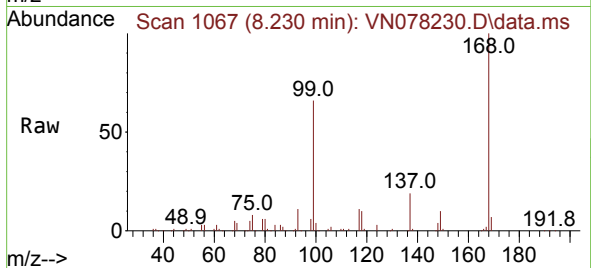
Lab File: VN078230.D

Acq: 15 Jun 2023 15:56

Instrument :

MSVOA_N

ClientSampleId :



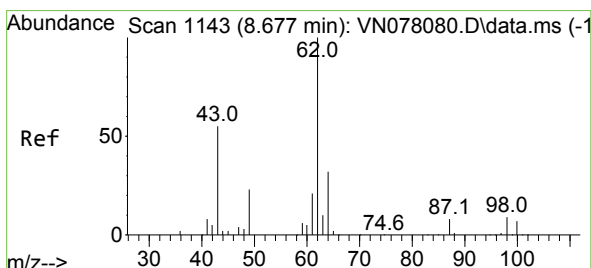
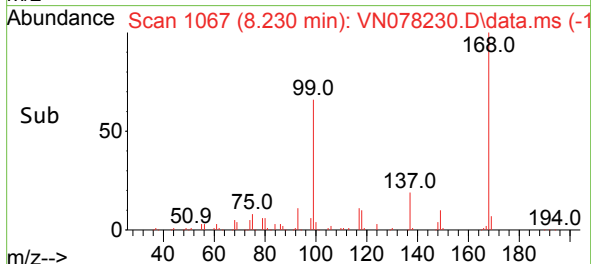
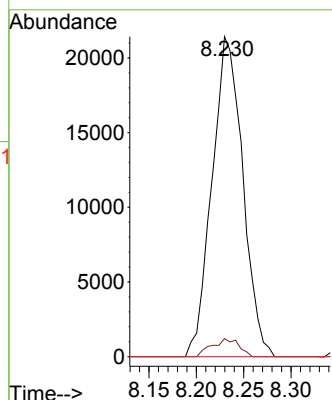
Tgt Ion:117 Resp: 48346

Ion Ratio Lower Upper

117 100

119 5.7 77.3 115.9#

121 0.0 23.3 34.9#



#42

1,2-Dichloroethane

Concen: 1.115 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. 0.006 min

Lab File: VN078230.D

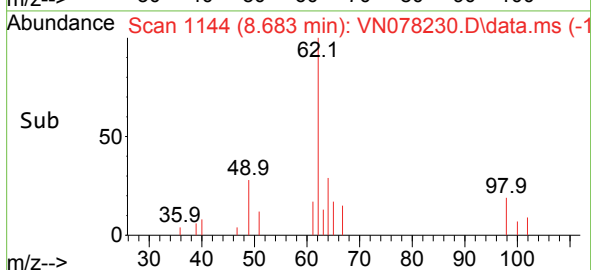
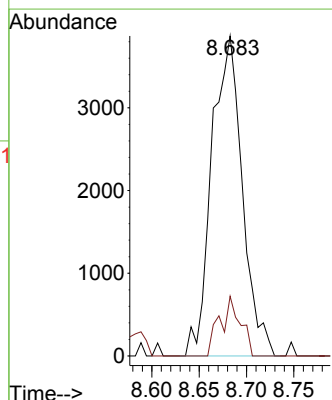
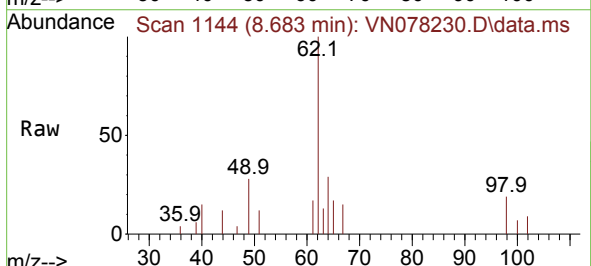
Acq: 15 Jun 2023 15:56

