

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061423\
 Data File : VN078203.D
 Acq On : 14 Jun 2023 14:08
 Operator : JC\MD
 Sample : 03160-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PNNL-B-0609-1

Quant Time: Jun 15 02:43:44 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)

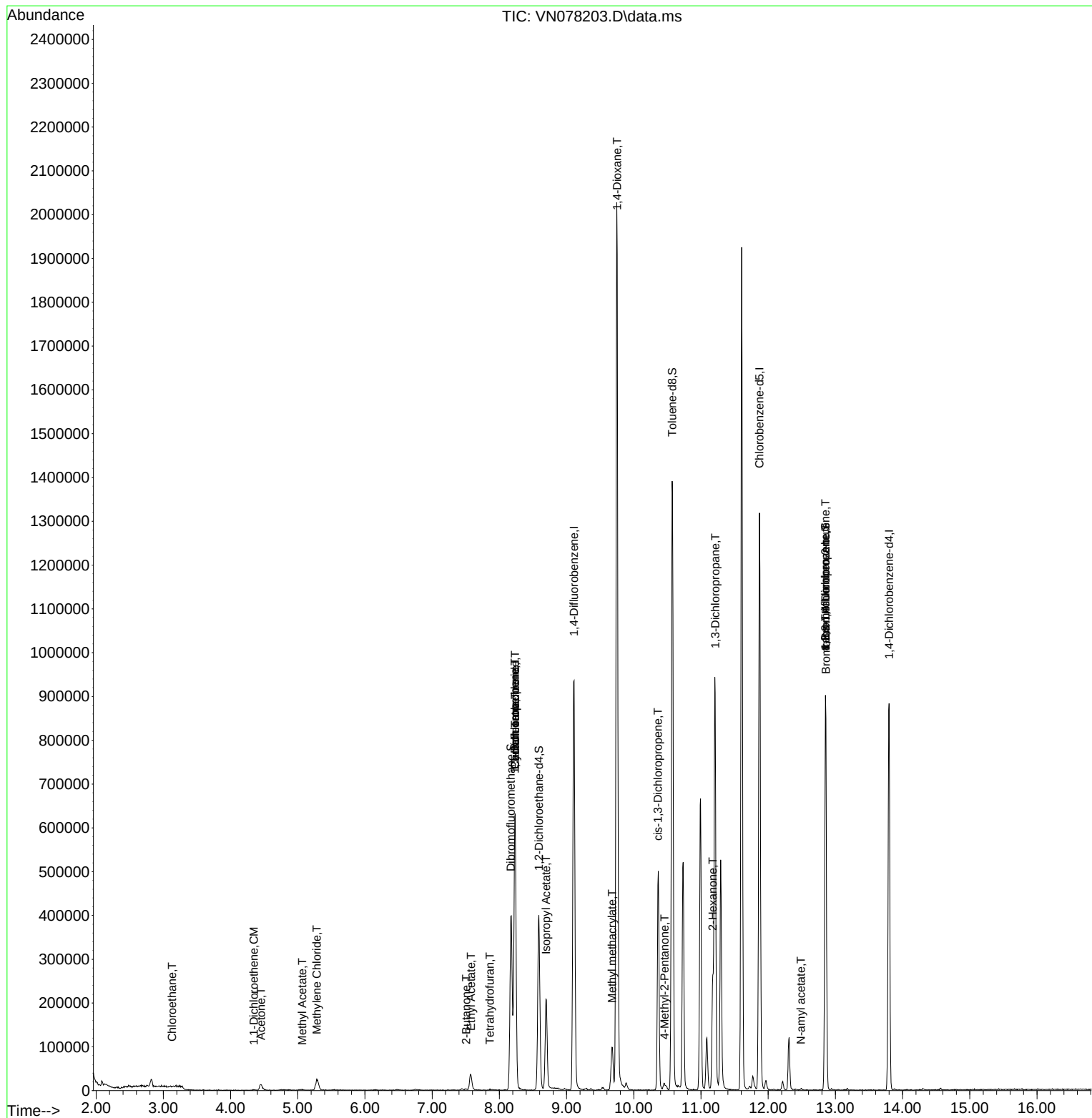
Internal Standards						
1) Pentafluorobenzene	8.235	168	452692	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	844693	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	773080	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	242729	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	324267	53.724	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 107.440%	
35) Dibromofluoromethane	8.171	113	293896	55.028	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 110.060%	
50) Toluene-d8	10.571	98	1021990	49.636	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 99.280%	
62) 4-Bromofluorobenzene	12.853	95	323225	50.497	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 101.000%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.371	50	1100	Below Cal	#	42
6) Chloroethane	3.130	64	1344	0.294	ug/l #	78
12) 1,1-Dichloroethene	4.347	96	1157	0.234	ug/l #	48
16) Acetone	4.453	43	25686	14.785	ug/l #	84
18) Methyl Acetate	5.065	43	3356	0.420	ug/l #	56
20) Methylene Chloride	5.283	84	20523	3.575	ug/l	98
25) 2-Butanone	7.506	43	2227	0.834	ug/l #	86
29) Tetrahydrofuran	7.859	42	1356	0.759	ug/l #	41
31) Cyclohexane	8.235	56	11614	1.500	ug/l #	37
36) 1,1-Dichloropropene	8.230	75	38043	4.966	ug/l #	49
37) Ethyl Acetate	7.577	43	55387	9.255	ug/l #	76
38) Carbon Tetrachloride	8.235	117	48542	6.001	ug/l #	17
43) Isopropyl Acetate	8.694	43	230041	20.099	ug/l #	86
48) Methyl methacrylate	9.677	41	6415	1.336	ug/l #	32
49) 1,4-Dioxane	9.753	88	259	2.566	ug/l #	1
51) 4-Methyl-2-Pentanone	10.459	43	9087	1.508	ug/l	89
54) cis-1,3-Dichloropropene	10.359	75	92795	10.353	ug/l #	66
57) 1,3-Dichloropropane	11.212	76	10564	1.146	ug/l #	43
59) 2-Hexanone	11.176	43	196779	46.890	ug/l #	19
71) Bromoform	12.859	173	3092	0.787	ug/l #	1
74) N-amyl acetate	12.488	43	2150	0.284	ug/l #	36
75) 1,1,2,2-Tetrachloroethane	12.859	83	421	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.853	75	173872	30.301	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	173872	93.094	ug/l #	15

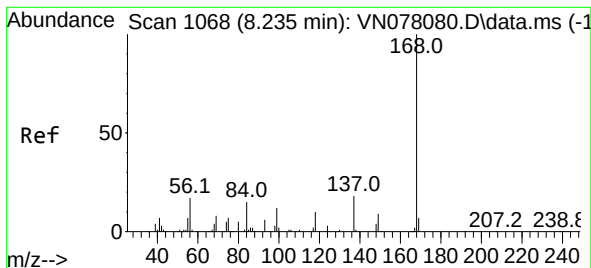
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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PNNL-B-0609-1

Quant Time: Jun 15 02:43:44 2023
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Quant Title : SW846 8260
QLast Update : Wed Jun 07 05:05:00 2023
Response via : Initial Calibration

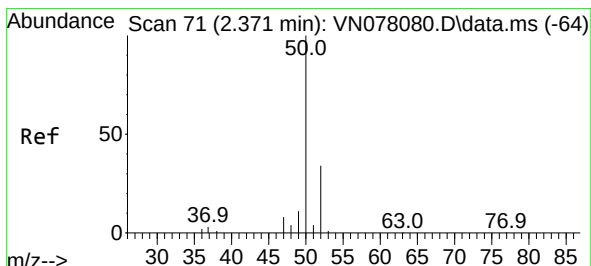
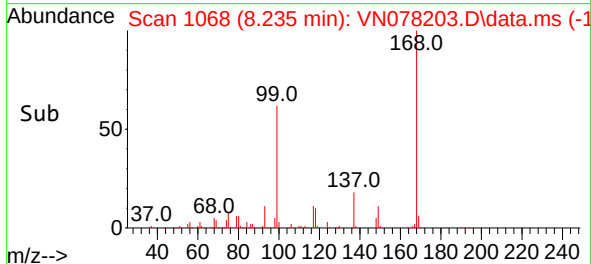
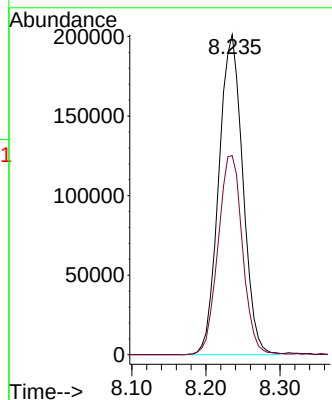
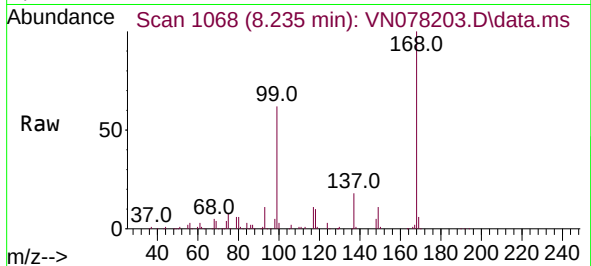




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. 0.000 min
Lab File: VN078203.D
Acq: 14 Jun 2023 14:08

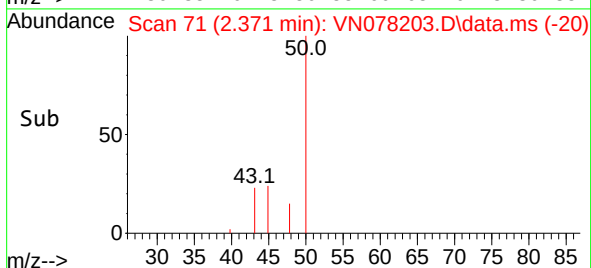
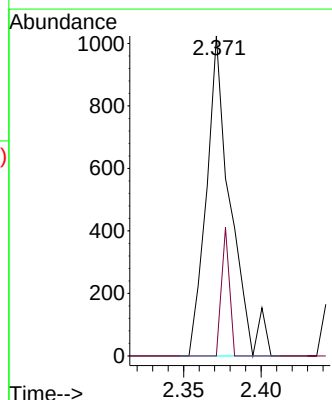
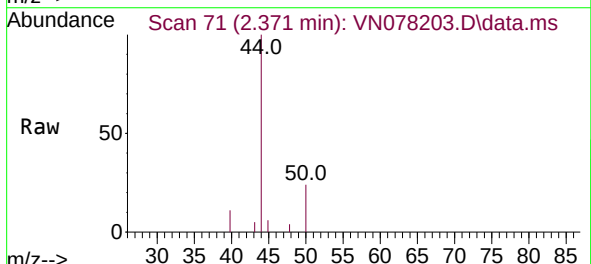
Instrument :
MSVOA_N
ClientSampleId :
PNNL-B-0609-1

