

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121923\
 Data File : VN080521.D
 Acq On : 19 Dec 2023 15:34
 Operator : JC\MD
 Sample : 05874-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 20 04:03:29 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N121223W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 13 01:57:14 2023
 Response via : Initial Calibration

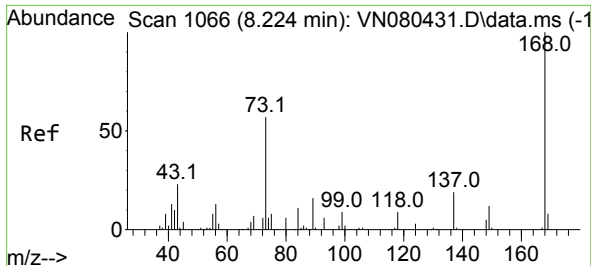
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.224	168	209451	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	386326	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	414264	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	190312	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	149985	56.066	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	112.140%
35) Dibromofluoromethane	8.165	113	123169	50.284	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	100.560%
50) Toluene-d8	10.565	98	453763	49.672	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	99.340%
62) 4-Bromofluorobenzene	12.853	95	190364	54.878	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	109.760%
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	2632	0.540	ug/l #	81
5) Bromomethane	2.965	94	212	0.206	ug/l	95
6) Chloroethane	3.118	64	328	0.223	ug/l #	43
13) Acrolein	4.171	56	414	1.200	ug/l #	16
16) Acetone	4.418	43	1020	2.150	ug/l	88
17) Carbon Disulfide	4.700	76	1954	0.306	ug/l #	75
20) Methylene Chloride	5.289	84	821	0.323	ug/l #	49
31) Cyclohexane	8.230	56	4731	1.300	ug/l #	44
36) 1,1-Dichloropropene	8.224	75	17522	4.375	ug/l #	49
38) Carbon Tetrachloride	8.224	117	23541	4.919	ug/l #	15
51) 4-Methyl-2-Pentanone	10.559	43	1674	0.674	ug/l #	1
59) 2-Hexanone	11.212	43	4833	2.636	ug/l #	36
76) 1,2,3-Trichloropropane	12.853	75	101317	26.686	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	101317	70.066	ug/l #	15
89) n-Butylbenzene	14.059	91	2630	0.253	ug/l	95
93) 1,2,4-Trichlorobenzene	15.388	180	1359	0.389	ug/l	92
94) Hexachlorobutadiene	15.506	225	786	0.395	ug/l #	61
95) Naphthalene	15.641	128	4831	0.455	ug/l #	93
96) 1,2,3-Trichlorobenzene	15.847	180	1477	0.438	ug/l	95

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

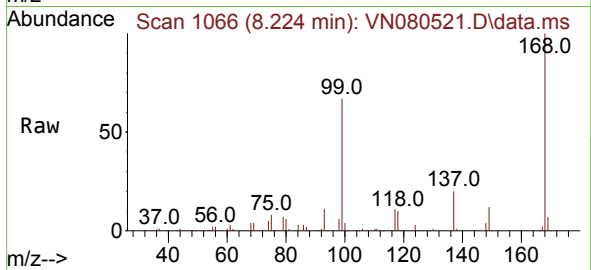
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QLast Update : Wed Dec 13 01:57:14 2023
Response via : Initial Calibration



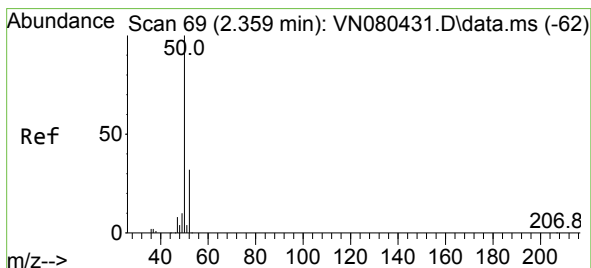
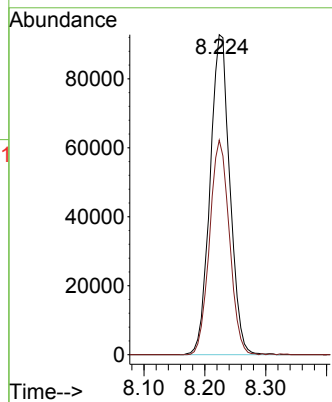
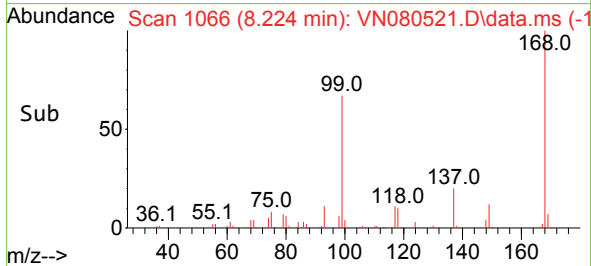


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN080521.D
Acq: 19 Dec 2023 15:34

Instrument :
MSVOA_N
ClientSampleId :

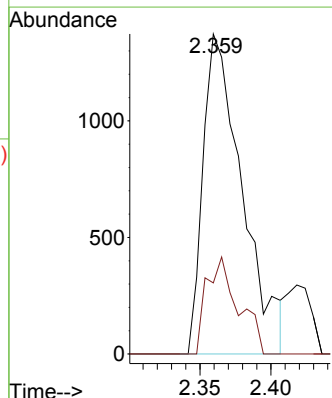
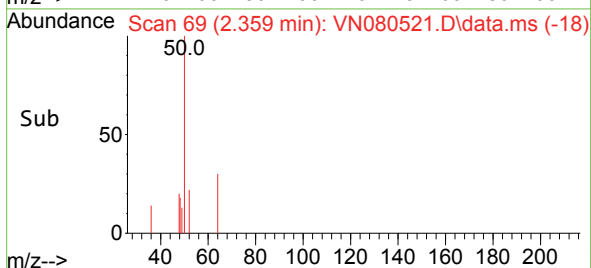
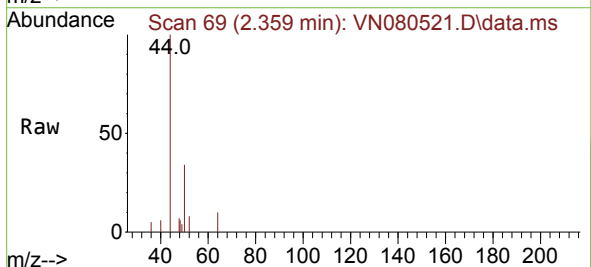


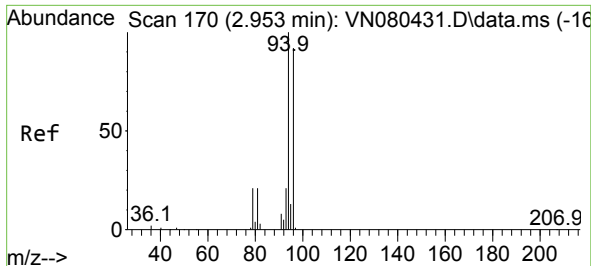
Tgt Ion:168 Resp: 209451
Ion Ratio Lower Upper
168 100
99 67.0 53.0 79.6



#3
Chloromethane
Concen: 0.540 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN080521.D
Acq: 19 Dec 2023 15:34