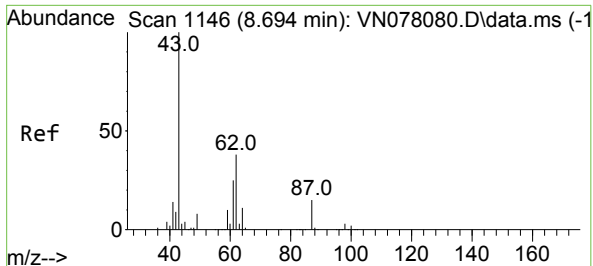
Tgt Ion: 62 Resp: 8699

Ion Ratio Lower Upper

62 100

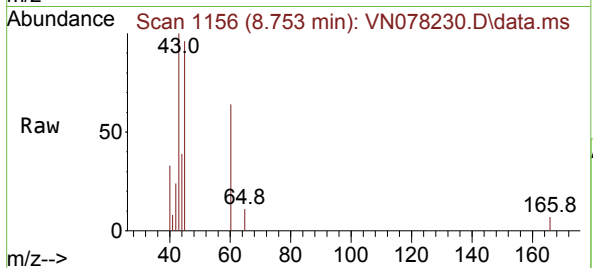
98 12.5 0.0 19.8



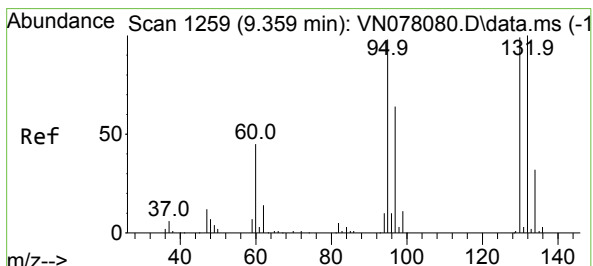
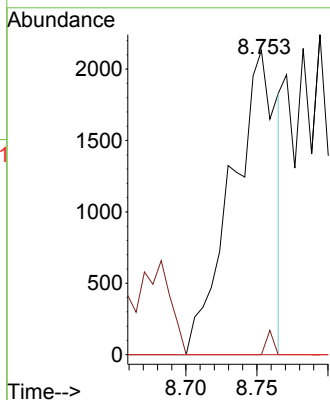
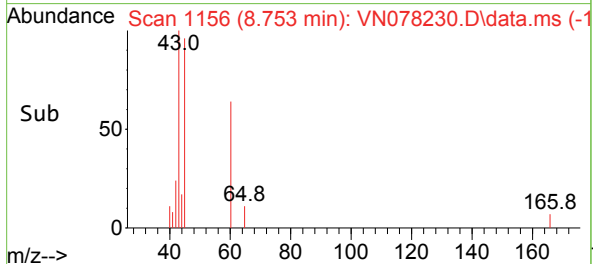


#43
Isopropyl Acetate
Concen: 0.409 ug/l
RT: 8.753 min Scan# 1156
Delta R.T. 0.059 min
Lab File: VN078230.D
Acq: 15 Jun 2023 15:56

Instrument :
MSVOA_N
ClientSampleId :

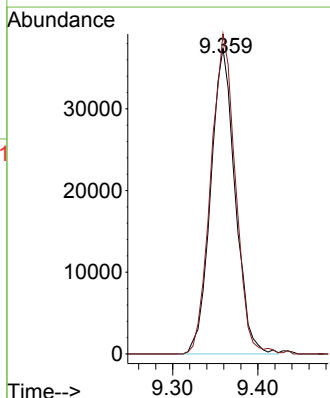
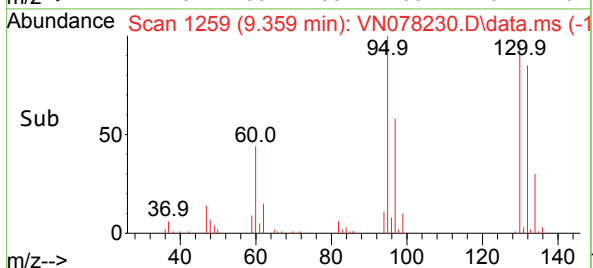
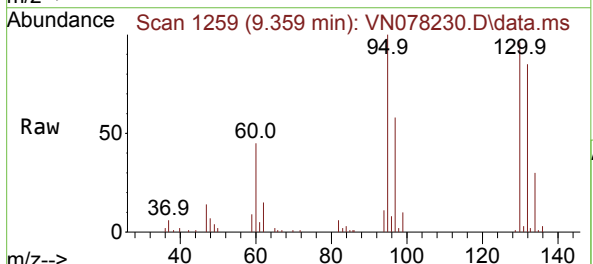


