

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120423\
 Data File : VN080327.D
 Acq On : 04 Dec 2023 10:37
 Operator : JC\MD
 Sample : VN1204MBL01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 05 04:10:35 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N111623W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 17 01:19:32 2023
 Response via : Initial Calibration

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

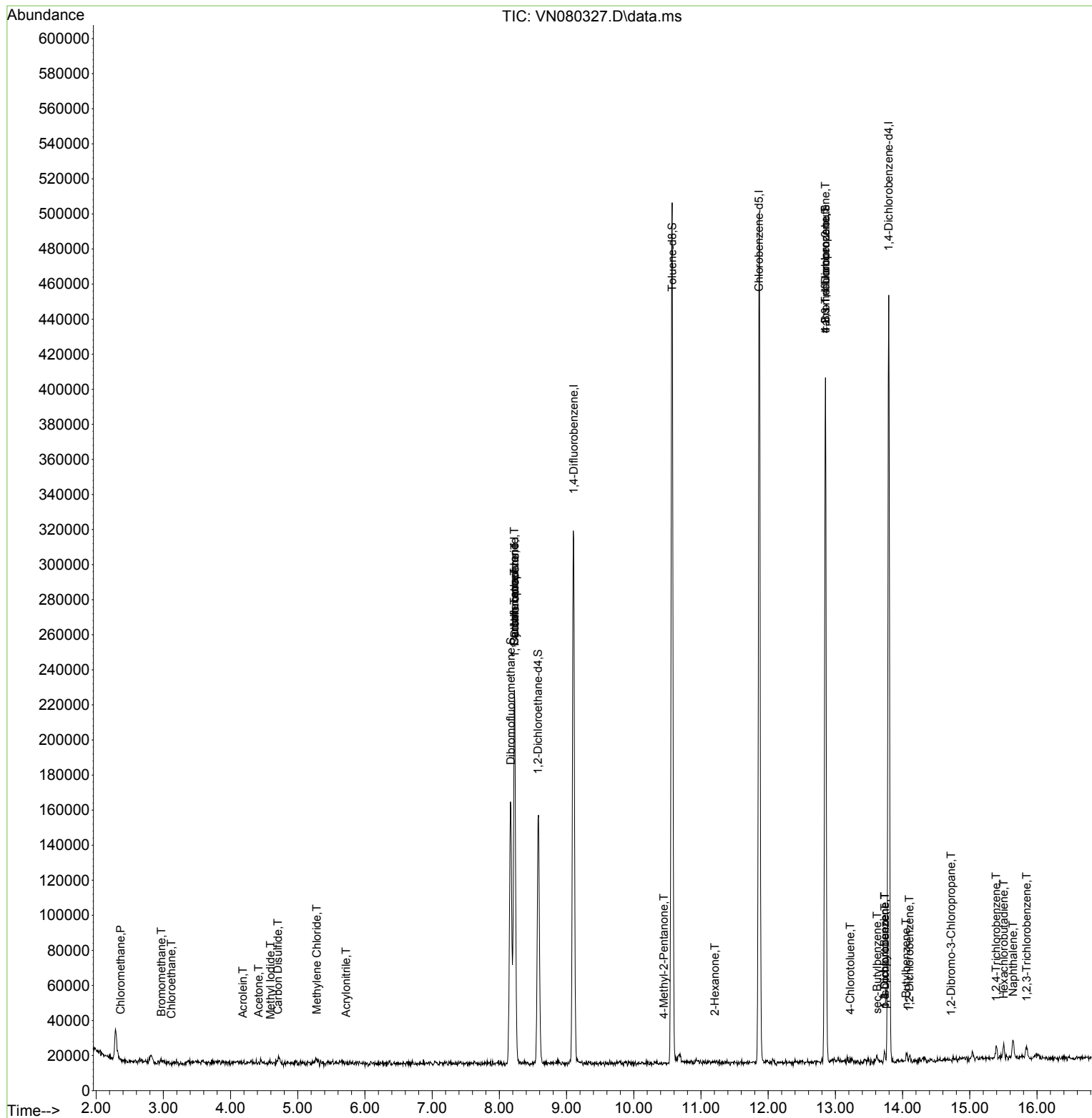
Internal Standards						
1) Pentafluorobenzene	8.224	168	144440	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	261448	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	275884	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	118997	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	130206	54.595	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 109.200%	
35) Dibromofluoromethane	8.171	113	102624	53.197	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 106.400%	
50) Toluene-d8	10.571	98	343764	49.433	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 98.860%	
62) 4-Bromofluorobenzene	12.853	95	128999	49.111	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 98.220%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	772	0.477	ug/l #	42
5) Bromomethane	2.971	94	753	0.648	ug/l #	57
6) Chloroethane	3.118	64	1506	0.236	ug/l #	43
10) Methyl Iodide	4.595	142	672	0.381	ug/l #	75
13) Acrolein	4.183	56	56	0.241	ug/l #	16
15) Acrylonitrile	5.718	53	441	0.626	ug/l #	44
16) Acetone	4.418	43	552	0.689	ug/l #	40
17) Carbon Disulfide	4.706	76	1897	0.416	ug/l #	75
20) Methylene Chloride	5.283	84	1884	1.123	ug/l #	81
31) Cyclohexane	8.224	56	3212	1.238	ug/l #	48
36) 1,1-Dichloropropene	8.230	75	11228	4.020	ug/l #	50
38) Carbon Tetrachloride	8.224	117	16653	4.698	ug/l #	17
51) 4-Methyl-2-Pentanone	10.447	43	428	0.219	ug/l #	74
59) 2-Hexanone	11.206	43	1631	1.040	ug/l	61
76) 1,2,3-Trichloropropane	12.853	75	74072	25.405	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	74072	85.833	ug/l #	15
82) 4-Chlorotoluene	13.223	91	1735	0.252	ug/l	97
85) sec-Butylbenzene	13.623	105	2315	0.283	ug/l	85
86) p-Isopropyltoluene	13.735	119	1783	0.244	ug/l	91
87) 1,3-Dichlorobenzene	13.735	146	1531	0.364	ug/l	84
88) 1,4-Dichlorobenzene	13.735	146	1531	0.363	ug/l	85
89) n-Butylbenzene	14.053	91	3530	0.578	ug/l	94
91) 1,2-Dichlorobenzene	14.100	146	1154	0.287	ug/l #	73
92) 1,2-Dibromo-3-Chloropr...	14.723	75	197	0.306	ug/l #	75
93) 1,2,4-Trichlorobenzene	15.394	180	2876	1.230	ug/l	86
94) Hexachlorobutadiene	15.506	225	1730	1.286	ug/l	86
95) Naphthalene	15.647	128	10992	1.621	ug/l	98
96) 1,2,3-Trichlorobenzene	15.847	180	3250	1.483	ug/l	92

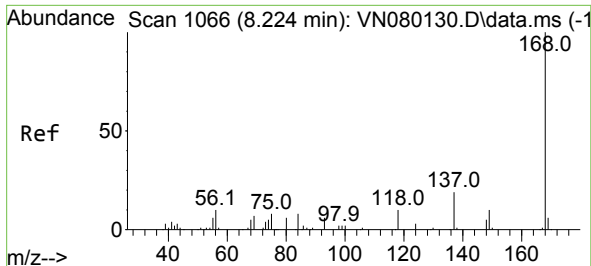
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N111623W.M
Quant Title : SW846 8260
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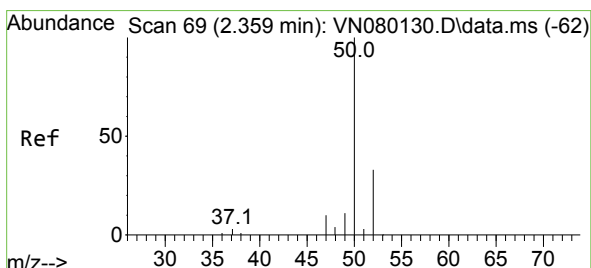
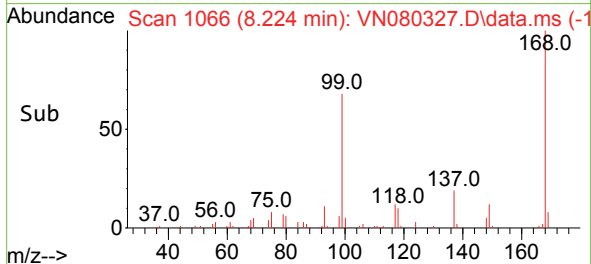
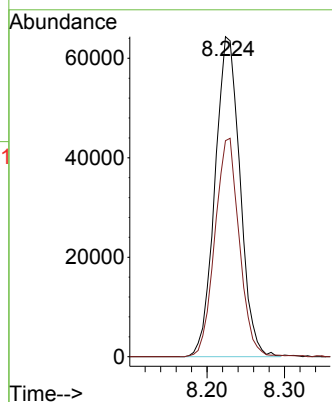
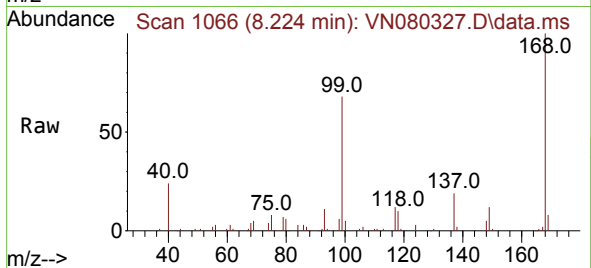




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN080327.D
Acq: 04 Dec 2023 10:37

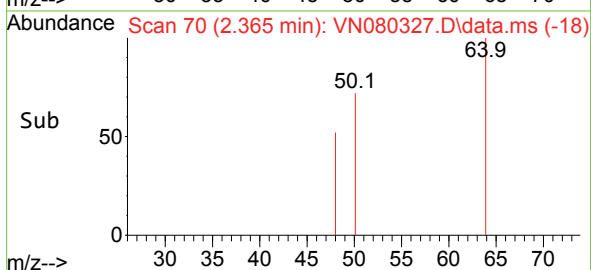
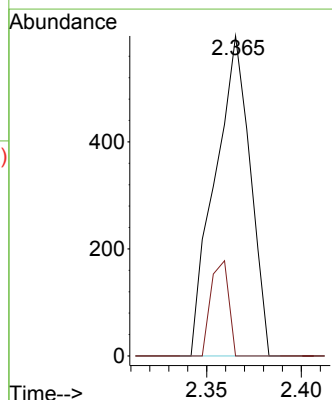
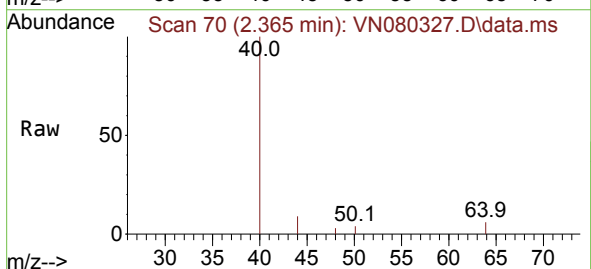
Instrument :
MSVOA_N
ClientSampleId :

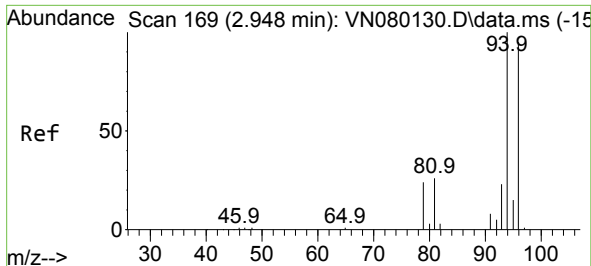
Tgt Ion:168 Resp: 144440
Ion Ratio Lower Upper
168 100
99 67.5 53.0 79.6