Tgt Ion: 50 Resp: 2632
Ion Ratio Lower Upper
50 100
52 22.2 26.5 39.7#

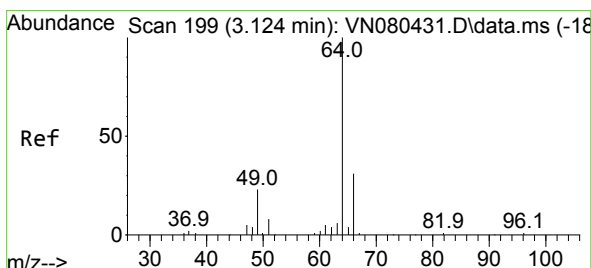
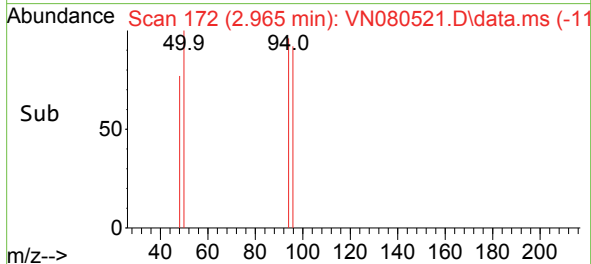
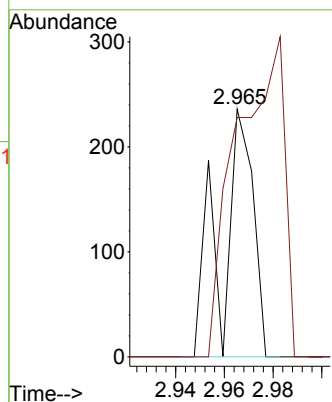
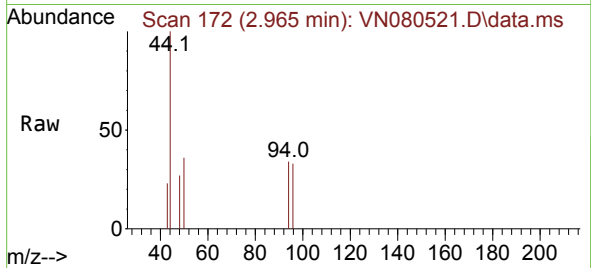




#5
Bromomethane
Concen: 0.206 ug/l
RT: 2.965 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN080521.D
Acq: 19 Dec 2023 15:34

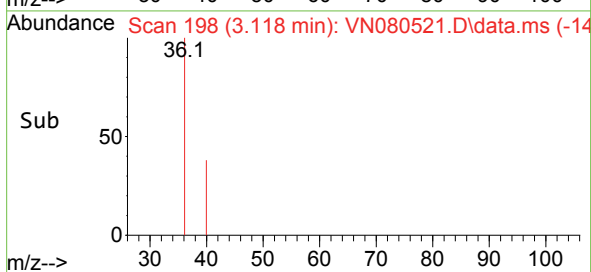
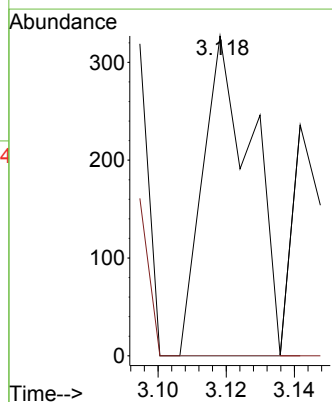
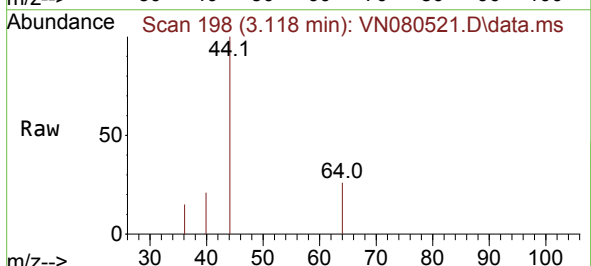
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MSVOA_N
ClientSampleId :

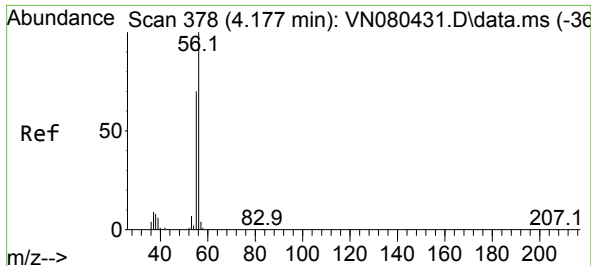
Tgt Ion: 94 Resp: 212
Ion Ratio Lower Upper
94 100
96 96.6 73.1 109.7



#6
Chloroethane
Concen: 0.223 ug/l
RT: 3.118 min Scan# 198
Delta R.T. -0.006 min
Lab File: VN080521.D
Acq: 19 Dec 2023 15:34

Tgt Ion: 64 Resp: 328
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#

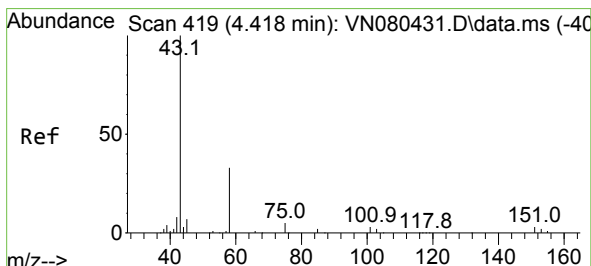
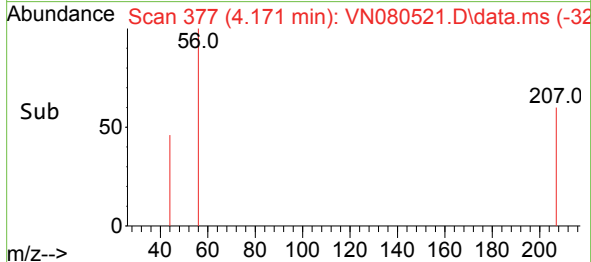
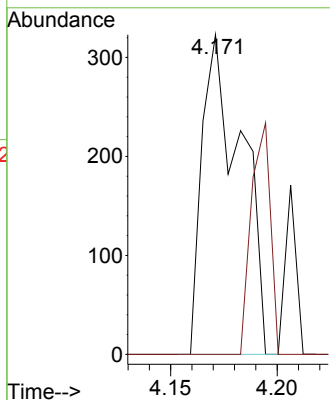
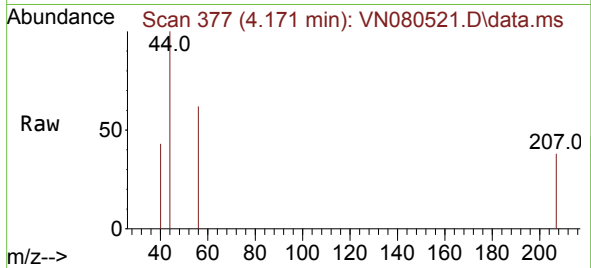




#13
Acrolein
Concen: 1.200 ug/l
RT: 4.171 min Scan# 31
Delta R.T. -0.006 min
Lab File: VN080521.D
Acq: 19 Dec 2023 15:34

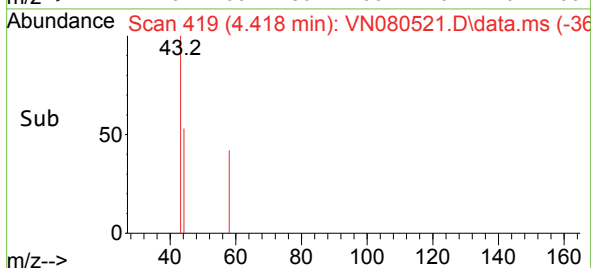
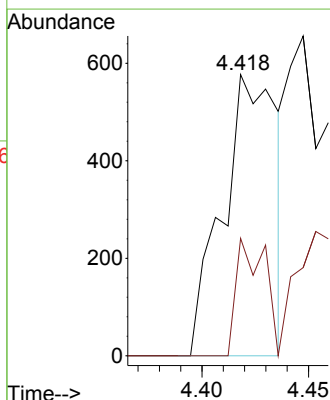
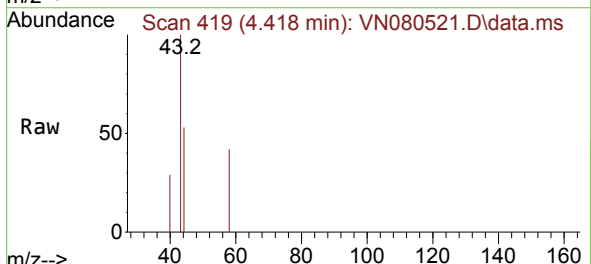
Instrument :
MSVOA_N
ClientSampleId :

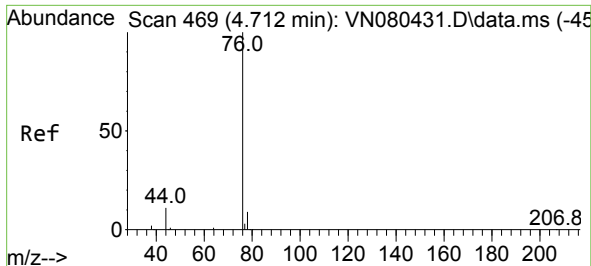
Tgt Ion: 56 Resp: 414
Ion Ratio Lower Upper
56 100
55 0.0 54.5 81.7#



