

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN030923\
 Data File : VN076910.D
 Acq On : 09 Mar 2023 18:28
 Operator : JC\MD
 Sample : PB151321ZHE#03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB151321ZHE#03

Quant Time: Mar 10 03:49:34 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N030623W.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 07 08:45:33 2023
 Response via : Initial Calibration

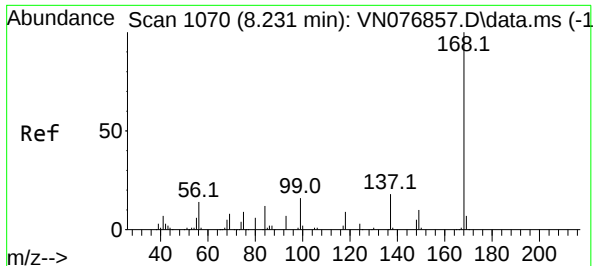
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.231	168	421739	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	727396	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.866	117	640369	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	270045	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.584	65	290346	49.104	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	98.200%		
35) Dibromofluoromethane	8.172	113	218152	47.941	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	95.880%		
50) Toluene-d8	10.572	98	869365	49.589	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	99.180%		
62) 4-Bromofluorobenzene	12.854	95	309297	50.914	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	101.820%		
Target Compounds						Qvalue
5) Bromomethane	2.990	94	1042	0.268	ug/l #	70
6) Chloroethane	3.090	64	272	Below Cal	#	42
11) Tert butyl alcohol	5.531	59	1462	1.665	ug/l #	72
16) Acetone	4.443	43	44202	17.126	ug/l #	86
18) Methyl Acetate	5.054	43	4566	0.516	ug/l #	67
20) Methylene Chloride	5.296	84	19418	3.225	ug/l	93
25) 2-Butanone	7.495	43	6722	1.783	ug/l	91
29) Tetrahydrofuran	7.854	42	1092	0.449	ug/l #	40
31) Cyclohexane	8.231	56	9975	0.999	ug/l #	28
36) 1,1-Dichloropropene	8.231	75	34920	4.775	ug/l #	48
37) Ethyl Acetate	7.572	43	81370	10.839	ug/l	98
38) Carbon Tetrachloride	8.231	117	49005	6.596	ug/l #	16
42) 1,2-Dichloroethane	8.678	62	2417	0.311	ug/l #	71
43) Isopropyl Acetate	8.695	43	402809	35.050	ug/l #	81
48) Methyl methacrylate	9.678	41	10051	1.800	ug/l #	27
49) 1,4-Dioxane	9.742	88	539	5.266	ug/l #	1
51) 4-Methyl-2-Pentanone	10.448	43	27115	3.741	ug/l #	66
53) t-1,3-Dichloropropene	10.730	75	2742	0.376	ug/l #	43
54) cis-1,3-Dichloropropene	10.360	75	142234	16.993	ug/l #	67
57) 1,3-Dichloropropane	11.207	76	18115	1.977	ug/l #	43
59) 2-Hexanone	11.172	43	312059	59.408	ug/l #	17
71) Bromoform	12.848	173	808	0.237	ug/l #	1
74) N-amyl acetate	12.495	43	4153	0.451	ug/l #	39
76) 1,2,3-Trichloropropane	12.848	75	162836	23.910	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.848	75	162836	78.854	ug/l #	15
95) Naphthalene	15.642	128	3836	0.248	ug/l #	88

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

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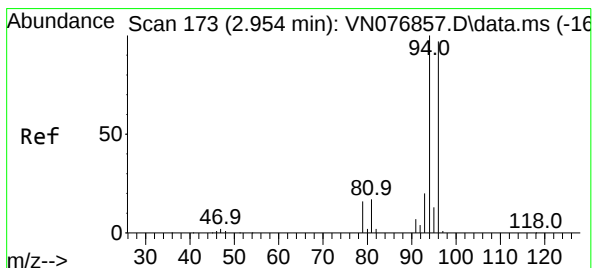
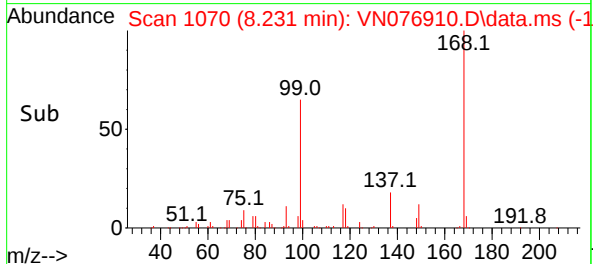
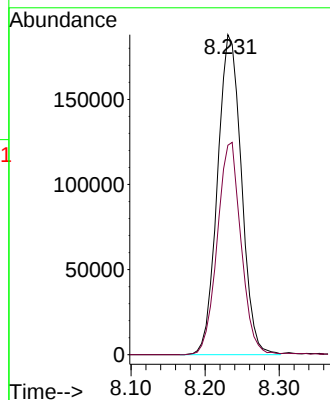
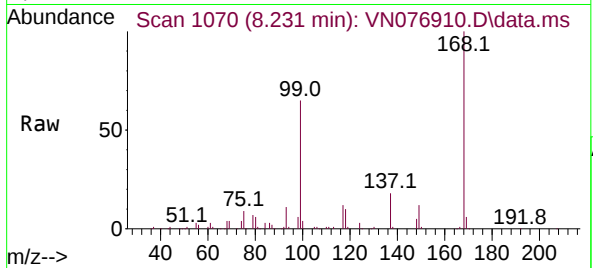




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.231 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN076910.D
Acq: 09 Mar 2023 18:28

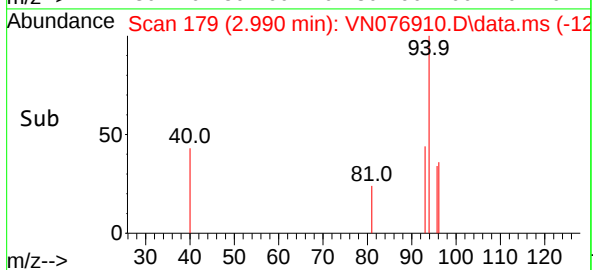
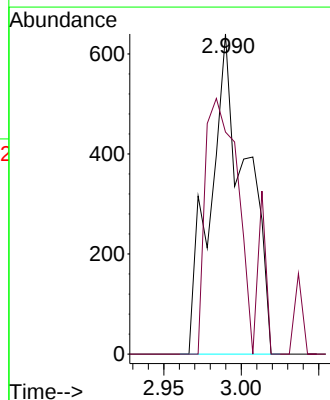
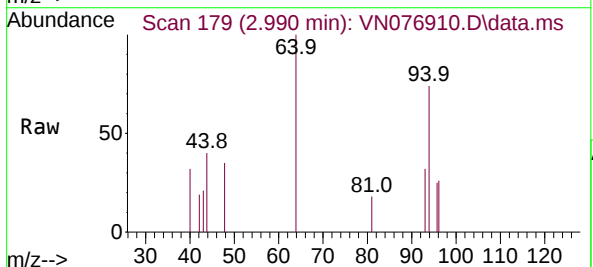
Instrument :
MSVOA_N
ClientSampleId :
PB151321ZHE#03

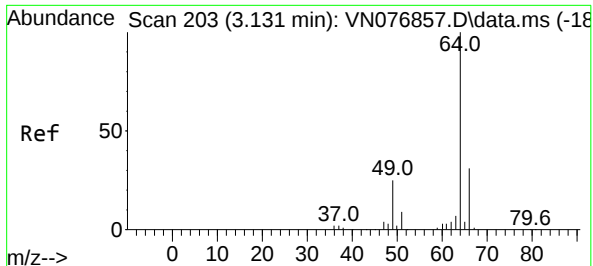
Tgt Ion:168 Resp: 421739
Ion Ratio Lower Upper
168 100
99 65.4 48.6 73.0



#5
Bromomethane
Concen: 0.268 ug/l
RT: 2.990 min Scan# 179
Delta R.T. 0.036 min
Lab File: VN076910.D
Acq: 09 Mar 2023 18:28

Tgt Ion: 94 Resp: 1042
Ion Ratio Lower Upper
94 100
96 69.4 79.0 118.6#

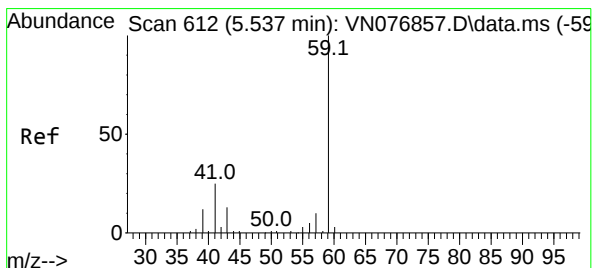
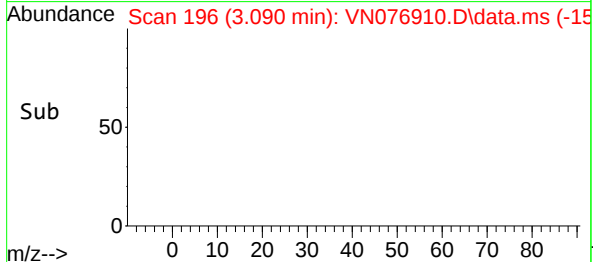
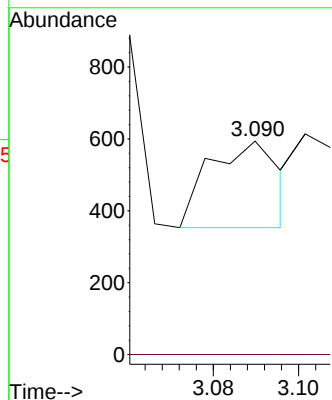
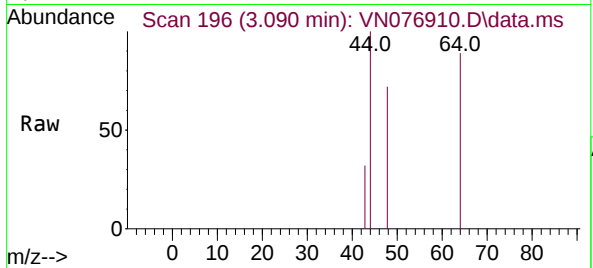




#6
Chloroethane
Concen: Below Cal
RT: 3.090 min Scan# 196
Delta R.T. -0.041 min
Lab File: VN076910.D
Acq: 09 Mar 2023 18:28

