

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012723\
 Data File : VN076433.D
 Acq On : 27 Jan 2023 12:35
 Operator : JC\MD
 Sample : IBLK
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

Quant Time: Jan 27 22:35:57 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011623W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 17 03:59:22 2023
 Response via : Initial Calibration

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

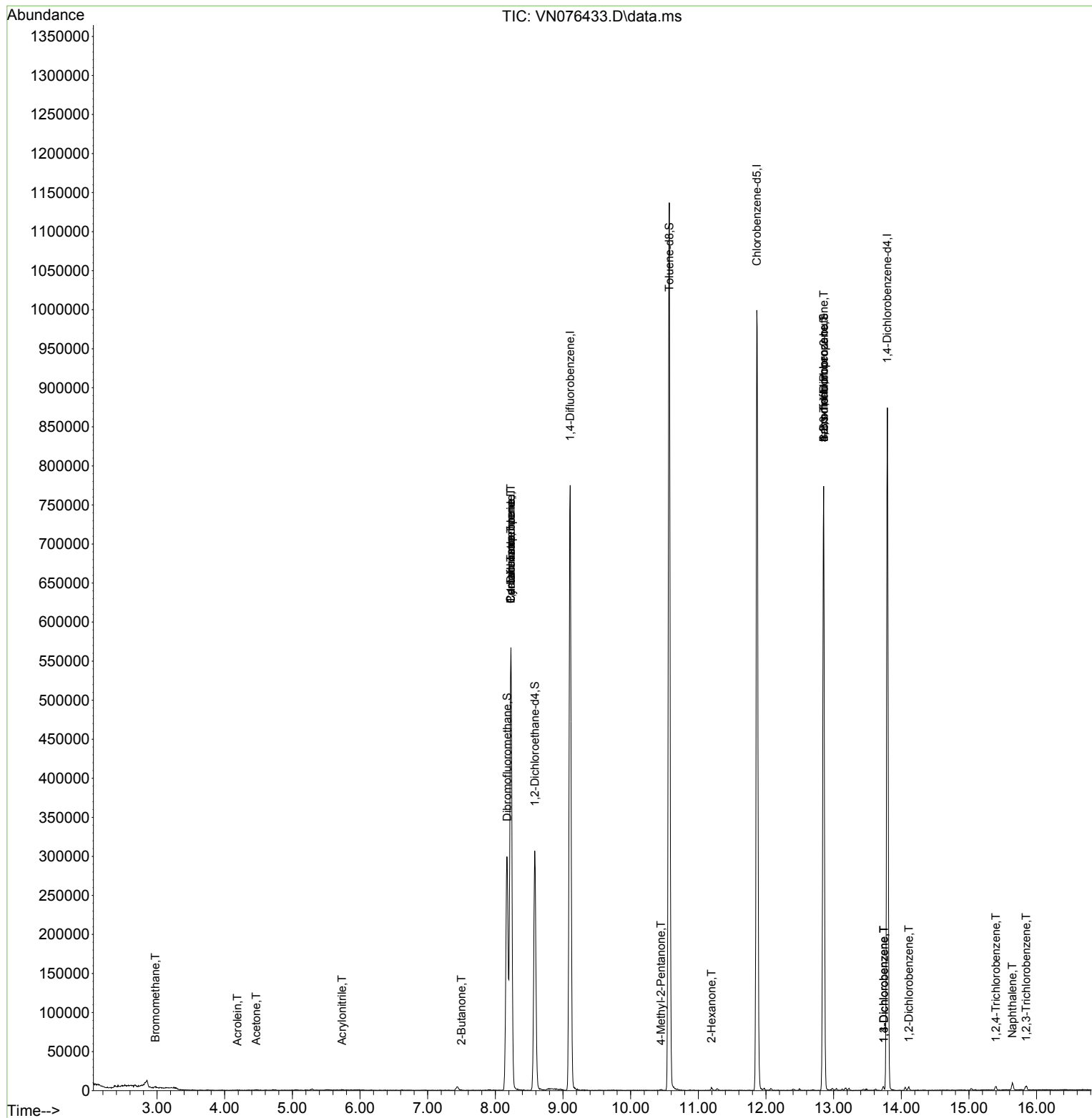
Internal Standards						
1) Pentafluorobenzene	8.230	168	419061	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	694898	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	596127	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	236023	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	255409	54.433	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	108.860%
35) Dibromofluoromethane	8.177	113	216790	49.873	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	99.740%
50) Toluene-d8	10.571	98	787902	49.080	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	98.160%
62) 4-Bromofluorobenzene	12.853	95	252371	48.156	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	96.320%
Target Compounds						
					Qvalue	
5) Bromomethane	2.977	94	988	0.221	ug/l #	76
13) Acrolein	4.189	56	488	0.650	ug/l #	31
15) Acrylonitrile	5.736	53	528	0.296	ug/l #	42
16) Acetone	4.465	43	1417	0.869	ug/l	91
20) Methylene Chloride	5.295	84	737	Below Cal	#	86
25) 2-Butanone	7.500	43	526	0.229	ug/l #	40
31) Cyclohexane	8.230	56	8999	1.248	ug/l #	28
36) 1,1-Dichloropropene	8.230	75	32647	5.285	ug/l #	48
38) Carbon Tetrachloride	8.230	117	42923	6.231	ug/l #	17
51) 4-Methyl-2-Pentanone	10.447	43	1001	0.212	ug/l #	69
59) 2-Hexanone	11.194	43	2131	0.622	ug/l	88
71) Bromoform	12.853	173	1774	0.524	ug/l #	1
76) 1,2,3-Trichloropropane	12.853	75	135608	31.182	ug/l #	1
77) Bromobenzene	12.976	156	531	Below Cal		77
81) trans-1,4-Dichloro-2-b...	12.853	75	135608	95.596	ug/l #	11
87) 1,3-Dichlorobenzene	13.741	146	2021	0.235	ug/l	96
88) 1,4-Dichlorobenzene	13.741	146	2021	0.348	ug/l	98
91) 1,2-Dichlorobenzene	14.112	146	2084	0.243	ug/l	93
93) 1,2,4-Trichlorobenzene	15.400	180	2084	1.795	ug/l	96
95) Naphthalene	15.641	128	9472	2.583	ug/l	97
96) 1,2,3-Trichlorobenzene	15.847	180	2555	1.786	ug/l	82

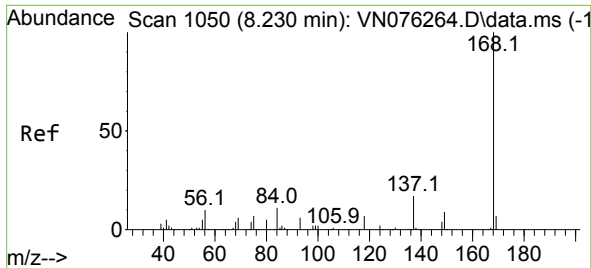
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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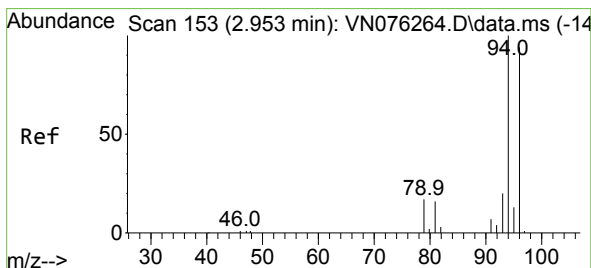
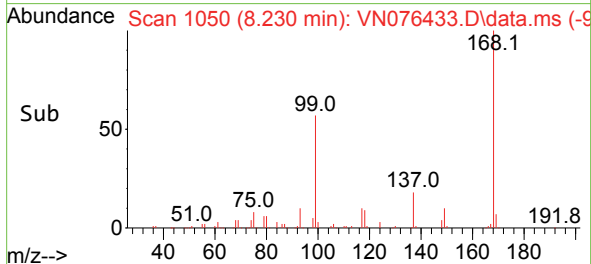
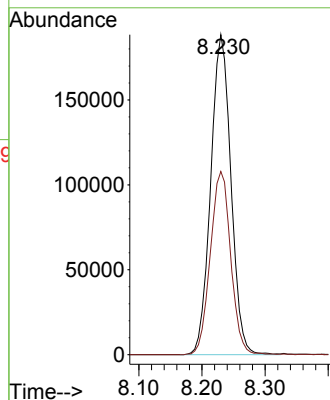
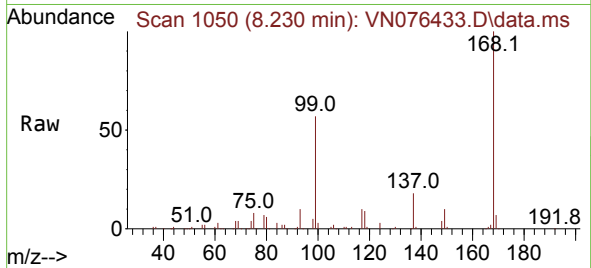




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.000 min
Lab File: VN076433.D
Acq: 27 Jan 2023 12:35