#16
Acetone
Concen: 2.150 ug/l
RT: 4.418 min Scan# 419
Delta R.T. 0.000 min
Lab File: VN080521.D
Acq: 19 Dec 2023 15:34

Tgt Ion: 43 Resp: 1020
Ion Ratio Lower Upper
43 100
58 41.8 28.0 42.0

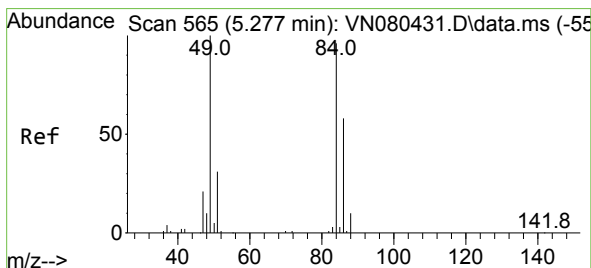
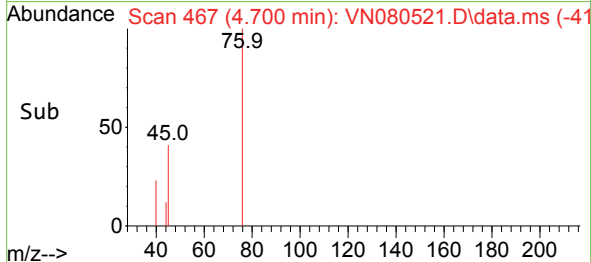
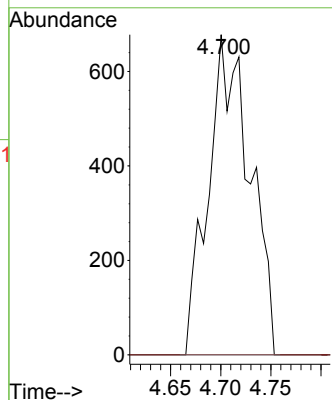
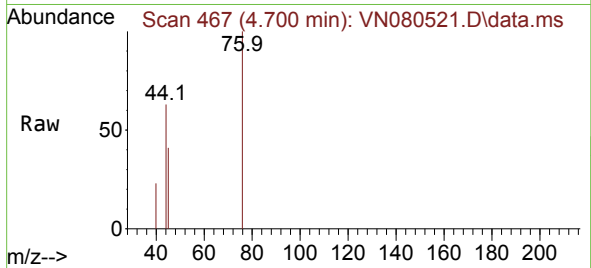




#17
Carbon Disulfide
Concen: 0.306 ug/l
RT: 4.700 min Scan# 467
Delta R.T. -0.012 min
Lab File: VN080521.D
Acq: 19 Dec 2023 15:34

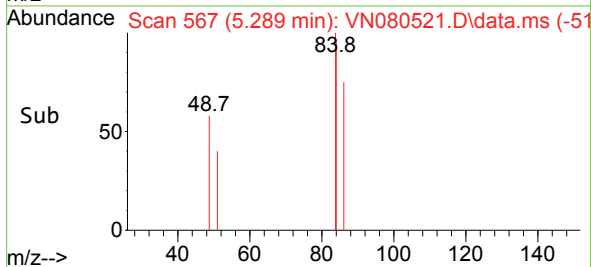
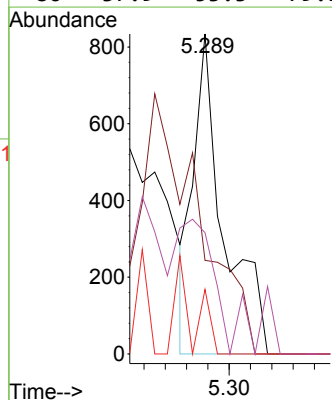
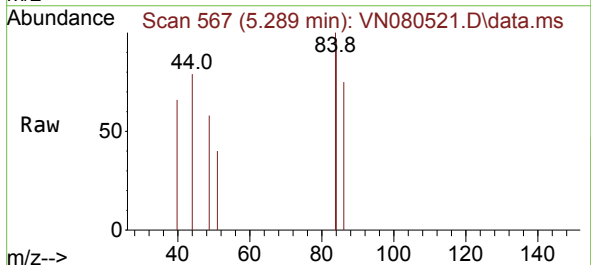
Instrument :
MSVOA_N
ClientSampleId :

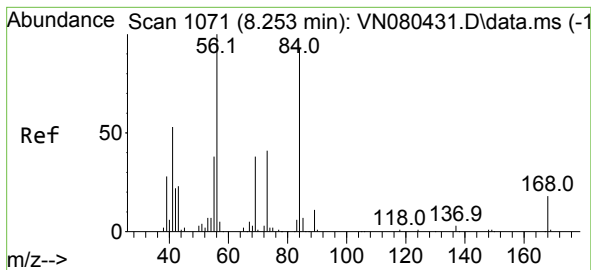
Tgt Ion: 76 Resp: 1954
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#



#20
Methylene Chloride
Concen: 0.323 ug/l
RT: 5.289 min Scan# 567
Delta R.T. 0.012 min
Lab File: VN080521.D
Acq: 19 Dec 2023 15:34

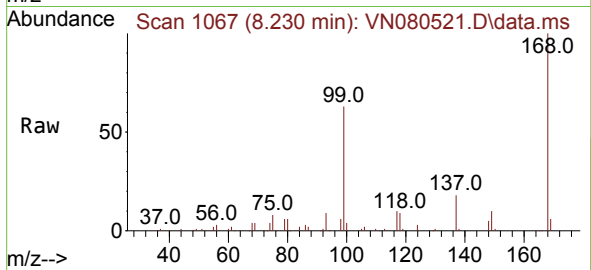
Tgt Ion: 84 Resp: 821
Ion Ratio Lower Upper
84 100
49 29.3 79.7 119.5#
51 20.1 25.2 37.8#
86 37.9 53.3 79.9#



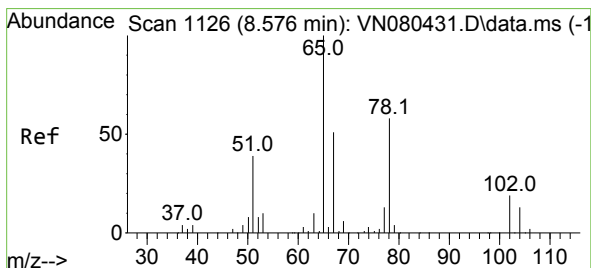
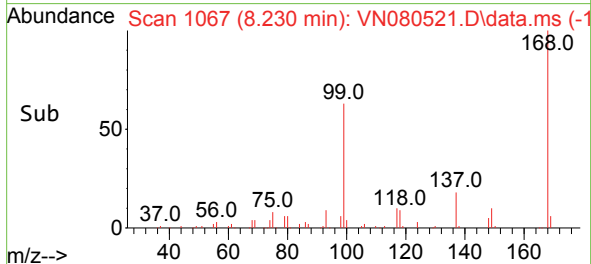
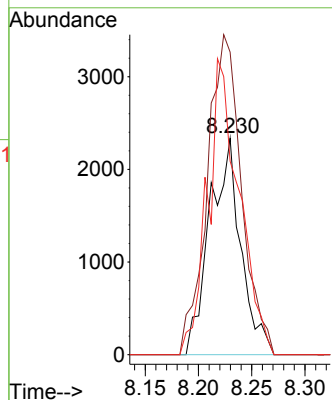


#31
Cyclohexane
Concen: 1.300 ug/l
RT: 8.230 min Scan# 1071
Delta R.T. -0.023 min
Lab File: VN080521.D
Acq: 19 Dec 2023 15:34

Instrument :
MSVOA_N
ClientSampleId :