#3
Chloromethane
Concen: 0.477 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN080327.D
Acq: 04 Dec 2023 10:37

Tgt Ion: 50 Resp: 772
Ion Ratio Lower Upper
50 100
52 0.0 26.5 39.7#





#5

Bromomethane

Concen: 0.648 ug/l

RT: 2.971 min Scan# 173

Delta R.T. 0.023 min

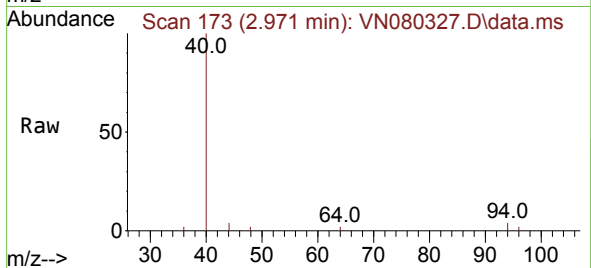
Lab File: VN080327.D

Acq: 04 Dec 2023 10:37

Instrument :

MSVOA_N

ClientSampleId :

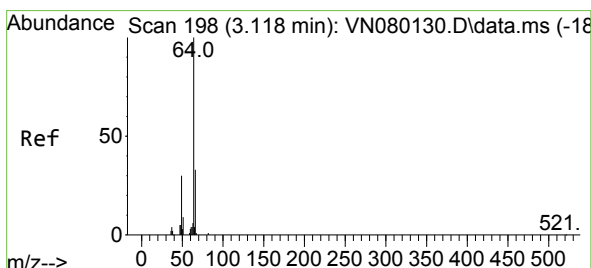
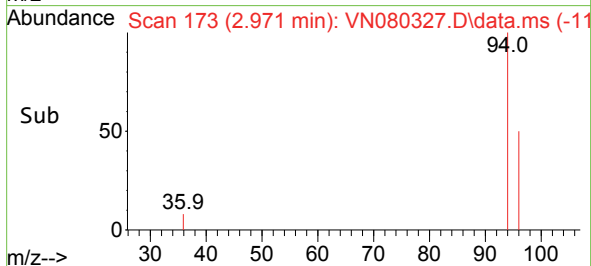
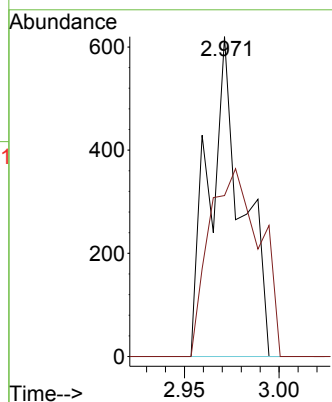


Tgt Ion: 94 Resp: 753

Ion Ratio Lower Upper

94 100

96 50.3 73.1 109.7#



#6

Chloroethane

Concen: 0.236 ug/l

RT: 3.118 min Scan# 198

Delta R.T. 0.000 min

Lab File: VN080327.D

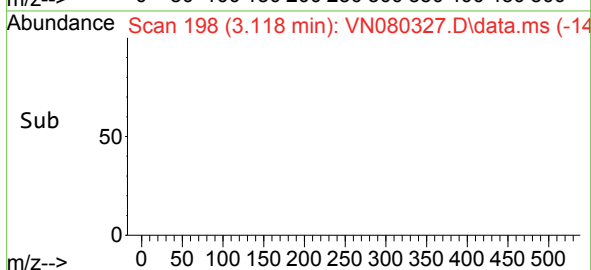
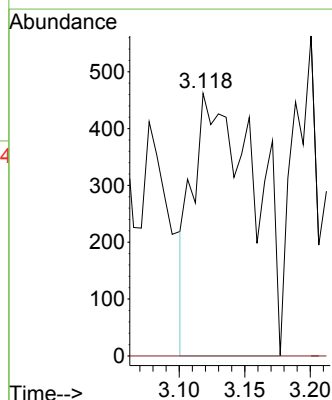
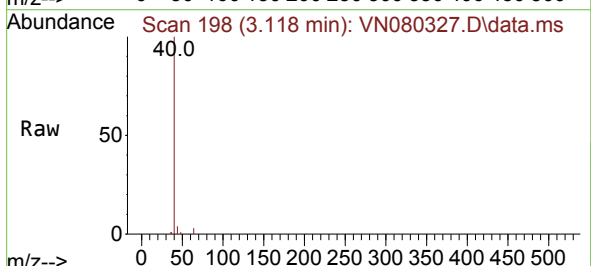
Acq: 04 Dec 2023 10:37

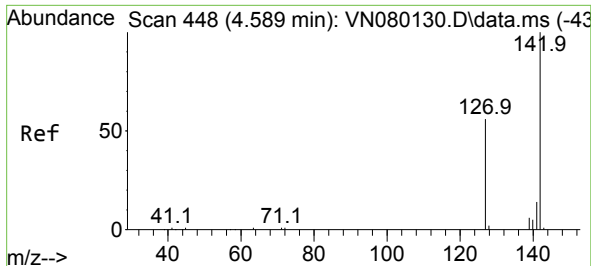
Tgt Ion: 64 Resp: 1506

Ion Ratio Lower Upper

64 100

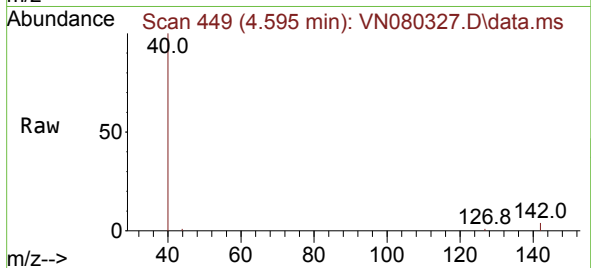
66 0.0 25.4 38.2#



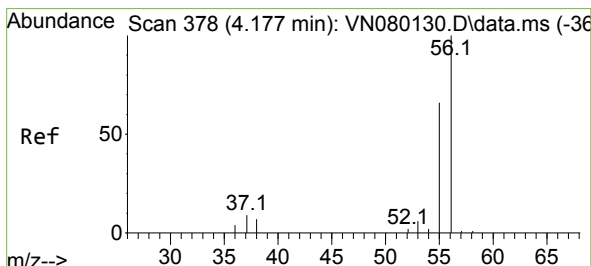
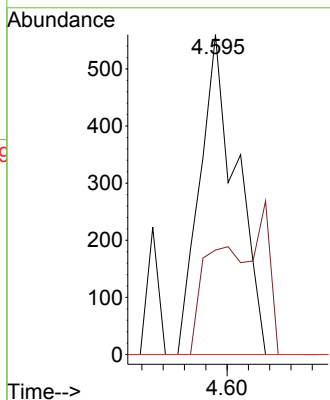
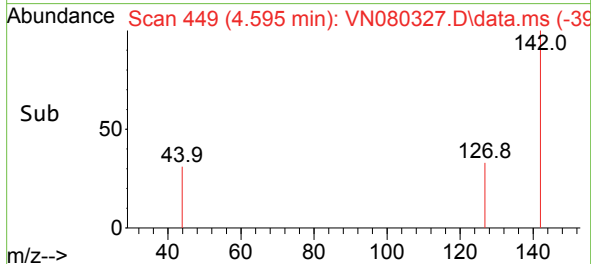


#10
Methyl Iodide
Concen: 0.381 ug/l
RT: 4.595 min Scan# 448
Delta R.T. 0.006 min
Lab File: VN080327.D
Acq: 04 Dec 2023 10:37

Instrument :
MSVOA_N
ClientSampleId :

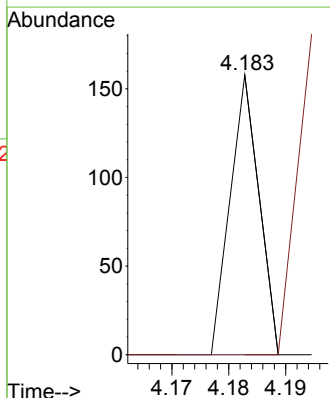
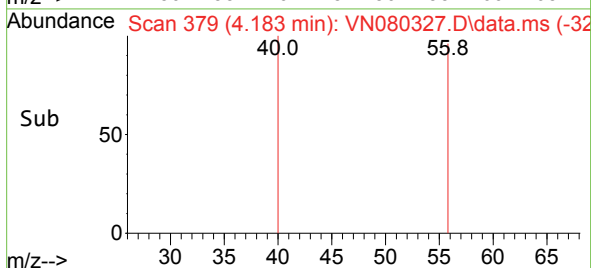
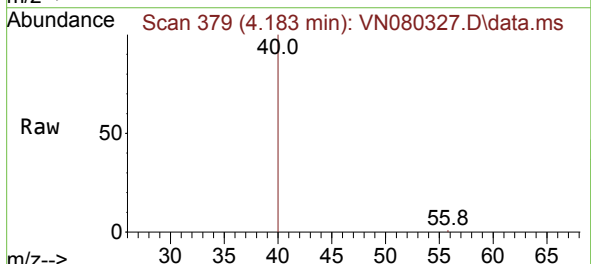


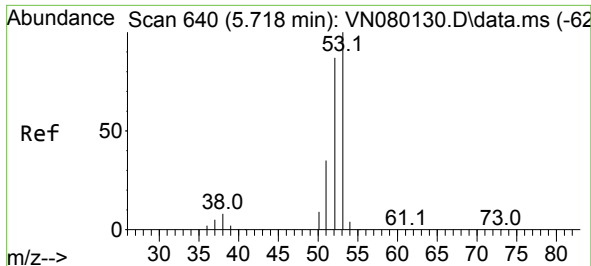
Tgt Ion:142 Resp: 672
Ion Ratio Lower Upper
142 100
127 32.7 37.6 56.4#
141 0.0 11.4 17.0#



#13
Acrolein
Concen: 0.241 ug/l
RT: 4.183 min Scan# 379
Delta R.T. 0.006 min
Lab File: VN080327.D
Acq: 04 Dec 2023 10:37

Tgt Ion: 56 Resp: 56
Ion Ratio Lower Upper
56 100
55 0.0 54.5 81.7#

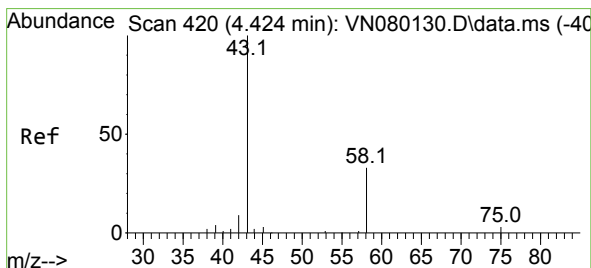
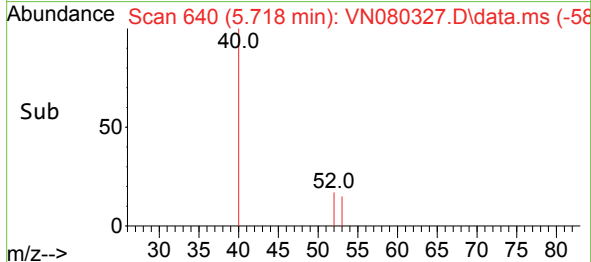
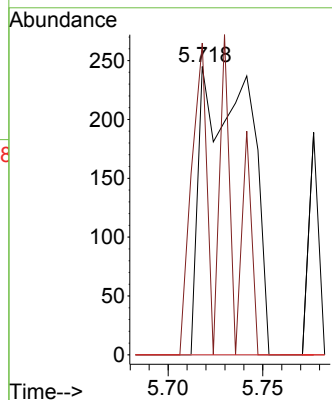
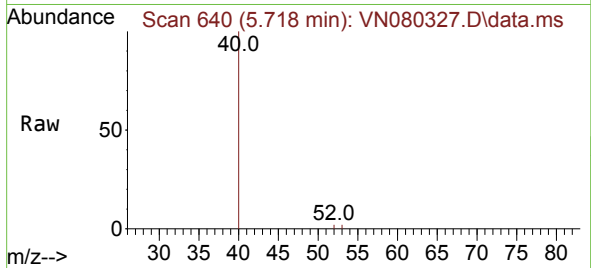




