

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021524\
 Data File : VN081042.D
 Acq On : 15 Feb 2024 16:19
 Operator : JC\MD
 Sample : IBLK
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

Quant Time: Feb 16 00:25:41 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021424W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 15 07:59:19 2024
 Response via : Initial Calibration

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

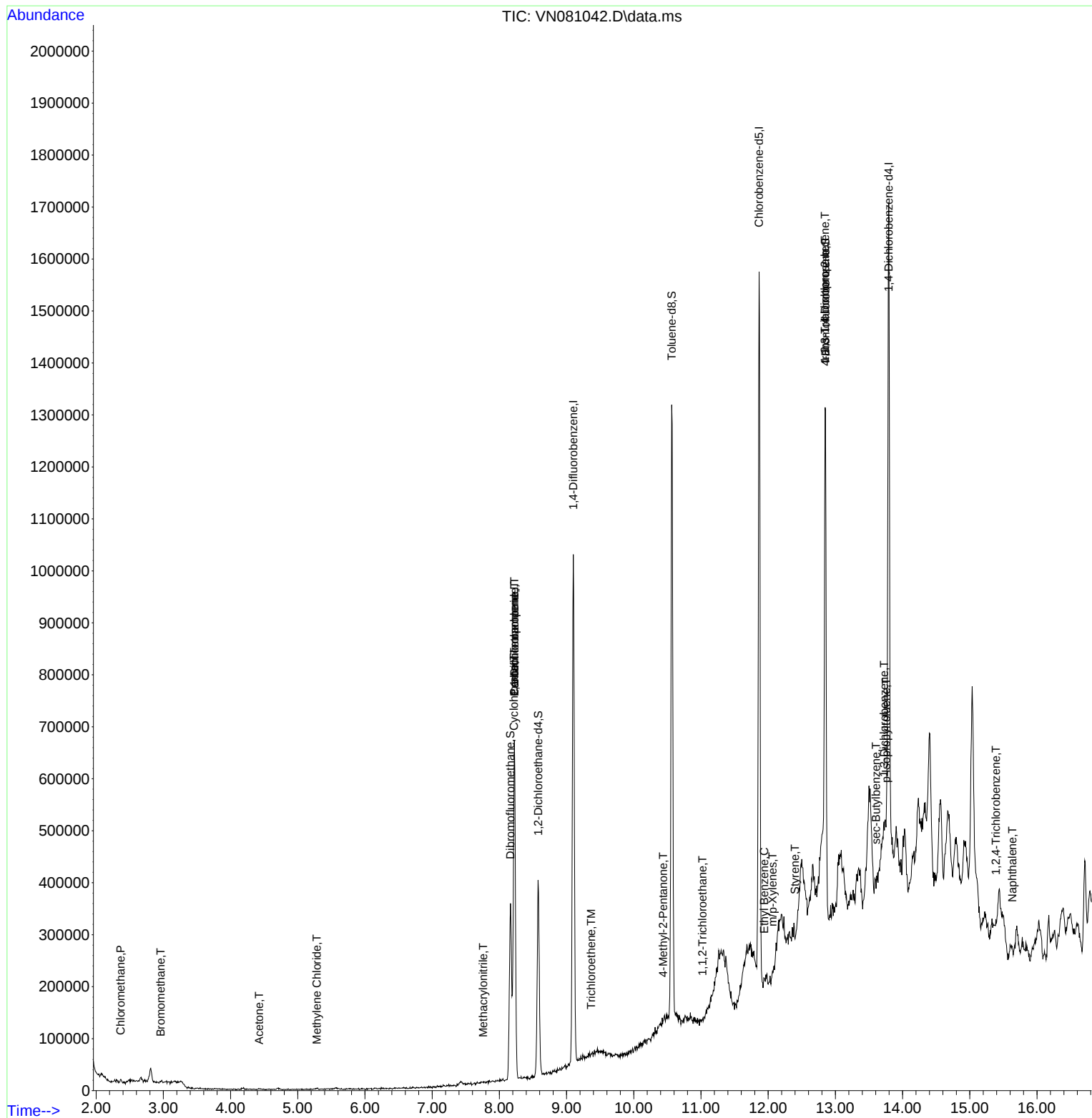
Internal Standards						
1) Pentafluorobenzene	8.224	168	460820	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	9.100	114	850894	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	783423	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	309677	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	285888	50.437	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.880%			
35) Dibromofluoromethane	8.165	113	239042	48.998	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.000%			
50) Toluene-d8	10.565	98	806340	46.865	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 93.720%			
62) 4-Bromofluorobenzene	12.853	95	322794	55.163	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 110.320%			
Target Compounds						Qvalue
3) Chloromethane	2.365	50	9418	1.127	ug/l	# 81
5) Bromomethane	2.959	94	1094	0.349	ug/l	# 49
13) Acrolein	4.171	56	1107	Below Cal		# 15
16) Acetone	4.424	43	1640	0.739	ug/l	# 44
20) Methylene Chloride	5.283	84	1445	0.250	ug/l	# 51
31) Cyclohexane	8.218	56	13062	1.327	ug/l	# 7
36) 1,1-Dichloropropene	8.224	75	38944	4.784	ug/l	# 53
38) Carbon Tetrachloride	8.224	117	49481	8.305	ug/l	# 17
41) Methacrylonitrile	7.759	41	1223	0.271	ug/l	# 47
44) Trichloroethene	9.365	130	1930	0.271	ug/l	90
49) 1,4-Dioxane	9.700	88	825	Below Cal		# 36
51) 4-Methyl-2-Pentanone	10.435	43	1886	0.242	ug/l	# 79
55) 1,1,2-Trichloroethane	11.024	97	1280	0.226	ug/l	# 19
67) Ethyl Benzene	11.941	91	6732	0.217	ug/l	# 50
68) m/p-Xylenes	12.065	106	2855	0.250	ug/l	# 58
70) Styrene	12.400	104	3685	0.209	ug/l	# 41
76) 1,2,3-Trichloropropane	12.847	75	174327	25.477	ug/l	# 1
81) trans-1,4-Dichloro-2-b...	12.847	75	174327	59.306	ug/l	# 14
85) sec-Butylbenzene	13.606	105	7510	0.263	ug/l	80
86) p-Isopropyltoluene	13.753	119	10518	0.459	ug/l	# 53
87) 1,3-Dichlorobenzene	13.723	146	5581	0.518	ug/l	# 63
90) Hexachloroethane	14.394	117	851	Below Cal		84
92) 1,2-Dibromo-3-Chloropr...	14.988	75	632	Below Cal		80
93) 1,2,4-Trichlorobenzene	15.388	180	2602	0.416	ug/l	# 18
95) Naphthalene	15.635	128	13298	0.597	ug/l	# 1

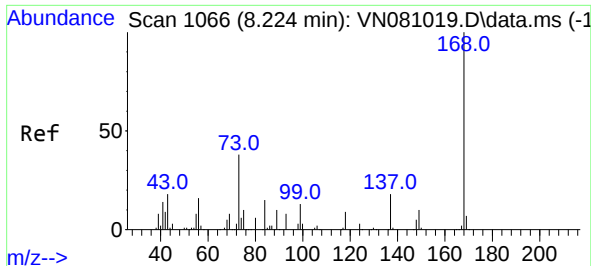
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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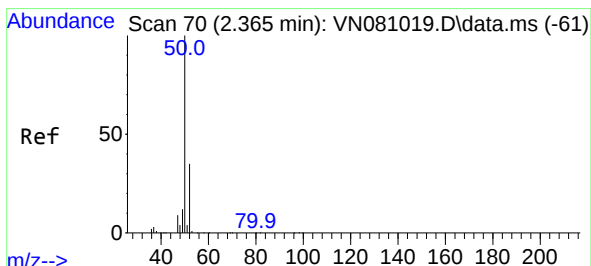
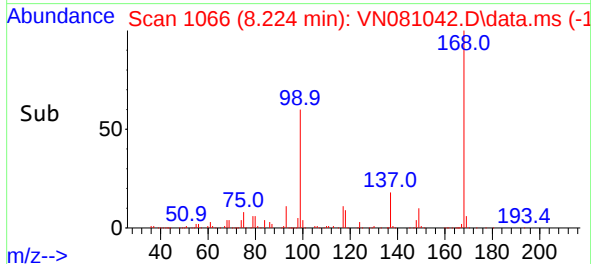
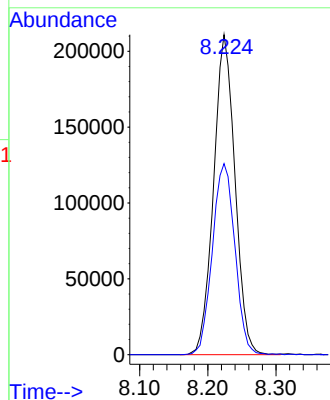
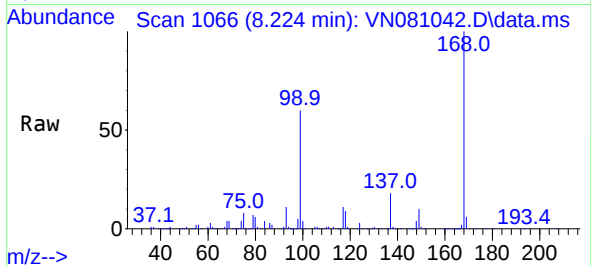




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN081042.D
Acq: 15 Feb 2024 16:19

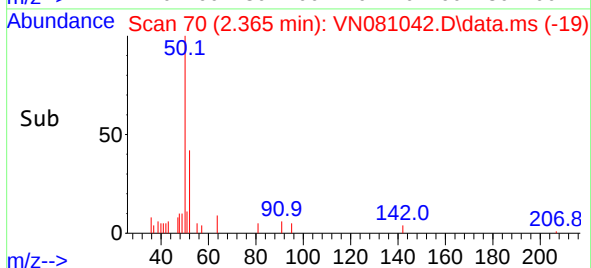
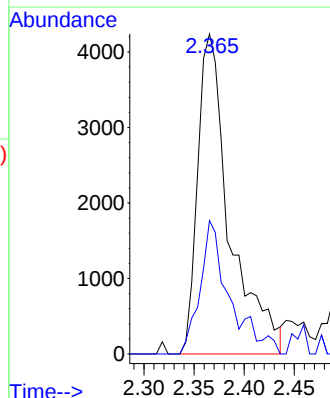
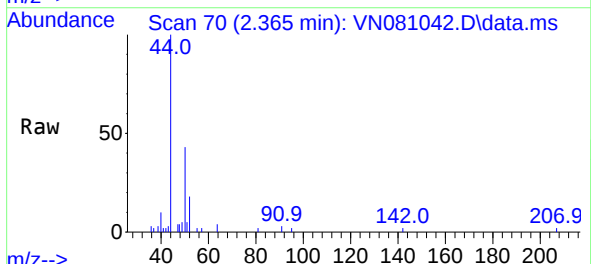
Instrument :
MSVOA_N
ClientSampleId :
IBLK