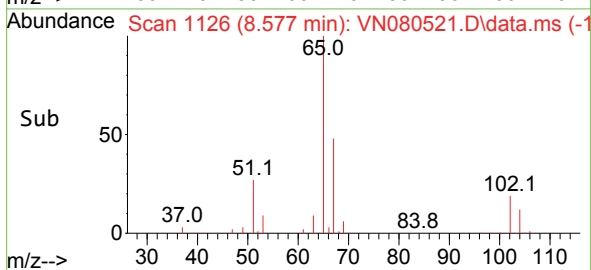
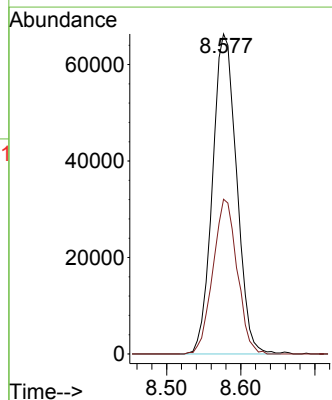
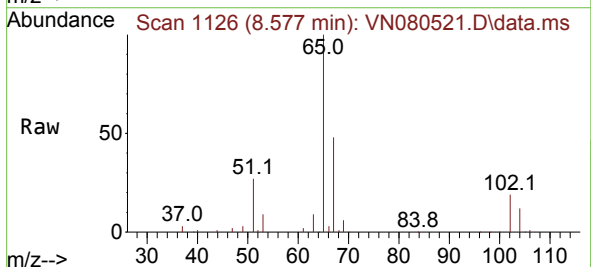


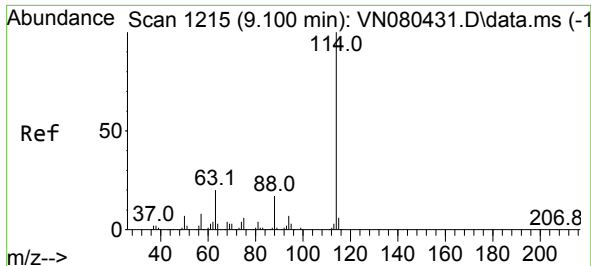
Tgt Ion: 56 Resp: 4731
Ion Ratio Lower Upper
56 100
69 139.7 26.8 40.2#
84 89.3 81.8 122.6



#33
1,2-Dichloroethane-d4
Concen: 56.066 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN080521.D
Acq: 19 Dec 2023 15:34

Tgt Ion: 65 Resp: 149985
Ion Ratio Lower Upper
65 100
67 48.6 0.0 106.6

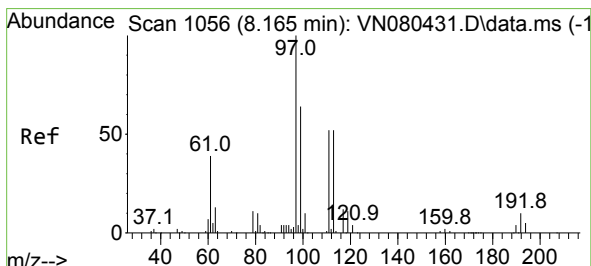
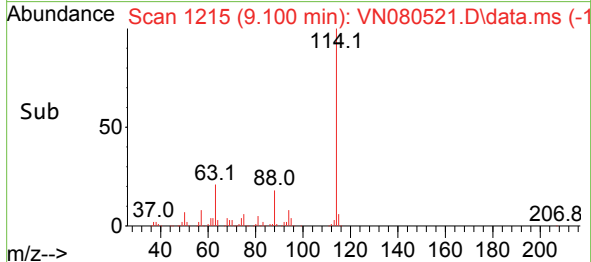
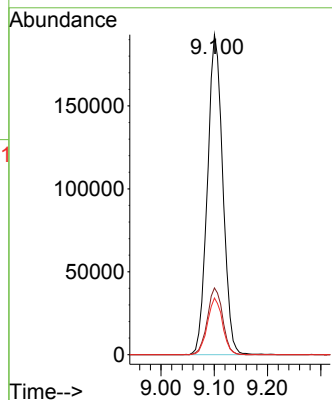
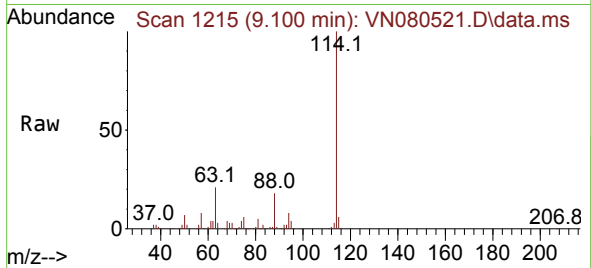




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN080521.D
Acq: 19 Dec 2023 15:34

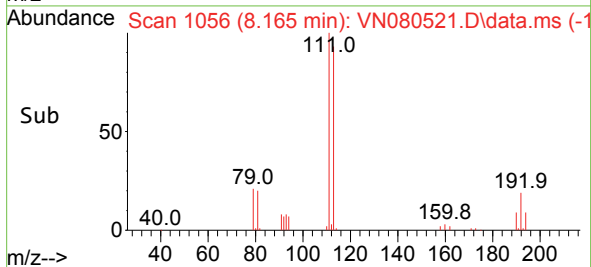
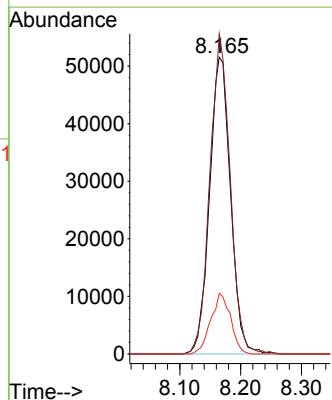
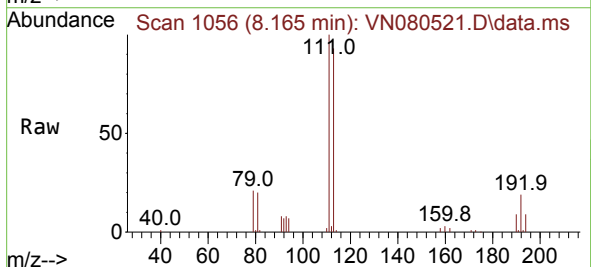
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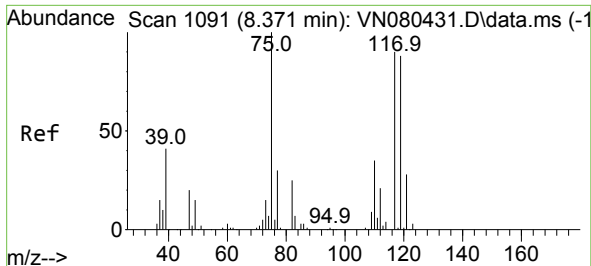
Tgt Ion:114 Resp: 386326
Ion Ratio Lower Upper
114 100
63 20.9 0.0 36.4
88 17.7 0.0 30.6



#35
Dibromofluoromethane
Concen: 50.284 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN080521.D
Acq: 19 Dec 2023 15:34

Tgt Ion:113 Resp: 123169
Ion Ratio Lower Upper
113 100
111 104.3 82.6 123.8
192 19.3 12.7 19.1#

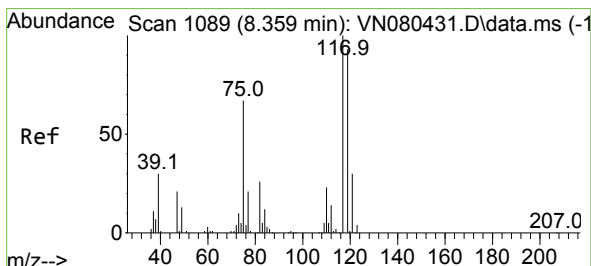
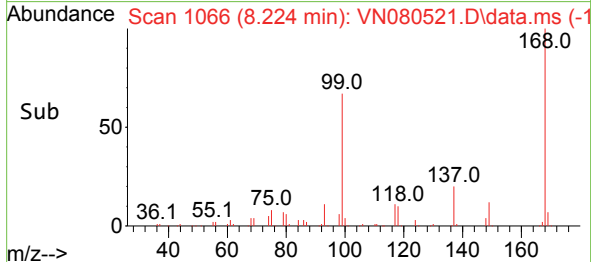
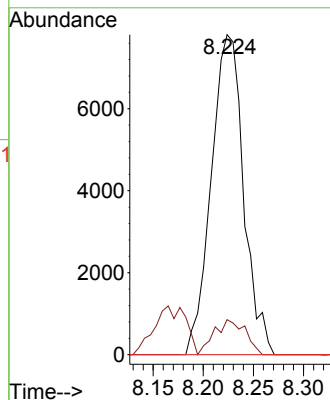
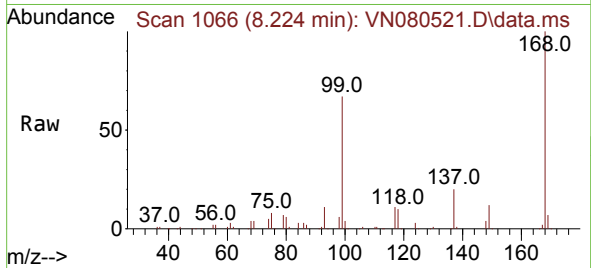




