

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050823\
 Data File : VN077617.D
 Acq On : 08 May 2023 15:08
 Operator : JC\MD
 Sample : VN0508WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0508WBL01

Quant Time: May 09 06:02:38 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N050823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 09 05:58:09 2023
 Response via : Initial Calibration

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

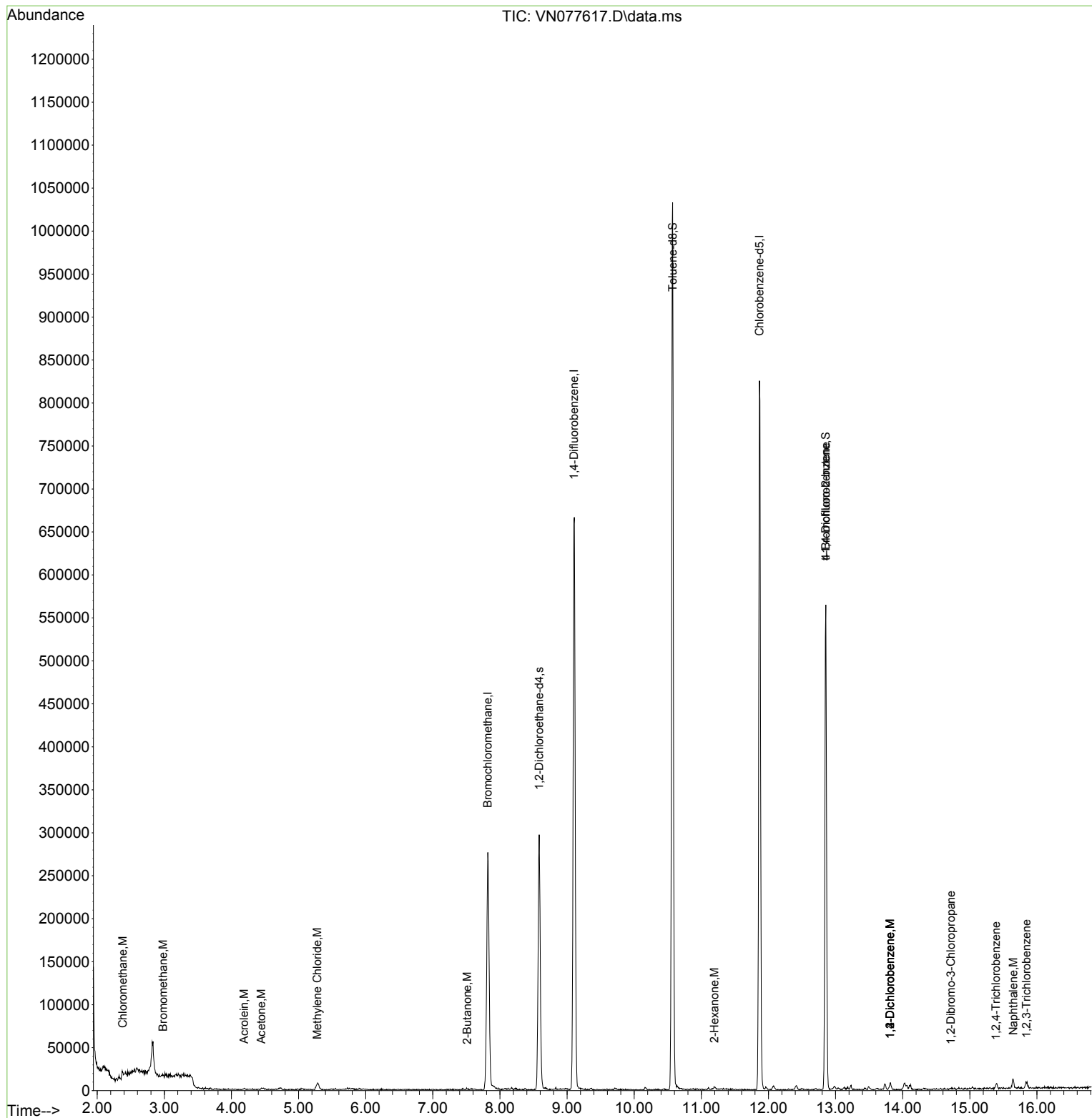
Internal Standards						
1) Bromochloromethane	7.819	128	107126	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.101	114	635368	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	519936	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.584	65	237421	30.818	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 102.733%	
60) 4-Bromofluorobenzene	12.854	95	207503	25.099	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 83.667%	
63) Toluene-d8	10.572	98	755099	31.444	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 104.800%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.378	50	2676	0.501	ug/l #	87
5) Bromomethane	2.978	94	1154	0.210	ug/l	98
13) Acrolein	4.190	56	847	1.002	ug/l	88
15) Acetone	4.443	58	415	0.652	ug/l #	1
18) Methylene Chloride	5.278	84	4880	0.703	ug/l #	33
30) 2-Butanone	7.513	43	859	0.352	ug/l #	67
59) 2-Hexanone	11.195	43	2161	0.625	ug/l #	73
77) t-1,4-Dichloro-2-butene	12.854	75	106990	42.849	ug/l #	12
83) 1,3-Dichlorobenzene	13.813	146	3529	0.283	ug/l	86
84) 1,4-Dichlorobenzene	13.813	146	3529	0.289	ug/l	90
87) 1,2-Dichlorobenzene	13.813	146	3529	0.291	ug/l	87
88) 1,2-Dibromo-3-Chloropr...	14.719	75	486	0.310	ug/l #	19
89) 1,2,4-Trichlorobenzene	15.389	180	2229	0.534	ug/l #	88
91) Naphthalene	15.648	128	9538	0.669	ug/l #	87
92) 1,2,3-Trichlorobenzene	15.842	180	3701	0.963	ug/l	33