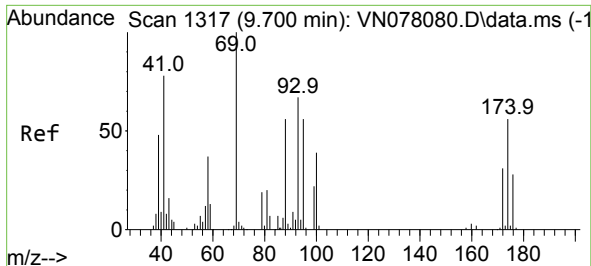
Tgt Ion: 43 Resp: 4656
Ion Ratio Lower Upper
43 100
61 0.0 24.7 37.1#
87 0.0 14.6 21.8#



#44
Trichloroethene
Concen: 12.447 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. 0.000 min
Lab File: VN078230.D
Acq: 15 Jun 2023 15:56

Tgt Ion: 130 Resp: 74770
Ion Ratio Lower Upper
130 100
95 104.7 0.0 204.6





#49

1,4-Dioxane

Concen: 18.475 ug/l

RT: 9.706 min Scan# 1

Delta R.T. 0.006 min

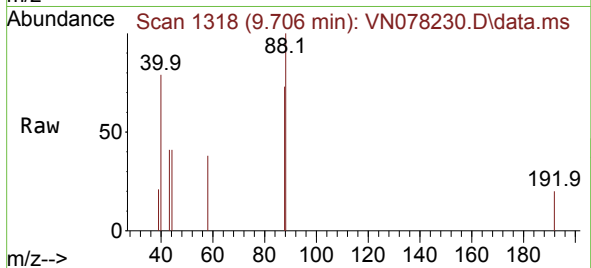
Lab File: VN078230.D

Acq: 15 Jun 2023 15:56

Instrument :

MSVOA_N

ClientSampleId :



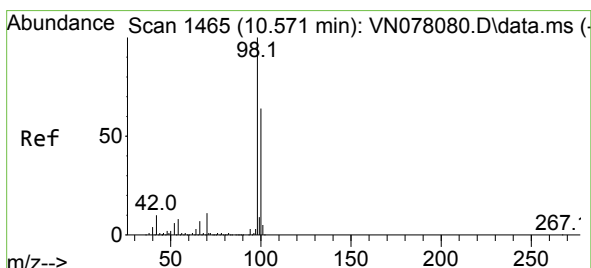
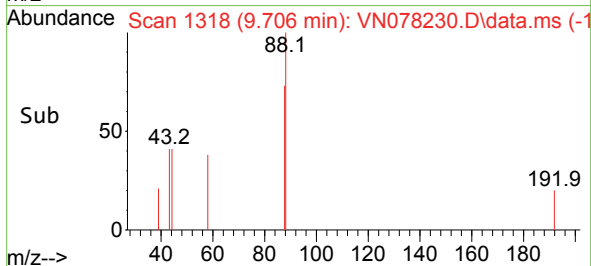
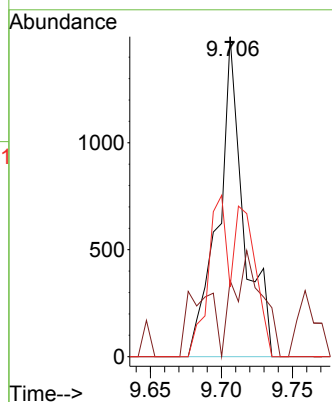
Tgt Ion: 88 Resp: 1855

