

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011123\
 Data File : VN076202.D
 Acq On : 11 Jan 2023 12:04
 Operator : JC\MD
 Sample : 01084-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MH-2

Quant Time: Jan 12 00:33:08 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N121422W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 14 13:03:41 2022
 Response via : Initial Calibration

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

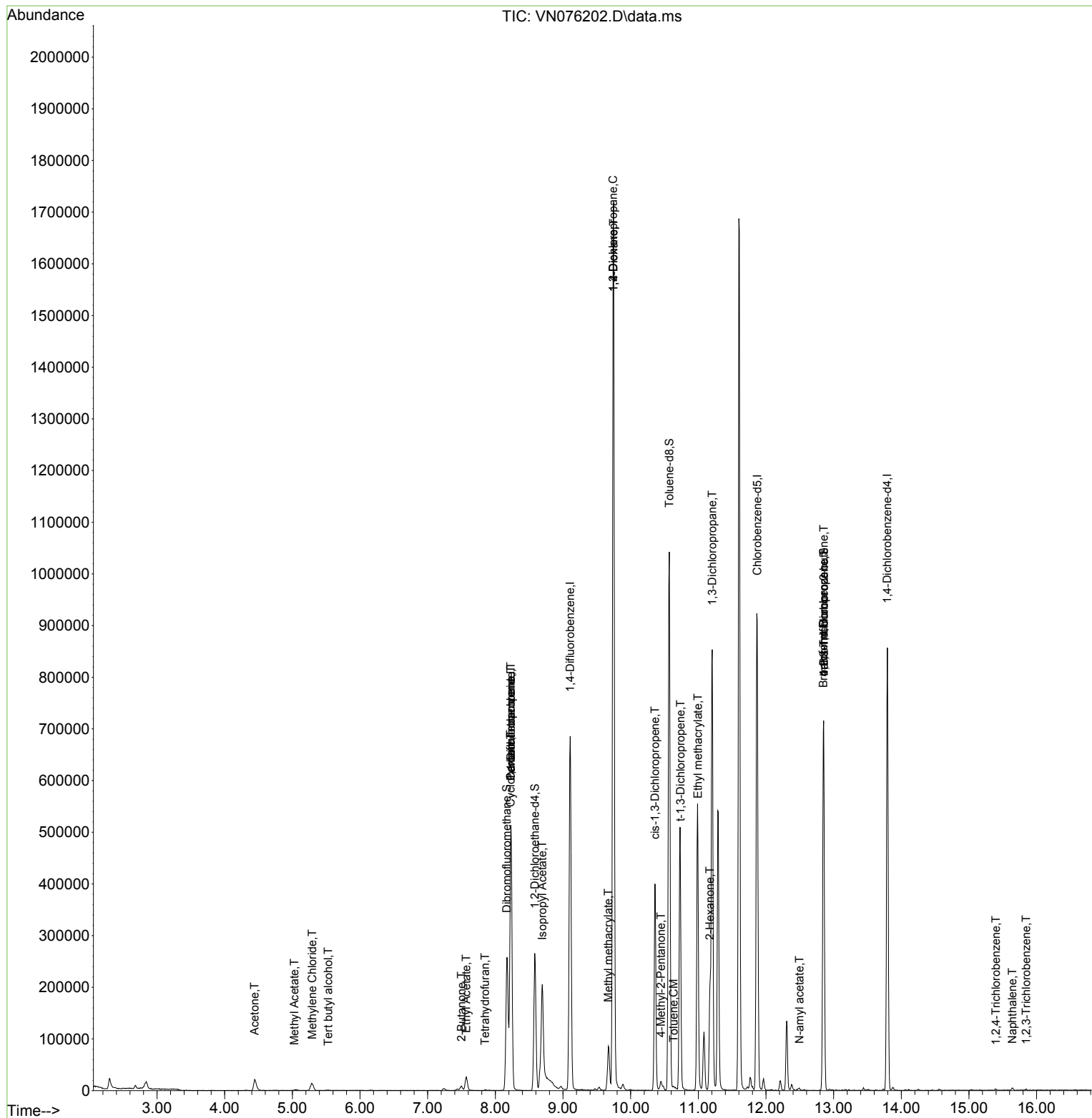
Internal Standards						
1) Pentafluorobenzene	8.229	168	403947	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	639209	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	576029	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	240079	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	205372	46.733	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	93.460%		
35) Dibromofluoromethane	8.171	113	186316	47.067	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	94.140%		
50) Toluene-d8	10.570	98	740079	50.004	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	100.000%		
62) 4-Bromofluorobenzene	12.853	95	240049	48.969	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	97.940%		
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.530	59	919	1.478	ug/l #	72
16) Acetone	4.441	43	39188	25.868	ug/l	97
18) Methyl Acetate	5.030	43	1206	0.269	ug/l #	45
20) Methylene Chloride	5.294	84	12280	2.421	ug/l	92
25) 2-Butanone	7.500	43	12894	6.079	ug/l	94
29) Tetrahydrofuran	7.847	42	697	0.524	ug/l #	31
31) Cyclohexane	8.224	56	7523	1.195	ug/l #	4
36) 1,1-Dichloropropene	8.229	75	28355	5.392	ug/l #	49
37) Ethyl Acetate	7.571	43	38702	9.163	ug/l	98
38) Carbon Tetrachloride	8.229	117	39543	6.719	ug/l #	17
43) Isopropyl Acetate	8.694	43	258576	37.111	ug/l #	78
45) 1,2-Dichloropropane	9.741	63	2223	0.563	ug/l #	43
48) Methyl methacrylate	9.671	41	4644	1.480	ug/l #	37
49) 1,4-Dioxane	9.747	88	223	2.890	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	17025	4.040	ug/l #	74
52) Toluene	10.635	92	2246	0.213	ug/l	98
53) t-1,3-Dichloropropene	10.735	75	1371	0.244	ug/l #	86
54) cis-1,3-Dichloropropene	10.359	75	76614	12.413	ug/l #	62
56) Ethyl methacrylate	10.994	69	1672	0.304	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	9595	1.410	ug/l #	42
59) 2-Hexanone	11.170	43	150220	48.885	ug/l #	20
71) Bromoform	12.847	173	972	0.305	ug/l #	1
74) N-amyl acetate	12.494	43	3205	0.630	ug/l #	45
76) 1,2,3-Trichloropropane	12.853	75	126082	26.053	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	126082	93.778	ug/l #	12
93) 1,2,4-Trichlorobenzene	15.400	180	1020	0.258	ug/l	90
95) Naphthalene	15.641	128	5320	2.567	ug/l #	89
96) 1,2,3-Trichlorobenzene	15.847	180	916	0.248	ug/l	91

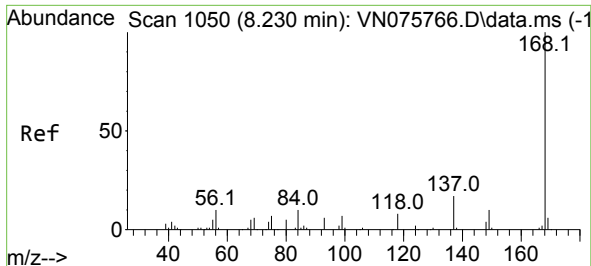
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

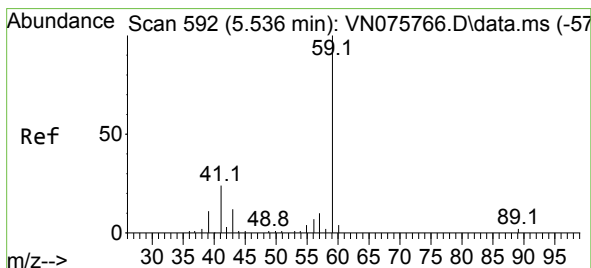
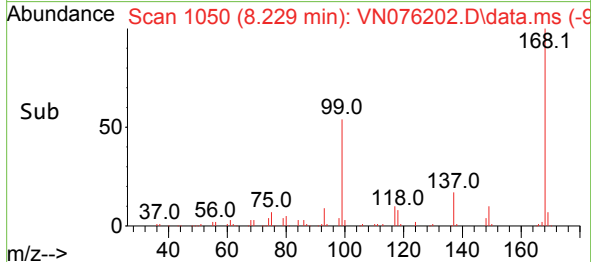
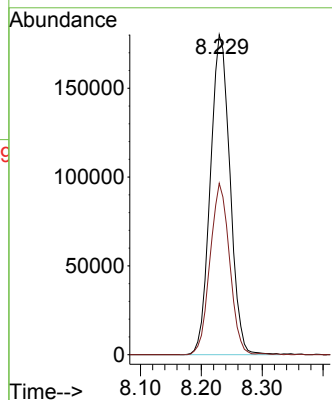
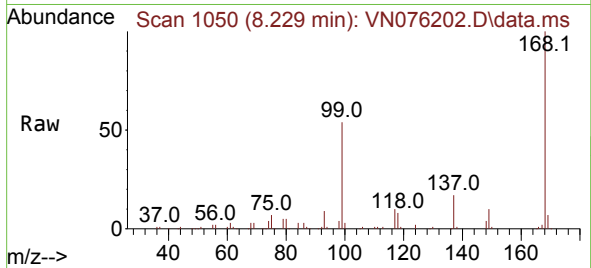




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 1050
Delta R.T. -0.001 min
Lab File: VN076202.D
Acq: 11 Jan 2023 12:04

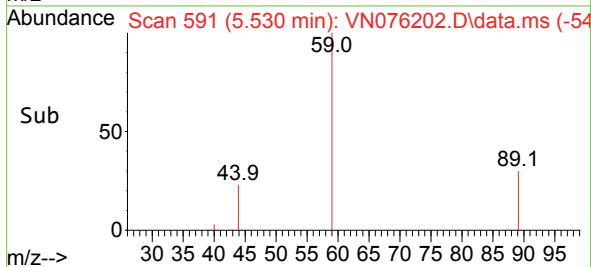
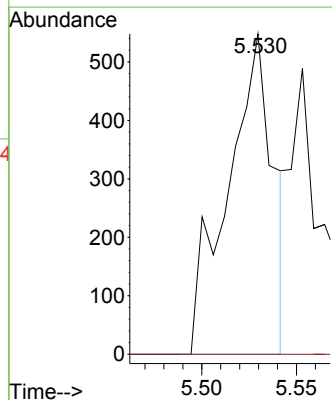
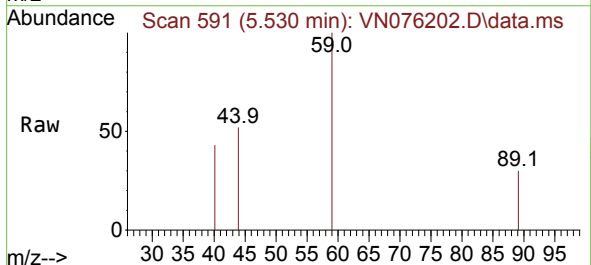
Instrument :
MSVOA_N
ClientSampleId :
MH-2

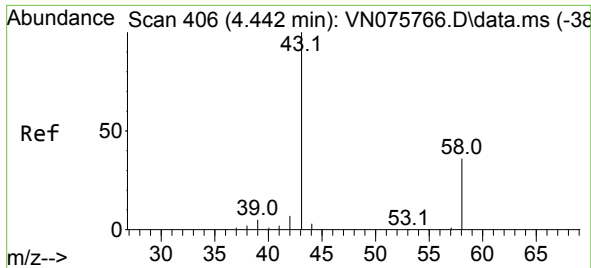
Tgt Ion:168 Resp: 403947
Ion Ratio Lower Upper
168 100
99 53.6 44.2 66.4



