

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022823\
 Data File : VN076830.D
 Acq On : 28 Feb 2023 16:10
 Operator : JC\MD
 Sample : PB151081ZHE#02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB151081ZHE#02

Quant Time: Mar 01 01:29:06 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021323W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 14 01:44:47 2023
 Response via : Initial Calibration

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

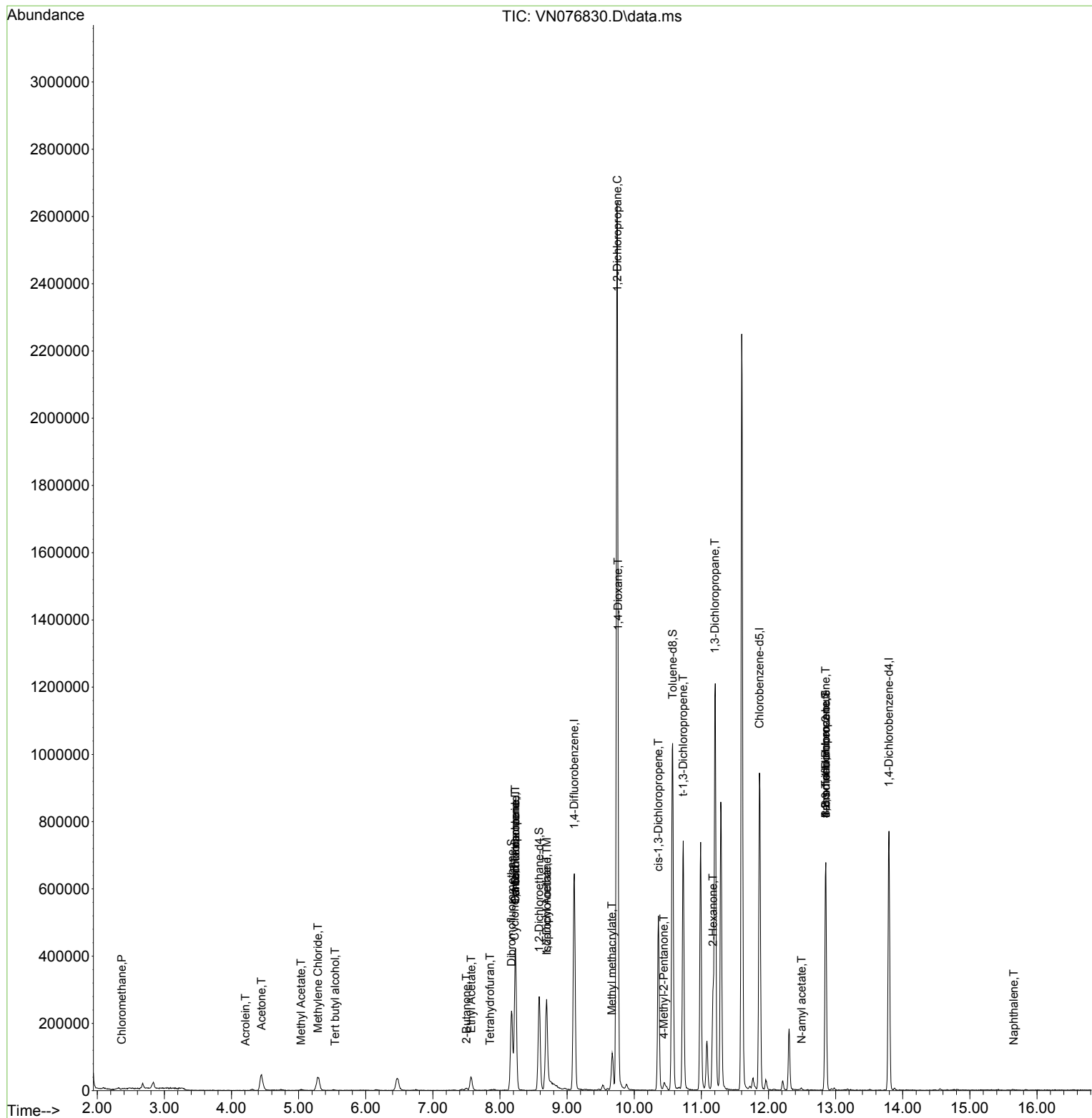
Internal Standards						
1) Pentafluorobenzene	8.231	168	298840	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	542896	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.866	117	527654	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	192467	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.584	65	214885	52.074	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.140%			
35) Dibromofluoromethane	8.172	113	164356	46.228	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 92.460%			
50) Toluene-d8	10.572	98	688816	51.878	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.760%			
62) 4-Bromofluorobenzene	12.854	95	214837	48.854	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 97.700%			
Target Compounds						Qvalue
3) Chloromethane	2.366	50	1054	0.255	ug/l #	44
11) Tert butyl alcohol	5.543	59	1068	1.961	ug/l #	71
13) Acrolein	4.207	56	219	0.268	ug/l #	11
16) Acetone	4.449	43	89695	48.661	ug/l	97
18) Methyl Acetate	5.037	43	2214	0.368	ug/l #	45
20) Methylene Chloride	5.290	84	30729	7.954	ug/l #	88
25) 2-Butanone	7.501	43	10201	3.752	ug/l #	90
29) Tetrahydrofuran	7.854	42	585	0.329	ug/l #	65
31) Cyclohexane	8.219	56	5091	0.786	ug/l #	52
36) 1,1-Dichloropropene	8.231	75	26421	5.143	ug/l #	51
37) Ethyl Acetate	7.572	43	59494	11.008	ug/l	98
38) Carbon Tetrachloride	8.231	117	31333	6.047	ug/l #	17
42) 1,2-Dichloroethane	8.695	62	1969	0.358	ug/l #	74
43) Isopropyl Acetate	8.695	43	337653	38.393	ug/l #	84
45) 1,2-Dichloropropane	9.748	63	3727	0.893	ug/l #	44
48) Methyl methacrylate	9.666	41	7493	1.795	ug/l #	14
49) 1,4-Dioxane	9.760	88	61	0.845	ug/l #	1
51) 4-Methyl-2-Pentanone	10.442	43	24791	4.430	ug/l #	74
53) t-1,3-Dichloropropene	10.730	75	2506	0.485	ug/l #	62
54) cis-1,3-Dichloropropene	10.360	75	86870	14.578	ug/l #	71
57) 1,3-Dichloropropane	11.201	76	12638	1.899	ug/l #	42
59) 2-Hexanone	11.172	43	242013	59.985	ug/l #	27
71) Bromoform	12.854	173	3317	1.113	ug/l #	1
74) N-amyl acetate	12.495	43	3335	0.524	ug/l #	59
76) 1,2,3-Trichloropropane	12.854	75	120096	30.864	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.854	75	120096	89.893	ug/l #	4
95) Naphthalene	15.654	128	2442	0.237	ug/l #	81

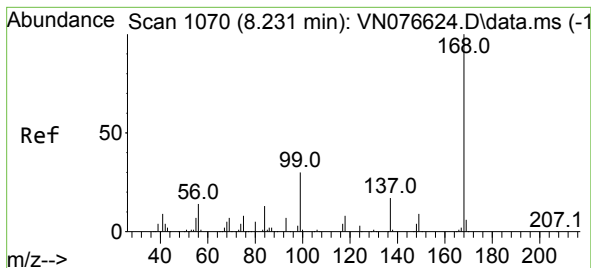
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Feb 14 01:44:47 2023
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.231 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN076830.D

Acq: 28 Feb 2023 16:10

Instrument :

MSVOA_N

ClientSampleId :

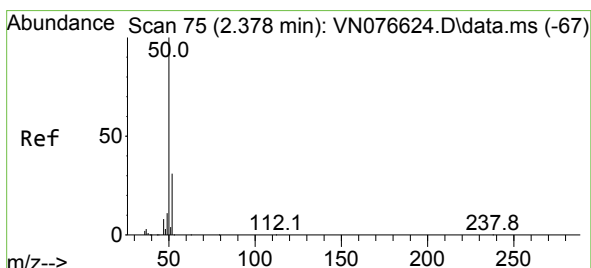
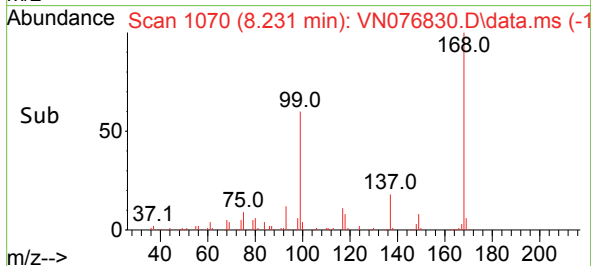
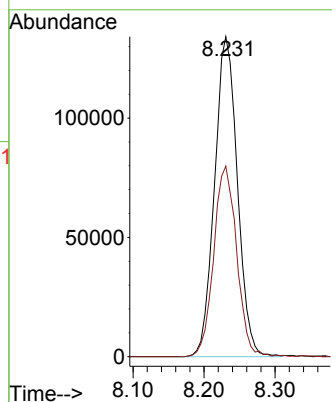
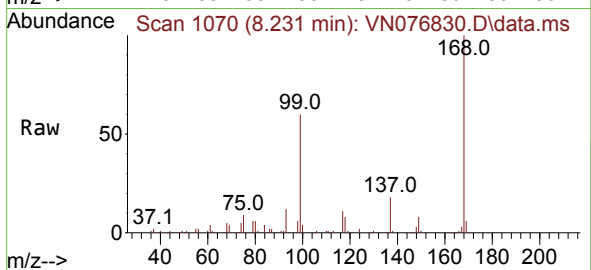
PB151081ZHE#02

Tgt Ion:168 Resp: 298840

Ion Ratio Lower Upper

168 100

99 59.5 44.8 67.2



#3

Chloromethane

Concen: 0.255 ug/l

RT: 2.366 min Scan# 73

Delta R.T. -0.012 min

Lab File: VN076830.D

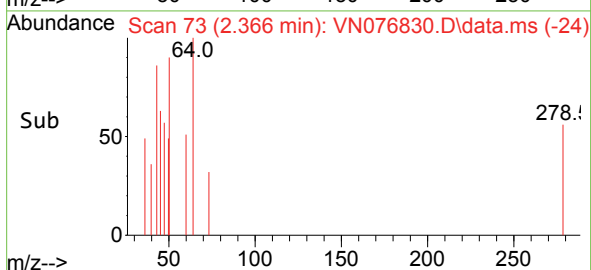
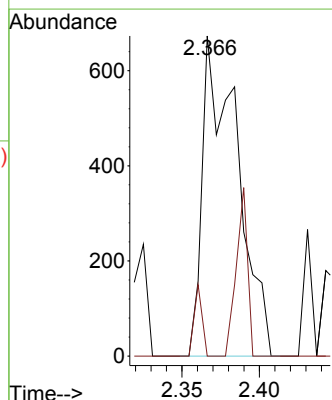
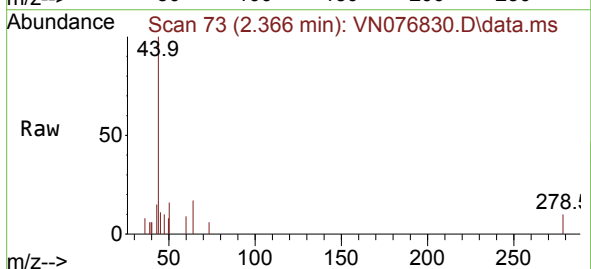
Acq: 28 Feb 2023 16:10

