

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022823\
 Data File : VN076832.D
 Acq On : 28 Feb 2023 16:57
 Operator : JC\MD
 Sample : PB151081ZHE#04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB151081ZHE#04

Quant Time: Mar 01 01:30:06 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)

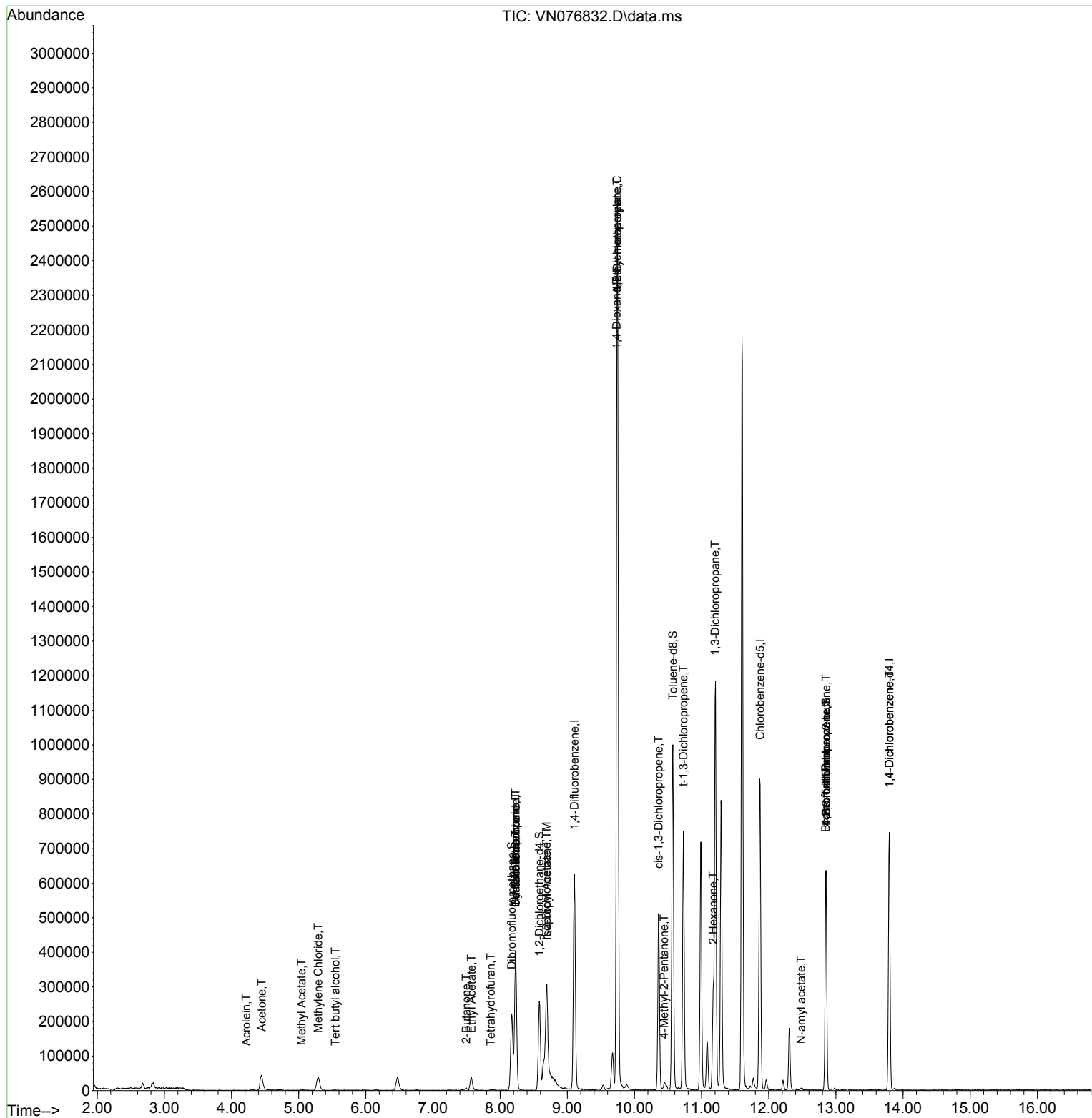
Internal Standards						
1) Pentafluorobenzene	8.231	168	285172	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	517028	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.872	117	507548	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	191108	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.584	65	198515	50.413	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.820%			
35) Dibromofluoromethane	8.172	113	154071	45.503	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 91.000%			
50) Toluene-d8	10.572	98	655988	51.878	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.760%			
62) 4-Bromofluorobenzene	12.854	95	202117	48.261	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 96.520%			
Target Compounds						Qvalue
11) Tert butyl alcohol	5.548	59	1648	3.171	ug/l #	84
13) Acrolein	4.219	56	322	0.413	ug/l #	14
16) Acetone	4.449	43	83784	47.632	ug/l #	87
18) Methyl Acetate	5.043	43	5405	0.941	ug/l #	54
20) Methylene Chloride	5.290	84	28036	7.605	ug/l	95
25) 2-Butanone	7.495	43	9059	3.491	ug/l #	90
29) Tetrahydrofuran	7.860	42	1224	0.722	ug/l #	72
31) Cyclohexane	8.231	56	7817	1.265	ug/l #	1
36) 1,1-Dichloropropene	8.231	75	25797	5.273	ug/l #	51
37) Ethyl Acetate	7.572	43	61363	11.922	ug/l #	95
38) Carbon Tetrachloride	8.231	117	29843	6.047	ug/l #	15
42) 1,2-Dichloroethane	8.689	62	2101	0.401	ug/l	81
43) Isopropyl Acetate	8.695	43	482663	57.628	ug/l #	76
45) 1,2-Dichloropropane	9.742	63	3568	0.897	ug/l #	44
48) Methyl methacrylate	9.742	41	236992	59.629	ug/l #	45
49) 1,4-Dioxane	9.736	88	271	3.942	ug/l #	1
51) 4-Methyl-2-Pentanone	10.442	43	24193	4.540	ug/l #	78
53) t-1,3-Dichloropropene	10.730	75	1638	0.333	ug/l #	44
54) cis-1,3-Dichloropropene	10.360	75	86608	15.261	ug/l #	69
57) 1,3-Dichloropropane	11.201	76	11288	1.781	ug/l #	46
59) 2-Hexanone	11.172	43	234211	60.955	ug/l #	27
71) Bromoform	12.848	173	2057	0.718	ug/l #	1
74) N-amyl acetate	12.483	43	2327	0.369	ug/l #	60
76) 1,2,3-Trichloropropane	12.854	75	116640	30.189	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.854	75	116640	87.927	ug/l #	4
88) 1,4-Dichlorobenzene	13.795	146	1490	0.226	ug/l #	1

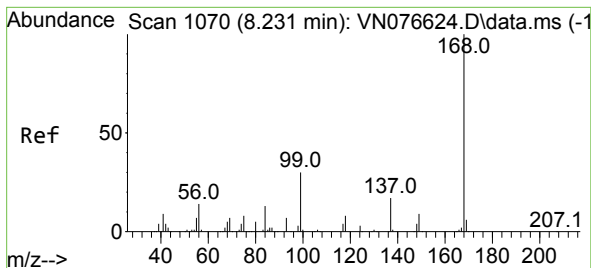
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022823\
Data File : VN076832.D
Acq On : 28 Feb 2023 16:57
Operator : JC\MD
Sample : PB151081ZHE#04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
PB151081ZHE#04

Quant Time: Mar 01 01:30:06 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

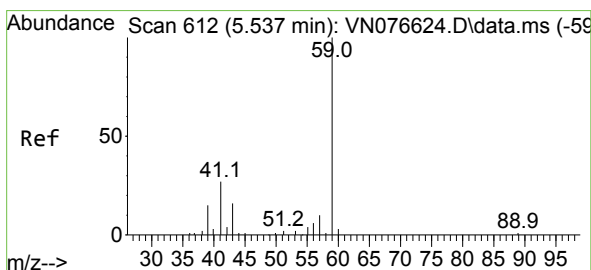
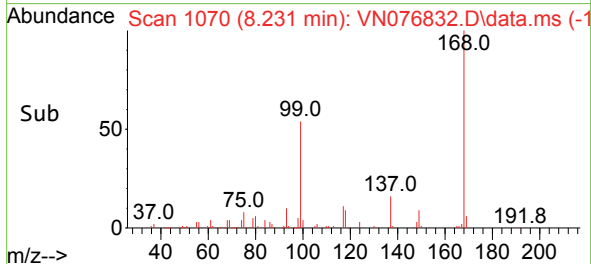
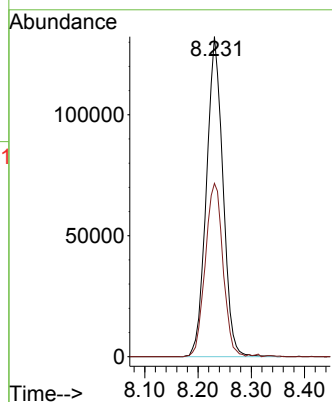
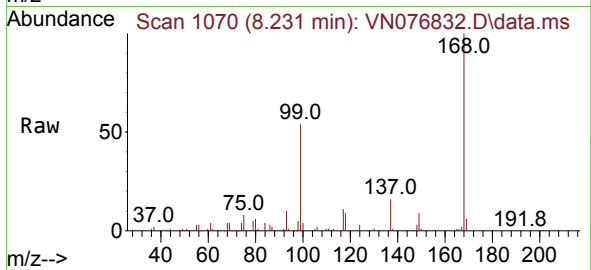




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VN076832.D
Acq: 28 Feb 2023 16:57

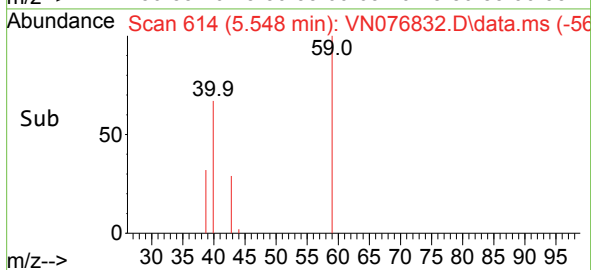
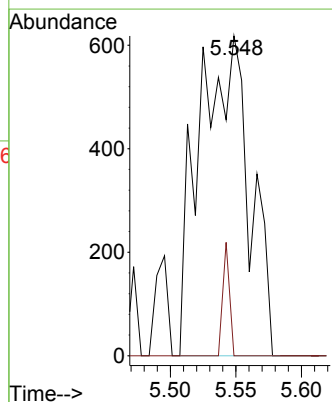
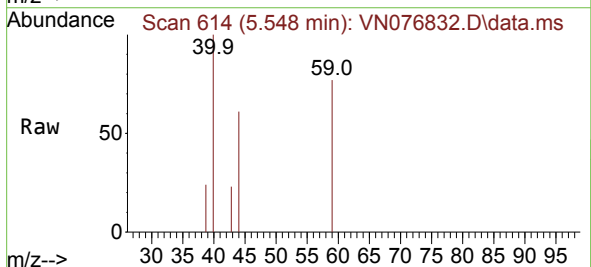
Instrument :
MSVOA_N
ClientSampleId :
PB151081ZHE#04