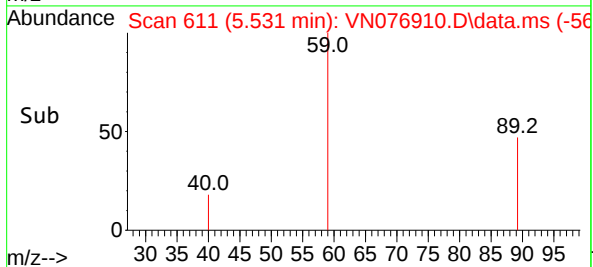
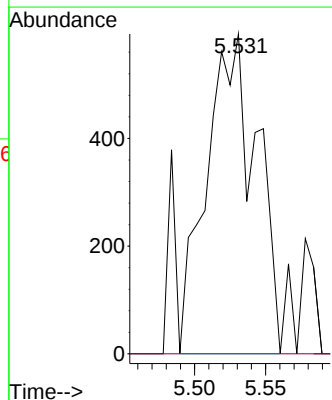
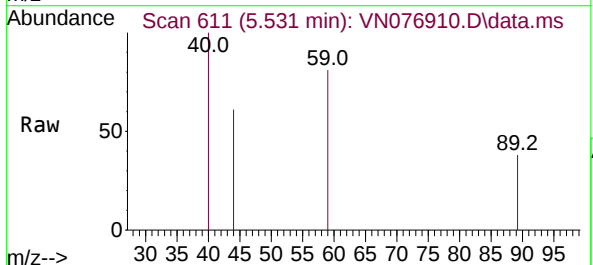
Instrument :
MSVOA_N
ClientSampleId :
PB151321ZHE#03

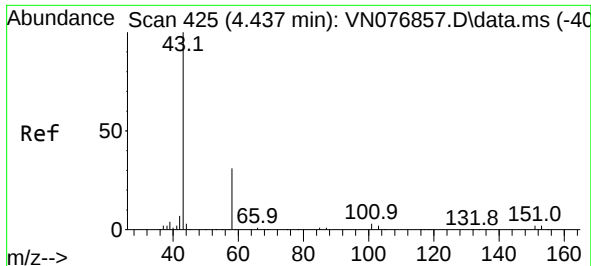
Tgt Ion: 64 Resp: 272
Ion Ratio Lower Upper
64 100
66 0.0 26.2 39.4#



#11
Tert butyl alcohol
Concen: 1.665 ug/l
RT: 5.531 min Scan# 611
Delta R.T. -0.006 min
Lab File: VN076910.D
Acq: 09 Mar 2023 18:28

Tgt Ion: 59 Resp: 1462
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#





#16

Acetone

Concen: 17.126 ug/l

RT: 4.443 min Scan# 41

Delta R.T. 0.006 min

Lab File: VN076910.D

Acq: 09 Mar 2023 18:28

Instrument :

MSVOA_N

ClientSampleId :

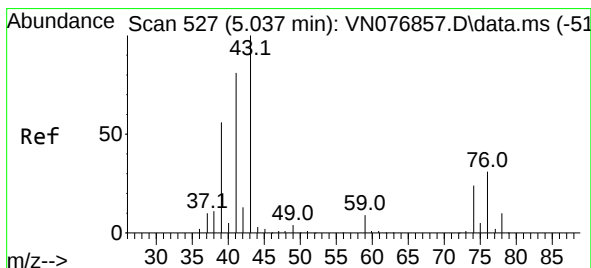
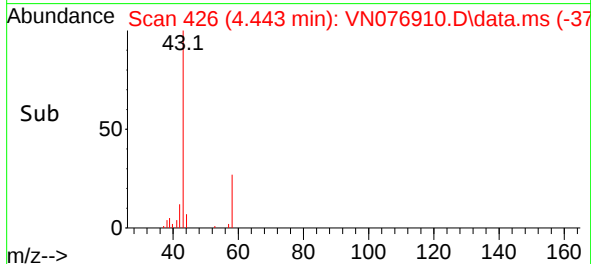
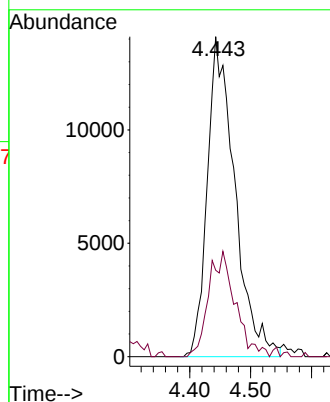
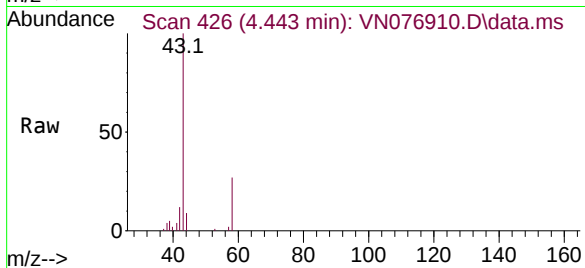
PB151321ZHE#03

Tgt Ion: 43 Resp: 44202

Ion Ratio Lower Upper

43 100

58 27.0 28.2 42.2#



#18

Methyl Acetate

Concen: 0.516 ug/l

RT: 5.054 min Scan# 530

Delta R.T. 0.017 min

Lab File: VN076910.D

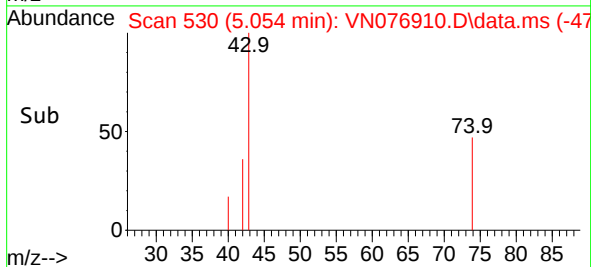
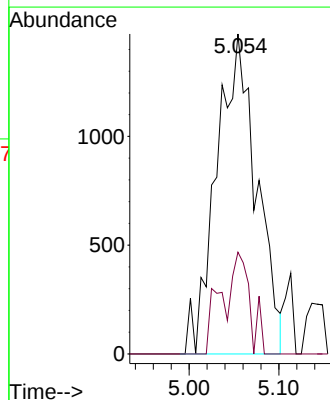
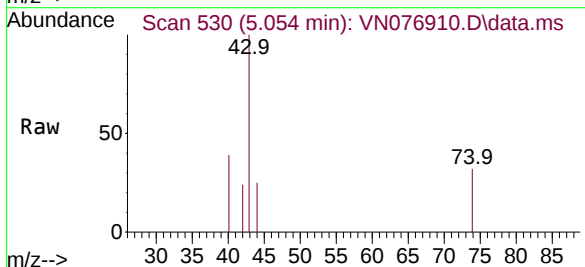
Acq: 09 Mar 2023 18:28

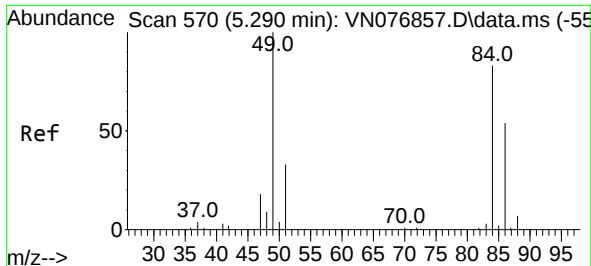
Tgt Ion: 43 Resp: 4566

Ion Ratio Lower Upper

43 100

74 14.2 25.9 38.9#

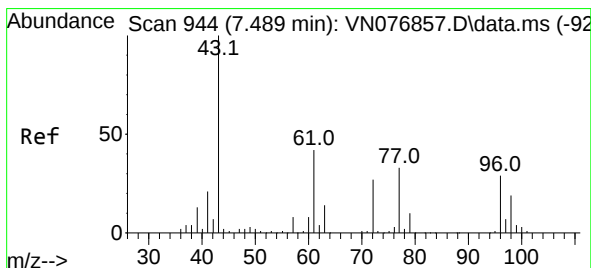
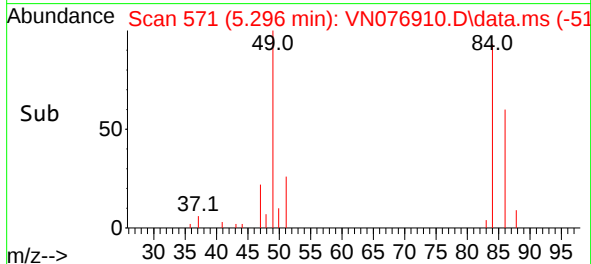
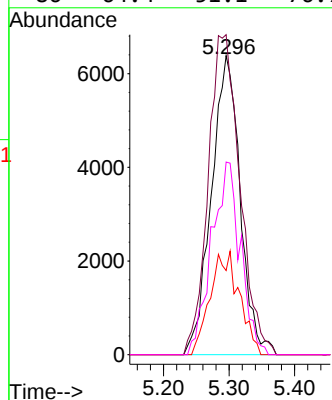
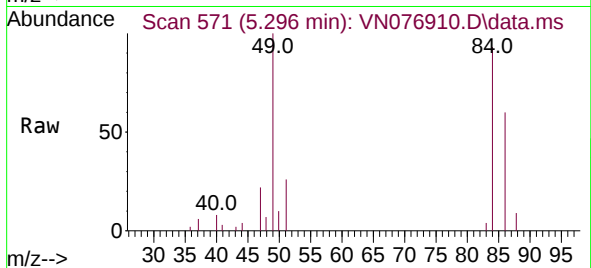




#20
Methylene Chloride
Concen: 3.225 ug/l
RT: 5.296 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN076910.D
Acq: 09 Mar 2023 18:28

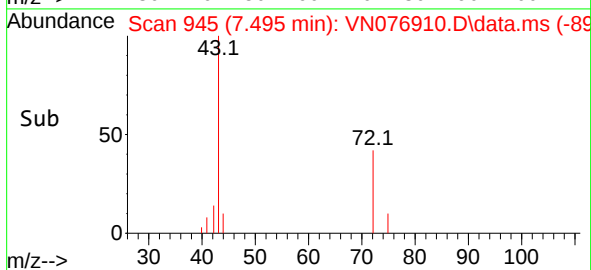
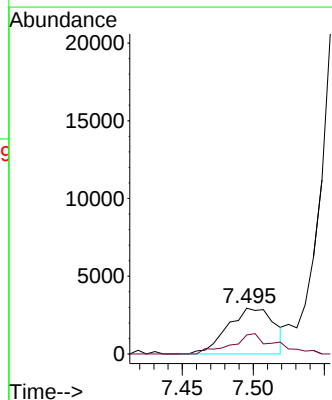
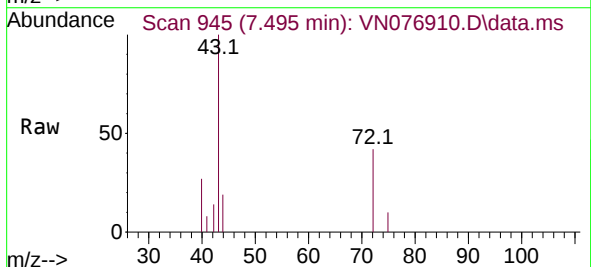
Instrument :
MSVOA_N
ClientSampleId :
PB151321ZHE#03