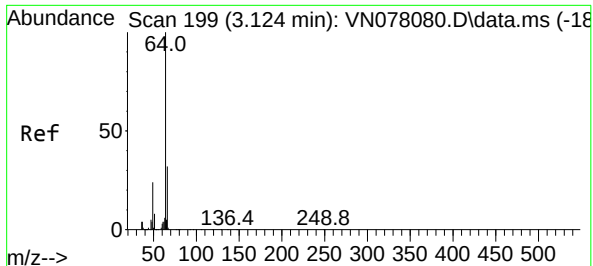
Tgt Ion:168 Resp: 452692
Ion Ratio Lower Upper
168 100
99 62.2 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.371 min Scan# 71
Delta R.T. 0.000 min
Lab File: VN078203.D
Acq: 14 Jun 2023 14:08

Tgt Ion: 50 Resp: 1100
Ion Ratio Lower Upper
50 100
52 0.0 26.5 39.7#

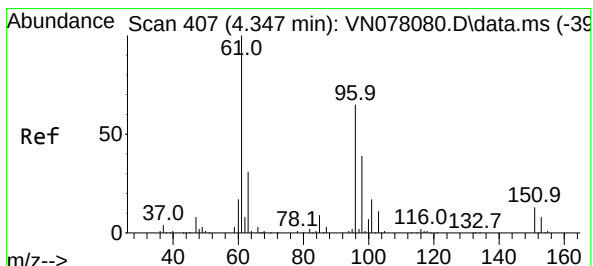
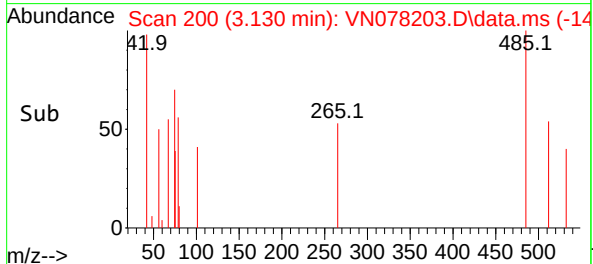
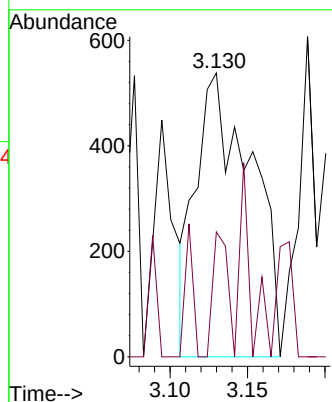
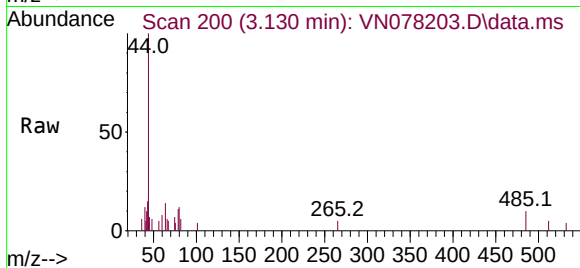




#6
Chloroethane
Concen: 0.294 ug/l
RT: 3.130 min Scan# 20
Delta R.T. 0.006 min
Lab File: VN078203.D
Acq: 14 Jun 2023 14:08

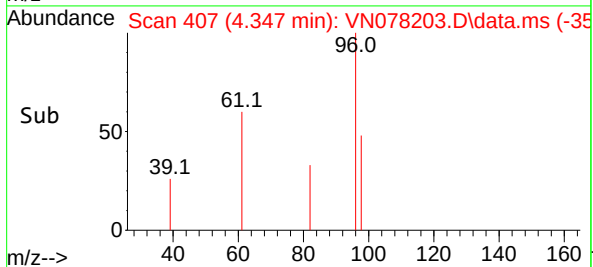
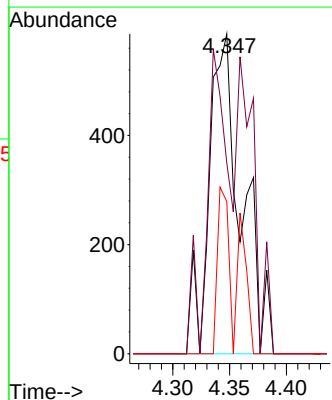
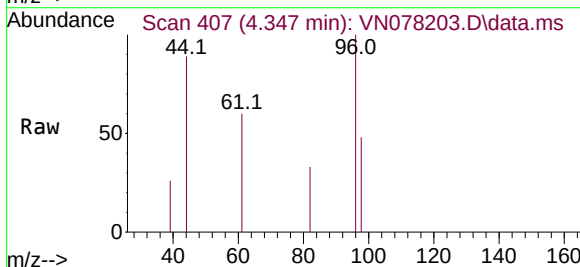
Instrument :
MSVOA_N
ClientSampleId :
PNNL-B-0609-1

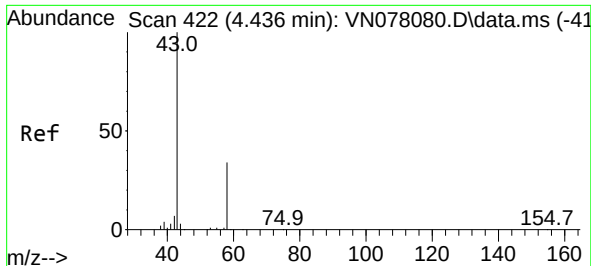
Tgt Ion: 64 Resp: 1344
Ion Ratio Lower Upper
64 100
66 44.1 25.4 38.2#



#12
1,1-Dichloroethene
Concen: 0.234 ug/l
RT: 4.347 min Scan# 407
Delta R.T. 0.000 min
Lab File: VN078203.D
Acq: 14 Jun 2023 14:08

Tgt Ion: 96 Resp: 1157
Ion Ratio Lower Upper
96 100
61 59.7 112.7 169.1#
98 47.6 51.2 76.8#

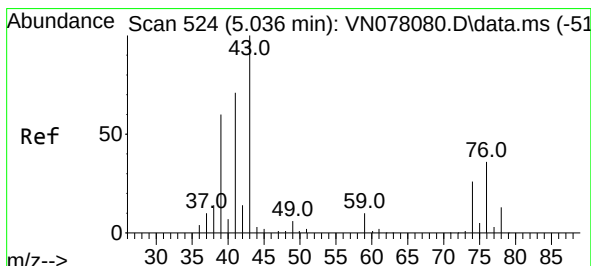
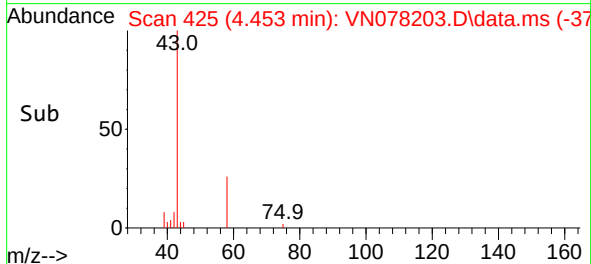
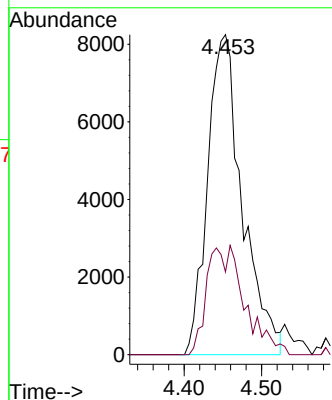
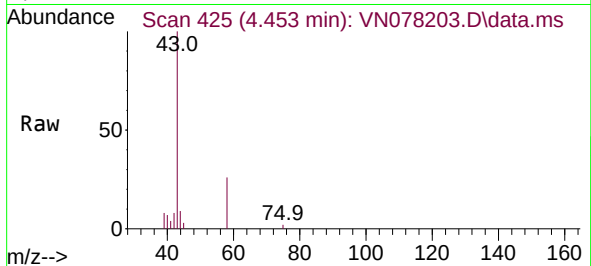




#16
Acetone
Concen: 14.785 ug/l
RT: 4.453 min Scan# 41
Delta R.T. 0.018 min
Lab File: VN078203.D
Acq: 14 Jun 2023 14:08

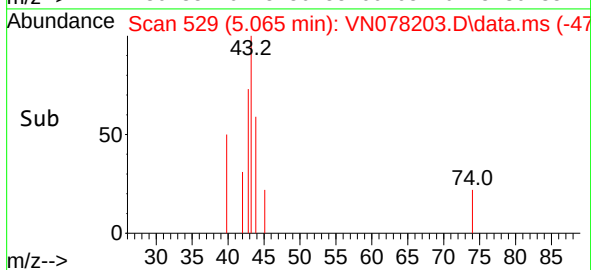
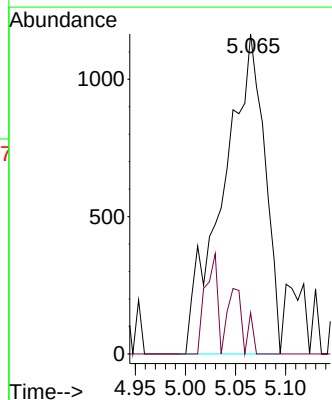
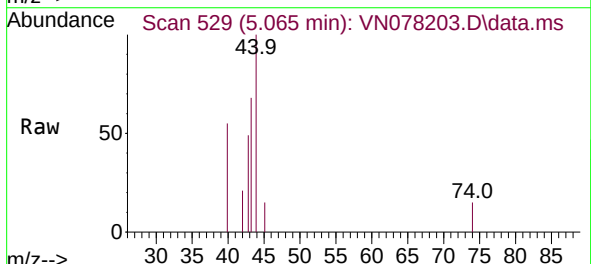
Instrument :
MSVOA_N
ClientSampleId :
PNNL-B-0609-1