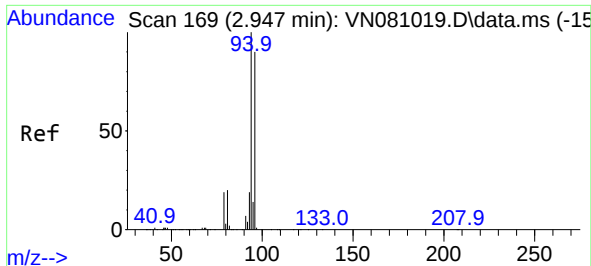
Tgt Ion:168 Resp: 460820
Ion Ratio Lower Upper
168 100
99 59.7 59.9 89.9#



#3
Chloromethane
Concen: 1.127 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.000 min
Lab File: VN081042.D
Acq: 15 Feb 2024 16:19

Tgt Ion: 50 Resp: 9418
Ion Ratio Lower Upper
50 100
52 41.7 25.0 37.4#

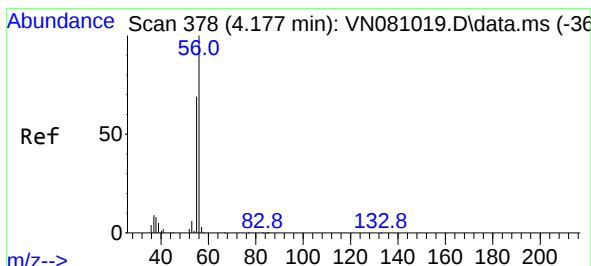
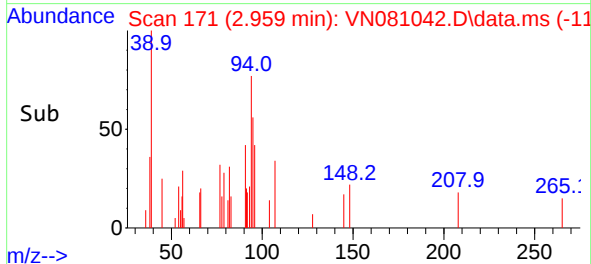
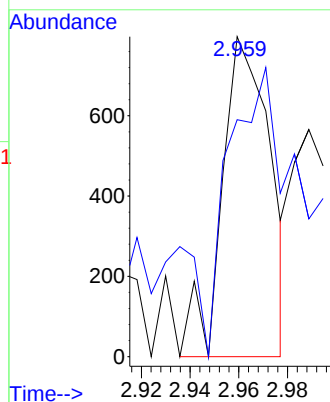
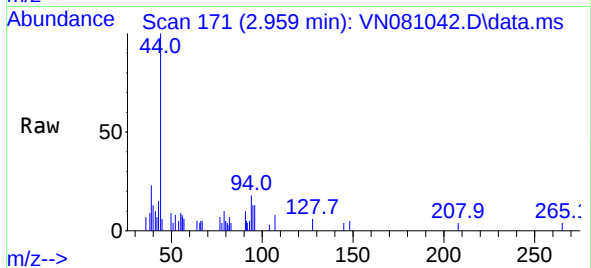




#5
Bromomethane
Concen: 0.349 ug/l
RT: 2.959 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN081042.D
Acq: 15 Feb 2024 16:19

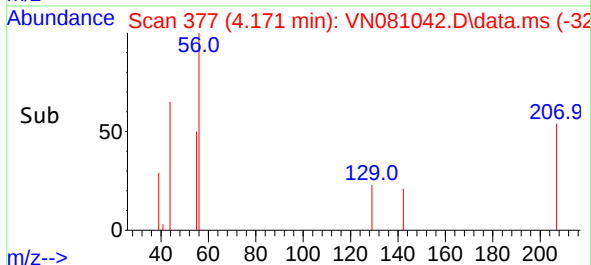
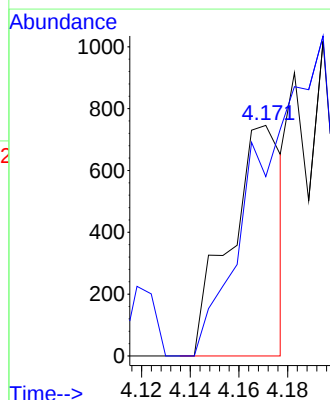
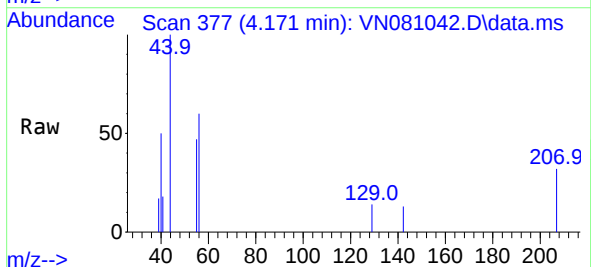
Instrument :
MSVOA_N
ClientSampleId :
IBLK

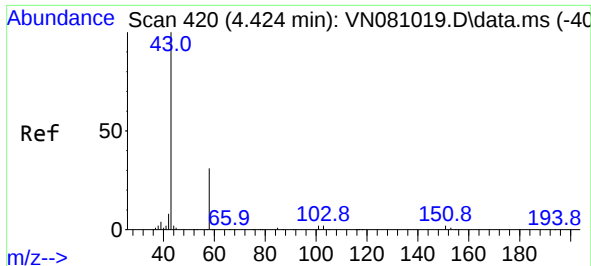
Tgt Ion: 94 Resp: 1094
Ion Ratio Lower Upper
94 100
96 39.6 69.2 103.8#



#13
Acrolein
Concen: Below Cal
RT: 4.171 min Scan# 377
Delta R.T. -0.006 min
Lab File: VN081042.D
Acq: 15 Feb 2024 16:19

Tgt Ion: 56 Resp: 1107
Ion Ratio Lower Upper
56 100
55 0.0 55.3 82.9#

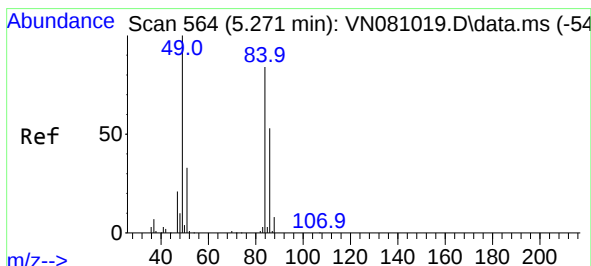
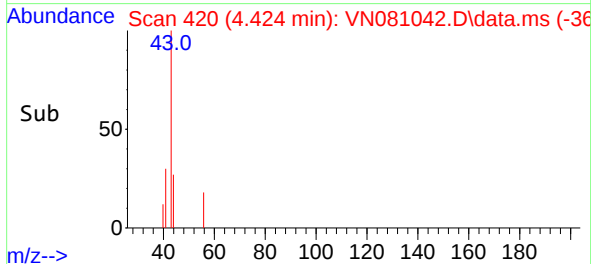
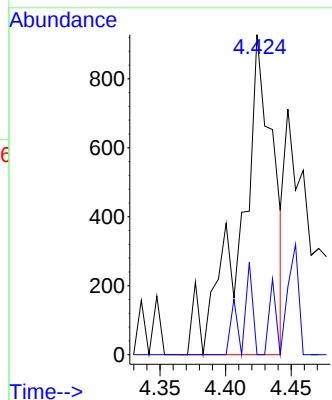
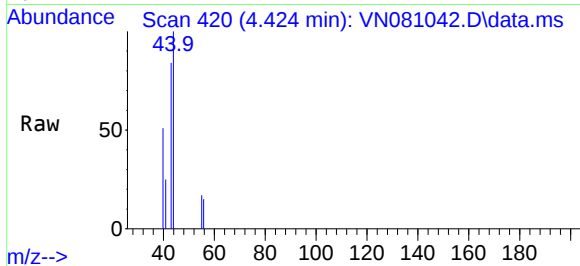




#16
Acetone
Concen: 0.739 ug/l
RT: 4.424 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN081042.D
Acq: 15 Feb 2024 16:19

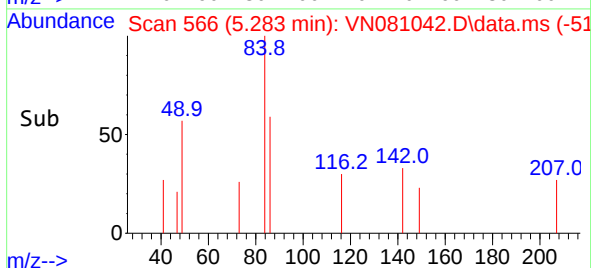
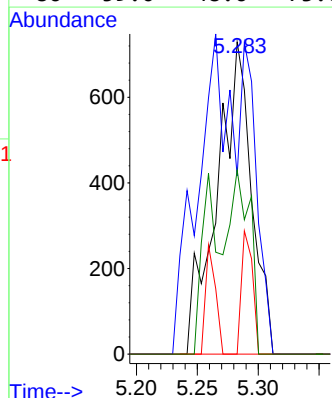
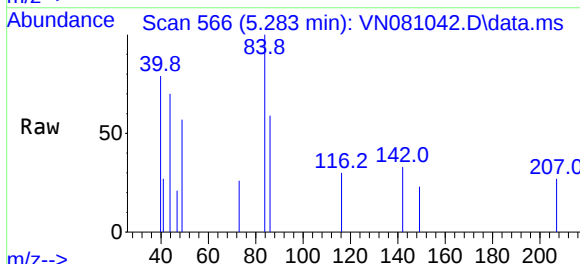
Instrument :
MSVOA_N
ClientSampleId :
IBLK

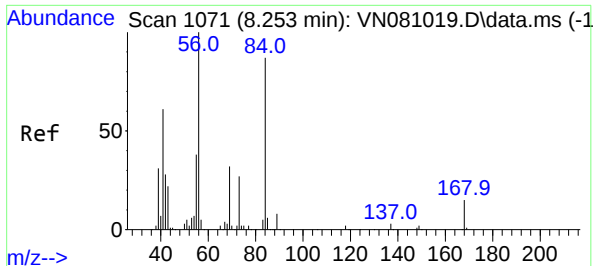
Tgt Ion: 43 Resp: 1640
Ion Ratio Lower Upper
43 100
58 0.0 24.8 37.2#



#20
Methylene Chloride
Concen: 0.250 ug/l
RT: 5.283 min Scan# 566
Delta R.T. 0.012 min
Lab File: VN081042.D
Acq: 15 Feb 2024 16:19