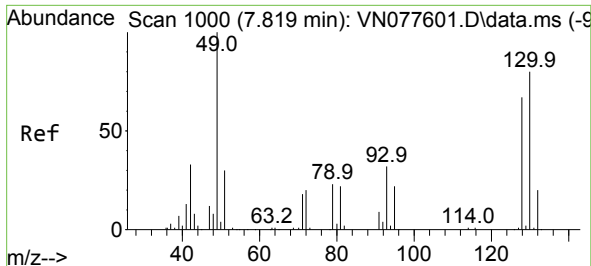
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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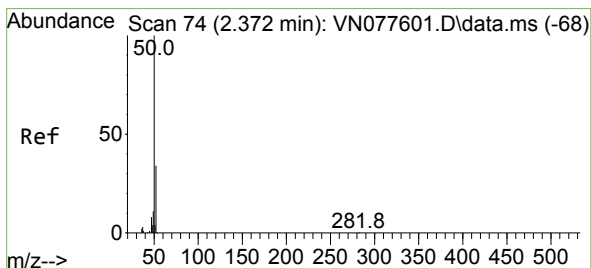
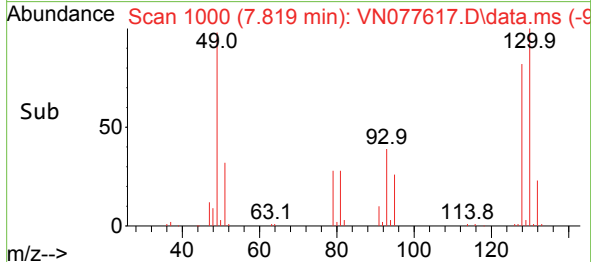
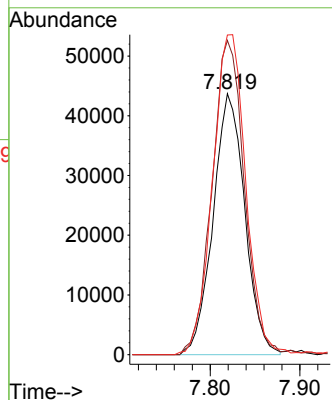
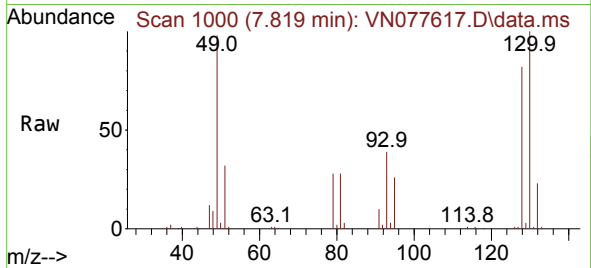




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.819 min Scan# 10
Delta R.T. 0.000 min
Lab File: VN077617.D
Acq: 08 May 2023 15:08

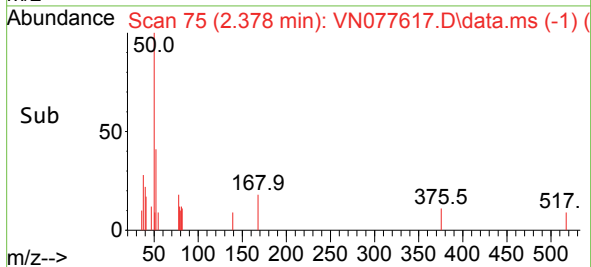
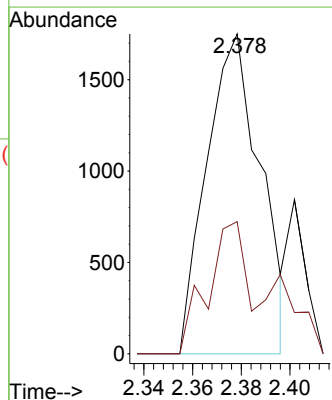
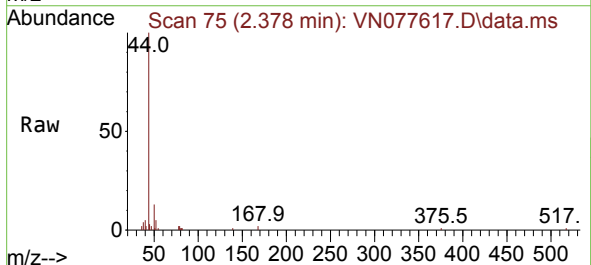
Instrument :
MSVOA_N
ClientSampleId :
VN0508WBL01

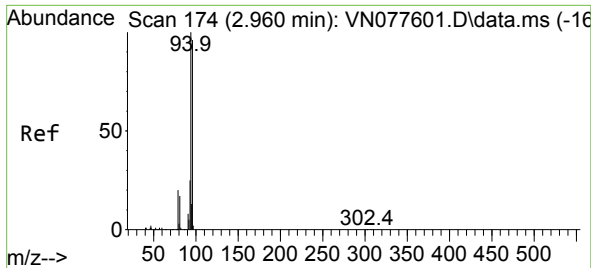
Tgt Ion:128 Resp: 107126
Ion Ratio Lower Upper
128 100
49 122.9 0.0 369.8
130 128.0 0.0 317.8



#3
Chloromethane
Concen: 0.501 ug/l
RT: 2.378 min Scan# 75
Delta R.T. 0.006 min
Lab File: VN077617.D
Acq: 08 May 2023 15:08

Tgt Ion: 50 Resp: 2676
Ion Ratio Lower Upper
50 100
52 41.3 27.3 40.9#

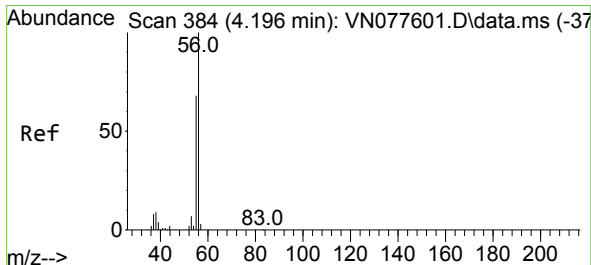
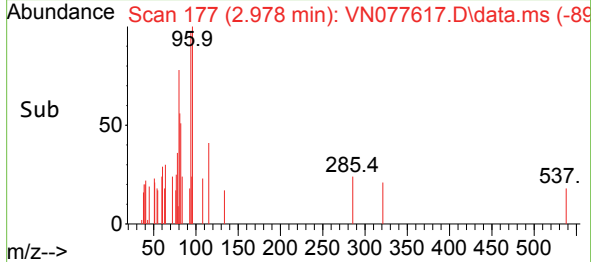
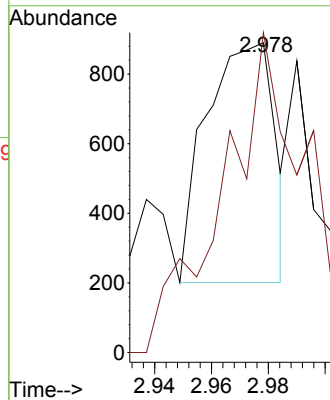
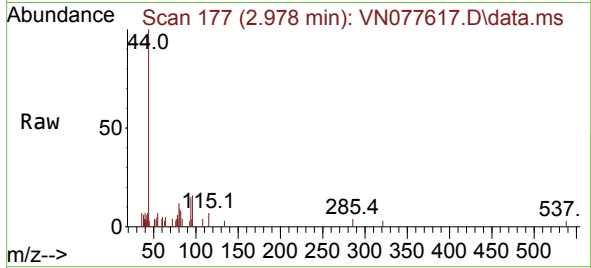




#5
Bromomethane
Concen: 0.210 ug/l
RT: 2.978 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN077617.D
Acq: 08 May 2023 15:08