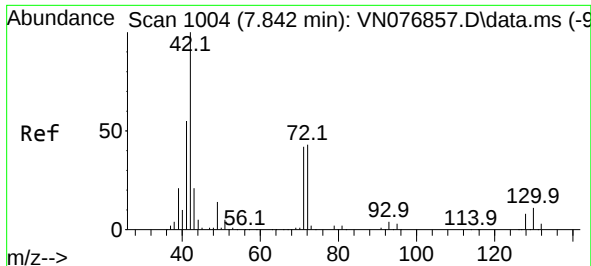
Tgt Ion: 84	Resp:	19418	
Ion	Ratio	Lower	Upper
84	100		
49	107.0	76.6	114.8
51	28.2	25.4	38.2
86	64.4	51.1	76.7



#25
2-Butanone
Concen: 1.783 ug/l
RT: 7.495 min Scan# 945
Delta R.T. 0.006 min
Lab File: VN076910.D
Acq: 09 Mar 2023 18:28

Tgt Ion: 43	Resp: 6722
Ion Ratio	Lower Upper
43 100	
72 41.6	28.8 43.2





#29

Tetrahydrofuran

Concen: 0.449 ug/l

RT: 7.854 min Scan# 1092

Delta R.T. 0.012 min

Lab File: VN076910.D

Acq: 09 Mar 2023 18:28

Instrument :

MSVOA_N

ClientSampleId :

PB151321ZHE#03

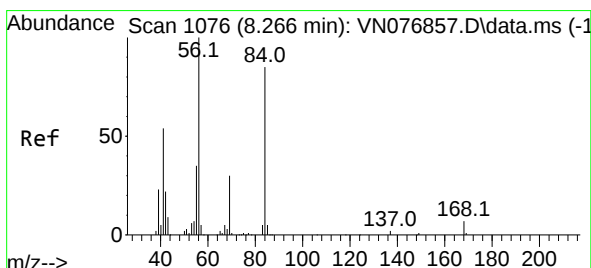
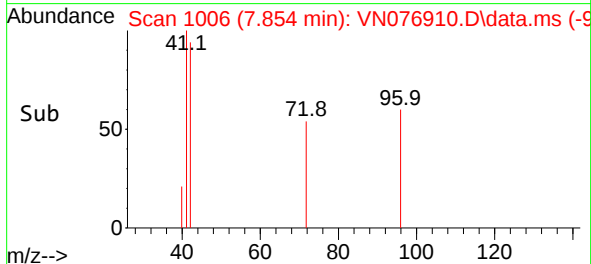
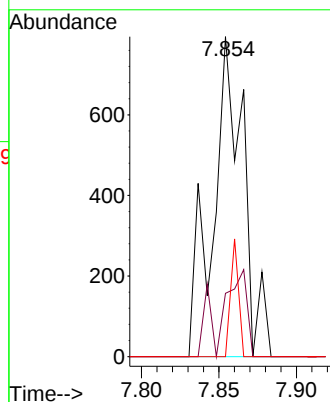
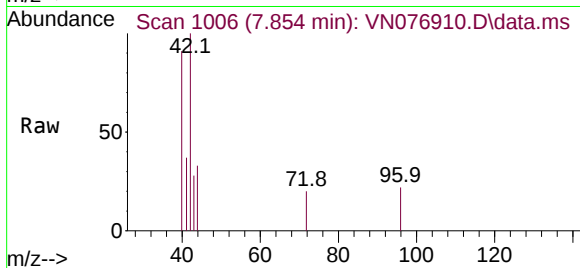
Tgt Ion: 42 Resp: 1092

Ion Ratio Lower Upper

42 100

72 17.5 48.6 73.0#

71 9.4 45.1 67.7#



#31

Cyclohexane

Concen: 0.999 ug/l

RT: 8.231 min Scan# 1070

Delta R.T. -0.035 min

Lab File: VN076910.D

Acq: 09 Mar 2023 18:28

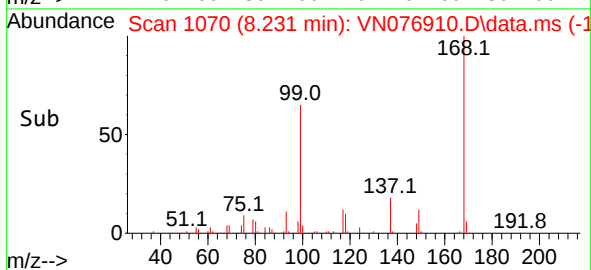
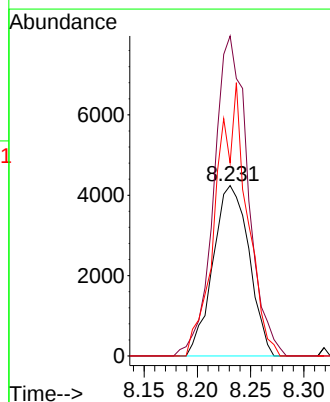
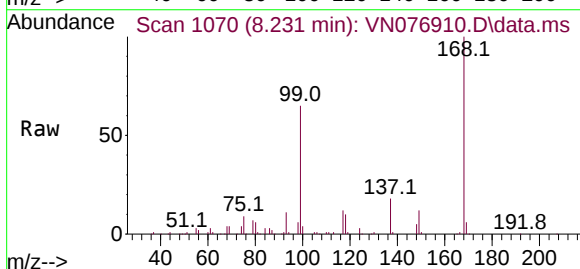
Tgt Ion: 56 Resp: 9975

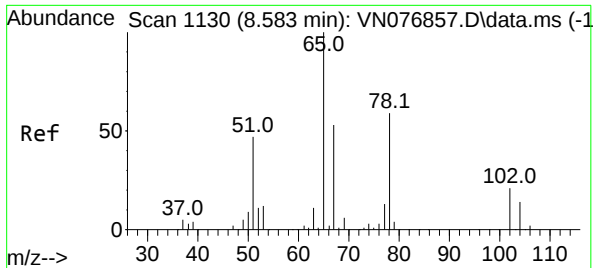
Ion Ratio Lower Upper

56 100

69 184.1 27.0 40.6#

84 113.3 82.9 124.3





#33

1,2-Dichloroethane-d4

Concen: 49.104 ug/l

RT: 8.584 min Scan# 1130

Delta R.T. 0.001 min

Lab File: VN076910.D

Acq: 09 Mar 2023 18:28

Instrument :

MSVOA_N

ClientSampleId :

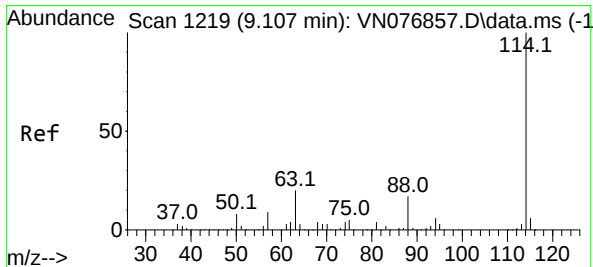
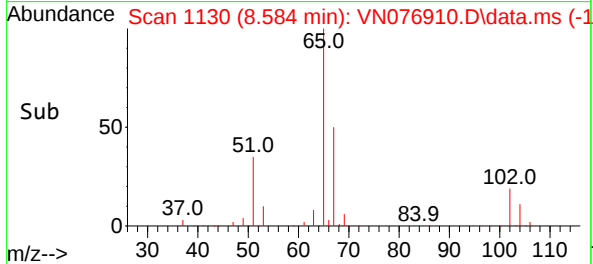
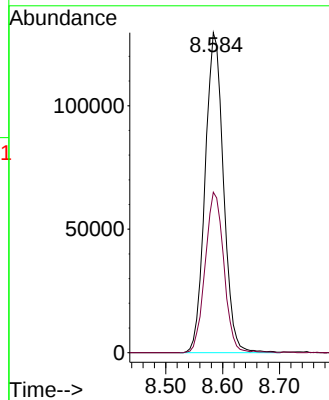
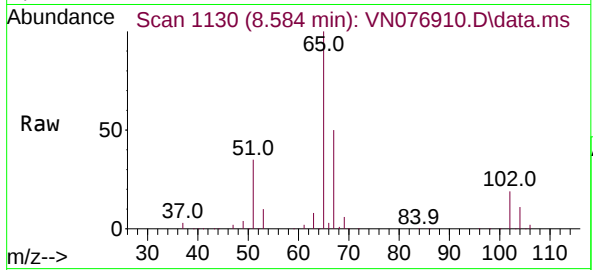
PB151321ZHE#03

Tgt Ion: 65 Resp: 290346

Ion Ratio Lower Upper

65 100

67 51.2 0.0 107.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.107 min Scan# 1219

Delta R.T. 0.000 min

Lab File: VN076910.D

Acq: 09 Mar 2023 18:28

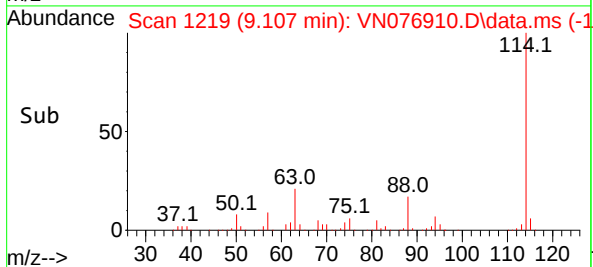
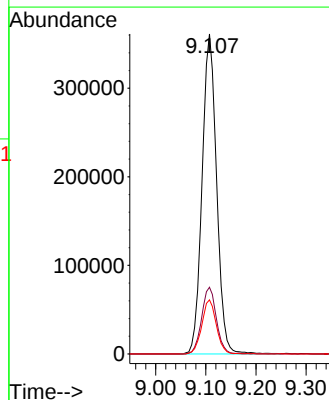
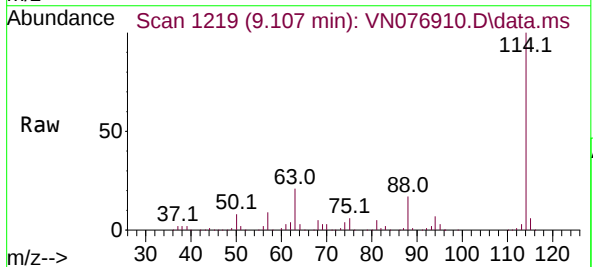
Tgt Ion: 114 Resp: 727396