Tgt Ion: 84 Resp: 1445
Ion Ratio Lower Upper
84 100
49 57.2 108.1 162.1#
51 0.0 32.9 49.3#
86 59.0 48.6 73.0

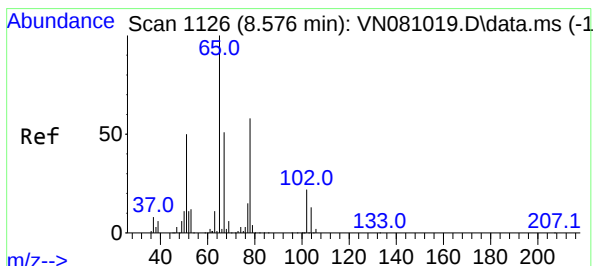
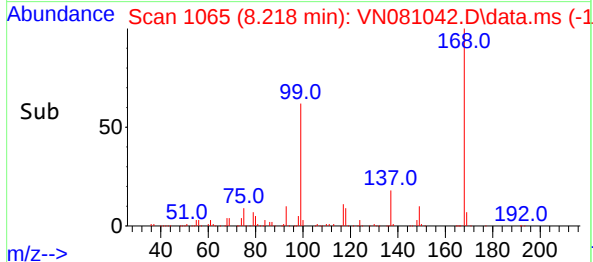
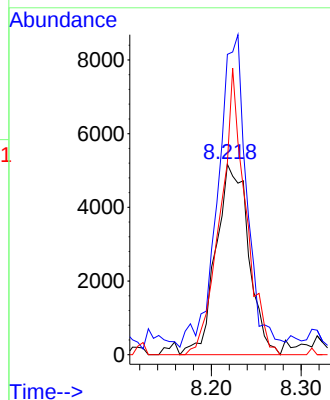
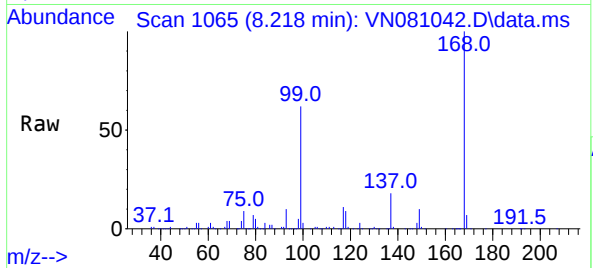




#31
Cyclohexane
Concen: 1.327 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.035 min
Lab File: VN081042.D
Acq: 15 Feb 2024 16:19

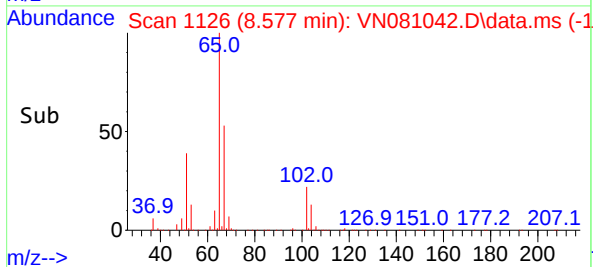
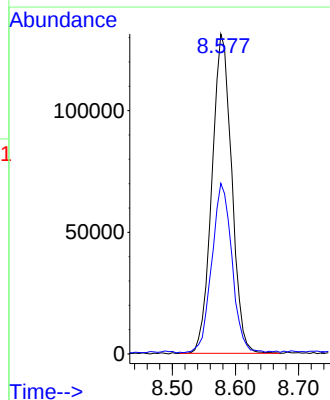
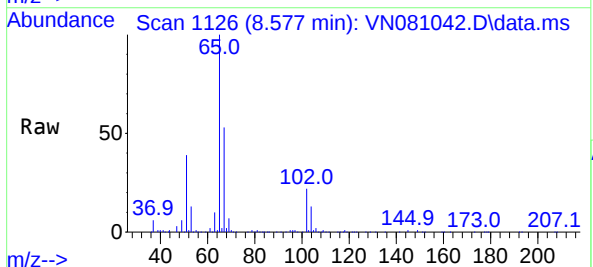
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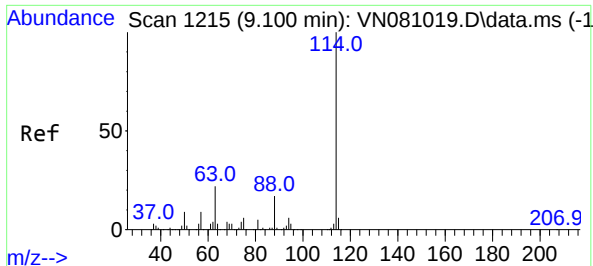
Tgt Ion: 56 Resp: 13062
Ion Ratio Lower Upper
56 100
69 153.8 20.1 30.1#
84 100.8 56.9 85.3#



#33
1,2-Dichloroethane-d4
Concen: 50.437 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN081042.D
Acq: 15 Feb 2024 16:19

Tgt Ion: 65 Resp: 285888
Ion Ratio Lower Upper
65 100
67 53.9 0.0 102.4



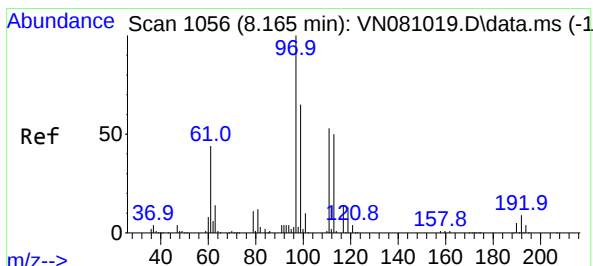
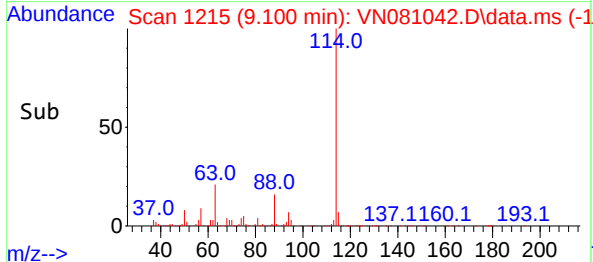
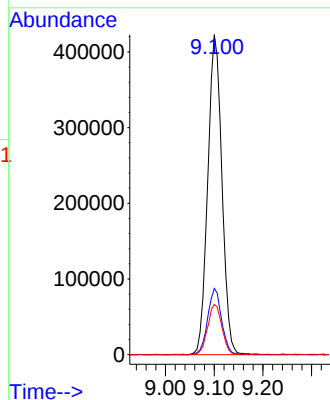
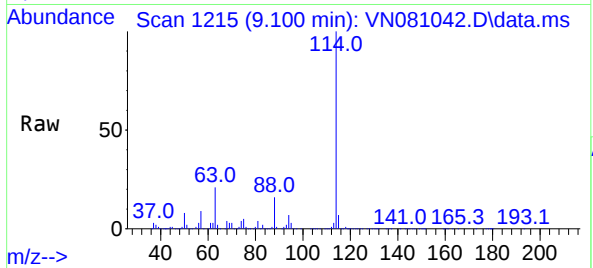


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN081042.D
Acq: 15 Feb 2024 16:19

Instrument :
MSVOA_N
ClientSampleId :
IBLK

Tgt Ion:114 Resp: 850894

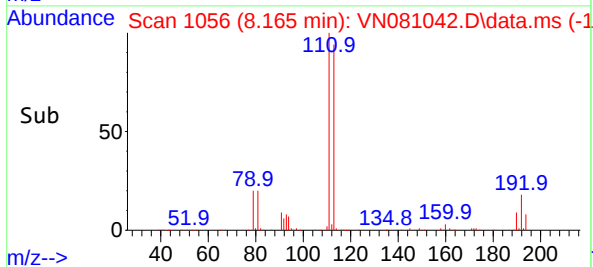
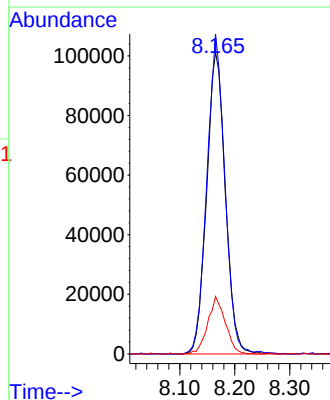
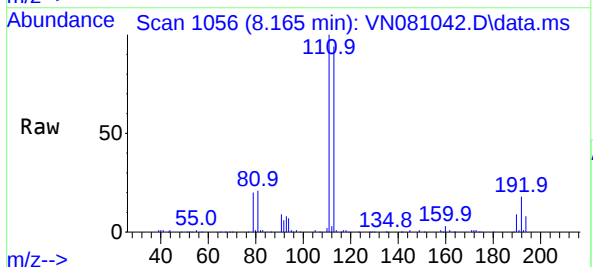
Ion	Ratio	Lower	Upper
114	100		
63	20.7	0.0	48.0
88	15.7	0.0	34.8

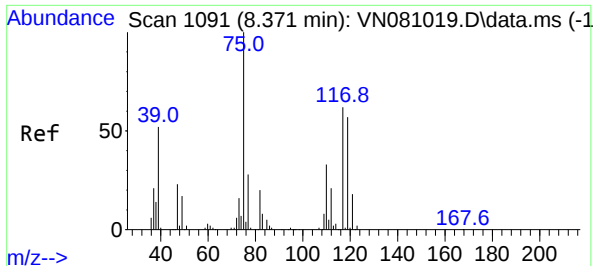


#35
Dibromofluoromethane
Concen: 48.998 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN081042.D
Acq: 15 Feb 2024 16:19

Tgt Ion:113 Resp: 239042

Ion	Ratio	Lower	Upper
113	100		
111	102.1	82.2	123.4
192	17.9	12.5	18.7





#36

1,1-Dichloropropene

Concen: 4.784 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.147 min

Lab File: VN081042.D

Acq: 15 Feb 2024 16:19

Instrument :