#15
Acrylonitrile
Concen: 0.626 ug/l
RT: 5.718 min Scan# 641
Delta R.T. -0.000 min
Lab File: VN080327.D
Acq: 04 Dec 2023 10:37

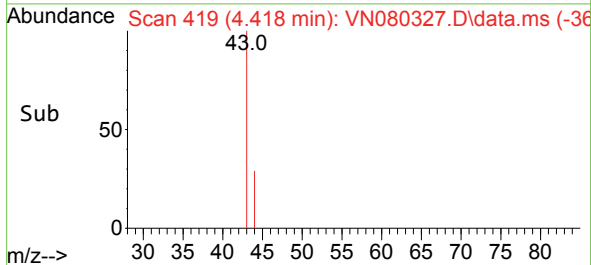
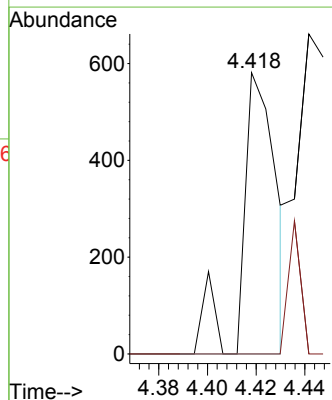
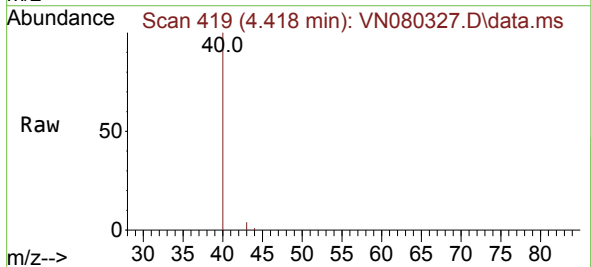
Instrument :
MSVOA_N
ClientSampleId :

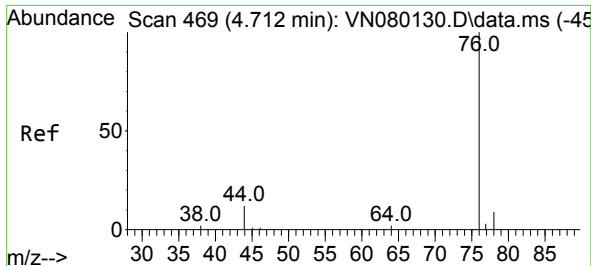
Tgt Ion: 53 Resp: 441
Ion Ratio Lower Upper
53 100
52 33.6 65.3 97.9#
51 0.0 28.9 43.3#



#16
Acetone
Concen: 0.689 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.006 min
Lab File: VN080327.D
Acq: 04 Dec 2023 10:37

Tgt Ion: 43 Resp: 552
Ion Ratio Lower Upper
43 100
58 0.0 28.0 42.0#

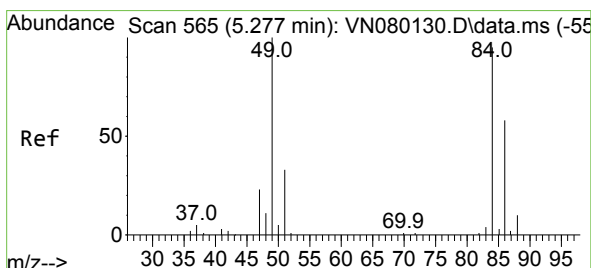
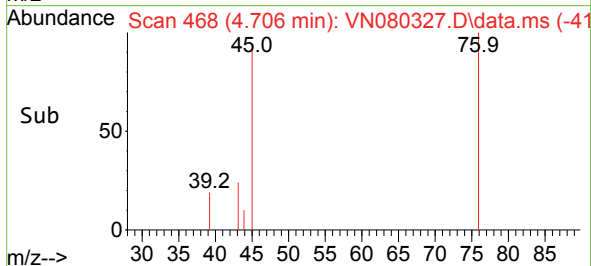
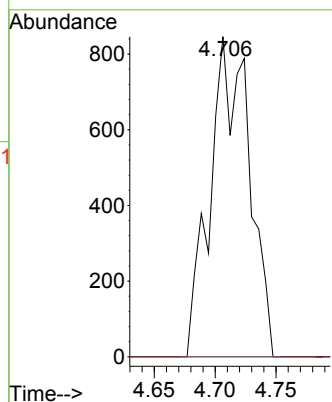
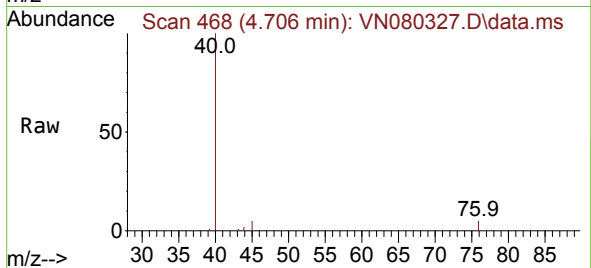




#17
Carbon Disulfide
Concen: 0.416 ug/l
RT: 4.706 min Scan# 4
Delta R.T. -0.006 min
Lab File: VN080327.D
Acq: 04 Dec 2023 10:37

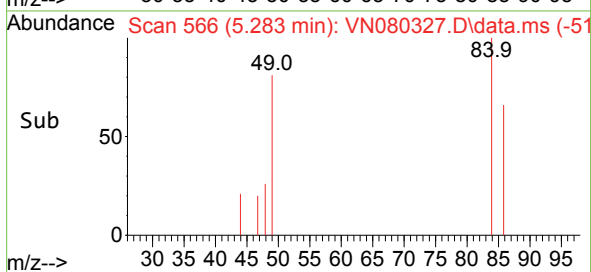
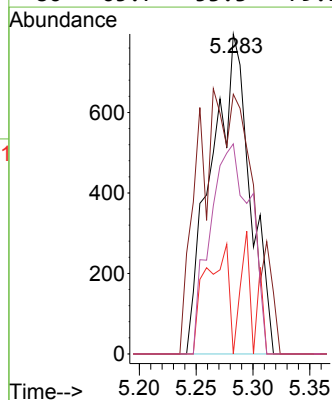
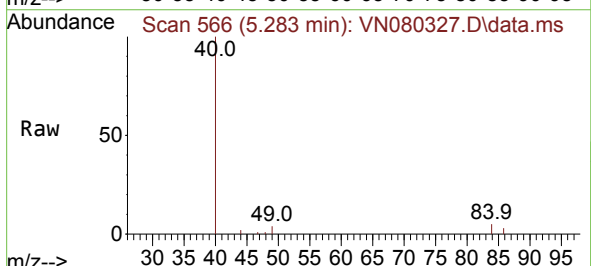
Instrument :
MSVOA_N
ClientSampleId :

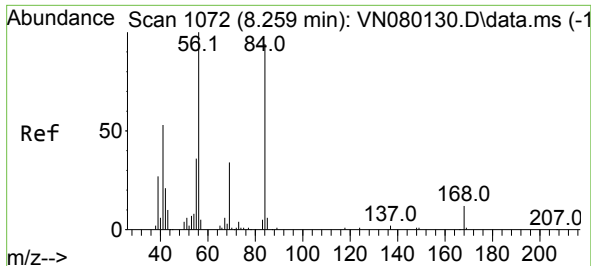
Tgt Ion: 76 Resp: 1897
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#



#20
Methylene Chloride
Concen: 1.123 ug/l
RT: 5.283 min Scan# 566
Delta R.T. 0.006 min
Lab File: VN080327.D
Acq: 04 Dec 2023 10:37

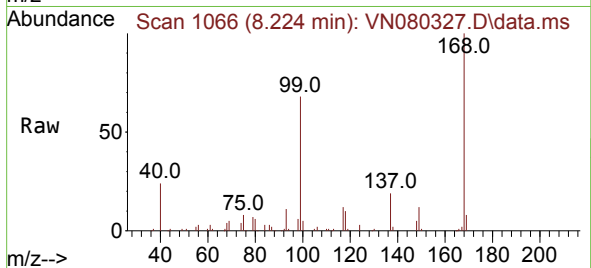
Tgt Ion: 84 Resp: 1884
Ion Ratio Lower Upper
84 100
49 81.1 79.7 119.5
51 0.0 25.2 37.8#
86 65.7 53.3 79.9



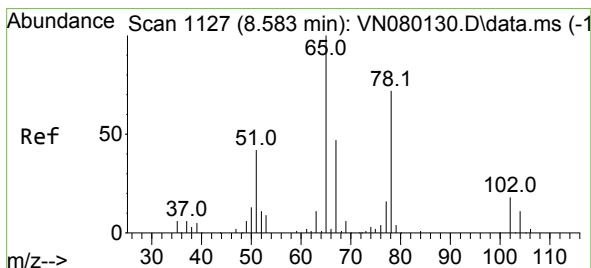
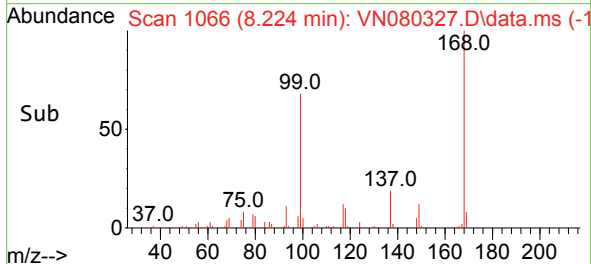
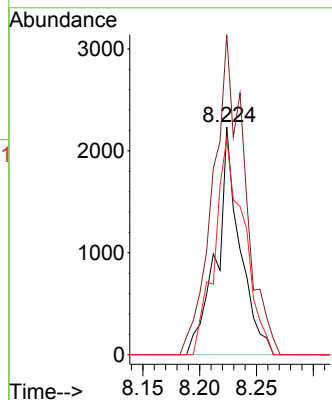


#31
Cyclohexane
Concen: 1.238 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.035 min
Lab File: VN080327.D
Acq: 04 Dec 2023 10:37

Instrument :
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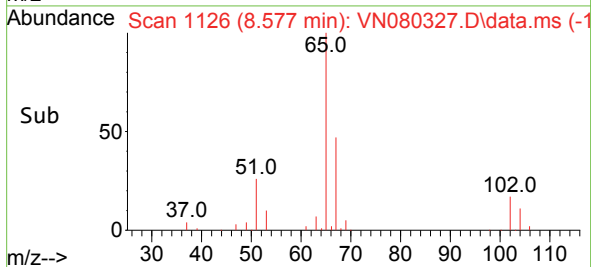
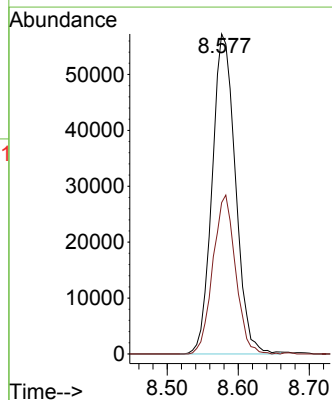
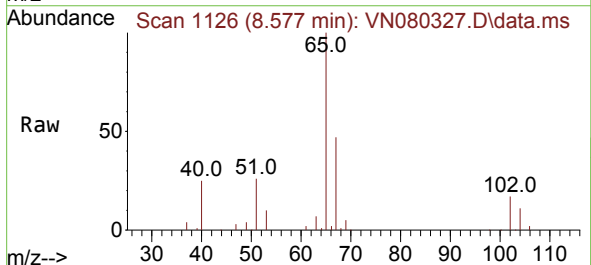


