

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010423\
 Data File : VN076079.D
 Acq On : 04 Jan 2023 14:17
 Operator : JC\MD
 Sample : PB150013TB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB150013TB

Quant Time: Jan 05 01:23:17 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)

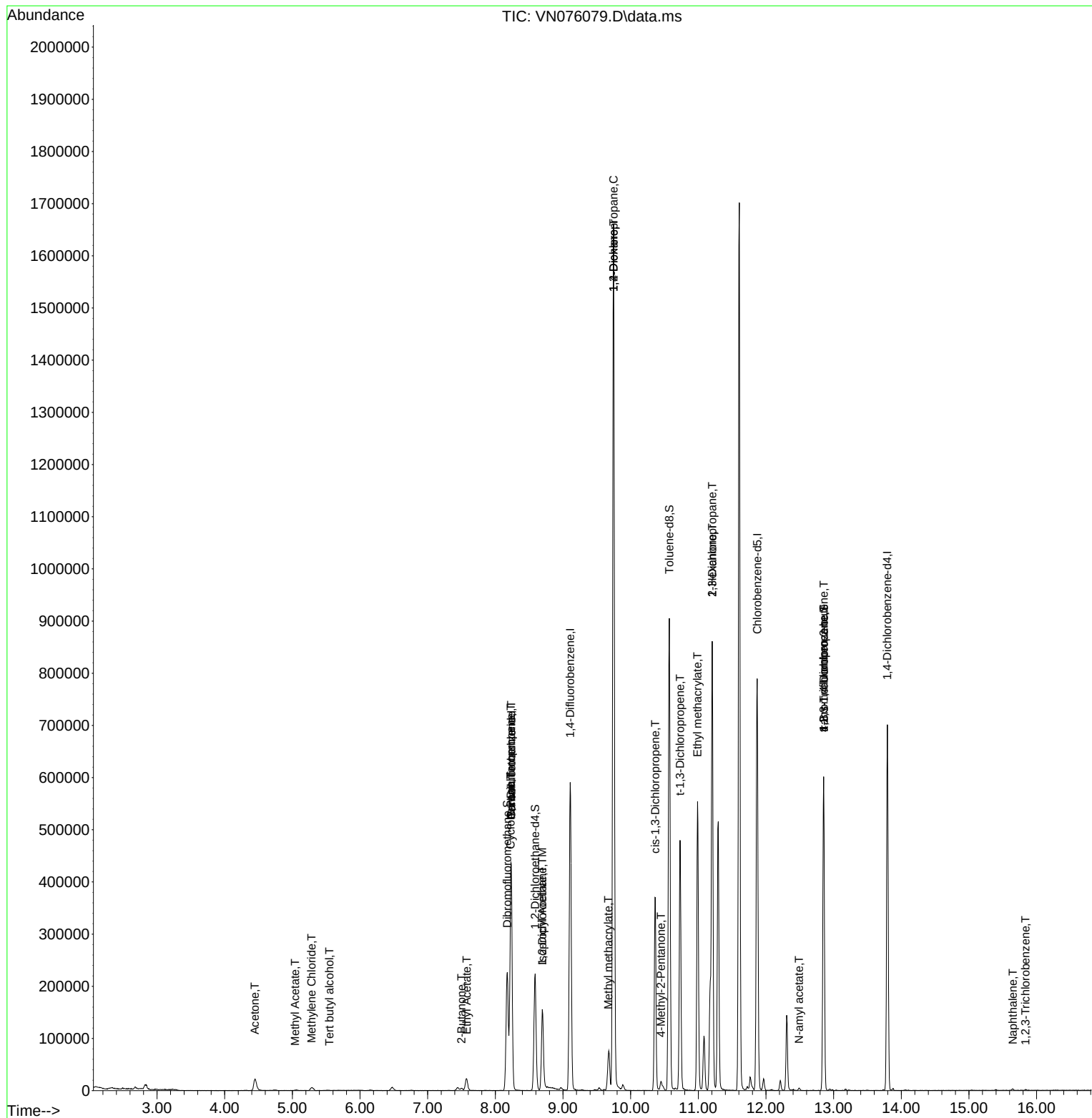
Internal Standards						
1) Pentafluorobenzene	8.236	168	341518	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	546758	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	484400	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	193951	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	181363	48.814	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	97.620%		
35) Dibromofluoromethane	8.177	113	163726	48.354	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	96.700%		
50) Toluene-d8	10.571	98	640303	50.577	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	101.160%		
62) 4-Bromofluorobenzene	12.853	95	195493	46.623	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	93.240%		
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.548	59	372	0.708	ug/l #	72
16) Acetone	4.448	43	41976	32.774	ug/l	92
18) Methyl Acetate	5.042	43	964	0.255	ug/l #	45
20) Methylene Chloride	5.283	84	5065	0.849	ug/l #	87
25) 2-Butanone	7.500	43	7364	4.106	ug/l	90
31) Cyclohexane	8.224	56	6781	1.274	ug/l #	15
36) 1,1-Dichloropropene	8.230	75	24511	5.449	ug/l #	48
37) Ethyl Acetate	7.577	43	33381	9.239	ug/l	99
38) Carbon Tetrachloride	8.236	117	35044	6.961	ug/l #	17
42) 1,2-Dichloroethane	8.694	62	1345	0.292	ug/l #	72
43) Isopropyl Acetate	8.694	43	168735	28.312	ug/l #	89
45) 1,2-Dichloropropane	9.747	63	2181	0.646	ug/l #	43
48) Methyl methacrylate	9.671	41	4264	1.589	ug/l #	37
49) 1,4-Dioxane	9.747	88	168	2.546	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	16763	4.651	ug/l #	72
53) t-1,3-Dichloropropene	10.730	75	1276	0.265	ug/l #	73
54) cis-1,3-Dichloropropene	10.365	75	73190	13.864	ug/l #	63
56) Ethyl methacrylate	10.988	69	1966	0.417	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	9177	1.577	ug/l #	42
59) 2-Hexanone	11.206	43	93774	35.676	ug/l #	52
74) N-amyl acetate	12.488	43	1939	0.472	ug/l #	47
76) 1,2,3-Trichloropropane	12.853	75	98701	25.246	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	98701	90.873	ug/l #	12
95) Naphthalene	15.647	128	3521	2.497	ug/l #	95
96) 1,2,3-Trichlorobenzene	15.835	180	849	0.284	ug/l	82

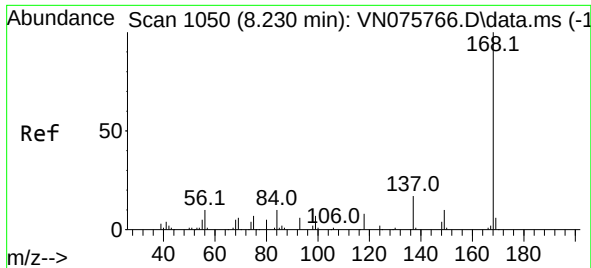
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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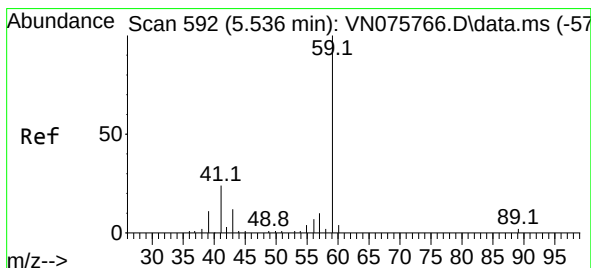
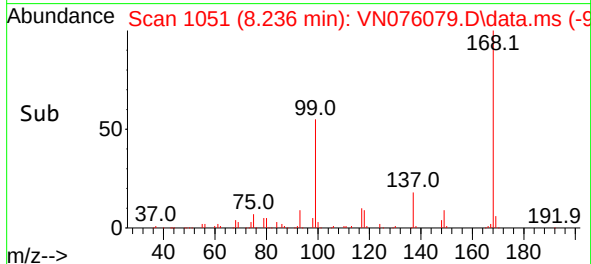
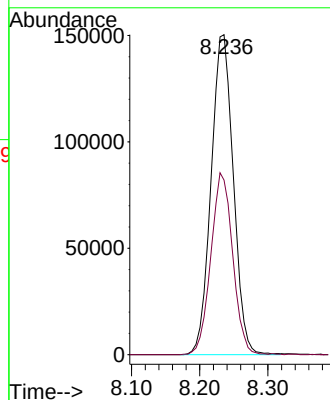
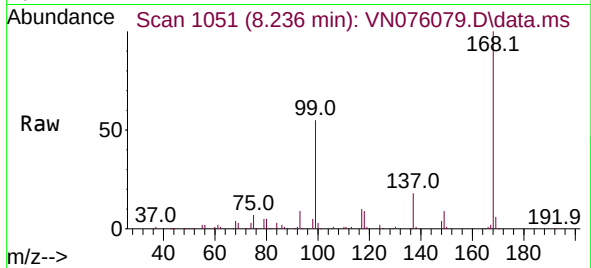