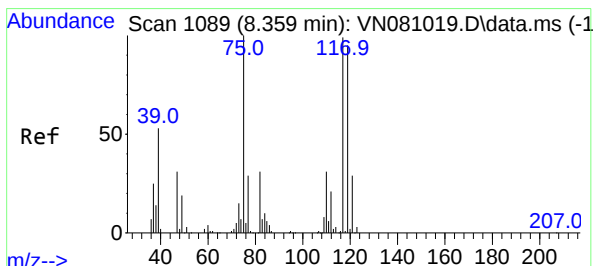
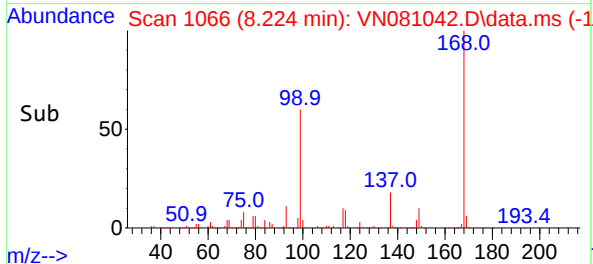
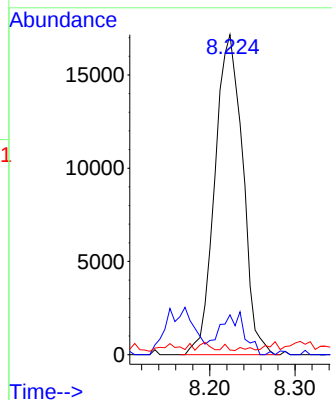
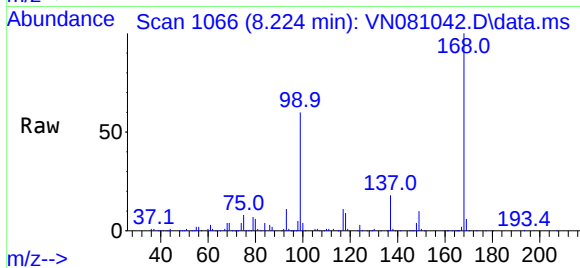
MSVOA_N

ClientSampleId :

IBLK

Tgt Ion: 75 Resp: 38944

Ion	Ratio	Lower	Upper
75	100		
110	11.7	16.0	48.0#
77	0.4	25.8	38.6#



#38

Carbon Tetrachloride

Concen: 8.305 ug/l

RT: 8.224 min Scan# 1066

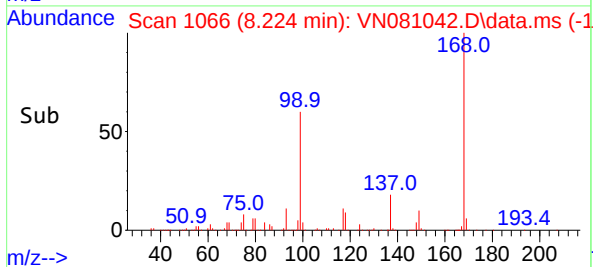
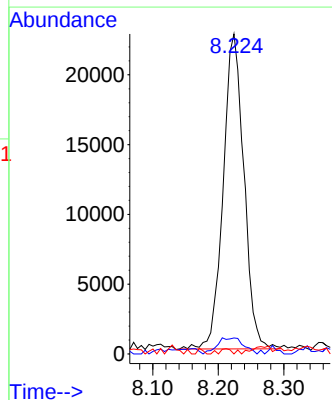
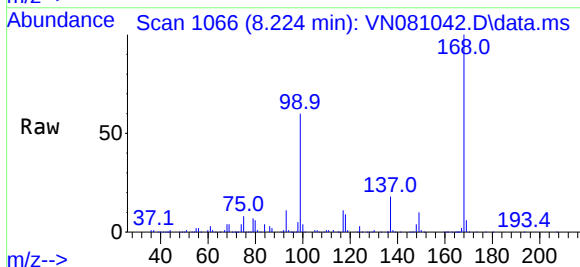
Delta R.T. -0.135 min

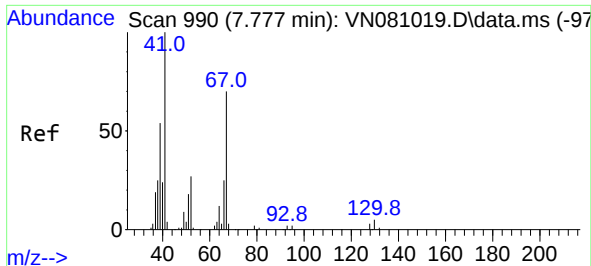
Lab File: VN081042.D

Acq: 15 Feb 2024 16:19

Tgt Ion: 117 Resp: 49481

Ion	Ratio	Lower	Upper
117	100		
119	4.0	73.4	110.2#
121	0.0	24.4	36.6#

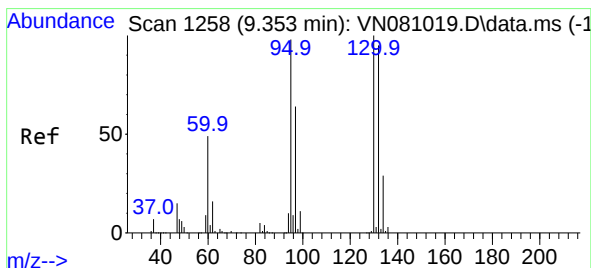
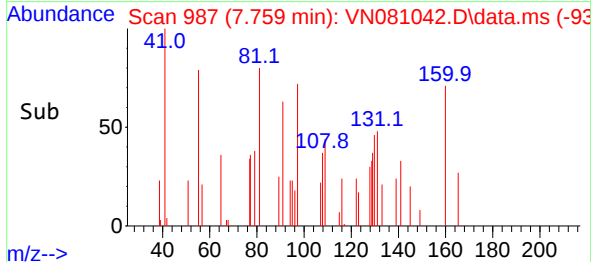
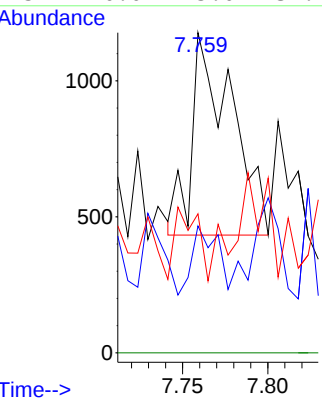
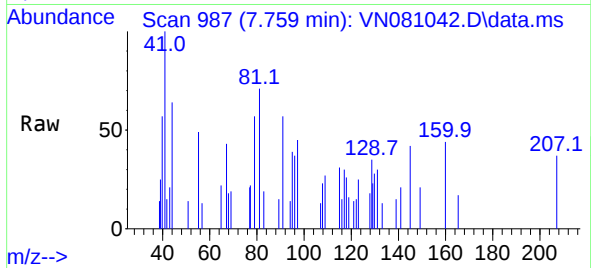




#41
Methacrylonitrile
Concen: 0.271 ug/l
RT: 7.759 min Scan# 91
Delta R.T. -0.018 min
Lab File: VN081042.D
Acq: 15 Feb 2024 16:19

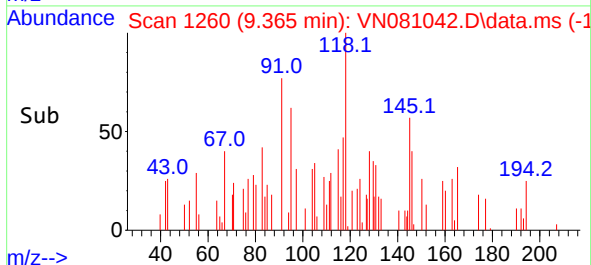
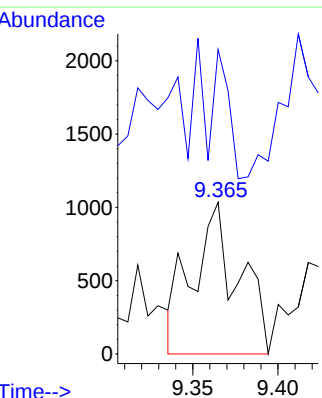
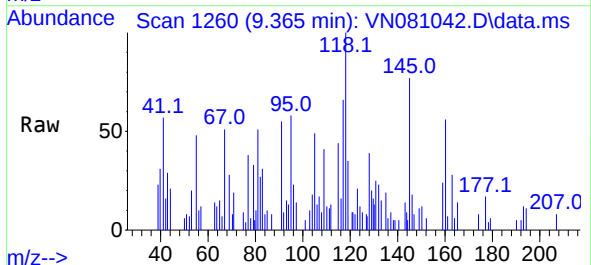
Instrument :
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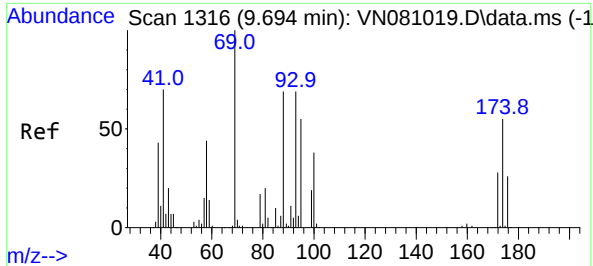
Tgt Ion: 41	Resp: 1223
Ion Ratio	Lower Upper
41 100	
39 29.3	48.4 72.6#
67 20.4	56.8 85.2#
52 0.0	25.0 37.4#



#44
Trichloroethene
Concen: 0.271 ug/l
RT: 9.365 min Scan# 1260
Delta R.T. 0.012 min
Lab File: VN081042.D
Acq: 15 Feb 2024 16:19

Tgt Ion:130	Resp:	1930	
Ion	Ratio	Lower	Upper
130	100		
95	95.0	0.0	210.4

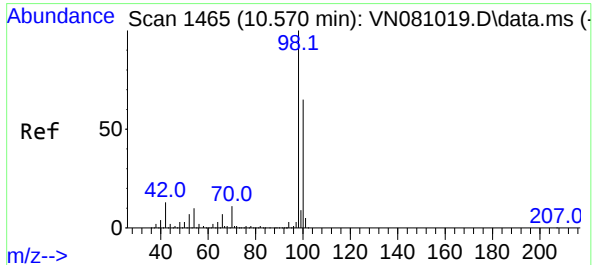
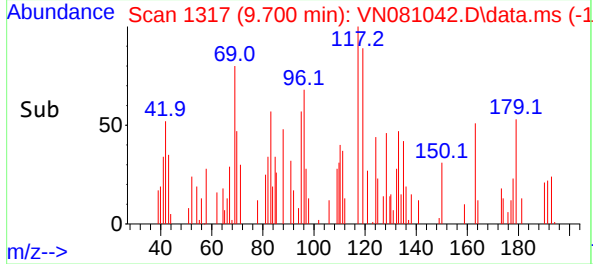
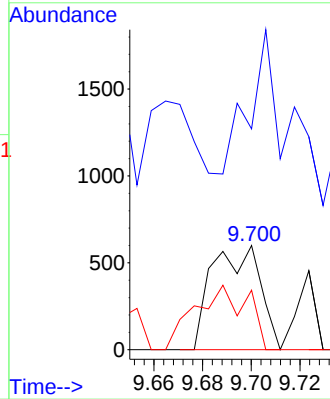
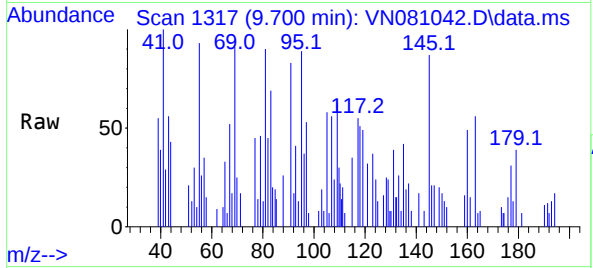