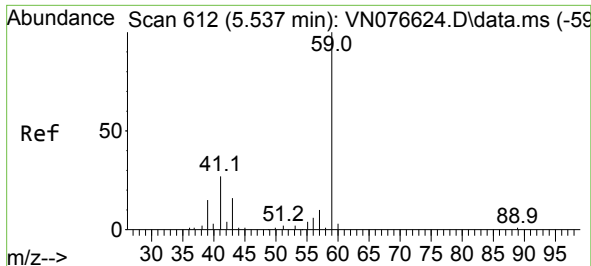
Tgt Ion: 50 Resp: 1054

Ion Ratio Lower Upper

50 100

52 0.0 24.7 37.1#

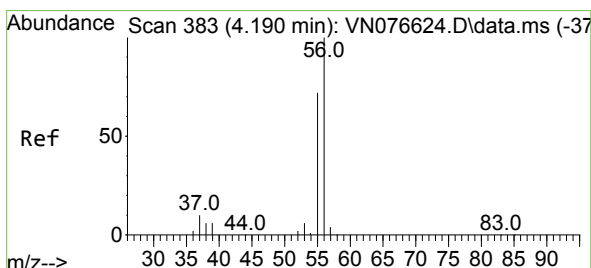
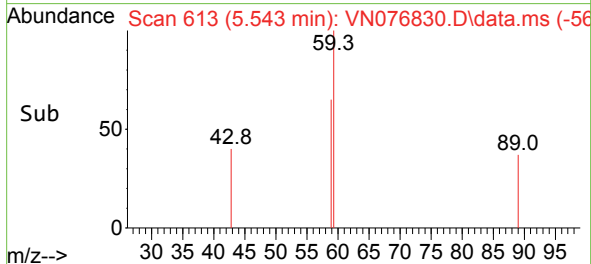
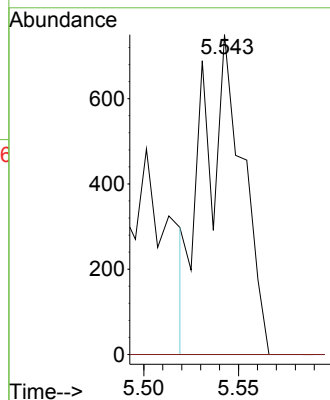
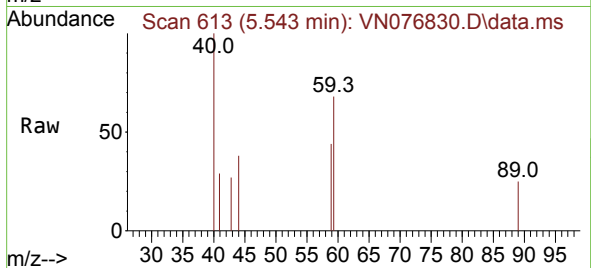




#11
Tert butyl alcohol
Concen: 1.961 ug/l
RT: 5.543 min Scan# 612
Delta R.T. 0.006 min
Lab File: VN076830.D
Acq: 28 Feb 2023 16:10

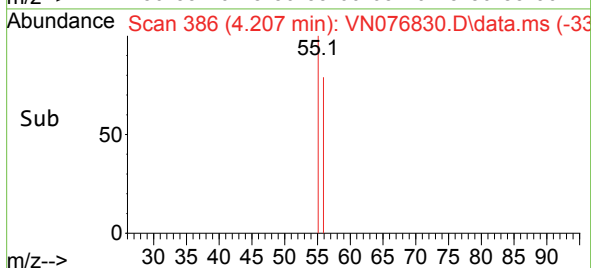
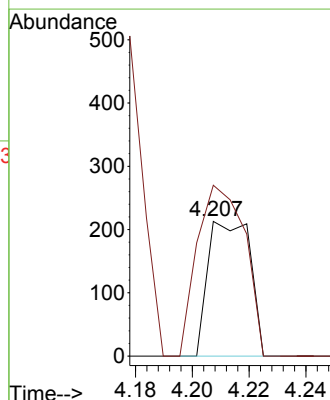
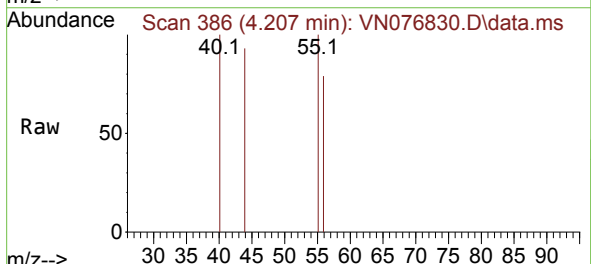
Instrument :
MSVOA_N
ClientSampleId :
PB151081ZHE#02

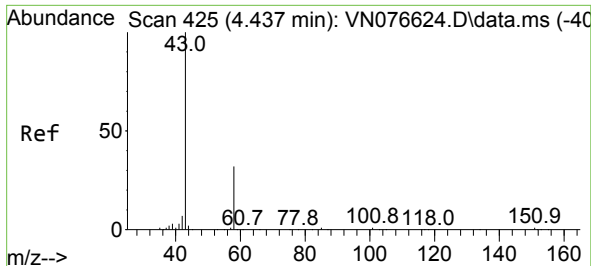
Tgt Ion: 59 Resp: 1068
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#



#13
Acrolein
Concen: 0.268 ug/l
RT: 4.207 min Scan# 386
Delta R.T. 0.017 min
Lab File: VN076830.D
Acq: 28 Feb 2023 16:10

Tgt Ion: 56 Resp: 219
Ion Ratio Lower Upper
56 100
55 143.4 56.3 84.5#

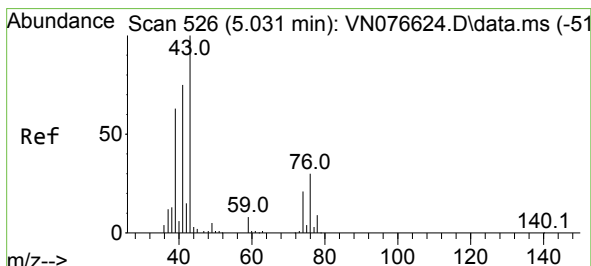
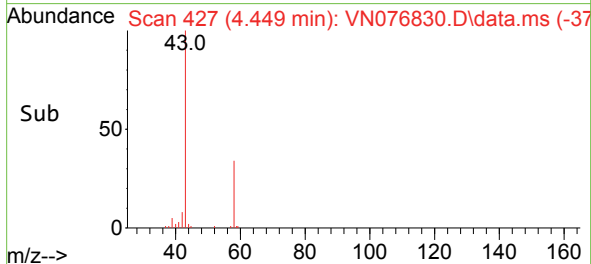
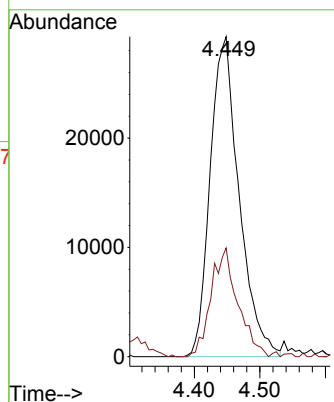
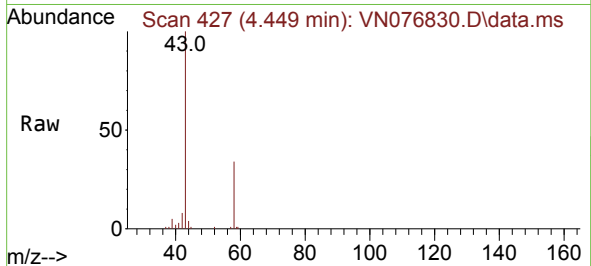




#16
Acetone
Concen: 48.661 ug/l
RT: 4.449 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN076830.D
Acq: 28 Feb 2023 16:10

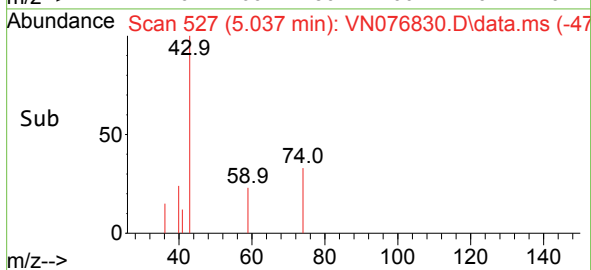
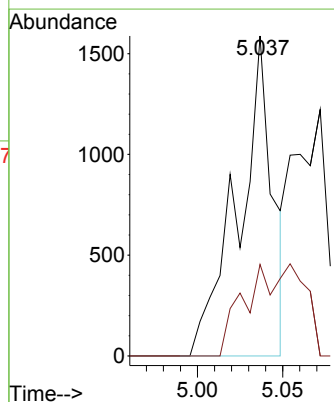
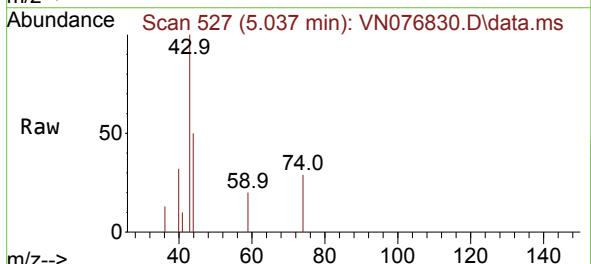
Instrument :
MSVOA_N
ClientSampleId :
PB151081ZHE#02

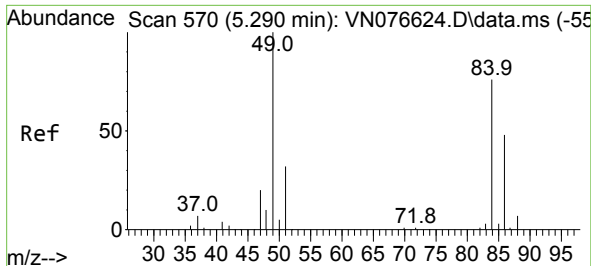
Tgt Ion: 43 Resp: 89695
Ion Ratio Lower Upper
43 100
58 34.0 25.9 38.9



#18
Methyl Acetate
Concen: 0.368 ug/l
RT: 5.037 min Scan# 527
Delta R.T. 0.006 min
Lab File: VN076830.D
Acq: 28 Feb 2023 16:10

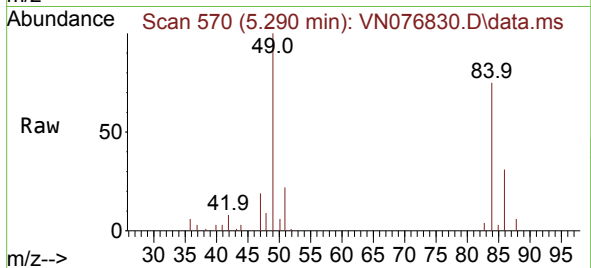
Tgt Ion: 43 Resp: 2214
Ion Ratio Lower Upper
43 100
74 48.6 17.7 26.5#