#11
Tert butyl alcohol
Concen: 1.478 ug/l
RT: 5.530 min Scan# 591
Delta R.T. -0.006 min
Lab File: VN076202.D
Acq: 11 Jan 2023 12:04

Tgt Ion: 59 Resp: 919
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#





#16

Acetone

Concen: 25.868 ug/l

RT: 4.441 min Scan# 406

Delta R.T. -0.000 min

Lab File: VN076202.D

Acq: 11 Jan 2023 12:04

Instrument :

MSVOA_N

ClientSampleId :

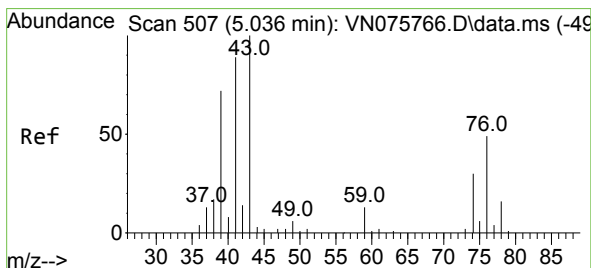
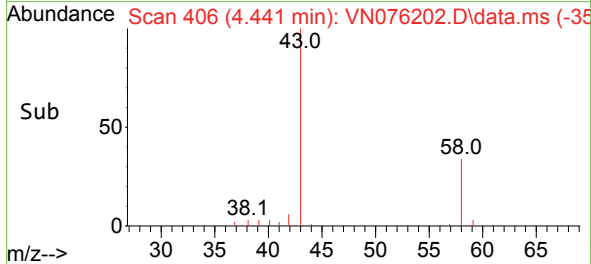
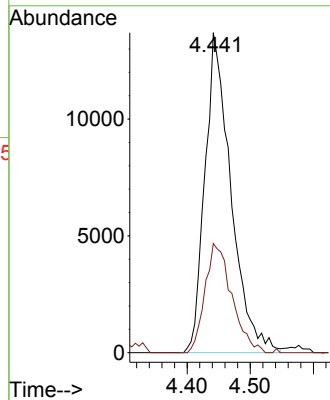
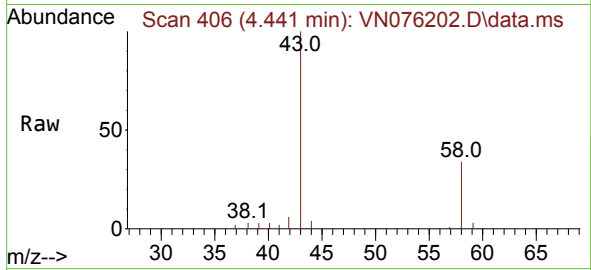
MH-2

Tgt Ion: 43 Resp: 39188

Ion Ratio Lower Upper

43 100

58 34.1 28.6 43.0



#18

Methyl Acetate

Concen: 0.269 ug/l

RT: 5.030 min Scan# 506

Delta R.T. -0.006 min

Lab File: VN076202.D

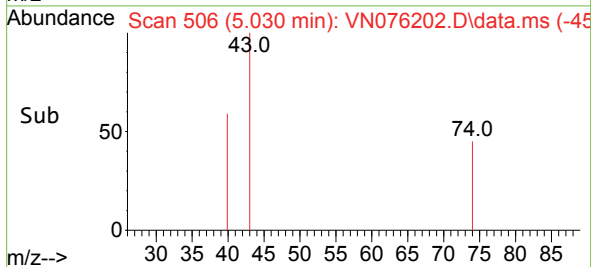
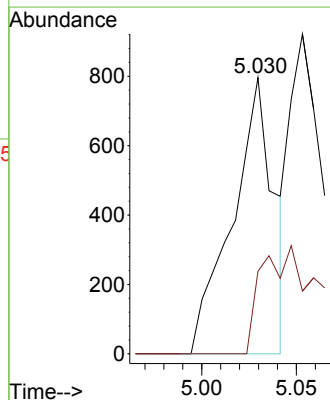
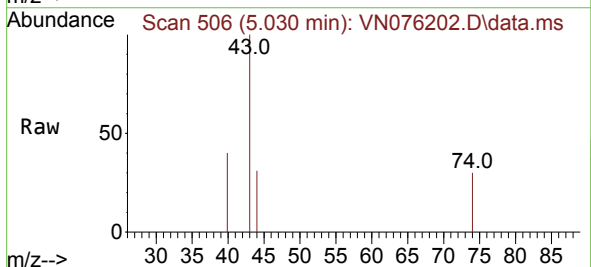
Acq: 11 Jan 2023 12:04

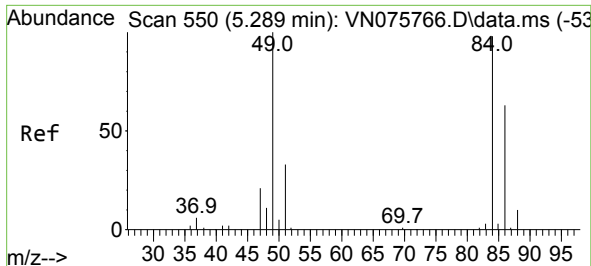
Tgt Ion: 43 Resp: 1206

Ion Ratio Lower Upper

43 100

74 0.0 23.6 35.4#



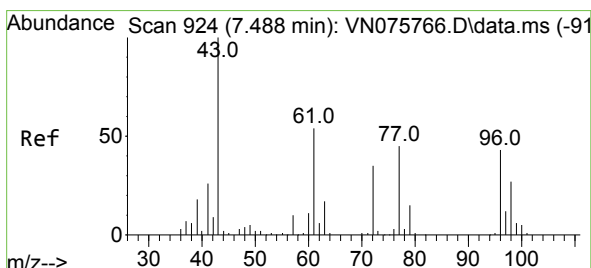
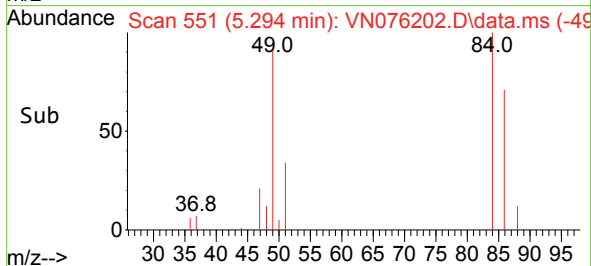
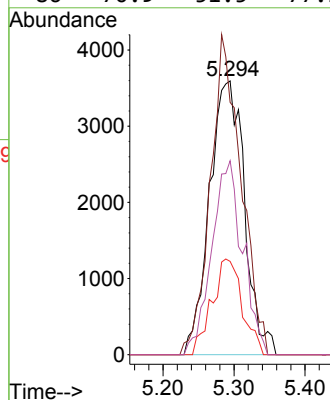
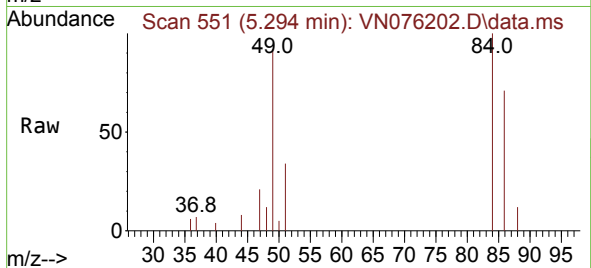


#20
Methylene Chloride
Concen: 2.421 ug/l
RT: 5.294 min Scan# 511
Delta R.T. 0.005 min
Lab File: VN076202.D
Acq: 11 Jan 2023 12:04

Instrument :
MSVOA_N
ClientSampleId :
MH-2

Tgt Ion: 84 Resp: 12280

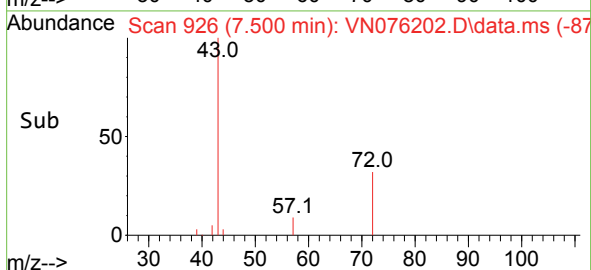
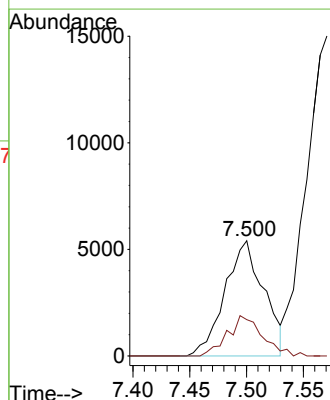
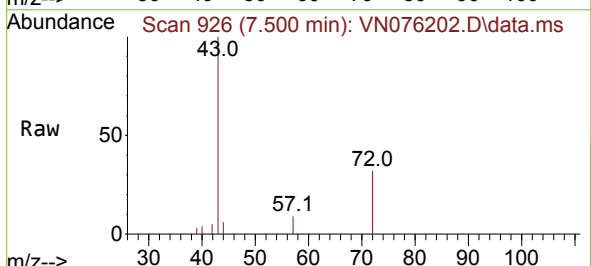
Ion	Ratio	Lower	Upper
84	100		
49	92.2	81.8	122.6
51	34.1	26.7	40.1
86	70.9	51.5	77.3

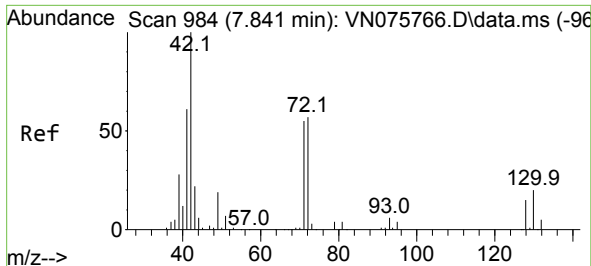


#25
2-Butanone
Concen: 6.079 ug/l
RT: 7.500 min Scan# 926
Delta R.T. 0.012 min
Lab File: VN076202.D
Acq: 11 Jan 2023 12:04

Tgt Ion: 43 Resp: 12894

Ion	Ratio	Lower	Upper
43	100		
72	31.6	28.0	42.0

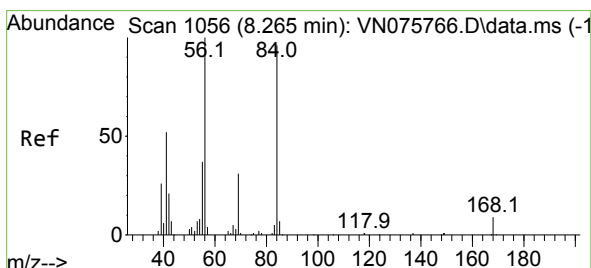
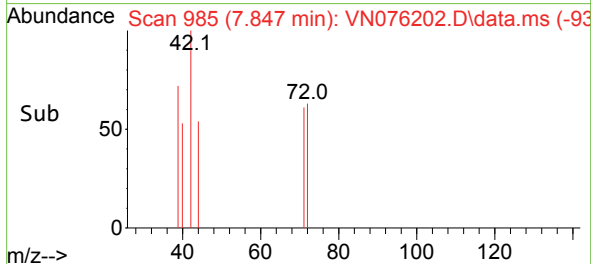
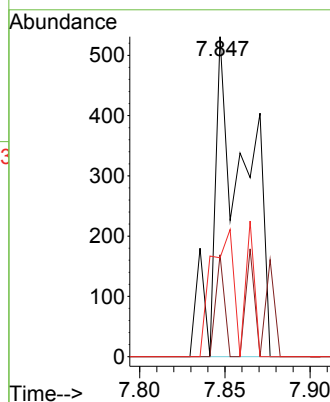
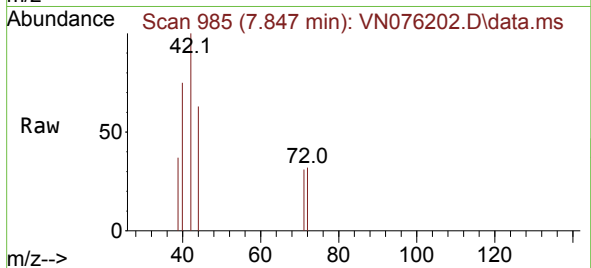