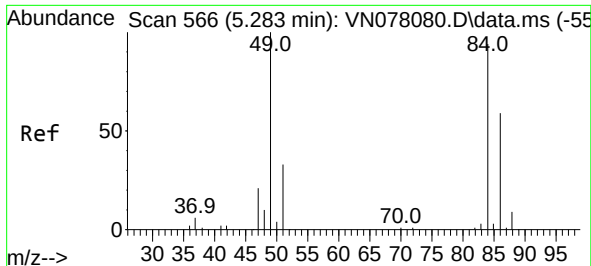
Tgt Ion: 43 Resp: 25686
Ion Ratio Lower Upper
43 100
58 25.8 28.0 42.0#



#18
Methyl Acetate
Concen: 0.420 ug/l
RT: 5.065 min Scan# 529
Delta R.T. 0.029 min
Lab File: VN078203.D
Acq: 14 Jun 2023 14:08

Tgt Ion: 43 Resp: 3356
Ion Ratio Lower Upper
43 100
74 8.1 26.2 39.4#

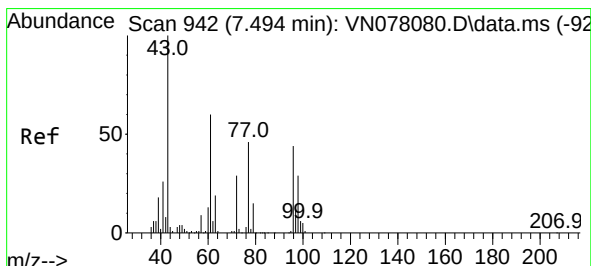
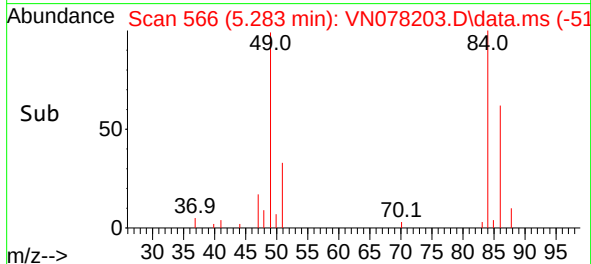
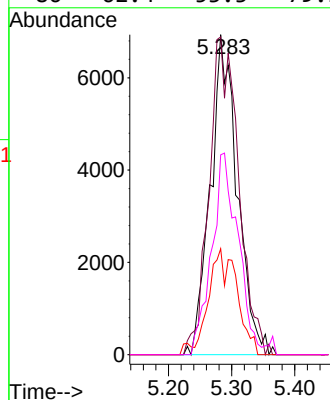
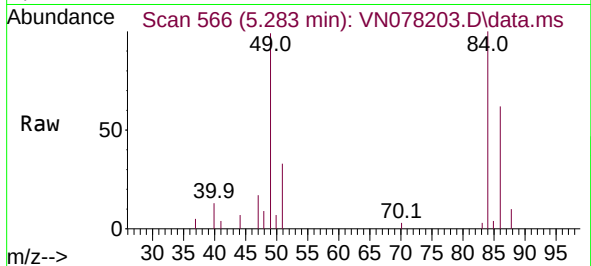




#20
Methylene Chloride
Concen: 3.575 ug/l
RT: 5.283 min Scan# 501
Delta R.T. 0.000 min
Lab File: VN078203.D
Acq: 14 Jun 2023 14:08

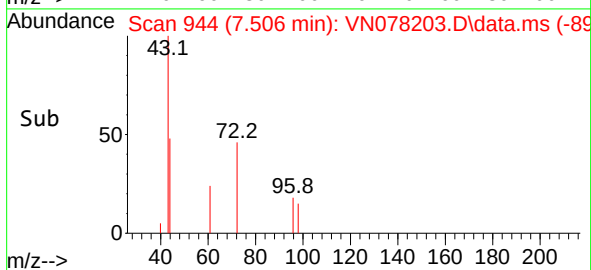
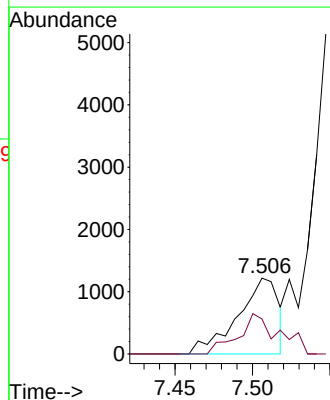
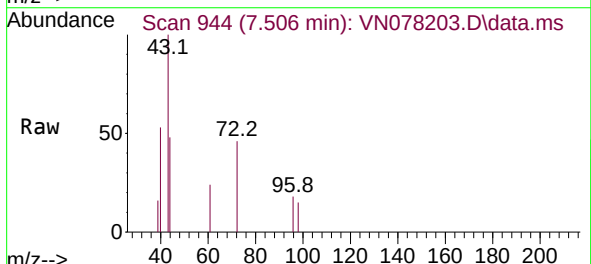
Instrument :
MSVOA_N
ClientSampleId :
PNNL-B-0609-1

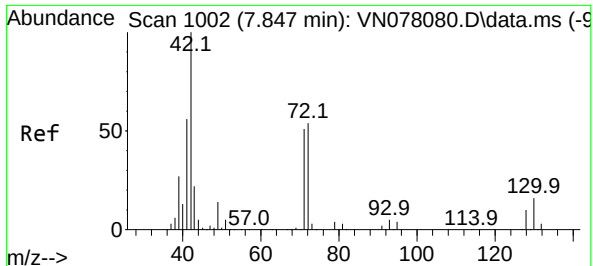
Tgt Ion:	84	Resp:	20523
Ion	Ratio	Lower	Upper
84	100		
49	99.3	79.7	119.5
51	33.1	25.2	37.8
86	62.4	53.3	79.9



#25
2-Butanone
Concen: 0.834 ug/l
RT: 7.506 min Scan# 944
Delta R.T. 0.012 min
Lab File: VN078203.D
Acq: 14 Jun 2023 14:08

Tgt Ion:	43	Resp:	2227
Ion	Ratio	Lower	Upper
43	100		
72	46.2	30.2	45.2#





#29

Tetrahydrofuran

Concen: 0.759 ug/l

RT: 7.859 min Scan# 1068

Delta R.T. 0.012 min

Lab File: VN078203.D

Acq: 14 Jun 2023 14:08

Instrument :

MSVOA_N

ClientSampleId :

PNNL-B-0609-1

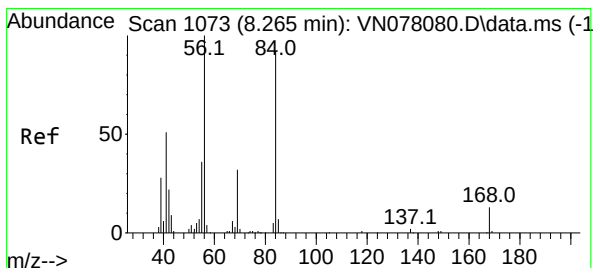
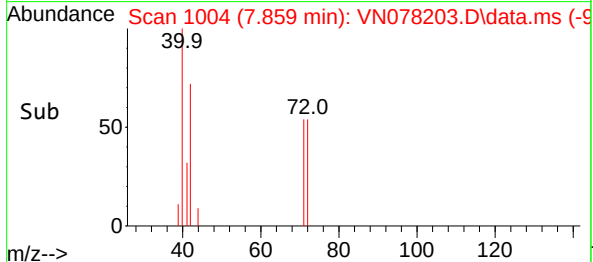
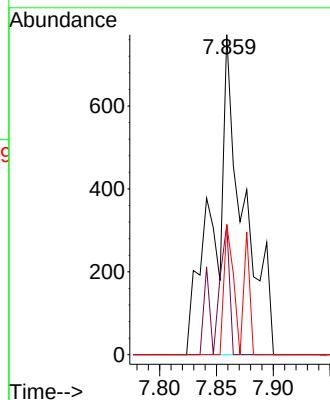
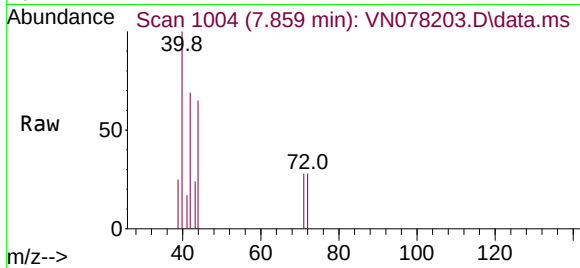
Tgt Ion: 42 Resp: 1356

Ion Ratio Lower Upper

42 100

72 18.6 49.8 74.6#

71 13.3 47.4 71.2#



#31

Cyclohexane

Concen: 1.500 ug/l

RT: 8.235 min Scan# 1068

Delta R.T. -0.029 min

Lab File: VN078203.D

Acq: 14 Jun 2023 14:08

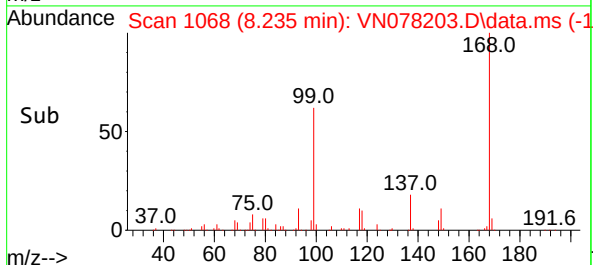
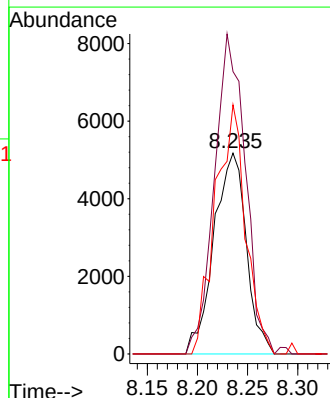
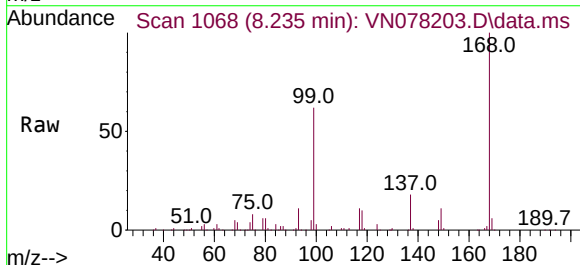
Tgt Ion: 56 Resp: 11614