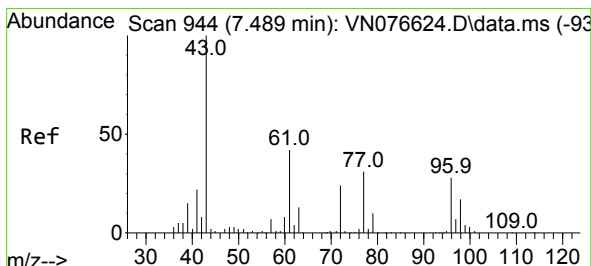
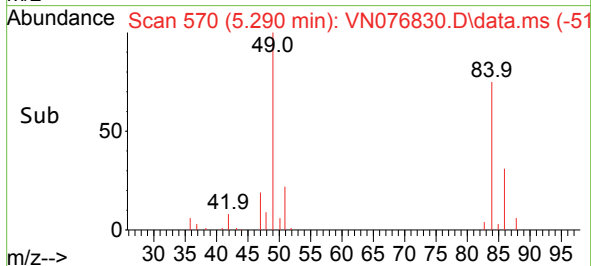
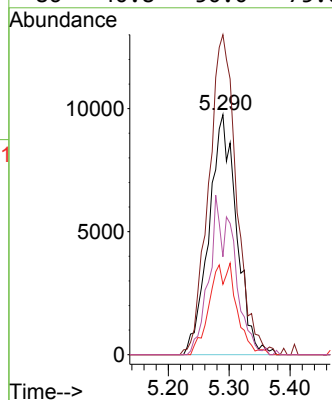
#20
Methylene Chloride
Concen: 7.954 ug/l
RT: 5.290 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN076830.D
Acq: 28 Feb 2023 16:10

Instrument :
MSVOA_N
ClientSampleId :
PB151081ZHE#02



Tgt Ion: 84 Resp: 30729

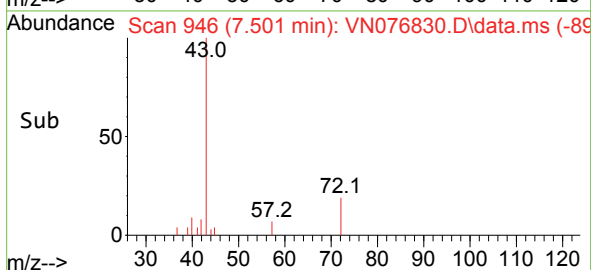
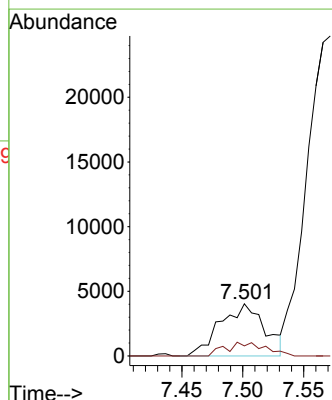
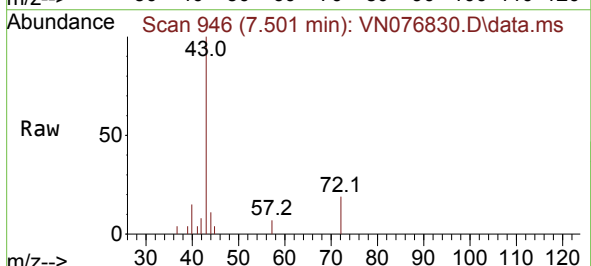
Ion	Ratio	Lower	Upper
84	100		
49	133.3	104.9	157.3
51	29.4	33.8	50.8#
86	40.8	50.0	75.0#

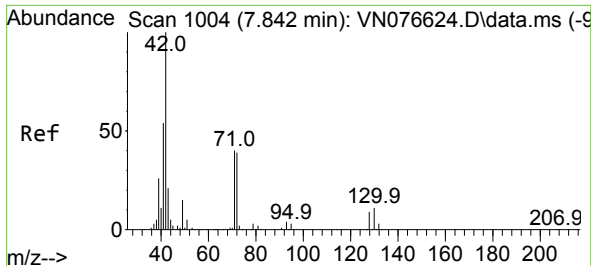


#25
2-Butanone
Concen: 3.752 ug/l
RT: 7.501 min Scan# 946
Delta R.T. 0.012 min
Lab File: VN076830.D
Acq: 28 Feb 2023 16:10

Tgt Ion: 43 Resp: 10201

Ion	Ratio	Lower	Upper
43	100		
72	19.4	19.4	29.2#





#29

Tetrahydrofuran

Concen: 0.329 ug/l

RT: 7.854 min Scan# 1068

Delta R.T. 0.012 min

Lab File: VN076830.D

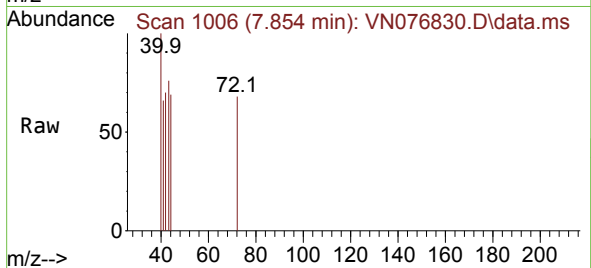
Acq: 28 Feb 2023 16:10

Instrument :

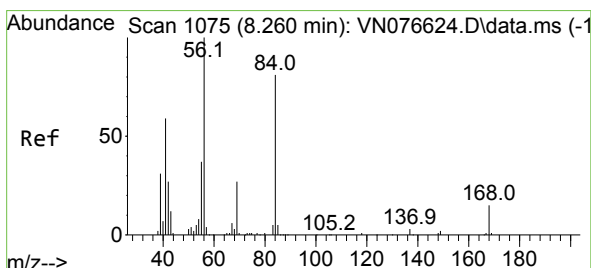
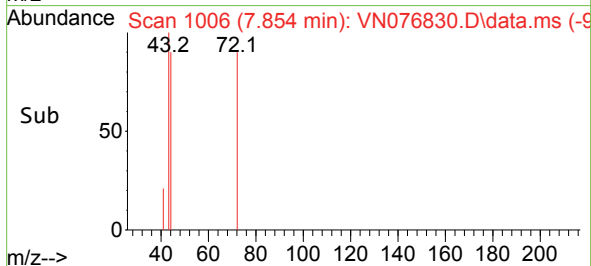
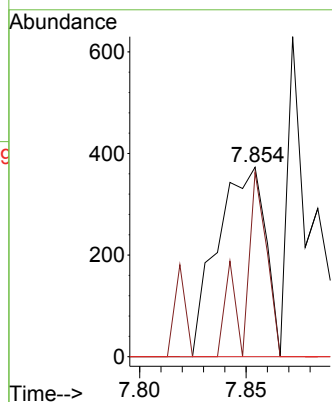
MSVOA_N

ClientSampleId :

PB151081ZHE#02



Tgt Ion: 42	Resp: 585
Ion Ratio	Lower Upper
42	100
72	45.5 31.5 47.3
71	0.0 29.8 44.8



#31

Cyclohexane

Concen: 0.786 ug/l

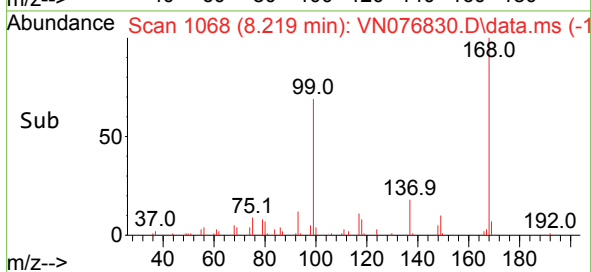
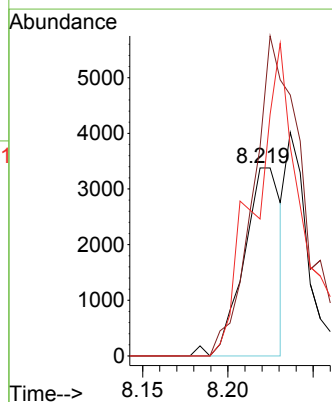
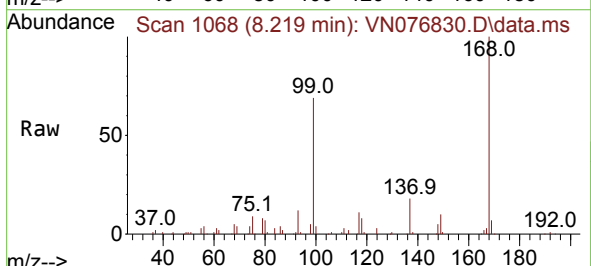
RT: 8.219 min Scan# 1068

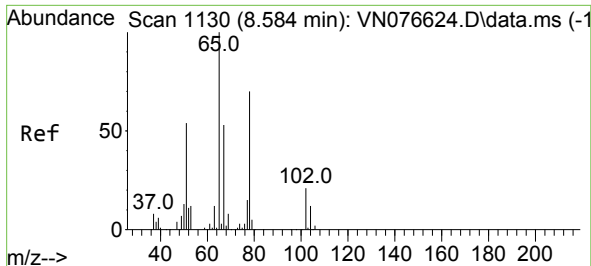
Delta R.T. -0.041 min

Lab File: VN076830.D

Acq: 28 Feb 2023 16:10

Tgt Ion: 56	Resp: 5091
Ion Ratio	Lower Upper
56	100
69	111.0 21.6 32.4
84	72.8 65.1 97.7





#33

1,2-Dichloroethane-d4

Concen: 52.074 ug/l

RT: 8.584 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN076830.D

Acq: 28 Feb 2023 16:10

Instrument :

MSVOA_N

ClientSampleId :

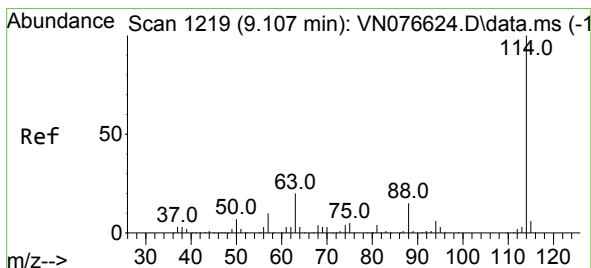
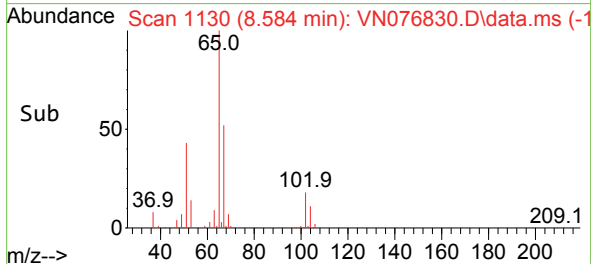
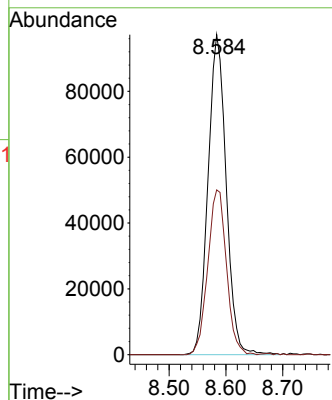
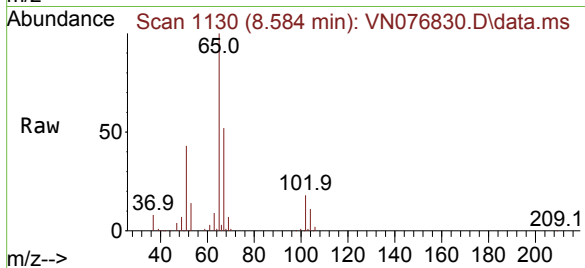
PB151081ZHE#02

Tgt Ion: 65 Resp: 214885

Ion Ratio Lower Upper

65 100

67 53.0 0.0 105.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.107 min Scan# 1219