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.236 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN076079.D
Acq: 04 Jan 2023 14:17

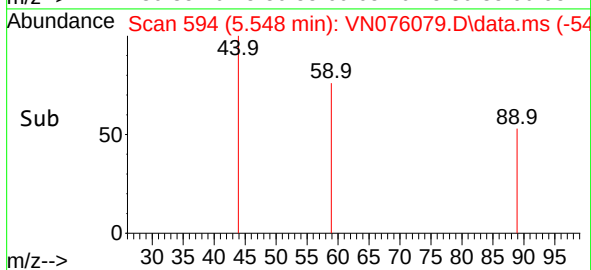
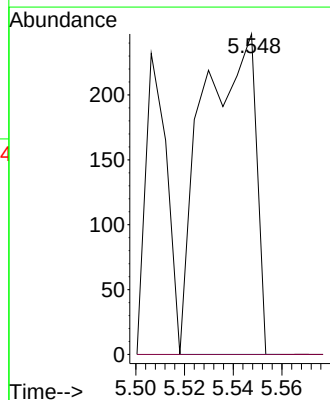
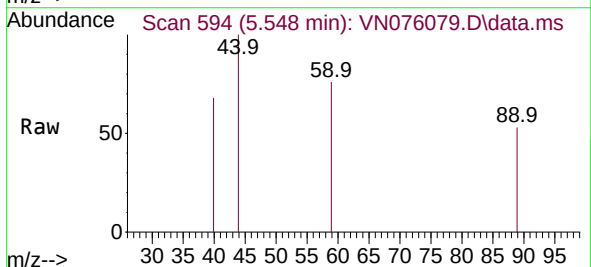
Instrument :
MSVOA_N
ClientSampleId :
PB150013TB

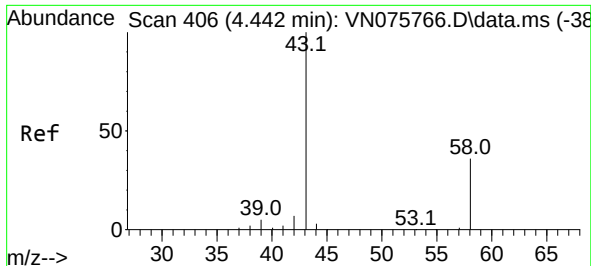
Tgt Ion:168 Resp: 341518
Ion Ratio Lower Upper
168 100
99 54.6 44.2 66.4



#11
Tert butyl alcohol
Concen: 0.708 ug/l
RT: 5.548 min Scan# 594
Delta R.T. 0.012 min
Lab File: VN076079.D
Acq: 04 Jan 2023 14:17

Tgt Ion: 59 Resp: 372
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

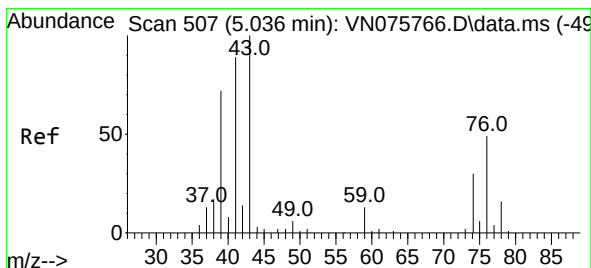
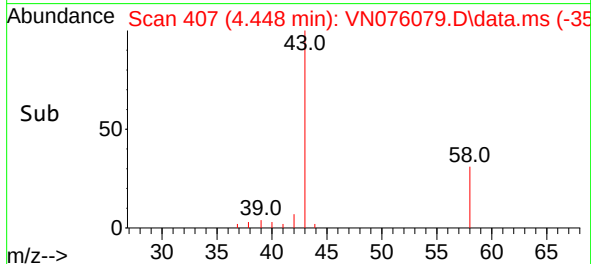
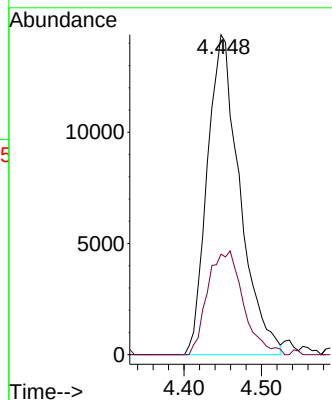
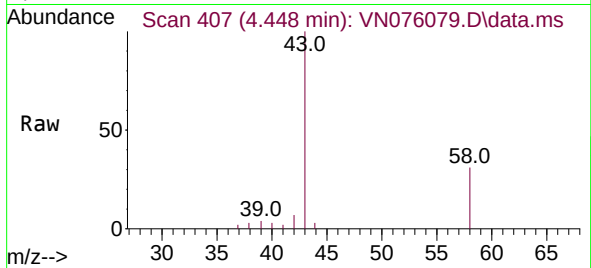




#16
Acetone
Concen: 32.774 ug/l
RT: 4.448 min Scan# 406
Delta R.T. 0.006 min
Lab File: VN076079.D
Acq: 04 Jan 2023 14:17

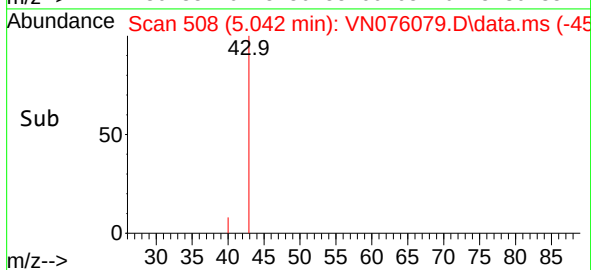
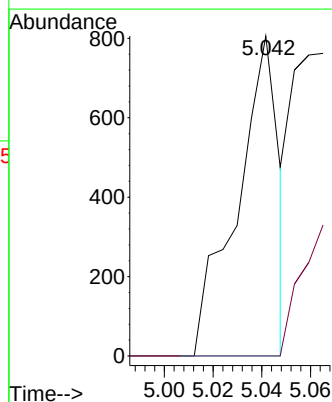
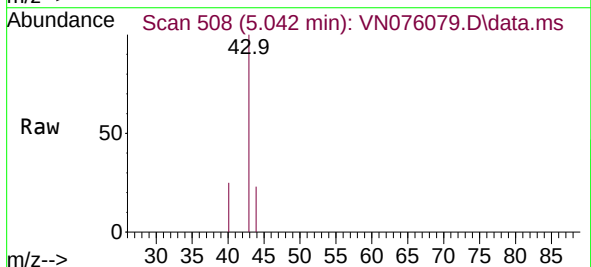
Instrument :
MSVOA_N
ClientSampleId :
PB150013TB

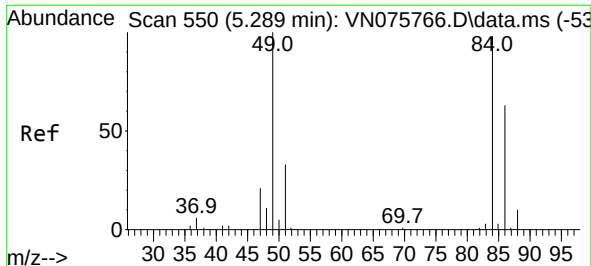
Tgt Ion: 43 Resp: 41976
Ion Ratio Lower Upper
43 100
58 31.4 28.6 43.0



#18
Methyl Acetate
Concen: 0.255 ug/l
RT: 5.042 min Scan# 508
Delta R.T. 0.006 min
Lab File: VN076079.D
Acq: 04 Jan 2023 14:17