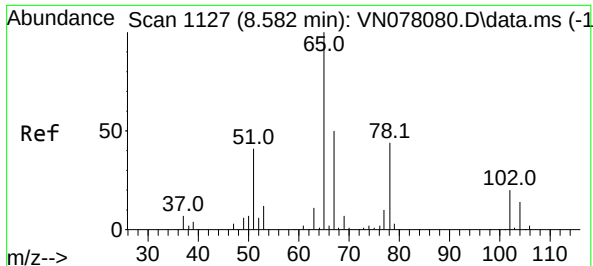
Ion Ratio Lower Upper

56 100

69 140.7 26.8 40.2#

84 124.1 81.8 122.6#





#33

1,2-Dichloroethane-d4

Concen: 53.724 ug/l

RT: 8.588 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VN078203.D

Acq: 14 Jun 2023 14:08

Instrument :

MSVOA_N

ClientSampleId :

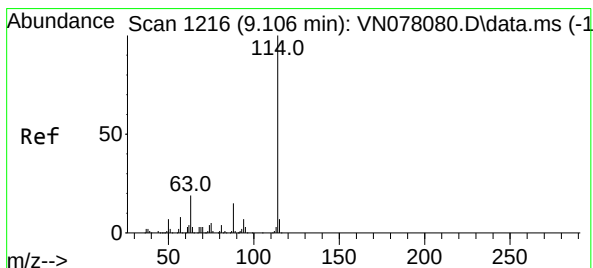
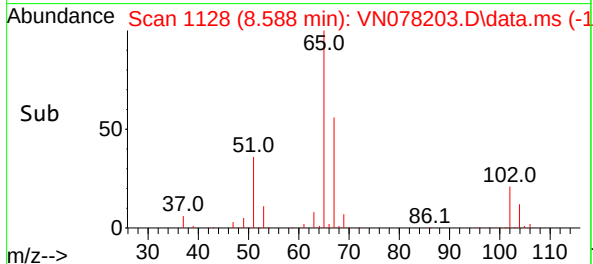
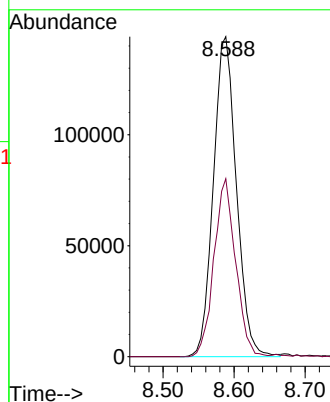
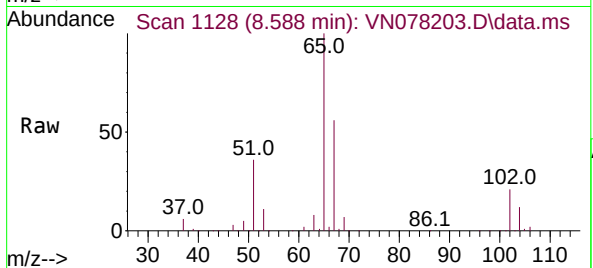
PNNL-B-0609-1

Tgt Ion: 65 Resp: 324267

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# 1217

Delta R.T. 0.006 min

Lab File: VN078203.D

Acq: 14 Jun 2023 14:08

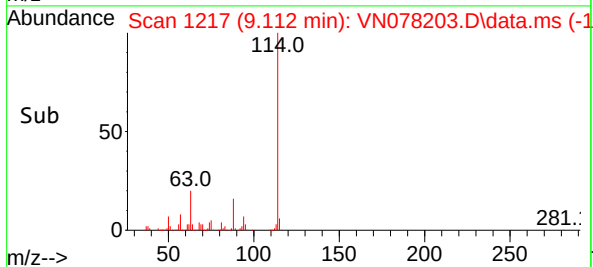
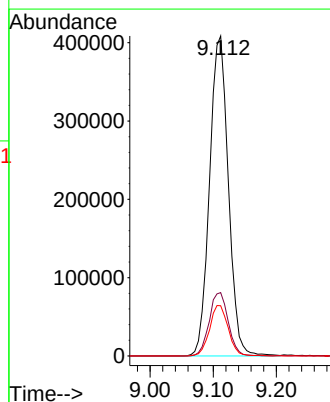
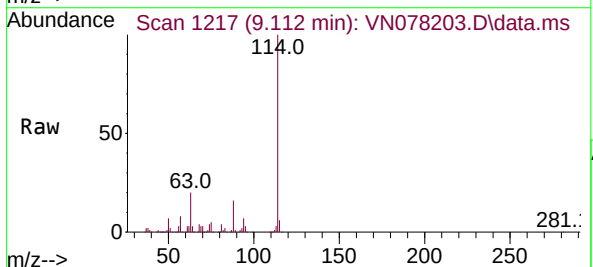
Tgt Ion: 114 Resp: 844693

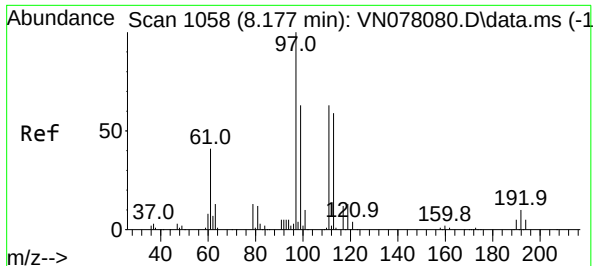
Ion Ratio Lower Upper

114 100

63 19.8 0.0 36.4

88 15.7 0.0 30.6

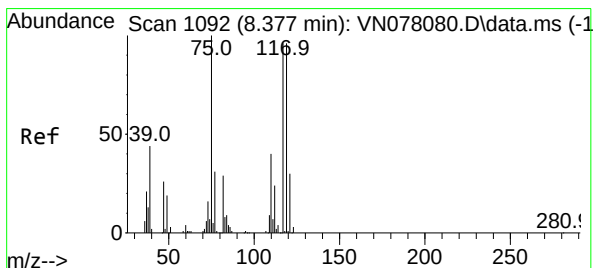
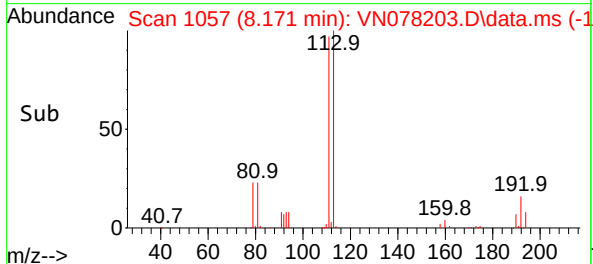
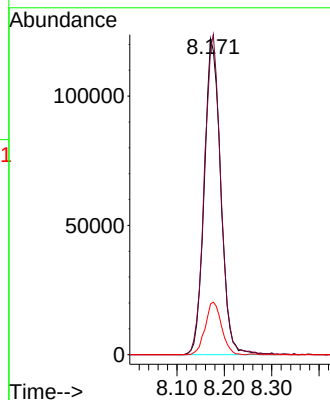
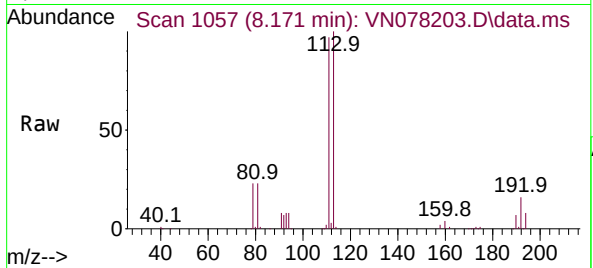




#35
Dibromofluoromethane
Concen: 55.028 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. -0.006 min
Lab File: VN078203.D
Acq: 14 Jun 2023 14:08

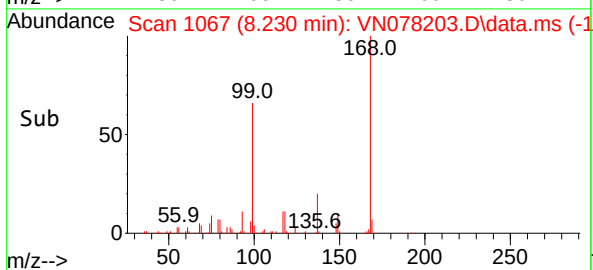
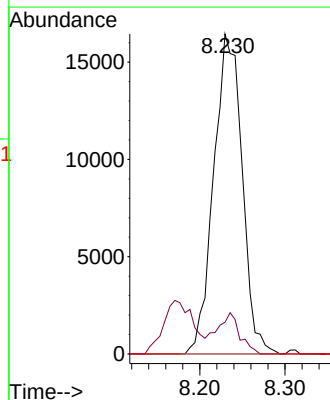
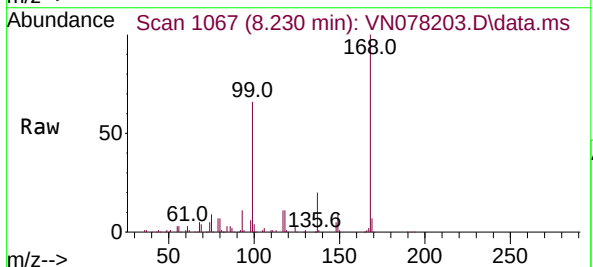
Instrument :
MSVOA_N
ClientSampleId :
PNNL-B-0609-1

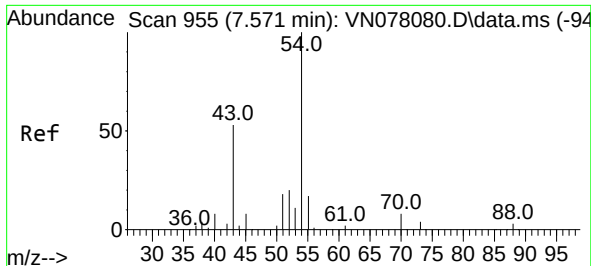
Tgt Ion:113 Resp: 293896
Ion Ratio Lower Upper
113 100
111 101.5 82.6 123.8
192 16.6 12.7 19.1



#36
1,1-Dichloropropene
Concen: 4.966 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN078203.D
Acq: 14 Jun 2023 14:08

Tgt Ion: 75 Resp: 38043
Ion Ratio Lower Upper
75 100
110 10.4 19.1 57.3#
77 0.0 25.0 37.4#