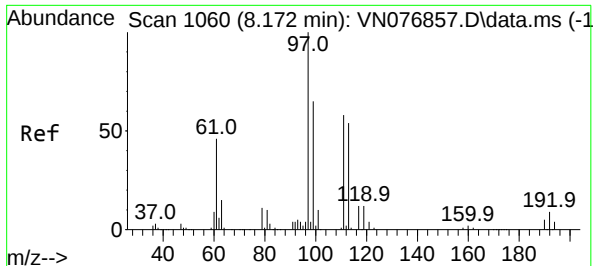
Ion Ratio Lower Upper

114 100

63 20.8 0.0 36.6

88 16.9 0.0 28.6





#35

Dibromofluoromethane

Concen: 47.941 ug/l

RT: 8.172 min Scan# 1060

Delta R.T. -0.000 min

Lab File: VN076910.D

Acq: 09 Mar 2023 18:28

Instrument :

MSVOA_N

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PB151321ZHE#03

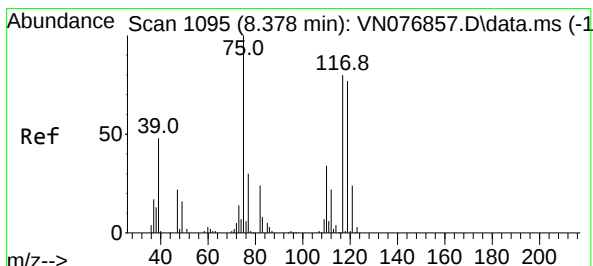
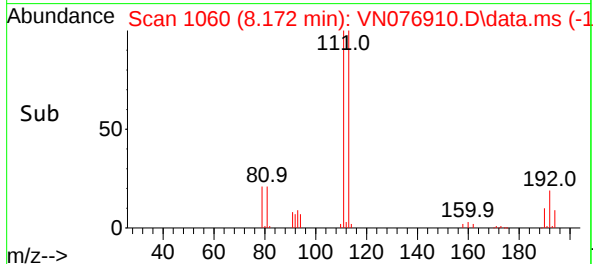
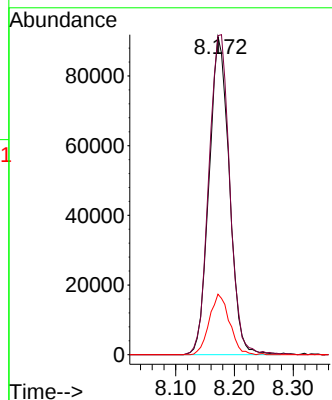
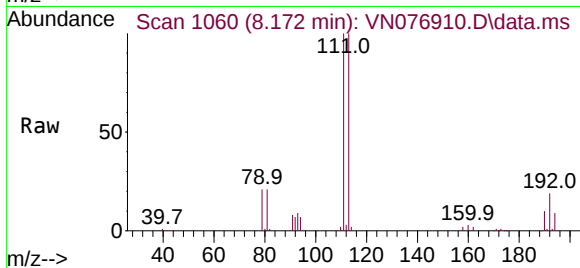
Tgt Ion:113 Resp: 218152

Ion Ratio Lower Upper

113 100

111 104.1 81.8 122.8

192 19.0 13.9 20.9



#36

1,1-Dichloropropene

Concen: 4.775 ug/l

RT: 8.231 min Scan# 1070

Delta R.T. -0.147 min

Lab File: VN076910.D

Acq: 09 Mar 2023 18:28

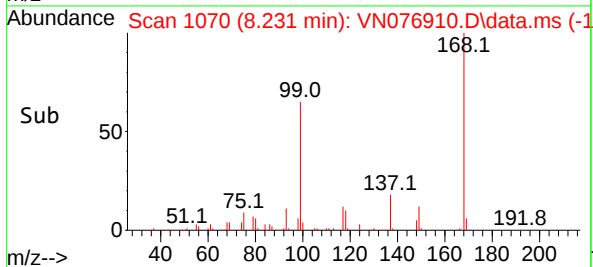
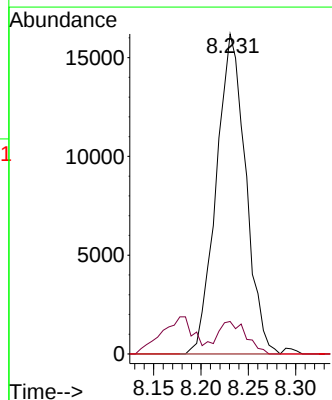
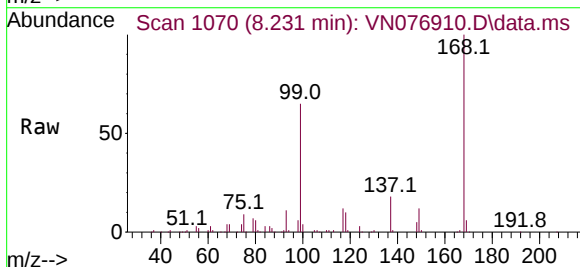
Tgt Ion: 75 Resp: 34920

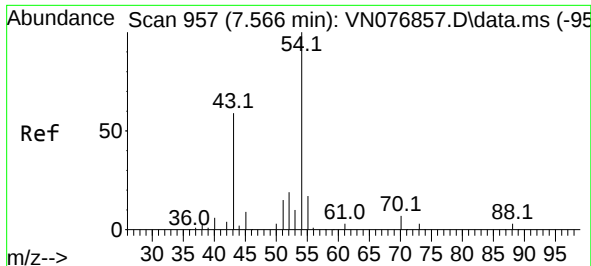
Ion Ratio Lower Upper

75 100

110 9.2 18.9 56.9#

77 0.0 24.9 37.3#





#37

Ethyl Acetate

Concen: 10.839 ug/l

RT: 7.572 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN076910.D

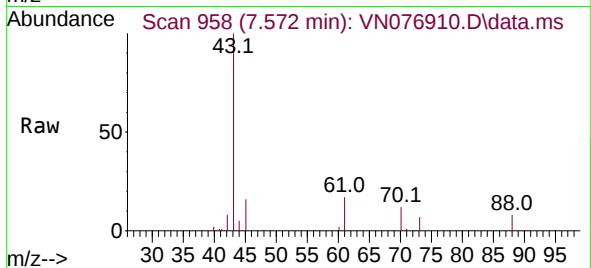
Acq: 09 Mar 2023 18:28

Instrument :

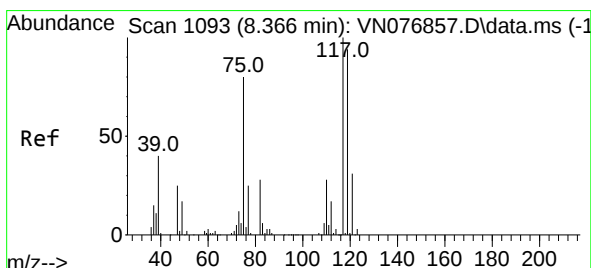
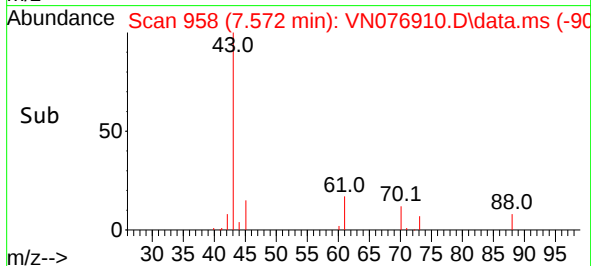
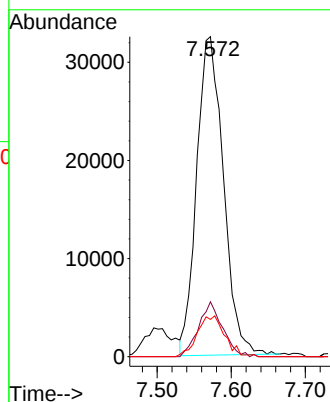
MSVOA_N

ClientSampleId :

PB151321ZHE#03



Tgt Ion:	43	Resp:	81370
Ion	Ratio	Lower	Upper
43	100		
61	15.5	13.5	20.3
70	13.2	11.0	16.6



#38

Carbon Tetrachloride

Concen: 6.596 ug/l

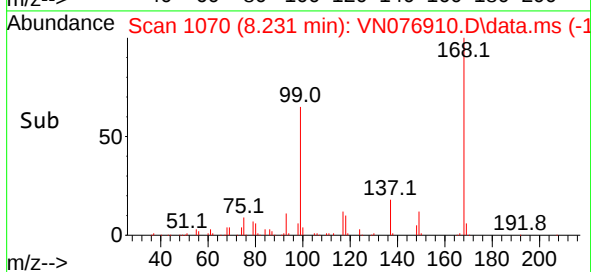
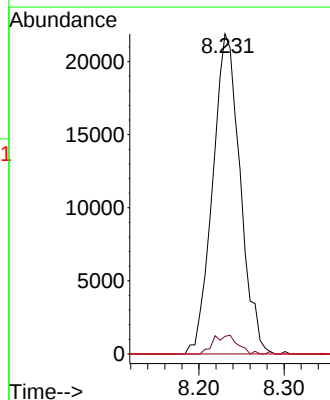
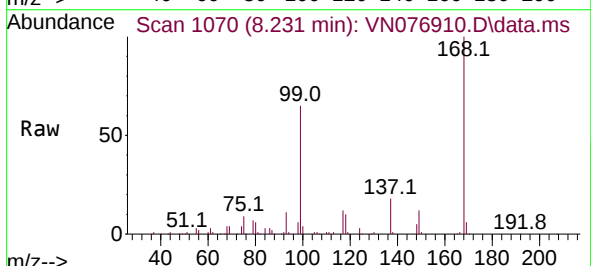
RT: 8.231 min Scan# 1070

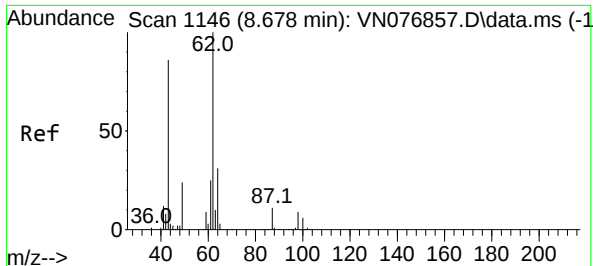
Delta R.T. -0.135 min

Lab File: VN076910.D

Acq: 09 Mar 2023 18:28

Tgt Ion:	117	Resp:	49005
Ion	Ratio	Lower	Upper
117	100		
119	5.5	76.9	115.3#
121	0.0	23.2	34.8#