Tgt Ion: 43 Resp: 964
Ion Ratio Lower Upper
43 100
74 0.0 23.6 35.4#

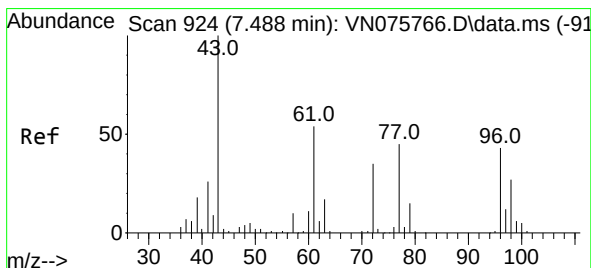
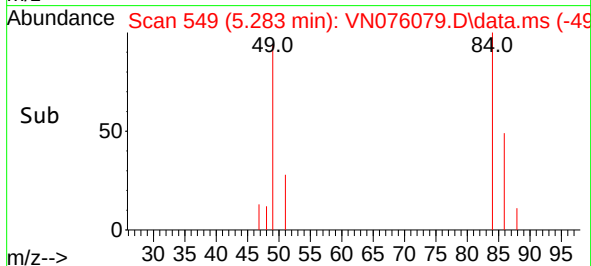
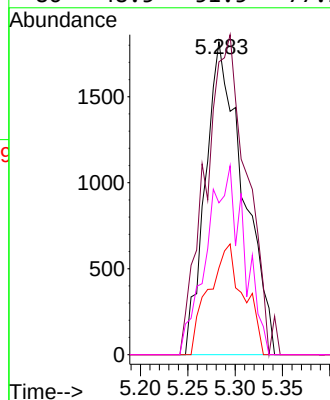
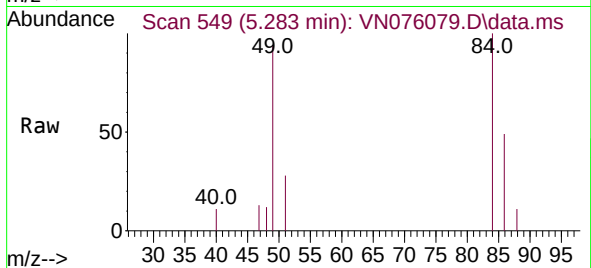




#20
Methylene Chloride
Concen: 0.849 ug/l
RT: 5.283 min Scan# 549
Delta R.T. -0.006 min
Lab File: VN076079.D
Acq: 04 Jan 2023 14:17

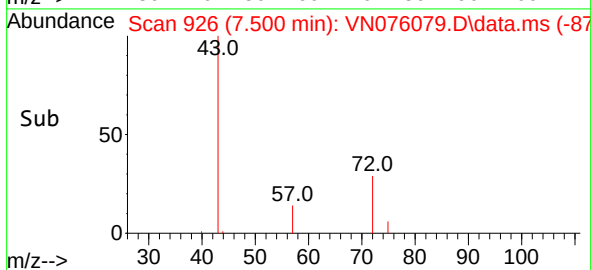
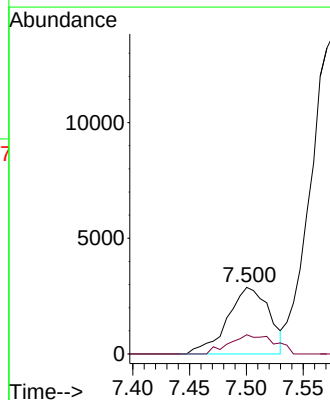
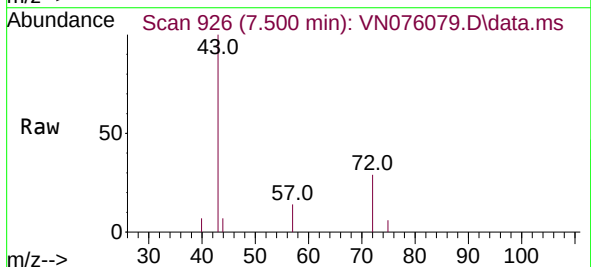
Instrument :
MSVOA_N
ClientSampleId :
PB150013TB

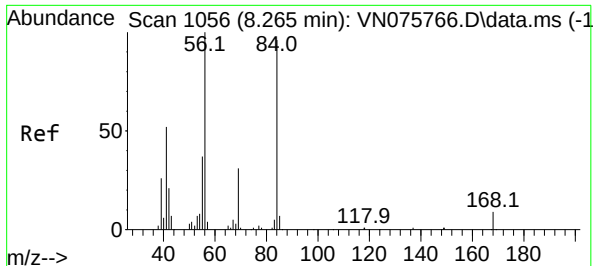
Tgt Ion: 84	Resp: 5065
Ion Ratio	Lower Upper
84 100	
49 93.6	81.8 122.6
51 27.7	26.7 40.1
86 48.5	51.5 77.3#



#25
2-Butanone
Concen: 4.106 ug/l
RT: 7.500 min Scan# 926
Delta R.T. 0.012 min
Lab File: VN076079.D
Acq: 04 Jan 2023 14:17

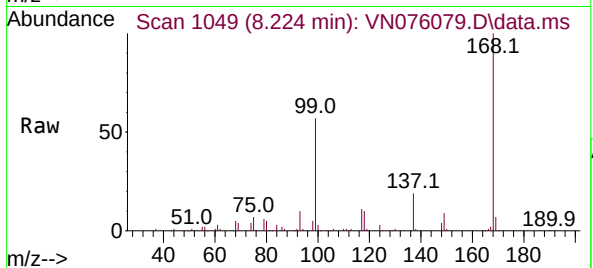
Tgt Ion: 43	Resp: 7364		
Ion Ratio	Lower	Upper	
43 100			
72 28.9	28.0	42.0	





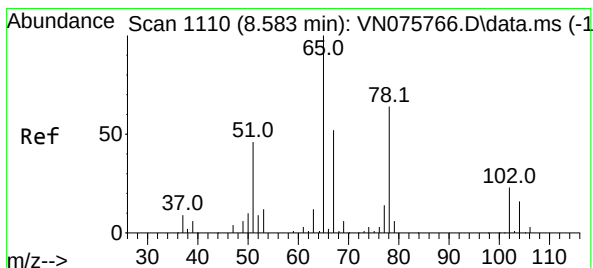
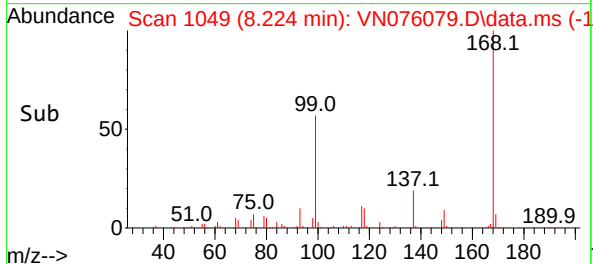
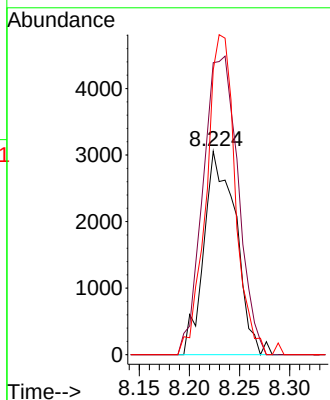
#31
Cyclohexane
Concen: 1.274 ug/l
RT: 8.224 min Scan# 1049
Delta R.T. -0.041 min
Lab File: VN076079.D
Acq: 04 Jan 2023 14:17

Instrument :
MSVOA_N
ClientSampleId :
PB150013TB



Tgt Ion: 56 Resp: 6781

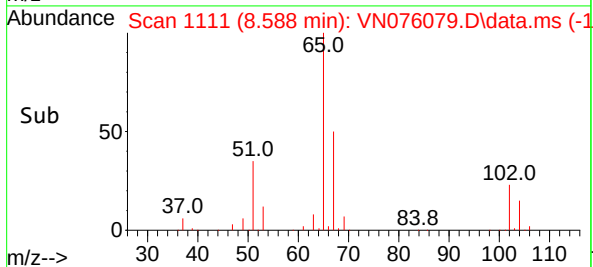
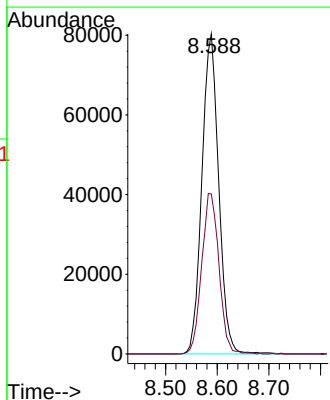
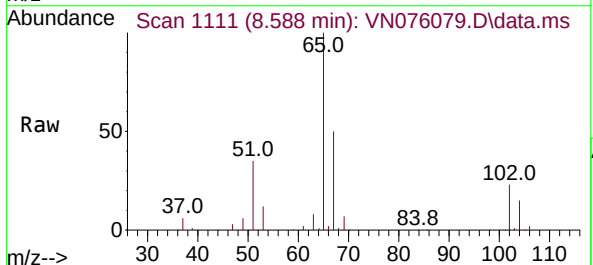
Ion	Ratio	Lower	Upper
56	100		
69	143.5	24.7	37.1#
84	140.0	76.5	114.7#