Delta R.T. 0.000 min

Lab File: VN076830.D

Acq: 28 Feb 2023 16:10

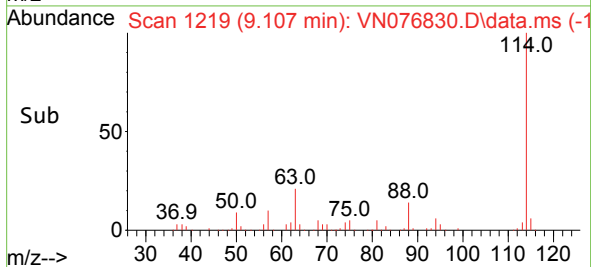
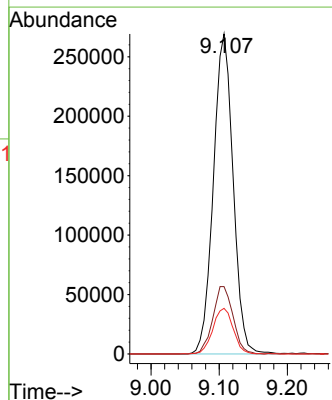
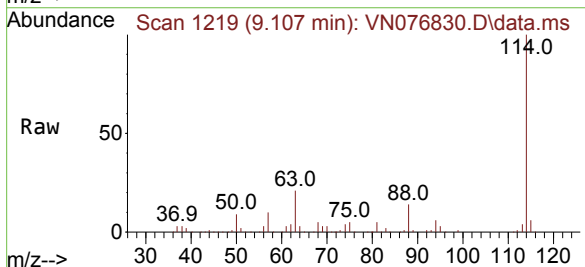
Tgt Ion:114 Resp: 542896

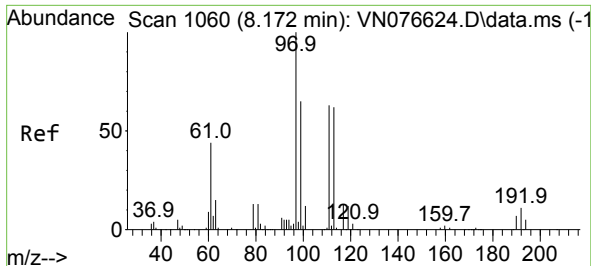
Ion Ratio Lower Upper

114 100

63 21.0 0.0 40.0

88 14.3 0.0 29.6

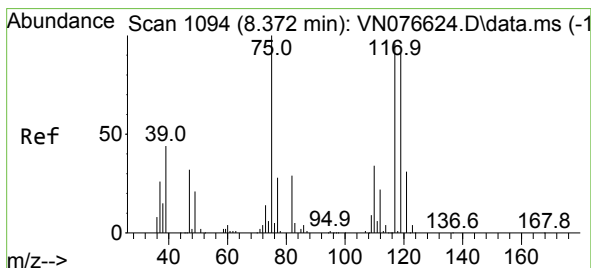
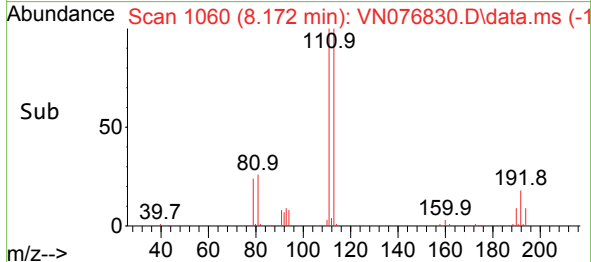
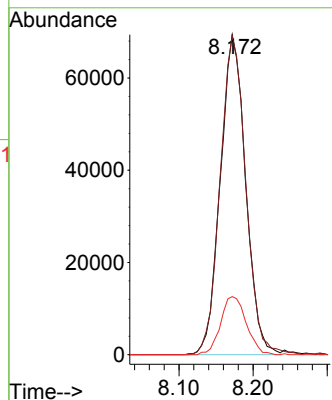
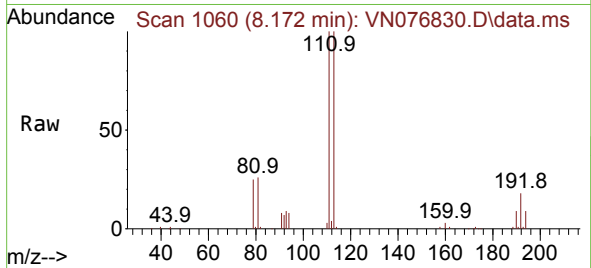




#35
 Dibromofluoromethane
 Concen: 46.228 ug/l
 RT: 8.172 min Scan# 1060
 Delta R.T. -0.000 min
 Lab File: VN076830.D
 Acq: 28 Feb 2023 16:10

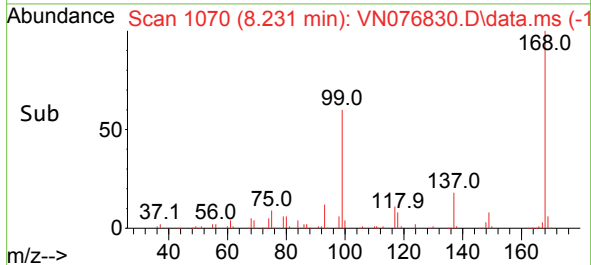
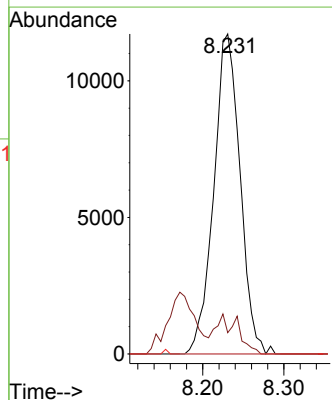
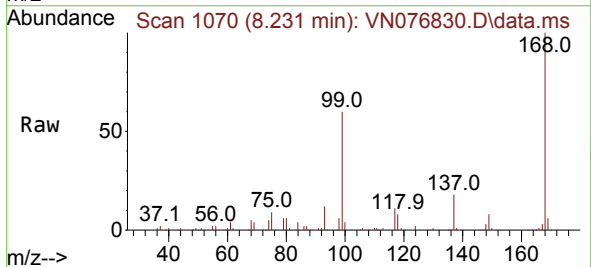
Instrument :
 MSVOA_N
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 PB151081ZHE#02

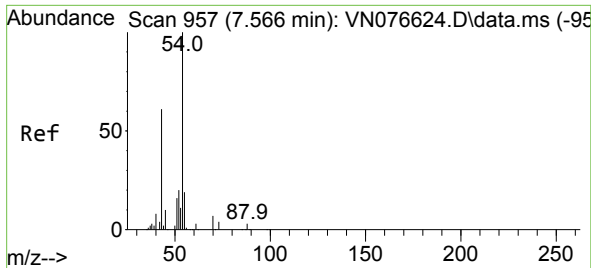
Tgt Ion:113 Resp: 164356
 Ion Ratio Lower Upper
 113 100
 111 101.2 83.1 124.7
 192 18.4 15.6 23.4



#36
 1,1-Dichloropropene
 Concen: 5.143 ug/l
 RT: 8.231 min Scan# 1070
 Delta R.T. -0.141 min
 Lab File: VN076830.D
 Acq: 28 Feb 2023 16:10

Tgt Ion: 75 Resp: 26421
 Ion Ratio Lower Upper
 75 100
 110 10.4 17.5 52.5#
 77 0.0 24.5 36.7#

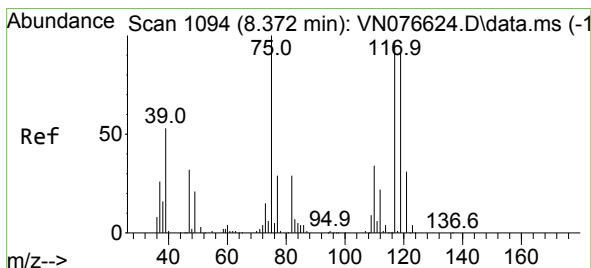
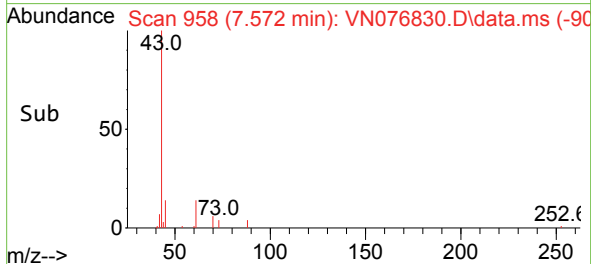
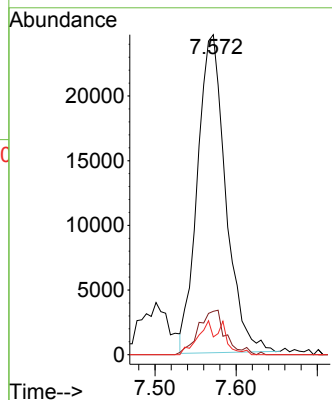
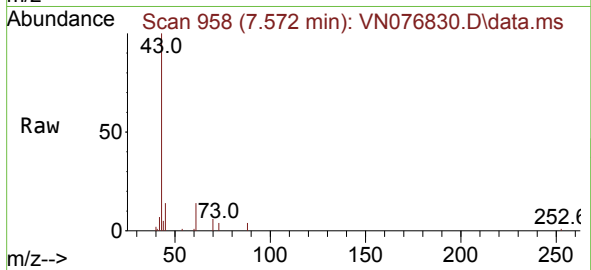




#37
Ethyl Acetate
Concen: 11.008 ug/l
RT: 7.572 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN076830.D
Acq: 28 Feb 2023 16:10

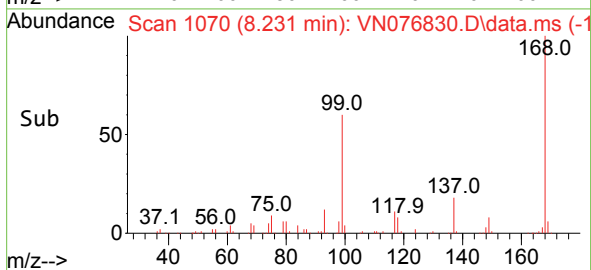
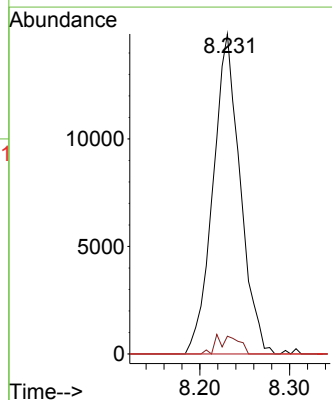
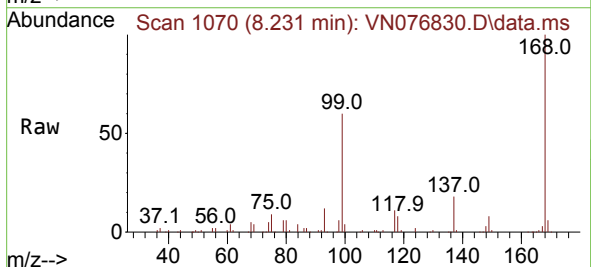
Instrument :
MSVOA_N
ClientSampleId :
PB151081ZHE#02