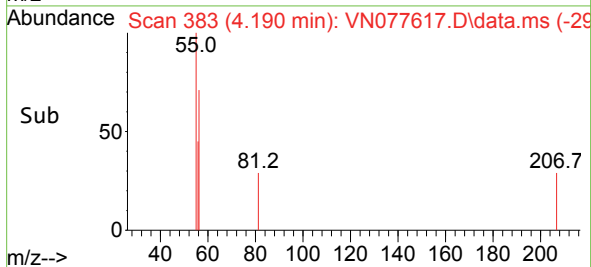
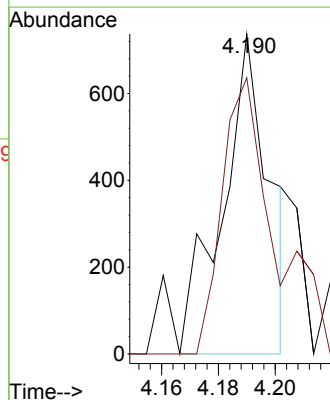
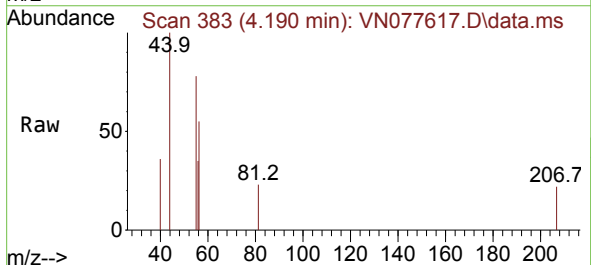
Instrument :
MSVOA_N
ClientSampleId :
VN0508WBL01

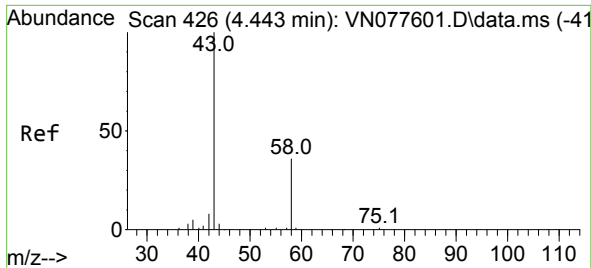
Tgt Ion: 94 Resp: 1154
Ion Ratio Lower Upper
94 100
96 94.2 76.7 115.1



#13
Acrolein
Concen: 1.002 ug/l
RT: 4.190 min Scan# 383
Delta R.T. -0.006 min
Lab File: VN077617.D
Acq: 08 May 2023 15:08

Tgt Ion: 56 Resp: 847
Ion Ratio Lower Upper
56 100
55 78.3 54.8 82.2





#15

Acetone

Concen: 0.652 ug/l

RT: 4.443 min Scan# 415

Delta R.T. -0.000 min

Lab File: VN077617.D

Acq: 08 May 2023 15:08

Instrument :

MSVOA_N

ClientSampleId :

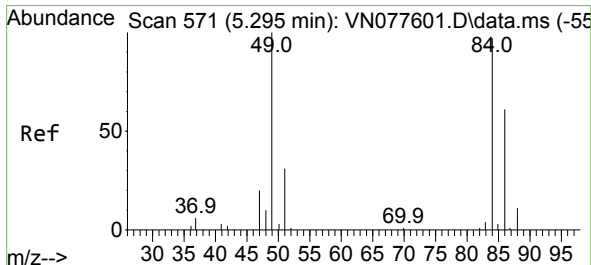
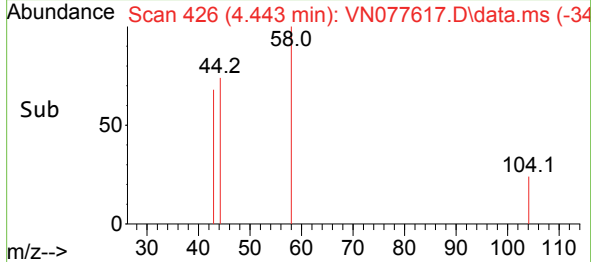
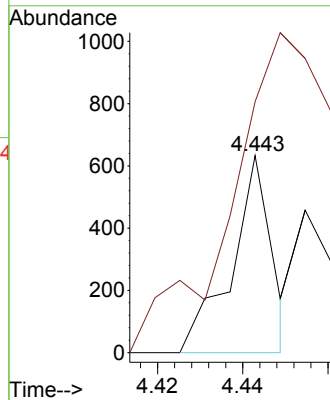
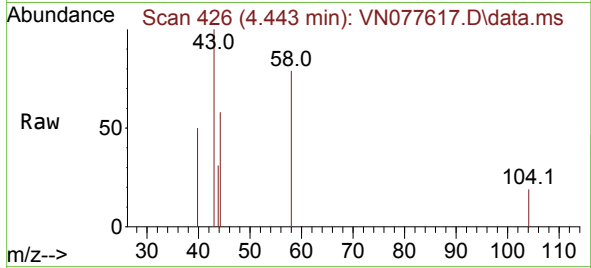
VN0508WBL01

Tgt Ion: 58 Resp: 415

Ion Ratio Lower Upper

58 100

43 90.7 223.2 334.8#



#18

Methylene Chloride

Concen: 0.703 ug/l

RT: 5.278 min Scan# 568

Delta R.T. -0.017 min

Lab File: VN077617.D

Acq: 08 May 2023 15:08

Tgt Ion: 84 Resp: 4880

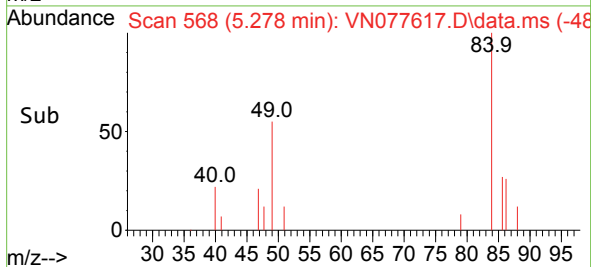
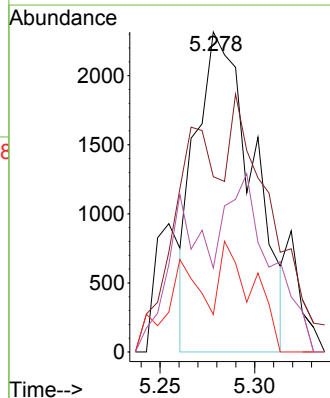
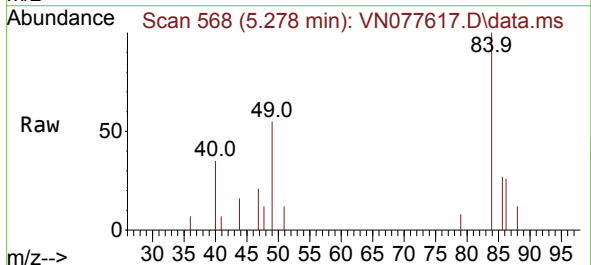
Ion Ratio Lower Upper

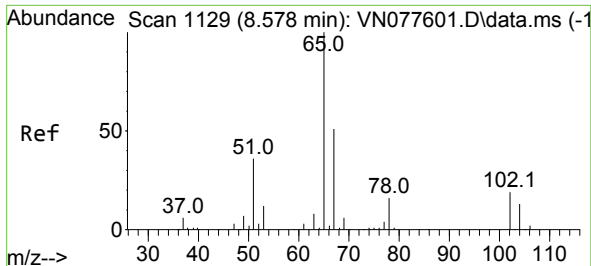
84 100

49 32.2 82.4 123.6#

51 16.0 25.1 37.7#

86 0.0 50.2 75.4#





#27

1,2-Dichloroethane-d4

Concen: 30.818 ug/l

RT: 8.584 min Scan# 1129

Delta R.T. 0.006 min

Lab File: VN077617.D

Acq: 08 May 2023 15:08

Instrument :