#36
1,1-Dichloropropene
Concen: 4.375 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.147 min
Lab File: VN080521.D
Acq: 19 Dec 2023 15:34

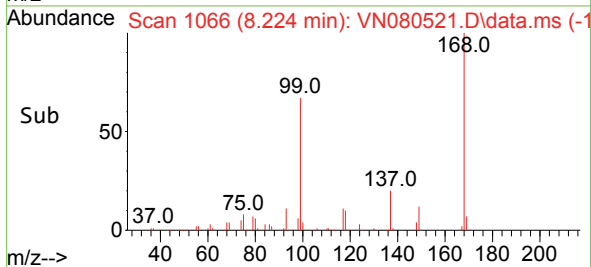
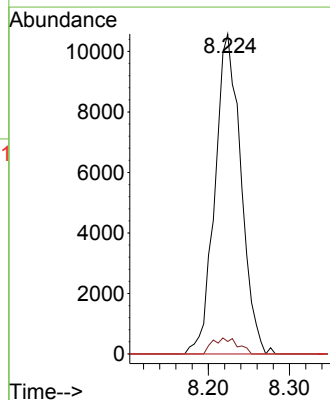
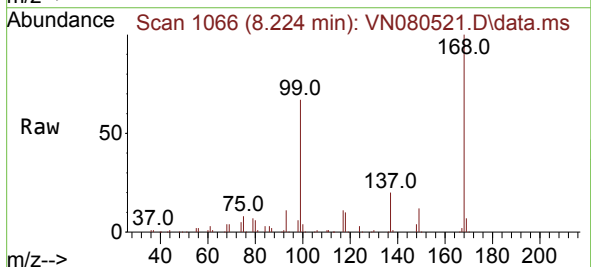
Instrument :
MSVOA_N
ClientSampleId :

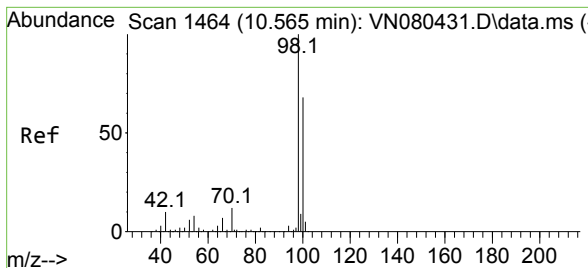
Tgt Ion: 75 Resp: 17522
Ion Ratio Lower Upper
75 100
110 10.5 19.1 57.3#
77 0.0 25.0 37.4#



#38
Carbon Tetrachloride
Concen: 4.919 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.135 min
Lab File: VN080521.D
Acq: 19 Dec 2023 15:34

Tgt Ion: 117 Resp: 23541
Ion Ratio Lower Upper
117 100
119 3.9 77.3 115.9#
121 0.0 23.3 34.9#

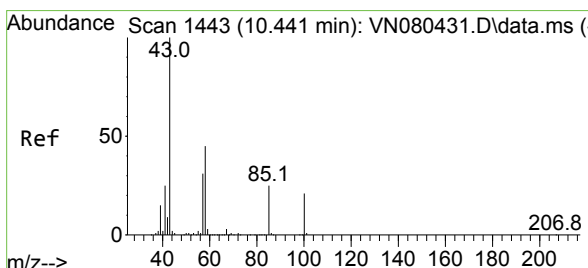
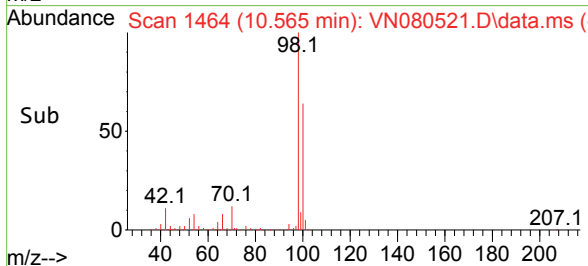
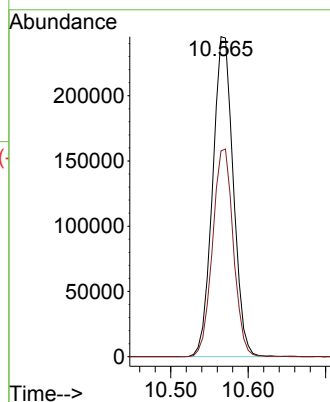
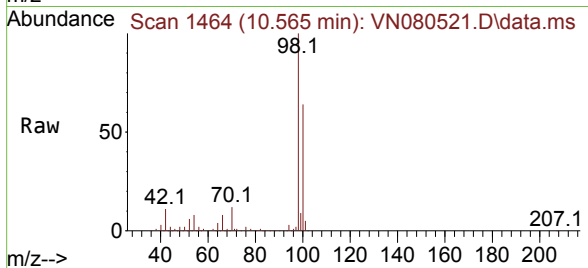




#50
Toluene-d8
Concen: 49.672 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN080521.D
Acq: 19 Dec 2023 15:34

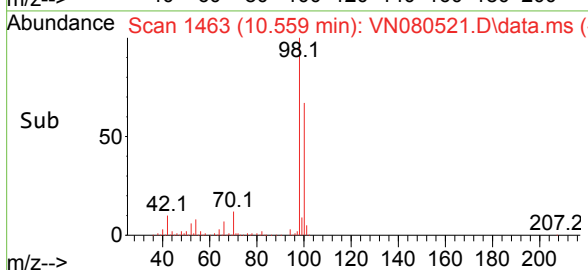
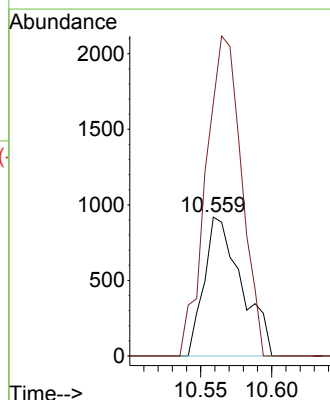
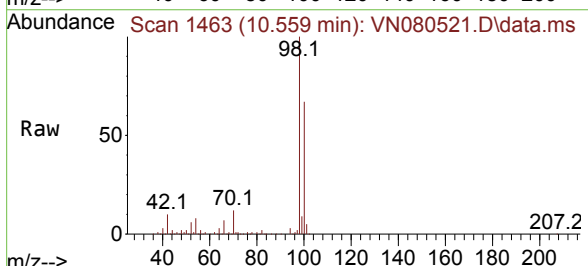
Instrument :
MSVOA_N
ClientSampleId :

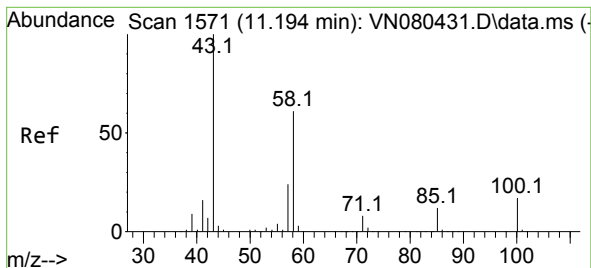
Tgt Ion: 98 Resp: 453763
Ion Ratio Lower Upper
98 100
100 65.3 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 0.674 ug/l
RT: 10.559 min Scan# 1463
Delta R.T. 0.118 min
Lab File: VN080521.D
Acq: 19 Dec 2023 15:34

Tgt Ion: 43 Resp: 1674
Ion Ratio Lower Upper
43 100
58 220.6 36.6 54.8#





#59

2-Hexanone

Concen: 2.636 ug/l

RT: 11.212 min Scan# 1574

Delta R.T. 0.018 min

Lab File: VN080521.D

Acq: 19 Dec 2023 15:34

Instrument :