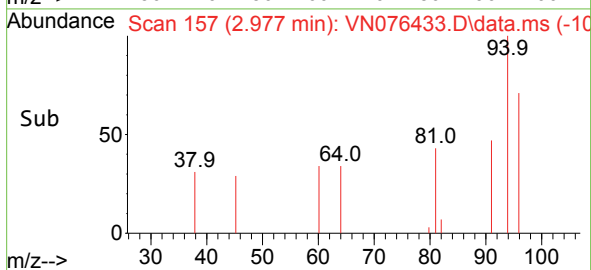
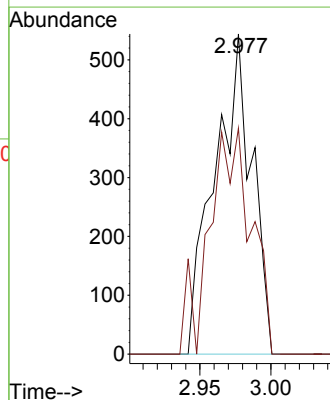
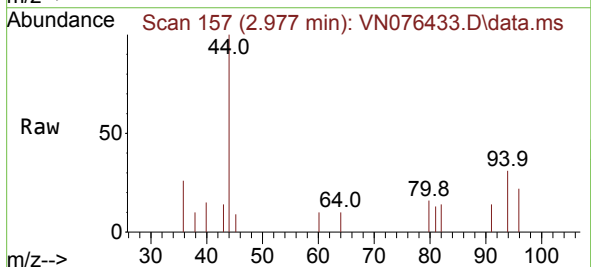
Instrument :
MSVOA_N
ClientSampleId :
IBLK

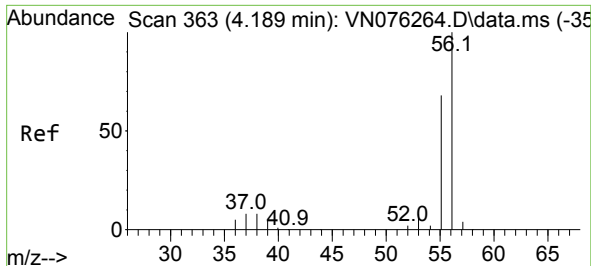
Tgt Ion:168 Resp: 419061
Ion Ratio Lower Upper
168 100
99 57.3 41.6 62.4



#5
Bromomethane
Concen: 0.221 ug/l
RT: 2.977 min Scan# 157
Delta R.T. 0.024 min
Lab File: VN076433.D
Acq: 27 Jan 2023 12:35

Tgt Ion: 94 Resp: 988
Ion Ratio Lower Upper
94 100
96 70.6 75.1 112.7#





#13

Acrolein

Concen: 0.650 ug/l

RT: 4.189 min Scan# 3

Delta R.T. -0.000 min

Lab File: VN076433.D

Acq: 27 Jan 2023 12:35

Instrument :

MSVOA_N

ClientSampleId :

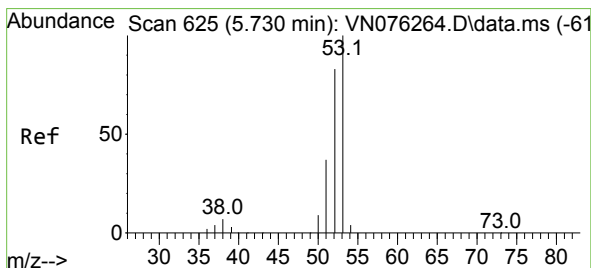
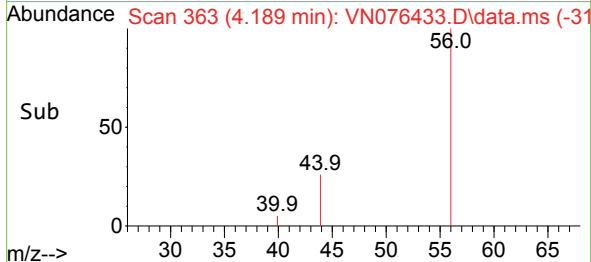
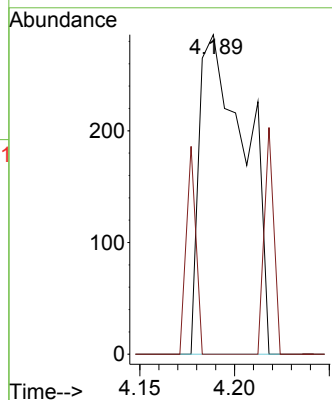
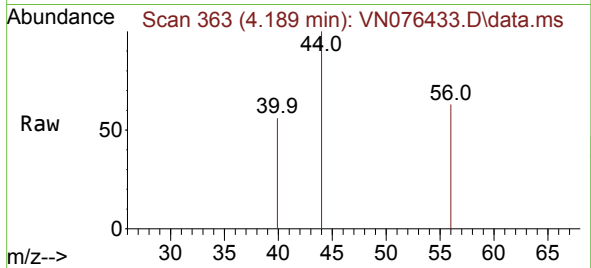
IBLK

Tgt Ion: 56 Resp: 488

Ion Ratio Lower Upper

56 100

55 13.5 55.8 83.6#



#15

Acrylonitrile

Concen: 0.296 ug/l

RT: 5.736 min Scan# 626

Delta R.T. 0.006 min

Lab File: VN076433.D

Acq: 27 Jan 2023 12:35

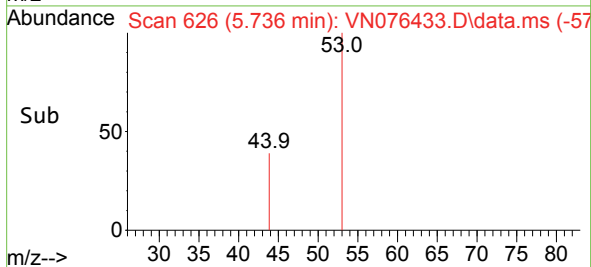
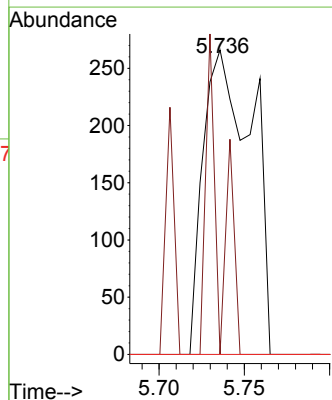
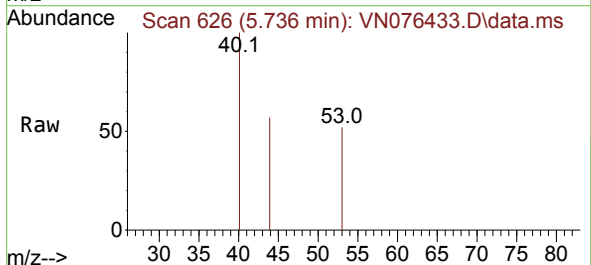
Tgt Ion: 53 Resp: 528

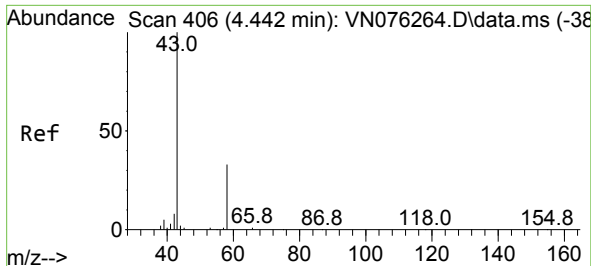
Ion Ratio Lower Upper

53 100

52 31.3 64.7 97.1#

51 0.0 29.2 43.8#





#16

Acetone

Concen: 0.869 ug/l

RT: 4.465 min Scan# 410

Delta R.T. 0.023 min

Lab File: VN076433.D

Acq: 27 Jan 2023 12:35

Instrument :

MSVOA_N

ClientSampleId :

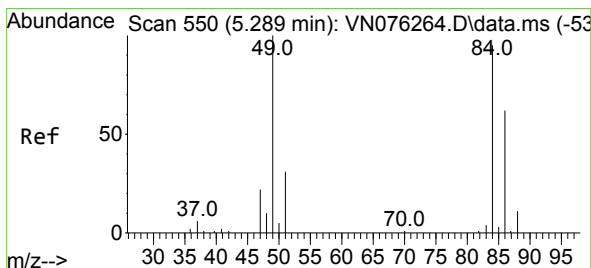
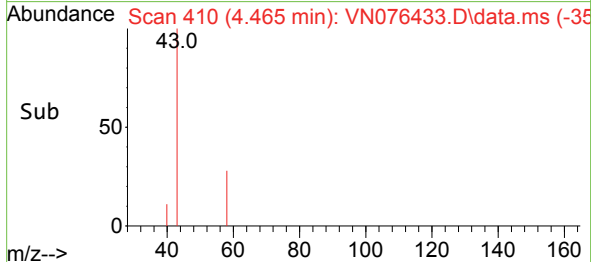
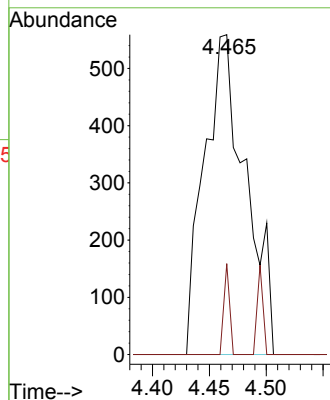
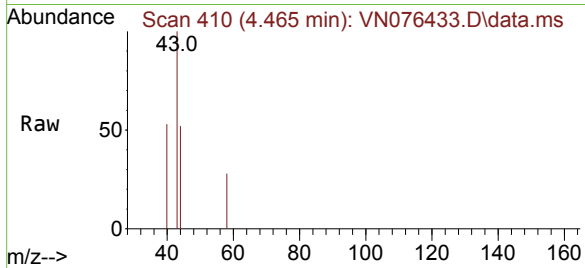
IBLK