#42

1,2-Dichloroethane

Concen: 0.311 ug/l

RT: 8.678 min Scan# 1146

Delta R.T. -0.000 min

Lab File: VN076910.D

Acq: 09 Mar 2023 18:28

Instrument :

MSVOA_N

ClientSampleId :

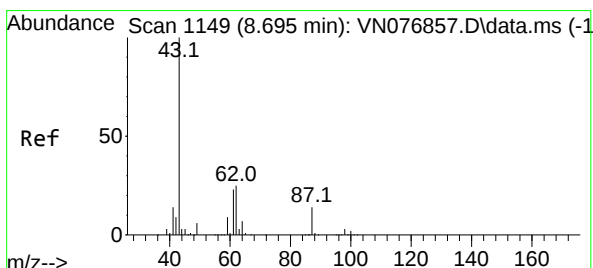
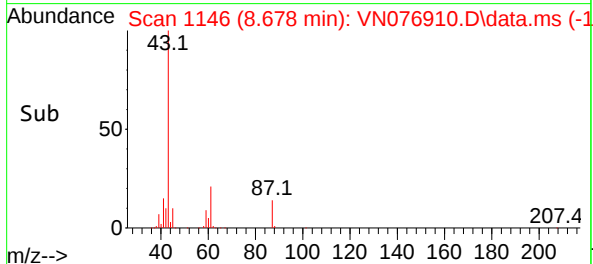
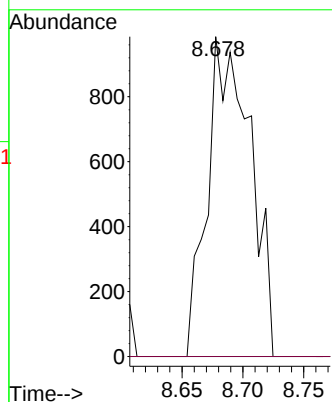
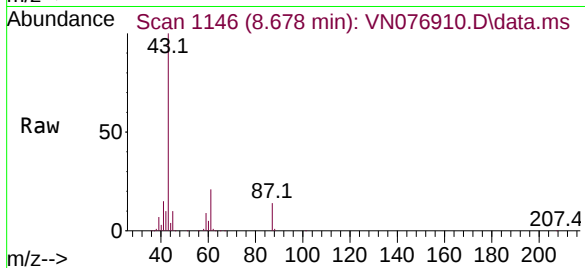
PB151321ZHE#03

Tgt Ion: 62 Resp: 2417

Ion Ratio Lower Upper

62 100

98 0.0 0.0 21.8



#43

Isopropyl Acetate

Concen: 35.050 ug/l

RT: 8.695 min Scan# 1149

Delta R.T. 0.000 min

Lab File: VN076910.D

Acq: 09 Mar 2023 18:28

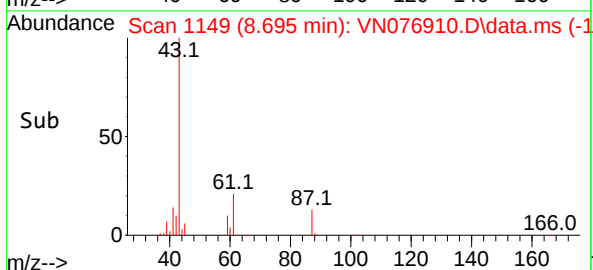
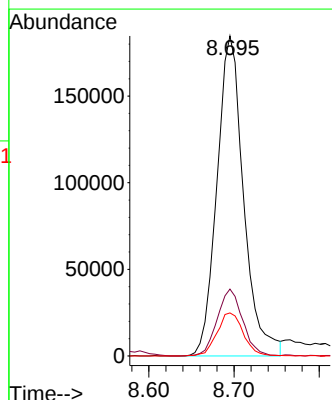
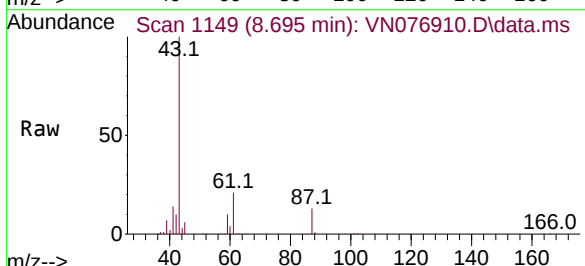
Tgt Ion: 43 Resp: 402809

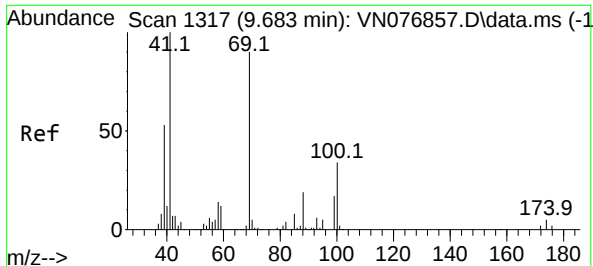
Ion Ratio Lower Upper

43 100

61 19.9 26.2 39.2#

87 13.2 14.8 22.2#

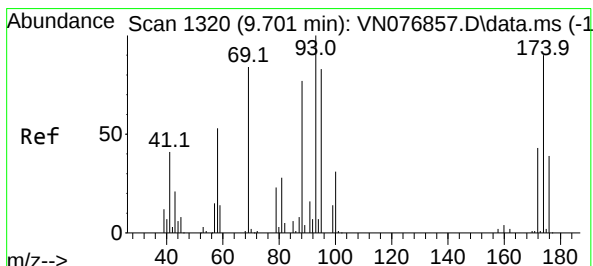
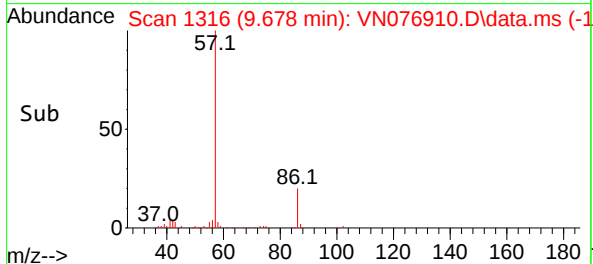
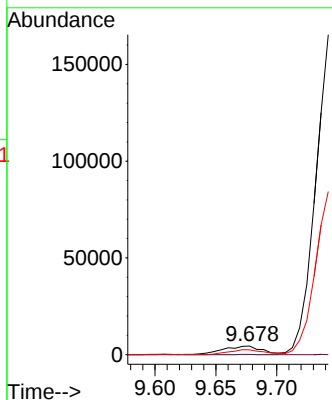
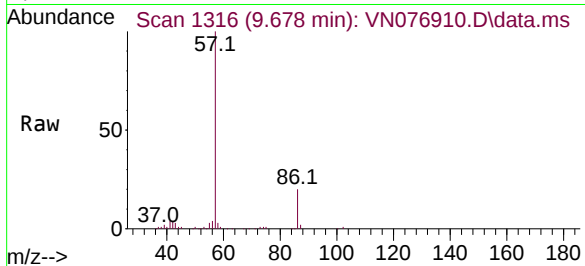




#48
Methyl methacrylate
Concen: 1.800 ug/l
RT: 9.678 min Scan# 1316
Delta R.T. -0.005 min
Lab File: VN076910.D
Acq: 09 Mar 2023 18:28

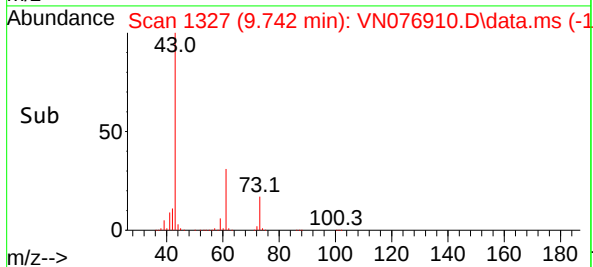
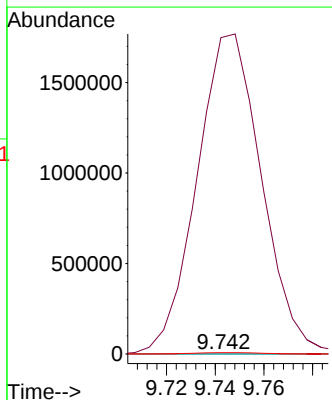
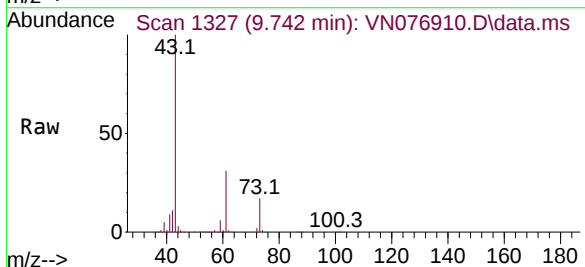
Instrument :
MSVOA_N
ClientSampleId :
PB151321ZHE#03

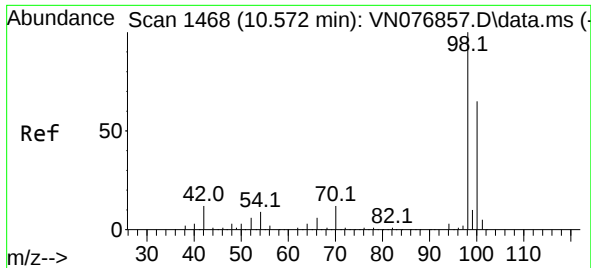
Tgt Ion: 41 Resp: 10051
Ion Ratio Lower Upper
41 100
69 1.3 92.6 139.0#
39 53.1 51.4 77.0



#49
1,4-Dioxane
Concen: 5.266 ug/l
RT: 9.742 min Scan# 1327
Delta R.T. 0.041 min
Lab File: VN076910.D
Acq: 09 Mar 2023 18:28

Tgt Ion: 88 Resp: 539
Ion Ratio Lower Upper
88 100
43 611053.6 15.3 22.9#
58 2650.5 47.6 71.4#