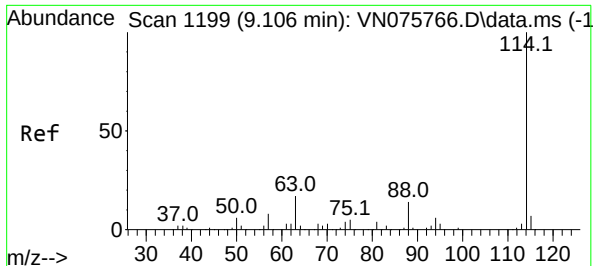


#33
1,2-Dichloroethane-d4
Concen: 48.814 ug/l
RT: 8.588 min Scan# 1111
Delta R.T. 0.006 min
Lab File: VN076079.D
Acq: 04 Jan 2023 14:17

Tgt Ion: 65 Resp: 181363

Ion	Ratio	Lower	Upper
65	100		
67	51.5	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: VN076079.D

Acq: 04 Jan 2023 14:17

Instrument :

MSVOA_N

ClientSampleId :

PB150013TB

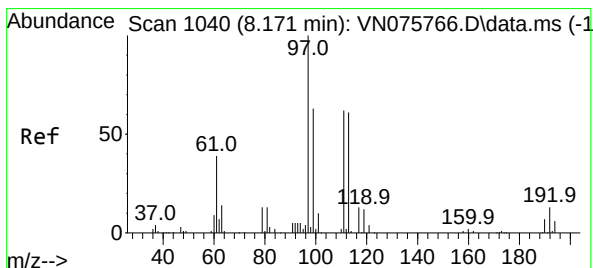
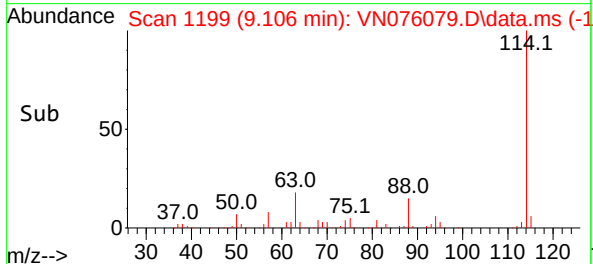
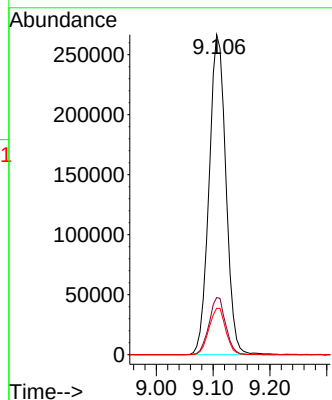
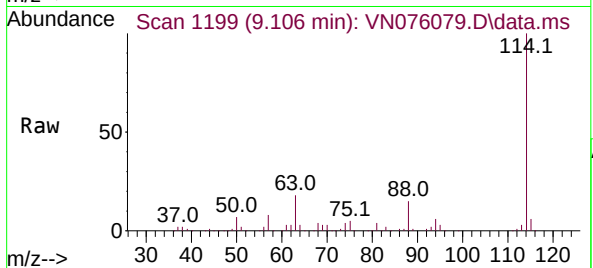
Tgt Ion:114 Resp: 546758

Ion Ratio Lower Upper

114 100

63 17.9 0.0 34.4

88 14.5 0.0 28.8



#35

Dibromofluoromethane

Concen: 48.354 ug/l

RT: 8.177 min Scan# 1041

Delta R.T. 0.006 min

Lab File: VN076079.D

Acq: 04 Jan 2023 14:17

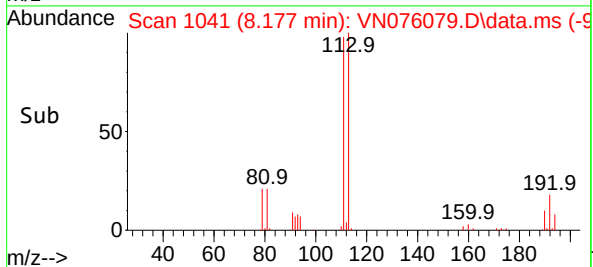
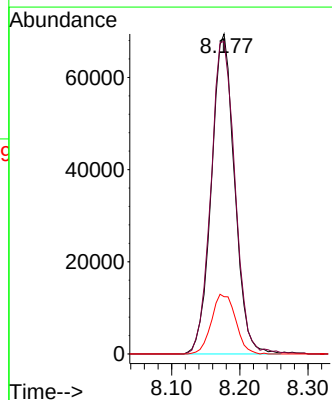
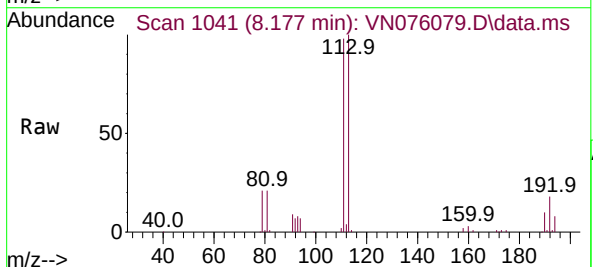
Tgt Ion:113 Resp: 163726

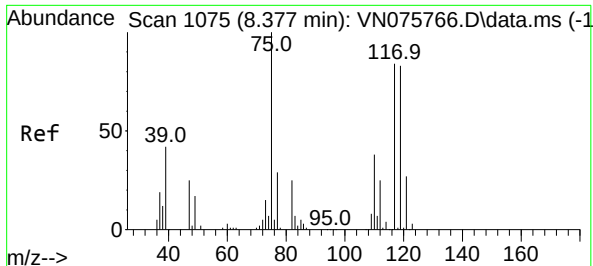
Ion Ratio Lower Upper

113 100

111 102.4 83.4 125.2

192 19.5 16.1 24.1





#36

1,1-Dichloropropene

Concen: 5.449 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.147 min

Lab File: VN076079.D

Acq: 04 Jan 2023 14:17

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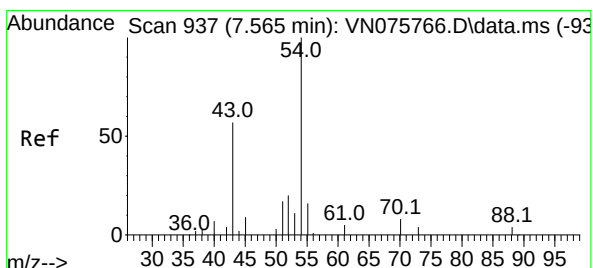
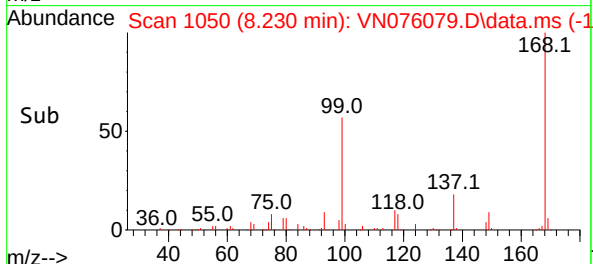
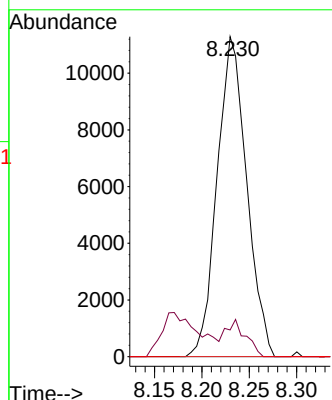
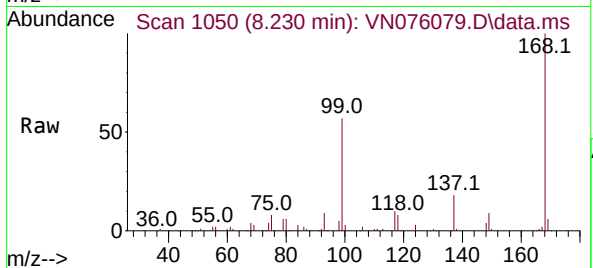
Tgt Ion: 75 Resp: 24511