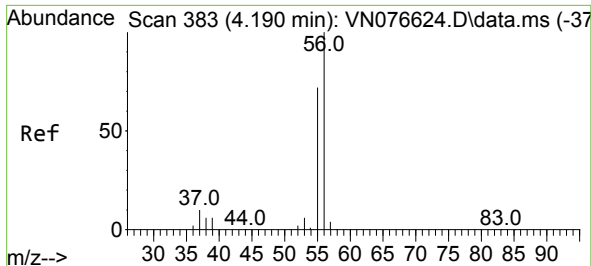
Tgt Ion:168 Resp: 285172
Ion Ratio Lower Upper
168 100
99 54.2 44.8 67.2



#11
Tert butyl alcohol
Concen: 3.171 ug/l
RT: 5.548 min Scan# 614
Delta R.T. 0.011 min
Lab File: VN076832.D
Acq: 28 Feb 2023 16:57

Tgt Ion: 59 Resp: 1648
Ion Ratio Lower Upper
59 100
57 4.7 8.7 13.1#

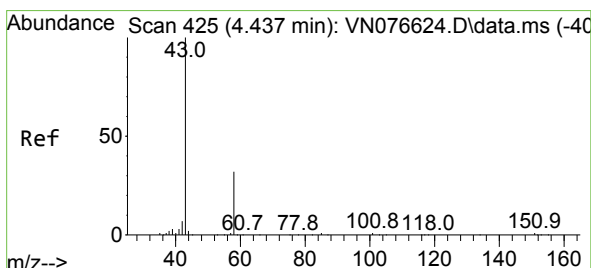
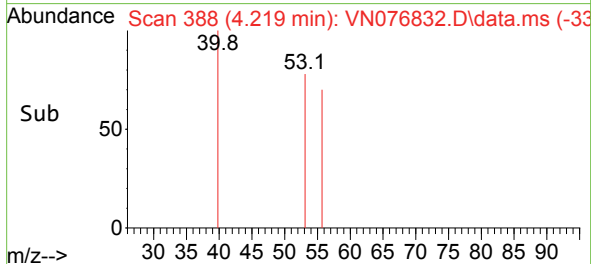
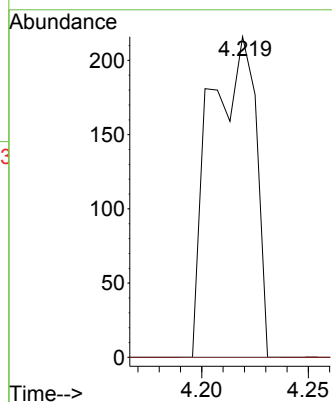
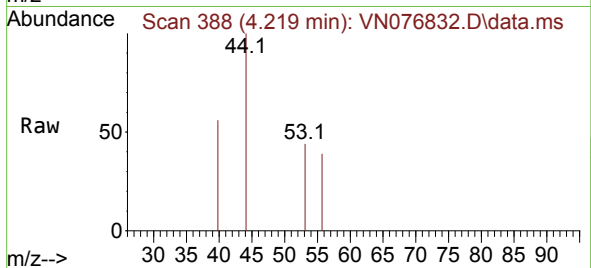




#13
Acrolein
Concen: 0.413 ug/l
RT: 4.219 min Scan# 31
Delta R.T. 0.029 min
Lab File: VN076832.D
Acq: 28 Feb 2023 16:57

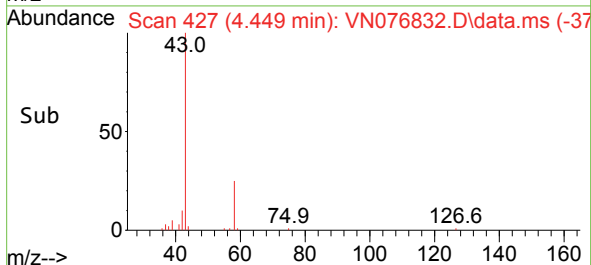
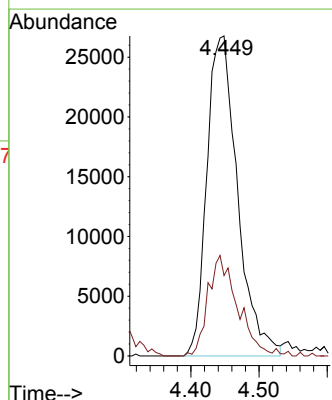
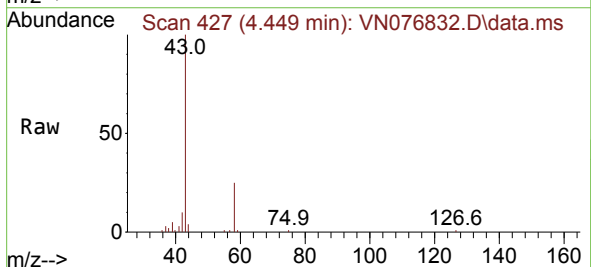
Instrument :
MSVOA_N
ClientSampleId :
PB151081ZHE#04

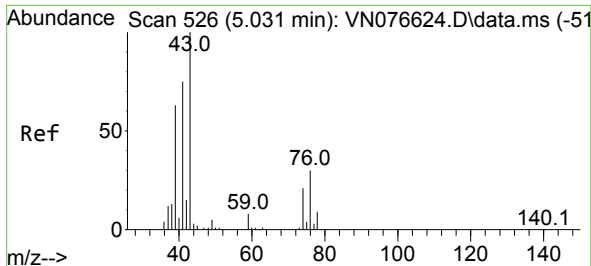
Tgt Ion: 56 Resp: 322
Ion Ratio Lower Upper
56 100
55 0.0 56.3 84.5#



#16
Acetone
Concen: 47.632 ug/l
RT: 4.449 min Scan# 427
Delta R.T. 0.012 min
Lab File: VN076832.D
Acq: 28 Feb 2023 16:57

Tgt Ion: 43 Resp: 83784
Ion Ratio Lower Upper
43 100
58 25.2 25.9 38.9#

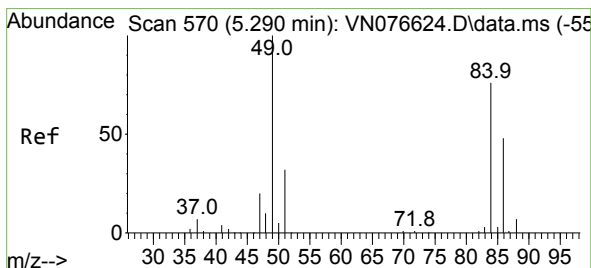
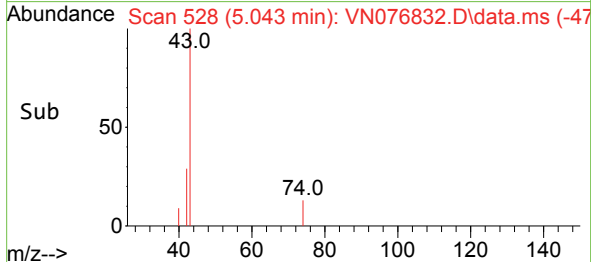
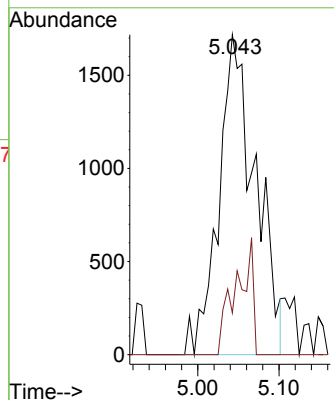
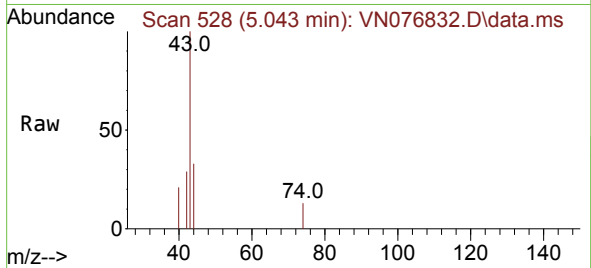




#18
Methyl Acetate
Concen: 0.941 ug/l
RT: 5.043 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN076832.D
Acq: 28 Feb 2023 16:57

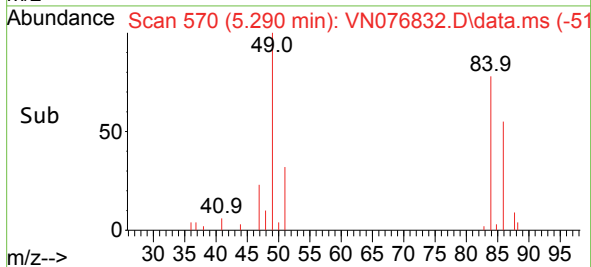
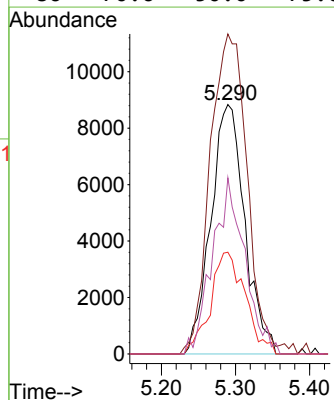
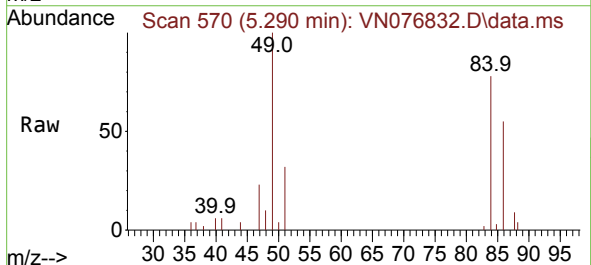
Instrument :
MSVOA_N
ClientSampleId :
PB151081ZHE#04

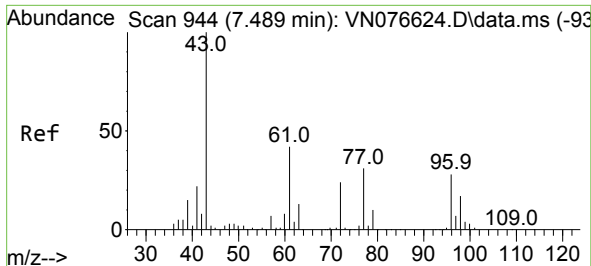
Tgt Ion: 43 Resp: 5405
Ion Ratio Lower Upper
43 100
74 0.0 17.7 26.5#



#20
Methylene Chloride
Concen: 7.605 ug/l
RT: 5.290 min Scan# 570
Delta R.T. -0.000 min
Lab File: VN076832.D
Acq: 28 Feb 2023 16:57

Tgt Ion: 84 Resp: 28036
Ion Ratio Lower Upper
84 100
49 128.3 104.9 157.3
51 40.8 33.8 50.8
86 70.6 50.0 75.0