MSVOA_N

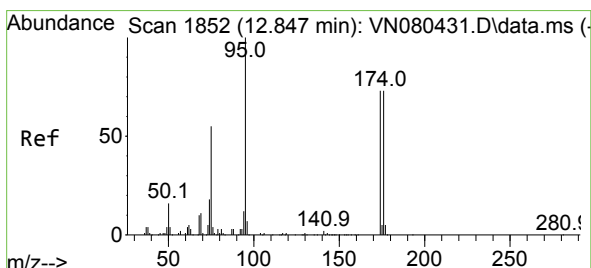
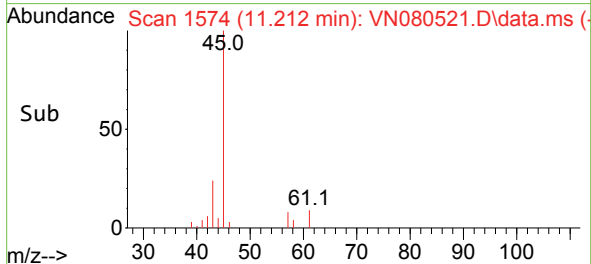
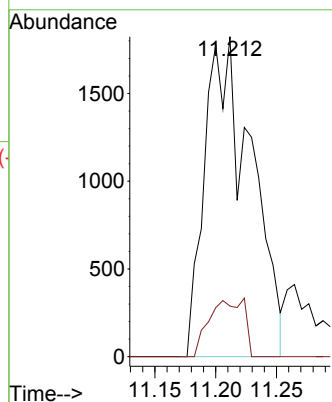
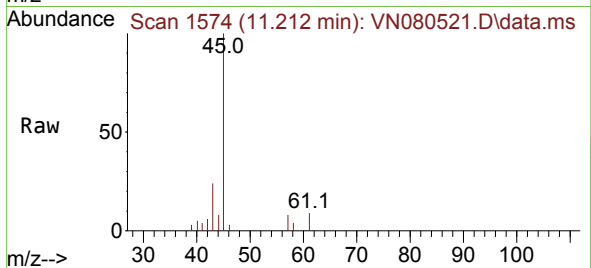
ClientSampleId :

Tgt Ion: 43 Resp: 4833

Ion Ratio Lower Upper

43 100

58 13.5 31.7 95.1#



#62

4-Bromofluorobenzene

Concen: 54.878 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.006 min

Lab File: VN080521.D

Acq: 19 Dec 2023 15:34

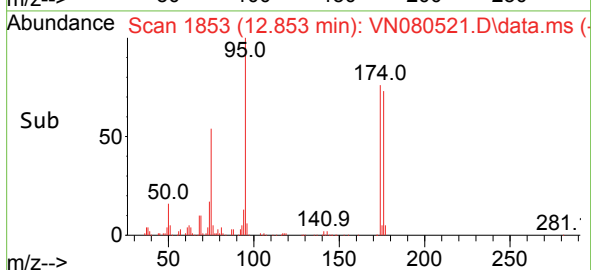
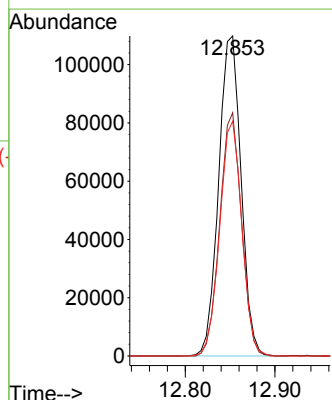
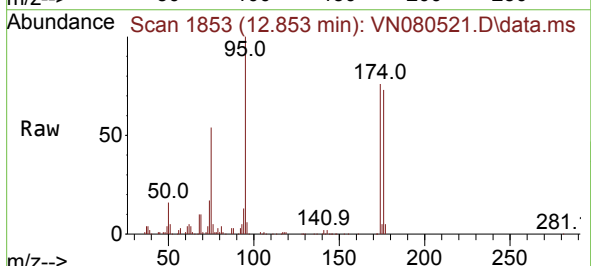
Tgt Ion: 95 Resp: 190364

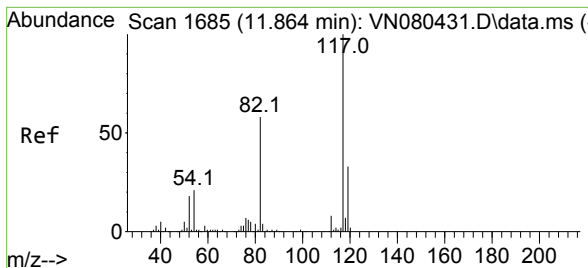
Ion Ratio Lower Upper

95 100

174 73.8 0.0 143.8

176 72.3 0.0 135.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN080521.D

Acq: 19 Dec 2023 15:34

Instrument :

MSVOA_N

ClientSampleId :

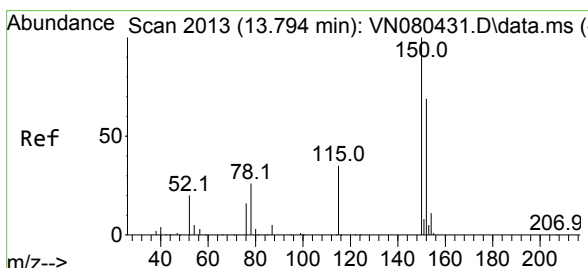
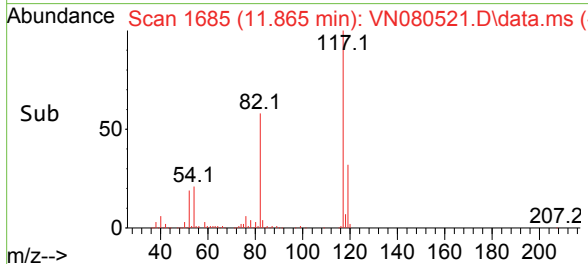
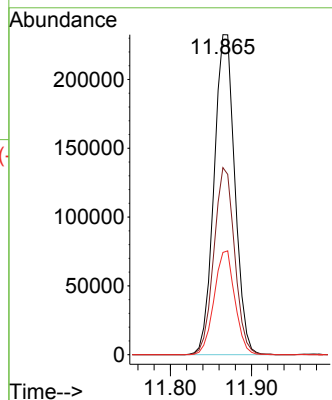
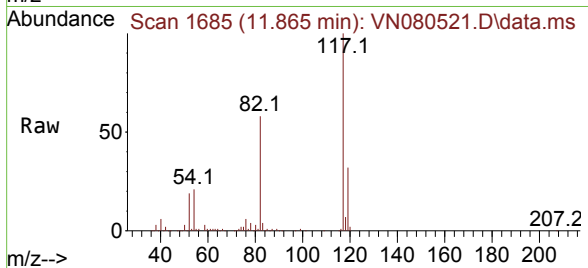
Tgt Ion:117 Resp: 414264

Ion Ratio Lower Upper

117 100

82 58.4 44.0 66.0

119 31.9 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: VN080521.D

Acq: 19 Dec 2023 15:34

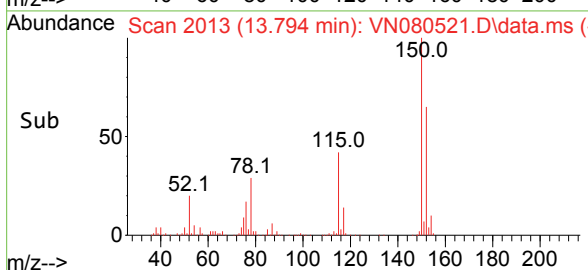
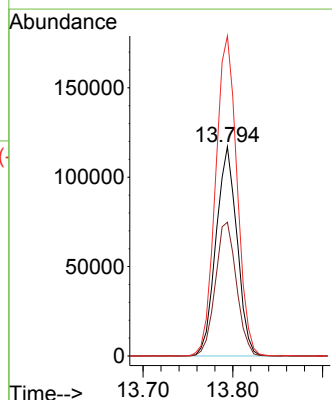
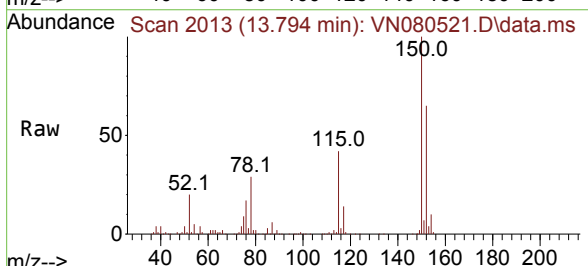
Tgt Ion:152 Resp: 190312