Ion Ratio Lower Upper

75 100

110 7.9 18.8 56.4#

77 0.0 24.1 36.1#



#37

Ethyl Acetate

Concen: 9.239 ug/l

RT: 7.577 min Scan# 939

Delta R.T. 0.012 min

Lab File: VN076079.D

Acq: 04 Jan 2023 14:17

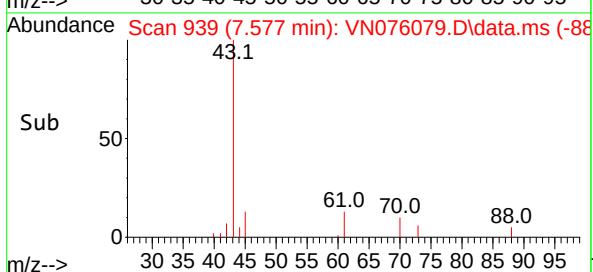
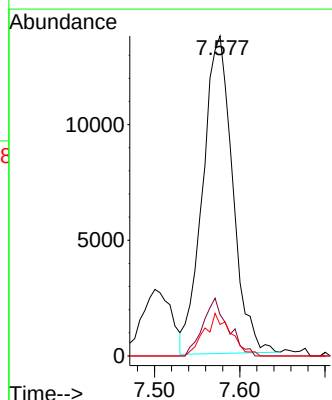
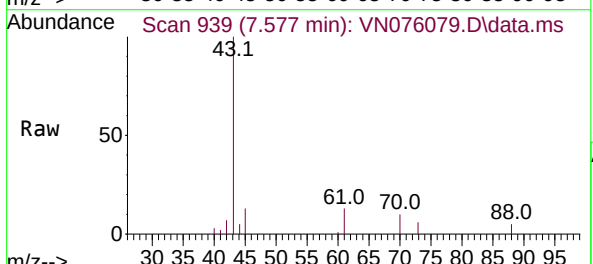
Tgt Ion: 43 Resp: 33381

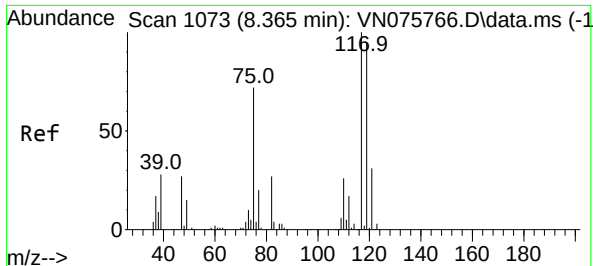
Ion Ratio Lower Upper

43 100

61 15.4 13.0 19.4

70 11.9 9.4 14.0

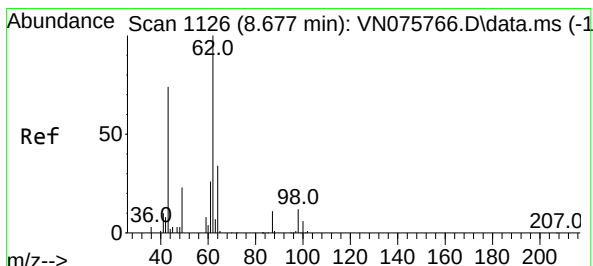
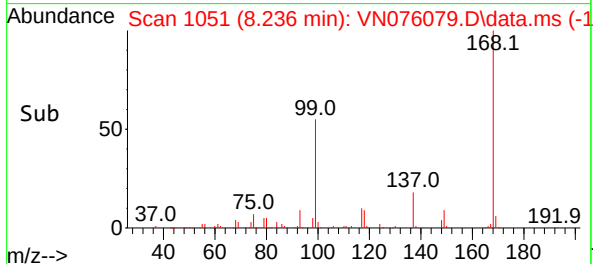
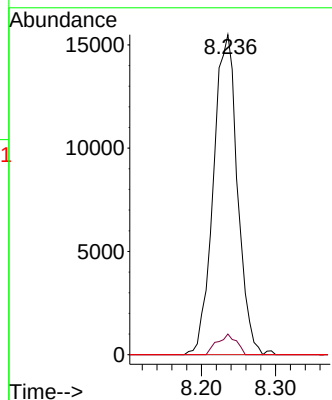
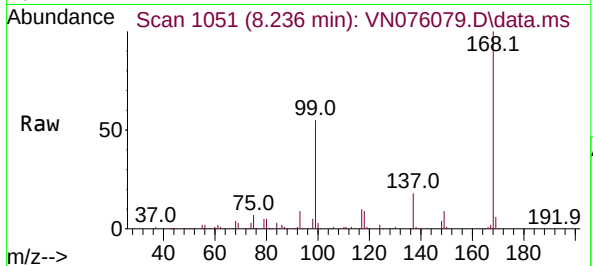




#38
Carbon Tetrachloride
Concen: 6.961 ug/l
RT: 8.236 min Scan# 110
Delta R.T. -0.129 min
Lab File: VN076079.D
Acq: 04 Jan 2023 14:17

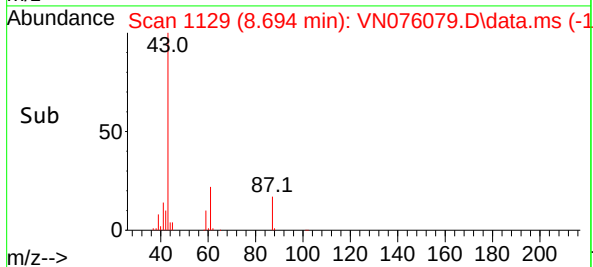
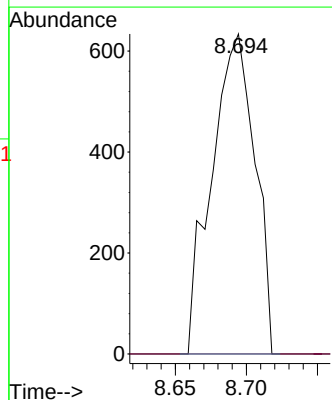
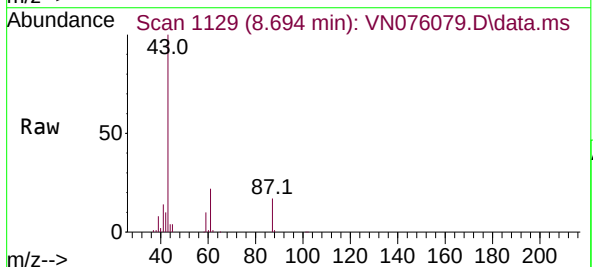
Instrument :
MSVOA_N
ClientSampleId :
PB150013TB

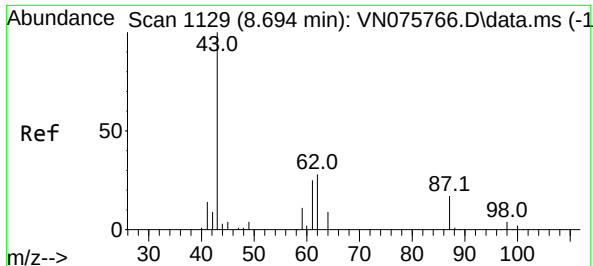
Tgt Ion:117 Resp: 35044
Ion Ratio Lower Upper
117 100
119 6.4 76.1 114.1#
121 0.0 24.5 36.7#



#42
1,2-Dichloroethane
Concen: 0.292 ug/l
RT: 8.694 min Scan# 1129
Delta R.T. 0.018 min
Lab File: VN076079.D
Acq: 04 Jan 2023 14:17

Tgt Ion: 62 Resp: 1345
Ion Ratio Lower Upper
62 100
98 0.0 0.0 20.8





#43

Isopropyl Acetate

Concen: 28.312 ug/l

RT: 8.694 min Scan# 1129

Delta R.T. 0.000 min

Lab File: VN076079.D

Acq: 04 Jan 2023 14:17

Instrument :

MSVOA_N

ClientSampleId :