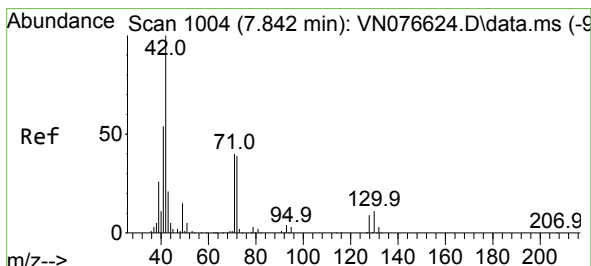
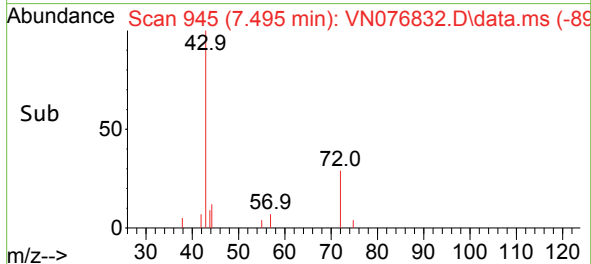
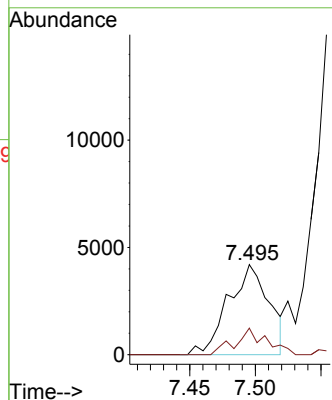
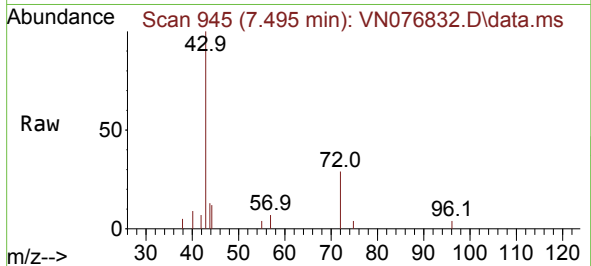




#25
2-Butanone
Concen: 3.491 ug/l
RT: 7.495 min Scan# 944
Delta R.T. 0.006 min
Lab File: VN076832.D
Acq: 28 Feb 2023 16:57

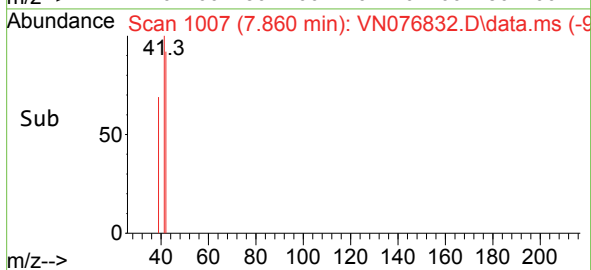
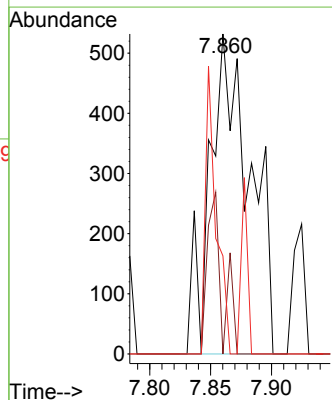
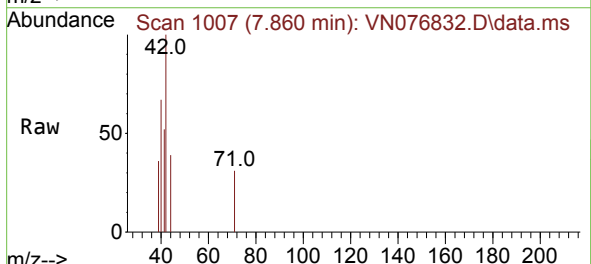
Instrument :
MSVOA_N
ClientSampleId :
PB151081ZHE#04

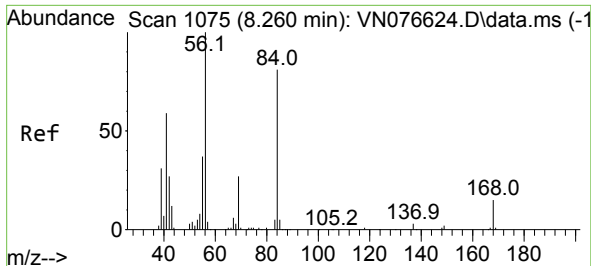
Tgt Ion: 43 Resp: 9059
Ion Ratio Lower Upper
43 100
72 29.4 19.4 29.2#



#29
Tetrahydrofuran
Concen: 0.722 ug/l
RT: 7.860 min Scan# 1007
Delta R.T. 0.018 min
Lab File: VN076832.D
Acq: 28 Feb 2023 16:57

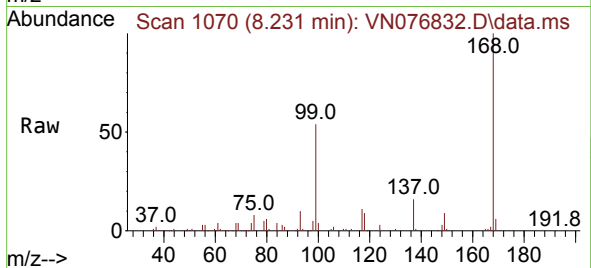
Tgt Ion: 42 Resp: 1224
Ion Ratio Lower Upper
42 100
72 18.8 31.5 47.3#
71 24.0 29.8 44.8#



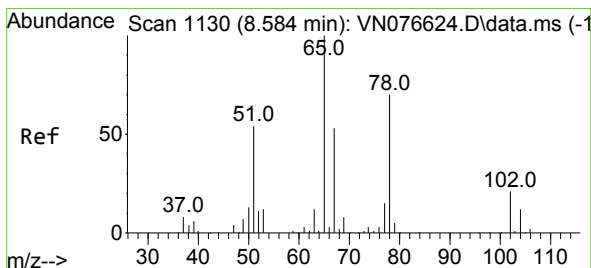
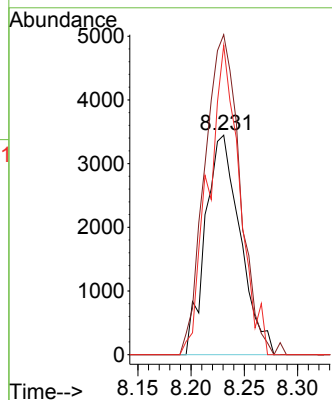
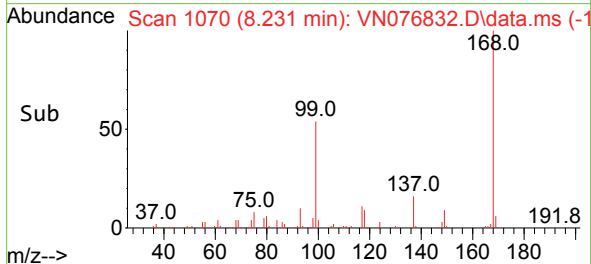


#31
Cyclohexane
Concen: 1.265 ug/l
RT: 8.231 min Scan# 1075
Delta R.T. -0.029 min
Lab File: VN076832.D
Acq: 28 Feb 2023 16:57

Instrument :
MSVOA_N
ClientSampleId :
PB151081ZHE#04

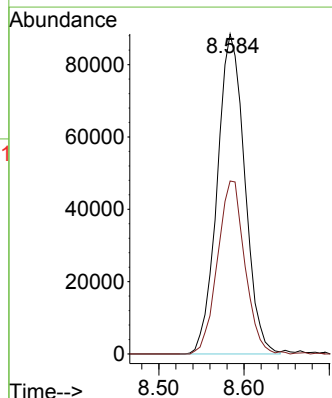
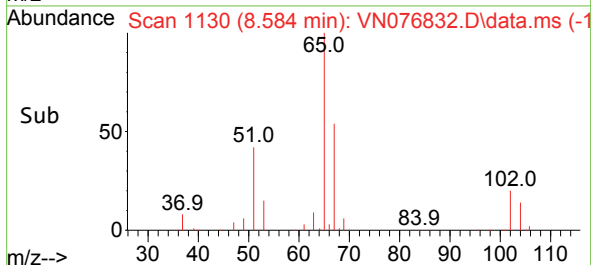
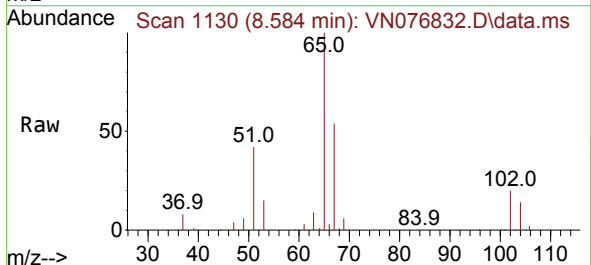


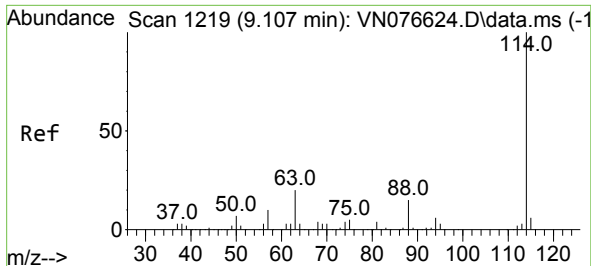
Tgt Ion: 56 Resp: 7817
Ion Ratio Lower Upper
56 100
69 145.8 21.6 32.4#
84 140.9 65.1 97.7#



#33
1,2-Dichloroethane-d4
Concen: 50.413 ug/l
RT: 8.584 min Scan# 1130
Delta R.T. -0.000 min
Lab File: VN076832.D
Acq: 28 Feb 2023 16:57

Tgt Ion: 65 Resp: 198515
Ion Ratio Lower Upper
65 100
67 53.7 0.0 105.6

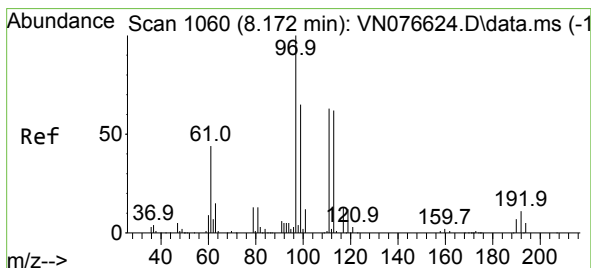
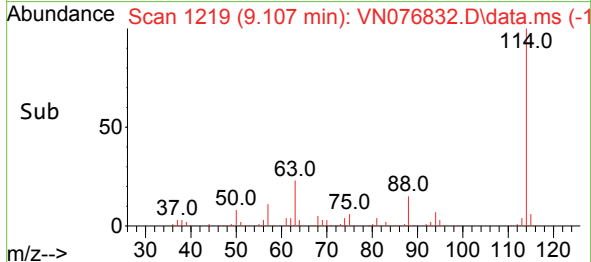
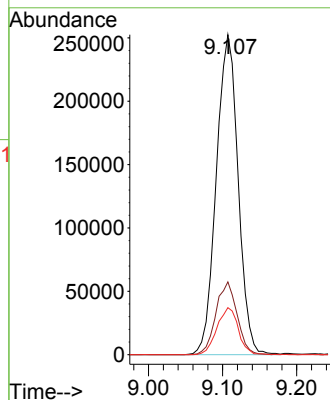
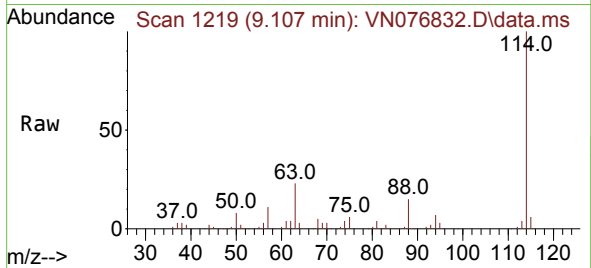