#29
Tetrahydrofuran
Concen: 0.524 ug/l
RT: 7.847 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN076202.D
Acq: 11 Jan 2023 12:04

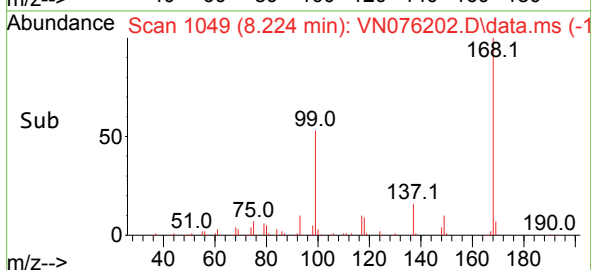
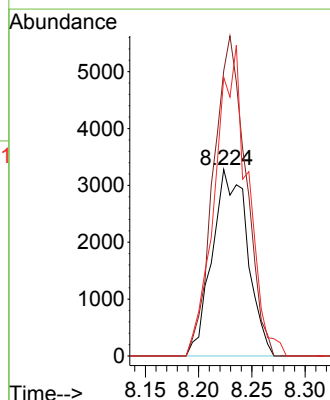
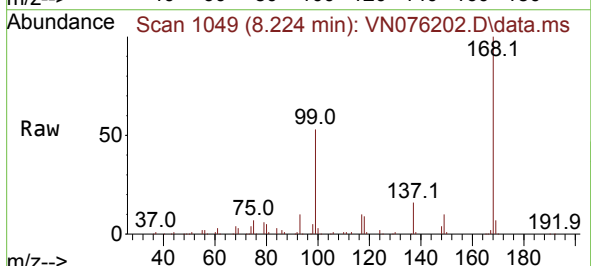
Instrument :
MSVOA_N
ClientSampleId :
MH-2

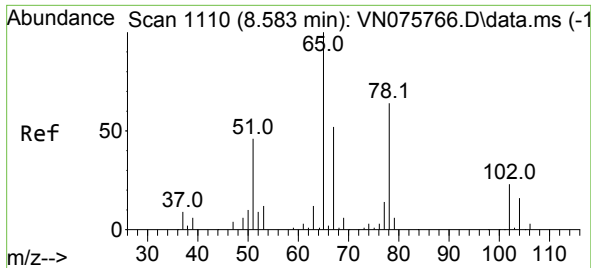
Tgt Ion:	42	Resp:	697
Ion	Ratio	Lower	Upper
42	100		
72	8.6	44.5	66.7#
71	0.0	41.0	61.6#



#31
Cyclohexane
Concen: 1.195 ug/l
RT: 8.224 min Scan# 1049
Delta R.T. -0.041 min
Lab File: VN076202.D
Acq: 11 Jan 2023 12:04

Tgt Ion:	56	Resp:	7523
Ion	Ratio	Lower	Upper
56	100		
69	152.8	24.7	37.1#
84	149.3	76.5	114.7#





#33

1,2-Dichloroethane-d4

Concen: 46.733 ug/l

RT: 8.582 min Scan# 1110

Delta R.T. -0.000 min

Lab File: VN076202.D

Acq: 11 Jan 2023 12:04

Instrument :

MSVOA_N

ClientSampleId :

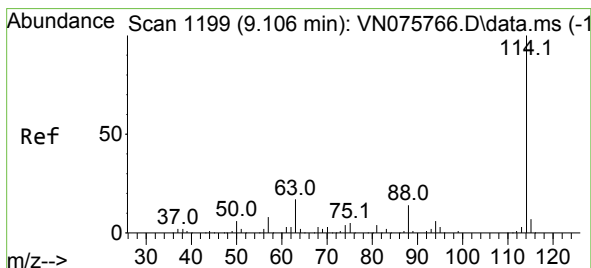
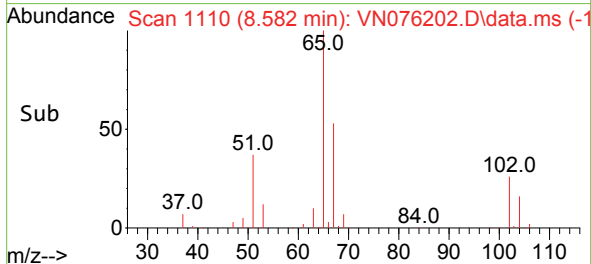
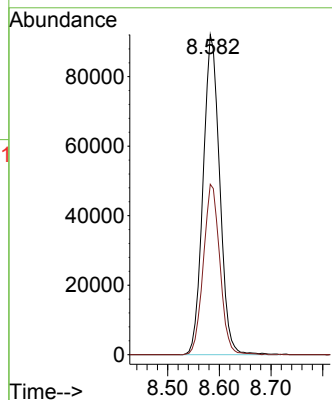
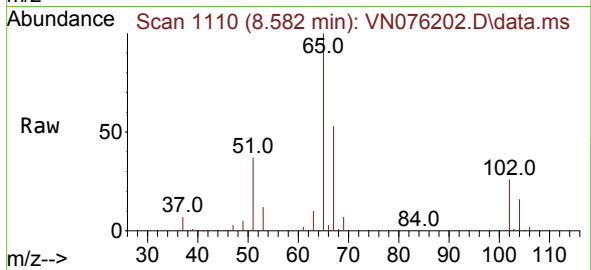
MH-2

Tgt Ion: 65 Resp: 205372

Ion Ratio Lower Upper

65 100

67 53.0 0.0 103.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1199

Delta R.T. -0.000 min

Lab File: VN076202.D

Acq: 11 Jan 2023 12:04

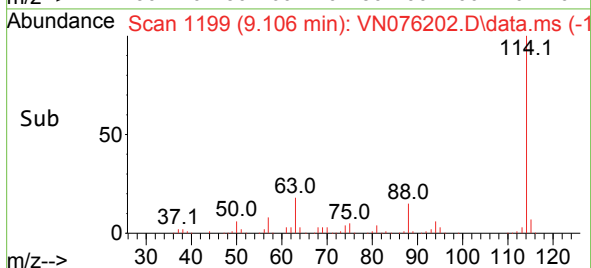
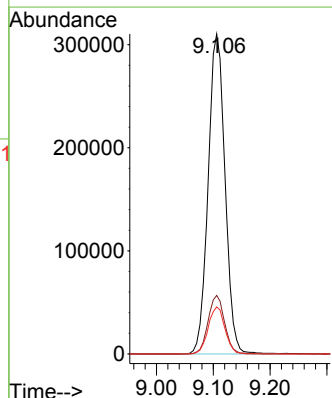
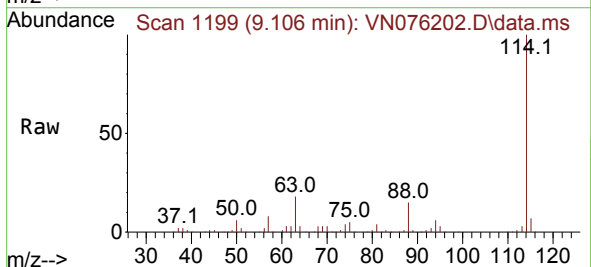
Tgt Ion: 114 Resp: 639209

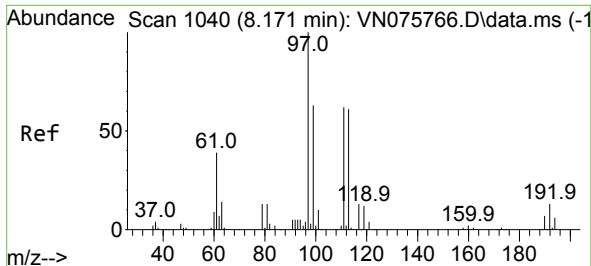
Ion Ratio Lower Upper

114 100

63 18.3 0.0 34.4

88 14.7 0.0 28.8





#35

Dibromofluoromethane

Concen: 47.067 ug/l

RT: 8.171 min Scan# 1040

Delta R.T. -0.000 min

Lab File: VN076202.D

Acq: 11 Jan 2023 12:04

Instrument :

MSVOA_N

ClientSampleId :

MH-2

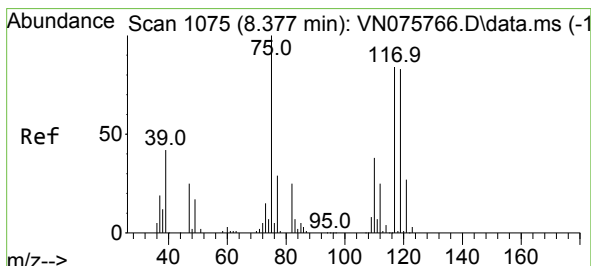
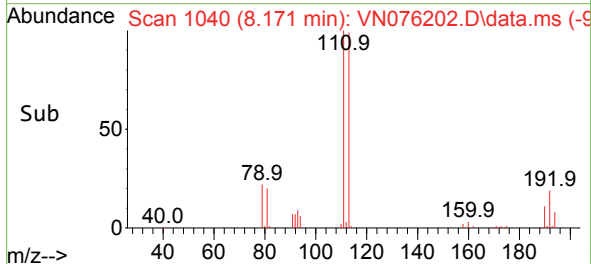
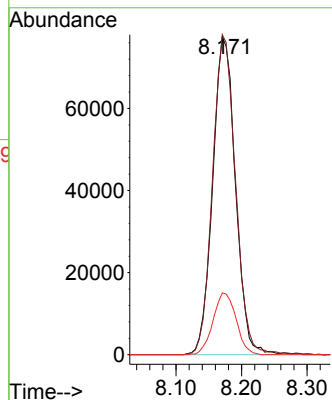
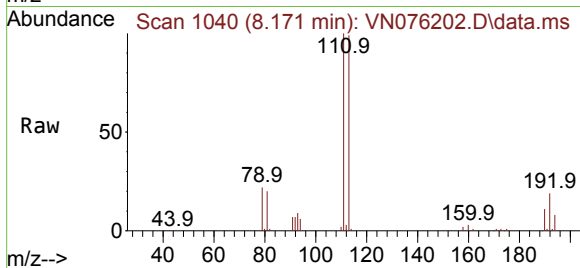
Tgt Ion:113 Resp: 186316

Ion Ratio Lower Upper

113 100

111 101.4 83.4 125.2

192 19.7 16.1 24.1



#36

1,1-Dichloropropene

Concen: 5.392 ug/l

RT: 8.229 min Scan# 1050

Delta R.T. -0.147 min

Lab File: VN076202.D

Acq: 11 Jan 2023 12:04

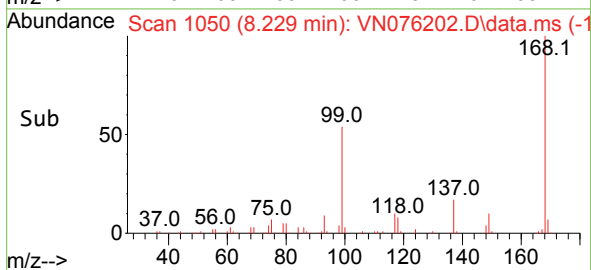
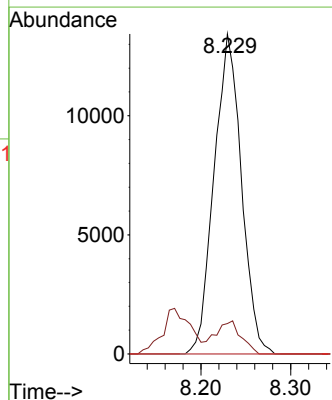
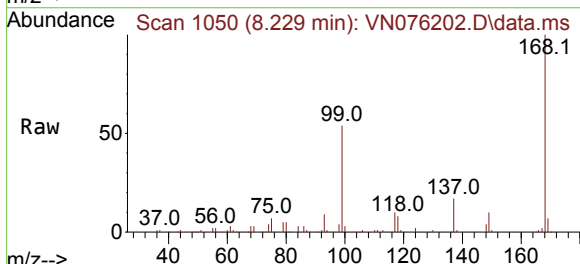
Tgt Ion: 75 Resp: 28355