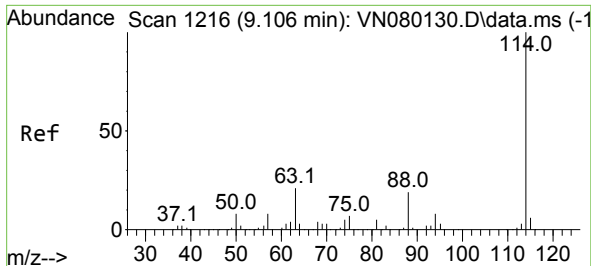
Tgt Ion: 56 Resp: 3212
Ion Ratio Lower Upper
56 100
69 140.5 26.8 40.2#
84 94.9 81.8 122.6



#33
1,2-Dichloroethane-d4
Concen: 54.595 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.006 min
Lab File: VN080327.D
Acq: 04 Dec 2023 10:37

Tgt Ion: 65 Resp: 130206
Ion Ratio Lower Upper
65 100
67 48.3 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN080327.D

Acq: 04 Dec 2023 10:37

Instrument :

MSVOA_N

ClientSampleId :

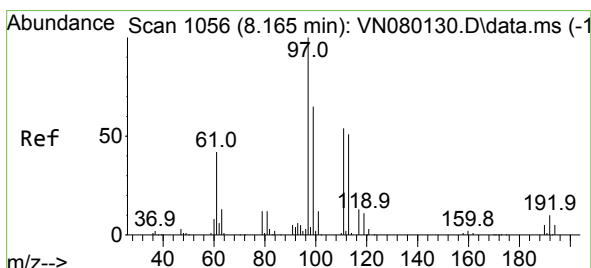
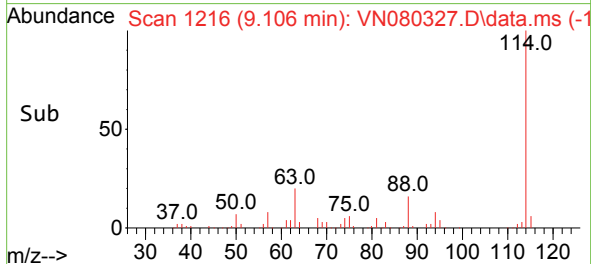
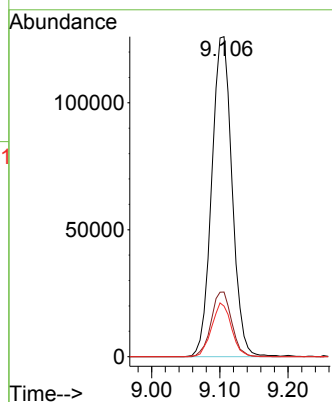
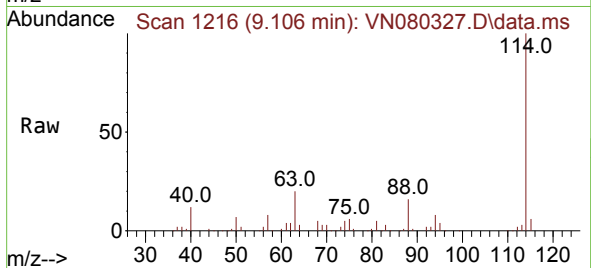
Tgt Ion:114 Resp: 261448

Ion Ratio Lower Upper

114 100

63 20.2 0.0 36.4

88 15.8 0.0 30.6



#35

Dibromofluoromethane

Concen: 53.197 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. 0.006 min

Lab File: VN080327.D

Acq: 04 Dec 2023 10:37

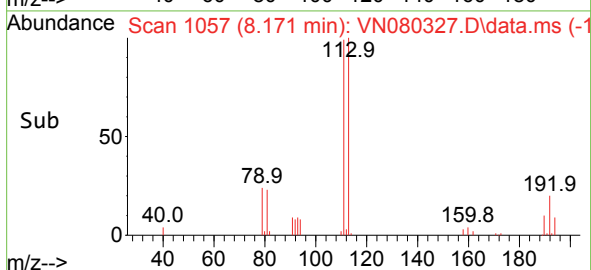
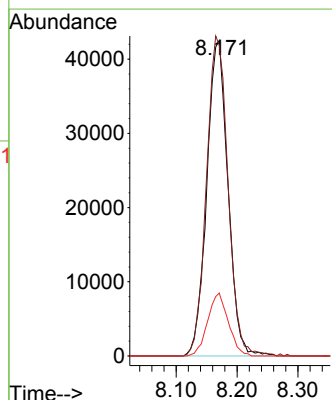
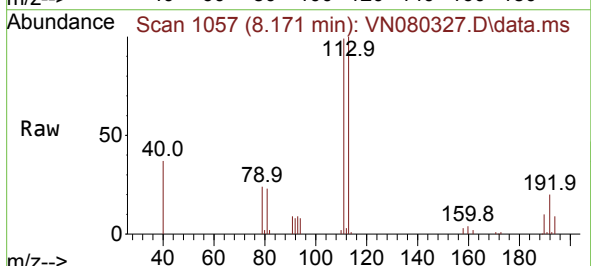
Tgt Ion:113 Resp: 102624

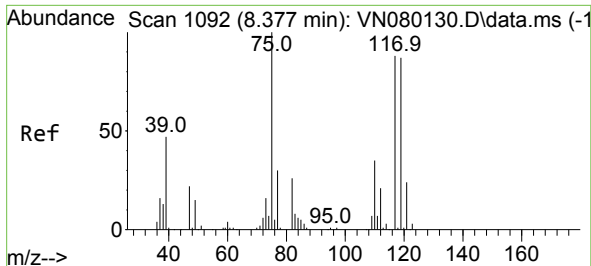
Ion Ratio Lower Upper

113 100

111 103.2 82.6 123.8

192 19.5 12.7 19.1#





#36

1,1-Dichloropropene

Concen: 4.020 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.147 min

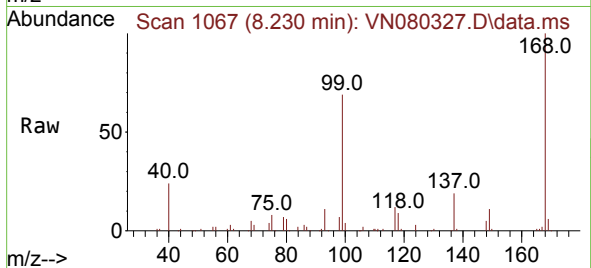
Lab File: VN080327.D

Acq: 04 Dec 2023 10:37

Instrument :

MSVOA_N

ClientSampleId :



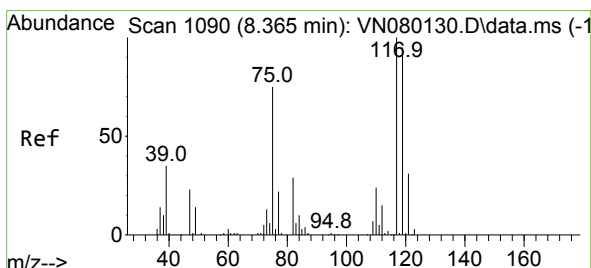
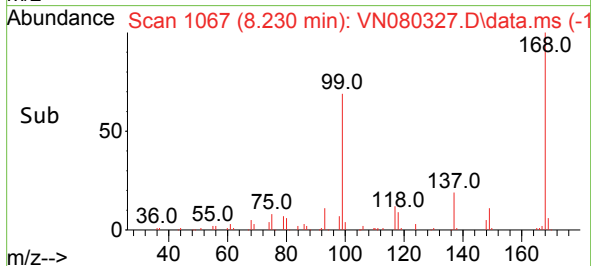
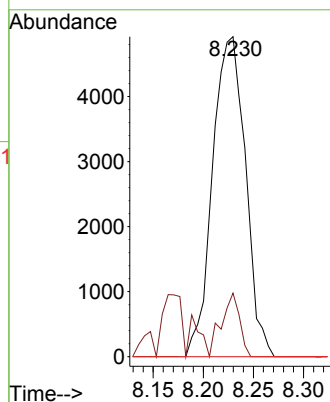
Tgt Ion: 75 Resp: 11228

Ion Ratio Lower Upper

75 100

110 11.0 19.1 57.3#

77 0.0 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 4.698 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN080327.D

Acq: 04 Dec 2023 10:37

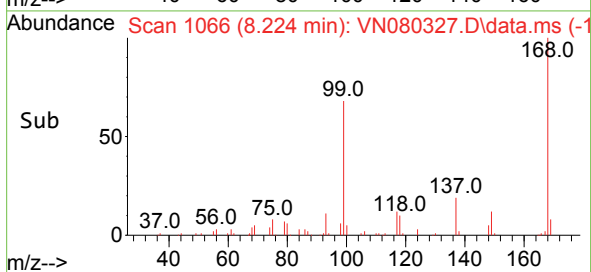
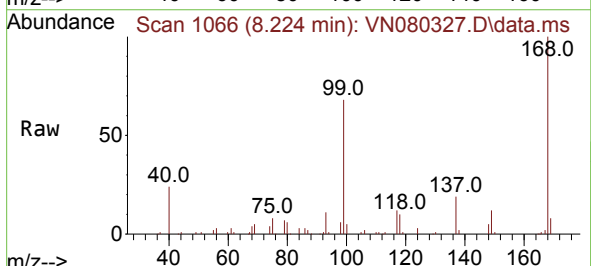
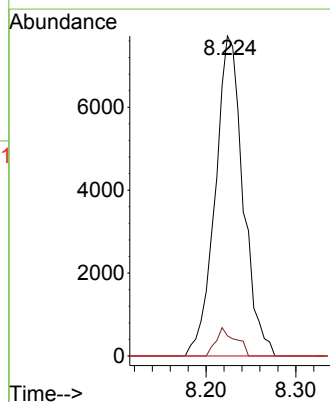
Tgt Ion: 117 Resp: 16653

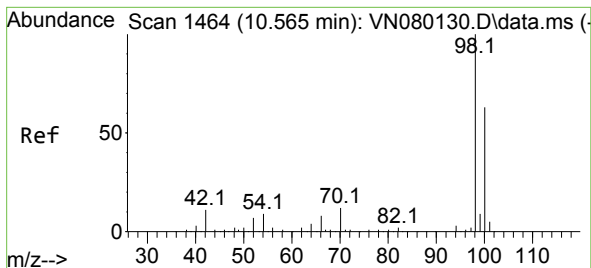
Ion Ratio Lower Upper

117 100

119 6.3 77.3 115.9#

121 0.0 23.3 34.9#





#50

Toluene-d8

Concen: 49.433 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.006 min

Lab File: VN080327.D

Acq: 04 Dec 2023 10:37

Instrument :