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.107 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN076832.D
Acq: 28 Feb 2023 16:57

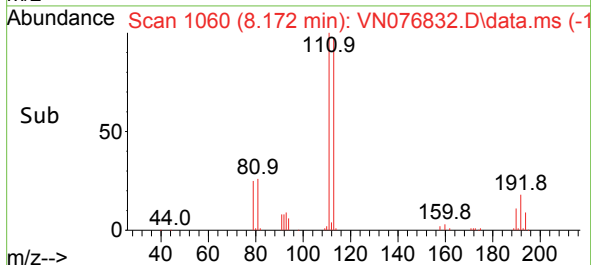
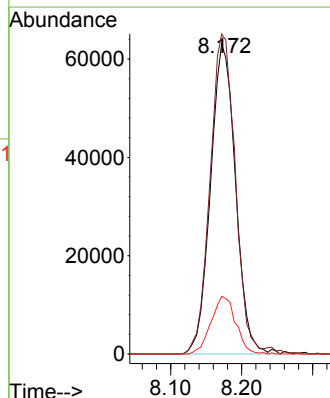
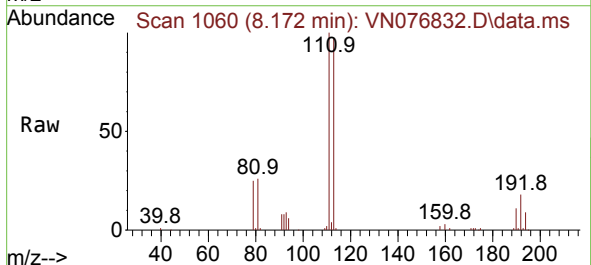
Instrument :
MSVOA_N
ClientSampleId :
PB151081ZHE#04

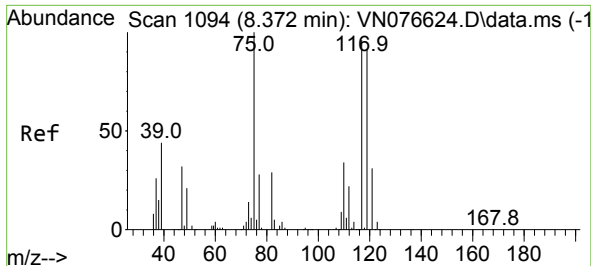
Tgt Ion:114 Resp: 517028
Ion Ratio Lower Upper
114 100
63 22.8 0.0 40.0
88 14.7 0.0 29.6



#35
Dibromofluoromethane
Concen: 45.503 ug/l
RT: 8.172 min Scan# 1060
Delta R.T. -0.000 min
Lab File: VN076832.D
Acq: 28 Feb 2023 16:57

Tgt Ion:113 Resp: 154071
Ion Ratio Lower Upper
113 100
111 103.7 83.1 124.7
192 18.4 15.6 23.4

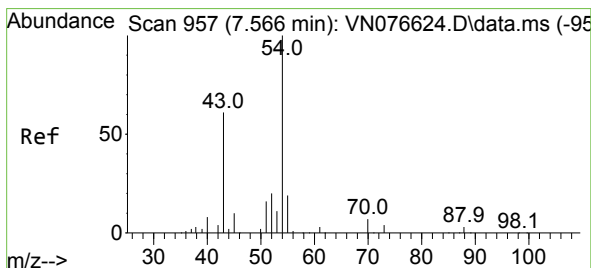
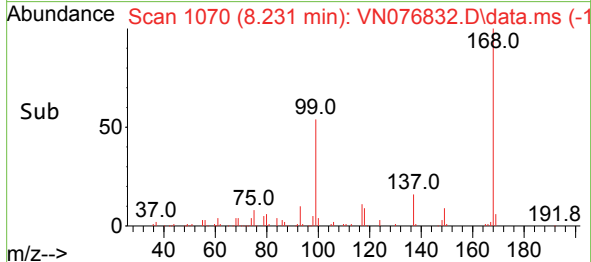
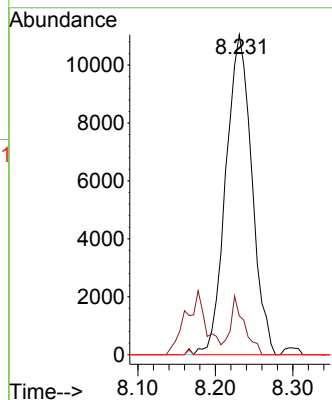
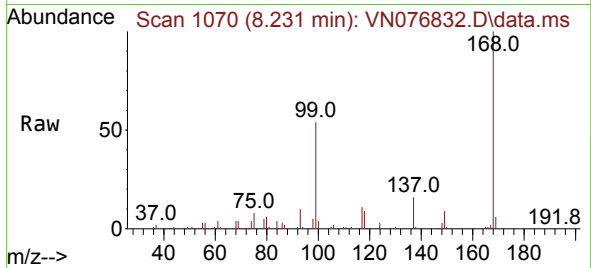




#36
1,1-Dichloropropene
Concen: 5.273 ug/l
RT: 8.231 min Scan# 1094
Delta R.T. -0.141 min
Lab File: VN076832.D
Acq: 28 Feb 2023 16:57

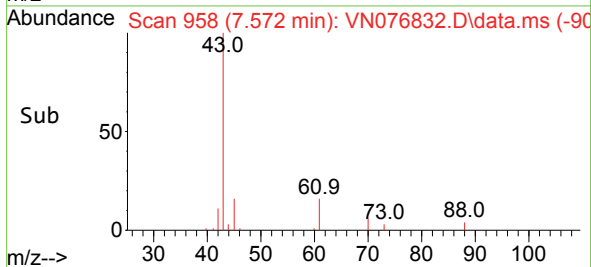
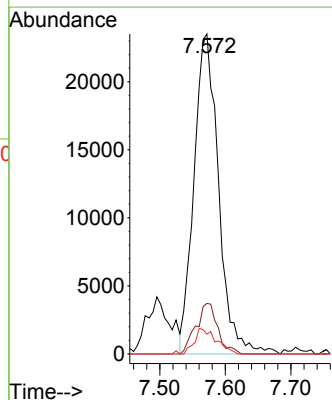
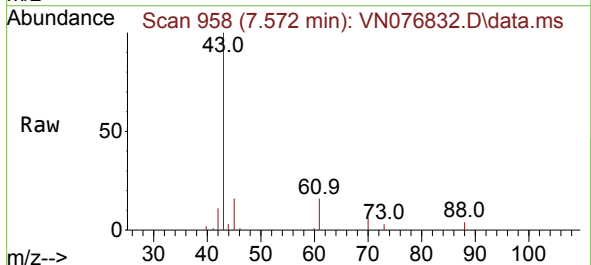
Instrument :
MSVOA_N
ClientSampleId :
PB151081ZHE#04

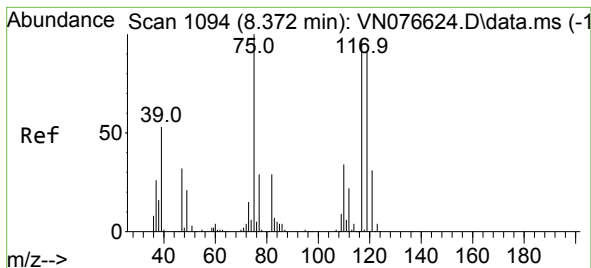
Tgt Ion: 75 Resp: 25797
Ion Ratio Lower Upper
75 100
110 10.0 17.5 52.5#
77 0.0 24.5 36.7#



#37
Ethyl Acetate
Concen: 11.922 ug/l
RT: 7.572 min Scan# 958
Delta R.T. 0.006 min
Lab File: VN076832.D
Acq: 28 Feb 2023 16:57

Tgt Ion: 43 Resp: 61363
Ion Ratio Lower Upper
43 100
61 14.0 9.9 14.9
70 7.1 7.8 11.6#





#38

Carbon Tetrachloride

Concen: 6.047 ug/l

RT: 8.231 min Scan# 1

Delta R.T. -0.141 min

Lab File: VN076832.D

Acq: 28 Feb 2023 16:57

Instrument :

MSVOA_N

ClientSampleId :

PB151081ZHE#04

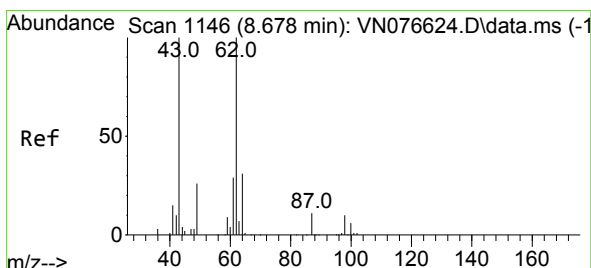
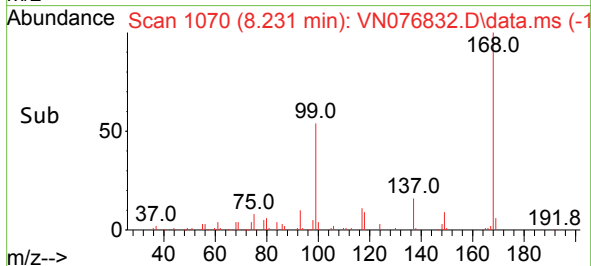
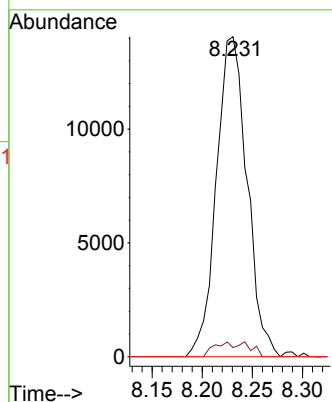
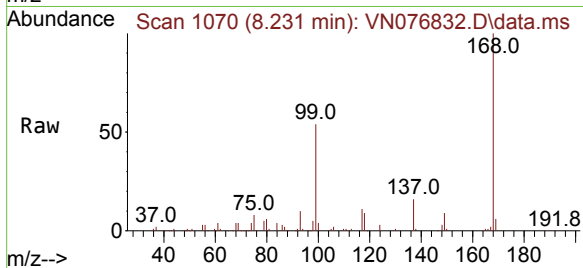
Tgt Ion:117 Resp: 29843