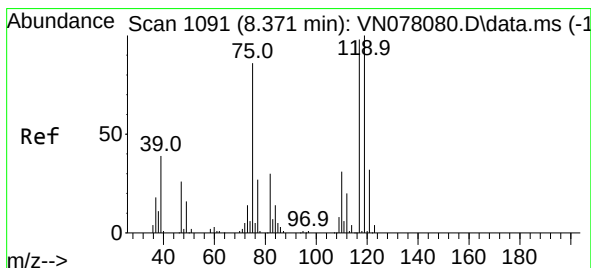
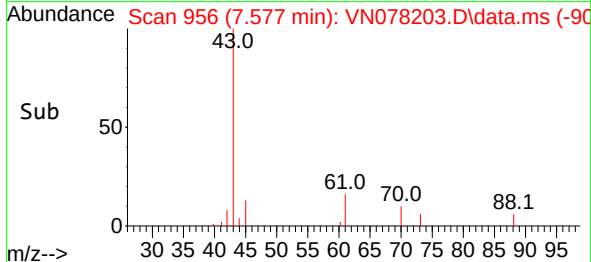
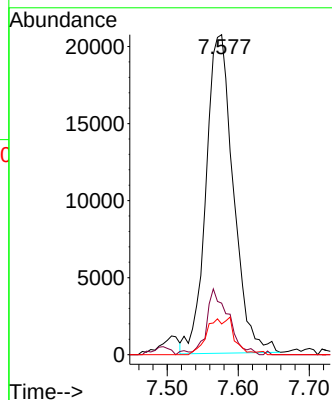
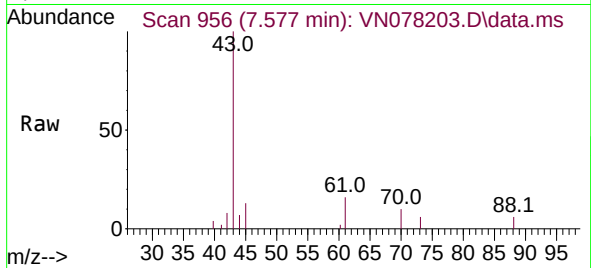




#37
Ethyl Acetate
Concen: 9.255 ug/l
RT: 7.577 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN078203.D
Acq: 14 Jun 2023 14:08

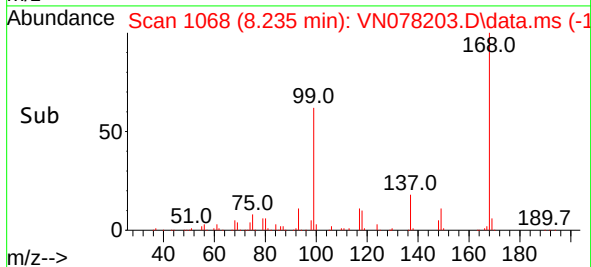
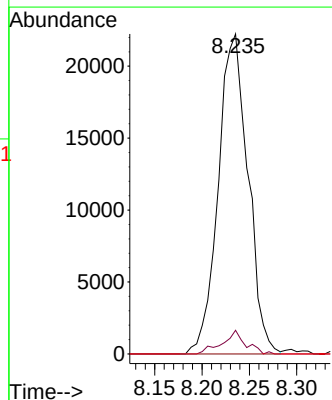
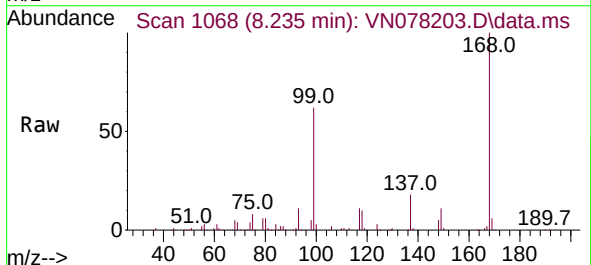
Instrument :
MSVOA_N
ClientSampleId :
PNNL-B-0609-1

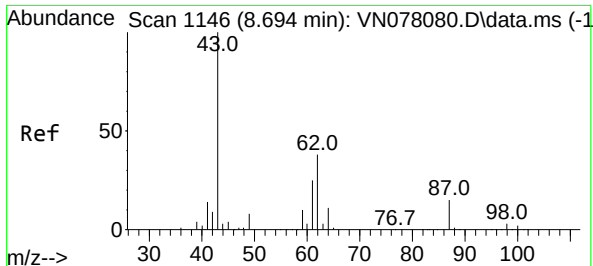
Tgt Ion: 43 Resp: 55387
Ion Ratio Lower Upper
43 100
61 0.0 13.2 19.8#
70 11.6 11.3 16.9



#38
Carbon Tetrachloride
Concen: 6.001 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.135 min
Lab File: VN078203.D
Acq: 14 Jun 2023 14:08

Tgt Ion: 117 Resp: 48542
Ion Ratio Lower Upper
117 100
119 7.4 77.3 115.9#
121 0.0 23.3 34.9#

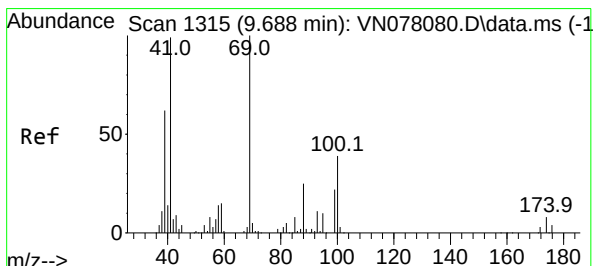
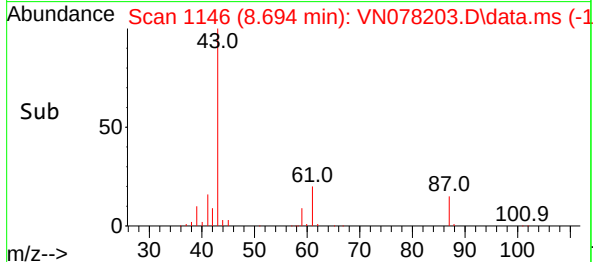
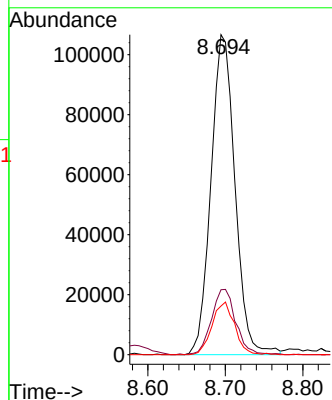
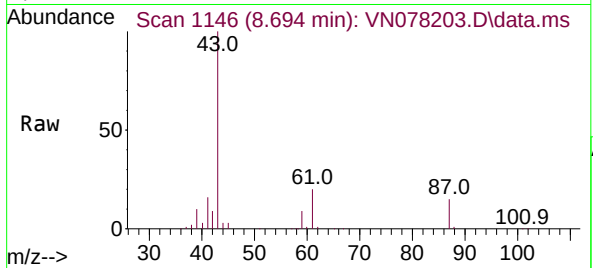




#43
Isopropyl Acetate
Concen: 20.099 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN078203.D
Acq: 14 Jun 2023 14:08

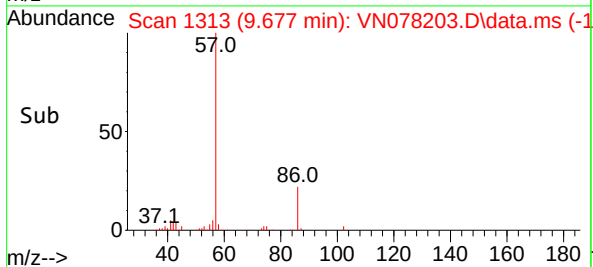
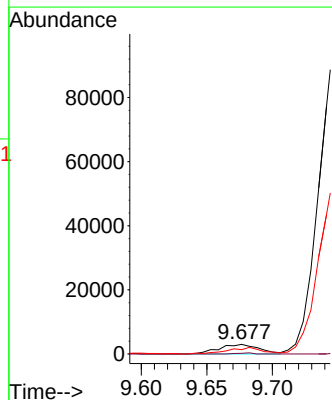
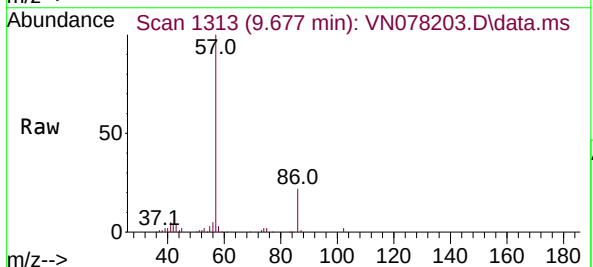
Instrument :
MSVOA_N
ClientSampleId :
PNNL-B-0609-1

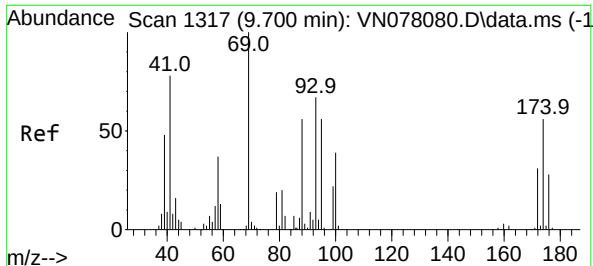
Tgt Ion: 43 Resp: 230041
Ion Ratio Lower Upper
43 100
61 20.6 24.7 37.1#
87 15.4 14.6 21.8



#48
Methyl methacrylate
Concen: 1.336 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.012 min
Lab File: VN078203.D
Acq: 14 Jun 2023 14:08

Tgt Ion: 41 Resp: 6415
Ion Ratio Lower Upper
41 100
69 3.7 90.4 135.6#
39 58.1 54.6 81.8





#49

1,4-Dioxane

Concen: 2.566 ug/l

RT: 9.753 min Scan# 1326

Delta R.T. 0.053 min

Lab File: VN078203.D

Acq: 14 Jun 2023 14:08

Instrument :

MSVOA_N

ClientSampleId :