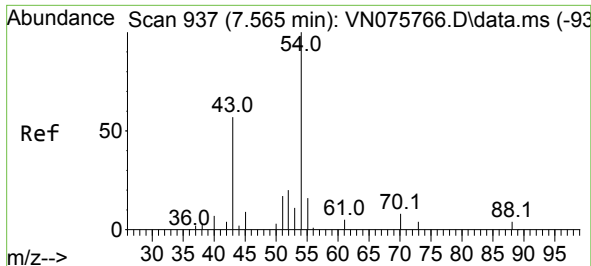
Ion Ratio Lower Upper

75 100

110 9.4 18.8 56.4#

77 0.0 24.1 36.1#

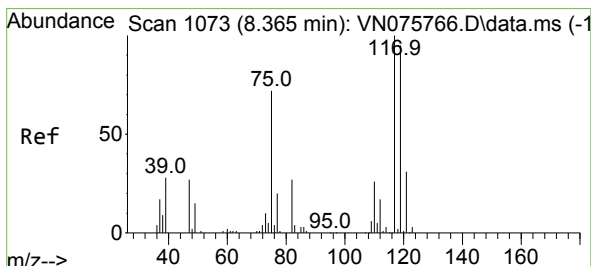
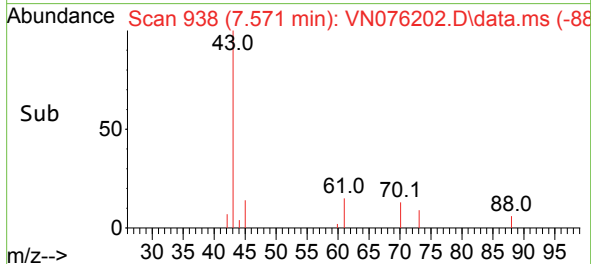
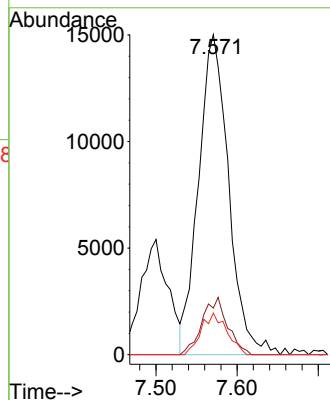
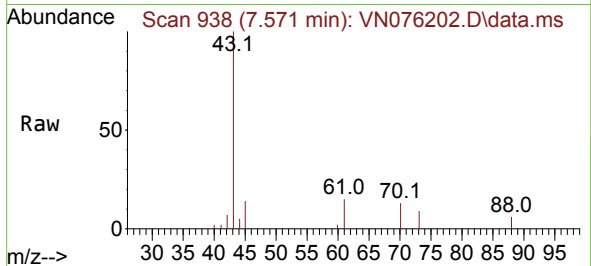




#37
Ethyl Acetate
Concen: 9.163 ug/l
RT: 7.571 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN076202.D
Acq: 11 Jan 2023 12:04

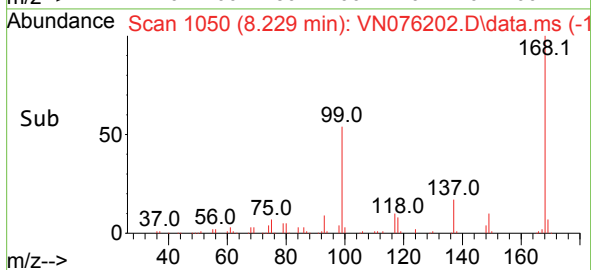
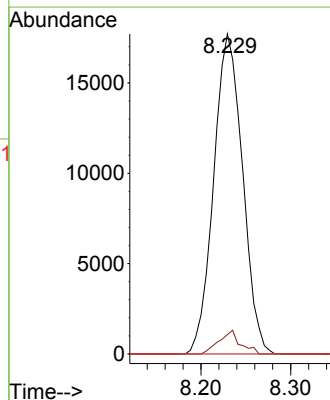
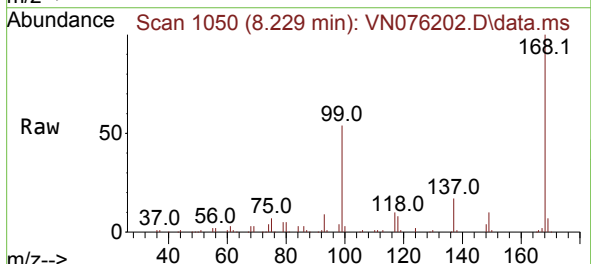
Instrument :
MSVOA_N
ClientSampleId :
MH-2

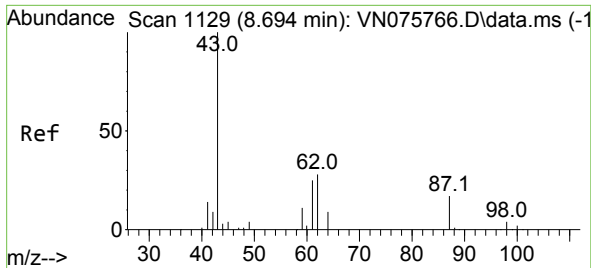
Tgt Ion: 43	Resp: 38702
Ion Ratio	Lower Upper
43 100	
61 15.2	13.0 19.4
70 11.0	9.4 14.0



#38
Carbon Tetrachloride
Concen: 6.719 ug/l
RT: 8.229 min Scan# 1050
Delta R.T. -0.135 min
Lab File: VN076202.D
Acq: 11 Jan 2023 12:04

Tgt Ion: 117	Resp: 39543
Ion Ratio	Lower Upper
117 100	
119 6.1	76.1 114.1#
121 0.0	24.5 36.7#

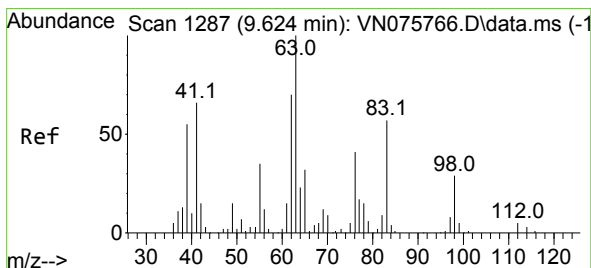
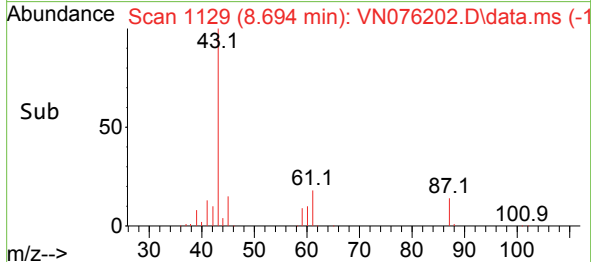
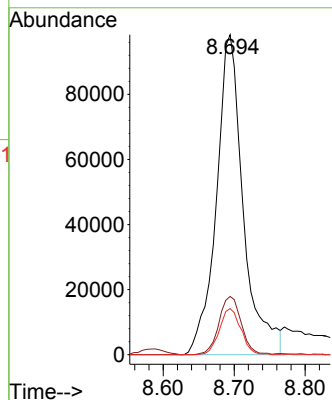
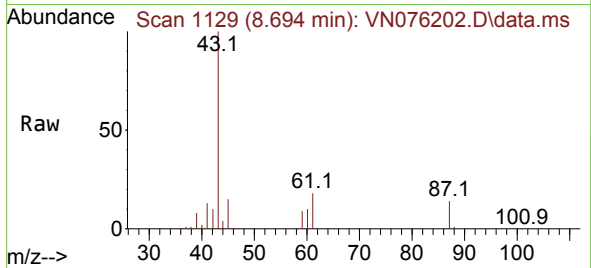




#43
Isopropyl Acetate
Concen: 37.111 ug/l
RT: 8.694 min Scan# 1129
Delta R.T. -0.000 min
Lab File: VN076202.D
Acq: 11 Jan 2023 12:04

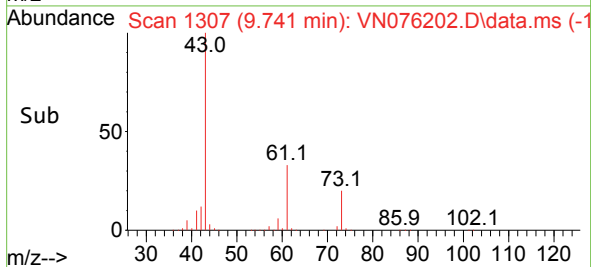
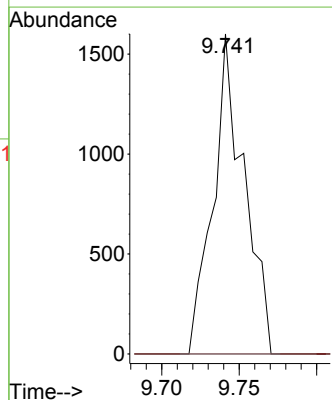
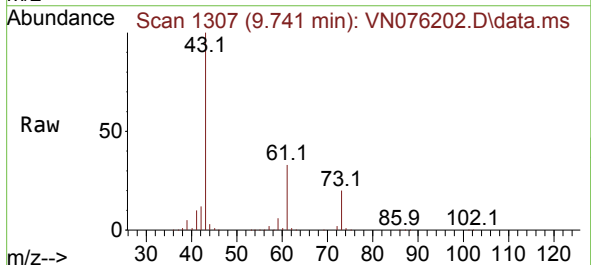
Instrument :
MSVOA_N
ClientSampleId :
MH-2

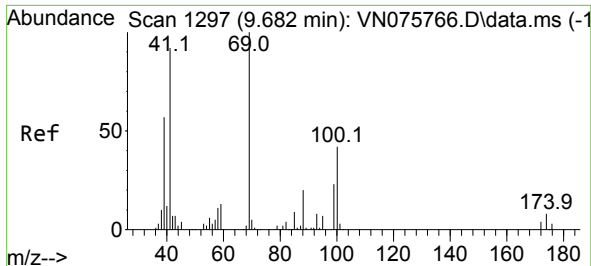
Tgt Ion: 43 Resp: 258576
Ion Ratio Lower Upper
43 100
61 15.1 24.2 36.4#
87 11.4 13.3 19.9#



#45
1,2-Dichloropropane
Concen: 0.563 ug/l
RT: 9.741 min Scan# 1307
Delta R.T. 0.117 min
Lab File: VN076202.D
Acq: 11 Jan 2023 12:04