MSVOA_N

ClientSampleId :

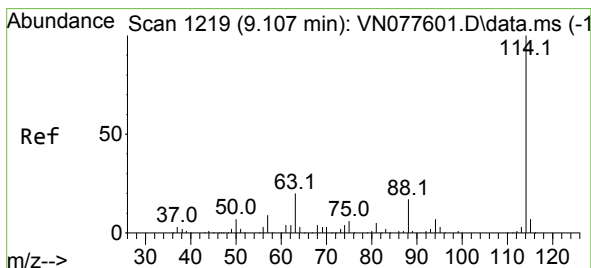
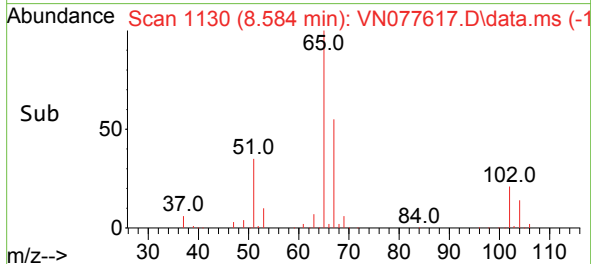
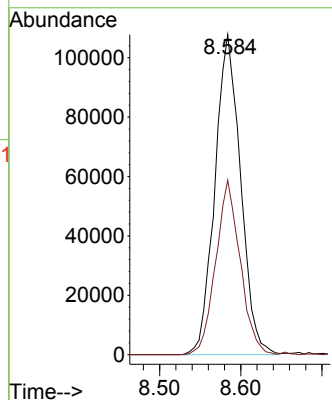
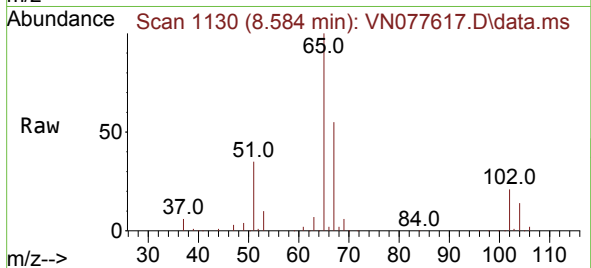
VN0508WBL01

Tgt Ion: 65 Resp: 237421

Ion Ratio Lower Upper

65 100

67 51.8 41.3 61.9



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.101 min Scan# 1218

Delta R.T. -0.006 min

Lab File: VN077617.D

Acq: 08 May 2023 15:08

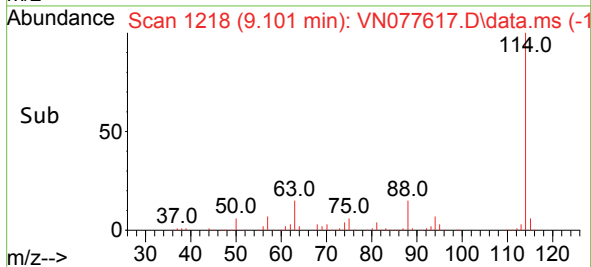
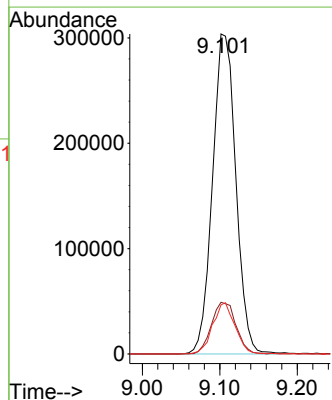
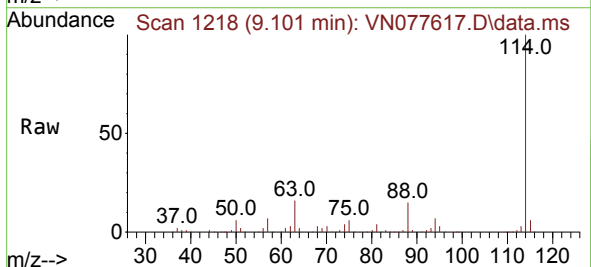
Tgt Ion: 114 Resp: 635368

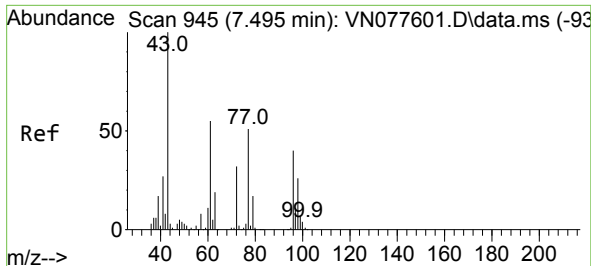
Ion Ratio Lower Upper

114 100

63 17.0 15.8 23.6

88 15.2 13.0 19.4

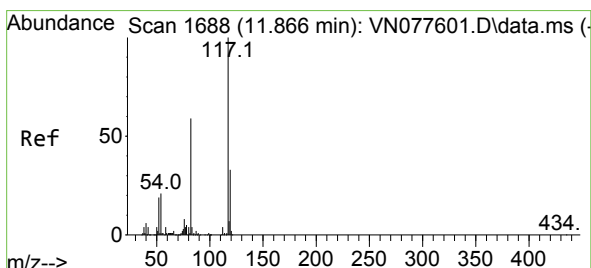
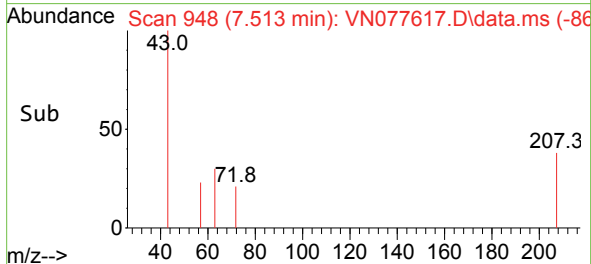
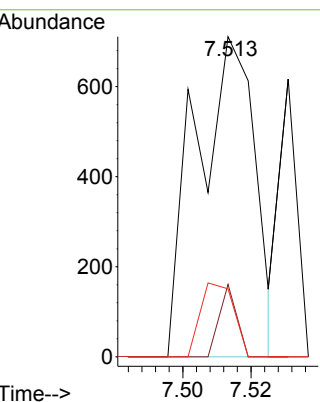
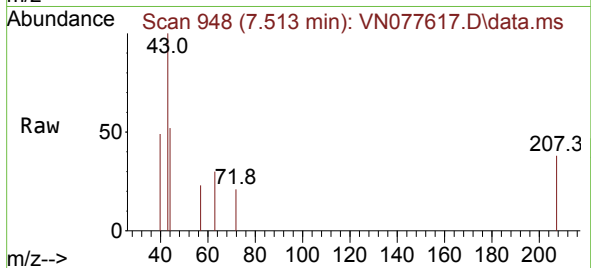