PNNL-B-0609-1

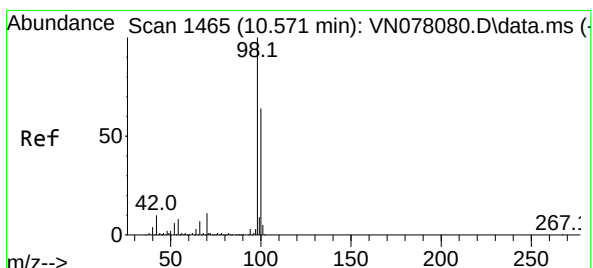
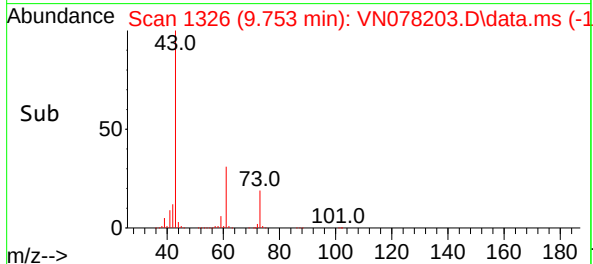
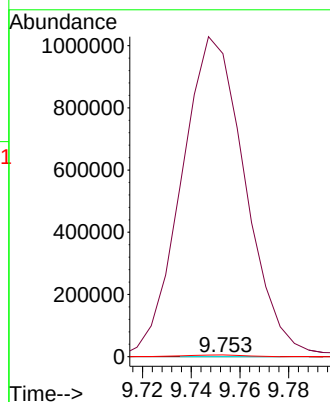
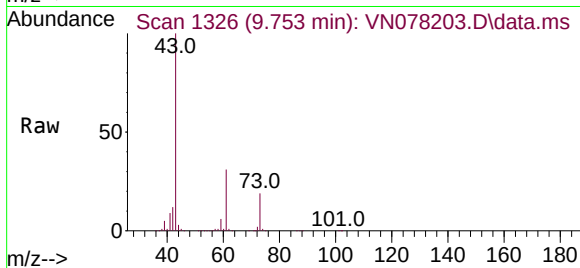
Tgt Ion: 88 Resp: 259

Ion Ratio Lower Upper

88 100

43 736048.6 17.0 25.6#

58 3913.5 47.0 70.4#



#50

Toluene-d8

Concen: 49.636 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VN078203.D

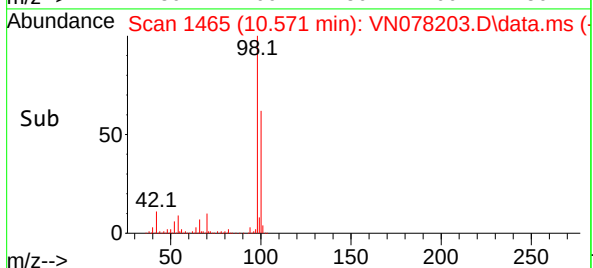
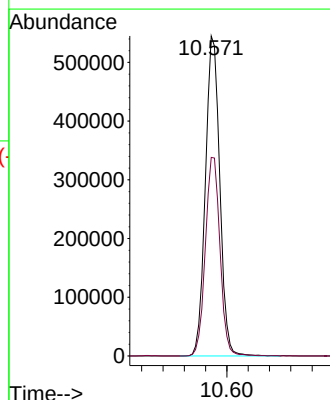
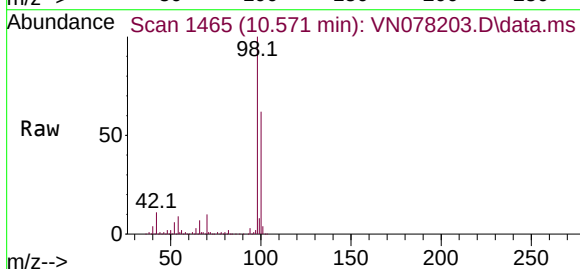
Acq: 14 Jun 2023 14:08

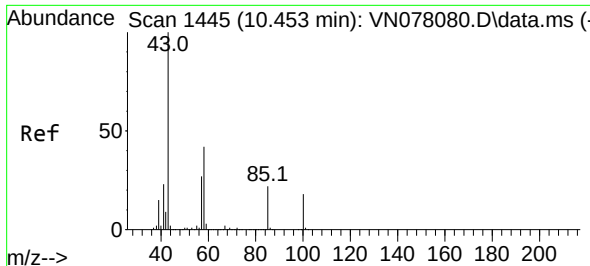
Tgt Ion: 98 Resp: 1021990

Ion Ratio Lower Upper

98 100

100 63.3 52.0 78.0

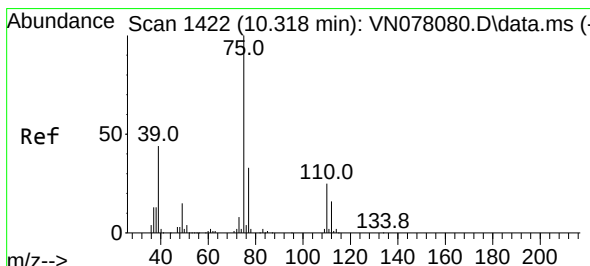
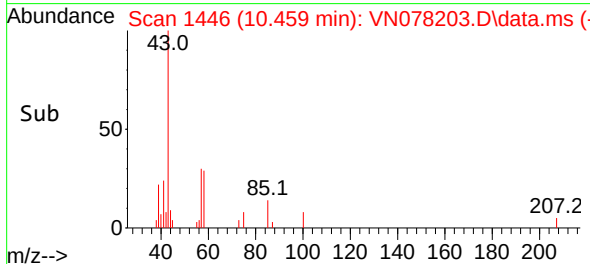
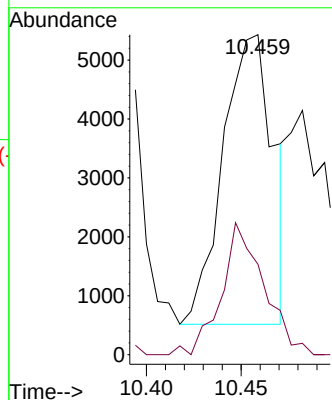
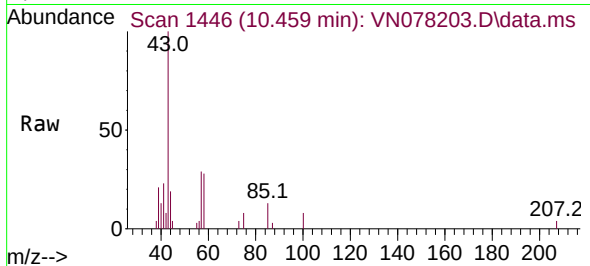




#51
4-Methyl-2-Pentanone
Concen: 1.508 ug/l
RT: 10.459 min Scan# 1445
Delta R.T. 0.006 min
Lab File: VN078203.D
Acq: 14 Jun 2023 14:08

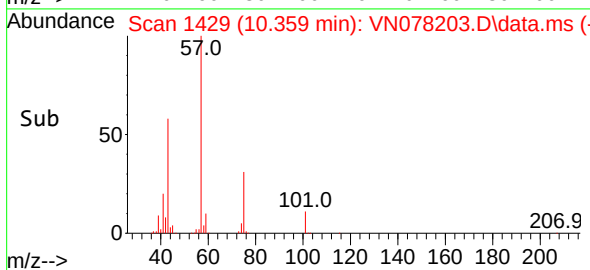
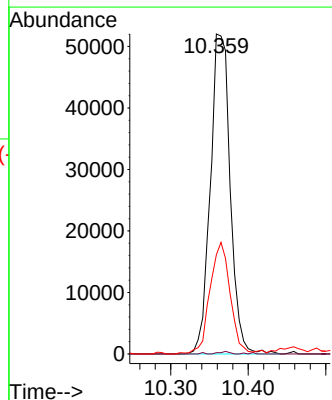
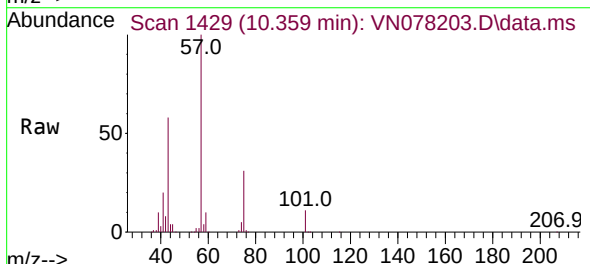
Instrument :
MSVOA_N
ClientSampleId :
PNNL-B-0609-1

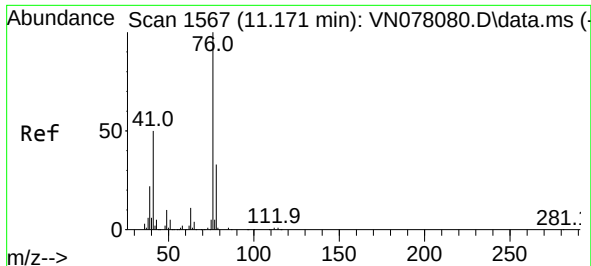
Tgt Ion: 43 Resp: 9087
Ion Ratio Lower Upper
43 100
58 38.4 36.6 54.8



#54
cis-1,3-Dichloropropene
Concen: 10.353 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.041 min
Lab File: VN078203.D
Acq: 14 Jun 2023 14:08

Tgt Ion: 75 Resp: 92795
Ion Ratio Lower Upper
75 100
77 0.4 26.1 39.1#
39 30.6 31.6 47.4#





#57

1,3-Dichloropropane

Concen: 1.146 ug/l

RT: 11.212 min Scan# 11

Delta R.T. 0.041 min

Lab File: VN078203.D

Acq: 14 Jun 2023 14:08

Instrument :

MSVOA_N

ClientSampleId :