Tgt Ion: 43 Resp: 1417

Ion Ratio Lower Upper

43 100

58 28.4 26.7 40.1



#20

Methylene Chloride

Concen: Below Cal

RT: 5.295 min Scan# 551

Delta R.T. 0.006 min

Lab File: VN076433.D

Acq: 27 Jan 2023 12:35

Tgt Ion: 84 Resp: 737

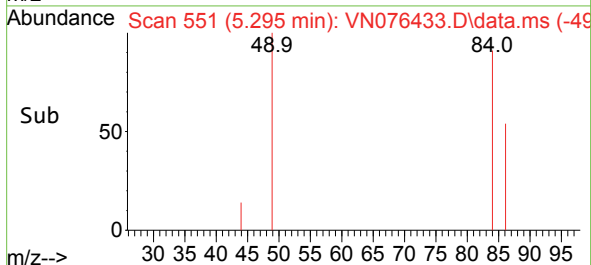
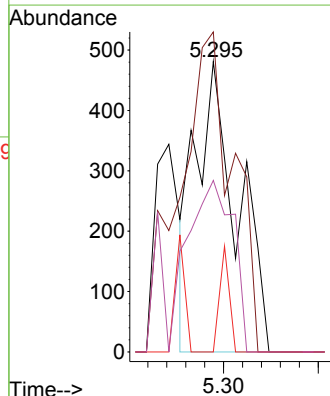
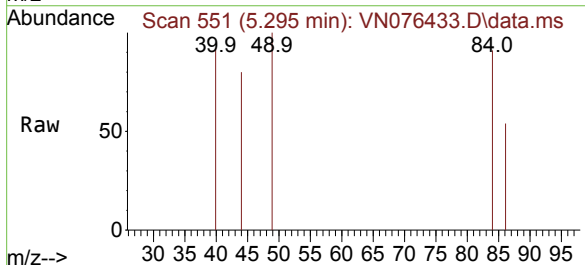
Ion Ratio Lower Upper

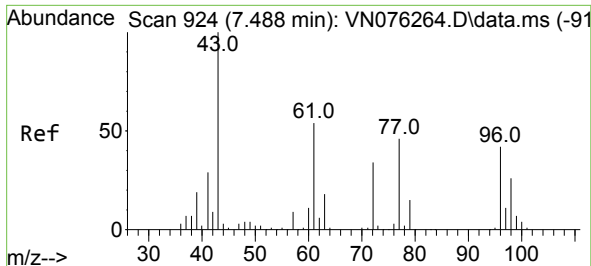
84 100

49 110.2 84.5 126.7

51 0.0 26.0 39.0#

86 59.0 52.0 78.0

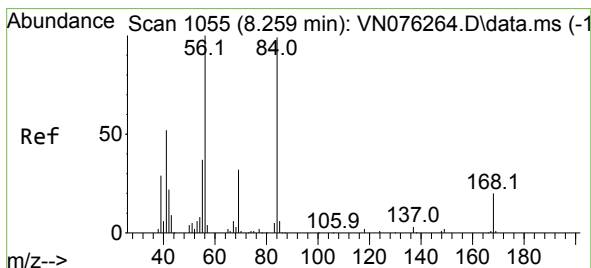
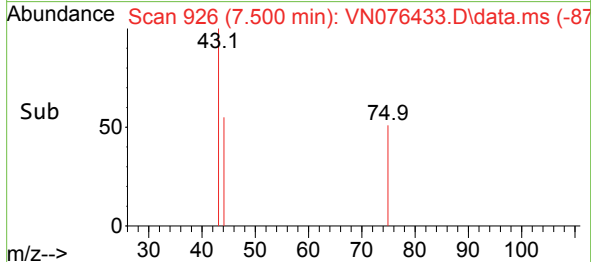
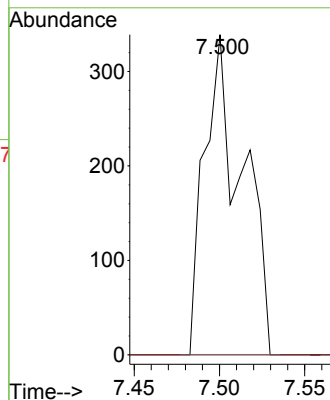
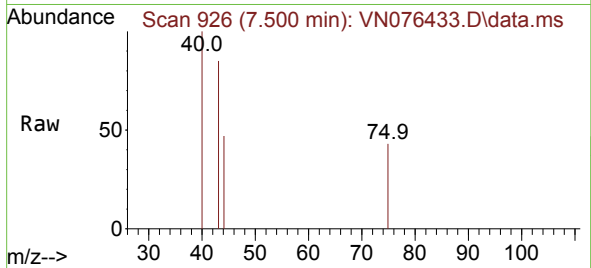




#25
2-Butanone
Concen: 0.229 ug/l
RT: 7.500 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN076433.D
Acq: 27 Jan 2023 12:35

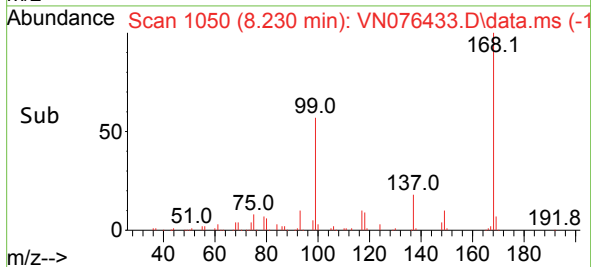
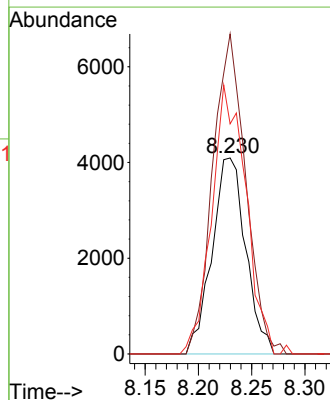
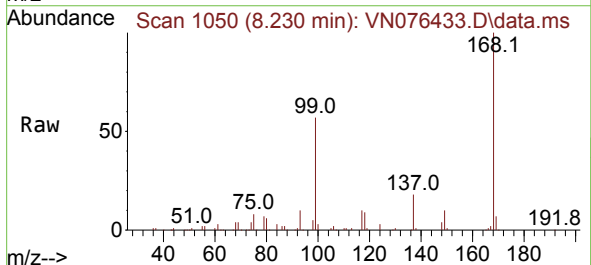
Instrument :
MSVOA_N
ClientSampleId :
IBLK

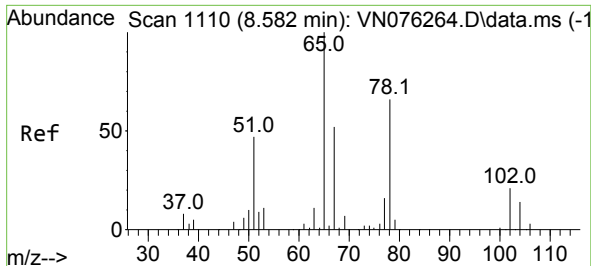
Tgt Ion: 43 Resp: 526
Ion Ratio Lower Upper
43 100
72 0.0 27.4 41.2#



#31
Cyclohexane
Concen: 1.248 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.029 min
Lab File: VN076433.D
Acq: 27 Jan 2023 12:35

Tgt Ion: 56 Resp: 8999
Ion Ratio Lower Upper
56 100
69 163.3 25.8 38.8#
84 117.4 79.0 118.4





#33

1,2-Dichloroethane-d4

Concen: 54.433 ug/l

RT: 8.583 min Scan# 1110

Delta R.T. 0.001 min

Lab File: VN076433.D

Acq: 27 Jan 2023 12:35

Instrument :

MSVOA_N

ClientSampleId :

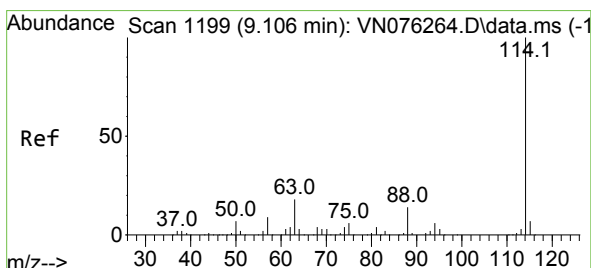
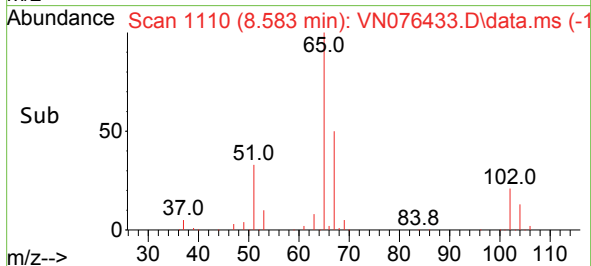
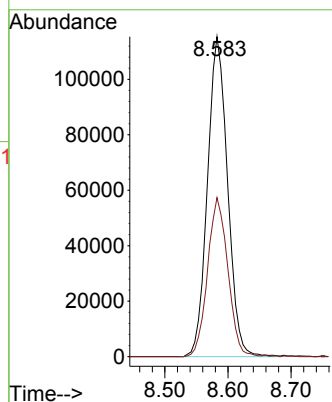
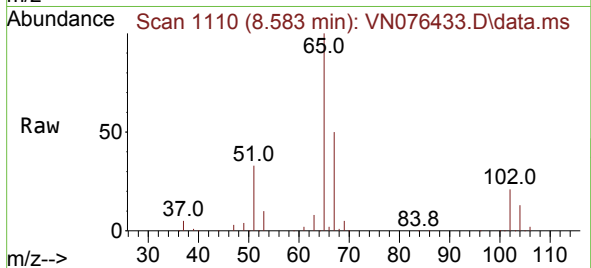
IBLK