MSVOA_N

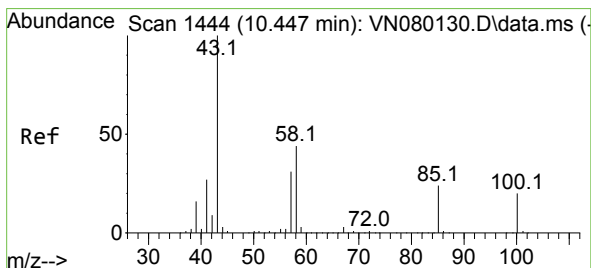
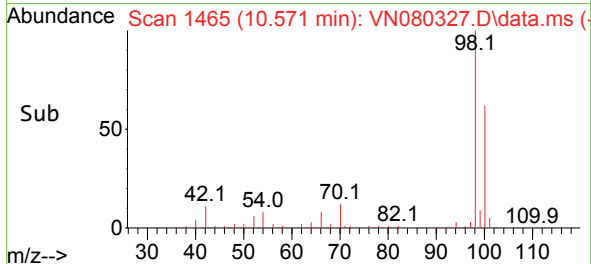
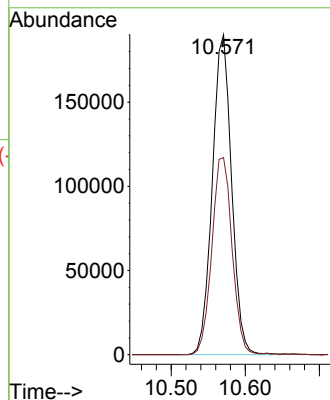
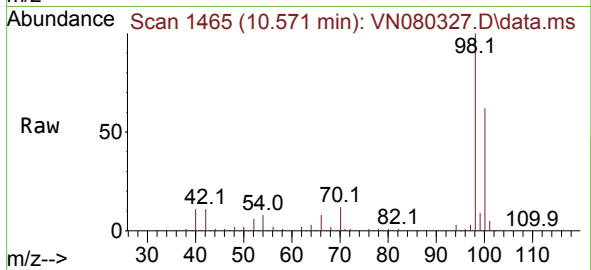
ClientSampleId :

Tgt Ion: 98 Resp: 343764

Ion Ratio Lower Upper

98 100

100 64.7 52.0 78.0



#51

4-Methyl-2-Pentanone

Concen: 0.219 ug/l

RT: 10.447 min Scan# 1444

Delta R.T. -0.000 min

Lab File: VN080327.D

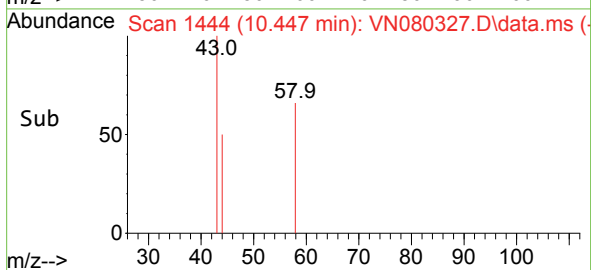
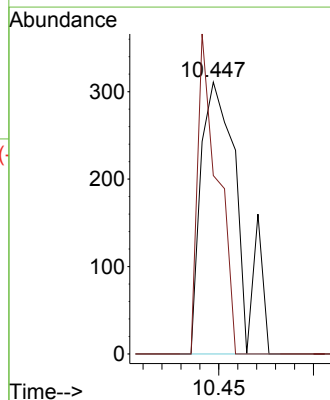
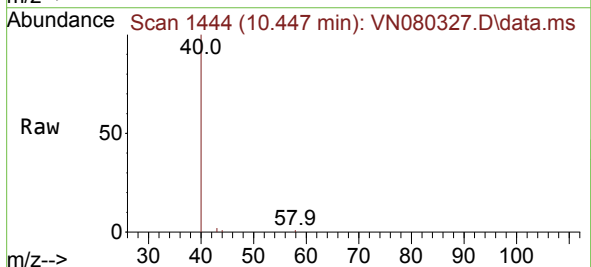
Acq: 04 Dec 2023 10:37

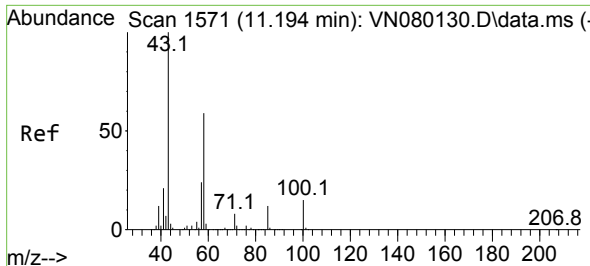
Tgt Ion: 43 Resp: 428

Ion Ratio Lower Upper

43 100

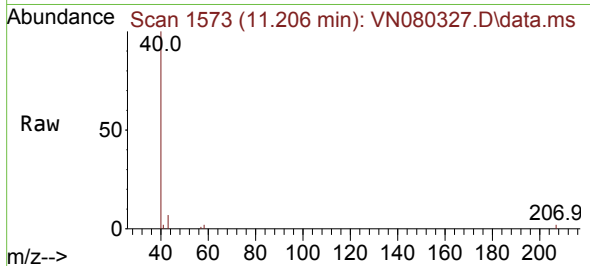
58 62.6 36.6 54.8#



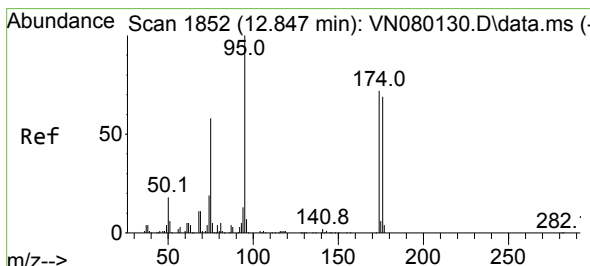
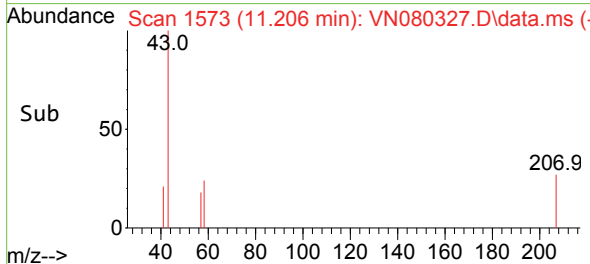
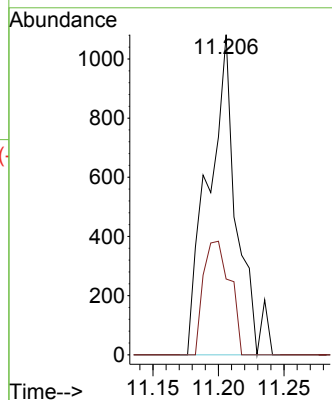


#59
2-Hexanone
Concen: 1.040 ug/l
RT: 11.206 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN080327.D
Acq: 04 Dec 2023 10:37

Instrument :
MSVOA_N
ClientSampleId :

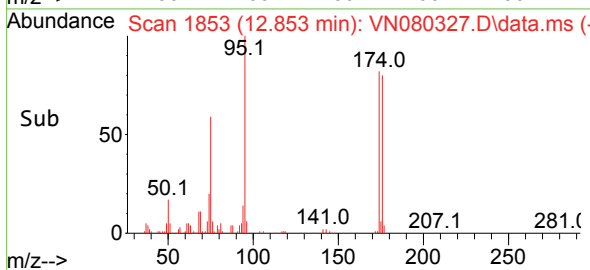
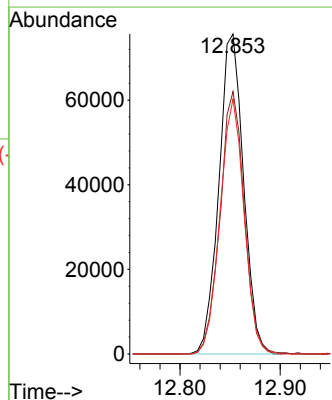
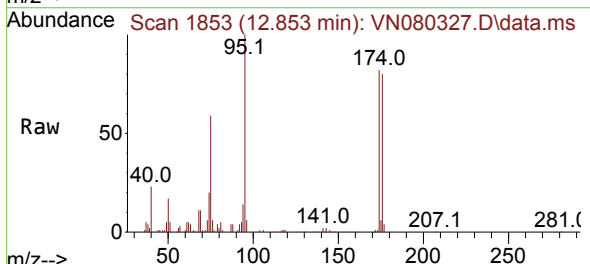


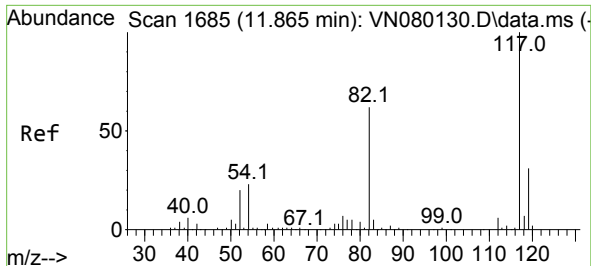
Tgt Ion: 43 Resp: 1631
Ion Ratio Lower Upper
43 100
58 33.2 31.7 95.1



#62
4-Bromofluorobenzene
Concen: 49.111 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN080327.D
Acq: 04 Dec 2023 10:37

Tgt Ion: 95 Resp: 128999
Ion Ratio Lower Upper
95 100
174 80.6 0.0 143.8
176 77.5 0.0 135.8

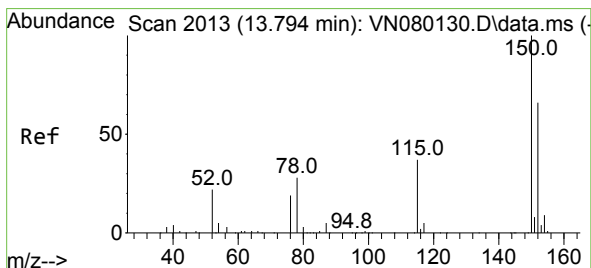
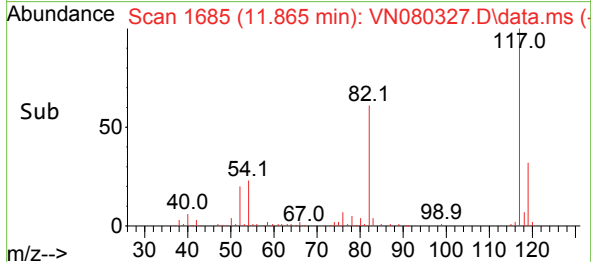
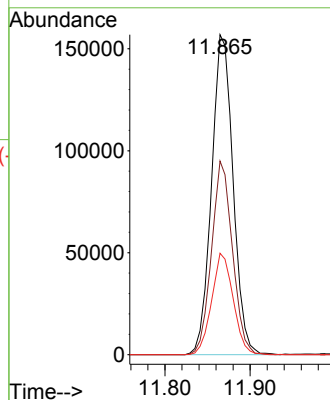
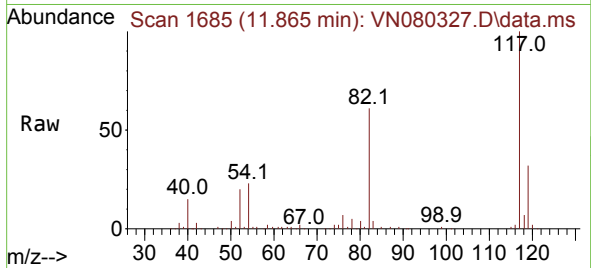




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN080327.D
Acq: 04 Dec 2023 10:37