#49
1,4-Dioxane
Concen: Below Cal
RT: 9.700 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN081042.D
Acq: 15 Feb 2024 16:19

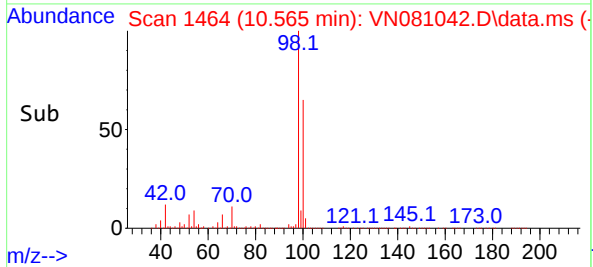
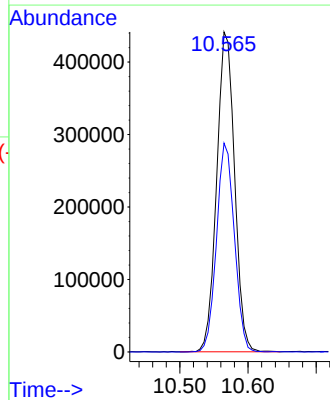
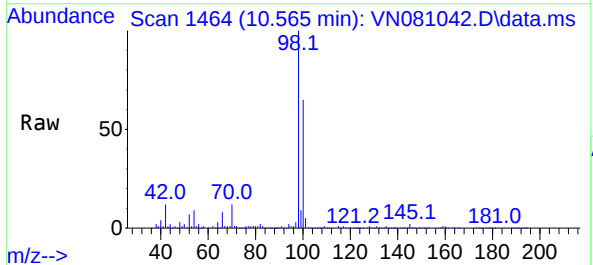
Instrument :
MSVOA_N
ClientSampleId :
IBLK

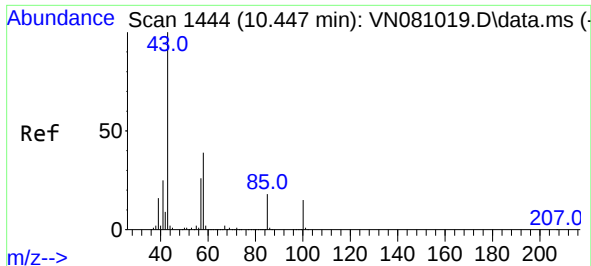
Tgt Ion: 88 Resp: 825
Ion Ratio Lower Upper
88 100
43 140.0 30.1 45.1#
58 67.3 63.9 95.9



#50
Toluene-d8
Concen: 46.865 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN081042.D
Acq: 15 Feb 2024 16:19

Tgt Ion: 98 Resp: 806340
Ion Ratio Lower Upper
98 100
100 65.2 51.4 77.0

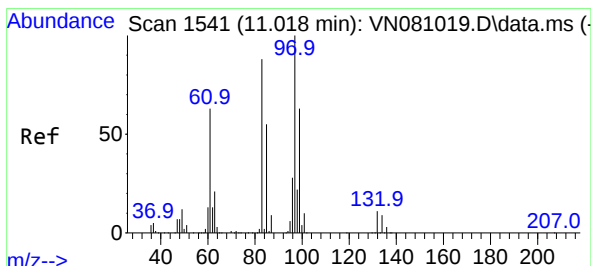
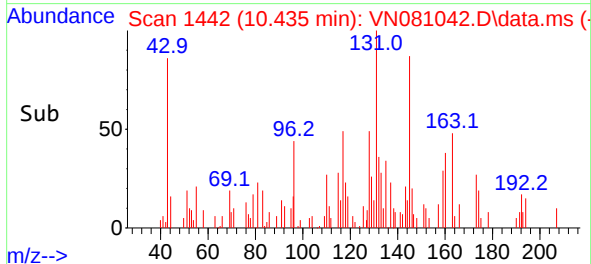
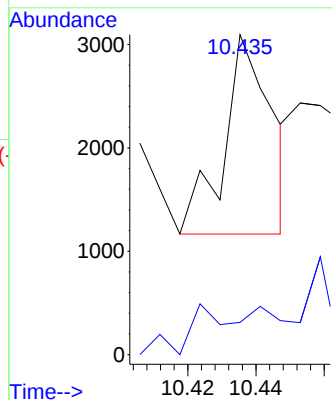
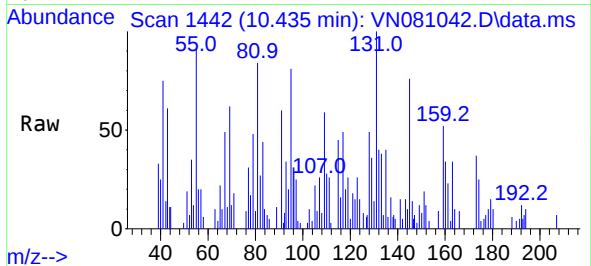




#51
4-Methyl-2-Pentanone
Concen: 0.242 ug/l
RT: 10.435 min Scan# 1442
Delta R.T. -0.012 min
Lab File: VN081042.D
Acq: 15 Feb 2024 16:19

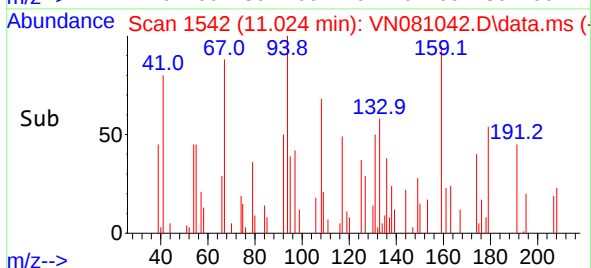
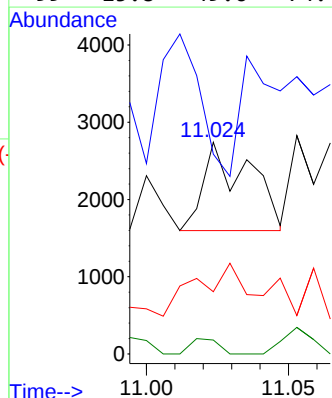
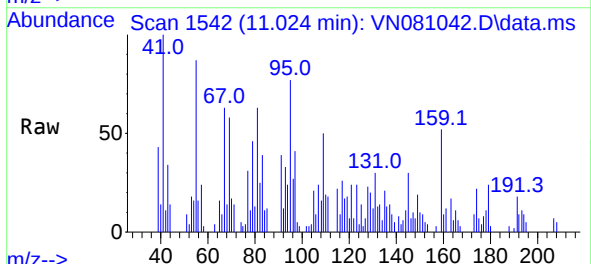
Instrument :
MSVOA_N
ClientSampleId :
IBLK

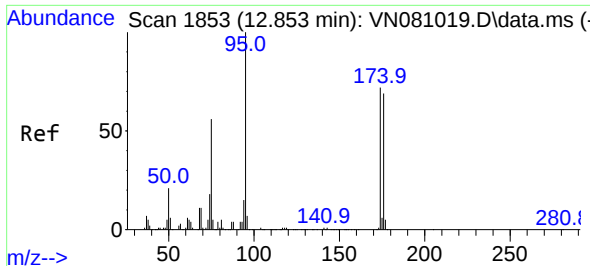
Tgt Ion: 43 Resp: 1886
Ion Ratio Lower Upper
43 100
58 24.2 29.4 44.0#



#55
1,1,2-Trichloroethane
Concen: 0.226 ug/l
RT: 11.024 min Scan# 1542
Delta R.T. 0.006 min
Lab File: VN081042.D
Acq: 15 Feb 2024 16:19

Tgt Ion: 97 Resp: 1280
Ion Ratio Lower Upper
97 100
83 0.0 72.9 109.3#
85 0.0 50.2 75.2#
99 15.8 49.6 74.4#

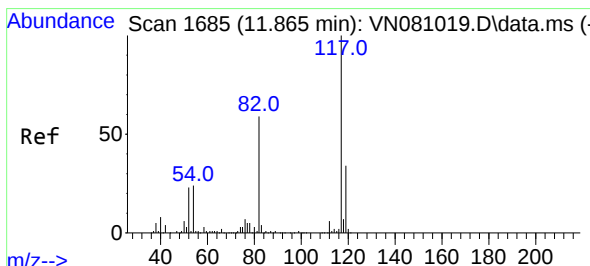
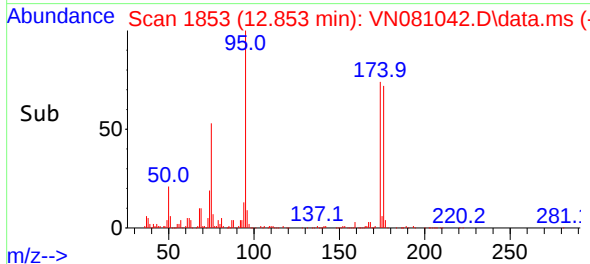
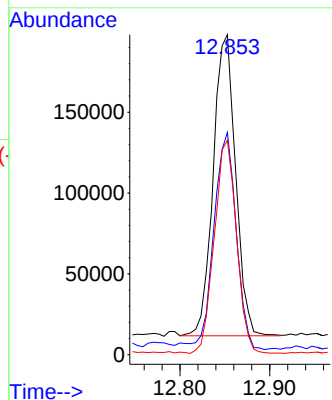
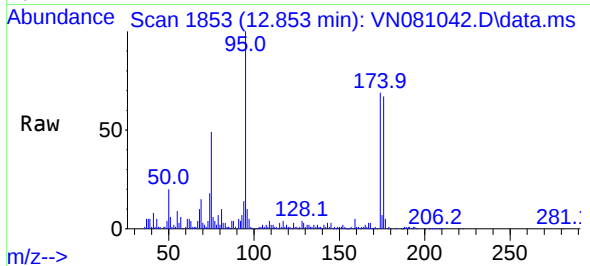




#62
4-Bromofluorobenzene
Concen: 55.163 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN081042.D
Acq: 15 Feb 2024 16:19