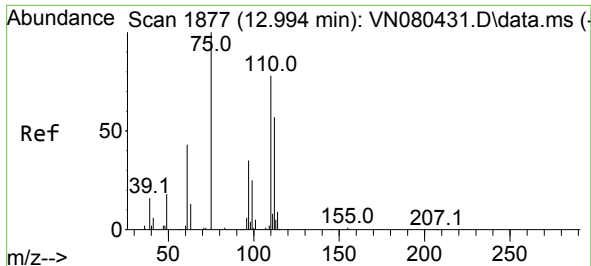
Ion Ratio Lower Upper

152 100

115 64.4 32.3 96.8

150 155.6 0.0 355.8

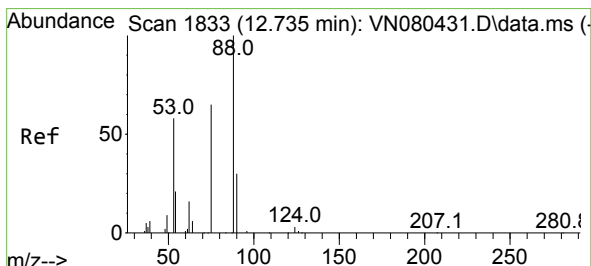
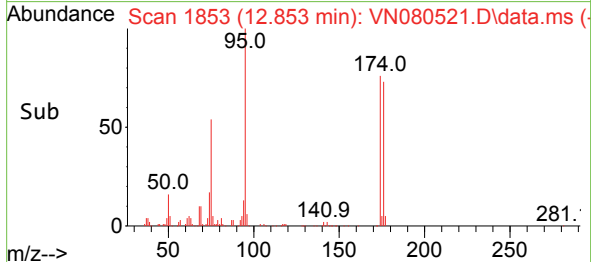
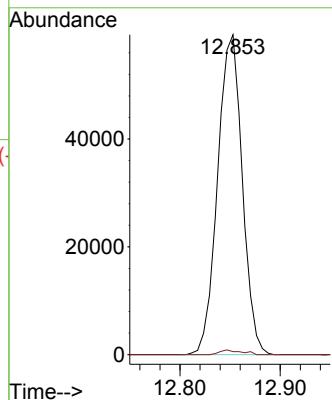
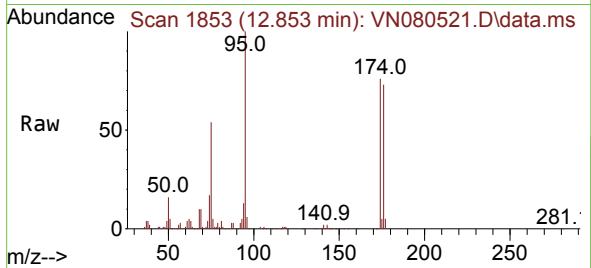




#76
1,2,3-Trichloropropane
Concen: 26.686 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.141 min
Lab File: VN080521.D
Acq: 19 Dec 2023 15:34

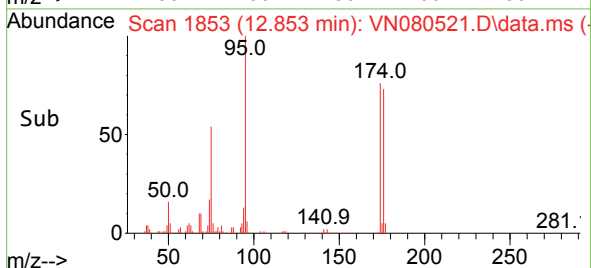
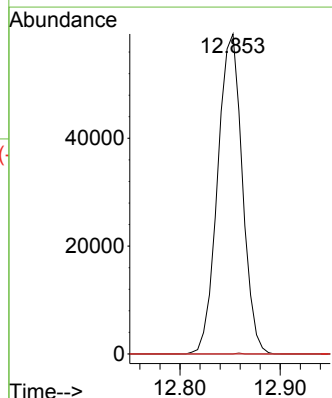
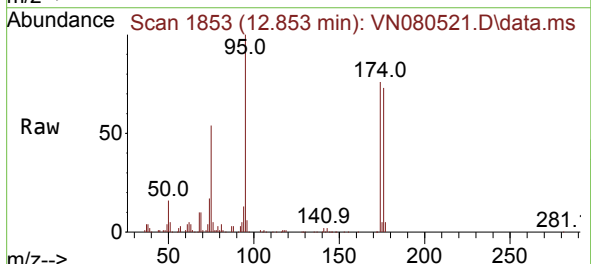
Instrument :
MSVOA_N
ClientSampleId :

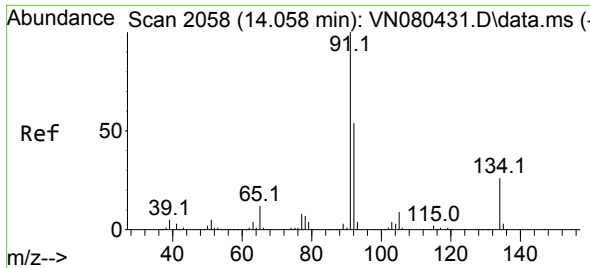
Tgt Ion: 75 Resp: 101317
Ion Ratio Lower Upper
75 100
77 1.3 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 70.066 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.118 min
Lab File: VN080521.D
Acq: 19 Dec 2023 15:34

Tgt Ion: 75 Resp: 101317
Ion Ratio Lower Upper
75 100
53 0.1 67.4 101.2#
89 0.0 38.8 58.2#

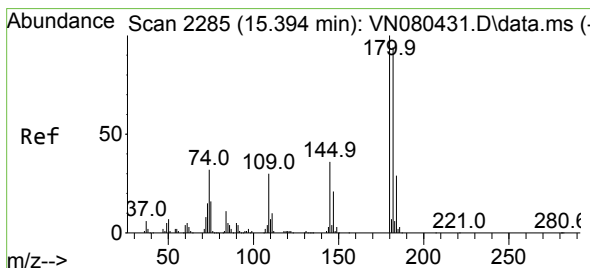
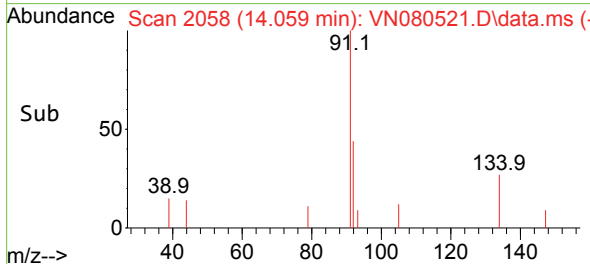
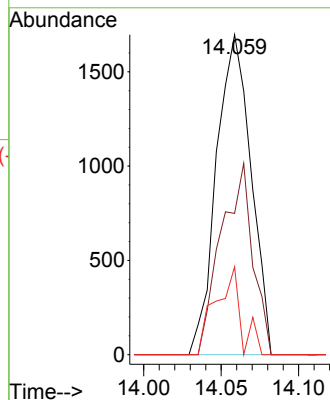
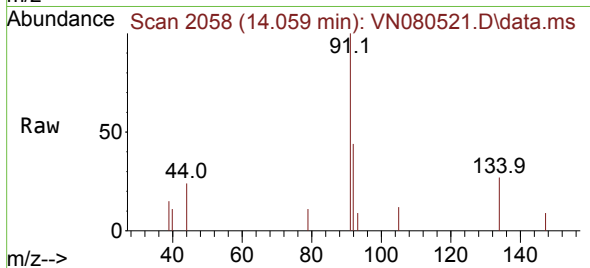




#89
n-Butylbenzene
Concen: 0.253 ug/l
RT: 14.059 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VN080521.D
Acq: 19 Dec 2023 15:34