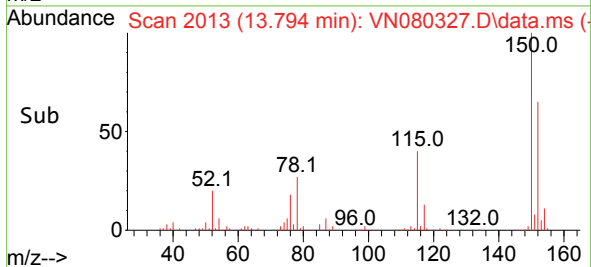
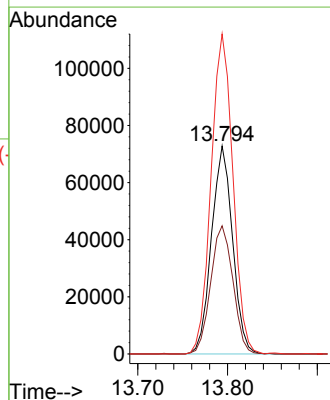
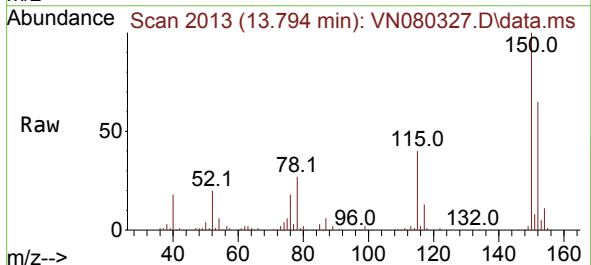
Instrument :
MSVOA_N
ClientSampleId :

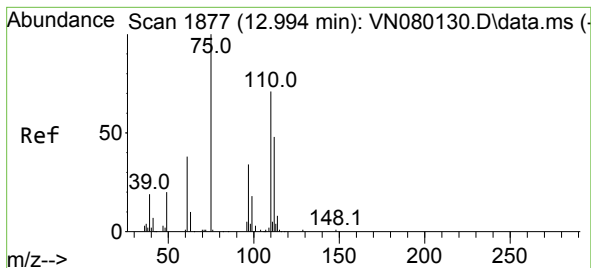
Tgt Ion:117 Resp: 275884
Ion Ratio Lower Upper
117 100
82 60.5 44.0 66.0
119 31.7 25.6 38.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN080327.D
Acq: 04 Dec 2023 10:37

Tgt Ion:152 Resp: 118997
Ion Ratio Lower Upper
152 100
115 64.9 32.3 96.8
150 158.7 0.0 355.8





#76

1,2,3-Trichloropropane

Concen: 25.405 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.141 min

Lab File: VN080327.D

Acq: 04 Dec 2023 10:37

Instrument :

MSVOA_N

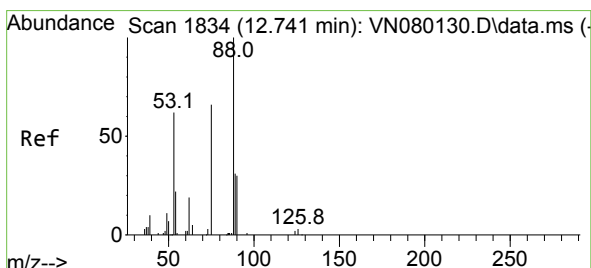
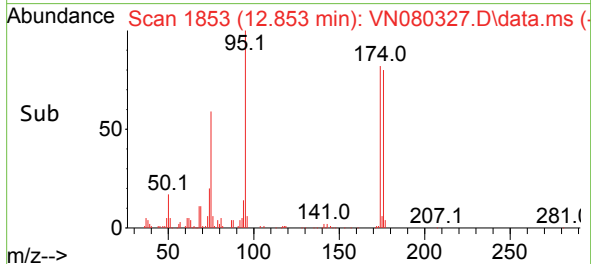
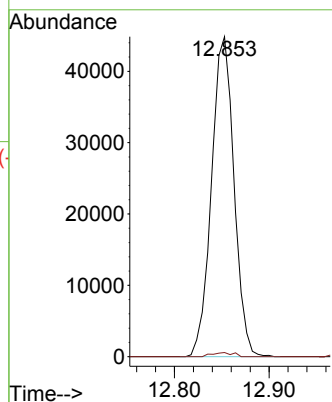
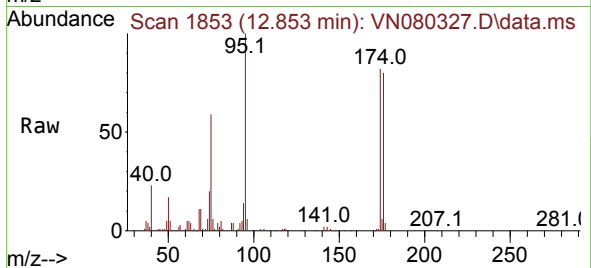
ClientSampleId :

Tgt Ion: 75 Resp: 74072

Ion Ratio Lower Upper

75 100

77 1.2 84.5 253.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 85.833 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.112 min

Lab File: VN080327.D

Acq: 04 Dec 2023 10:37

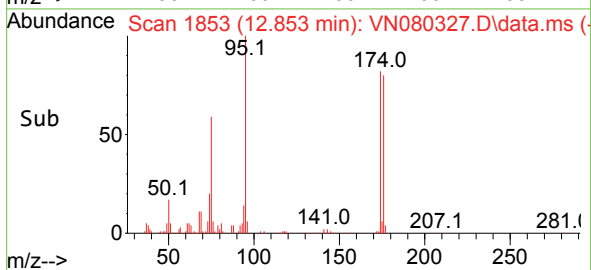
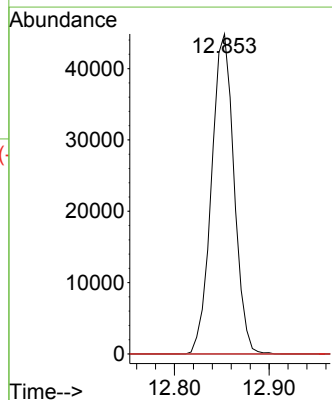
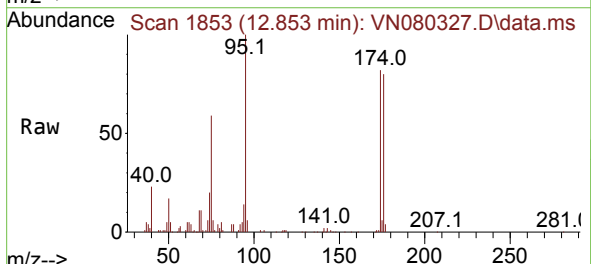
Tgt Ion: 75 Resp: 74072

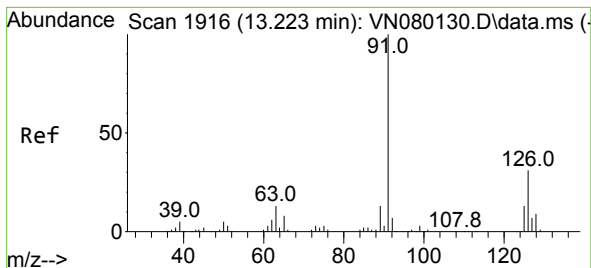
Ion Ratio Lower Upper

75 100

53 0.0 67.4 101.2#

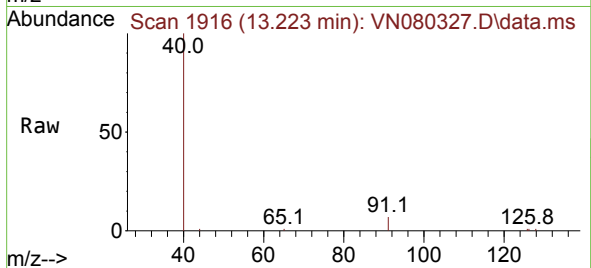
89 0.0 38.8 58.2#



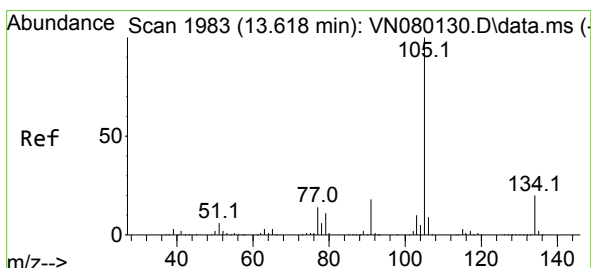
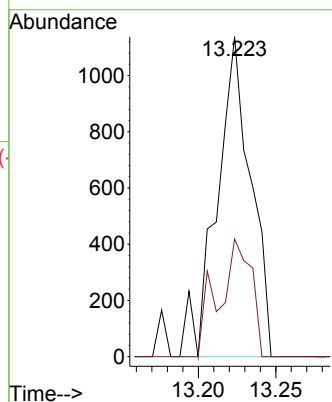
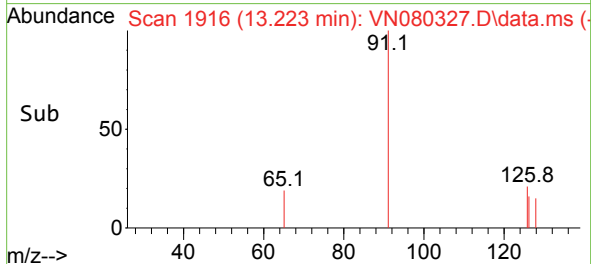


#82
4-Chlorotoluene
Concen: 0.252 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. -0.000 min
Lab File: VN080327.D
Acq: 04 Dec 2023 10:37

Instrument :
MSVOA_N
ClientSampleId :

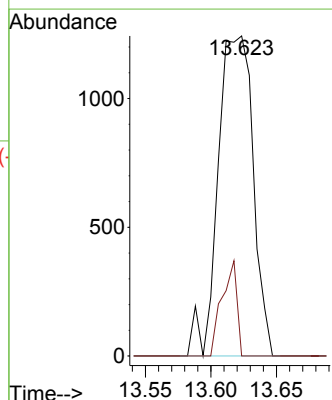
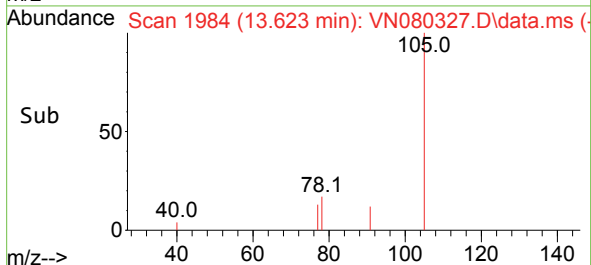
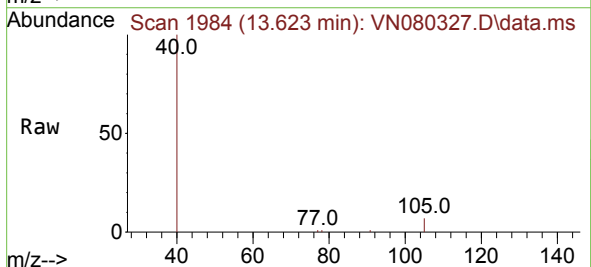


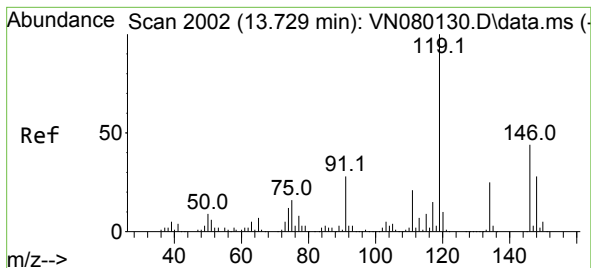
Tgt Ion: 91 Resp: 1735
Ion Ratio Lower Upper
91 100
126 35.3 16.7 50.0