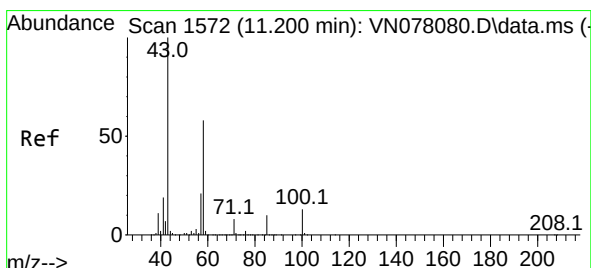
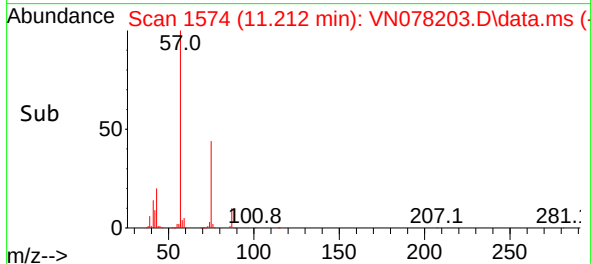
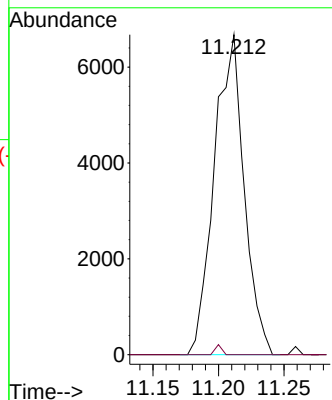
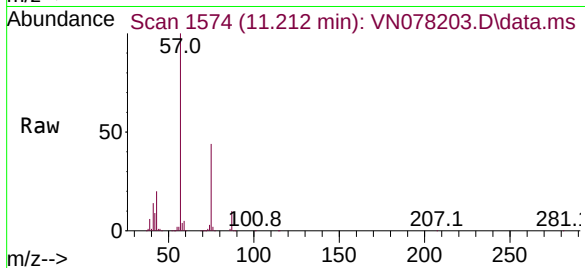
PNNL-B-0609-1

Tgt Ion: 76 Resp: 10564

Ion Ratio Lower Upper

76 100

78 0.7 26.1 39.1#



#59

2-Hexanone

Concen: 46.890 ug/l

RT: 11.176 min Scan# 1568

Delta R.T. -0.024 min

Lab File: VN078203.D

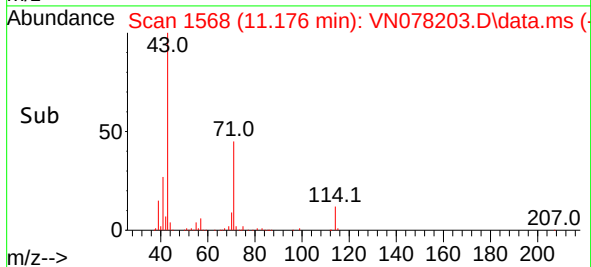
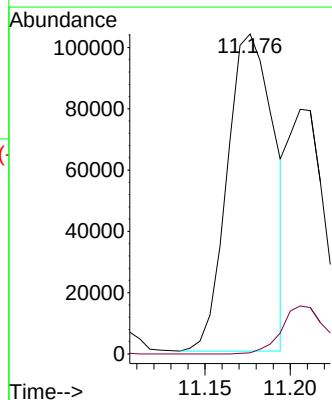
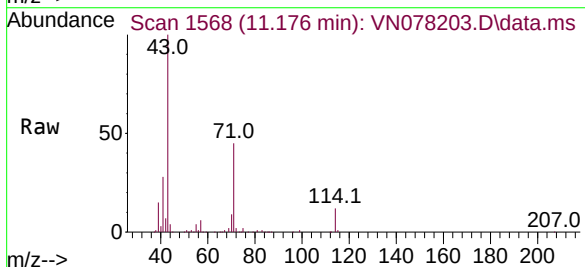
Acq: 14 Jun 2023 14:08

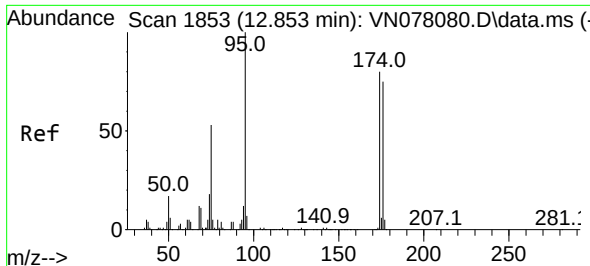
Tgt Ion: 43 Resp: 196779

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

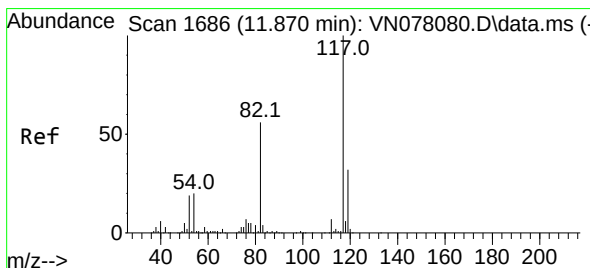
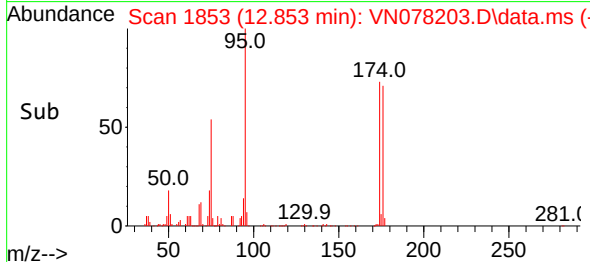
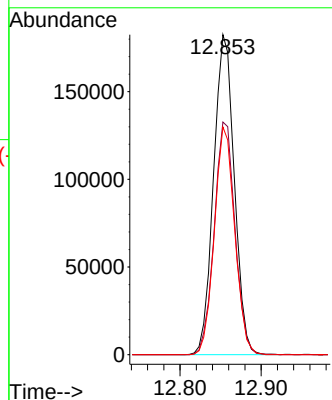
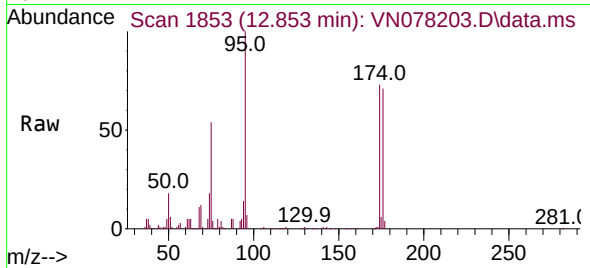




#62
4-Bromofluorobenzene
Concen: 50.497 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN078203.D
Acq: 14 Jun 2023 14:08

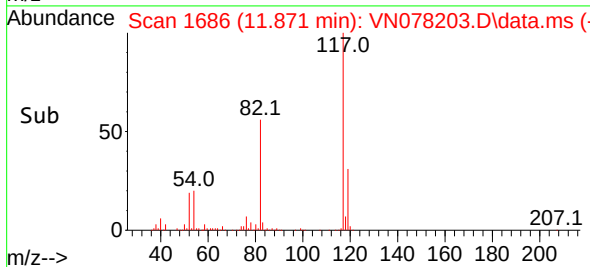
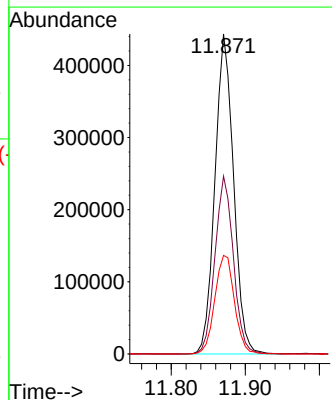
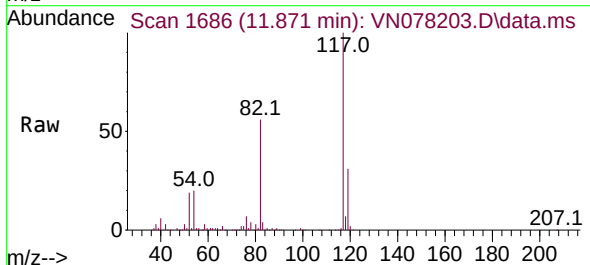
Instrument :
MSVOA_N
ClientSampleId :
PNNL-B-0609-1

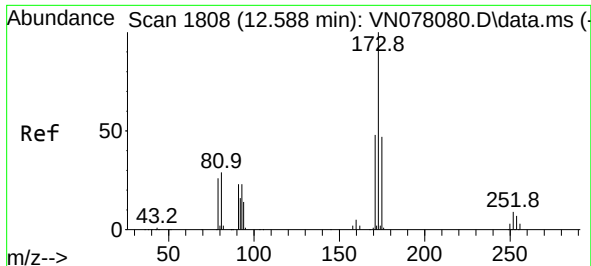
Tgt Ion: 95 Resp: 323225
Ion Ratio Lower Upper
95 100
174 73.1 0.0 143.8
176 69.9 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN078203.D
Acq: 14 Jun 2023 14:08

Tgt Ion: 117 Resp: 773080
Ion Ratio Lower Upper
117 100
82 55.6 44.0 66.0
119 30.8 25.6 38.4

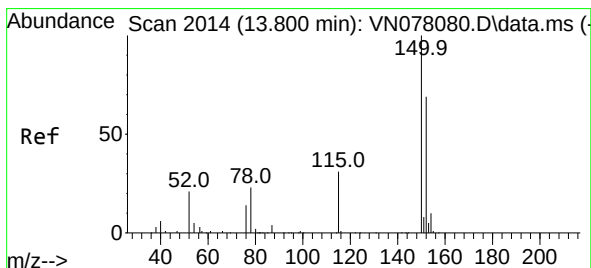
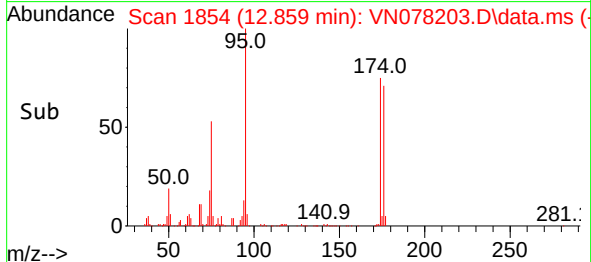
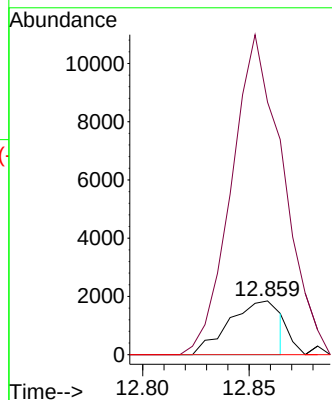
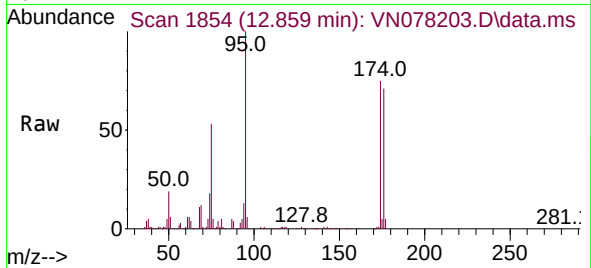