PB150013TB

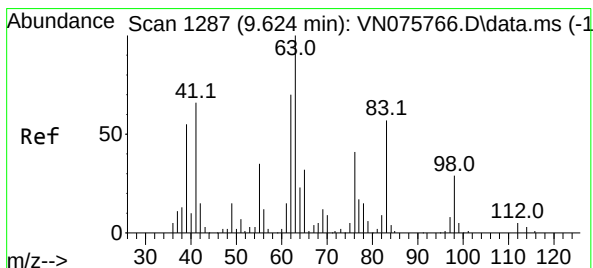
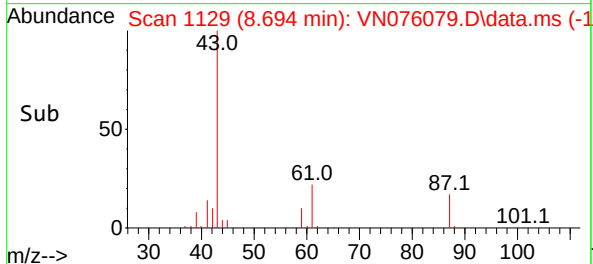
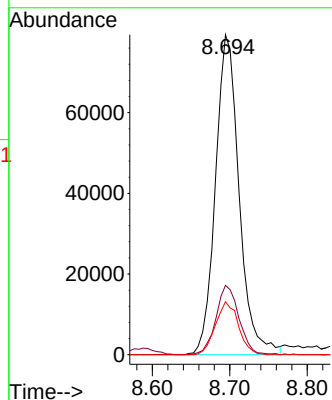
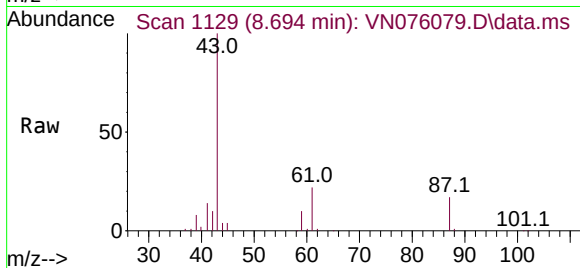
Tgt Ion: 43 Resp: 168735

Ion Ratio Lower Upper

43 100

61 21.1 24.2 36.4#

87 16.0 13.3 19.9



#45

1,2-Dichloropropane

Concen: 0.646 ug/l

RT: 9.747 min Scan# 1308

Delta R.T. 0.124 min

Lab File: VN076079.D

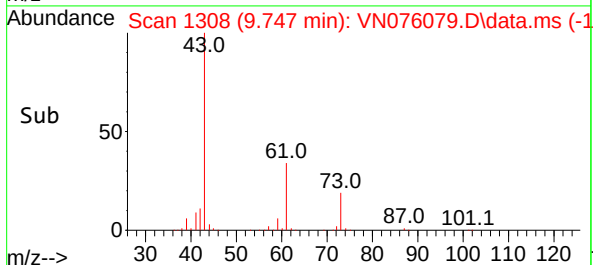
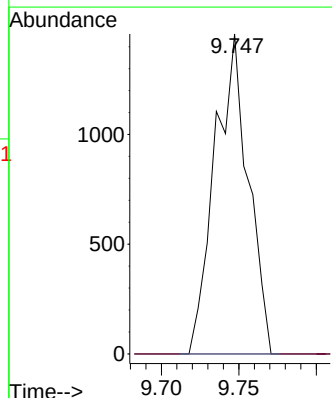
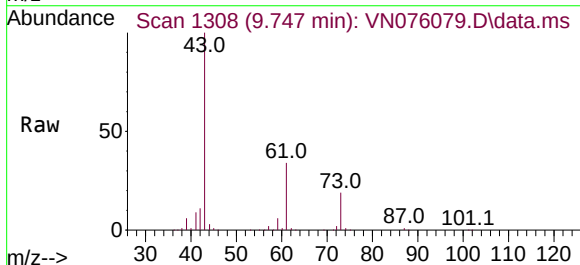
Acq: 04 Jan 2023 14:17

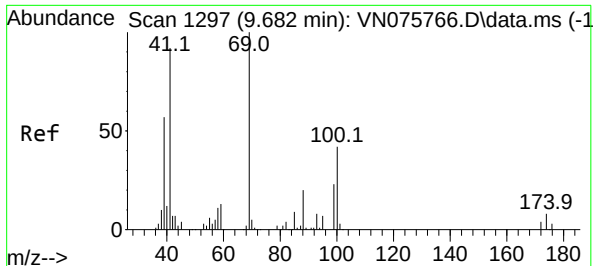
Tgt Ion: 63 Resp: 2181

Ion Ratio Lower Upper

63 100

65 0.0 25.7 38.5#

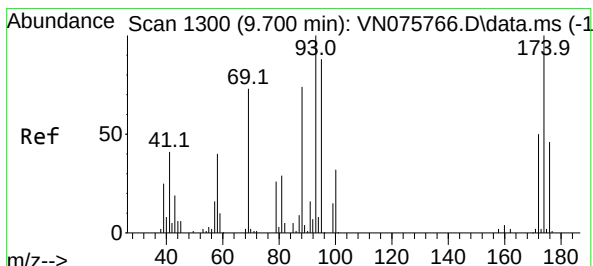
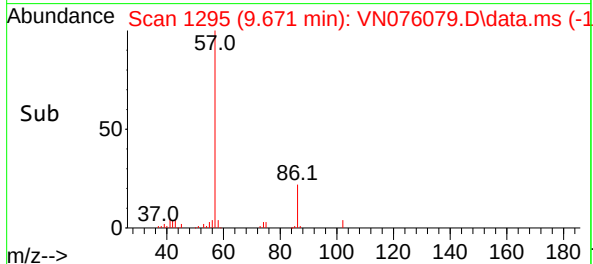
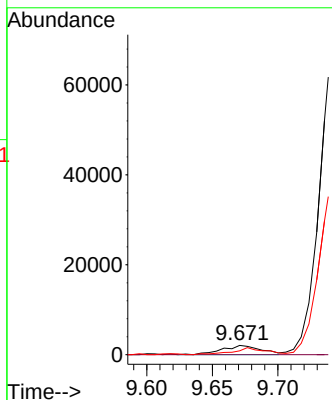
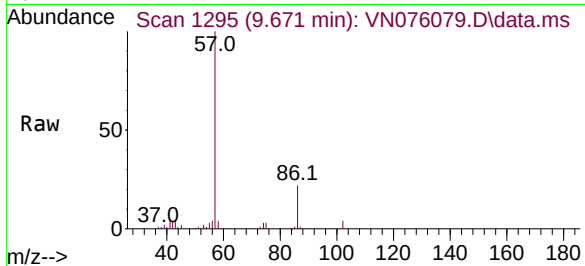




#48
Methyl methacrylate
Concen: 1.589 ug/l
RT: 9.671 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN076079.D
Acq: 04 Jan 2023 14:17

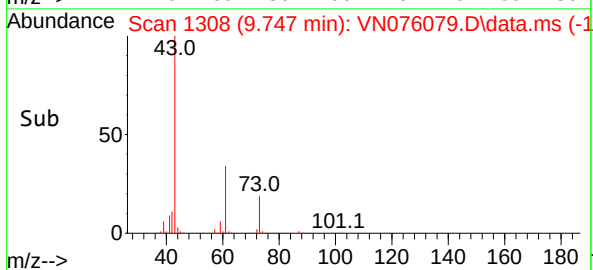
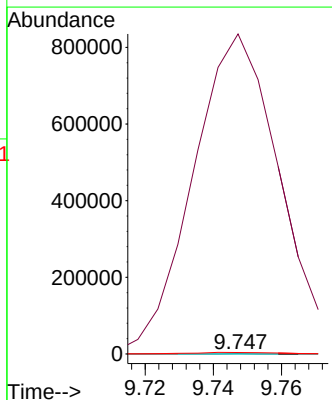
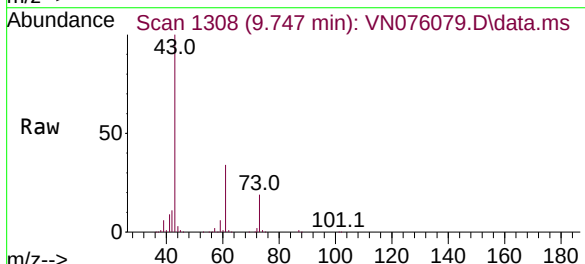
Instrument :
MSVOA_N
ClientSampleId :
PB150013TB