Ion Ratio Lower Upper

117 100

119 2.8 75.4 113.0#

121 0.0 26.0 39.0#



#42

1,2-Dichloroethane

Concen: 0.401 ug/l

RT: 8.689 min Scan# 1148

Delta R.T. 0.011 min

Lab File: VN076832.D

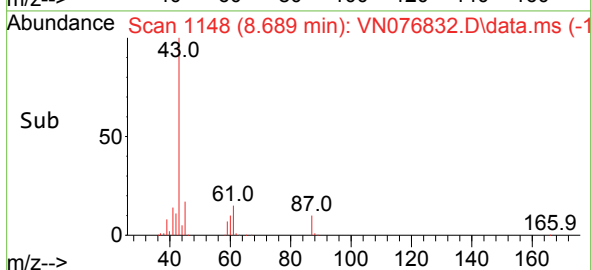
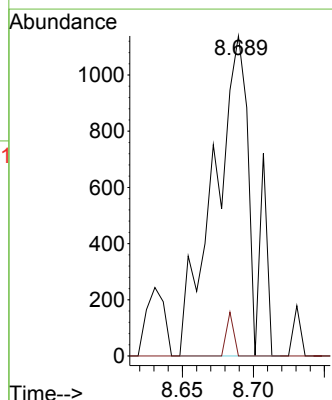
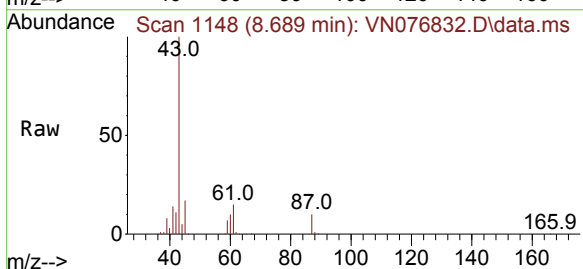
Acq: 28 Feb 2023 16:57

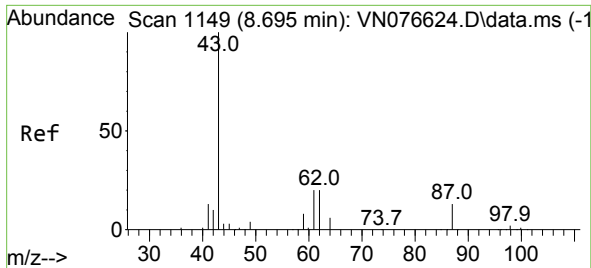
Tgt Ion: 62 Resp: 2101

Ion Ratio Lower Upper

62 100

98 2.6 0.0 19.2

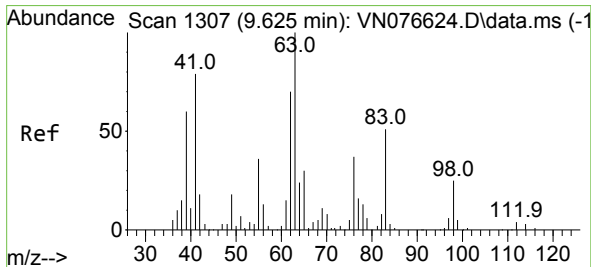
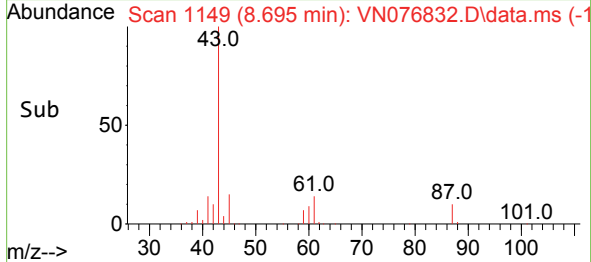
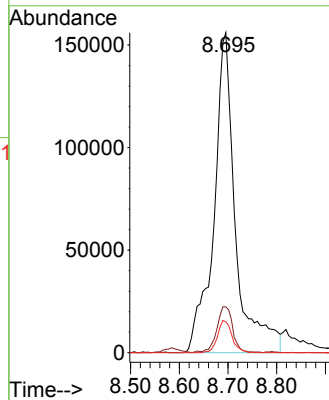
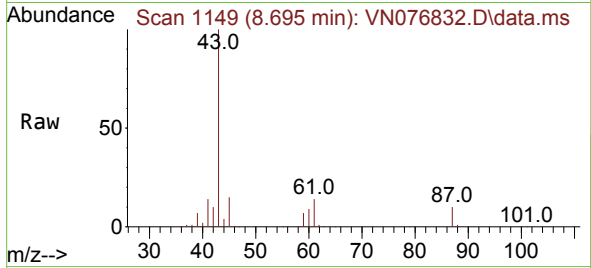




#43
Isopropyl Acetate
Concen: 57.628 ug/l
RT: 8.695 min Scan# 1149
Delta R.T. 0.000 min
Lab File: VN076832.D
Acq: 28 Feb 2023 16:57

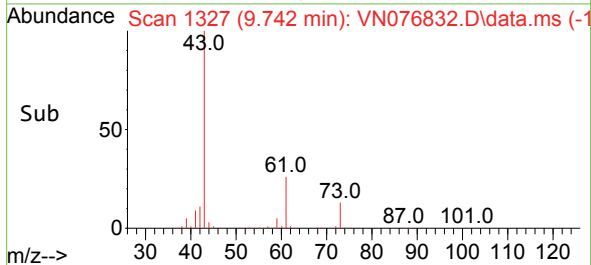
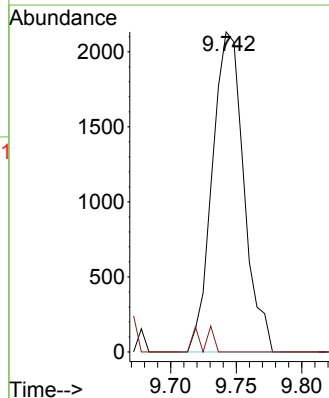
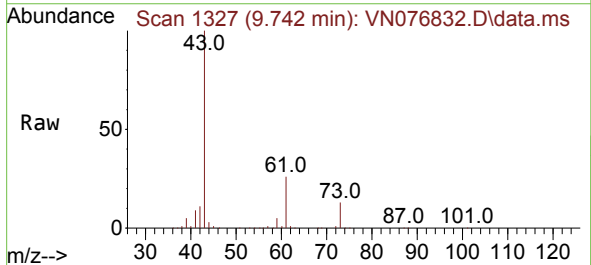
Instrument :
MSVOA_N
ClientSampleId :
PB151081ZHE#04

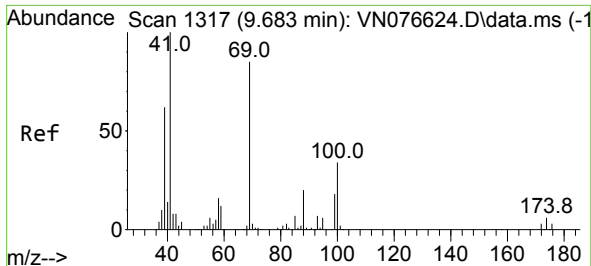
Tgt Ion: 43 Resp: 482663
Ion Ratio Lower Upper
43 100
61 10.7 20.0 30.0#
87 6.7 9.9 14.9#



#45
1,2-Dichloropropane
Concen: 0.897 ug/l
RT: 9.742 min Scan# 1327
Delta R.T. 0.117 min
Lab File: VN076832.D
Acq: 28 Feb 2023 16:57

Tgt Ion: 63 Resp: 3568
Ion Ratio Lower Upper
63 100
65 0.0 24.2 36.2#

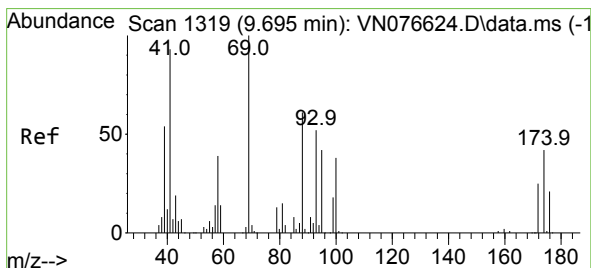
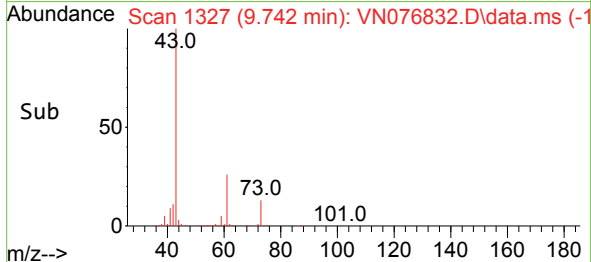
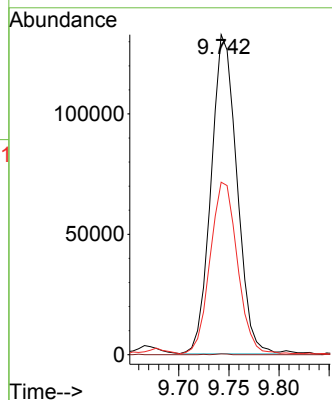
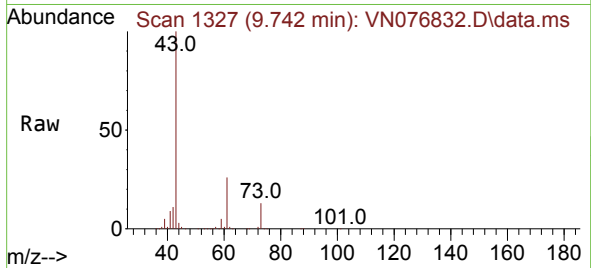




#48
Methyl methacrylate
Concen: 59.629 ug/l
RT: 9.742 min Scan# 1327
Delta R.T. 0.059 min
Lab File: VN076832.D
Acq: 28 Feb 2023 16:57

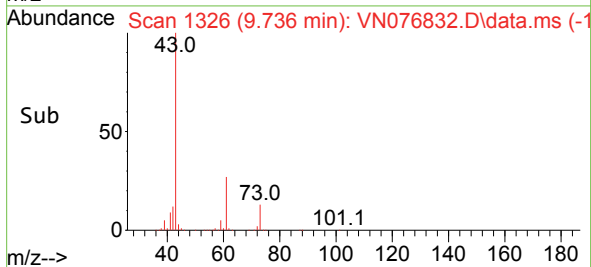
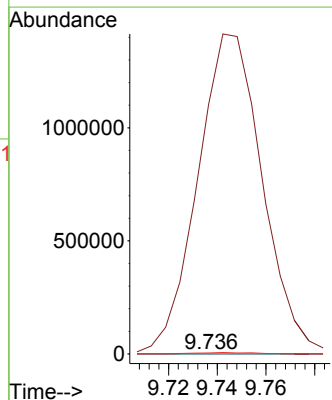
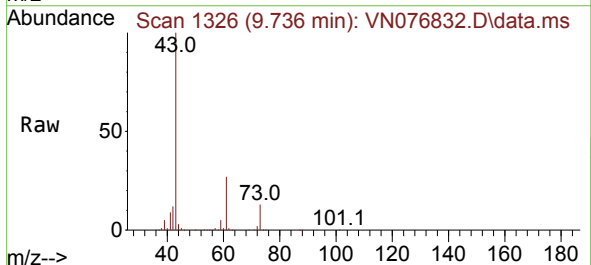
Instrument :
MSVOA_N
ClientSampleId :
PB151081ZHE#04