#85
sec-Butylbenzene
Concen: 0.283 ug/l
RT: 13.623 min Scan# 1984
Delta R.T. 0.006 min
Lab File: VN080327.D
Acq: 04 Dec 2023 10:37

Tgt Ion: 105 Resp: 2315
Ion Ratio Lower Upper
105 100
134 12.6 9.8 29.3





#86

p-Isopropyltoluene

Concen: 0.244 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. 0.006 min

Lab File: VN080327.D

Acq: 04 Dec 2023 10:37

Instrument :

MSVOA_N

ClientSampleId :

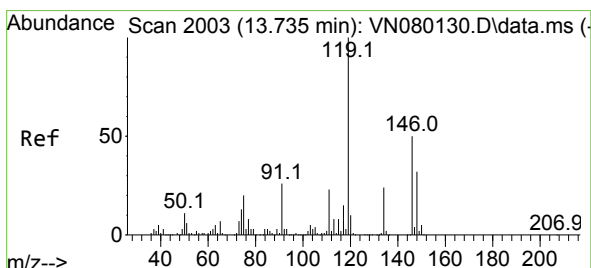
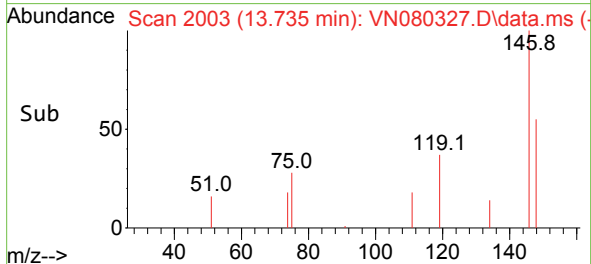
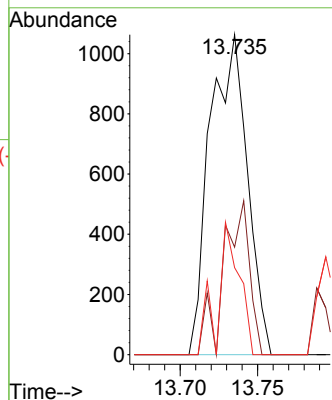
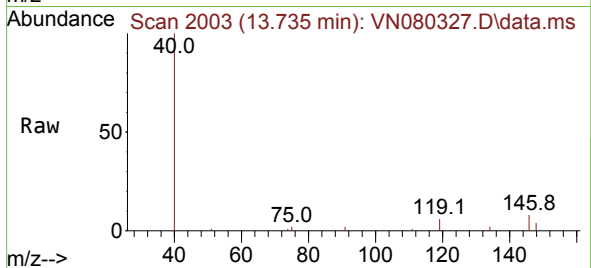
Tgt Ion:119 Resp: 1783

Ion Ratio Lower Upper

119 100

134 33.3 12.6 37.8

91 23.9 12.4 37.2



#87

1,3-Dichlorobenzene

Concen: 0.364 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. -0.000 min

Lab File: VN080327.D

Acq: 04 Dec 2023 10:37

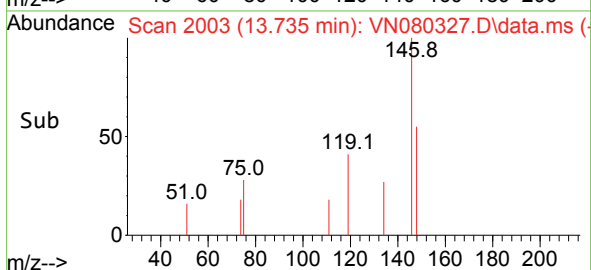
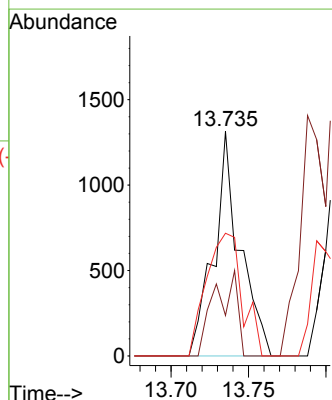
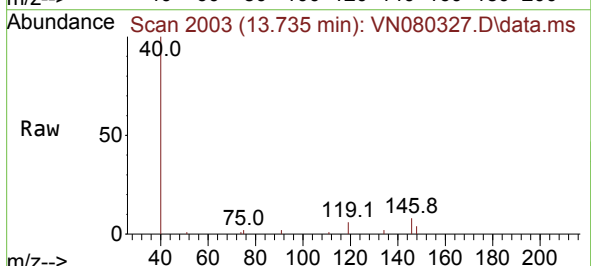
Tgt Ion:146 Resp: 1531

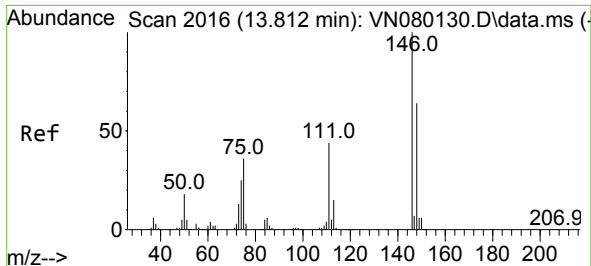
Ion Ratio Lower Upper

146 100

111 32.9 22.1 66.3

148 75.4 32.0 96.0

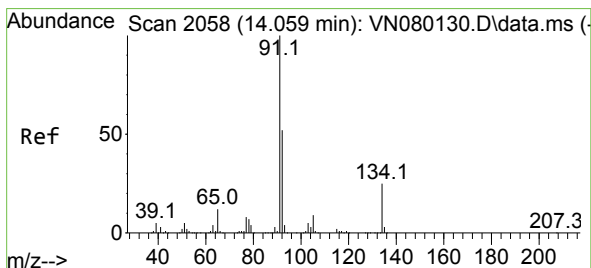
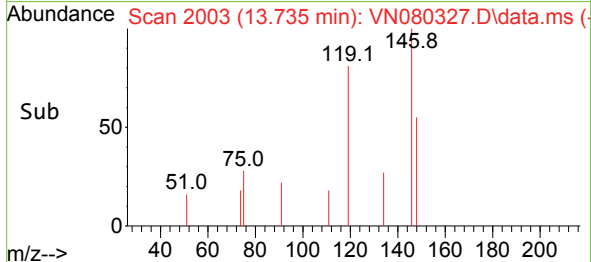
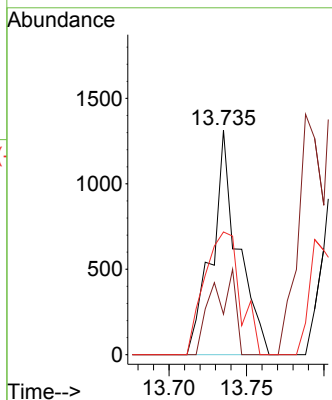
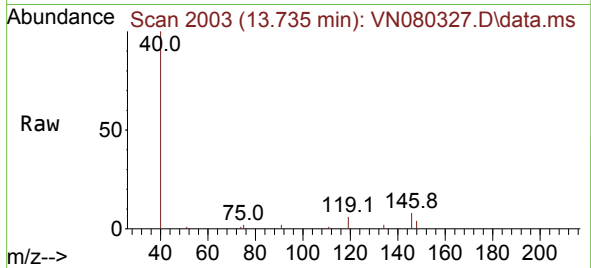




#88
1,4-Dichlorobenzene
Concen: 0.363 ug/l
RT: 13.735 min Scan# 2016
Delta R.T. -0.077 min
Lab File: VN080327.D
Acq: 04 Dec 2023 10:37

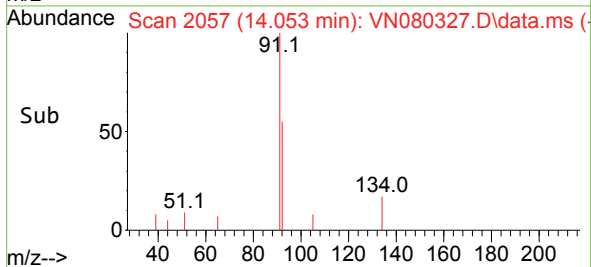
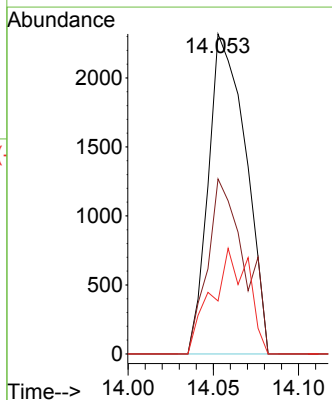
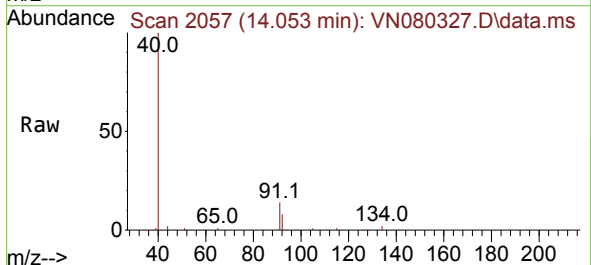
Instrument :
MSVOA_N
ClientSampleId :

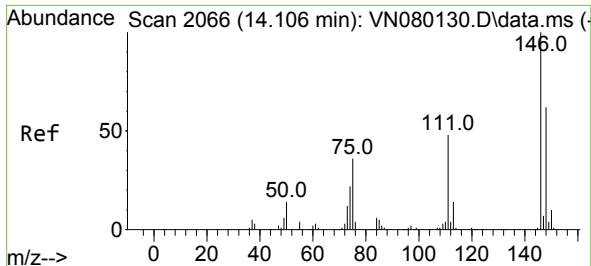
Tgt Ion:146 Resp: 1531
Ion Ratio Lower Upper
146 100
111 32.9 20.6 61.8
148 75.4 31.6 94.8



#89
n-Butylbenzene
Concen: 0.578 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.006 min
Lab File: VN080327.D
Acq: 04 Dec 2023 10:37

Tgt Ion: 91 Resp: 3530
Ion Ratio Lower Upper
91 100
92 54.0 26.4 79.0
134 32.6 12.6 37.6

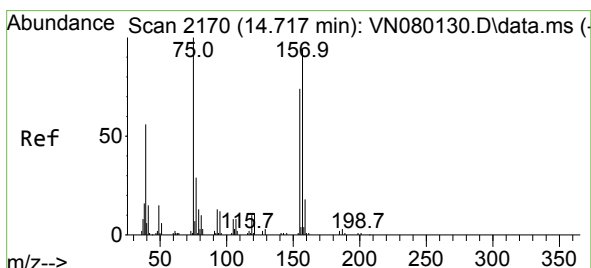
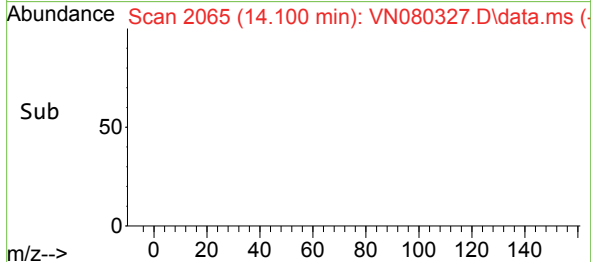
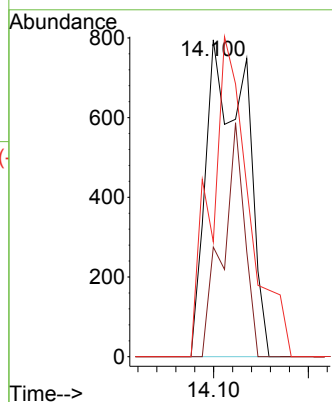
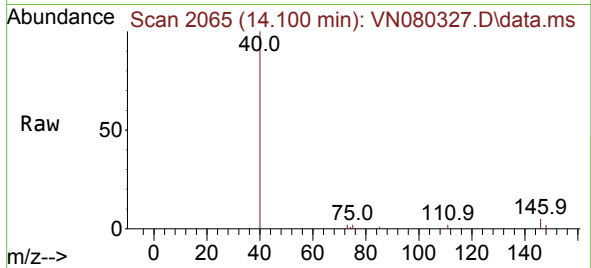