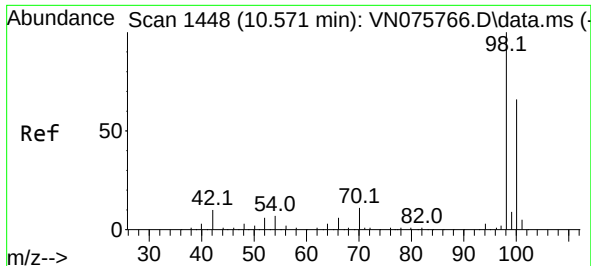
Tgt Ion: 41 Resp: 4264
Ion Ratio Lower Upper
41 100
69 0.0 81.9 122.9#
39 62.9 51.6 77.4



#49
1,4-Dioxane
Concen: 2.546 ug/l
RT: 9.747 min Scan# 1308
Delta R.T. 0.047 min
Lab File: VN076079.D
Acq: 04 Jan 2023 14:17

Tgt Ion: 88 Resp: 168
Ion Ratio Lower Upper
88 100
43 890365.5 17.1 25.7#
58 4519.0 47.8 71.8#

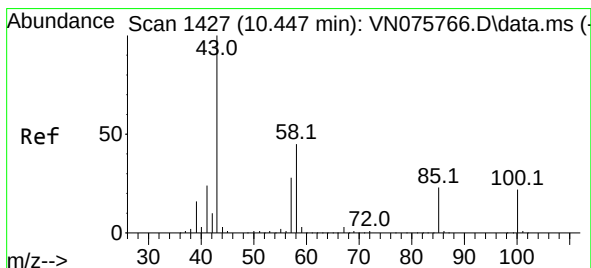
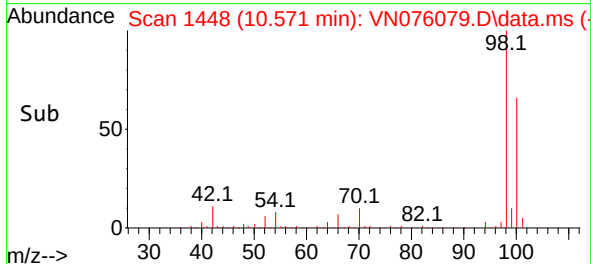
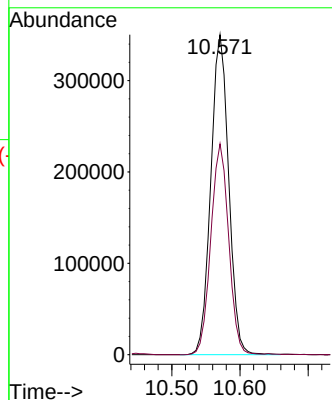
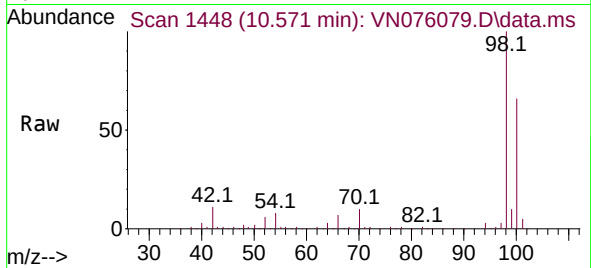




#50
Toluene-d8
Concen: 50.577 ug/l
RT: 10.571 min Scan# 1448
Delta R.T. 0.000 min
Lab File: VN076079.D
Acq: 04 Jan 2023 14:17

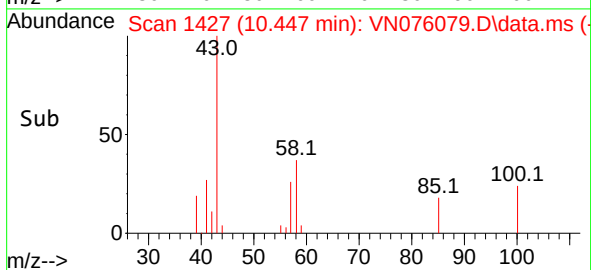
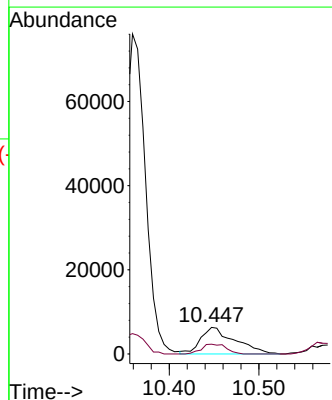
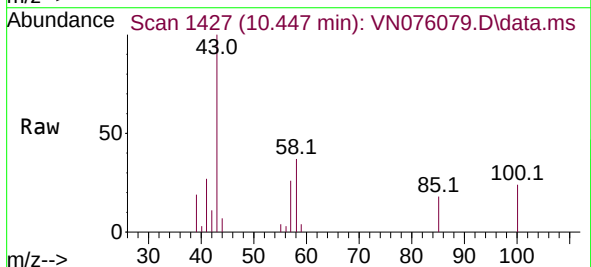
Instrument :
MSVOA_N
ClientSampleId :
PB150013TB

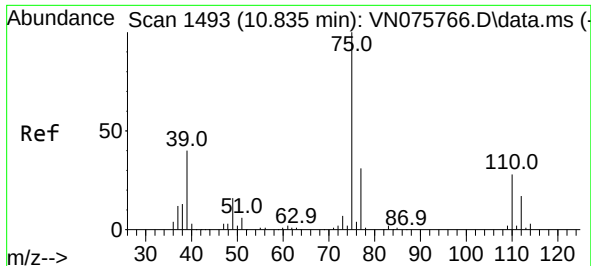
Tgt Ion: 98 Resp: 640303
Ion Ratio Lower Upper
98 100
100 65.7 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 4.651 ug/l
RT: 10.447 min Scan# 1427
Delta R.T. 0.000 min
Lab File: VN076079.D
Acq: 04 Jan 2023 14:17

Tgt Ion: 43 Resp: 16763
Ion Ratio Lower Upper
43 100
58 26.5 35.5 53.3#

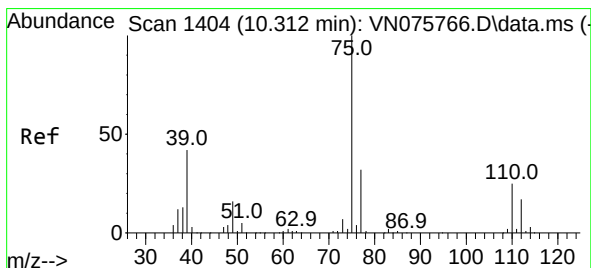
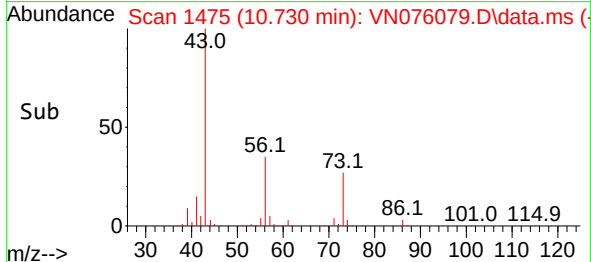
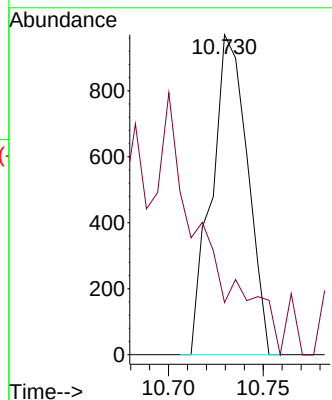
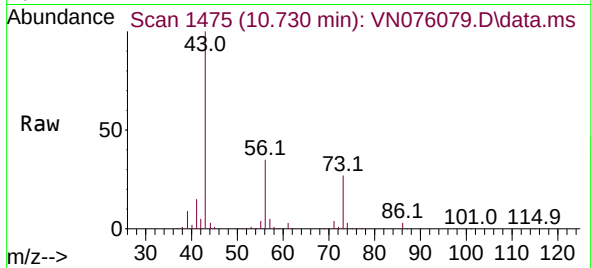




#53
 t-1,3-Dichloropropene
 Concen: 0.265 ug/l
 RT: 10.730 min Scan# 1412
 Delta R.T. -0.106 min
 Lab File: VN076079.D
 Acq: 04 Jan 2023 14:17