Tgt Ion: 65 Resp: 255409

Ion Ratio Lower Upper

65 100

67 50.1 0.0 104.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1199

Delta R.T. 0.000 min

Lab File: VN076433.D

Acq: 27 Jan 2023 12:35

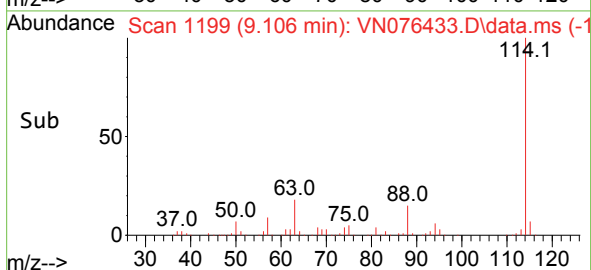
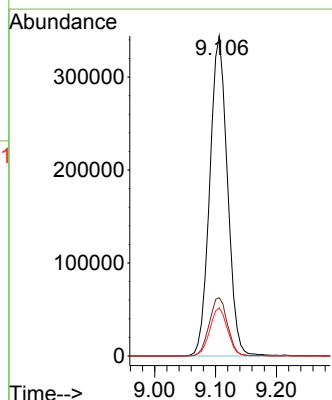
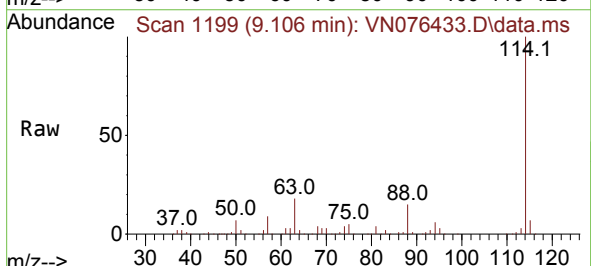
Tgt Ion:114 Resp: 694898

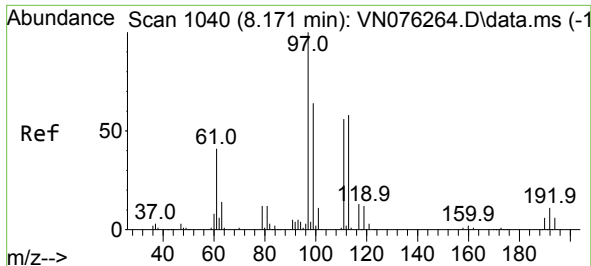
Ion Ratio Lower Upper

114 100

63 18.2 0.0 35.8

88 15.0 0.0 28.0





#35

Dibromofluoromethane

Concen: 49.873 ug/l

RT: 8.177 min Scan# 1040

Delta R.T. 0.006 min

Lab File: VN076433.D

Acq: 27 Jan 2023 12:35

Instrument :

MSVOA_N

ClientSampleId :

IBLK

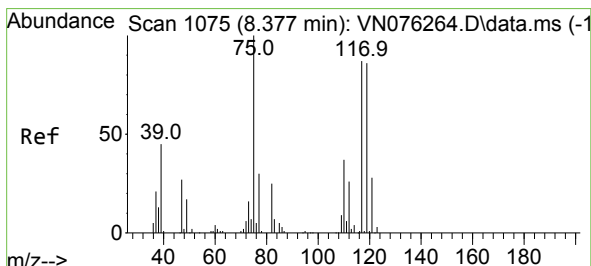
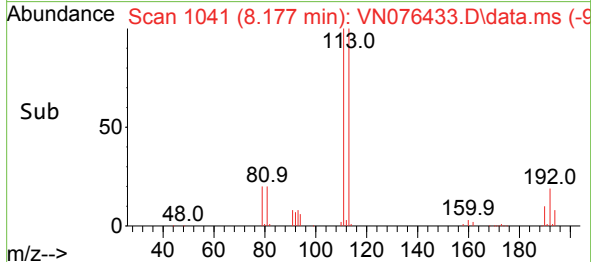
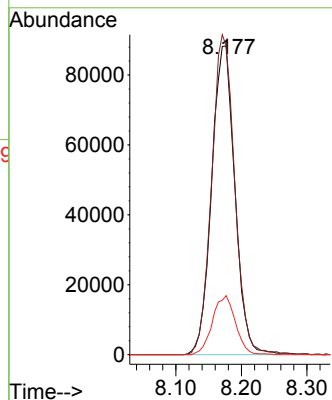
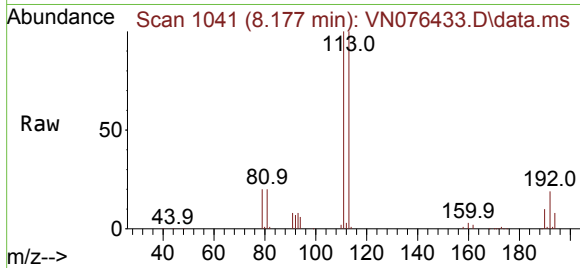
Tgt Ion:113 Resp: 216790

Ion Ratio Lower Upper

113 100

111 103.1 82.7 124.1

192 19.0 15.6 23.4



#36

1,1-Dichloropropene

Concen: 5.285 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.147 min

Lab File: VN076433.D

Acq: 27 Jan 2023 12:35

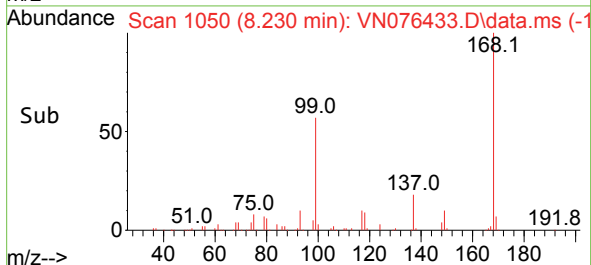
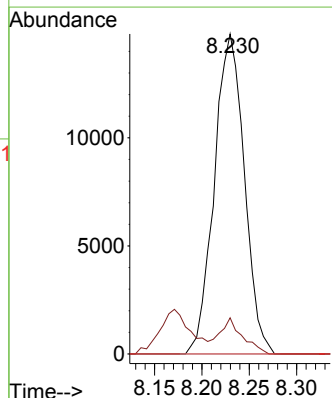
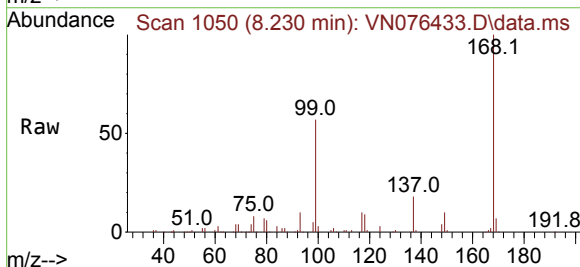
Tgt Ion: 75 Resp: 32647

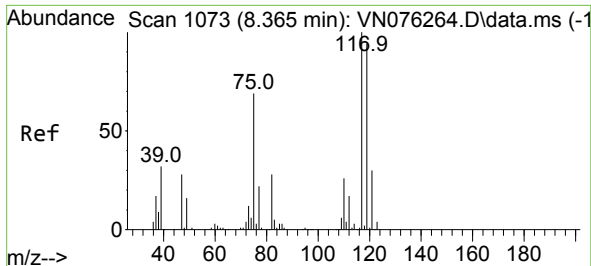
Ion Ratio Lower Upper

75 100

110 8.7 18.8 56.3#

77 0.0 25.0 37.4#

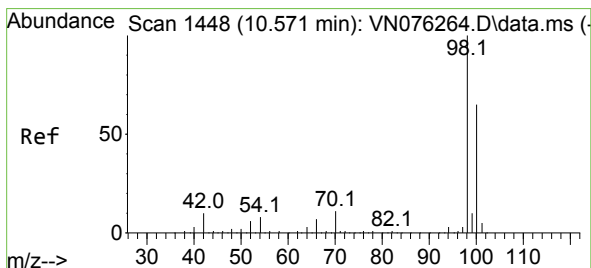
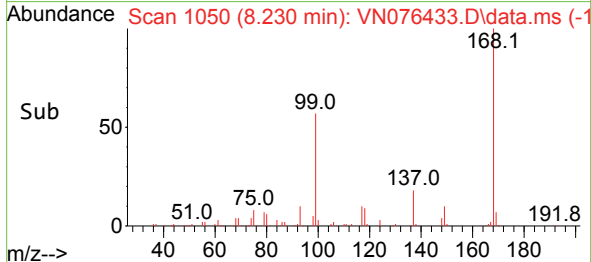
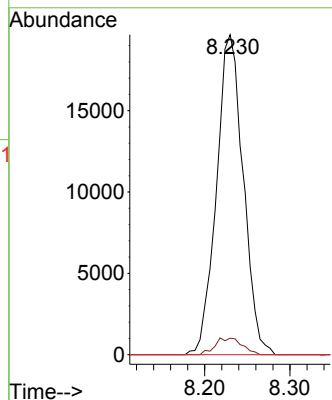
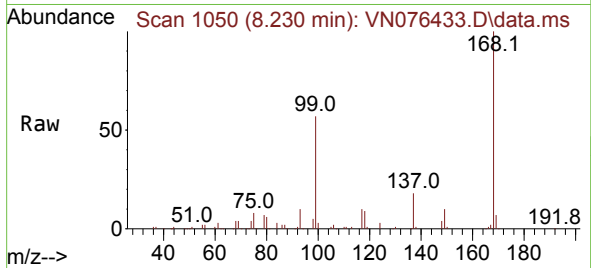