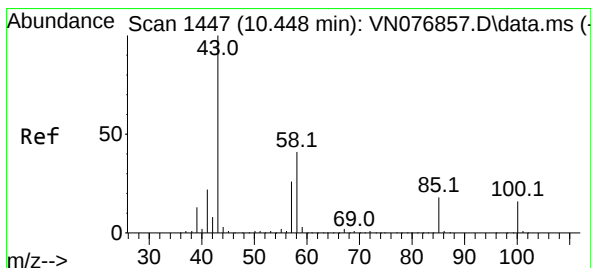
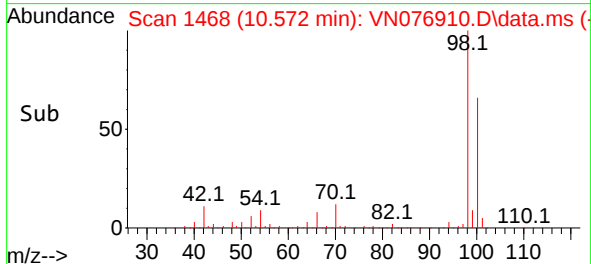
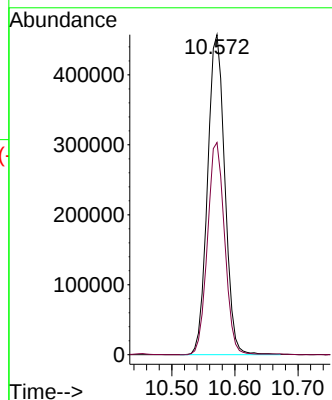
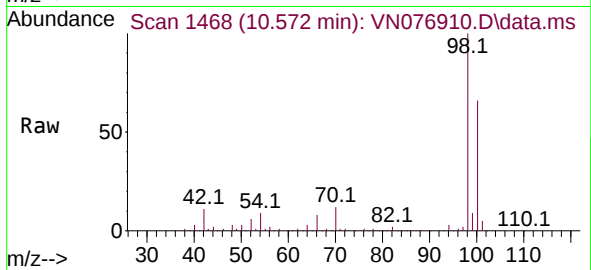




#50
Toluene-d8
Concen: 49.589 ug/l
RT: 10.572 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VN076910.D
Acq: 09 Mar 2023 18:28

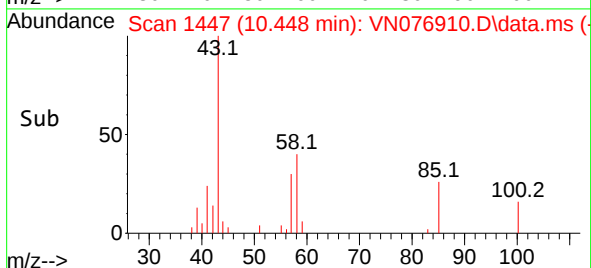
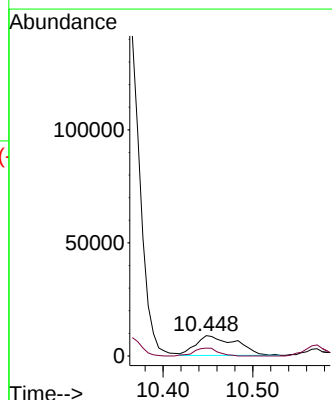
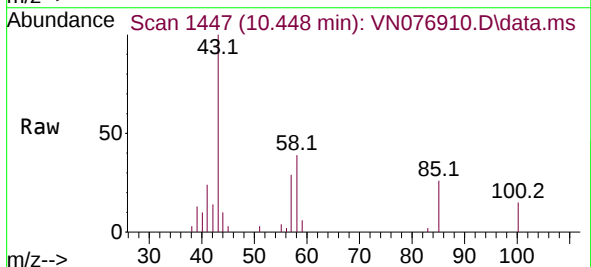
Instrument :
MSVOA_N
ClientSampleId :
PB151321ZHE#03

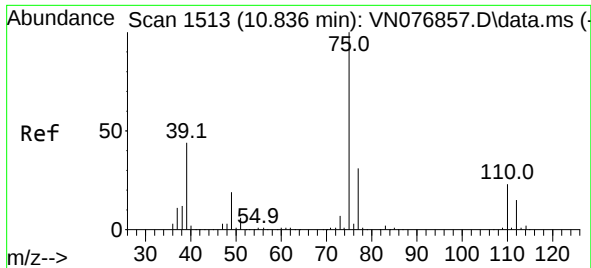
Tgt Ion: 98 Resp: 869365
Ion Ratio Lower Upper
98 100
100 65.8 52.8 79.2



#51
4-Methyl-2-Pentanone
Concen: 3.741 ug/l
RT: 10.448 min Scan# 1447
Delta R.T. 0.000 min
Lab File: VN076910.D
Acq: 09 Mar 2023 18:28

Tgt Ion: 43 Resp: 27115
Ion Ratio Lower Upper
43 100
58 24.0 37.4 56.0#

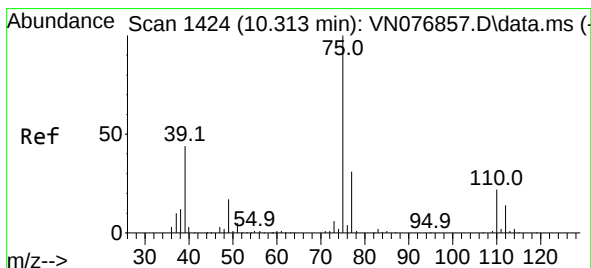
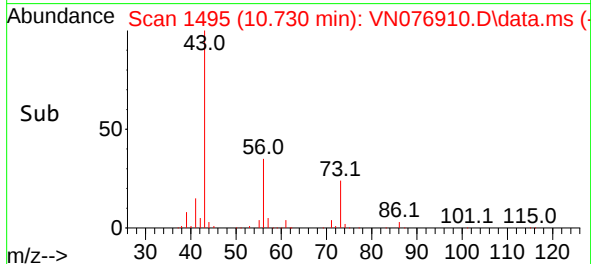
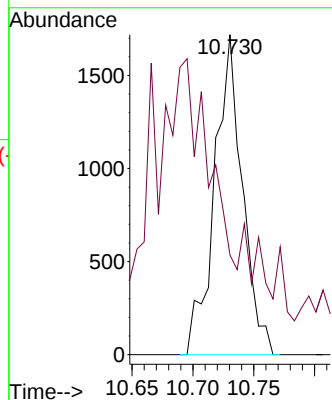
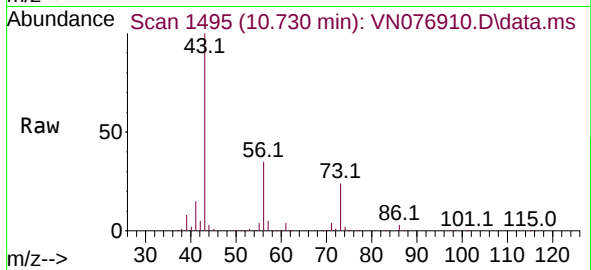




#53
t-1,3-Dichloropropene
Concen: 0.376 ug/l
RT: 10.730 min Scan# 1495
Delta R.T. -0.106 min
Lab File: VN076910.D
Acq: 09 Mar 2023 18:28

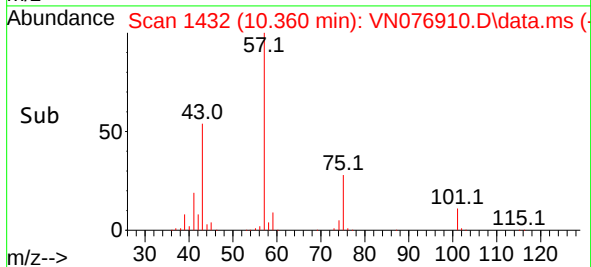
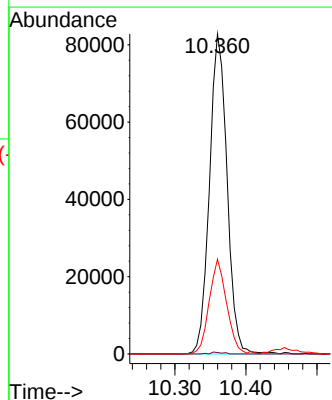
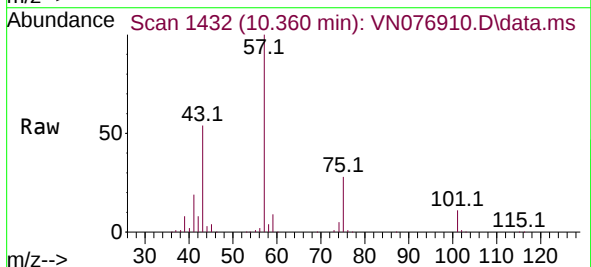
Instrument :
MSVOA_N
ClientSampleId :
PB151321ZHE#03

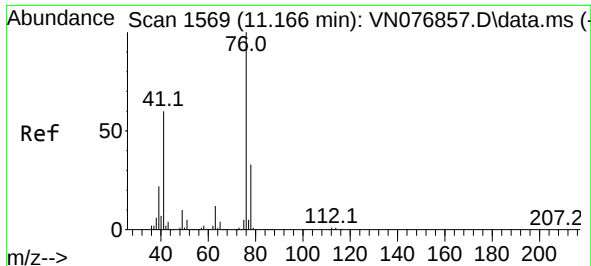
Tgt Ion: 75 Resp: 2742
Ion Ratio Lower Upper
75 100
77 0.0 25.0 37.6#



#54
cis-1,3-Dichloropropene
Concen: 16.993 ug/l
RT: 10.360 min Scan# 1432
Delta R.T. 0.047 min
Lab File: VN076910.D
Acq: 09 Mar 2023 18:28

Tgt Ion: 75 Resp: 142234
Ion Ratio Lower Upper
75 100
77 0.5 25.7 38.5#
39 29.6 29.7 44.5#





#57

1,3-Dichloropropane

Concen: 1.977 ug/l

RT: 11.207 min Scan# 11

Delta R.T. 0.041 min

Lab File: VN076910.D

Acq: 09 Mar 2023 18:28

Instrument :

MSVOA_N

ClientSampleId :