Ion Ratio Lower Upper

88 100

43 36.9 17.0 25.6#

58 39.9 47.0 70.4#



#50

Toluene-d8

Concen: 47.594 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VN078230.D

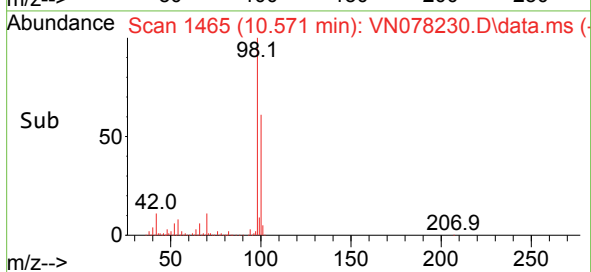
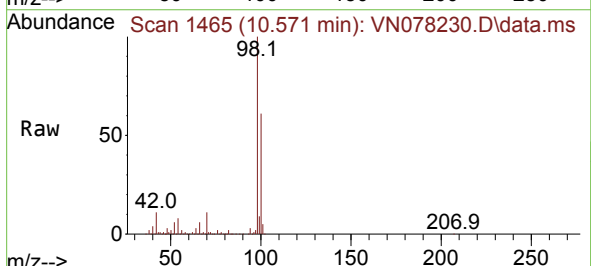
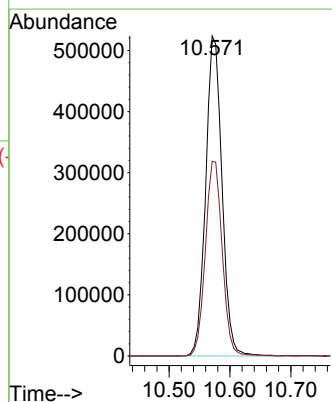
Acq: 15 Jun 2023 15:56

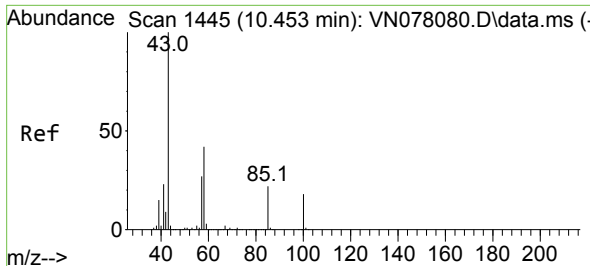
Tgt Ion: 98 Resp: 974635

Ion Ratio Lower Upper

98 100

100 62.7 52.0 78.0





#51

4-Methyl-2-Pentanone

Concen: 0.737 ug/l

RT: 10.571 min Scan# 1445

Delta R.T. 0.118 min

Lab File: VN078230.D

Acq: 15 Jun 2023 15:56

Instrument :

MSVOA_N

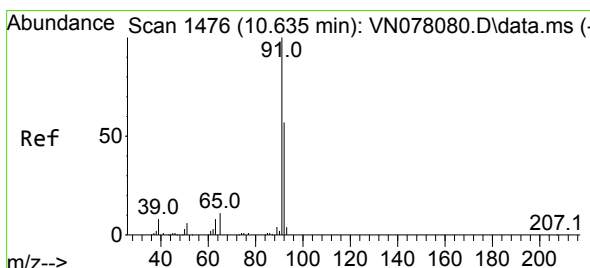
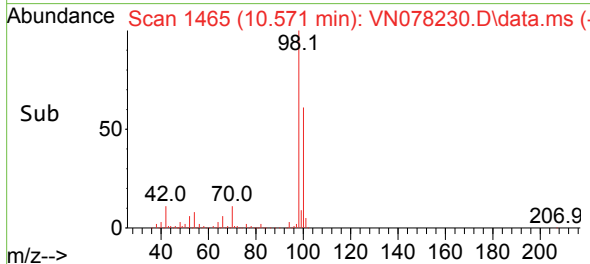
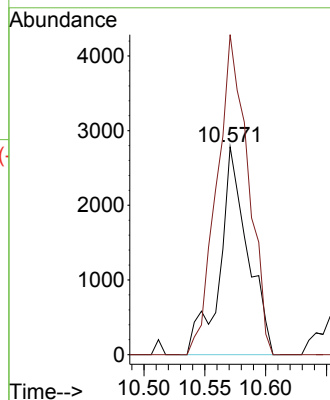
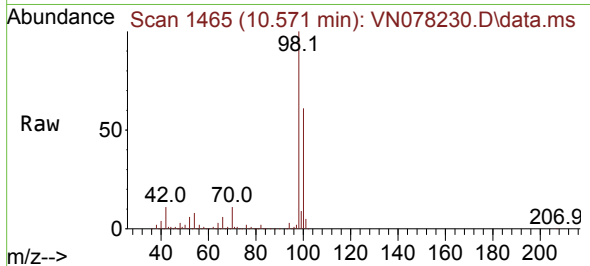
ClientSampleId :