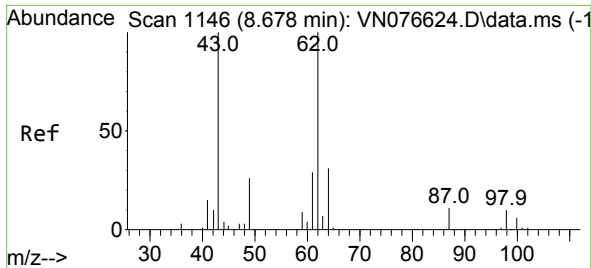
Tgt Ion: 43 Resp: 59494
Ion Ratio Lower Upper
43 100
61 13.4 9.9 14.9
70 9.4 7.8 11.6



#38
Carbon Tetrachloride
Concen: 6.047 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.141 min
Lab File: VN076830.D
Acq: 28 Feb 2023 16:10

Tgt Ion: 117 Resp: 31333
Ion Ratio Lower Upper
117 100
119 5.6 75.4 113.0#
121 0.0 26.0 39.0#





#42

1,2-Dichloroethane

Concen: 0.358 ug/l

RT: 8.695 min Scan# 1149

Delta R.T. 0.017 min

Lab File: VN076830.D

Acq: 28 Feb 2023 16:10

Instrument :

MSVOA_N

ClientSampleId :

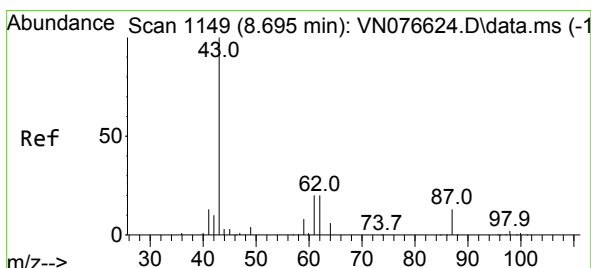
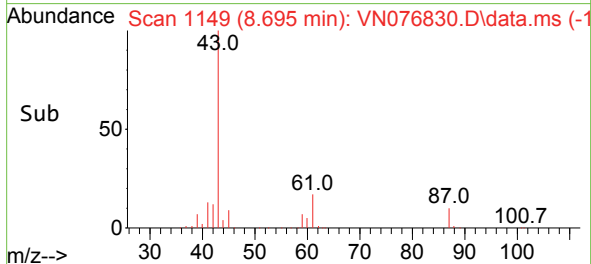
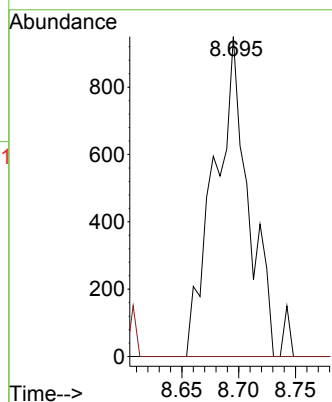
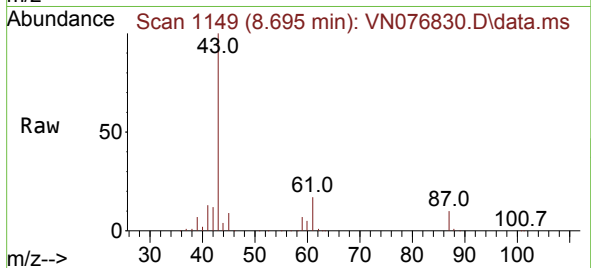
PB151081ZHE#02

Tgt Ion: 62 Resp: 1969

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.2



#43

Isopropyl Acetate

Concen: 38.393 ug/l

RT: 8.695 min Scan# 1149

Delta R.T. 0.000 min

Lab File: VN076830.D

Acq: 28 Feb 2023 16:10

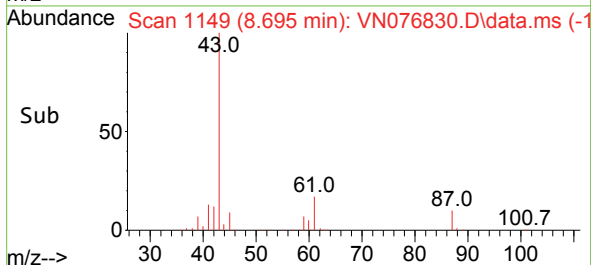
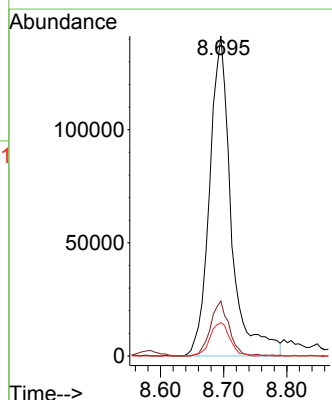
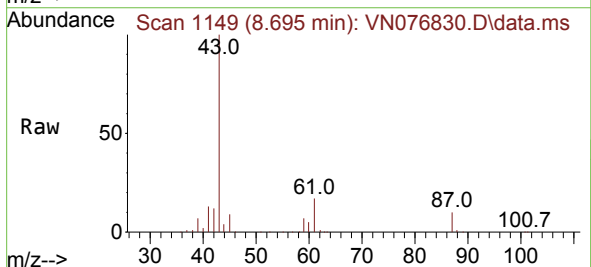
Tgt Ion: 43 Resp: 337653

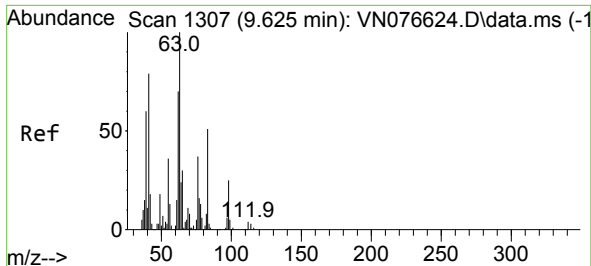
Ion Ratio Lower Upper

43 100

61 14.9 20.0 30.0#

87 9.5 9.9 14.9#





#45

1,2-Dichloropropane

Concen: 0.893 ug/l

RT: 9.748 min Scan# 1328

Delta R.T. 0.123 min

Lab File: VN076830.D

Acq: 28 Feb 2023 16:10

Instrument :

MSVOA_N

ClientSampleId :

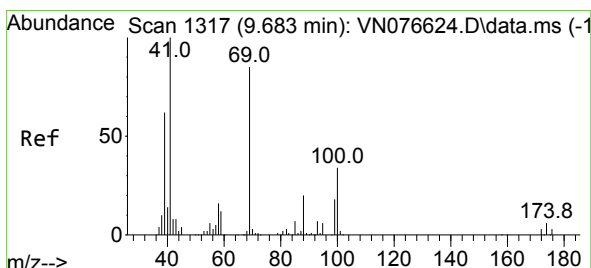
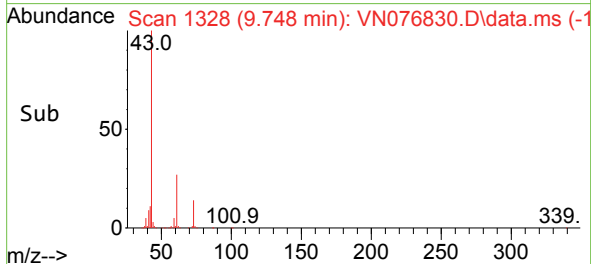
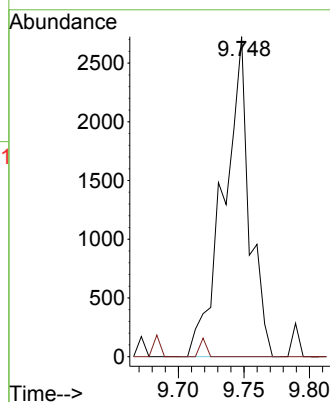
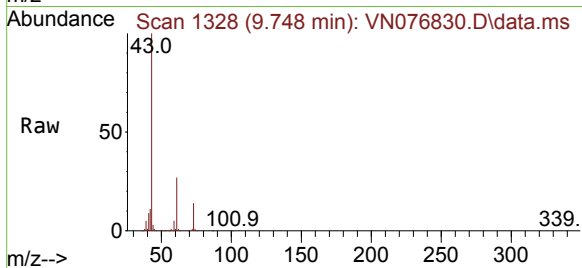
PB151081ZHE#02

Tgt Ion: 63 Resp: 3727

Ion Ratio Lower Upper

63 100

65 0.0 24.2 36.2#



#48

Methyl methacrylate

Concen: 1.795 ug/l

RT: 9.666 min Scan# 1314

Delta R.T. -0.017 min

Lab File: VN076830.D

Acq: 28 Feb 2023 16:10

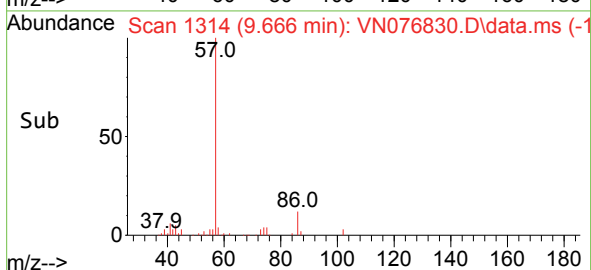
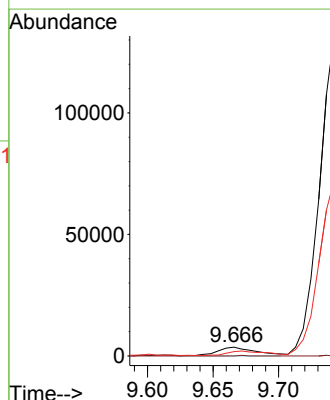
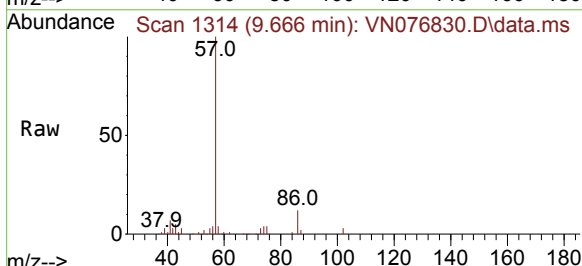
Tgt Ion: 41 Resp: 7493

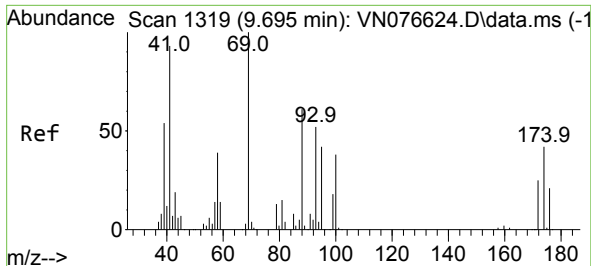
Ion Ratio Lower Upper

41 100

69 1.3 65.4 98.0#

39 0.0 49.3 73.9#





#49

1,4-Dioxane

Concen: 0.845 ug/l

RT: 9.760 min Scan# 11

Delta R.T. 0.065 min

Lab File: VN076830.D

Acq: 28 Feb 2023 16:10

Instrument :

MSVOA_N

ClientSampleId :