#38
Carbon Tetrachloride
Concen: 6.231 ug/l
RT: 8.230 min Scan# 1073
Delta R.T. -0.135 min
Lab File: VN076433.D
Acq: 27 Jan 2023 12:35

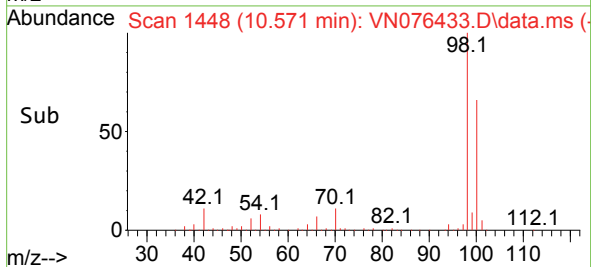
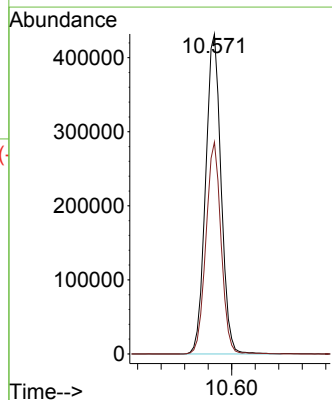
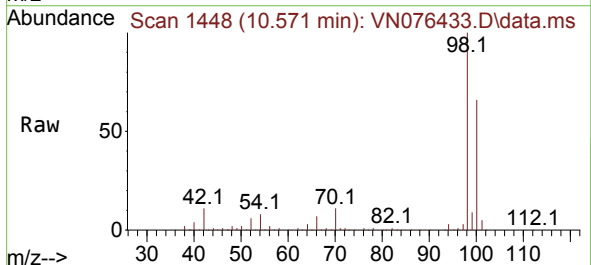
Instrument :
MSVOA_N
ClientSampleId :
IBLK

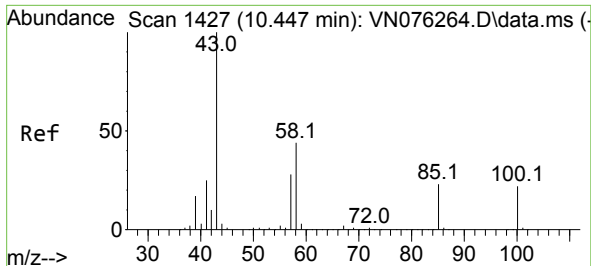
Tgt Ion:117 Resp: 42923
Ion Ratio Lower Upper
117 100
119 5.1 75.4 113.0#
121 0.0 24.2 36.2#



#50
Toluene-d8
Concen: 49.080 ug/l
RT: 10.571 min Scan# 1448
Delta R.T. -0.000 min
Lab File: VN076433.D
Acq: 27 Jan 2023 12:35

Tgt Ion: 98 Resp: 787902
Ion Ratio Lower Upper
98 100
100 64.9 52.2 78.4





#51

4-Methyl-2-Pentanone

Concen: 0.212 ug/l

RT: 10.447 min Scan# 1427

Delta R.T. 0.000 min

Lab File: VN076433.D

Acq: 27 Jan 2023 12:35

Instrument :

MSVOA_N

ClientSampleId :

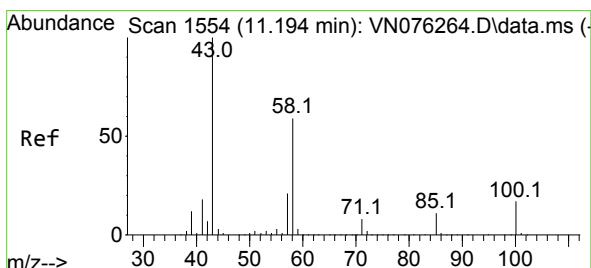
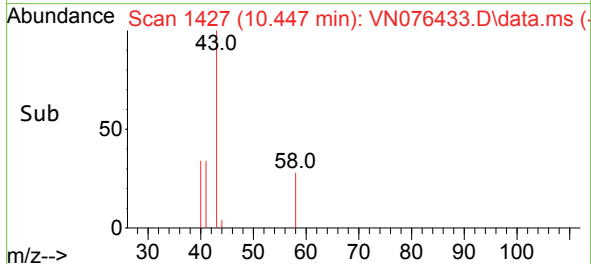
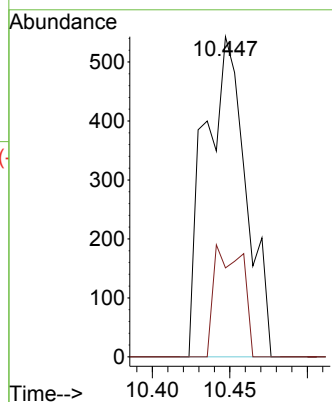
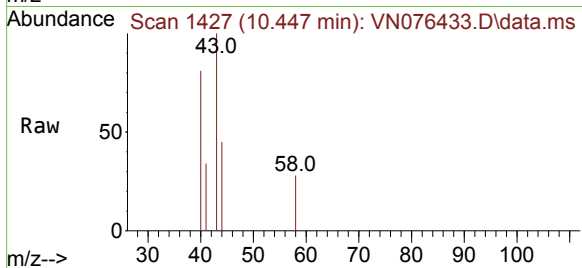
IBLK

Tgt Ion: 43 Resp: 1001

Ion Ratio Lower Upper

43 100

58 23.9 35.1 52.7#



#59

2-Hexanone

Concen: 0.622 ug/l

RT: 11.194 min Scan# 1554

Delta R.T. 0.000 min

Lab File: VN076433.D

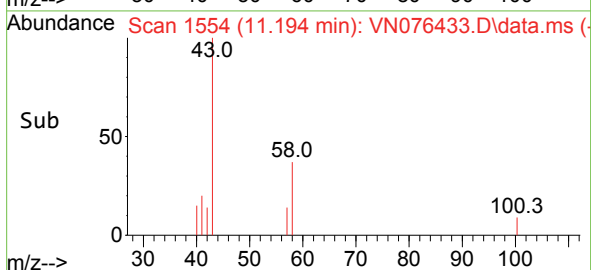
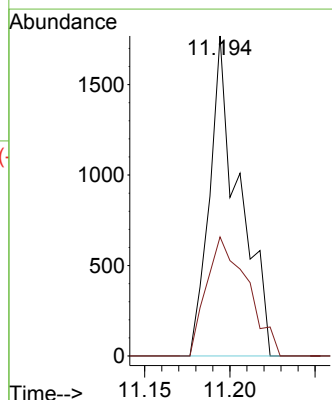
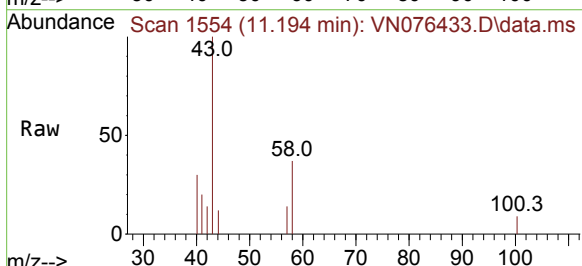
Acq: 27 Jan 2023 12:35

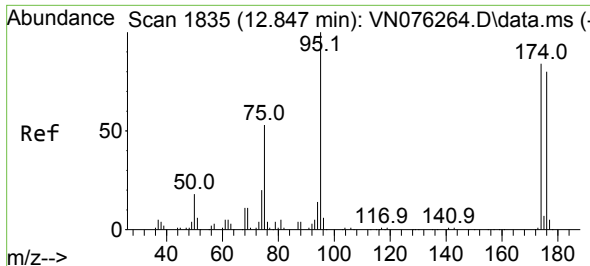
Tgt Ion: 43 Resp: 2131

Ion Ratio Lower Upper

43 100

58 51.4 30.1 90.3

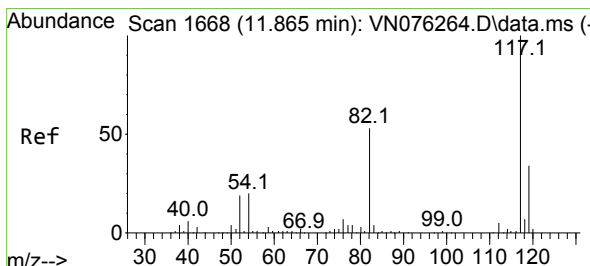
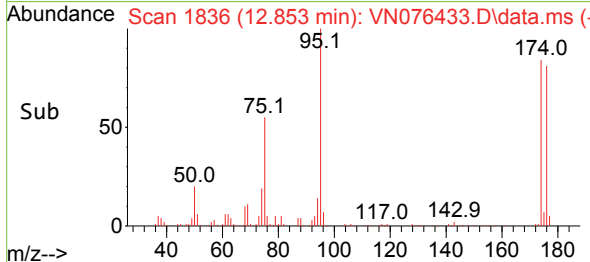
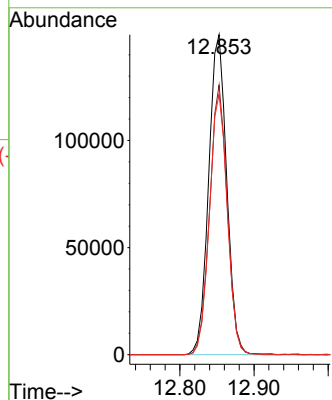
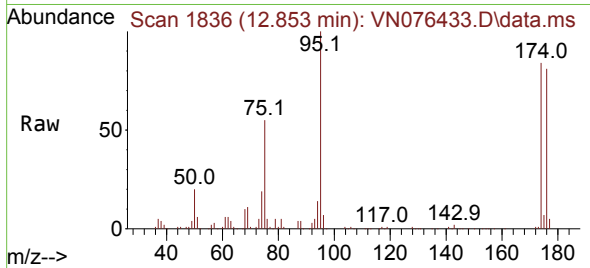