#30
2-Butanone
Concen: 0.352 ug/l
RT: 7.513 min Scan# 945
Delta R.T. 0.018 min
Lab File: VN077617.D
Acq: 08 May 2023 15:08

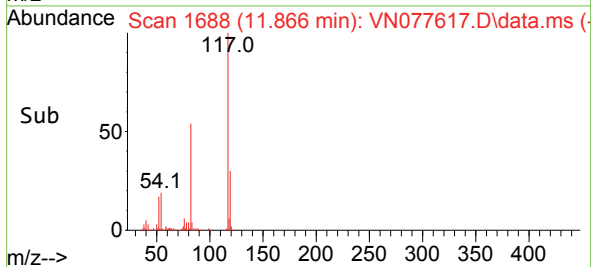
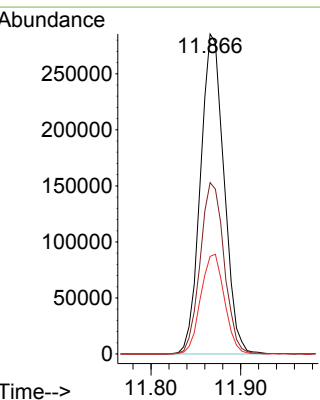
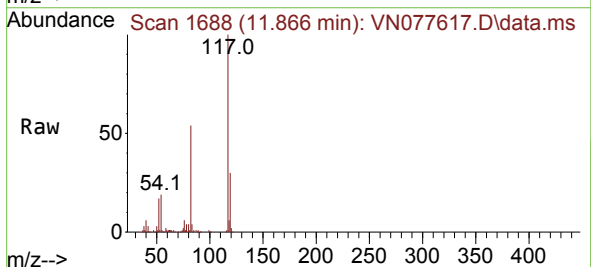
Instrument :
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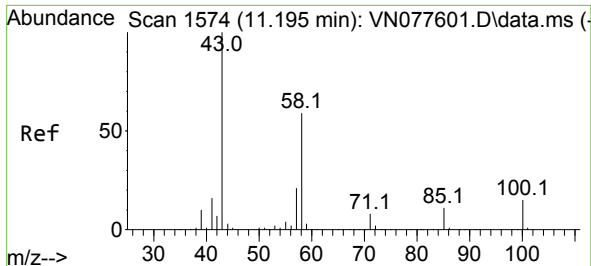
Tgt Ion: 43 Resp: 859
Ion Ratio Lower Upper
43 100
57 0.0 7.2 10.8#
72 12.9 26.2 39.2#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.866 min Scan# 1688
Delta R.T. 0.000 min
Lab File: VN077617.D
Acq: 08 May 2023 15:08

Tgt Ion: 117 Resp: 519936
Ion Ratio Lower Upper
117 100
82 54.5 47.4 71.2
119 31.4 26.6 39.8

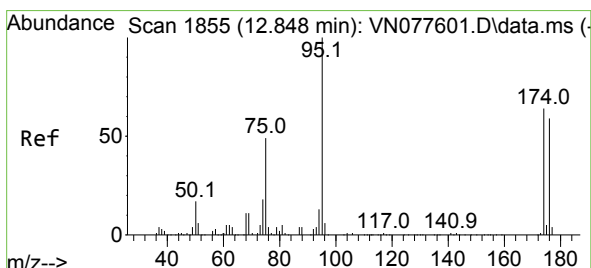
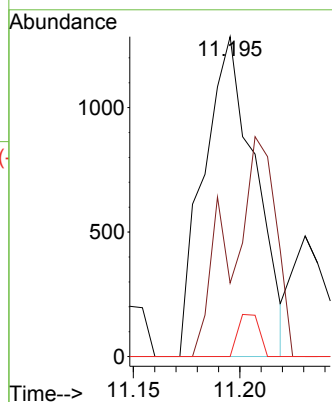
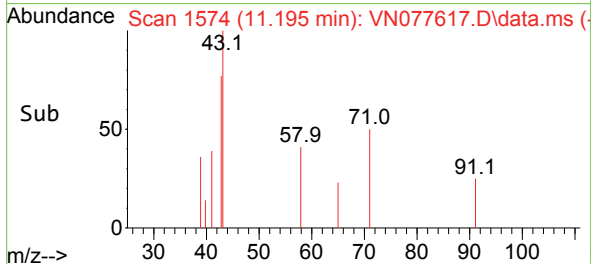
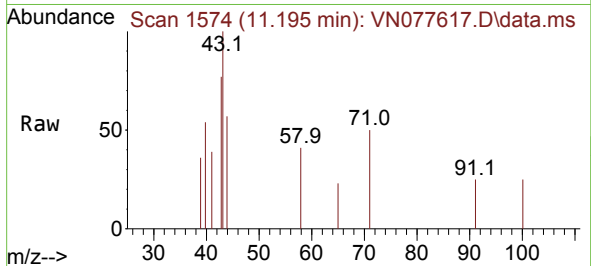




#59
2-Hexanone
Concen: 0.625 ug/l
RT: 11.195 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN077617.D
Acq: 08 May 2023 15:08

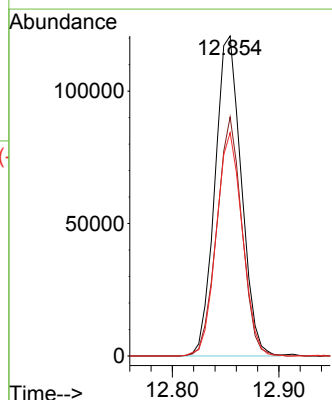
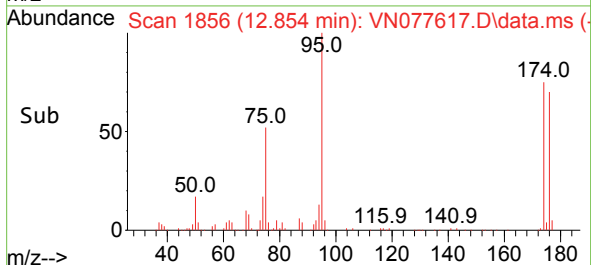
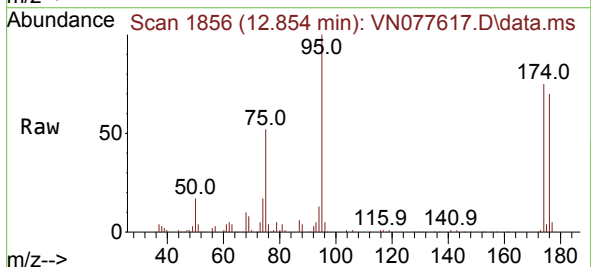
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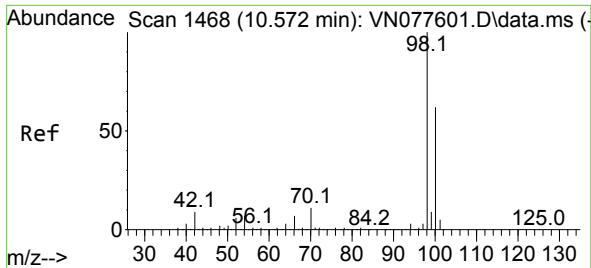
Tgt Ion: 43 Resp: 2161
Ion Ratio Lower Upper
43 100
58 42.0 48.2 72.2#
57 5.5 17.3 25.9#