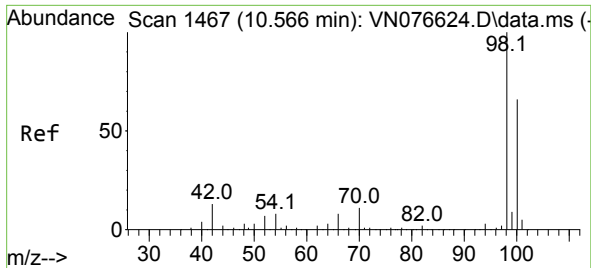
Tgt Ion: 41 Resp: 236992
Ion Ratio Lower Upper
41 100
69 0.1 65.4 98.0#
39 57.2 49.3 73.9



#49
1,4-Dioxane
Concen: 3.942 ug/l
RT: 9.736 min Scan# 1326
Delta R.T. 0.041 min
Lab File: VN076832.D
Acq: 28 Feb 2023 16:57

Tgt Ion: 88 Resp: 271
Ion Ratio Lower Upper
88 100
43 972515.5 22.6 33.8#
58 4255.0 57.6 86.4#

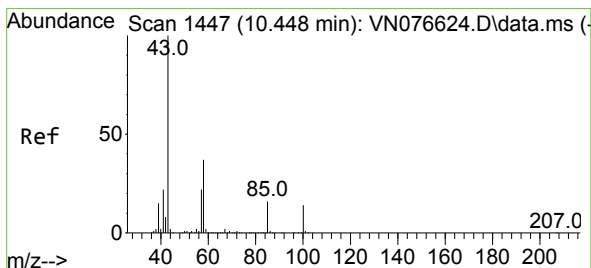
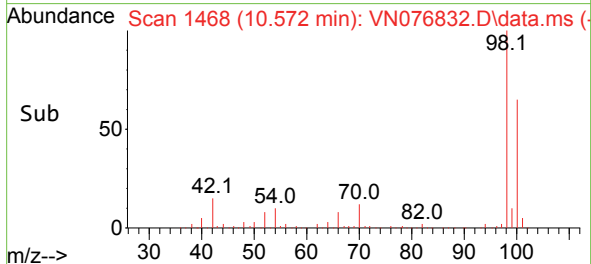
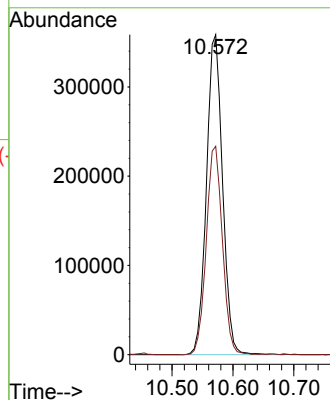
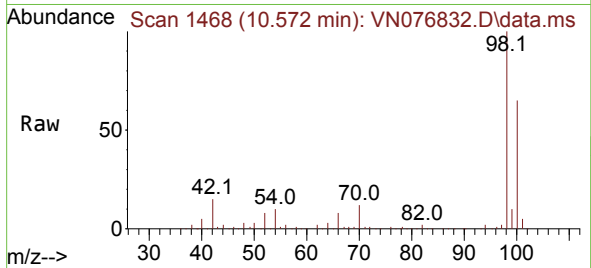




#50
Toluene-d8
Concen: 51.878 ug/l
RT: 10.572 min Scan# 1468
Delta R.T. 0.006 min
Lab File: VN076832.D
Acq: 28 Feb 2023 16:57

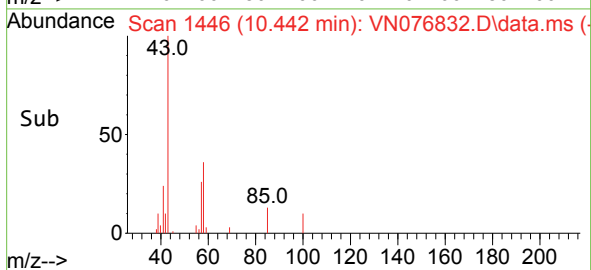
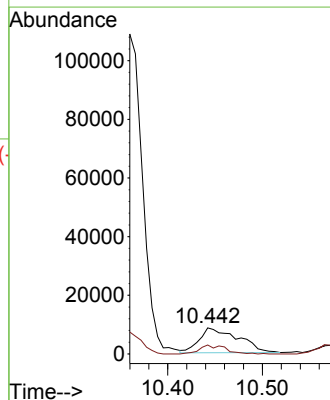
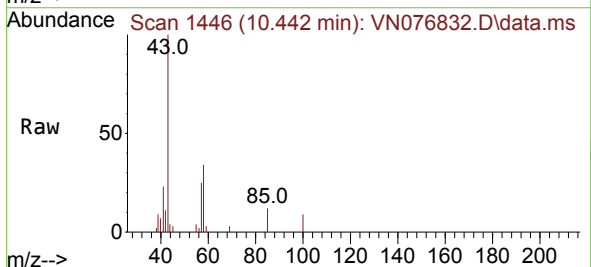
Instrument :
MSVOA_N
ClientSampleId :
PB151081ZHE#04

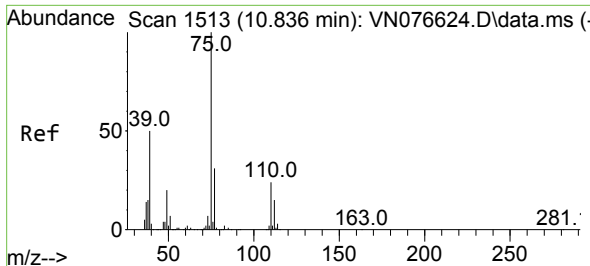
Tgt Ion: 98 Resp: 655988
Ion Ratio Lower Upper
98 100
100 65.5 52.9 79.3



#51
4-Methyl-2-Pentanone
Concen: 4.540 ug/l
RT: 10.442 min Scan# 1446
Delta R.T. -0.006 min
Lab File: VN076832.D
Acq: 28 Feb 2023 16:57

Tgt Ion: 43 Resp: 24193
Ion Ratio Lower Upper
43 100
58 24.0 29.5 44.3#

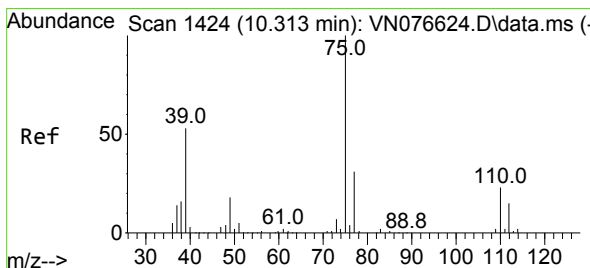
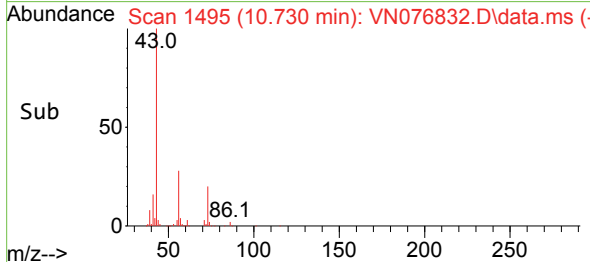
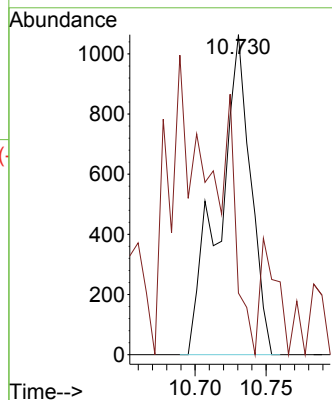
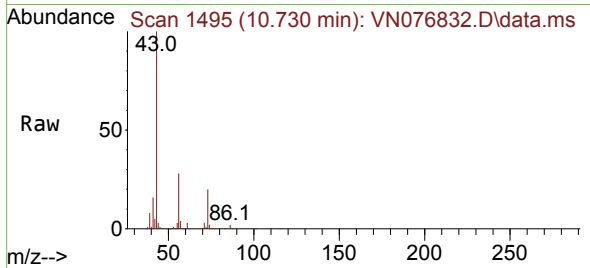




#53
t-1,3-Dichloropropene
Concen: 0.333 ug/l
RT: 10.730 min Scan# 1495
Delta R.T. -0.106 min
Lab File: VN076832.D
Acq: 28 Feb 2023 16:57

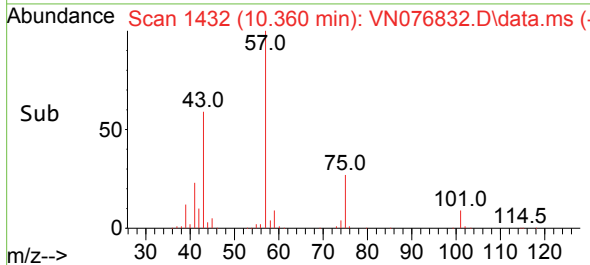
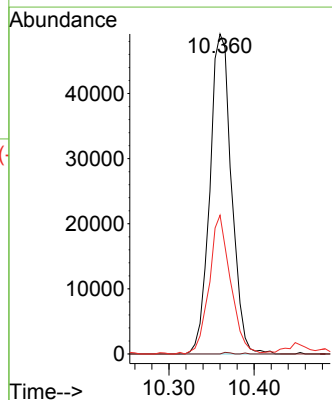
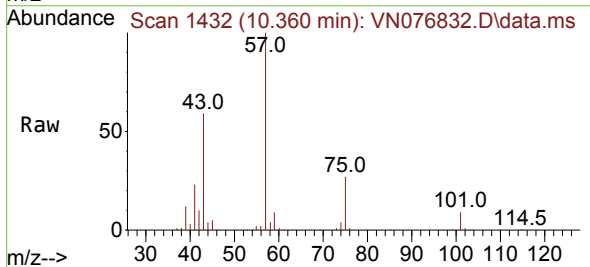
Instrument :
MSVOA_N
ClientSampleId :
PB151081ZHE#04

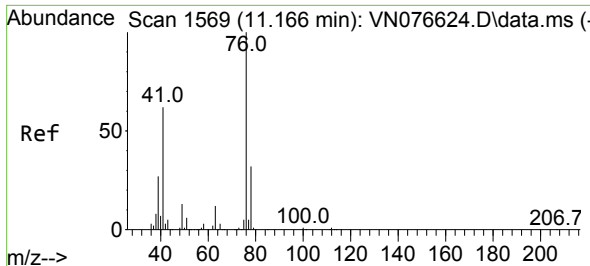
Tgt Ion: 75 Resp: 1638
Ion Ratio Lower Upper
75 100
77 0.0 24.6 37.0#



#54
cis-1,3-Dichloropropene
Concen: 15.261 ug/l
RT: 10.360 min Scan# 1432
Delta R.T. 0.047 min
Lab File: VN076832.D
Acq: 28 Feb 2023 16:57

Tgt Ion: 75 Resp: 86608
Ion Ratio Lower Upper
75 100
77 0.0 25.1 37.7#
39 41.9 42.3 63.5#





#57

1,3-Dichloropropane

Concen: 1.781 ug/l

RT: 11.201 min Scan# 11288

Delta R.T. 0.035 min

Lab File: VN076832.D

Acq: 28 Feb 2023 16:57

Instrument :