Tgt Ion: 63 Resp: 2223
Ion Ratio Lower Upper
63 100
65 0.0 25.7 38.5#

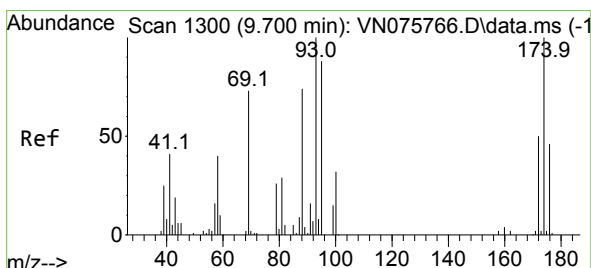
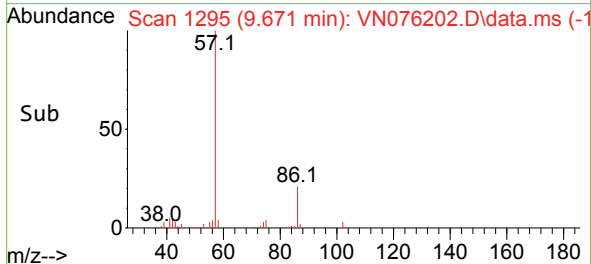
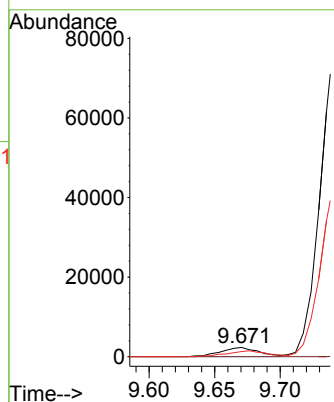
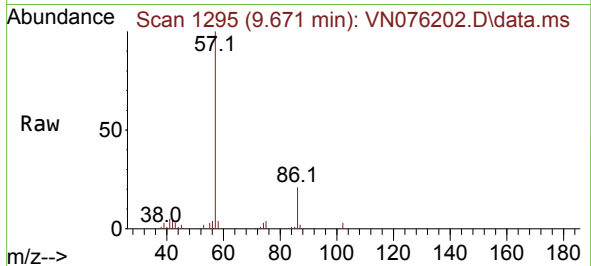




#48
Methyl methacrylate
Concen: 1.480 ug/l
RT: 9.671 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN076202.D
Acq: 11 Jan 2023 12:04

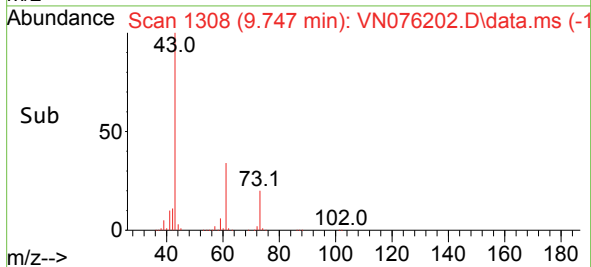
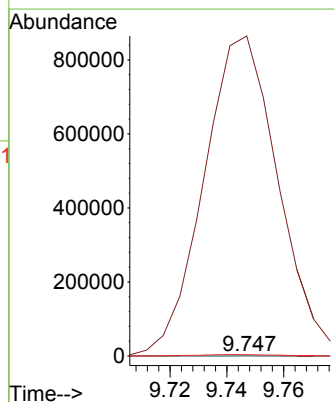
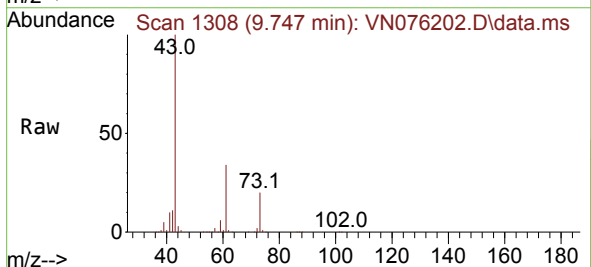
Instrument :
MSVOA_N
ClientSampleId :
MH-2

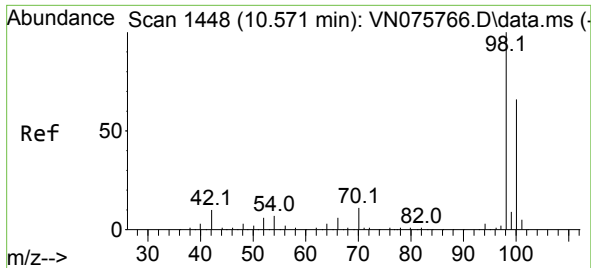
Tgt Ion: 41 Resp: 4644
Ion Ratio Lower Upper
41 100
69 0.0 81.9 122.9#
39 66.5 51.6 77.4



#49
1,4-Dioxane
Concen: 2.890 ug/l
RT: 9.747 min Scan# 1308
Delta R.T. 0.047 min
Lab File: VN076202.D
Acq: 11 Jan 2023 12:04

Tgt Ion: 88 Resp: 223
Ion Ratio Lower Upper
88 100
43 712485.2 17.1 25.7#
58 3352.5 47.8 71.8#

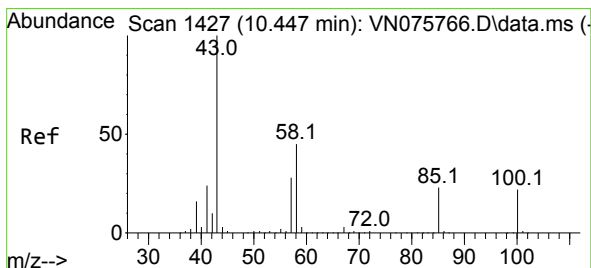
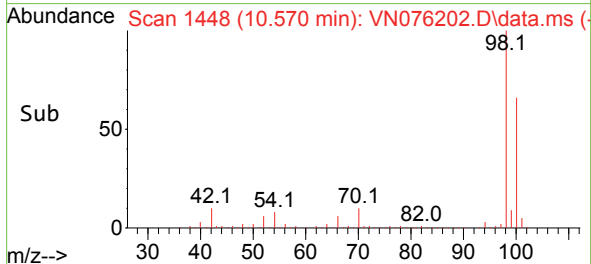
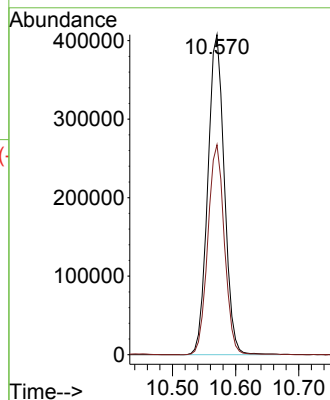
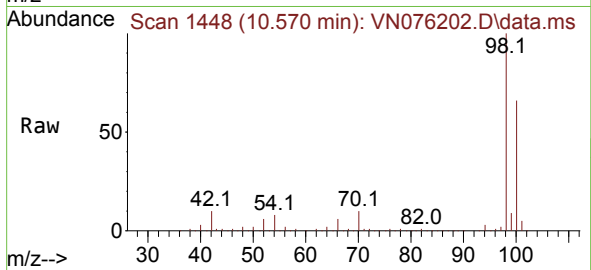




#50
Toluene-d8
Concen: 50.004 ug/l
RT: 10.570 min Scan# 1448
Delta R.T. -0.000 min
Lab File: VN076202.D
Acq: 11 Jan 2023 12:04

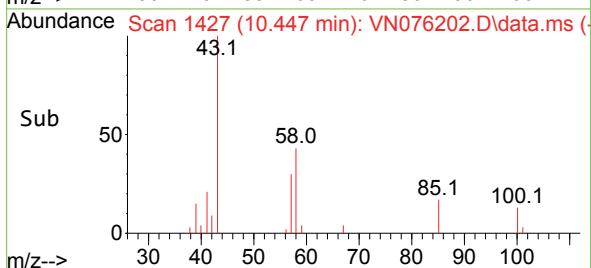
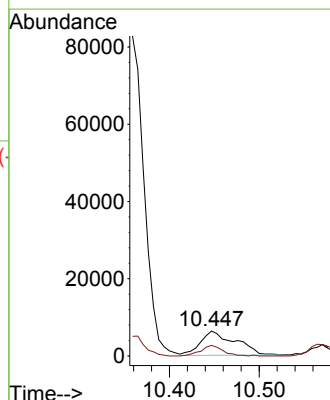
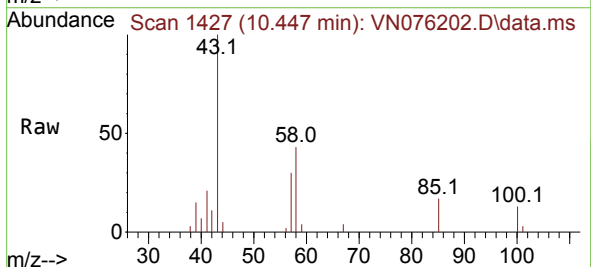
Instrument :
MSVOA_N
ClientSampleId :
MH-2

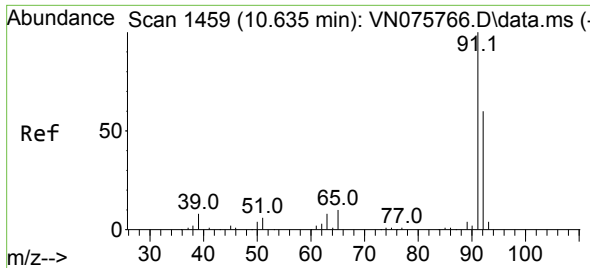
Tgt Ion: 98 Resp: 740079
Ion Ratio Lower Upper
98 100
100 65.9 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 4.040 ug/l
RT: 10.447 min Scan# 1427
Delta R.T. -0.000 min
Lab File: VN076202.D
Acq: 11 Jan 2023 12:04

Tgt Ion: 43 Resp: 17025
Ion Ratio Lower Upper
43 100
58 27.8 35.5 53.3#

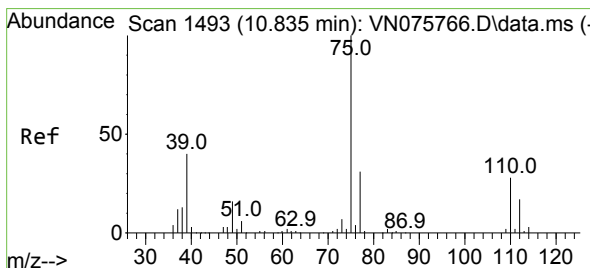
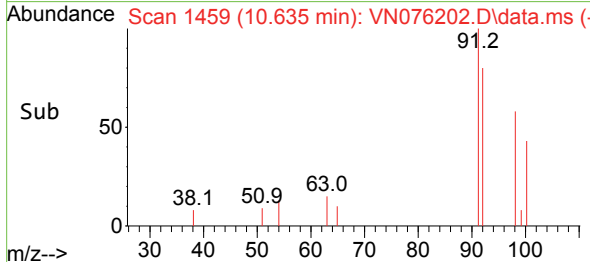
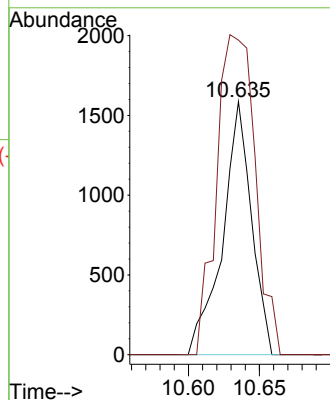
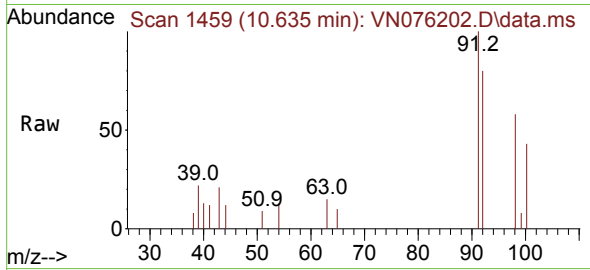