#60
4-Bromofluorobenzene
Concen: 25.099 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN077617.D
Acq: 08 May 2023 15:08

Tgt Ion: 95 Resp: 207503
Ion Ratio Lower Upper
95 100
174 70.8 53.4 80.0
176 69.0 50.0 75.0

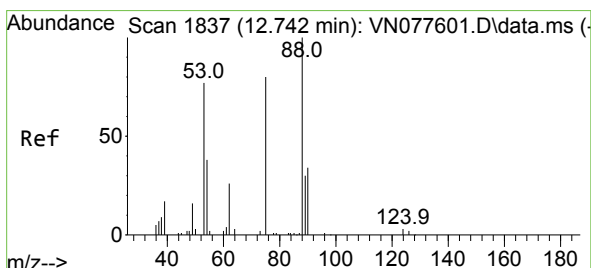
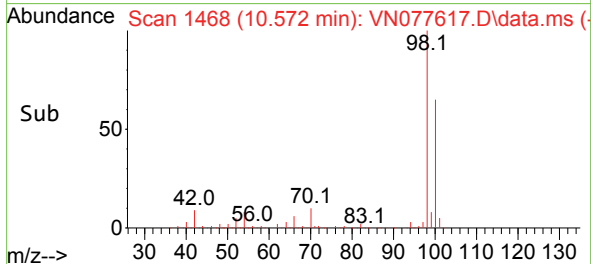
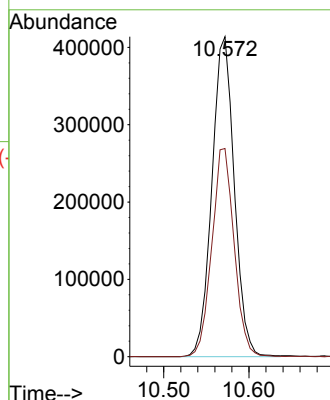
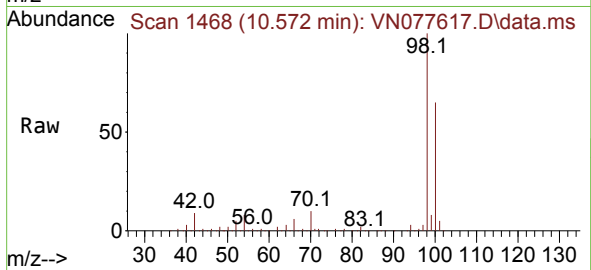




#63
Toluene-d8
Concen: 31.444 ug/l
RT: 10.572 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VN077617.D
Acq: 08 May 2023 15:08

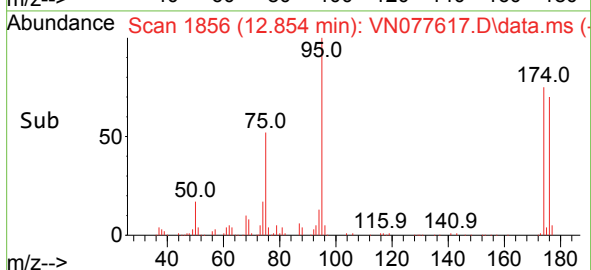
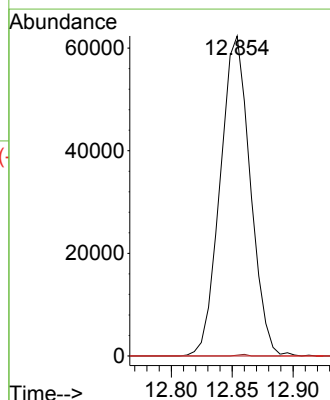
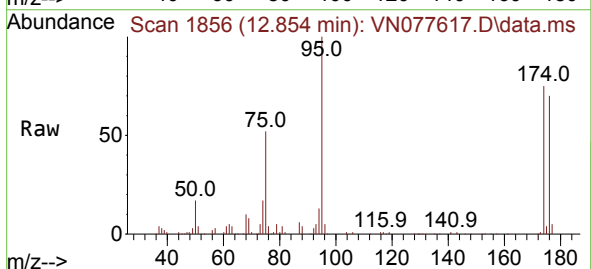
Instrument :
MSVOA_N
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VN0508WBL01

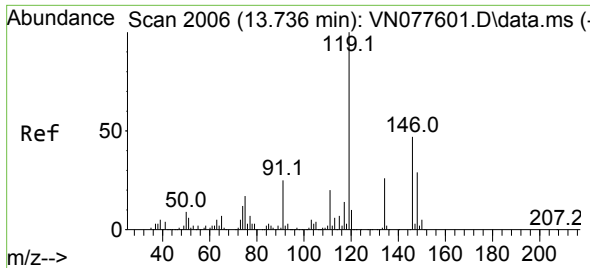
Tgt Ion: 98 Resp: 755099
Ion Ratio Lower Upper
98 100
100 64.9 52.1 78.1



#77
t-1,4-Dichloro-2-butene
Concen: 42.849 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.112 min
Lab File: VN077617.D
Acq: 08 May 2023 15:08

Tgt Ion: 75 Resp: 106990
Ion Ratio Lower Upper
75 100
53 0.3 46.9 140.7#
89 0.0 21.0 63.0#

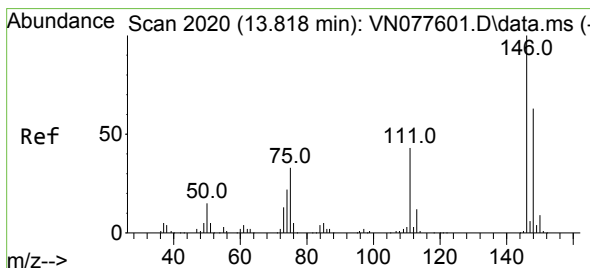
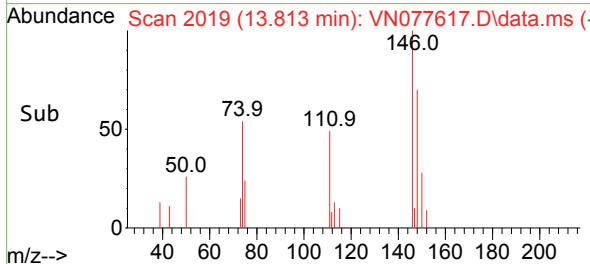
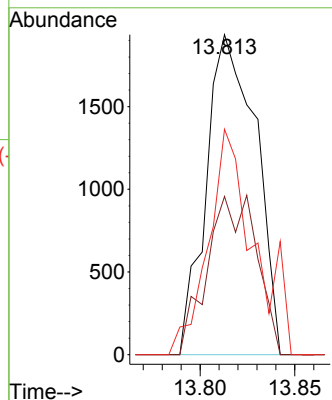
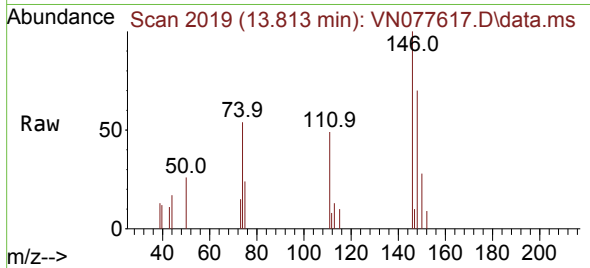