PB151081ZHE#02

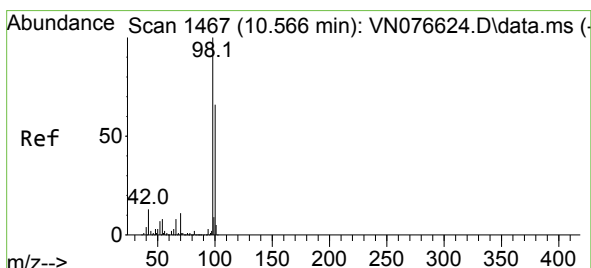
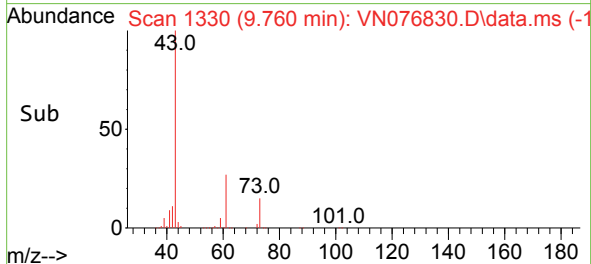
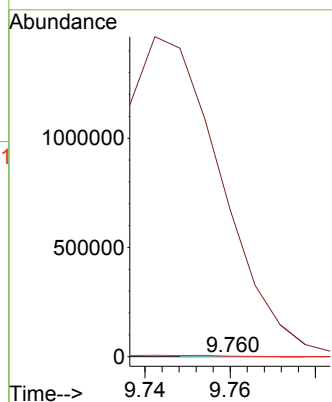
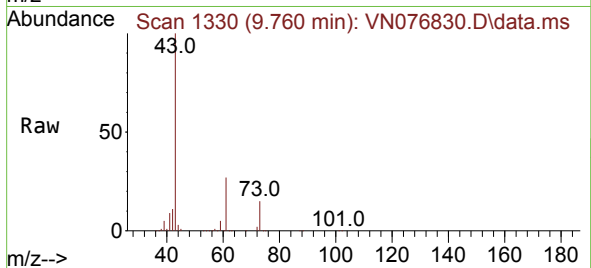
Tgt Ion: 88 Resp: 61

Ion Ratio Lower Upper

88 100

43 4389395.1 22.6 33.8#

58 19804.9 57.6 86.4#



#50

Toluene-d8

Concen: 51.878 ug/l

RT: 10.572 min Scan# 1468

Delta R.T. 0.006 min

Lab File: VN076830.D

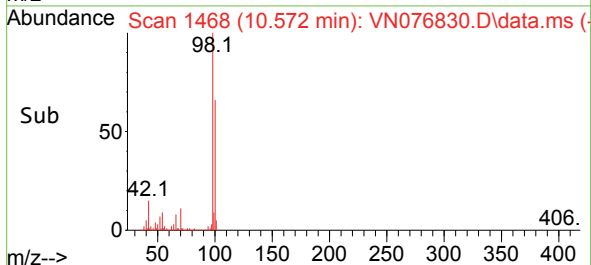
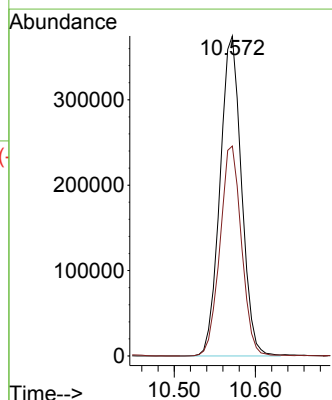
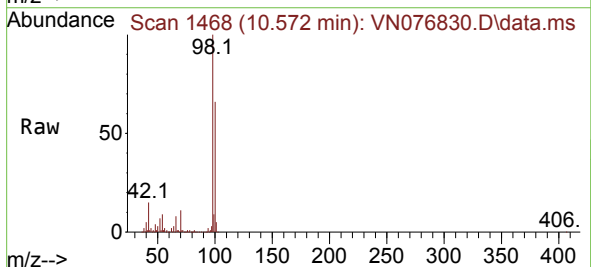
Acq: 28 Feb 2023 16:10

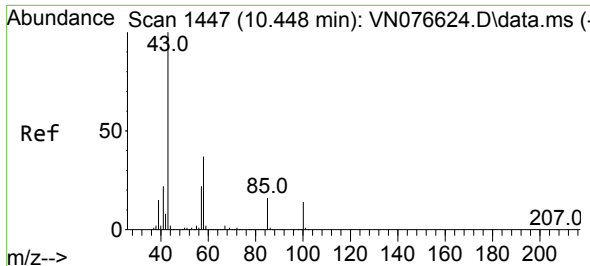
Tgt Ion: 98 Resp: 688816

Ion Ratio Lower Upper

98 100

100 65.8 52.9 79.3

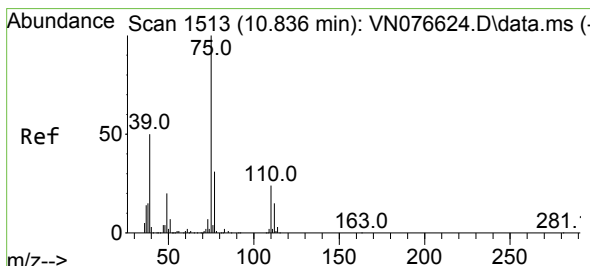
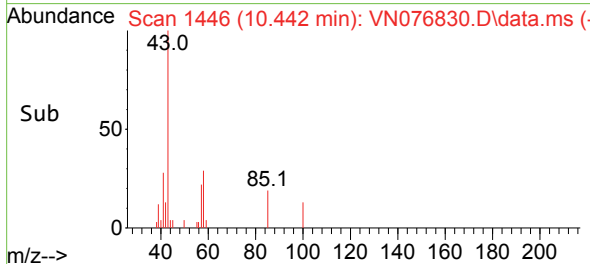
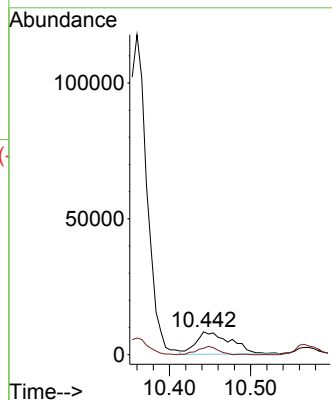
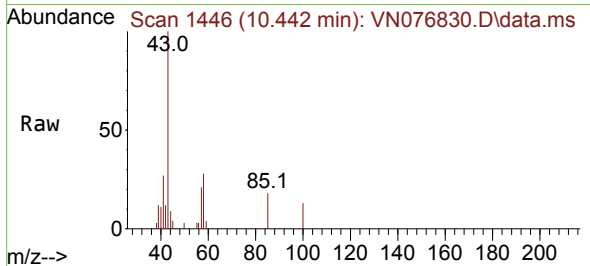




#51
4-Methyl-2-Pentanone
Concen: 4.430 ug/l
RT: 10.442 min Scan# 1446
Delta R.T. -0.006 min
Lab File: VN076830.D
Acq: 28 Feb 2023 16:10

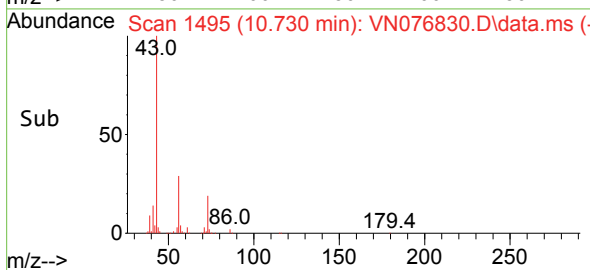
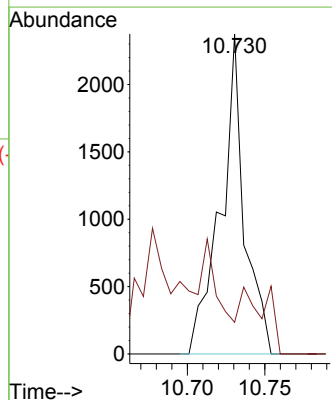
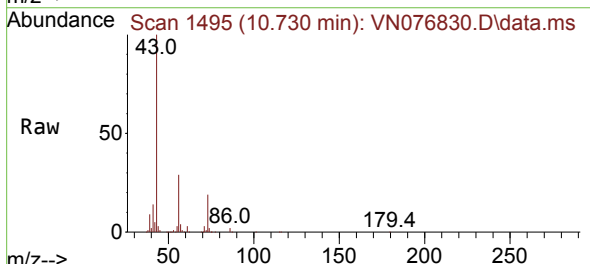
Instrument :
MSVOA_N
ClientSampleId :
PB151081ZHE#02

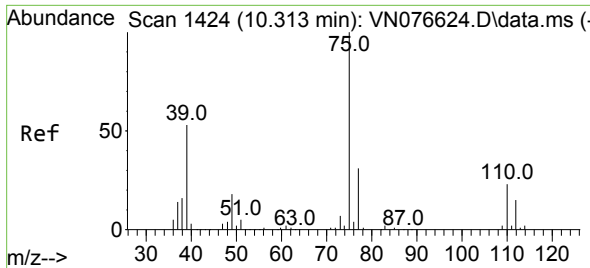
Tgt Ion: 43 Resp: 24791
Ion Ratio Lower Upper
43 100
58 21.7 29.5 44.3#



#53
t-1,3-Dichloropropene
Concen: 0.485 ug/l
RT: 10.730 min Scan# 1495
Delta R.T. -0.106 min
Lab File: VN076830.D
Acq: 28 Feb 2023 16:10

Tgt Ion: 75 Resp: 2506
Ion Ratio Lower Upper
75 100
77 9.9 24.6 37.0#

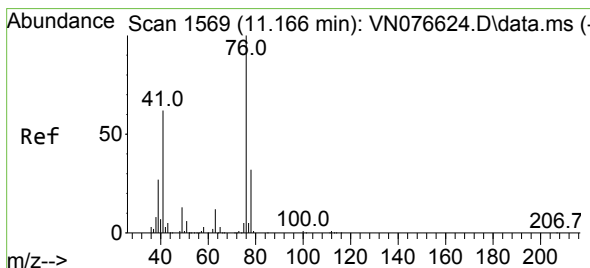
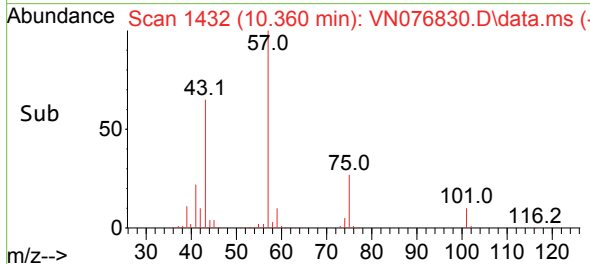
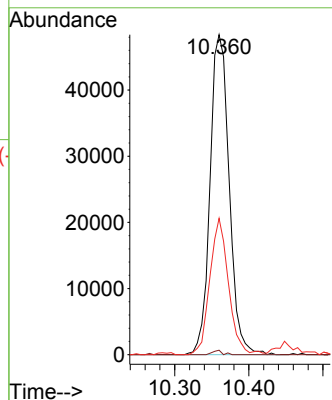
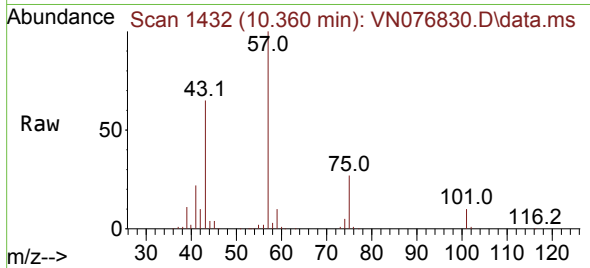




#54
 cis-1,3-Dichloropropene
 Concen: 14.578 ug/l
 RT: 10.360 min Scan# 14
 Delta R.T. 0.047 min
 Lab File: VN076830.D
 Acq: 28 Feb 2023 16:10