#52
Toluene
Concen: 0.213 ug/l
RT: 10.635 min Scan# 1459
Delta R.T. -0.000 min
Lab File: VN076202.D
Acq: 11 Jan 2023 12:04

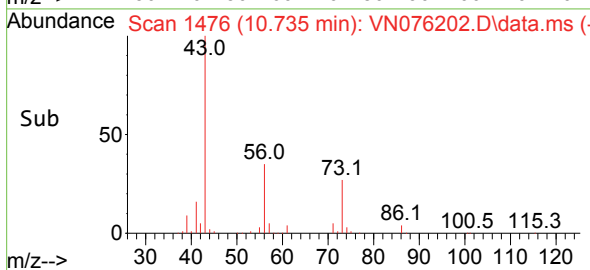
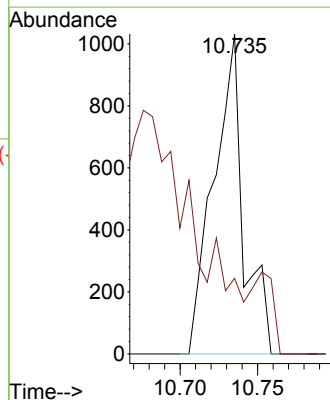
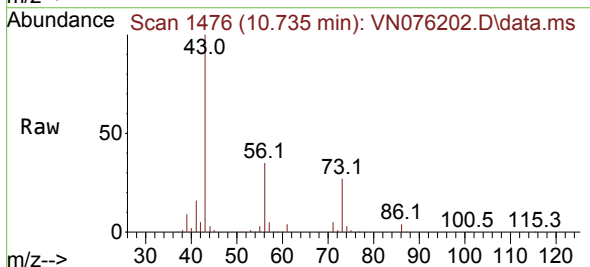
Instrument :
MSVOA_N
ClientSampleId :
MH-2

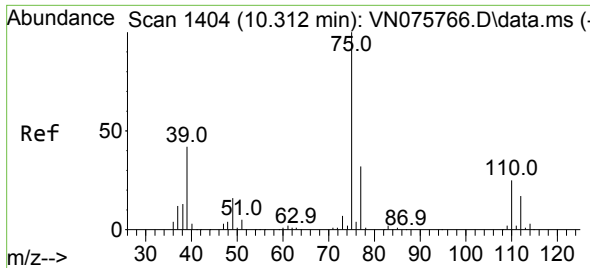
Tgt Ion: 92 Resp: 2246
Ion Ratio Lower Upper
92 100
91 169.2 137.3 205.9



#53
t-1,3-Dichloropropene
Concen: 0.244 ug/l
RT: 10.735 min Scan# 1476
Delta R.T. -0.100 min
Lab File: VN076202.D
Acq: 11 Jan 2023 12:04

Tgt Ion: 75 Resp: 1371
Ion Ratio Lower Upper
75 100
77 23.6 24.9 37.3#

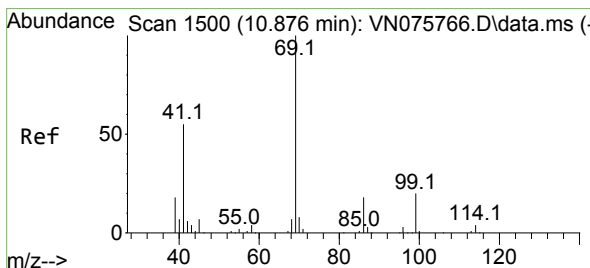
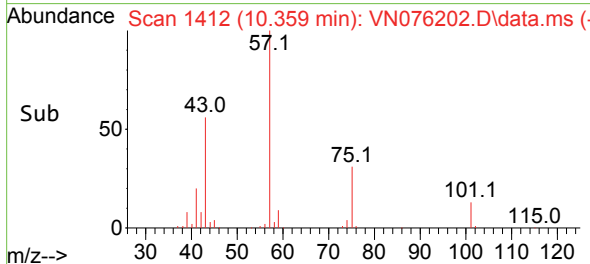
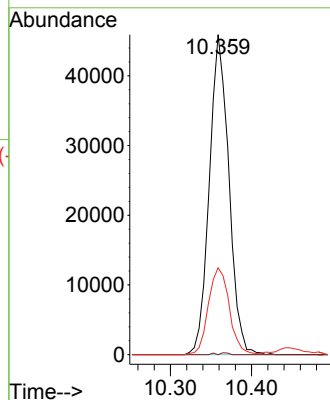
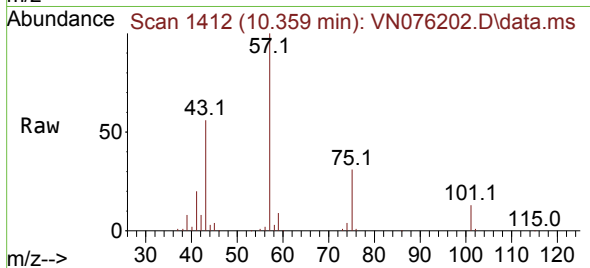




#54
 cis-1,3-Dichloropropene
 Concen: 12.413 ug/l
 RT: 10.359 min Scan# 1412
 Delta R.T. 0.047 min
 Lab File: VN076202.D
 Acq: 11 Jan 2023 12:04

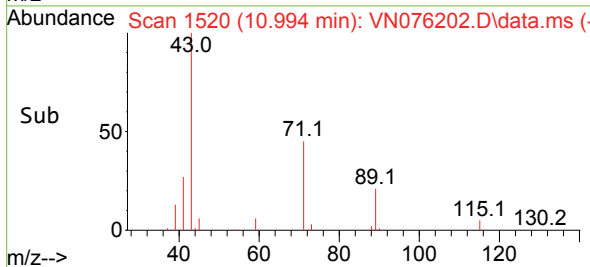
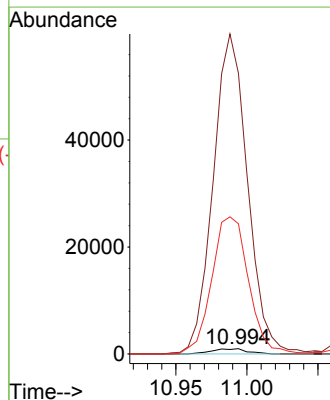
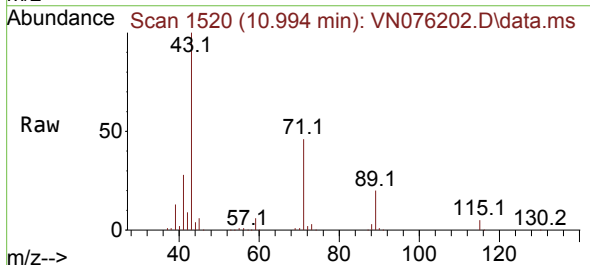
Instrument :
 MSVOA_N
 ClientSampleId :
 MH-2

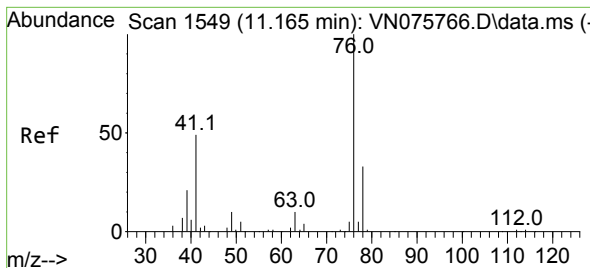
Tgt Ion: 75 Resp: 76614
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.8 38.8#
 39 27.1 33.4 50.2#



#56
 Ethyl methacrylate
 Concen: 0.304 ug/l
 RT: 10.994 min Scan# 1520
 Delta R.T. 0.117 min
 Lab File: VN076202.D
 Acq: 11 Jan 2023 12:04

Tgt Ion: 69 Resp: 1672
 Ion Ratio Lower Upper
 69 100
 41 6039.9 44.2 66.4#
 39 2762.6 26.4 39.6#





#57

1,3-Dichloropropane

Concen: 1.410 ug/l

RT: 11.206 min Scan# 1556

Delta R.T. 0.041 min

Lab File: VN076202.D

Acq: 11 Jan 2023 12:04

Instrument :

MSVOA_N

ClientSampleId :

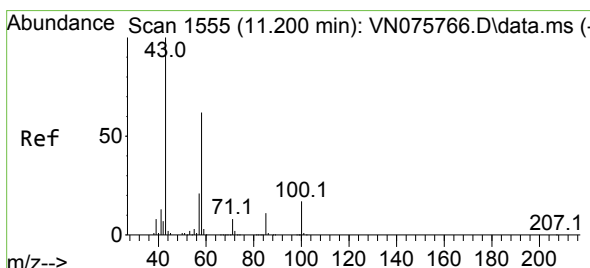
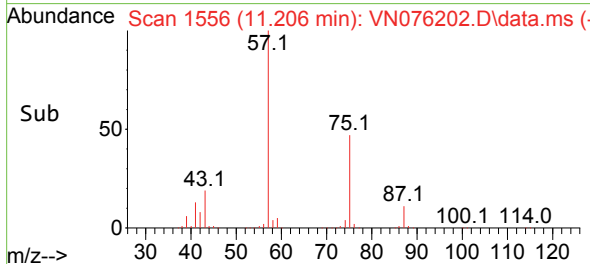
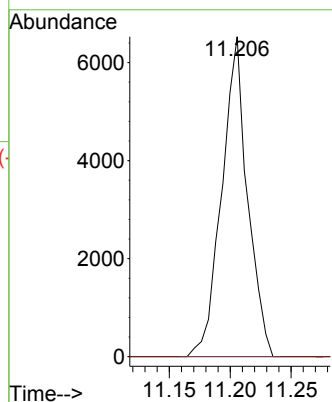
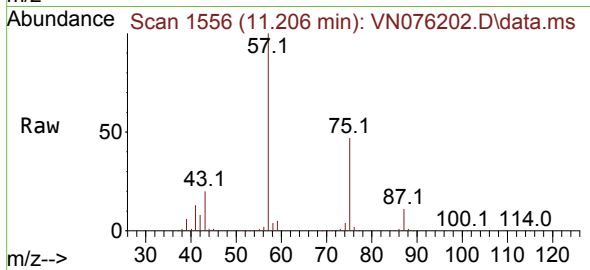
MH-2

Tgt Ion: 76 Resp: 9595

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.2#



#59

2-Hexanone

Concen: 48.885 ug/l

RT: 11.170 min Scan# 1550

Delta R.T. -0.030 min

Lab File: VN076202.D

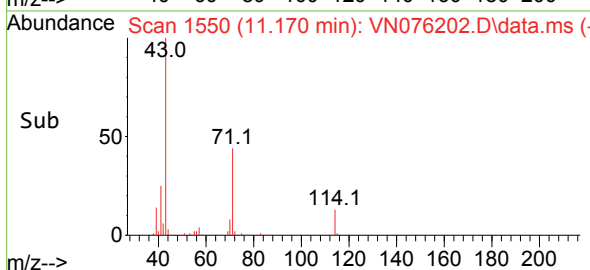
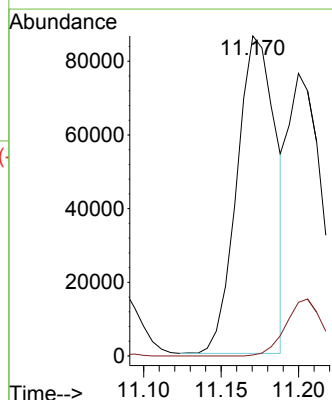
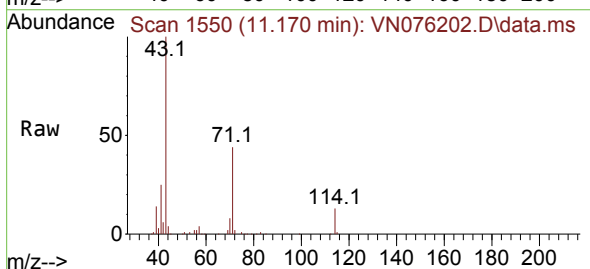
Acq: 11 Jan 2023 12:04