#83
 1,3-Dichlorobenzene
 Concen: 0.283 ug/l
 RT: 13.813 min Scan# 2019
 Delta R.T. 0.077 min
 Lab File: VN077617.D
 Acq: 08 May 2023 15:08

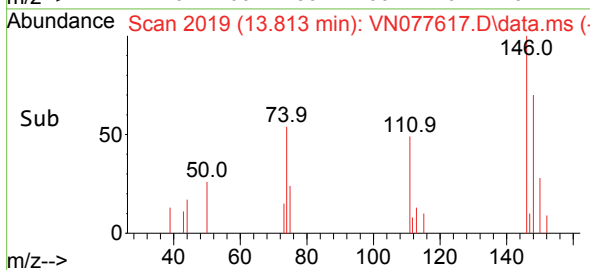
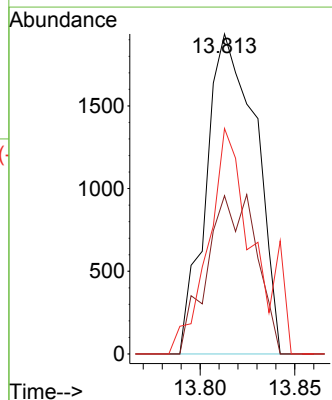
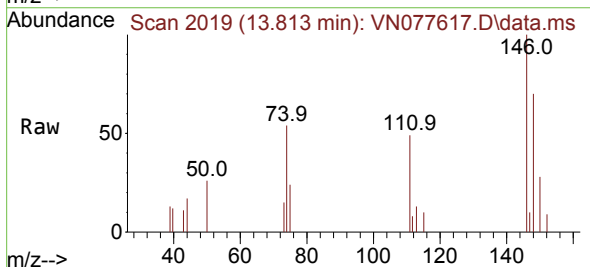
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0508WBL01

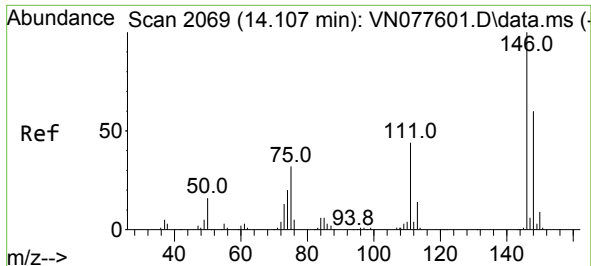
Tgt Ion:146 Resp: 3529
 Ion Ratio Lower Upper
 146 100
 111 31.0 22.1 66.1
 148 57.5 32.5 97.4



#84
 1,4-Dichlorobenzene
 Concen: 0.289 ug/l
 RT: 13.813 min Scan# 2019
 Delta R.T. -0.005 min
 Lab File: VN077617.D
 Acq: 08 May 2023 15:08

Tgt Ion:146 Resp: 3529
 Ion Ratio Lower Upper
 146 100
 111 31.0 20.8 62.4
 148 57.5 31.1 93.5

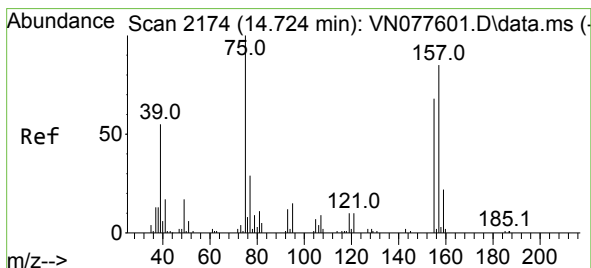
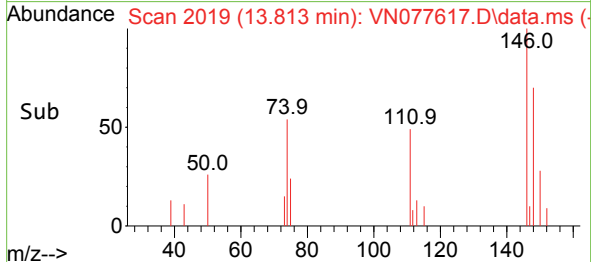
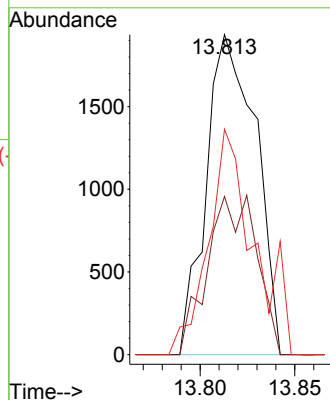
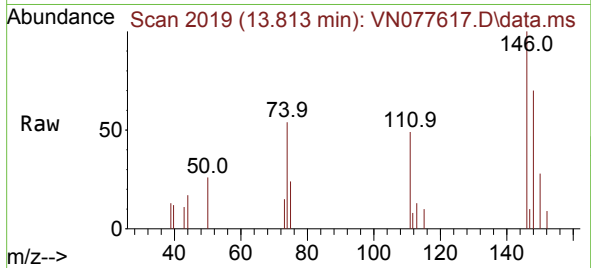




#87
 1,2-Dichlorobenzene
 Concen: 0.291 ug/l
 RT: 13.813 min Scan# 2069
 Delta R.T. -0.294 min
 Lab File: VN077617.D
 Acq: 08 May 2023 15:08

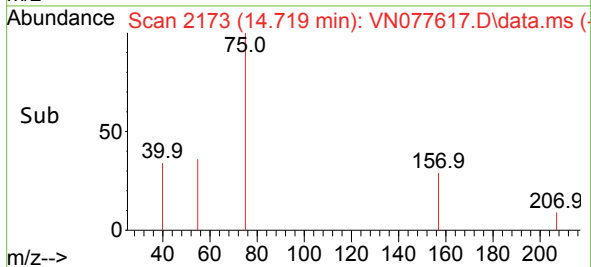
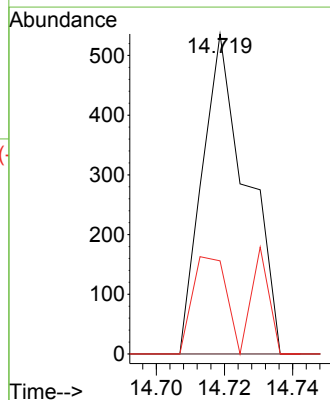
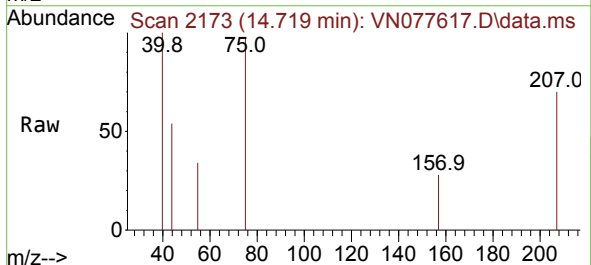
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0508WBL01