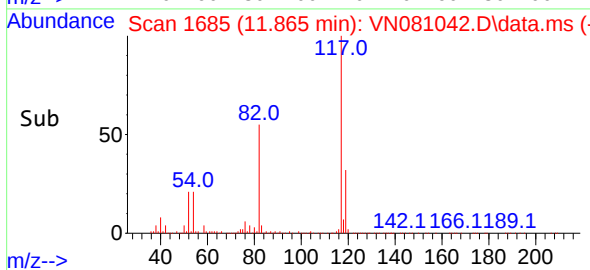
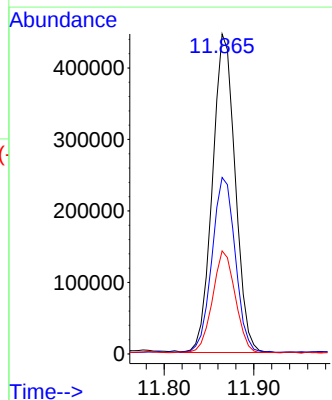
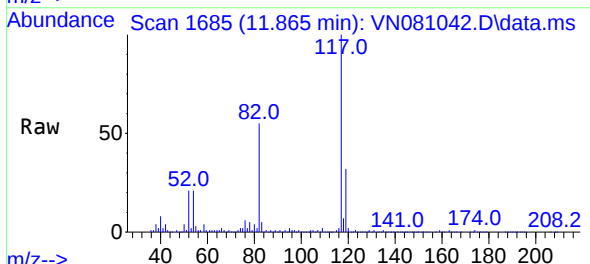
Instrument :
MSVOA_N
ClientSampleId :
IBLK

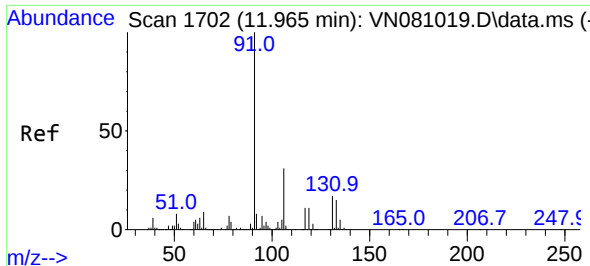
Tgt Ion: 95 Resp: 322794
Ion Ratio Lower Upper
95 100
174 71.8 0.0 120.4
176 70.1 0.0 121.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN081042.D
Acq: 15 Feb 2024 16:19

Tgt Ion: 117 Resp: 783423
Ion Ratio Lower Upper
117 100
82 54.9 52.7 79.1
119 32.0 25.3 37.9

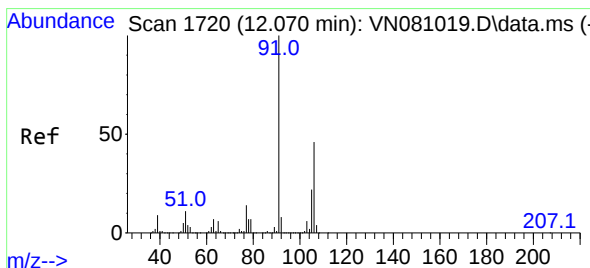
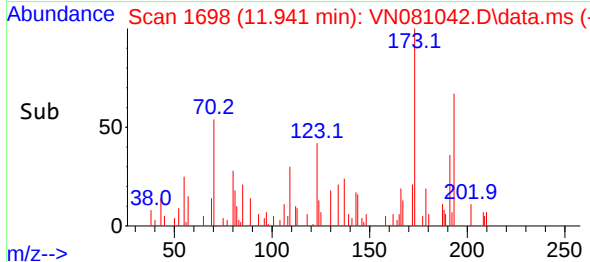
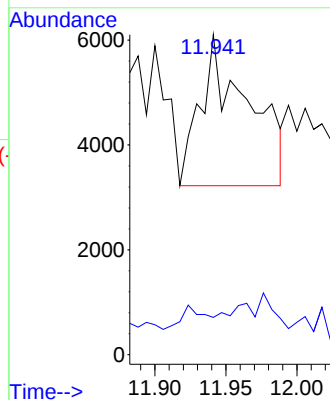
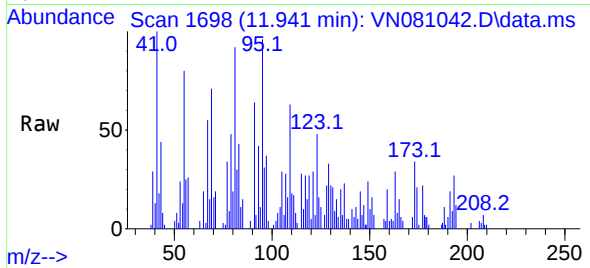




#67
Ethyl Benzene
Concen: 0.217 ug/l
RT: 11.941 min Scan# 1190
Delta R.T. -0.023 min
Lab File: VN081042.D
Acq: 15 Feb 2024 16:19

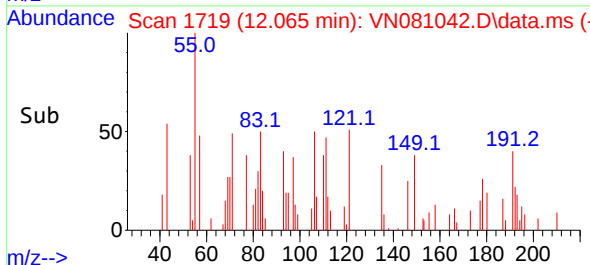
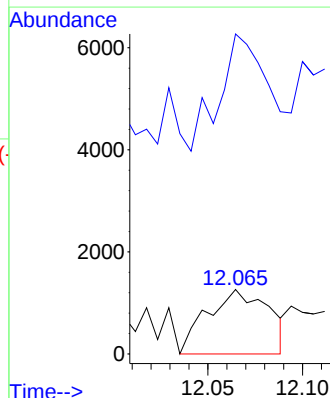
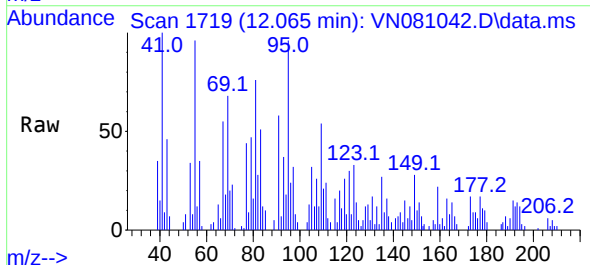
Instrument :
MSVOA_N
ClientSampleId :
IBLK

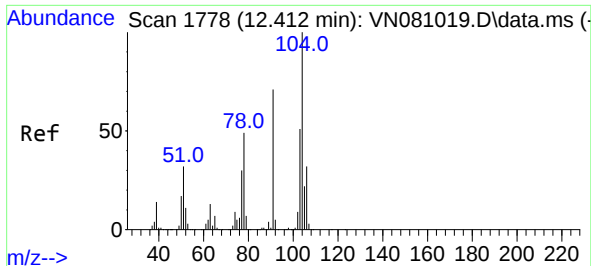
Tgt Ion: 91 Resp: 6732
Ion Ratio Lower Upper
91 100
106 2.8 23.8 35.6#



#68
m/p-Xylenes
Concen: 0.250 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.006 min
Lab File: VN081042.D
Acq: 15 Feb 2024 16:19

Tgt Ion:106 Resp: 2855
Ion Ratio Lower Upper
106 100
91 145.3 169.0 253.6#

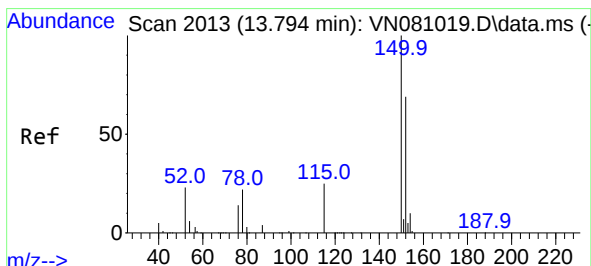
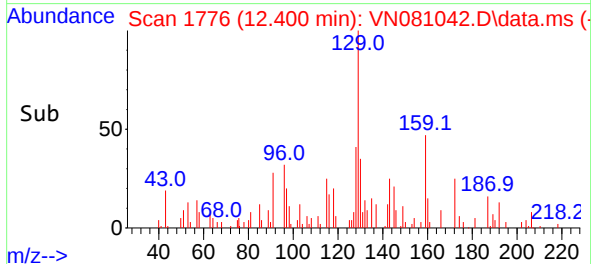
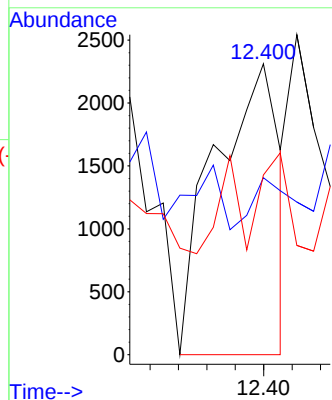
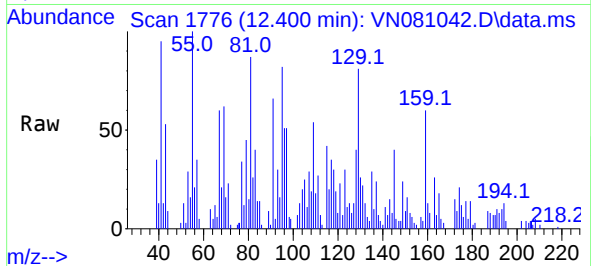




#70
Styrene
Concen: 0.209 ug/l
RT: 12.400 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN081042.D
Acq: 15 Feb 2024 16:19

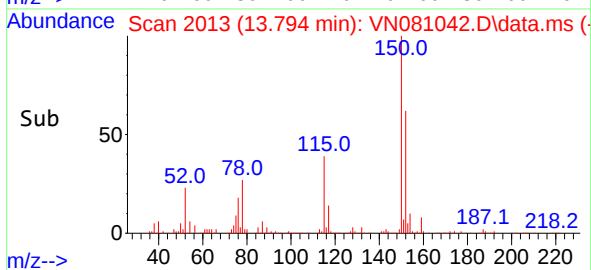
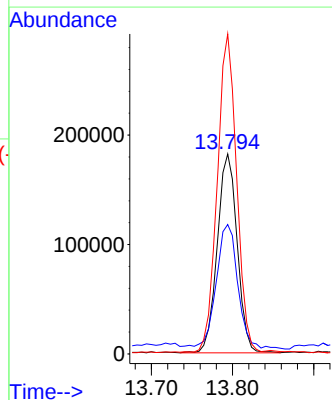
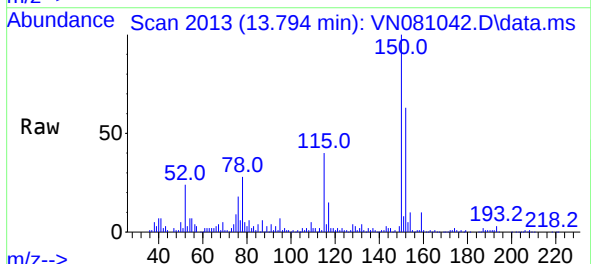
Instrument :
MSVOA_N
ClientSampleId :
IBLK