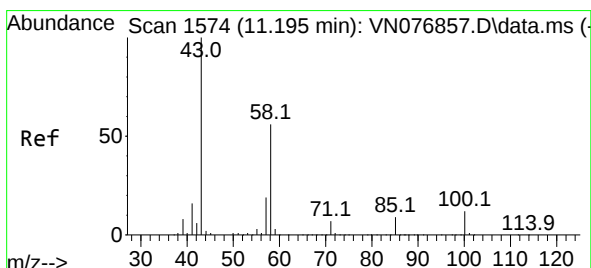
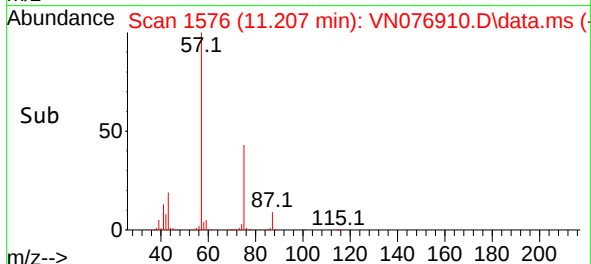
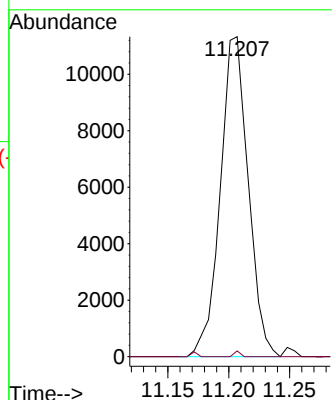
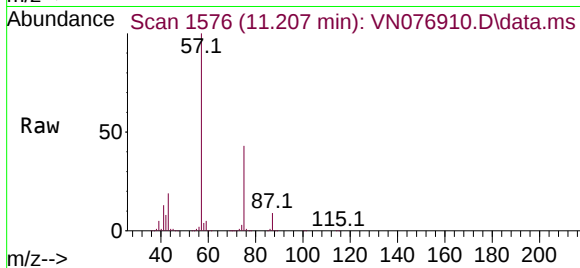
PB151321ZHE#03

Tgt Ion: 76 Resp: 18115

Ion Ratio Lower Upper

76 100

78 0.4 26.1 39.1#



#59

2-Hexanone

Concen: 59.408 ug/l

RT: 11.172 min Scan# 1570

Delta R.T. -0.023 min

Lab File: VN076910.D

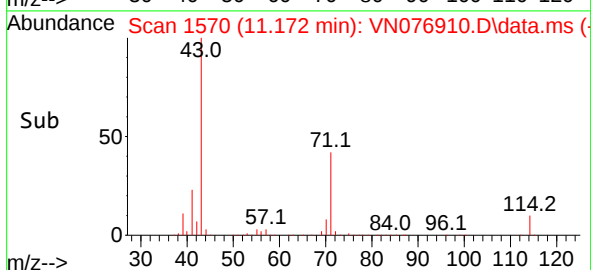
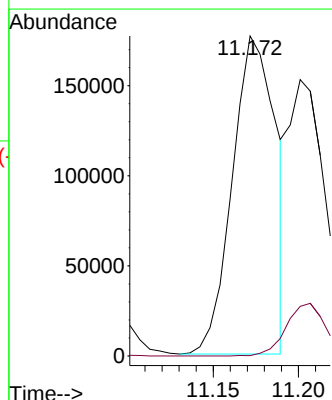
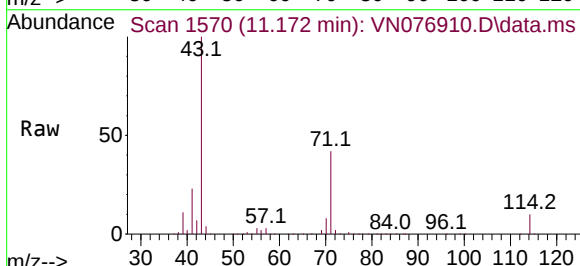
Acq: 09 Mar 2023 18:28

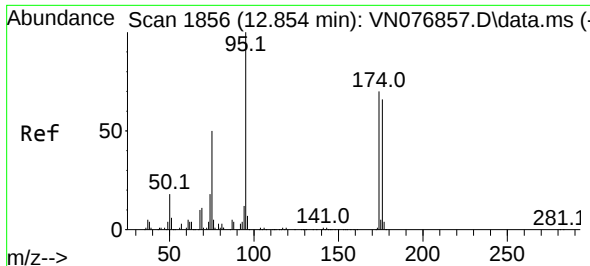
Tgt Ion: 43 Resp: 312059

Ion Ratio Lower Upper

43 100

58 0.0 32.6 98.0#

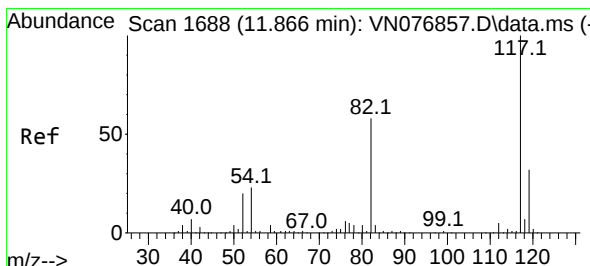
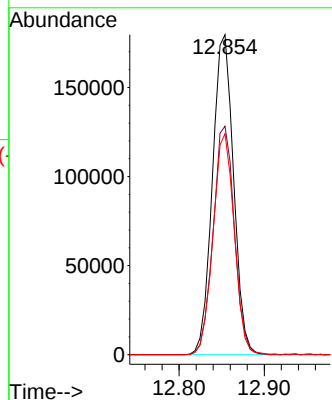
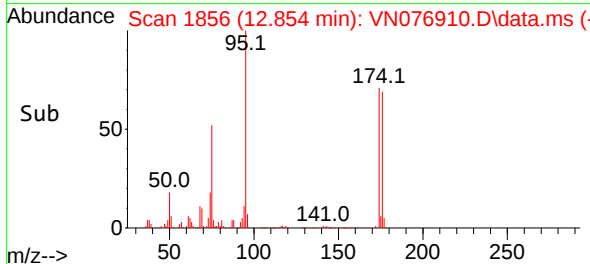
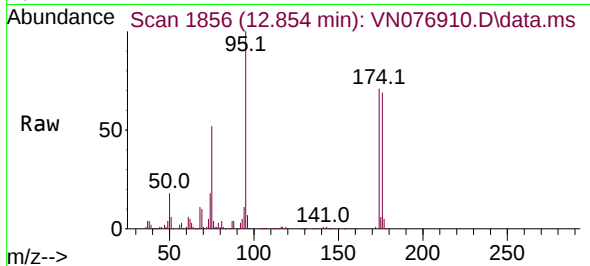




#62
4-Bromofluorobenzene
Concen: 50.914 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. -0.000 min
Lab File: VN076910.D
Acq: 09 Mar 2023 18:28

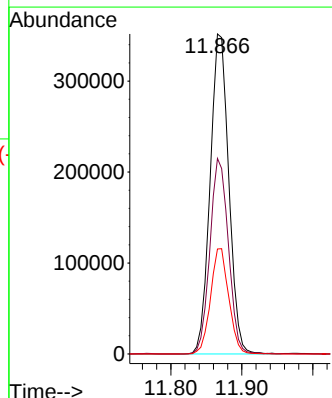
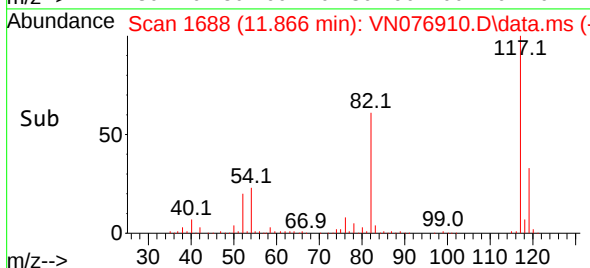
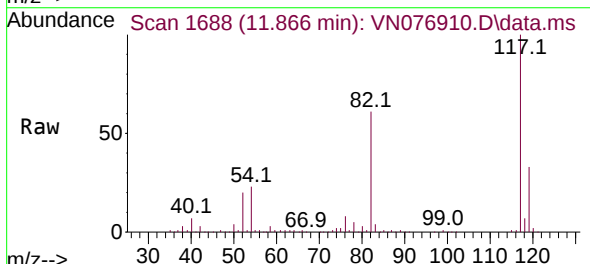
Instrument :
MSVOA_N
ClientSampleId :
PB151321ZHE#03

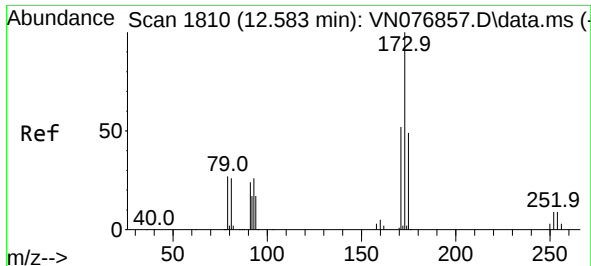
Tgt Ion: 95 Resp: 309297
Ion Ratio Lower Upper
95 100
174 71.6 0.0 162.4
176 69.1 0.0 157.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.866 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VN076910.D
Acq: 09 Mar 2023 18:28

Tgt Ion: 117 Resp: 640369
Ion Ratio Lower Upper
117 100
82 61.1 43.5 65.3
119 32.8 25.5 38.3

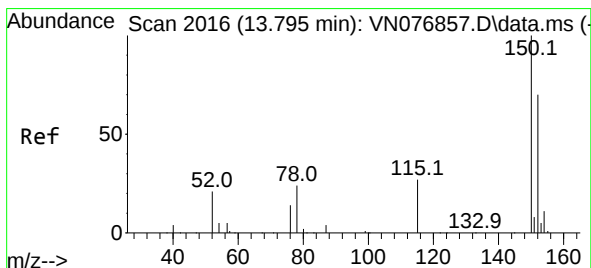
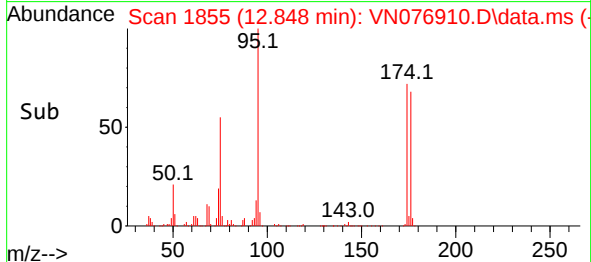
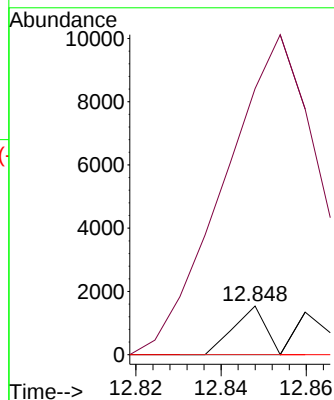
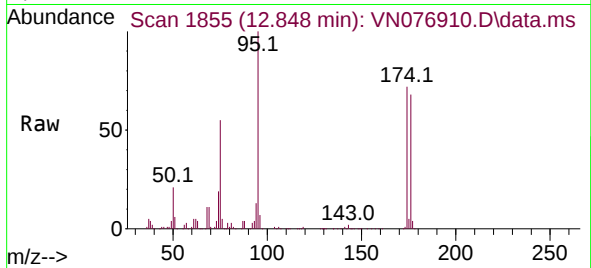