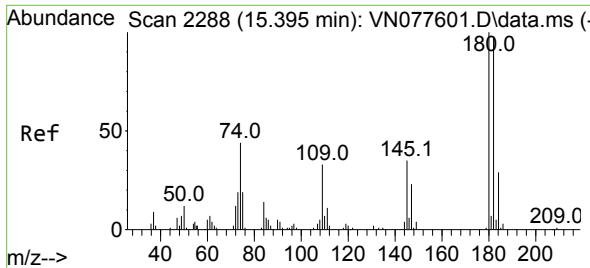
Tgt Ion:146 Resp: 3529
 Ion Ratio Lower Upper
 146 100
 111 31.0 22.7 68.0
 148 57.5 31.0 93.0



#88
 1,2-Dibromo-3-Chloropropane
 Concen: 0.310 ug/l
 RT: 14.719 min Scan# 2173
 Delta R.T. -0.005 min
 Lab File: VN077617.D
 Acq: 08 May 2023 15:08

Tgt Ion: 75 Resp: 486
 Ion Ratio Lower Upper
 75 100
 155 0.0 63.1 94.7#
 157 23.3 75.5 113.3#

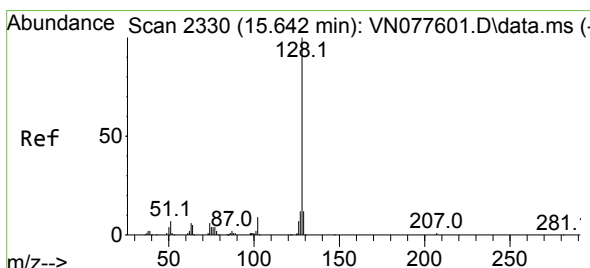
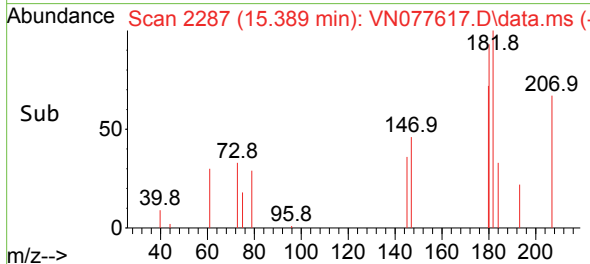
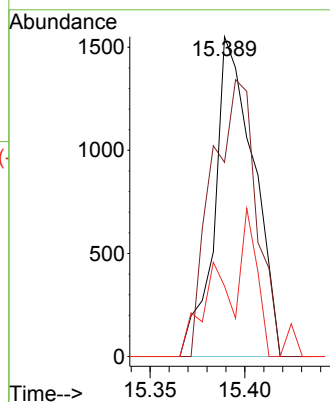
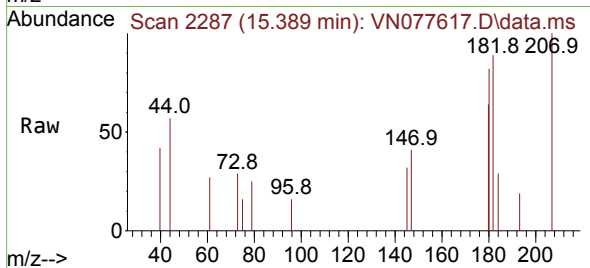




#89
1,2,4-Trichlorobenzene
Concen: 0.534 ug/l
RT: 15.389 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN077617.D
Acq: 08 May 2023 15:08

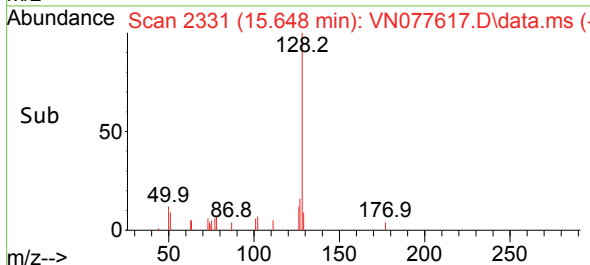
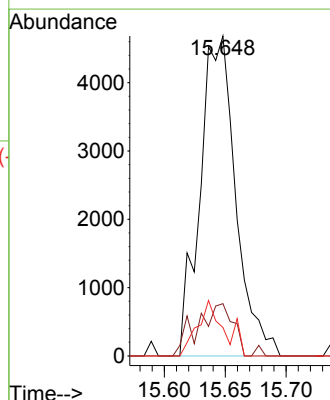
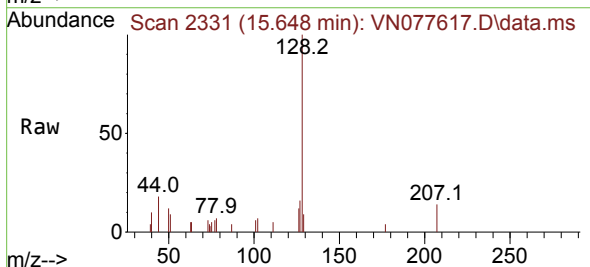
Instrument :
MSVOA_N
ClientSampleId :
VN0508WBL01

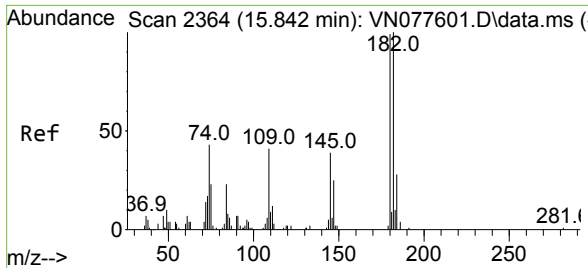
Tgt Ion:180 Resp: 2229
Ion Ratio Lower Upper
180 100
182 98.0 75.1 112.7
145 17.9 28.6 43.0#



#91
Naphthalene
Concen: 0.669 ug/l
RT: 15.648 min Scan# 2331
Delta R.T. 0.006 min
Lab File: VN077617.D
Acq: 08 May 2023 15:08

Tgt Ion:128 Resp: 9538
Ion Ratio Lower Upper
128 100
127 13.1 9.6 14.4
129 2.0 9.1 13.7#





#92
 1,2,3-Trichlorobenzene
 Concen: 0.963 ug/l
 RT: 15.842 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VN077617.D
 Acq: 08 May 2023 15:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0508WBL01

Tgt Ion:	180	Resp:	3701
Ion Ratio	Lower	Upper	
180	100		
182	22.0	0.0	193.4
145	12.1	0.0	78.6