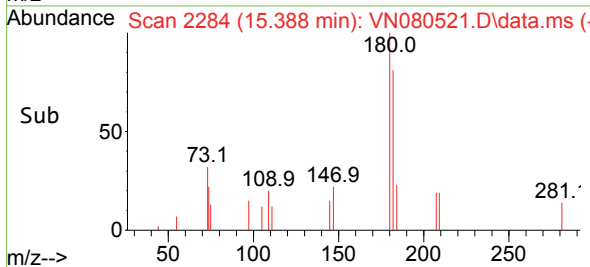
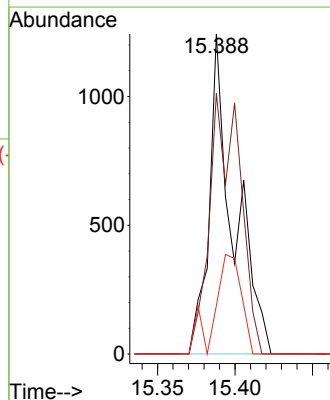
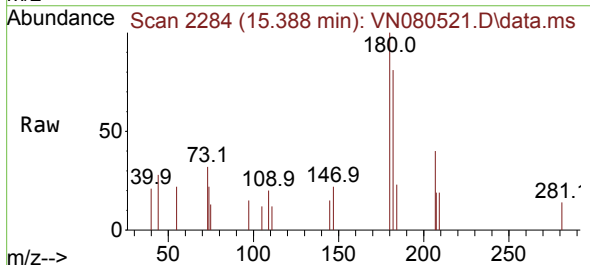
Instrument :
MSVOA_N
ClientSampleId :

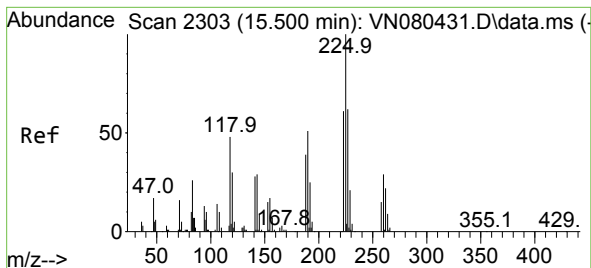
Tgt Ion: 91	Resp: 2630
Ion Ratio	Lower Upper
91 100	
92 54.8	26.4 79.0
134 20.2	12.6 37.6



#93
1,2,4-Trichlorobenzene
Concen: 0.389 ug/l
RT: 15.388 min Scan# 2284
Delta R.T. -0.006 min
Lab File: VN080521.D
Acq: 19 Dec 2023 15:34

Tgt Ion:180	Resp:	1359	
Ion	Ratio	Lower	Upper
180	100		
182	101.3	46.1	138.2
145	34.4	16.6	49.8





#94

Hexachlorobutadiene

Concen: 0.395 ug/l

RT: 15.506 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN080521.D

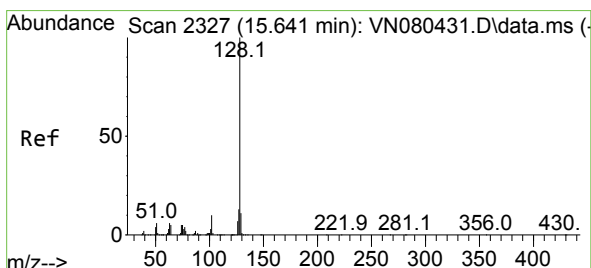
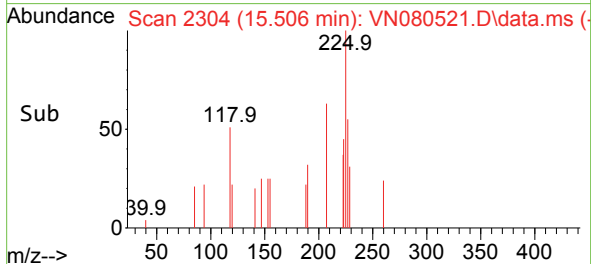
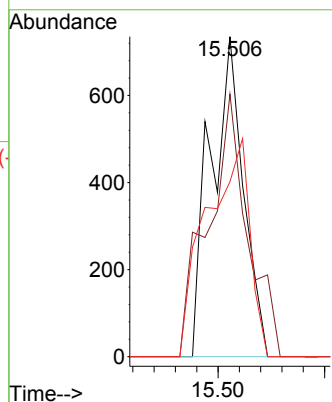
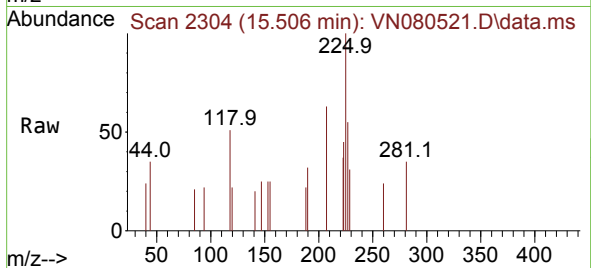
Acq: 19 Dec 2023 15:34

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:	225	Resp:	786
Ion Ratio	Lower	Upper	
225	100		
223	98.3	31.3	93.8#
227	89.3	31.9	95.9



#95

Naphthalene

Concen: 0.455 ug/l

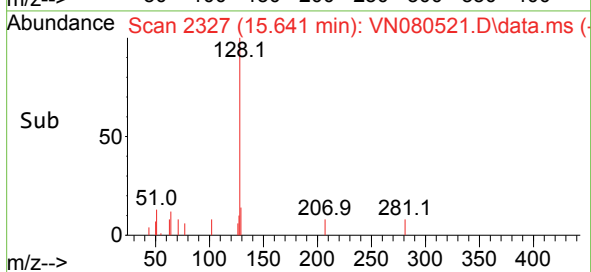
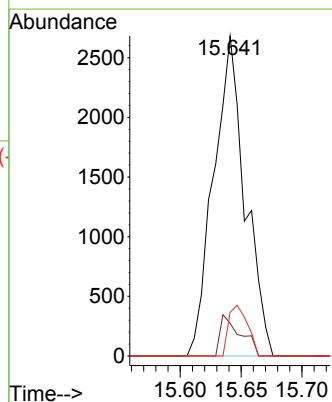
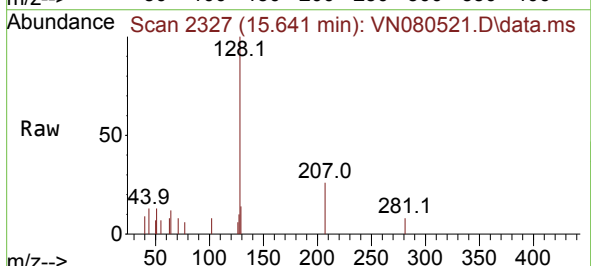
RT: 15.641 min Scan# 2327

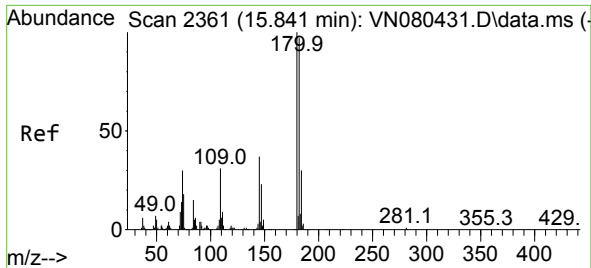
Delta R.T. 0.000 min

Lab File: VN080521.D

Acq: 19 Dec 2023 15:34

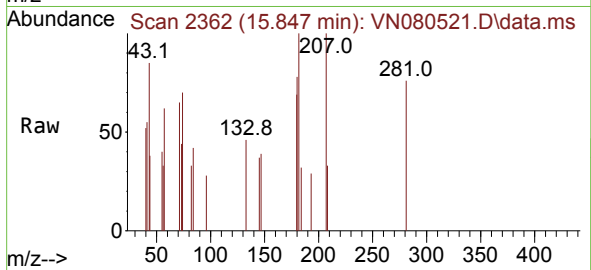
Tgt Ion:	128	Resp:	4831
Ion Ratio	Lower	Upper	
128	100		
127	8.3	10.0	15.0#
129	9.6	8.7	13.1





#96
 1,2,3-Trichlorobenzene
 Concen: 0.438 ug/l
 RT: 15.847 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN080521.D
 Acq: 19 Dec 2023 15:34

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	180	Resp:	1477
Ion	Ratio	Lower	Upper
180	100		
182	97.6	46.2	138.6
145	37.9	17.5	52.6