#62
4-Bromofluorobenzene
Concen: 48.156 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.006 min
Lab File: VN076433.D
Acq: 27 Jan 2023 12:35

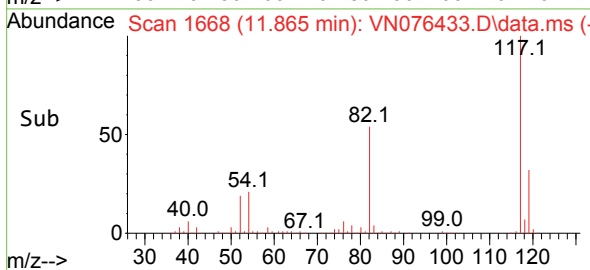
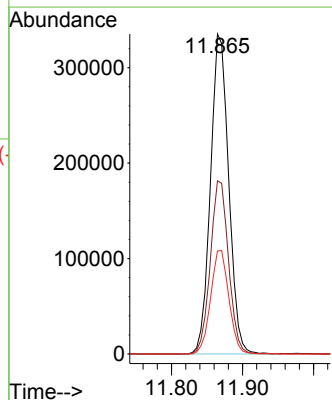
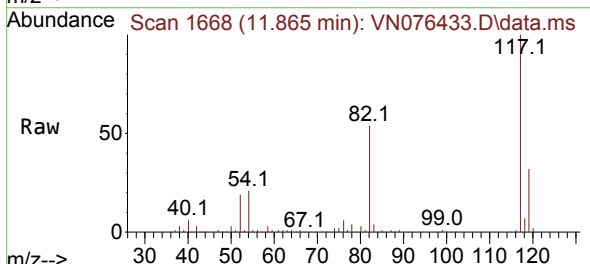
Instrument :
MSVOA_N
ClientSampleId :
IBLK

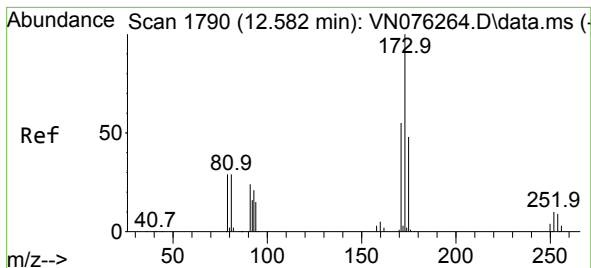
Tgt Ion: 95 Resp: 252371
Ion Ratio Lower Upper
95 100
174 82.6 0.0 174.6
176 80.5 0.0 167.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1668
Delta R.T. -0.000 min
Lab File: VN076433.D
Acq: 27 Jan 2023 12:35

Tgt Ion: 117 Resp: 596127
Ion Ratio Lower Upper
117 100
82 54.1 42.2 63.2
119 32.2 26.9 40.3





#71

Bromoform

Concen: 0.524 ug/l

RT: 12.853 min Scan# 1836

Delta R.T. 0.271 min

Lab File: VN076433.D

Acq: 27 Jan 2023 12:35

Instrument :

MSVOA_N

ClientSampleId :

IBLK

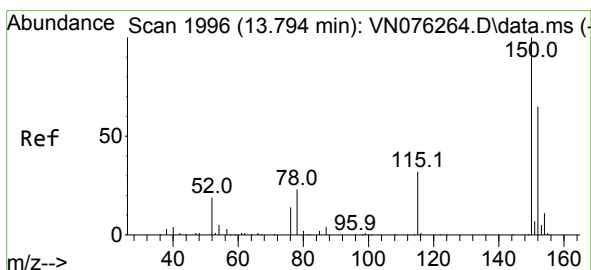
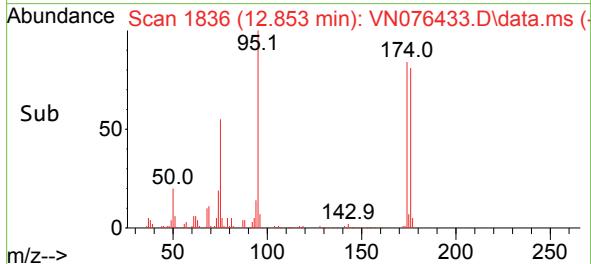
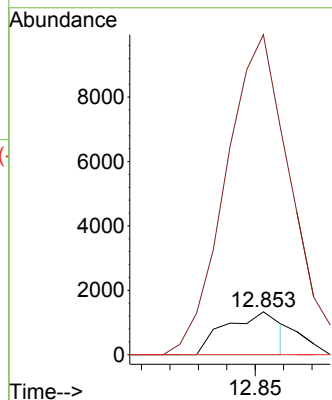
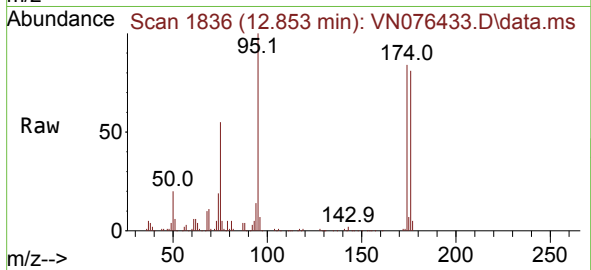
Tgt Ion:173 Resp: 1774

Ion Ratio Lower Upper

173 100

175 740.6 24.1 72.4#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 1996

Delta R.T. 0.000 min

Lab File: VN076433.D

Acq: 27 Jan 2023 12:35

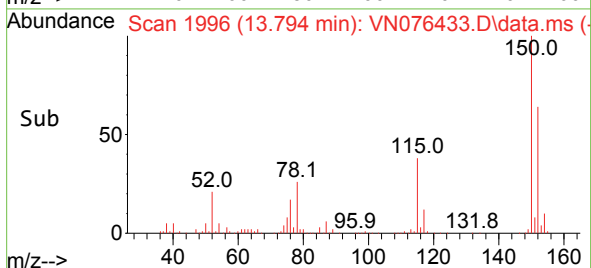
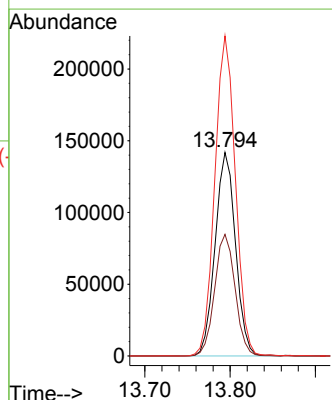
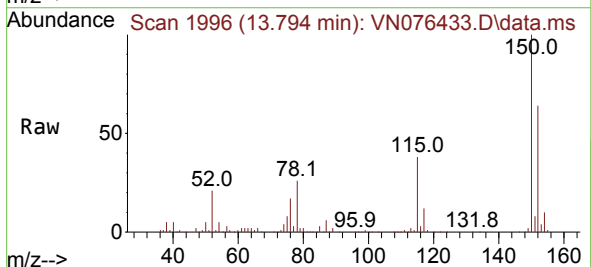
Tgt Ion:152 Resp: 236023

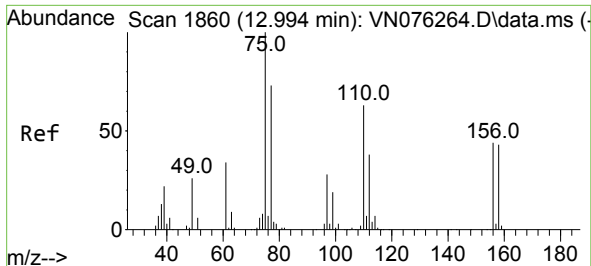
Ion Ratio Lower Upper

152 100

115 59.9 29.6 88.9

150 158.3 0.0 351.4

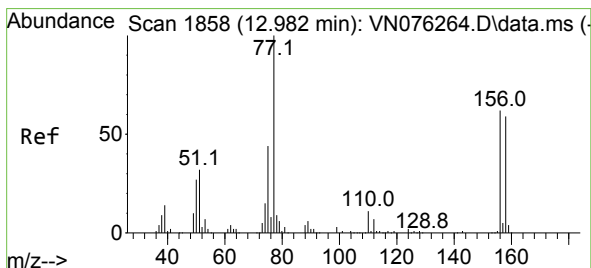
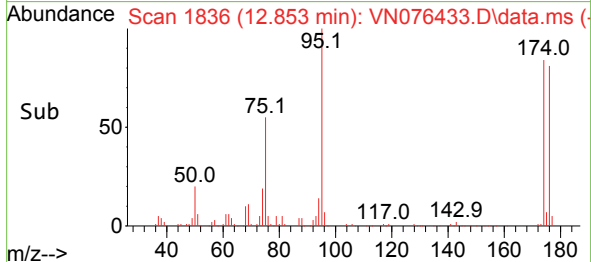
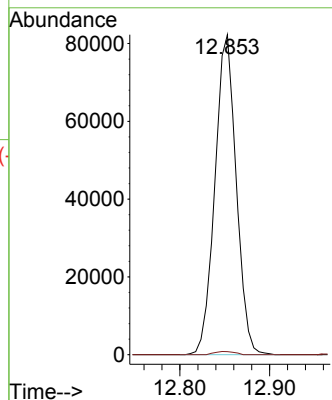
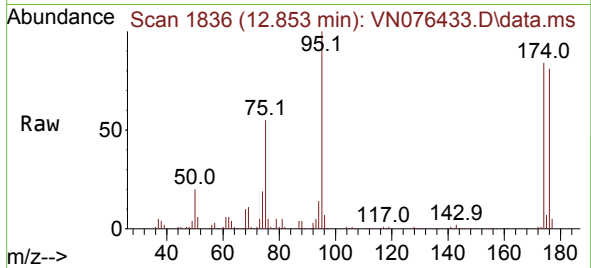