Tgt Ion: 43 Resp: 4417

Ion Ratio Lower Upper

43 100

58 173.9 36.6 54.8#



#52

Toluene

Concen: 2.146 ug/l

RT: 10.641 min Scan# 1477

Delta R.T. 0.006 min

Lab File: VN078230.D

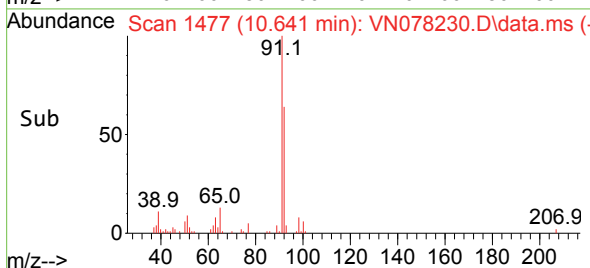
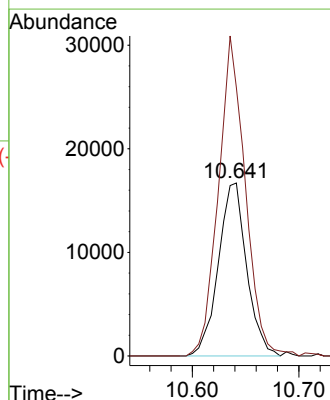
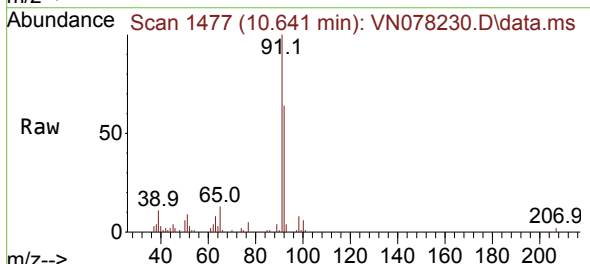
Acq: 15 Jun 2023 15:56

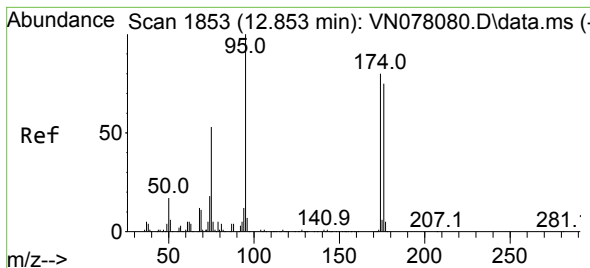
Tgt Ion: 92 Resp: 30820

Ion Ratio Lower Upper

92 100

91 174.9 137.4 206.0

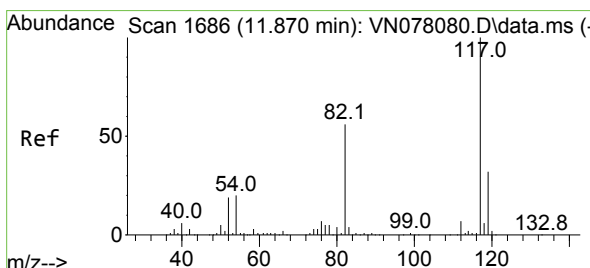
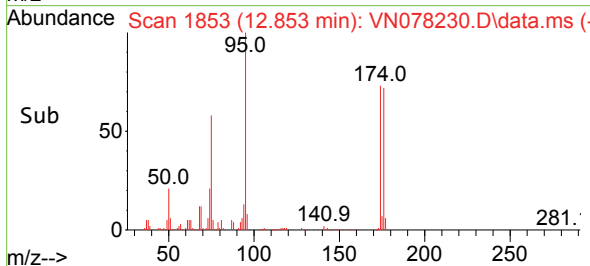
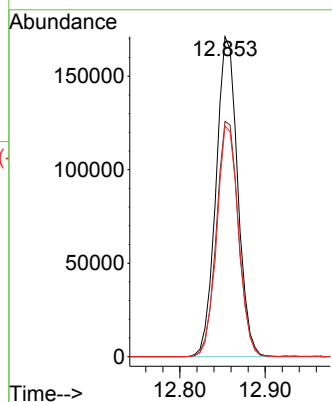
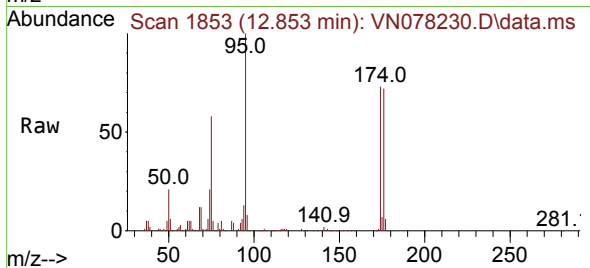




#62
4-Bromofluorobenzene
Concen: 47.368 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN078230.D
Acq: 15 Jun 2023 15:56