MSVOA_N

ClientSampleId :

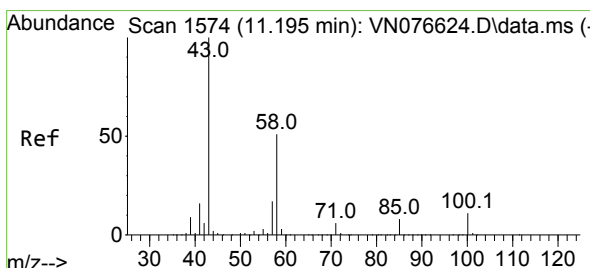
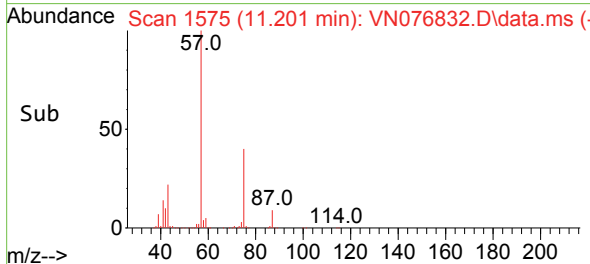
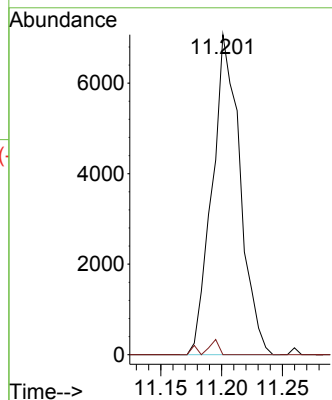
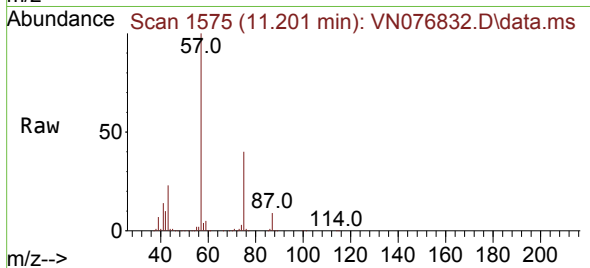
PB151081ZHE#04

Tgt Ion: 76 Resp: 11288

Ion Ratio Lower Upper

76 100

78 2.2 26.1 39.1#



#59

2-Hexanone

Concen: 60.955 ug/l

RT: 11.172 min Scan# 1570

Delta R.T. -0.023 min

Lab File: VN076832.D

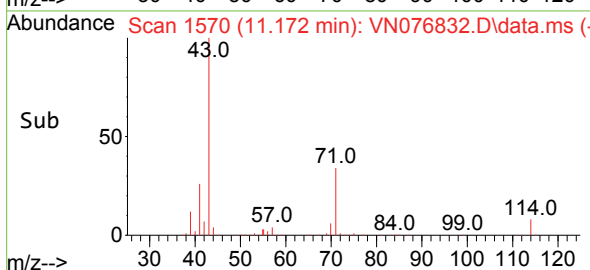
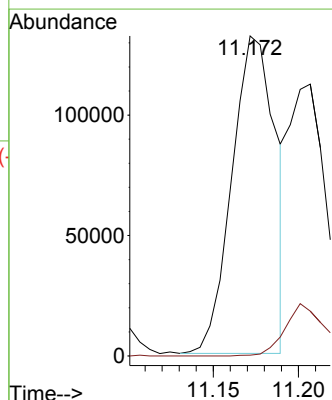
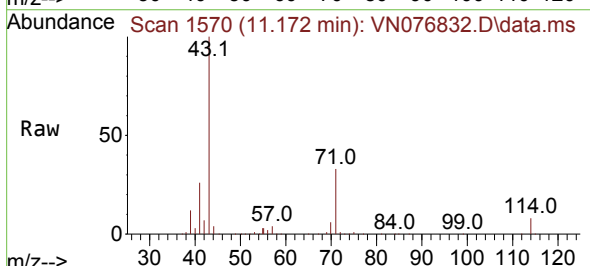
Acq: 28 Feb 2023 16:57

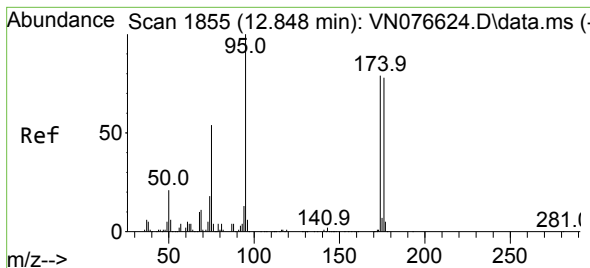
Tgt Ion: 43 Resp: 234211

Ion Ratio Lower Upper

43 100

58 0.0 25.4 76.0#

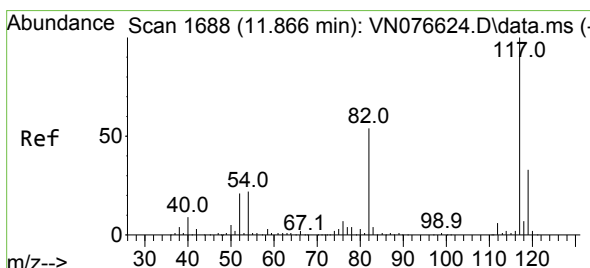
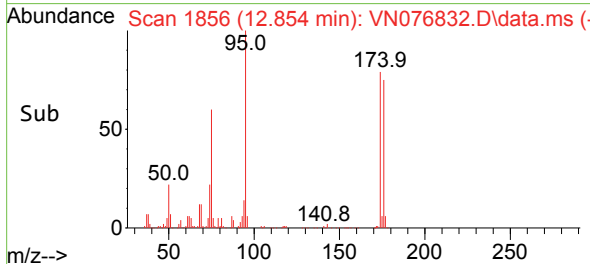
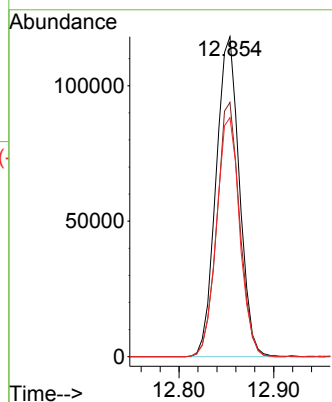
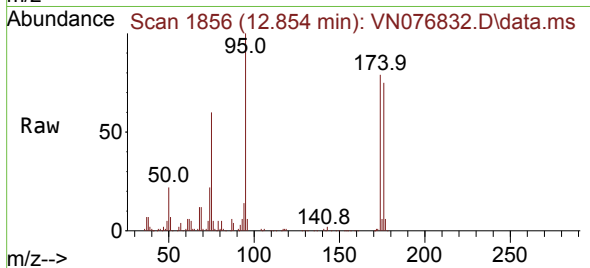




#62
4-Bromofluorobenzene
Concen: 48.261 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN076832.D
Acq: 28 Feb 2023 16:57

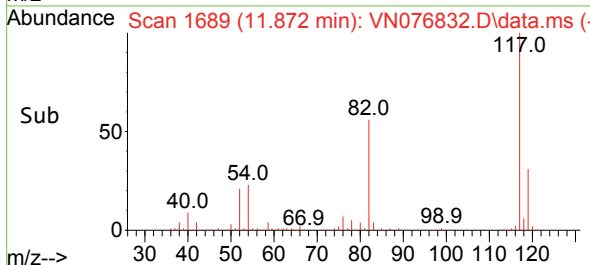
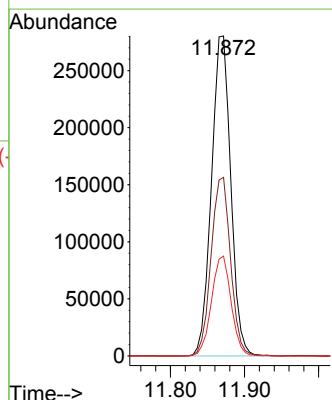
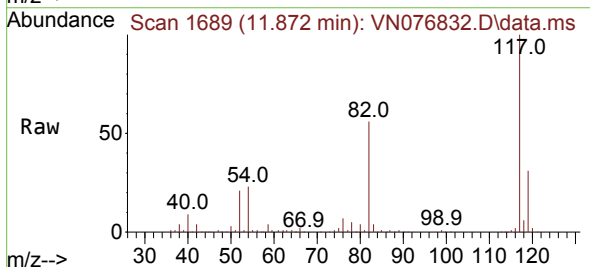
Instrument :
MSVOA_N
ClientSampleId :
PB151081ZHE#04

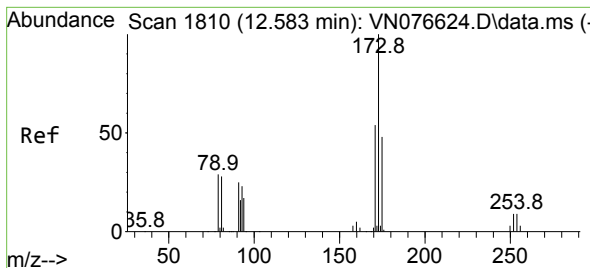
Tgt Ion: 95 Resp: 202117
Ion Ratio Lower Upper
95 100
174 77.6 0.0 169.2
176 74.6 0.0 163.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.872 min Scan# 1689
Delta R.T. 0.006 min
Lab File: VN076832.D
Acq: 28 Feb 2023 16:57

Tgt Ion: 117 Resp: 507548
Ion Ratio Lower Upper
117 100
82 55.8 43.4 65.2
119 31.2 26.1 39.1





#71

Bromoform

Concen: 0.718 ug/l

RT: 12.848 min Scan# 1810

Delta R.T. 0.265 min

Lab File: VN076832.D

Acq: 28 Feb 2023 16:57

Instrument :

MSVOA_N

ClientSampleId :

PB151081ZHE#04

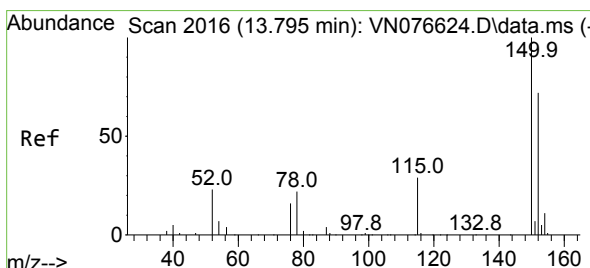
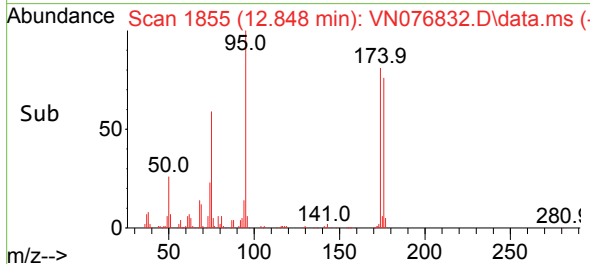
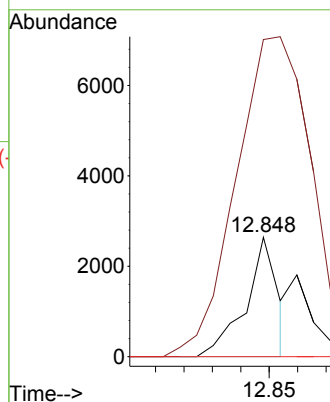
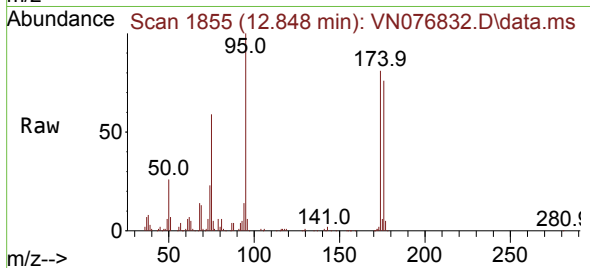
Tgt Ion:173 Resp: 2057