#71
Bromoform
Concen: 0.237 ug/l
RT: 12.848 min Scan# 1810
Delta R.T. 0.265 min
Lab File: VN076910.D
Acq: 09 Mar 2023 18:28

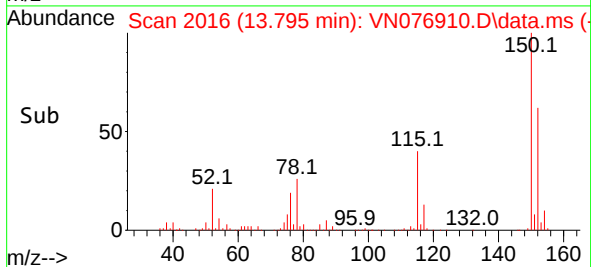
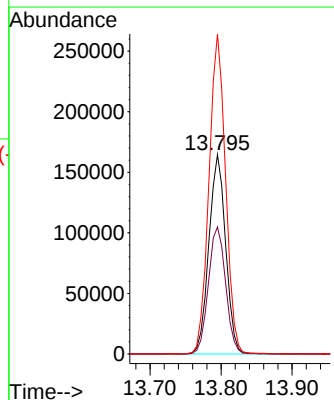
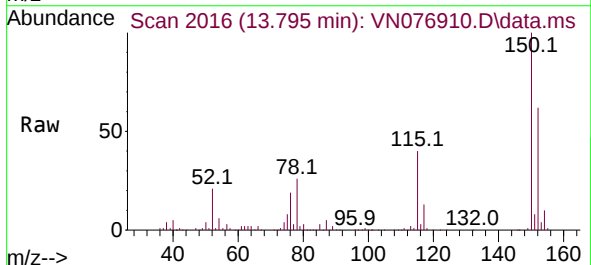
Instrument :
MSVOA_N
ClientSampleId :
PB151321ZHE#03

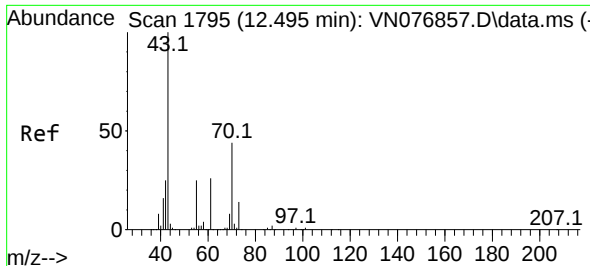
Tgt Ion:173 Resp: 808
Ion Ratio Lower Upper
173 100
175 1678.8 24.9 74.6#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.795 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN076910.D
Acq: 09 Mar 2023 18:28

Tgt Ion:152 Resp: 270045
Ion Ratio Lower Upper
152 100
115 65.5 30.3 90.9
150 158.7 0.0 353.6

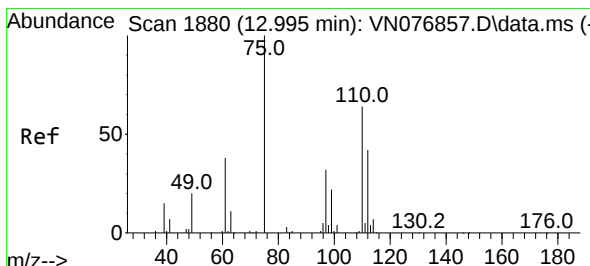
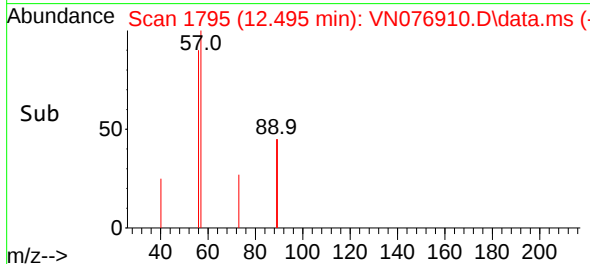
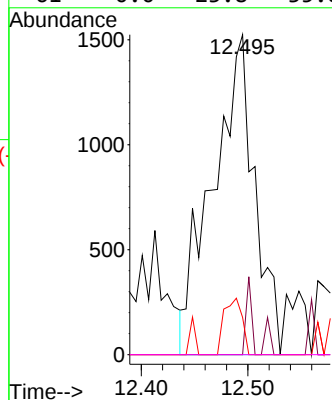
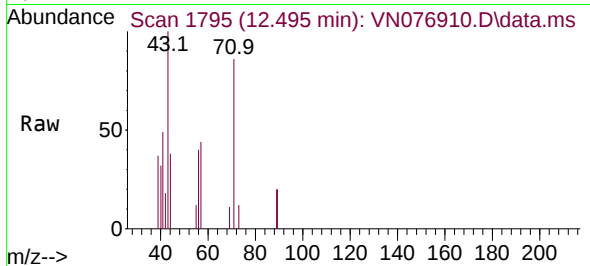




#74
N-amy1 acetate
Concen: 0.451 ug/l
RT: 12.495 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN076910.D
Acq: 09 Mar 2023 18:28

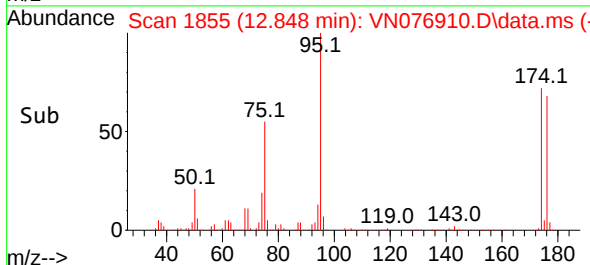
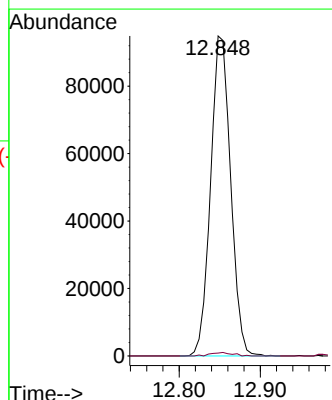
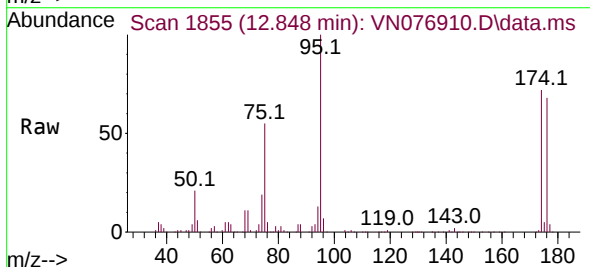
Instrument :
MSVOA_N
ClientSampleId :
PB151321ZHE#03

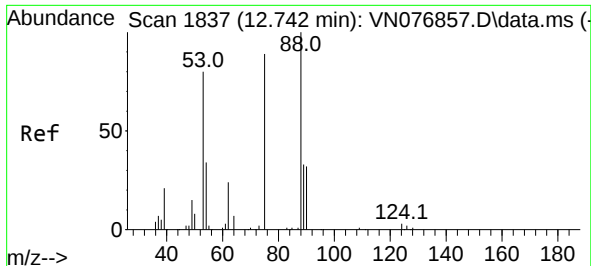
Tgt Ion: 43	Resp: 4153
Ion Ratio	Lower Upper
43 100	
70 3.2	46.8 70.2#
55 7.6	23.4 35.2#
61 0.0	23.8 35.8#



#76
1,2,3-Trichloropropane
Concen: 23.910 ug/l
RT: 12.848 min Scan# 1855
Delta R.T. -0.147 min
Lab File: VN076910.D
Acq: 09 Mar 2023 18:28

Tgt Ion: 75	Resp: 162836
Ion Ratio	Lower Upper
75 100	
77 1.2	93.8 281.4#

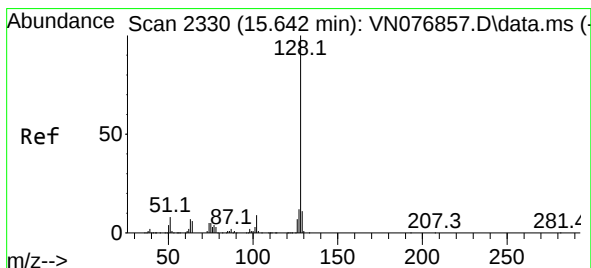
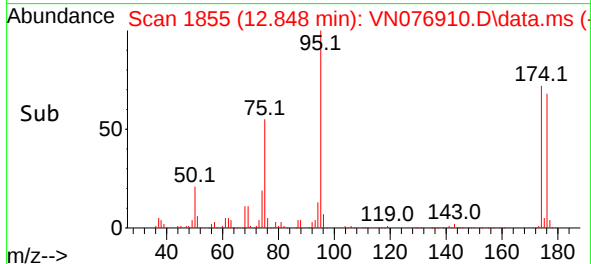
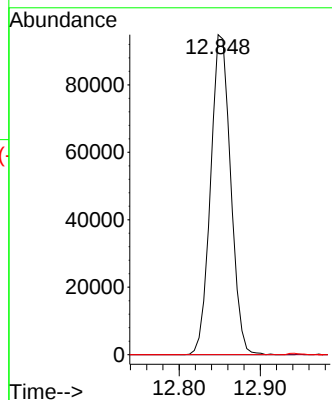
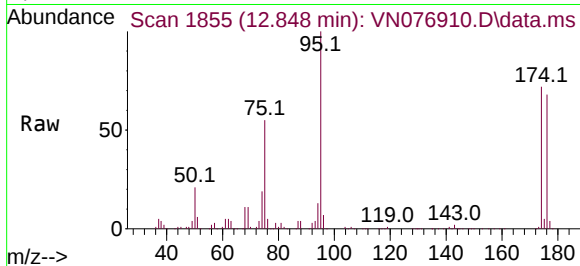




#81
trans-1,4-Dichloro-2-butene
Concen: 78.854 ug/l
RT: 12.848 min Scan# 1837
Delta R.T. 0.106 min
Lab File: VN076910.D
Acq: 09 Mar 2023 18:28

Instrument :
MSVOA_N
ClientSampleId :
PB151321ZHE#03

Tgt Ion: 75 Resp: 162836
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.0#
89 0.0 39.5 59.3#



#95
Naphthalene
Concen: 0.248 ug/l
RT: 15.642 min Scan# 2330
Delta R.T. -0.000 min
Lab File: VN076910.D
Acq: 09 Mar 2023 18:28

Tgt Ion: 128 Resp: 3836
Ion Ratio Lower Upper
128 100
127 10.6 10.2 15.4
129 3.5 8.9 13.3#