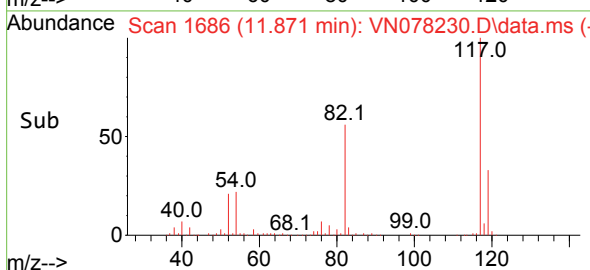
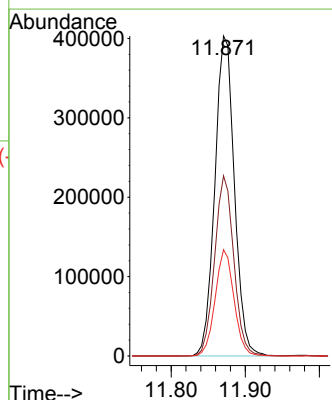
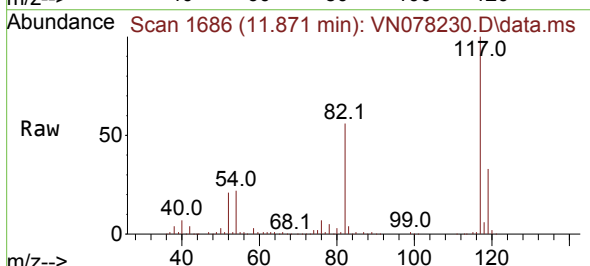
Instrument :
MSVOA_N
ClientSampleId :

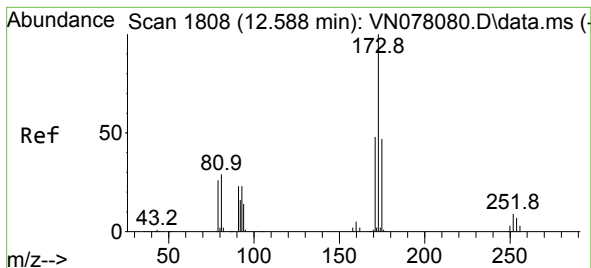
Tgt Ion: 95 Resp: 301550
Ion Ratio Lower Upper
95 100
174 74.7 0.0 143.8
176 72.4 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN078230.D
Acq: 15 Jun 2023 15:56

Tgt Ion: 117 Resp: 739152
Ion Ratio Lower Upper
117 100
82 56.3 44.0 66.0
119 33.2 25.6 38.4





#71

Bromoform

Concen: 0.896 ug/l

RT: 12.853 min Scan# 11

Delta R.T. 0.265 min

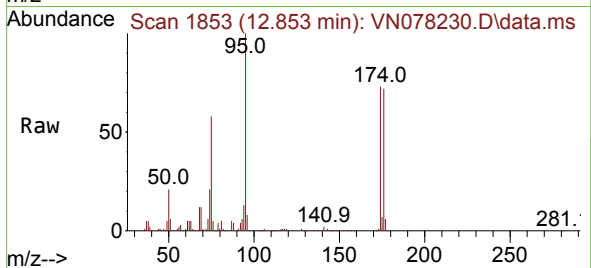
Lab File: VN078230.D

Acq: 15 Jun 2023 15:56

Instrument :

MSVOA_N

ClientSampleId :



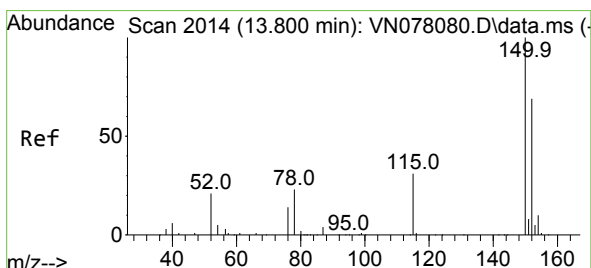
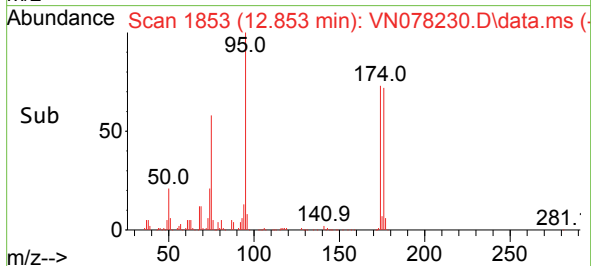
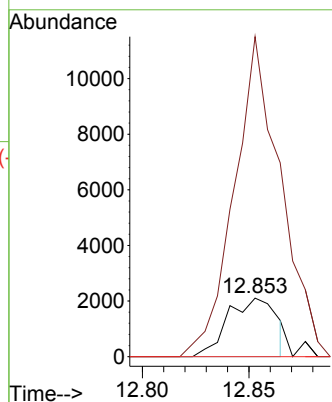
Tgt Ion:173 Resp: 3365