Ion Ratio Lower Upper

173 100

175 526.8 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: VN076832.D

Acq: 28 Feb 2023 16:57

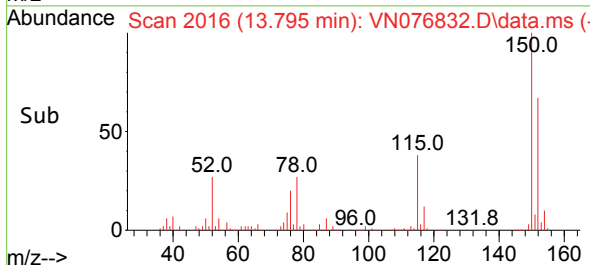
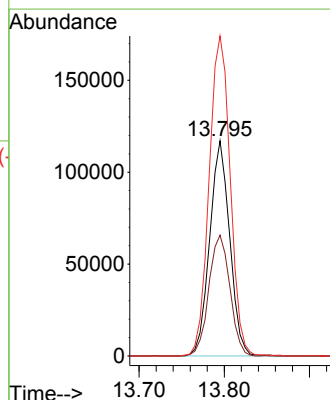
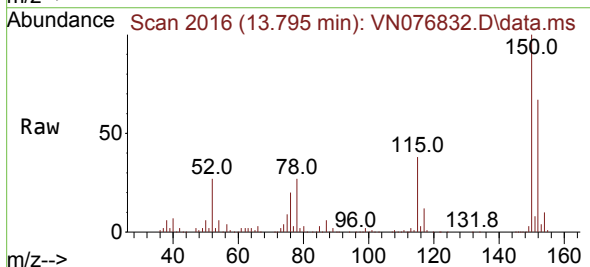
Tgt Ion:152 Resp: 191108

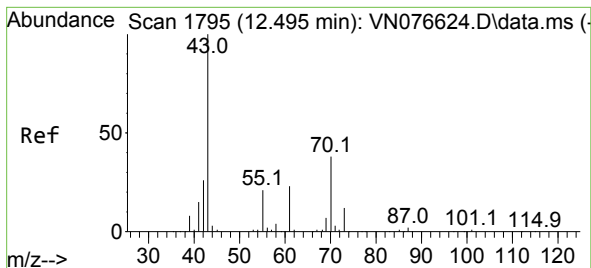
Ion Ratio Lower Upper

152 100

115 59.0 29.3 87.9

150 156.5 0.0 349.8

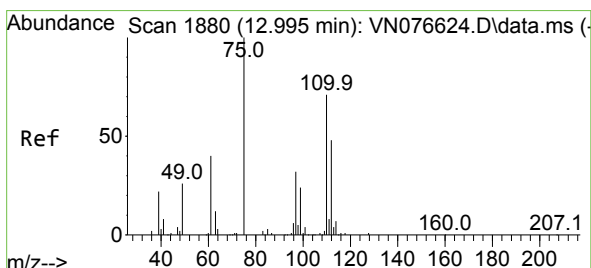
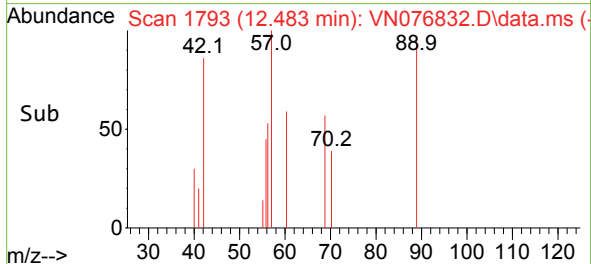
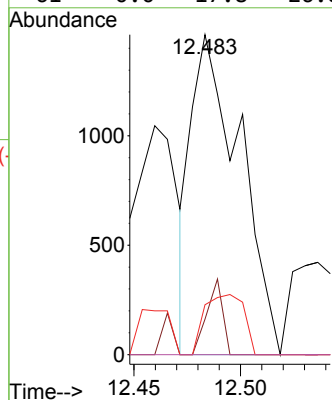
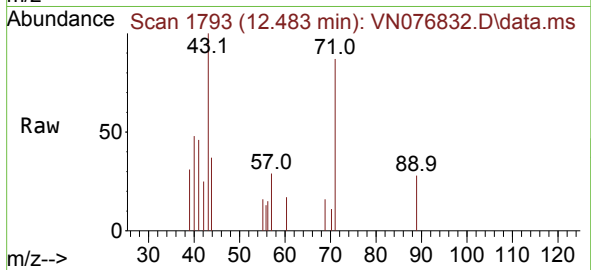




#74
N-amy1 acetate
Concen: 0.369 ug/l
RT: 12.483 min Scan# 1793
Delta R.T. -0.012 min
Lab File: VN076832.D
Acq: 28 Feb 2023 16:57

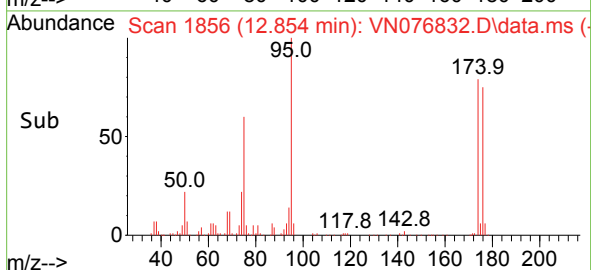
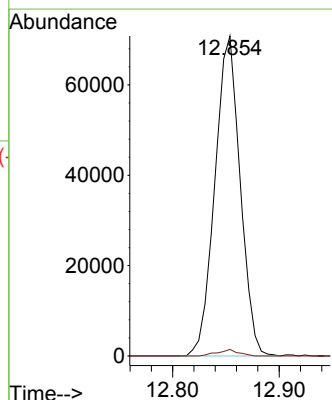
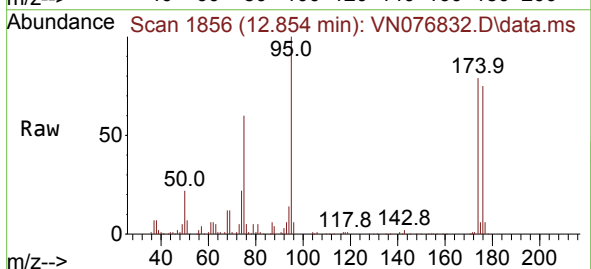
Instrument :
MSVOA_N
ClientSampleId :
PB151081ZHE#04

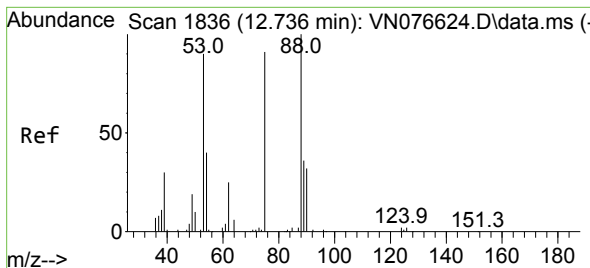
Tgt Ion:	43	Resp:	2327
Ion	Ratio	Lower	Upper
43	100		
70	7.7	30.5	45.7#
55	15.2	17.8	26.8#
61	0.0	17.8	26.8#



#76
1,2,3-Trichloropropane
Concen: 30.189 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. -0.141 min
Lab File: VN076832.D
Acq: 28 Feb 2023 16:57

Tgt Ion:	75	Resp:	116640
Ion	Ratio	Lower	Upper
75	100		
77	1.7	93.1	279.3#

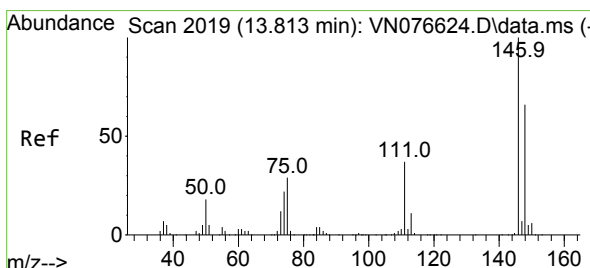
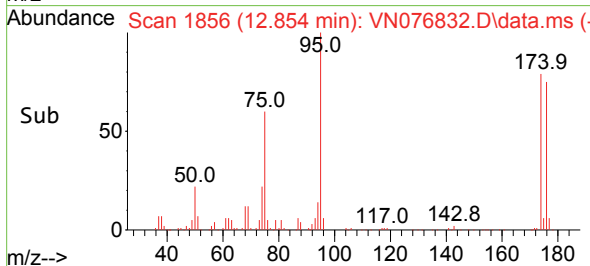
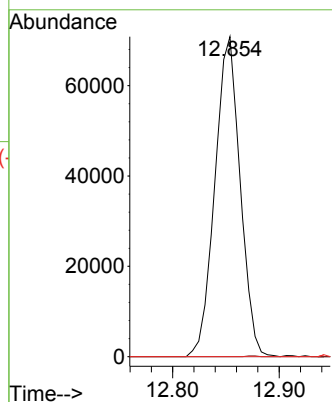
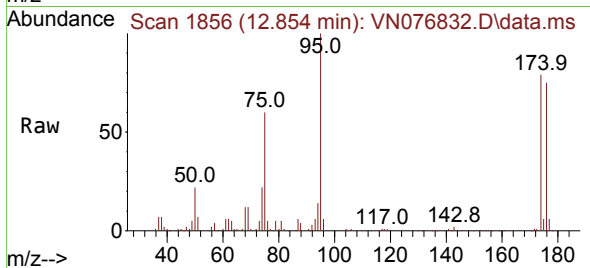




#81
trans-1,4-Dichloro-2-butene
Concen: 87.927 ug/l
RT: 12.854 min Scan# 11
Delta R.T. 0.118 min
Lab File: VN076832.D
Acq: 28 Feb 2023 16:57

Instrument :
MSVOA_N
ClientSampleId :
PB151081ZHE#04

Tgt Ion: 75 Resp: 116640
Ion Ratio Lower Upper
75 100
53 0.0 92.1 138.1#
89 0.0 37.5 56.3#



#88
1,4-Dichlorobenzene
Concen: 0.226 ug/l
RT: 13.795 min Scan# 2016
Delta R.T. -0.018 min
Lab File: VN076832.D
Acq: 28 Feb 2023 16:57

Tgt Ion:146 Resp: 1490
Ion Ratio Lower Upper
146 100
111 207.1 19.4 58.1#
148 123.2 32.7 98.1#