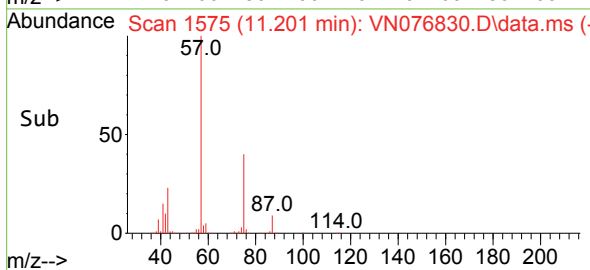
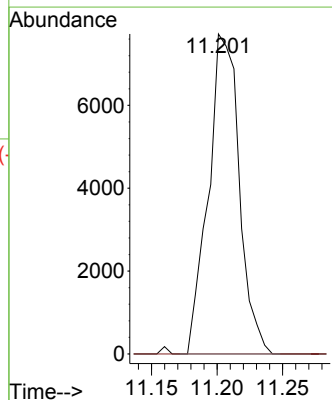
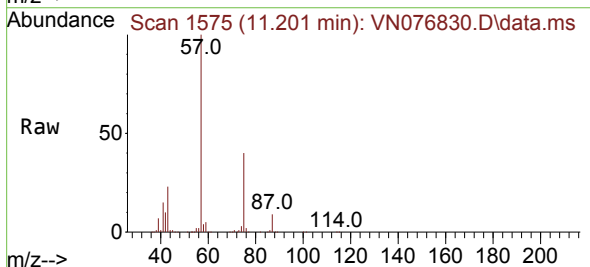
Instrument :
 MSVOA_N
 ClientSampleId :
 PB151081ZHE#02

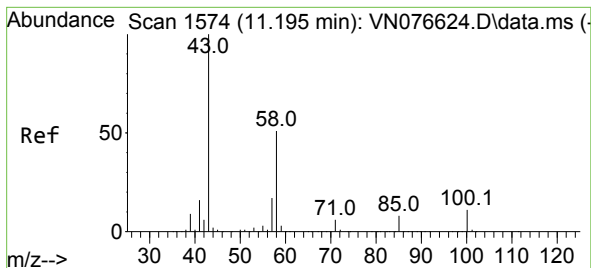
Tgt Ion: 75 Resp: 86870
 Ion Ratio Lower Upper
 75 100
 77 1.4 25.1 37.7#
 39 42.6 42.3 63.5



#57
 1,3-Dichloropropane
 Concen: 1.899 ug/l
 RT: 11.201 min Scan# 1575
 Delta R.T. 0.035 min
 Lab File: VN076830.D
 Acq: 28 Feb 2023 16:10

Tgt Ion: 76 Resp: 12638
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.1 39.1#

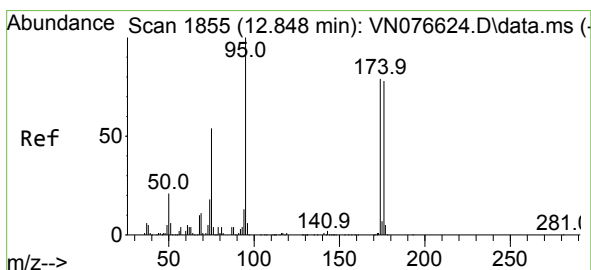
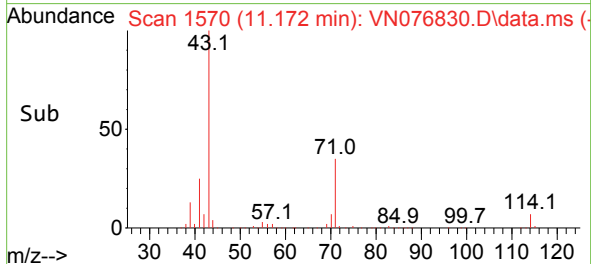
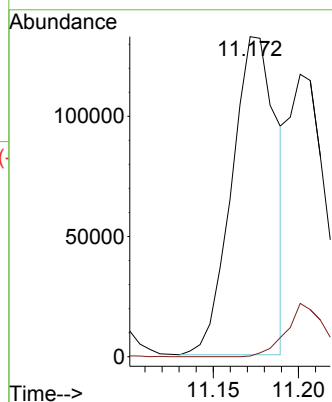
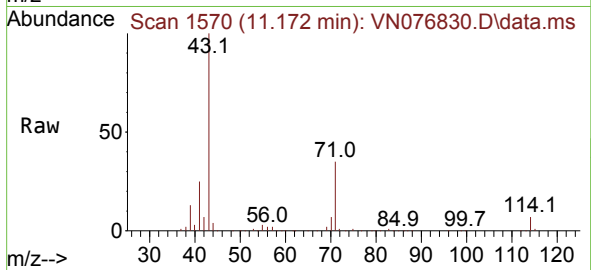




#59
2-Hexanone
Concen: 59.985 ug/l
RT: 11.172 min Scan# 11170
Delta R.T. -0.023 min
Lab File: VN076830.D
Acq: 28 Feb 2023 16:10

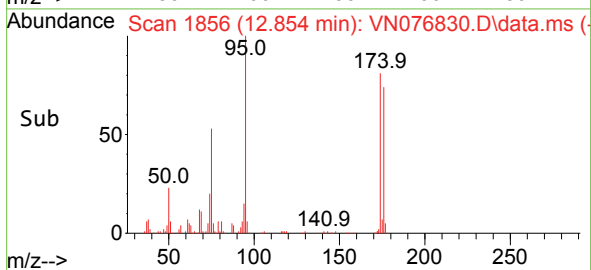
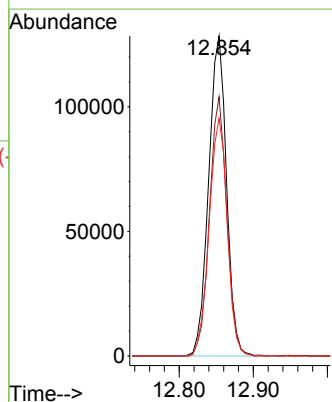
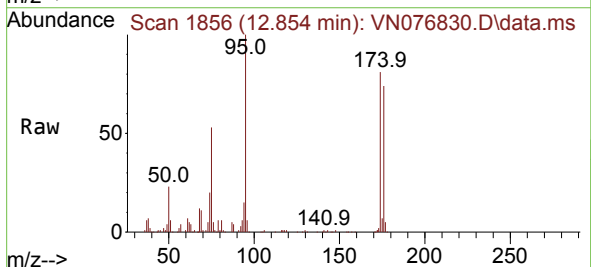
Instrument :
MSVOA_N
ClientSampleId :
PB151081ZHE#02

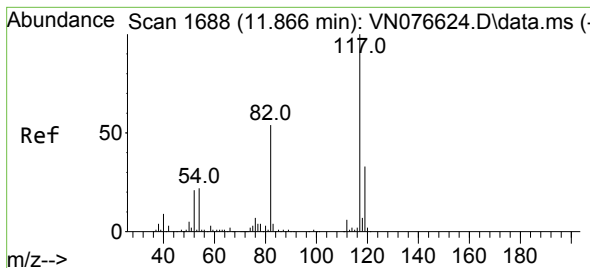
Tgt Ion: 43 Resp: 242013
Ion Ratio Lower Upper
43 100
58 0.0 25.4 76.0#



#62
4-Bromofluorobenzene
Concen: 48.854 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN076830.D
Acq: 28 Feb 2023 16:10

Tgt Ion: 95 Resp: 214837
Ion Ratio Lower Upper
95 100
174 79.1 0.0 169.2
176 75.1 0.0 163.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.866 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN076830.D

Acq: 28 Feb 2023 16:10

Instrument :

MSVOA_N

ClientSampleId :

PB151081ZHE#02

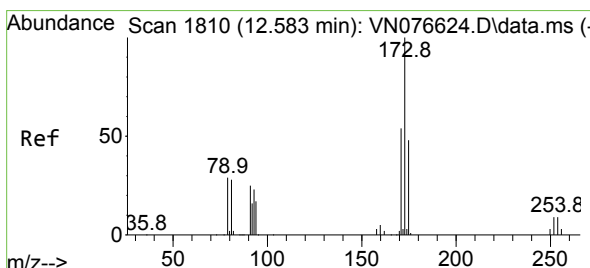
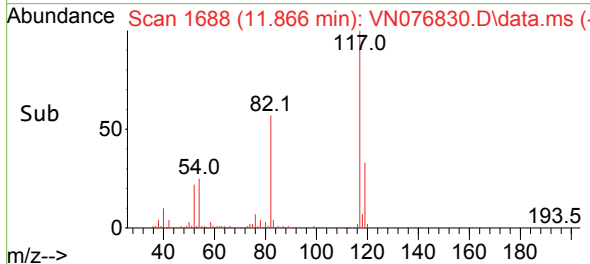
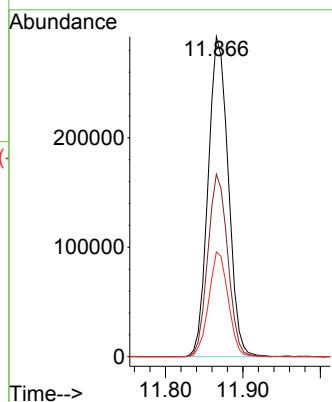
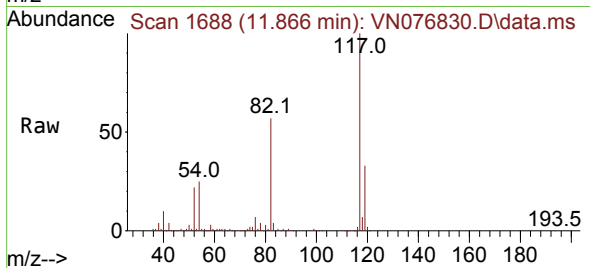
Tgt Ion:117 Resp: 527654

Ion Ratio Lower Upper

117 100

82 57.0 43.4 65.2

119 32.7 26.1 39.1



#71

Bromoform

Concen: 1.113 ug/l

RT: 12.854 min Scan# 1856

Delta R.T. 0.271 min

Lab File: VN076830.D

Acq: 28 Feb 2023 16:10

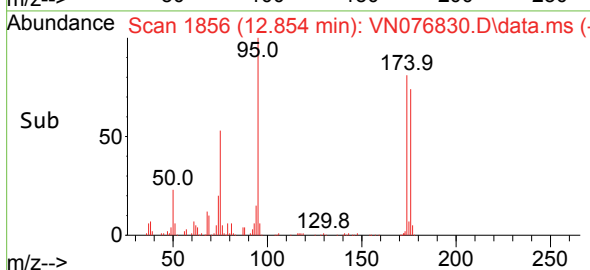
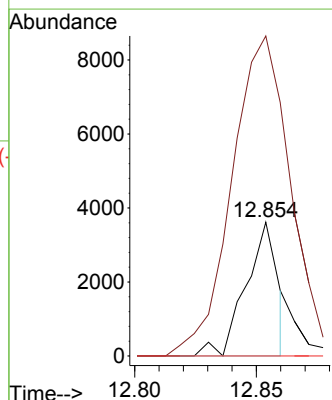
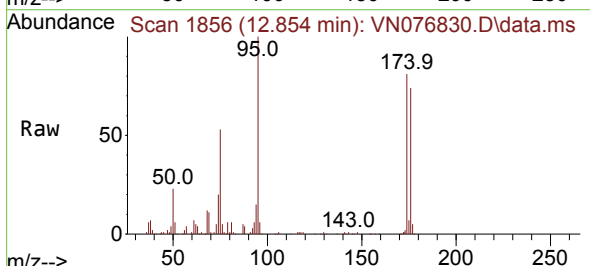
Tgt Ion:173 Resp: 3317