Ion Ratio Lower Upper

173 100

175 452.8 24.3 73.0#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. -0.006 min

Lab File: VN078230.D

Acq: 15 Jun 2023 15:56

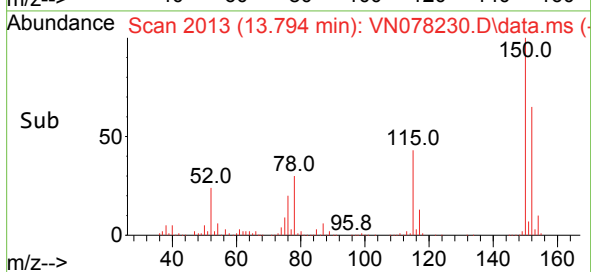
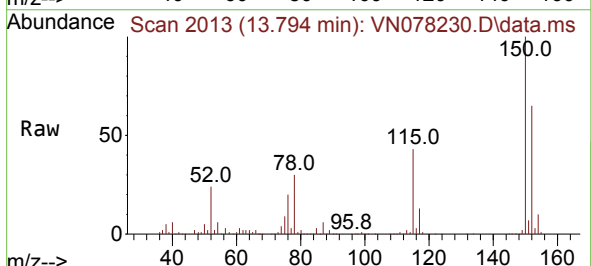
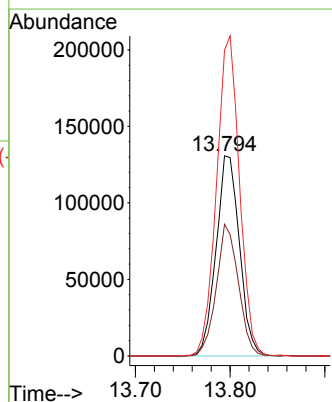
Tgt Ion:152 Resp: 224455

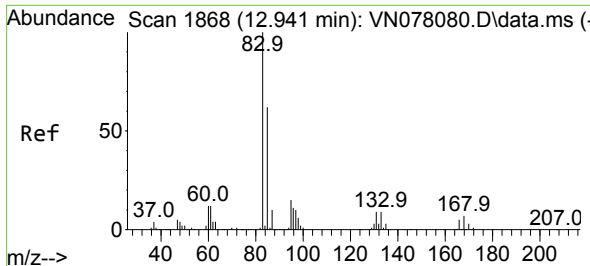
Ion Ratio Lower Upper

152 100

115 62.3 32.3 96.8

150 157.2 0.0 355.8

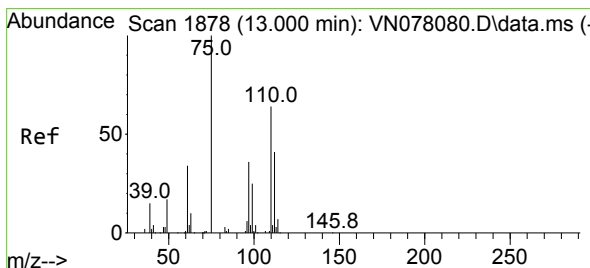
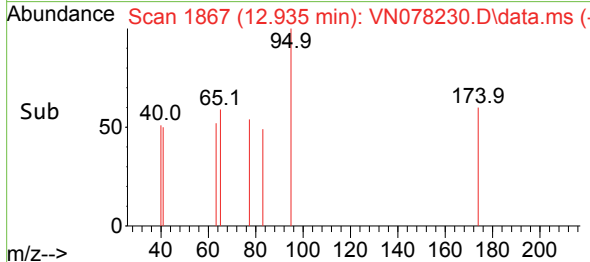
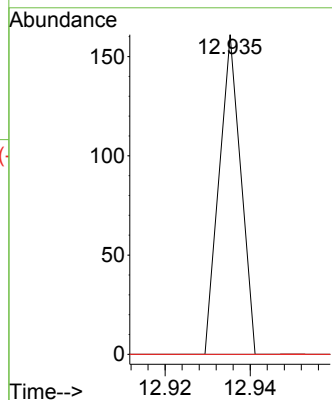
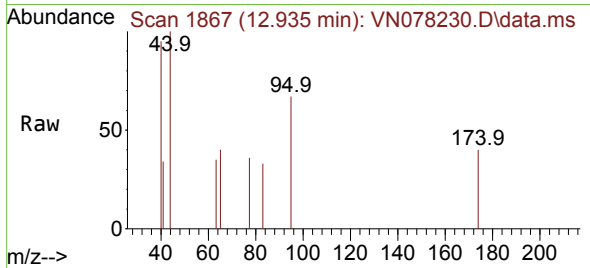