#76
1,2,3-Trichloropropane
Concen: 31.182 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.141 min
Lab File: VN076433.D
Acq: 27 Jan 2023 12:35

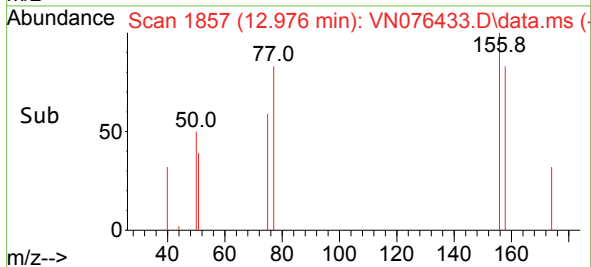
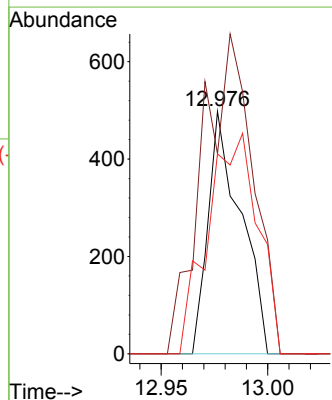
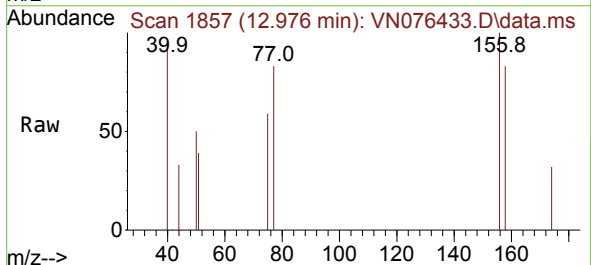
Instrument :
MSVOA_N
ClientSampleId :
IBLK

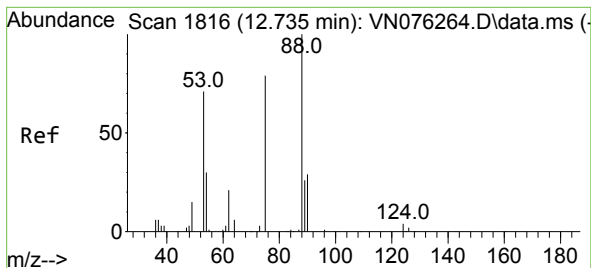
Tgt Ion: 75 Resp: 135608
Ion Ratio Lower Upper
75 100
77 0.9 75.2 225.6#



#77
Bromobenzene
Concen: Below Cal
RT: 12.976 min Scan# 1857
Delta R.T. -0.006 min
Lab File: VN076433.D
Acq: 27 Jan 2023 12:35

Tgt Ion:156 Resp: 531
Ion Ratio Lower Upper
156 100
77 203.8 93.4 280.2
158 140.1 48.4 145.2

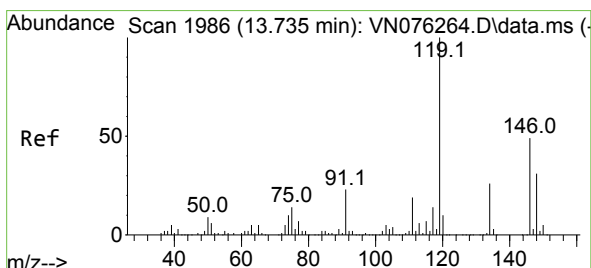
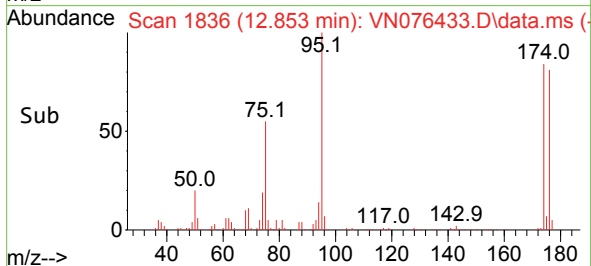
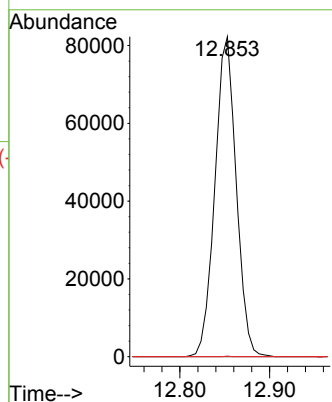
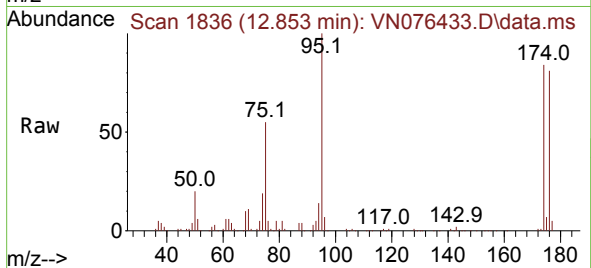




#81
trans-1,4-Dichloro-2-butene
Concen: 95.596 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.118 min
Lab File: VN076433.D
Acq: 27 Jan 2023 12:35

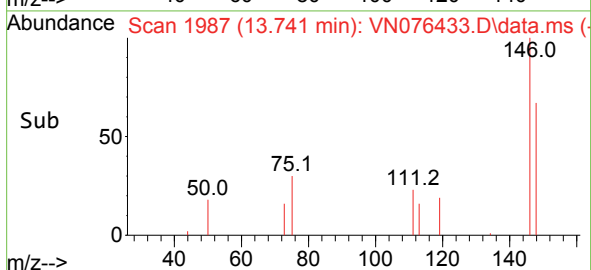
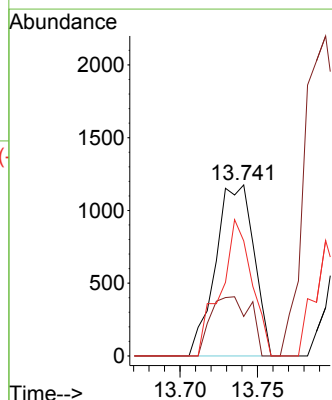
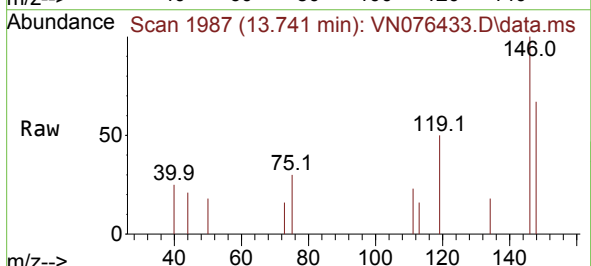
Instrument :
MSVOA_N
ClientSampleId :
IBLK

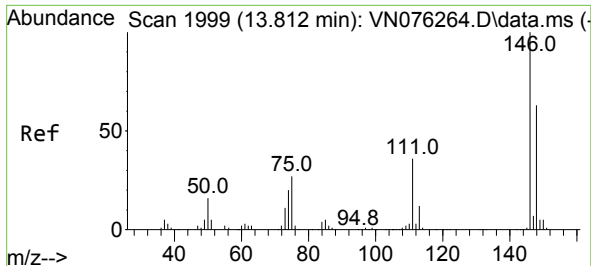
Tgt Ion: 75 Resp: 135608
Ion Ratio Lower Upper
75 100
53 0.0 75.8 113.8#
89 0.0 37.0 55.6#



#87
1,3-Dichlorobenzene
Concen: 0.235 ug/l
RT: 13.741 min Scan# 1987
Delta R.T. 0.006 min
Lab File: VN076433.D
Acq: 27 Jan 2023 12:35

Tgt Ion: 146 Resp: 2021
Ion Ratio Lower Upper
146 100
111 35.8 19.9 59.7
148 64.9 31.6 94.8