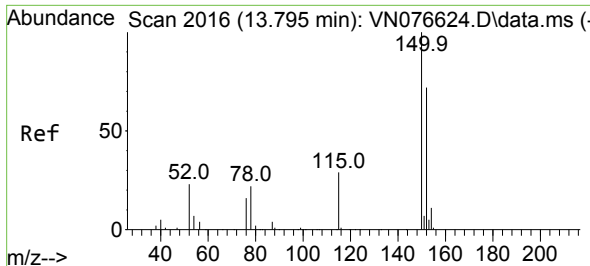
Ion Ratio Lower Upper

173 100

175 365.9 24.9 74.7#

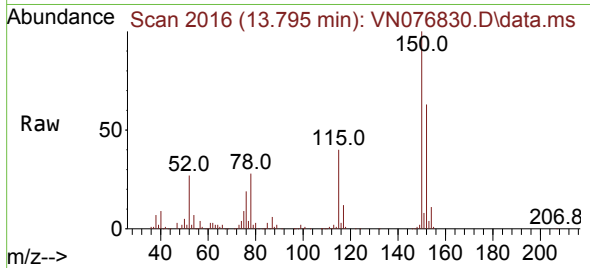
254 0.0 0.1 0.1#



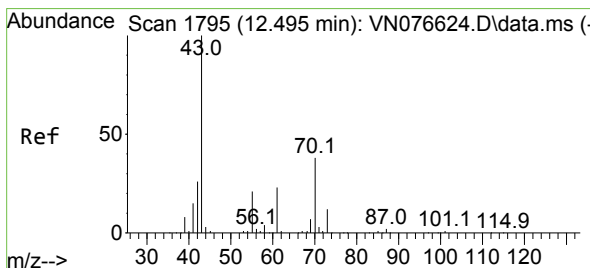
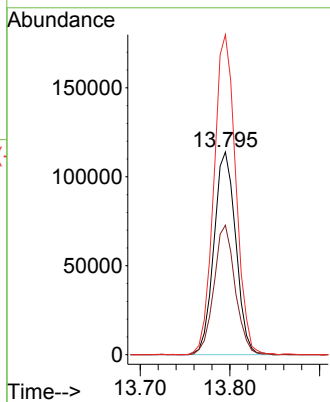
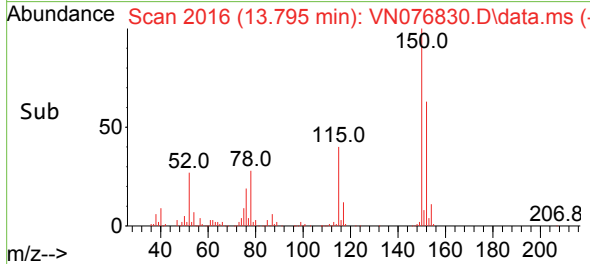


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.795 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN076830.D
Acq: 28 Feb 2023 16:10

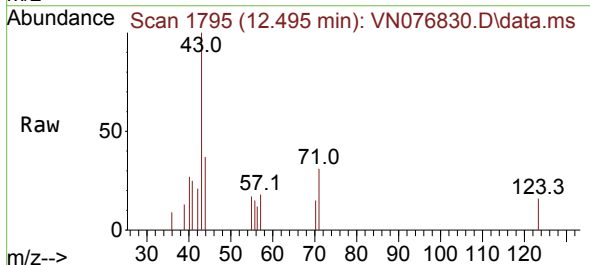
Instrument :
MSVOA_N
ClientSampleId :
PB151081ZHE#02



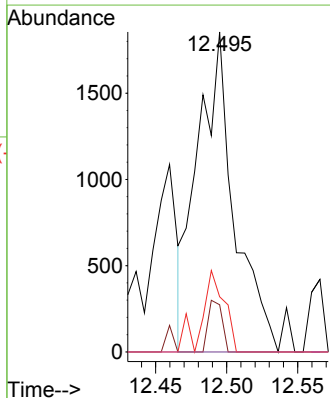
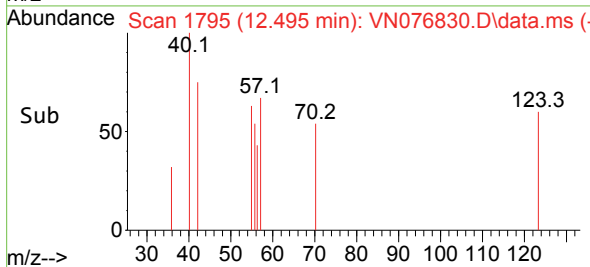
Tgt Ion:152 Resp: 192467
Ion Ratio Lower Upper
152 100
115 62.1 29.3 87.9
150 158.1 0.0 349.8

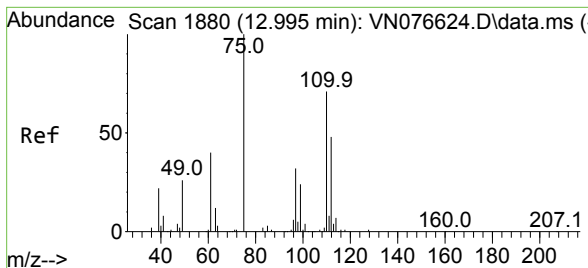


#74
N-ethyl acetate
Concen: 0.524 ug/l
RT: 12.495 min Scan# 1795
Delta R.T. 0.000 min
Lab File: VN076830.D
Acq: 28 Feb 2023 16:10



Tgt Ion: 43 Resp: 3335
Ion Ratio Lower Upper
43 100
70 6.1 30.5 45.7#
55 15.7 17.8 26.8#
61 0.0 17.8 26.8#





#76

1,2,3-Trichloropropane

Concen: 30.864 ug/l

RT: 12.854 min Scan# 1856

Delta R.T. -0.141 min

Lab File: VN076830.D

Acq: 28 Feb 2023 16:10

Instrument :

MSVOA_N

ClientSampleId :

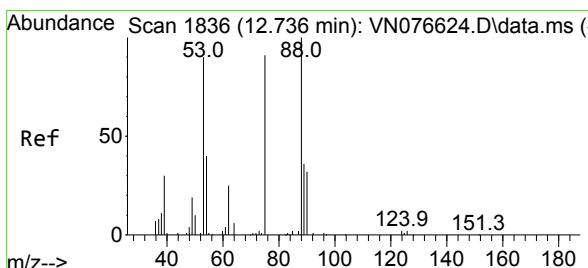
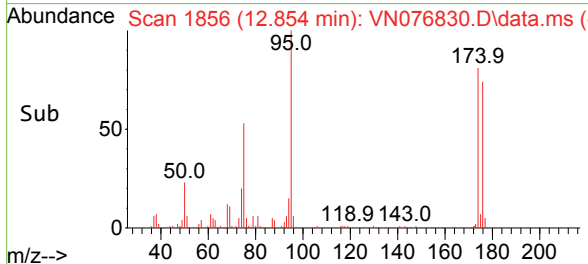
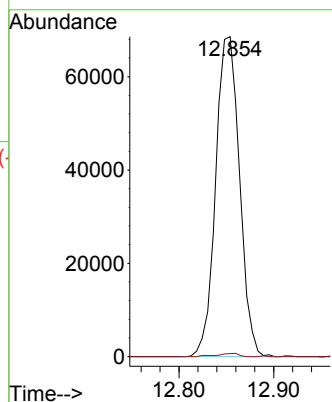
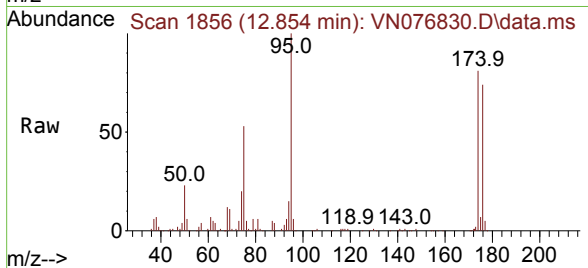
PB151081ZHE#02

Tgt Ion: 75 Resp: 120096

Ion Ratio Lower Upper

75 100

77 1.0 93.1 279.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 89.893 ug/l

RT: 12.854 min Scan# 1856

Delta R.T. 0.118 min

Lab File: VN076830.D

Acq: 28 Feb 2023 16:10

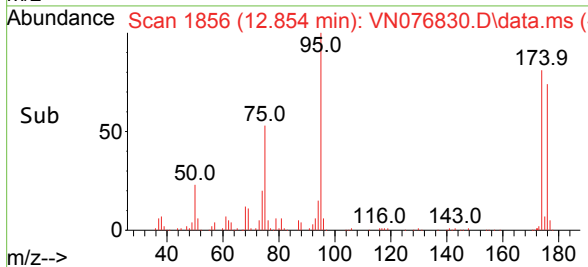
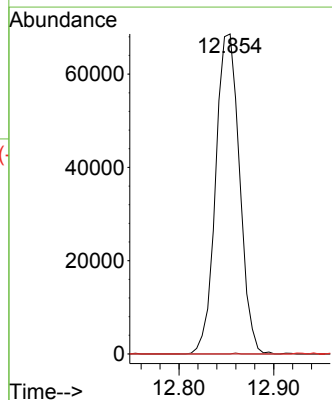
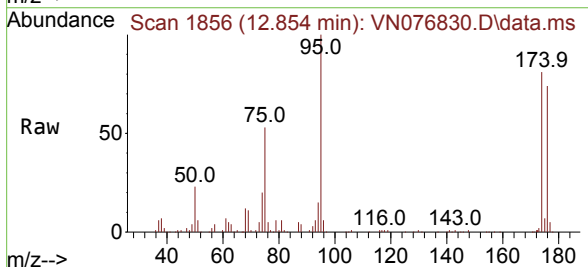
Tgt Ion: 75 Resp: 120096

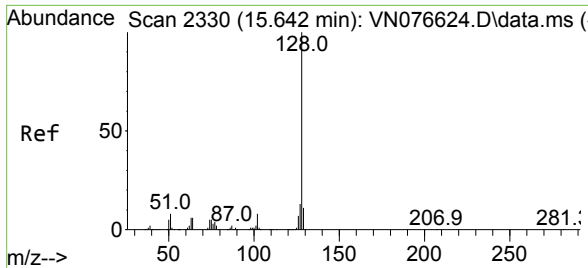
Ion Ratio Lower Upper

75 100

53 0.1 92.1 138.1#

89 0.0 37.5 56.3#





#95

Naphthalene

Concen: 0.237 ug/l

RT: 15.654 min Scan# 21

Delta R.T. 0.012 min

Lab File: VN076830.D

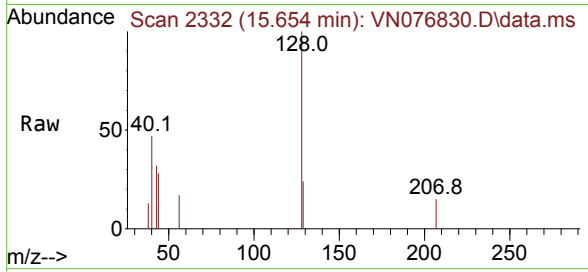
Acq: 28 Feb 2023 16:10

Instrument :

MSVOA_N

ClientSampleId :

PB151081ZHE#02



Tgt Ion:128 Resp: 2442

Ion Ratio Lower Upper

128 100

127 2.3 10.6 16.0#

129 7.7 8.6 13.0#