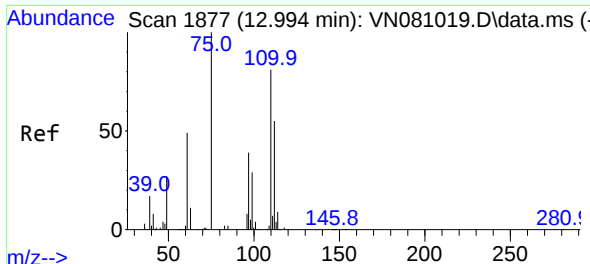
Tgt Ion:104 Resp: 3685
Ion Ratio Lower Upper
104 100
78 11.5 43.8 65.8#
103 13.7 44.2 66.2#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.000 min
Lab File: VN081042.D
Acq: 15 Feb 2024 16:19

Tgt Ion:152 Resp: 309677
Ion Ratio Lower Upper
152 100
115 68.4 32.3 96.8
150 156.2 0.0 339.8

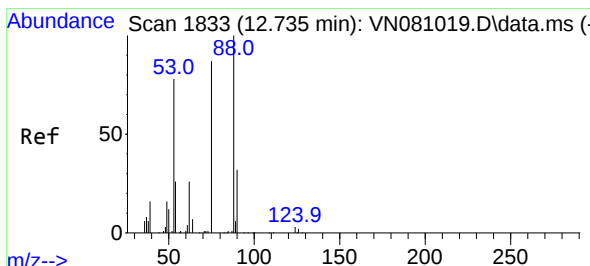
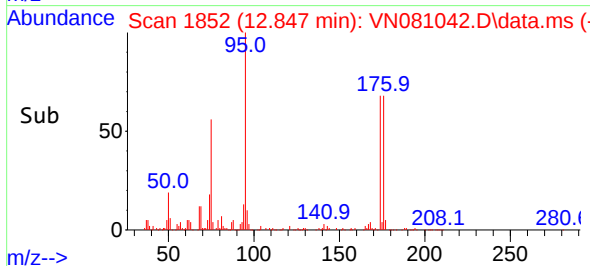
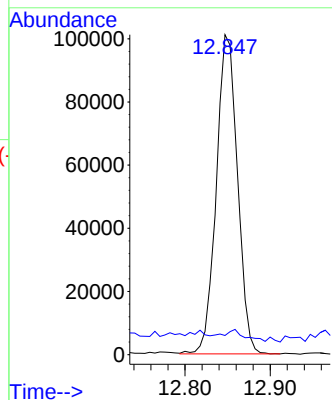
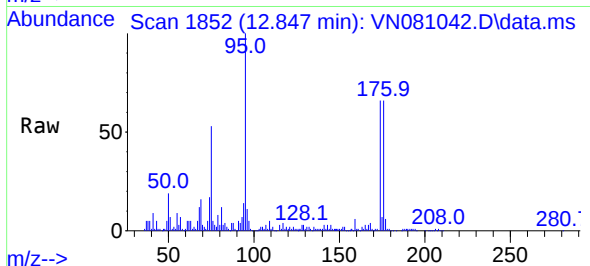




#76
1,2,3-Trichloropropane
Concen: 25.477 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN081042.D
Acq: 15 Feb 2024 16:19

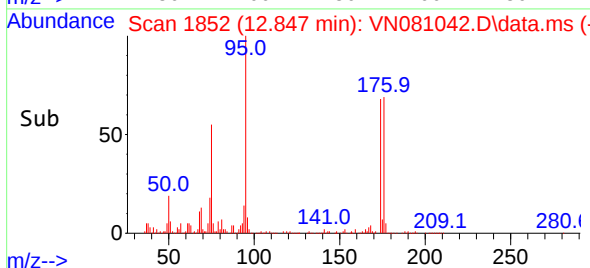
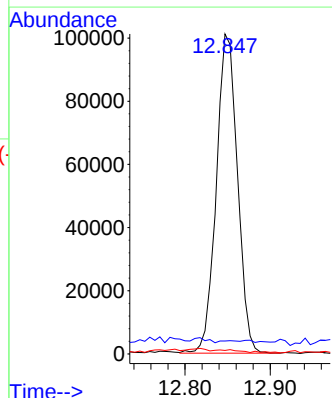
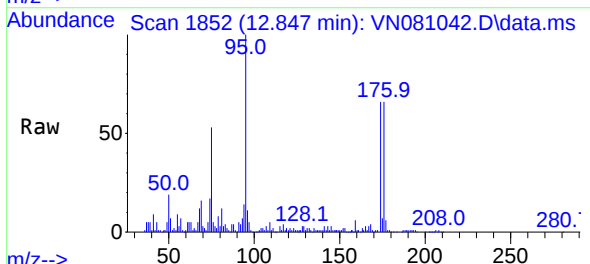
Instrument :
MSVOA_N
ClientSampleId :
IBLK

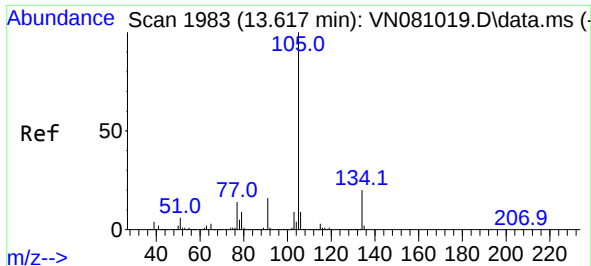
Tgt Ion: 75 Resp: 174327
Ion Ratio Lower Upper
75 100
77 2.6 91.0 272.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 59.306 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN081042.D
Acq: 15 Feb 2024 16:19

Tgt Ion: 75 Resp: 174327
Ion Ratio Lower Upper
75 100
53 0.1 71.4 107.2#
89 0.0 33.4 50.0#

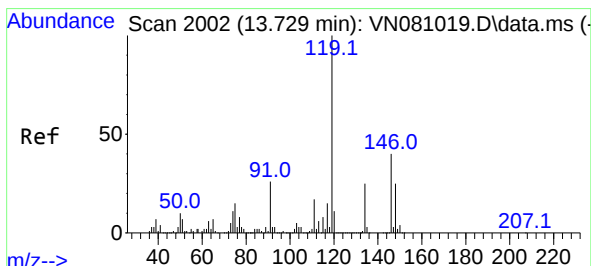
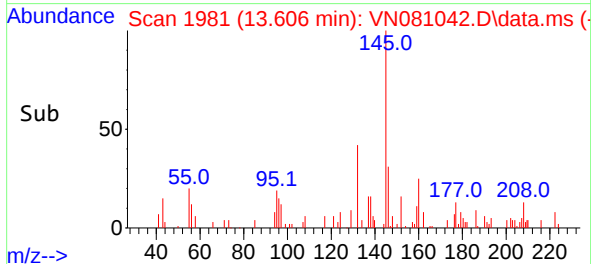
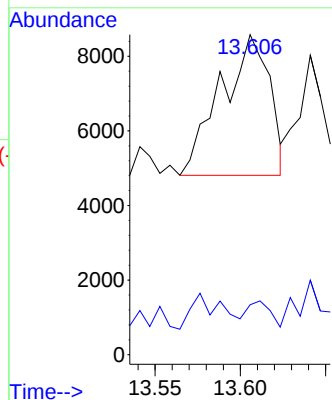
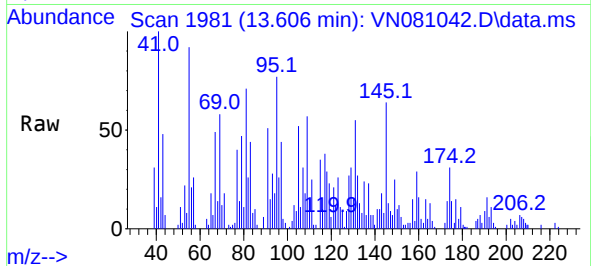




#85
 sec-Butylbenzene
 Concen: 0.263 ug/l
 RT: 13.606 min Scan# 1983
 Delta R.T. -0.012 min
 Lab File: VN081042.D
 Acq: 15 Feb 2024 16:19

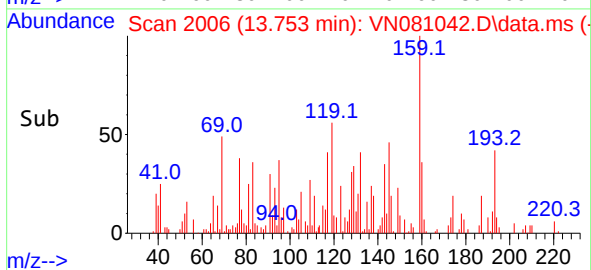
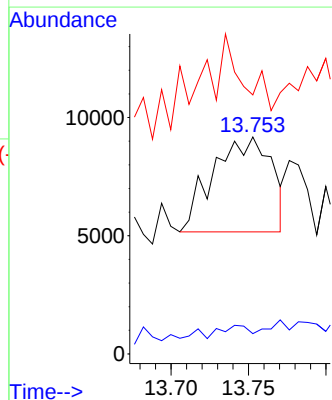
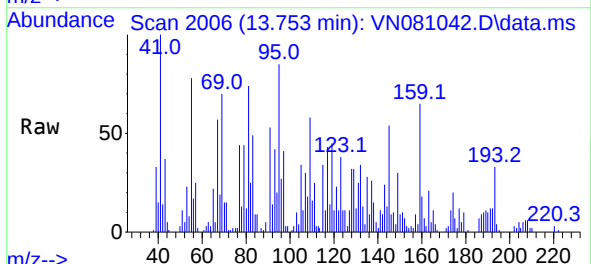
Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

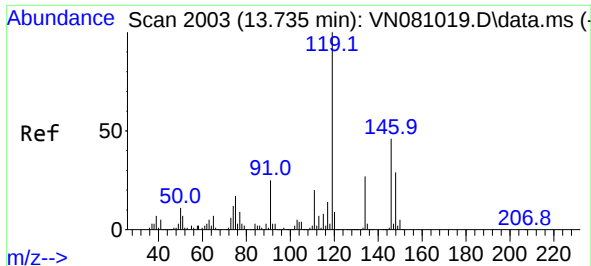
Tgt Ion:105 Resp: 7510
 Ion Ratio Lower Upper
 105 100
 134 8.7 8.6 25.8



#86
 p-Isopropyltoluene
 Concen: 0.459 ug/l
 RT: 13.753 min Scan# 2006
 Delta R.T. 0.024 min
 Lab File: VN081042.D
 Acq: 15 Feb 2024 16:19

Tgt Ion:119 Resp: 10518
 Ion Ratio Lower Upper
 119 100
 134 4.3 12.4 37.2#
 91 0.0 13.5 40.4#