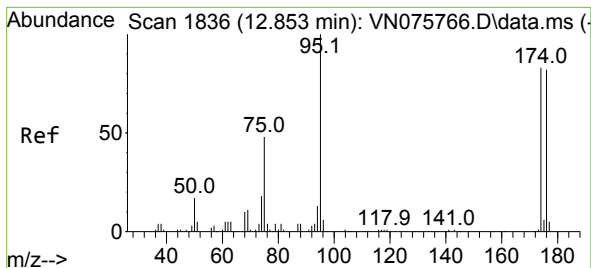
Tgt Ion: 43 Resp: 150220

Ion Ratio Lower Upper

43 100

58 0.0 30.6 92.0#

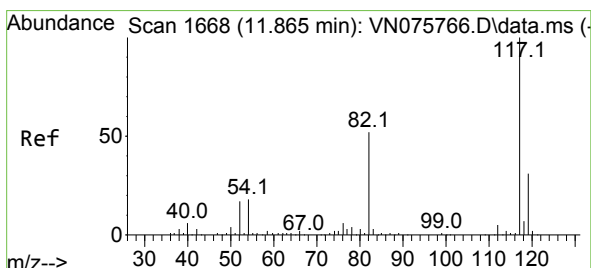
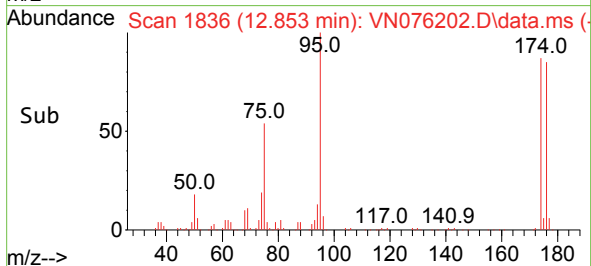
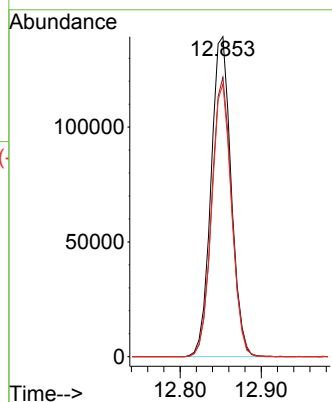
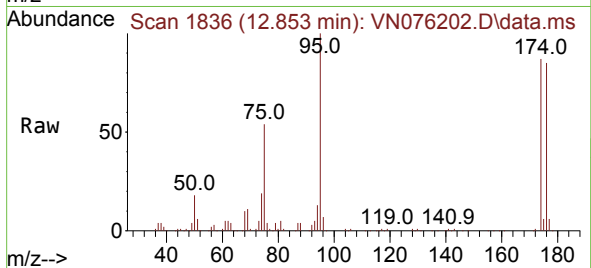




#62
4-Bromofluorobenzene
Concen: 48.969 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.000 min
Lab File: VN076202.D
Acq: 11 Jan 2023 12:04

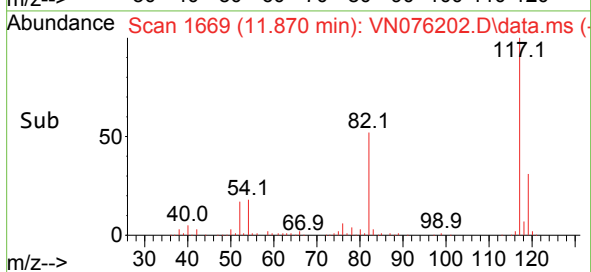
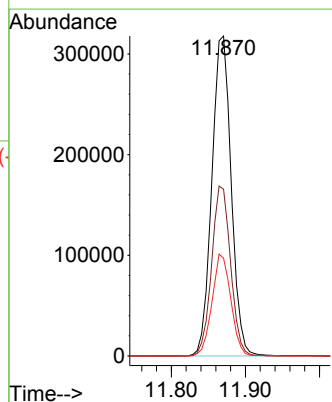
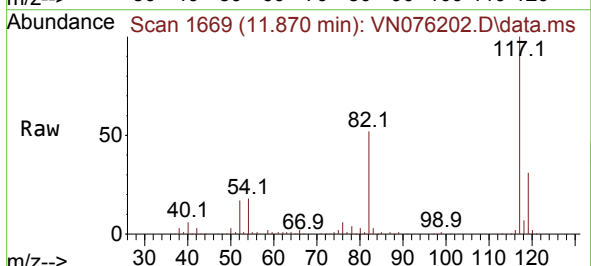
Instrument :
MSVOA_N
ClientSampleId :
MH-2

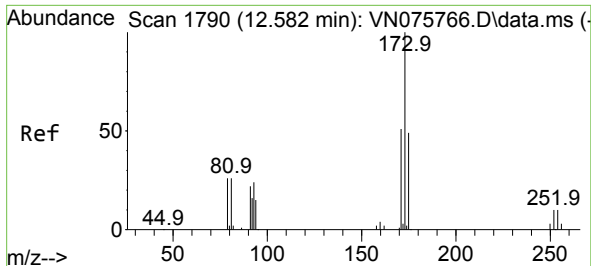
Tgt Ion: 95 Resp: 240049
Ion Ratio Lower Upper
95 100
174 86.4 0.0 171.6
176 84.0 0.0 169.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1669
Delta R.T. 0.006 min
Lab File: VN076202.D
Acq: 11 Jan 2023 12:04

Tgt Ion: 117 Resp: 576029
Ion Ratio Lower Upper
117 100
82 52.1 41.3 61.9
119 30.5 24.6 37.0

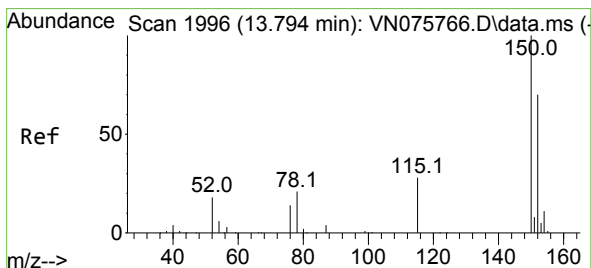
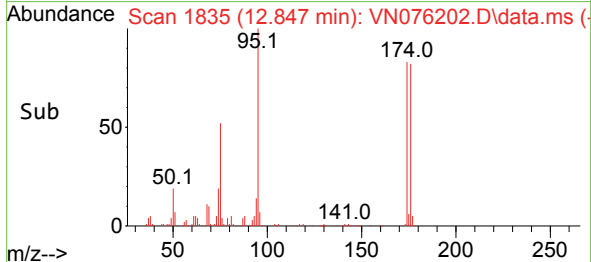
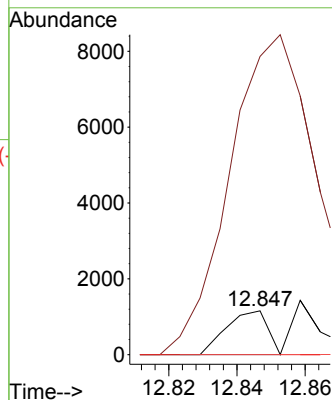
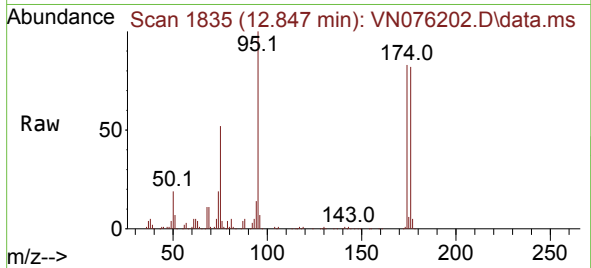




#71
Bromoform
Concen: 0.305 ug/l
RT: 12.847 min Scan# 1835
Delta R.T. 0.265 min
Lab File: VN076202.D
Acq: 11 Jan 2023 12:04

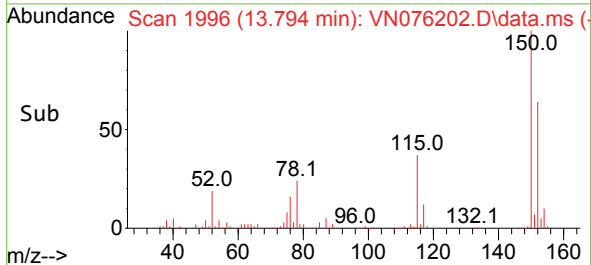
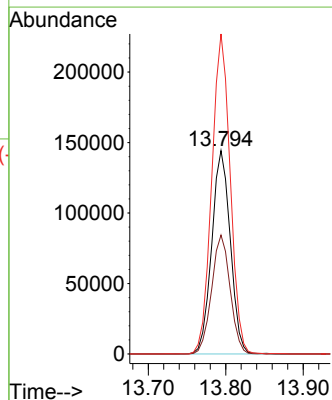
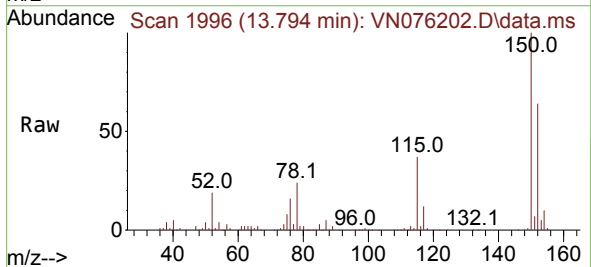
Instrument :
MSVOA_N
ClientSampleId :
MH-2

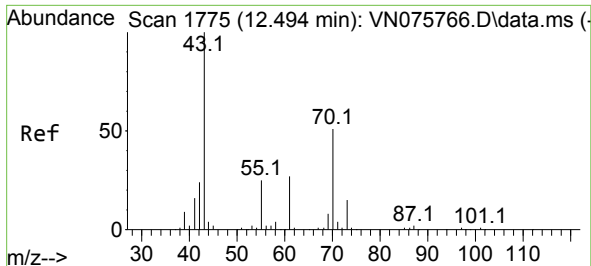
Tgt Ion:173 Resp: 972
Ion Ratio Lower Upper
173 100
175 1265.8 24.3 72.8#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 1996
Delta R.T. -0.000 min
Lab File: VN076202.D
Acq: 11 Jan 2023 12:04

Tgt Ion:152 Resp: 240079
Ion Ratio Lower Upper
152 100
115 58.3 29.1 87.4
150 156.1 0.0 347.0