#75
 1,1,2,2-Tetrachloroethane
 Concen: Below Cal
 RT: 12.935 min Scan# 1867
 Delta R.T. -0.006 min
 Lab File: VN078230.D
 Acq: 15 Jun 2023 15:56

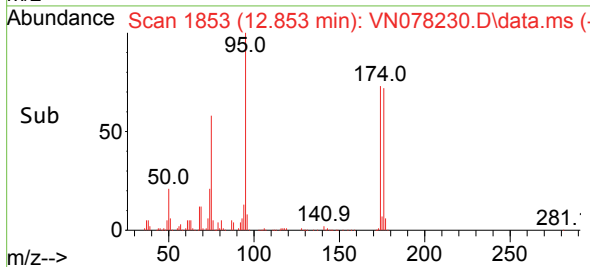
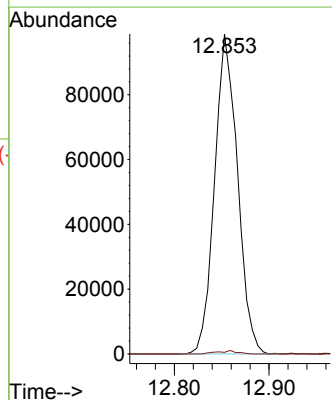
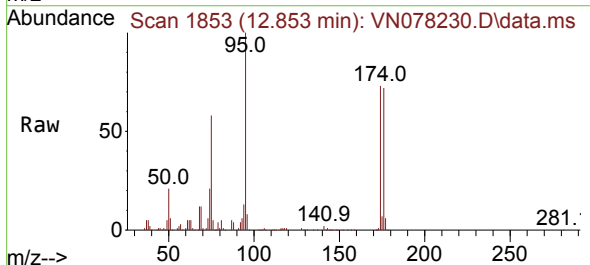
Instrument :
 MSVOA_N
 ClientSampleId :

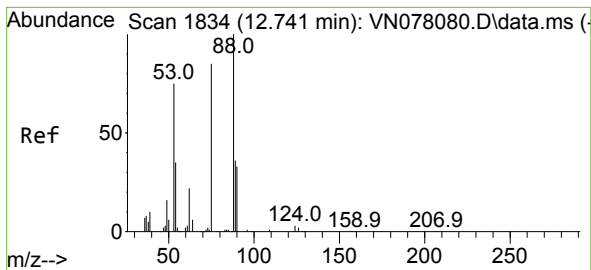
Tgt Ion: 83 Resp: 57
 Ion Ratio Lower Upper
 83 100
 131 0.0 5.0 15.0#
 85 0.0 31.9 95.7#



#76
 1,2,3-Trichloropropane
 Concen: 31.265 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. -0.147 min
 Lab File: VN078230.D
 Acq: 15 Jun 2023 15:56

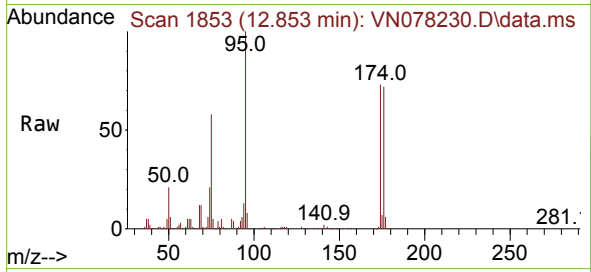
Tgt Ion: 75 Resp: 165899
 Ion Ratio Lower Upper
 75 100
 77 0.9 84.5 253.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 96.056 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN078230.D
 Acq: 15 Jun 2023 15:56

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 75 Resp: 165899
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.4 101.2#
 89 0.0 38.8 58.2#