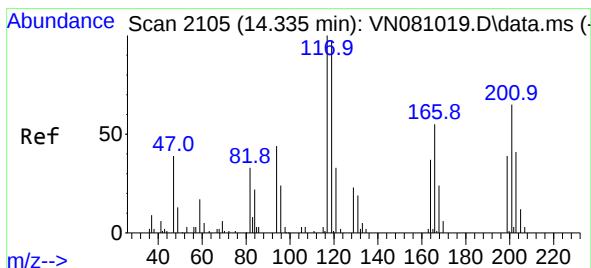
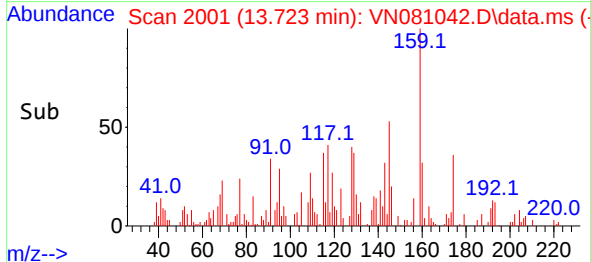
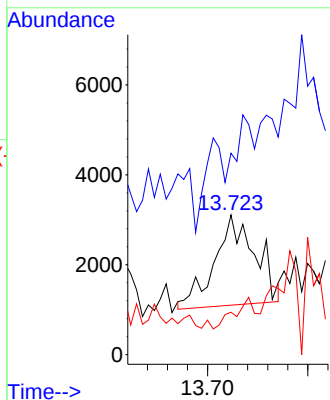
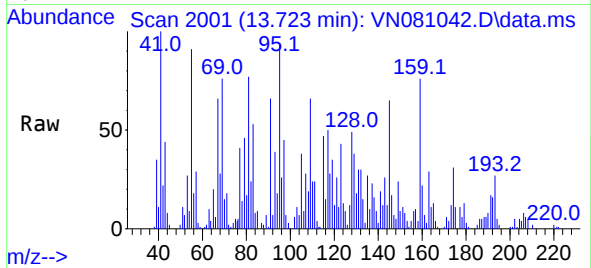




#87
1,3-Dichlorobenzene
Concen: 0.518 ug/l
RT: 13.723 min Scan# 2003
Delta R.T. -0.012 min
Lab File: VN081042.D
Acq: 15 Feb 2024 16:19

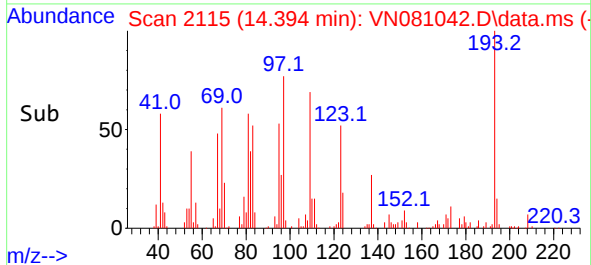
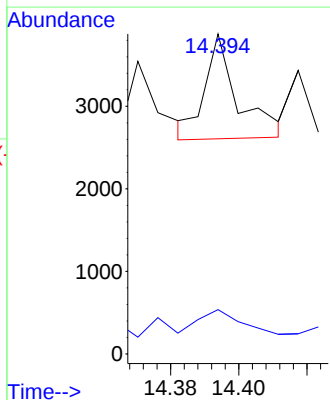
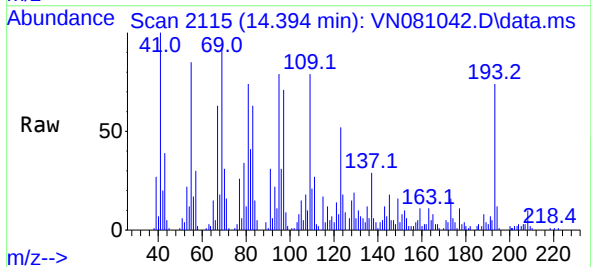
Instrument :
MSVOA_N
ClientSampleId :
IBLK

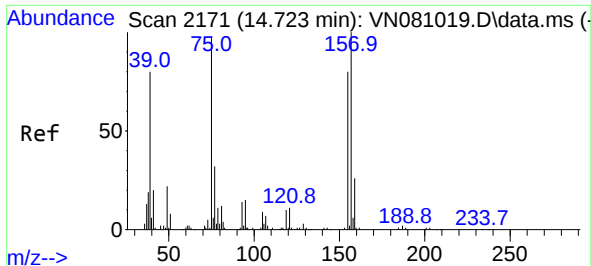
Tgt Ion:146 Resp: 5581
Ion Ratio Lower Upper
146 100
111 41.1 23.9 71.7
148 19.5 32.6 97.7#



#90
Hexachloroethane
Concen: Below Cal
RT: 14.394 min Scan# 2115
Delta R.T. 0.059 min
Lab File: VN081042.D
Acq: 15 Feb 2024 16:19

Tgt Ion:117 Resp: 851
Ion Ratio Lower Upper
117 100
201 48.2 30.0 90.0

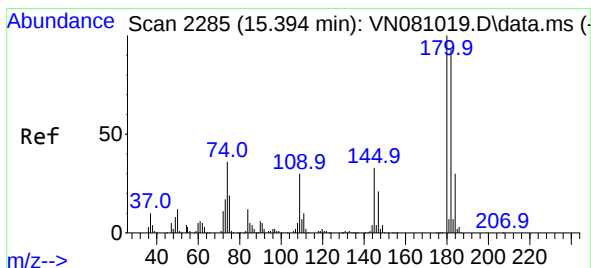
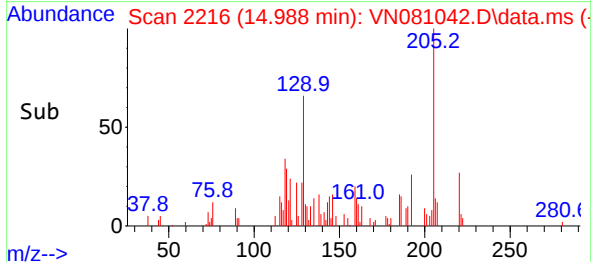
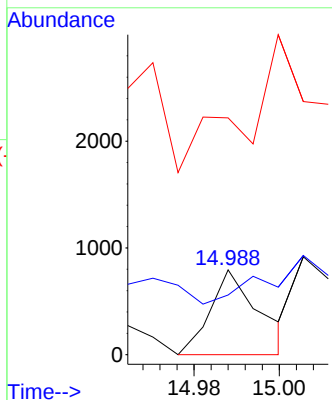
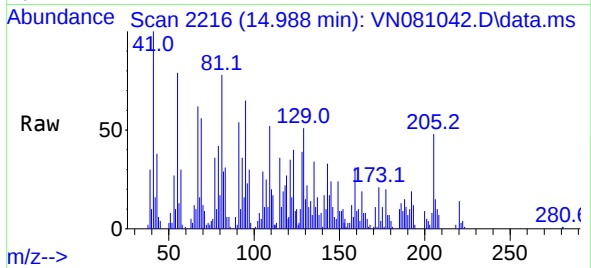




#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 14.988 min Scan# 2171
Delta R.T. 0.265 min
Lab File: VN081042.D
Acq: 15 Feb 2024 16:19

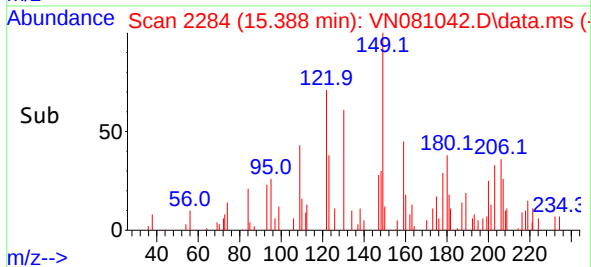
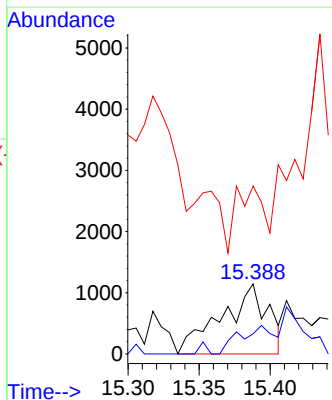
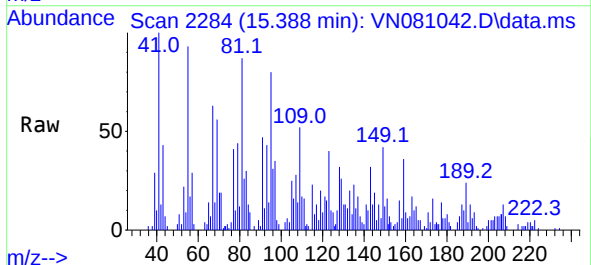
Instrument :
MSVOA_N
ClientSampleId :
IBLK

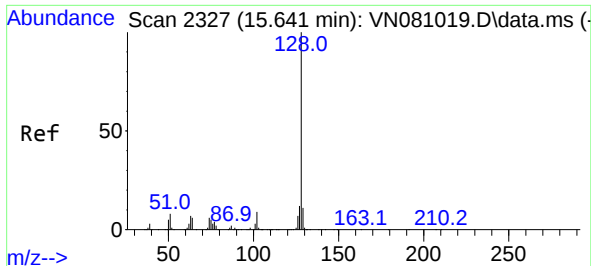
Tgt Ion: 75 Resp: 632
Ion Ratio Lower Upper
75 100
155 48.9 31.8 95.4
157 101.6 41.1 123.4



#93
1,2,4-Trichlorobenzene
Concen: 0.416 ug/l
RT: 15.388 min Scan# 2284
Delta R.T. -0.006 min
Lab File: VN081042.D
Acq: 15 Feb 2024 16:19

Tgt Ion: 180 Resp: 2602
Ion Ratio Lower Upper
180 100
182 0.0 46.6 139.7#
145 56.0 16.8 50.3#





#95

Naphthalene

Concen: 0.597 ug/l

RT: 15.635 min Scan# 21

Delta R.T. -0.006 min

Lab File: VN081042.D

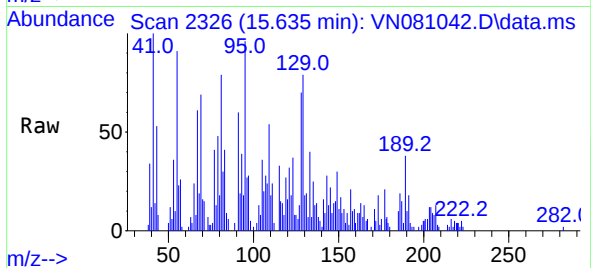
Acq: 15 Feb 2024 16:19

Instrument :

MSVOA_N

ClientSampleId :

IBLK



Tgt Ion:128 Resp: 13298

Ion Ratio Lower Upper

128 100

127 8.9 10.0 15.0#

129 99.2 8.7 13.1#