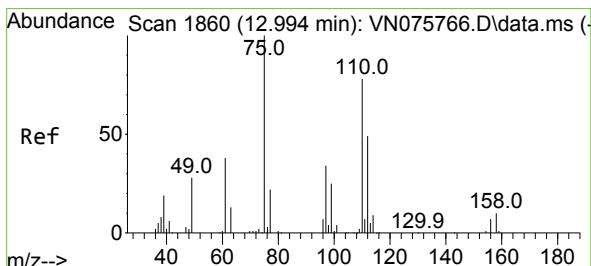
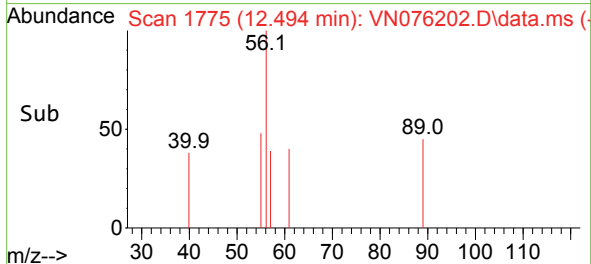
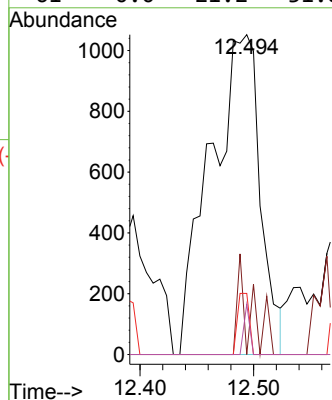
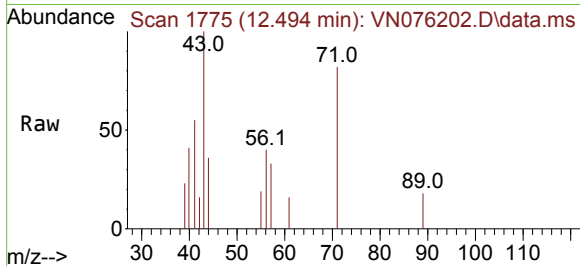




#74
N-amy1 acetate
Concen: 0.630 ug/l
RT: 12.494 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN076202.D
Acq: 11 Jan 2023 12:04

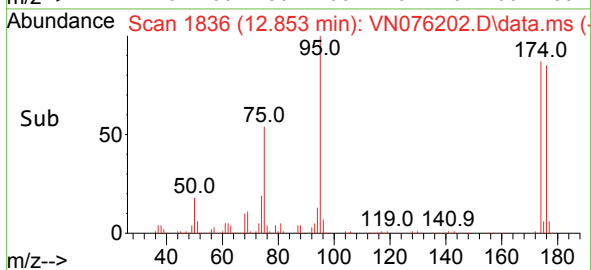
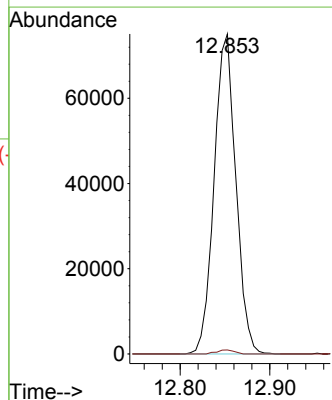
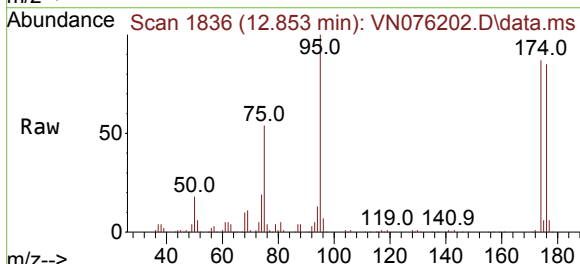
Instrument :
MSVOA_N
ClientSampleId :
MH-2

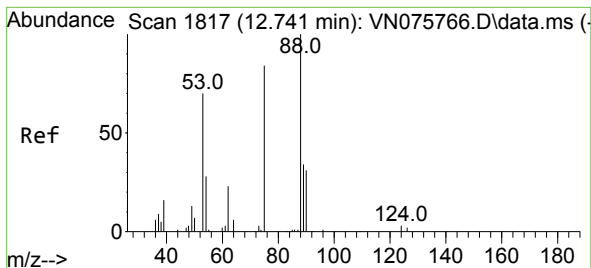
Tgt Ion: 43	Resp: 3205
Ion Ratio	Lower Upper
43 100	
70 8.3	41.4 62.0#
55 4.4	21.3 31.9#
61 0.0	21.2 31.8#



#76
1,2,3-Trichloropropane
Concen: 26.053 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.141 min
Lab File: VN076202.D
Acq: 11 Jan 2023 12:04

Tgt Ion: 75	Resp: 126082
Ion Ratio	Lower Upper
75 100	
77 1.0	82.6 247.8#

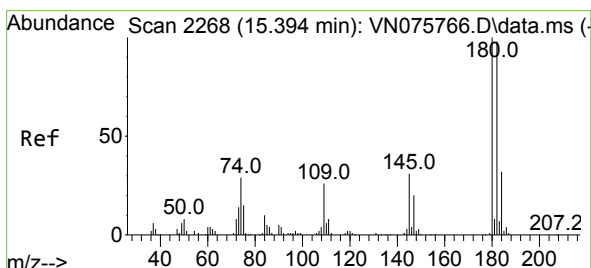
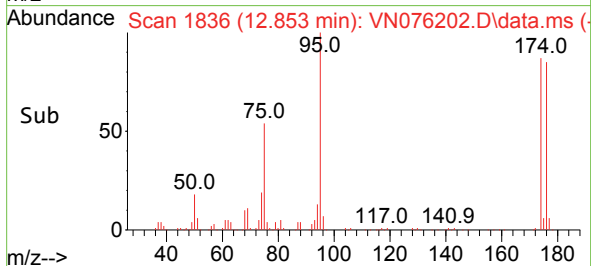
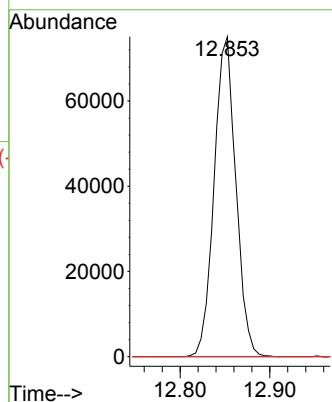
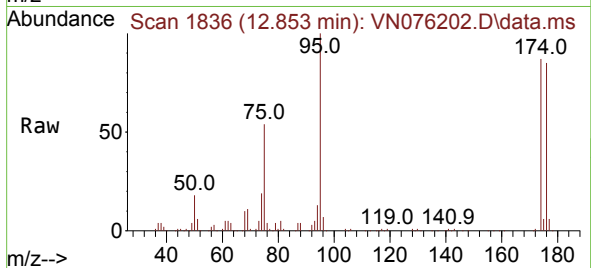




#81
trans-1,4-Dichloro-2-butene
Concen: 93.778 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.112 min
Lab File: VN076202.D
Acq: 11 Jan 2023 12:04

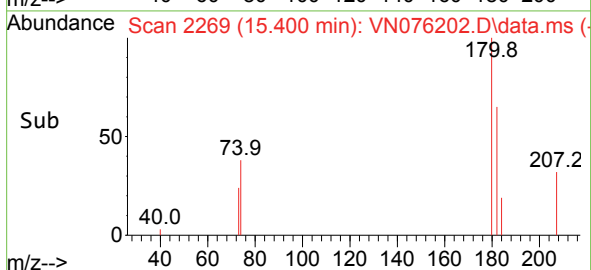
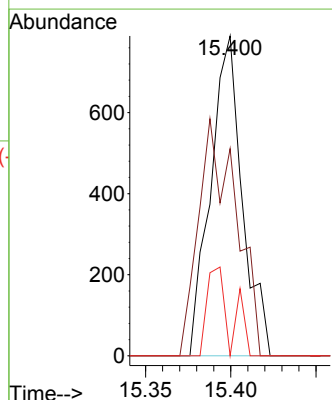
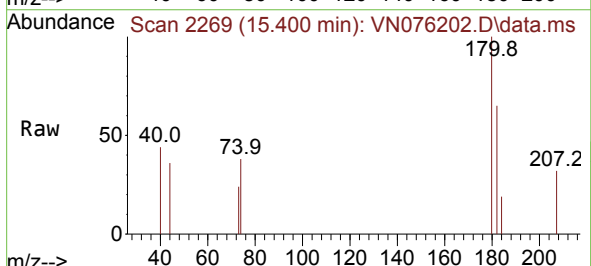
Instrument :
MSVOA_N
ClientSampleId :
MH-2

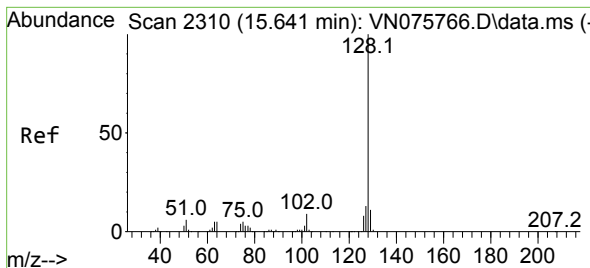
Tgt Ion: 75 Resp: 126082
Ion Ratio Lower Upper
75 100
53 0.0 73.8 110.6#
89 0.0 39.5 59.3#



#93
1,2,4-Trichlorobenzene
Concen: 0.258 ug/l
RT: 15.400 min Scan# 2269
Delta R.T. 0.006 min
Lab File: VN076202.D
Acq: 11 Jan 2023 12:04

Tgt Ion:180 Resp: 1020
Ion Ratio Lower Upper
180 100
182 87.7 47.5 142.5
145 20.4 15.3 45.8





#95

Naphthalene

Concen: 2.567 ug/l

RT: 15.641 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN076202.D

Acq: 11 Jan 2023 12:04

Instrument :

MSVOA_N

ClientSampleId :

MH-2

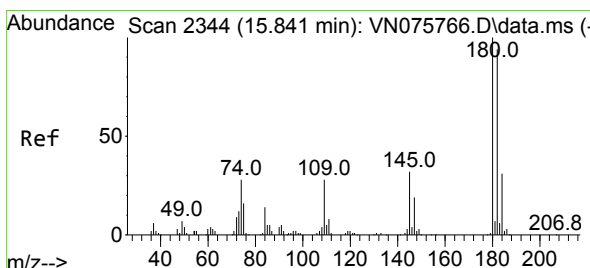
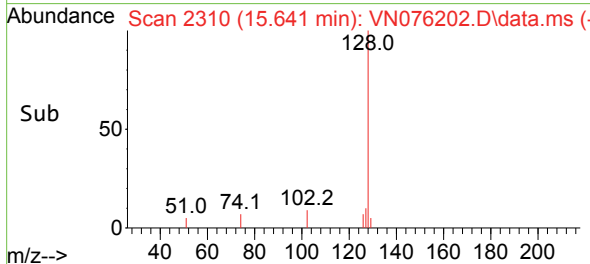
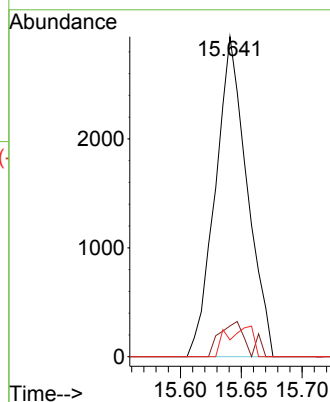
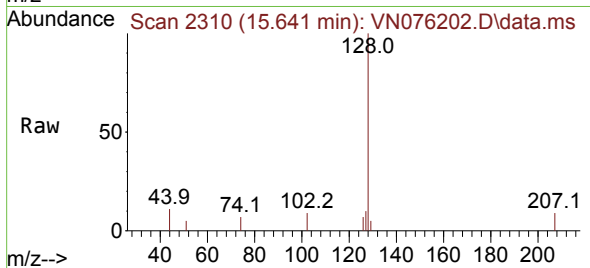
Tgt Ion:128 Resp: 5320

Ion Ratio Lower Upper

128 100

127 8.0 10.4 15.6#

129 7.7 8.7 13.1#



#96

1,2,3-Trichlorobenzene

Concen: 0.248 ug/l

RT: 15.847 min Scan# 2345

Delta R.T. 0.006 min

Lab File: VN076202.D

Acq: 11 Jan 2023 12:04

Tgt Ion:180 Resp: 916

Ion Ratio Lower Upper

180 100

182 106.1 47.0 141.0

145 32.1 16.0 47.9