#71
Bromoform
Concen: 0.787 ug/l
RT: 12.859 min Scan# 1808
Delta R.T. 0.271 min
Lab File: VN078203.D
Acq: 14 Jun 2023 14:08

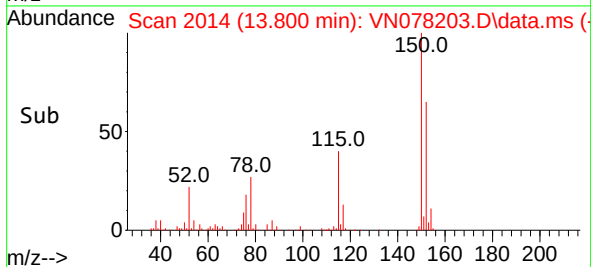
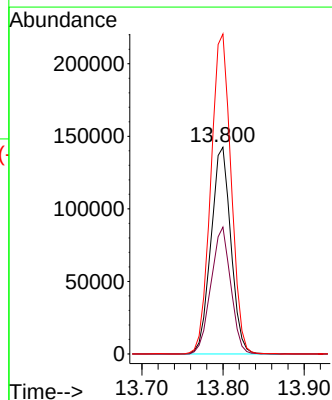
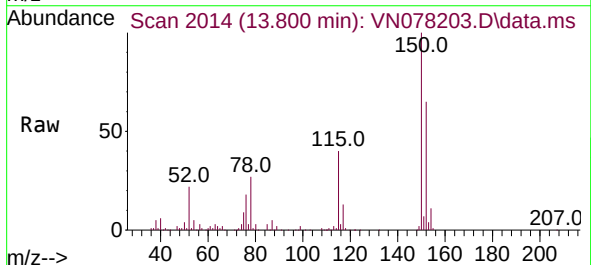
Instrument :
MSVOA_N
ClientSampleId :
PNNL-B-0609-1

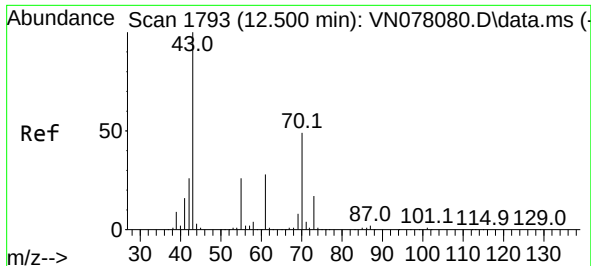
Tgt Ion:173 Resp: 3092
Ion Ratio Lower Upper
173 100
175 520.5 24.3 73.0#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 2014
Delta R.T. 0.000 min
Lab File: VN078203.D
Acq: 14 Jun 2023 14:08

Tgt Ion:152 Resp: 242729
Ion Ratio Lower Upper
152 100
115 60.8 32.3 96.8
150 157.2 0.0 355.8

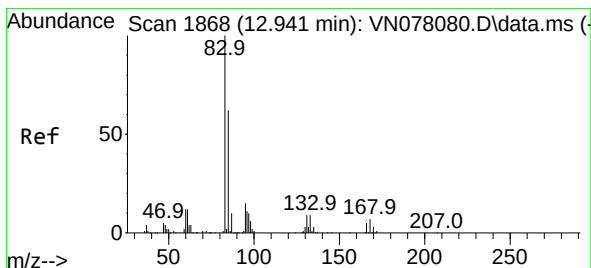
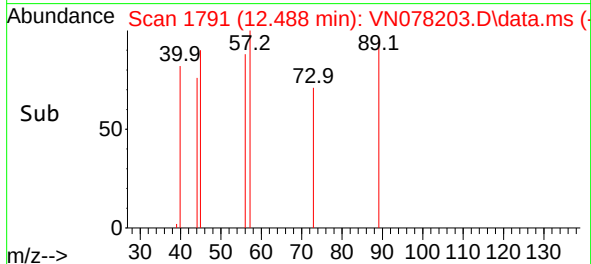
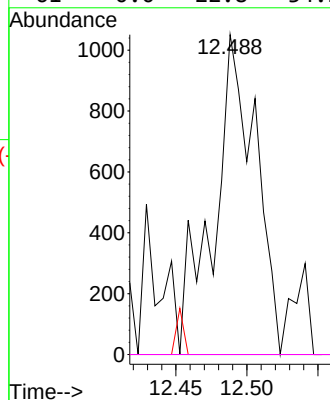
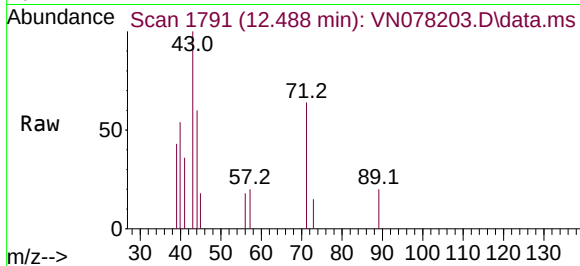




#74
N-amy1 acetate
Concen: 0.284 ug/l
RT: 12.488 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN078203.D
Acq: 14 Jun 2023 14:08

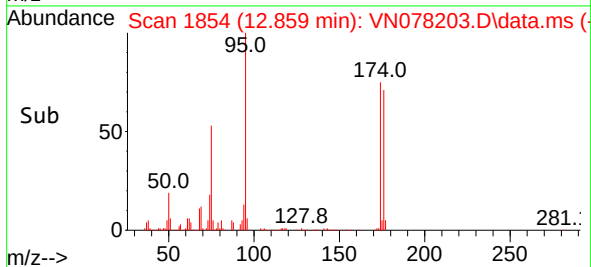
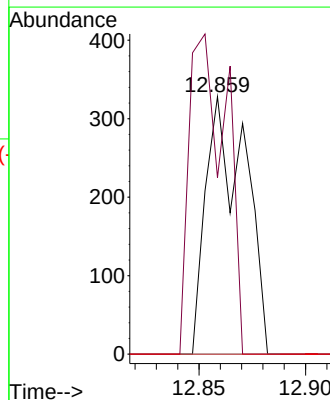
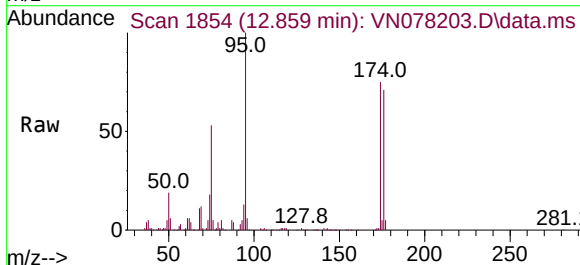
Instrument :
MSVOA_N
ClientSampleId :
PNNL-B-0609-1

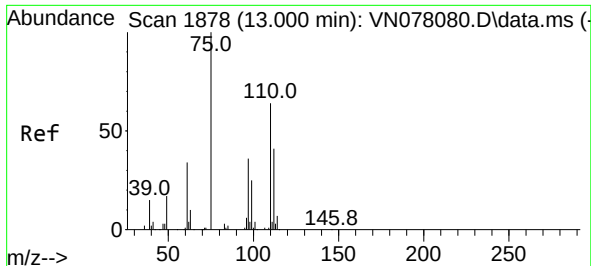
Tgt Ion: 43	Resp:	2150
Ion	Ratio	Lower Upper
43	100	
70	0.0	43.4 65.2#
55	0.0	21.4 32.0#
61	0.0	22.8 34.2#



#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.859 min Scan# 1854
Delta R.T. -0.082 min
Lab File: VN078203.D
Acq: 14 Jun 2023 14:08

Tgt Ion: 83	Resp:	421
Ion	Ratio	Lower Upper
83	100	
131	116.2	5.0 15.0#
85	0.0	31.9 95.7#

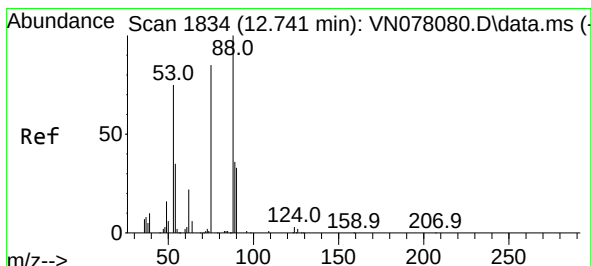
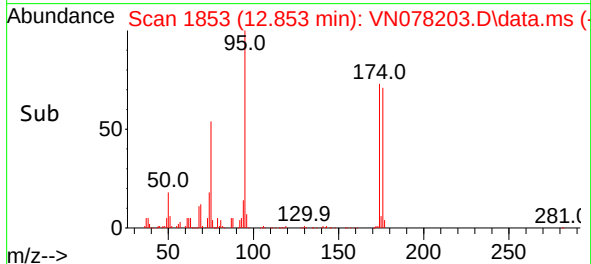
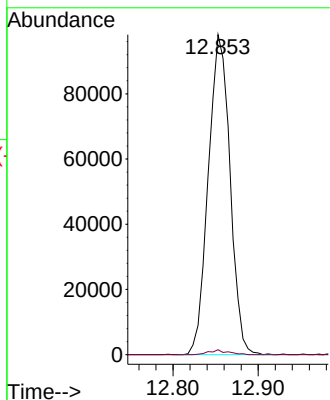
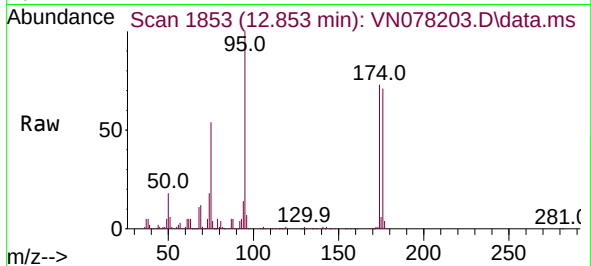




#76
1,2,3-Trichloropropane
Concen: 30.301 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078203.D
Acq: 14 Jun 2023 14:08

Instrument :
MSVOA_N
ClientSampleId :
PNNL-B-0609-1

Tgt Ion: 75 Resp: 173872
Ion Ratio Lower Upper
75 100
77 1.3 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 93.094 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN078203.D
Acq: 14 Jun 2023 14:08

Tgt Ion: 75 Resp: 173872
Ion Ratio Lower Upper
75 100
53 0.1 67.4 101.2#
89 0.1 38.8 58.2#