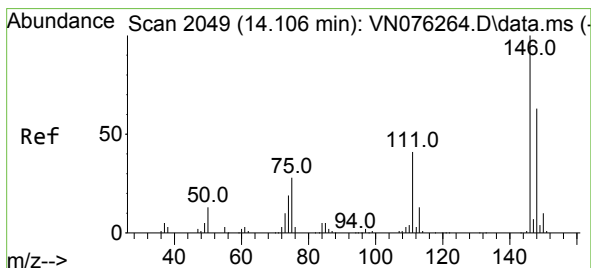
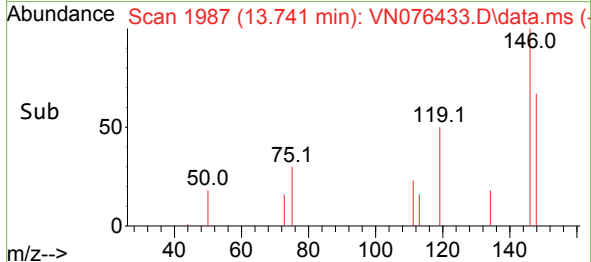
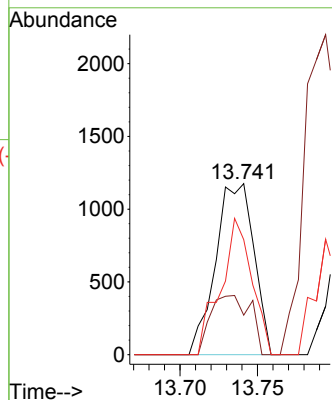
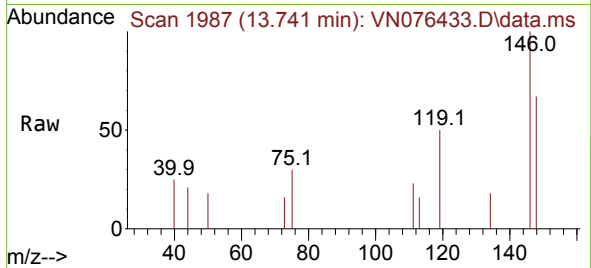




#88
1,4-Dichlorobenzene
Concen: 0.348 ug/l
RT: 13.741 min Scan# 1999
Delta R.T. -0.071 min
Lab File: VN076433.D
Acq: 27 Jan 2023 12:35

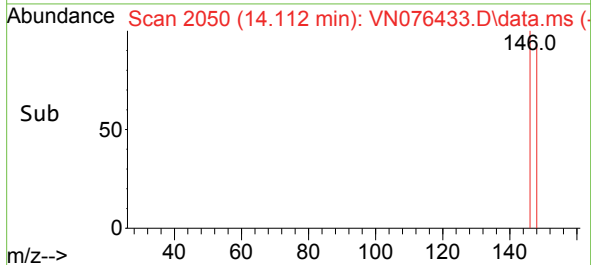
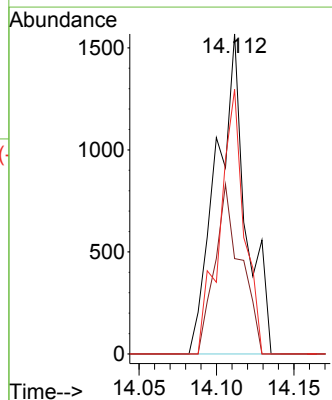
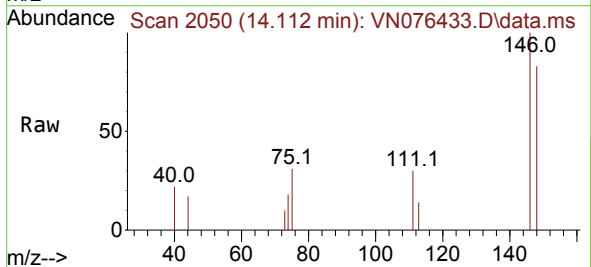
Instrument :
MSVOA_N
ClientSampleId :
IBLK

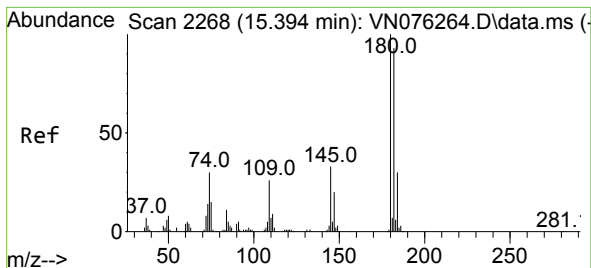
Tgt Ion:146 Resp: 2021
Ion Ratio Lower Upper
146 100
111 35.8 19.1 57.5
148 64.9 31.9 95.9



#91
1,2-Dichlorobenzene
Concen: 0.243 ug/l
RT: 14.112 min Scan# 2050
Delta R.T. 0.006 min
Lab File: VN076433.D
Acq: 27 Jan 2023 12:35

Tgt Ion:146 Resp: 2084
Ion Ratio Lower Upper
146 100
111 46.4 20.3 60.8
148 67.8 31.8 95.4





#93

1,2,4-Trichlorobenzene

Concen: 1.795 ug/l

RT: 15.400 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN076433.D

Acq: 27 Jan 2023 12:35

Instrument :

MSVOA_N

ClientSampleId :

IBLK

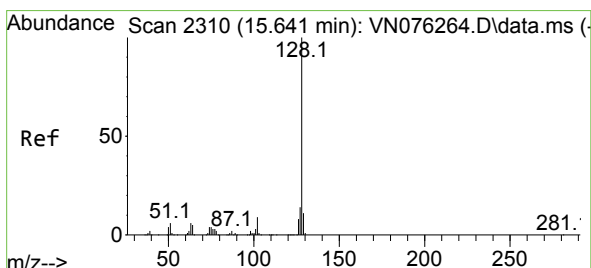
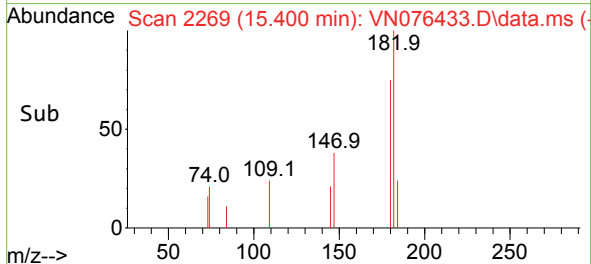
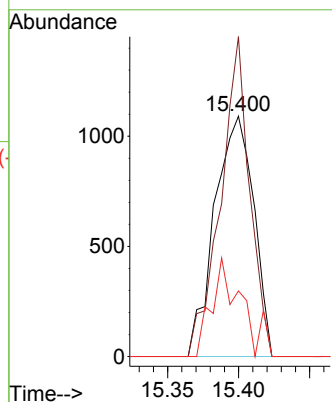
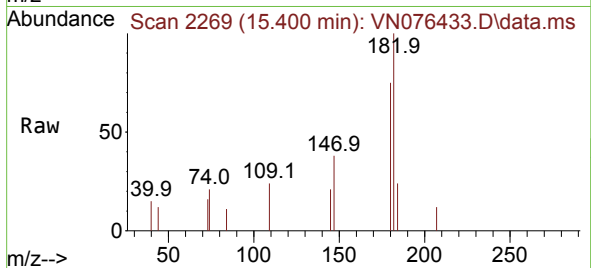
Tgt Ion:180 Resp: 2084

Ion Ratio Lower Upper

180 100

182 98.7 47.0 141.2

145 31.7 15.2 45.5



#95

Naphthalene

Concen: 2.583 ug/l

RT: 15.641 min Scan# 2310

Delta R.T. -0.000 min

Lab File: VN076433.D

Acq: 27 Jan 2023 12:35

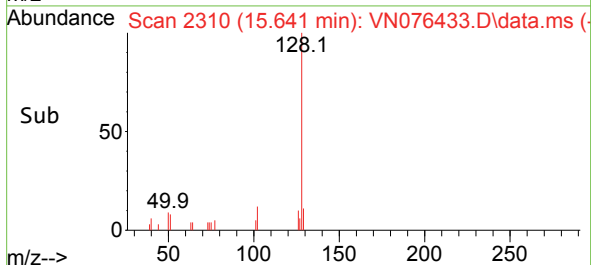
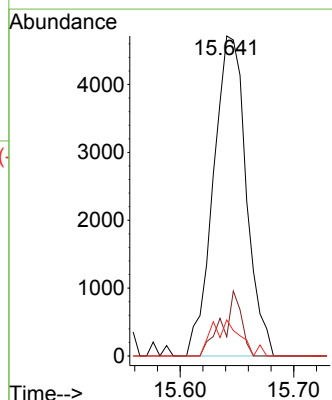
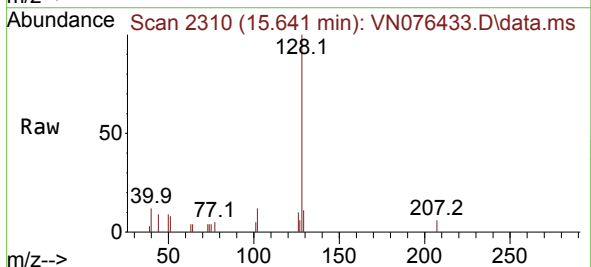
Tgt Ion:128 Resp: 9472

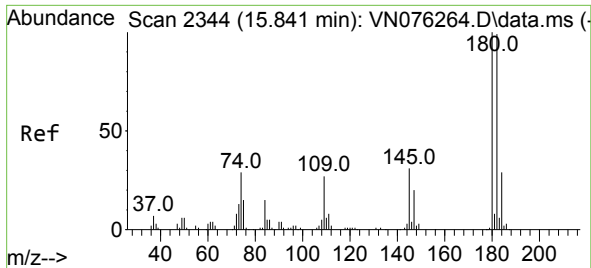
Ion Ratio Lower Upper

128 100

127 11.8 10.3 15.5

129 9.7 8.6 13.0





#96
 1,2,3-Trichlorobenzene
 Concen: 1.786 ug/l
 RT: 15.847 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN076433.D
 Acq: 27 Jan 2023 12:35

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

Tgt Ion:180 Resp: 2555
 Ion Ratio Lower Upper
 180 100
 182 73.7 47.5 142.5
 145 34.8 15.9 47.6