#91
 1,2-Dichlorobenzene
 Concen: 0.287 ug/l
 RT: 14.100 min Scan# 2066
 Delta R.T. -0.006 min
 Lab File: VN080327.D
 Acq: 04 Dec 2023 10:37

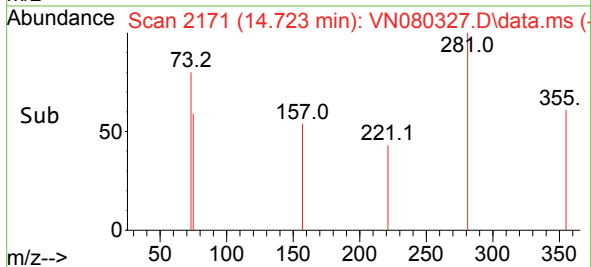
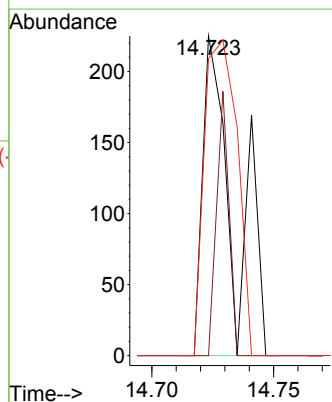
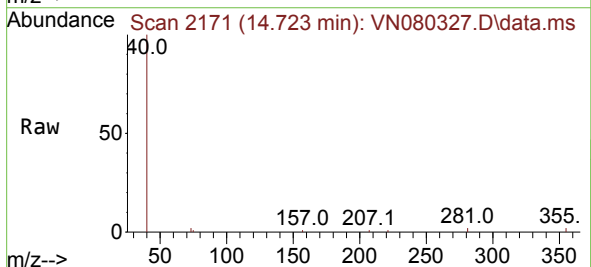
Instrument :
 MSVOA_N
 ClientSampleId :

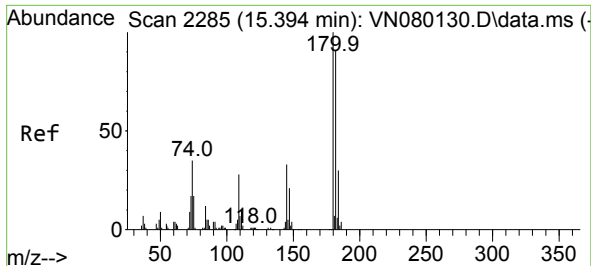
Tgt Ion:146 Resp: 1154
 Ion Ratio Lower Upper
 146 100
 111 41.2 22.0 66.0
 148 96.3 31.8 95.3#



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.306 ug/l
 RT: 14.723 min Scan# 2171
 Delta R.T. 0.006 min
 Lab File: VN080327.D
 Acq: 04 Dec 2023 10:37

Tgt Ion: 75 Resp: 197
 Ion Ratio Lower Upper
 75 100
 155 33.5 39.1 117.2#
 157 106.1 50.3 150.9

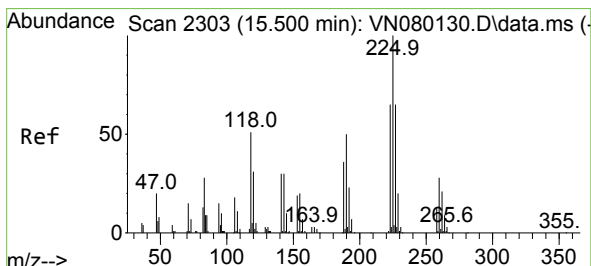
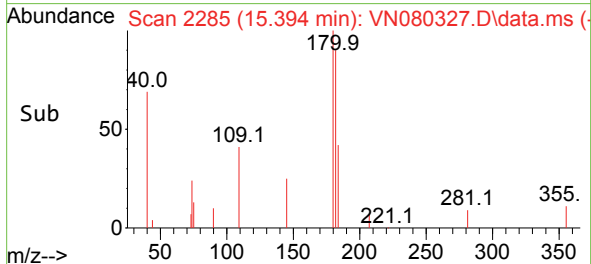
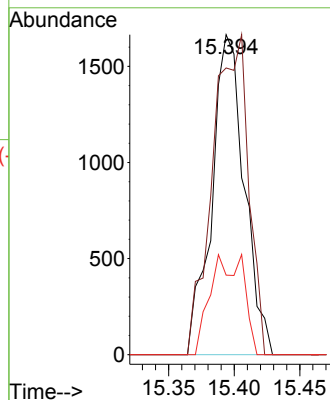
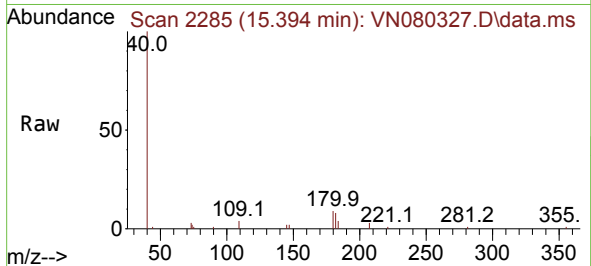




#93
 1,2,4-Trichlorobenzene
 Concen: 1.230 ug/l
 RT: 15.394 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VN080327.D
 Acq: 04 Dec 2023 10:37

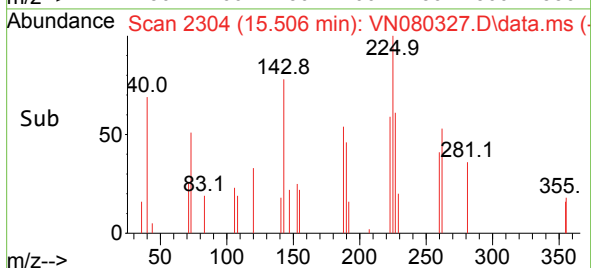
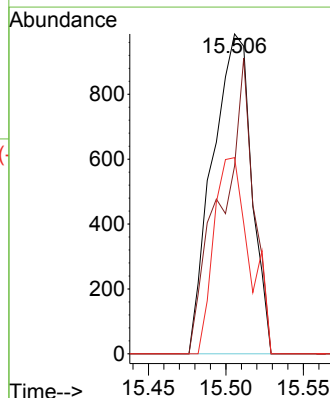
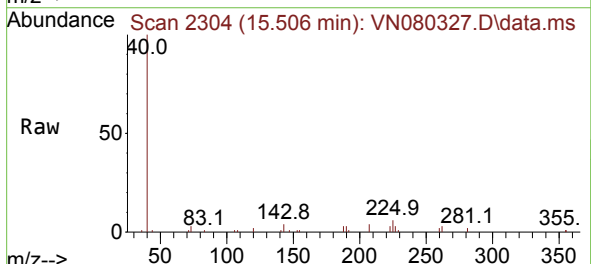
Instrument :
 MSVOA_N
 ClientSampleId :

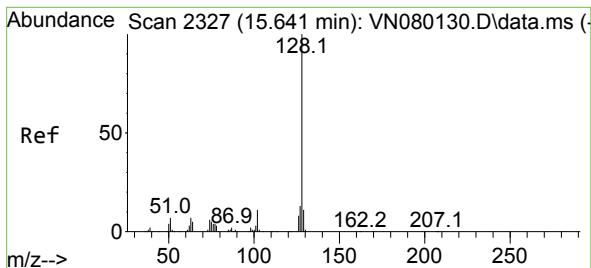
Tgt Ion	Ratio	Lower	Upper
180	100		
182	110.0	46.1	138.2
145	31.8	16.6	49.8



#94
 Hexachlorobutadiene
 Concen: 1.286 ug/l
 RT: 15.506 min Scan# 2304
 Delta R.T. 0.006 min
 Lab File: VN080327.D
 Acq: 04 Dec 2023 10:37

Tgt Ion	Ratio	Lower	Upper
225	100		
223	76.5	31.3	93.8
227	56.0	31.9	95.9





#95

Naphthalene

Concen: 1.621 ug/l

RT: 15.647 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN080327.D

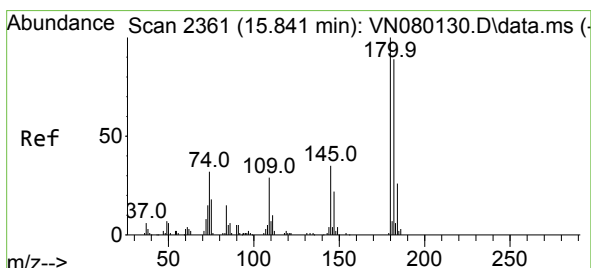
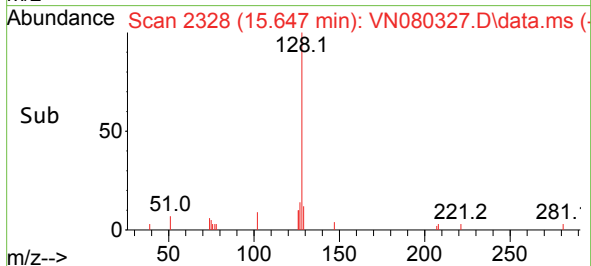
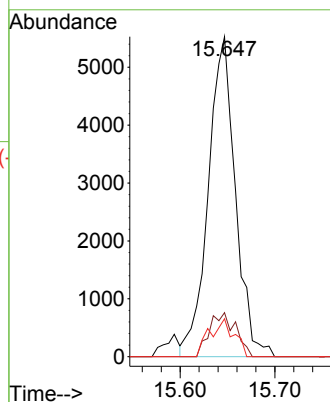
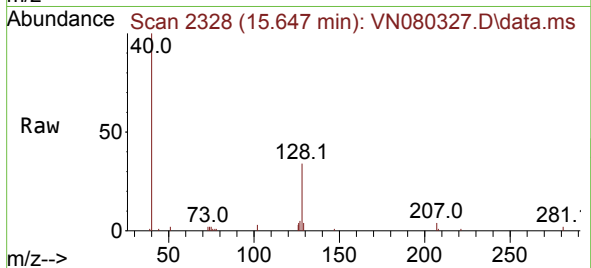
Acq: 04 Dec 2023 10:37

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:128	Resp:	10992
Ion Ratio	Lower	Upper
128	100	
127	13.4	10.0 15.0
129	10.6	8.7 13.1



#96

1,2,3-Trichlorobenzene

Concen: 1.483 ug/l

RT: 15.847 min Scan# 2362

Delta R.T. 0.006 min

Lab File: VN080327.D

Acq: 04 Dec 2023 10:37

Tgt Ion:180	Resp:	3250
Ion Ratio	Lower	Upper
180	100	
182	100.9	46.2 138.6
145	32.1	17.5 52.6