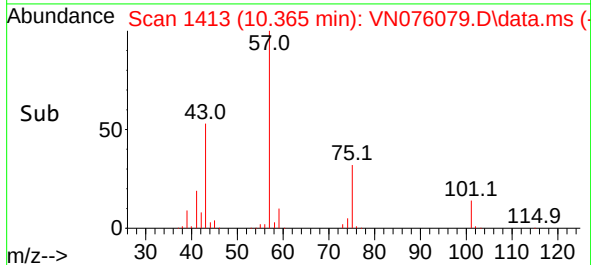
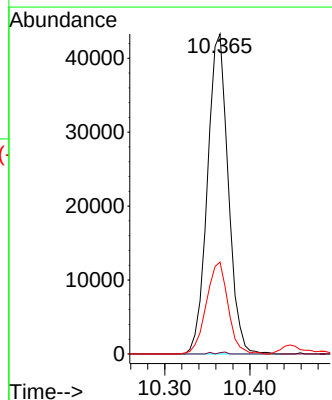
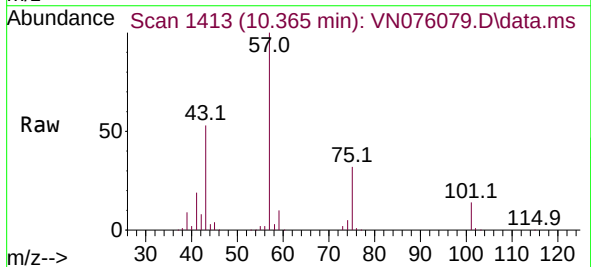
Instrument :
 MSVOA_N
 ClientSampleId :
 PB150013TB

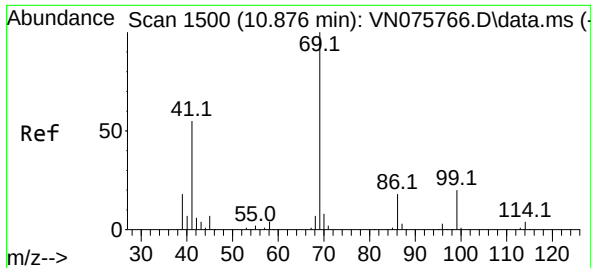
Tgt Ion: 75 Resp: 1276
 Ion Ratio Lower Upper
 75 100
 77 16.3 24.9 37.3#



#54
 cis-1,3-Dichloropropene
 Concen: 13.864 ug/l
 RT: 10.365 min Scan# 1413
 Delta R.T. 0.053 min
 Lab File: VN076079.D
 Acq: 04 Jan 2023 14:17

Tgt Ion: 75 Resp: 73190
 Ion Ratio Lower Upper
 75 100
 77 0.4 25.8 38.8#
 39 28.7 33.4 50.2#

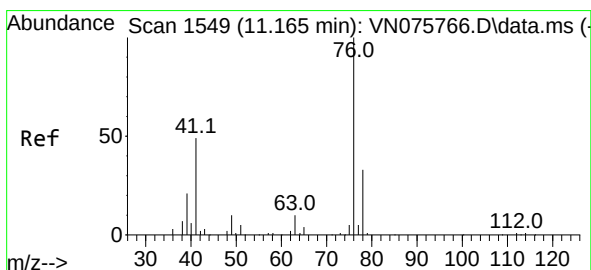
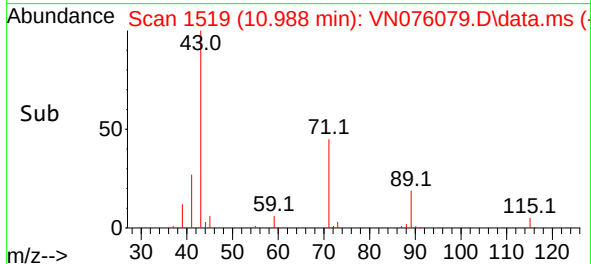
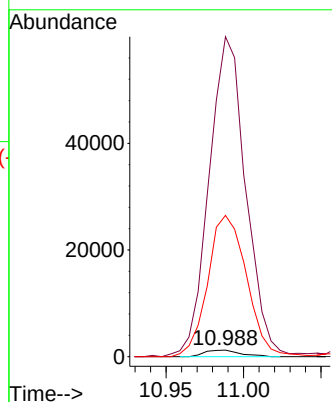
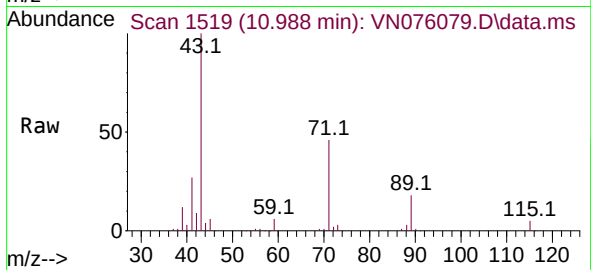




#56
Ethyl methacrylate
Concen: 0.417 ug/l
RT: 10.988 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN076079.D
Acq: 04 Jan 2023 14:17

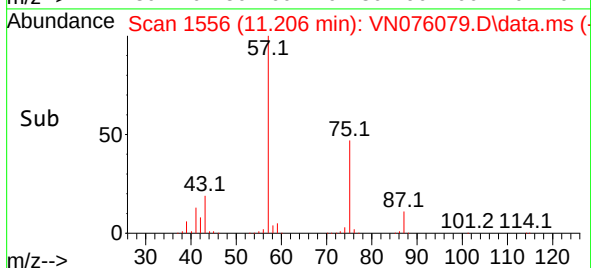
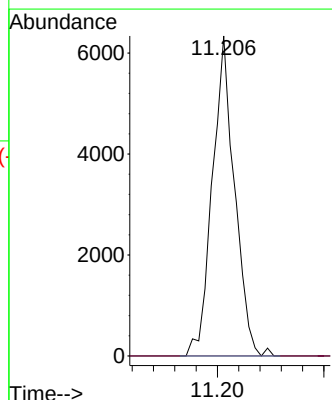
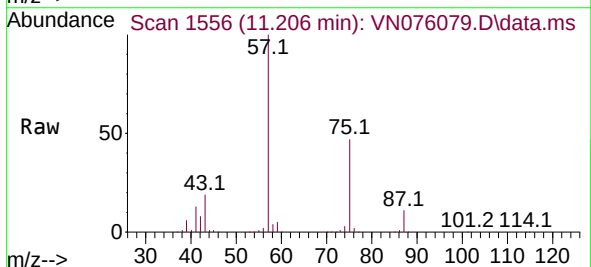
Instrument :
MSVOA_N
ClientSampleId :
PB150013TB

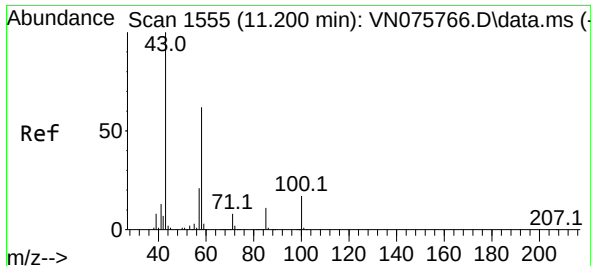
Tgt Ion: 69 Resp: 1966
Ion Ratio Lower Upper
69 100
41 5058.8 44.2 66.4#
39 2353.2 26.4 39.6#



#57
1,3-Dichloropropane
Concen: 1.577 ug/l
RT: 11.206 min Scan# 1556
Delta R.T. 0.041 min
Lab File: VN076079.D
Acq: 04 Jan 2023 14:17

Tgt Ion: 76 Resp: 9177
Ion Ratio Lower Upper
76 100
78 0.0 26.2 39.2#

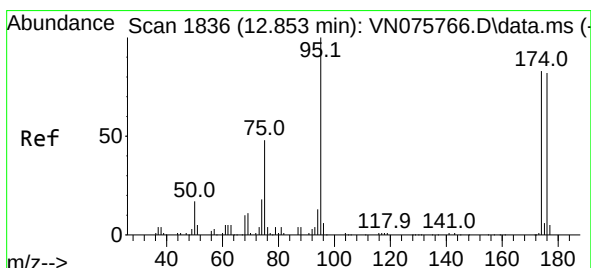
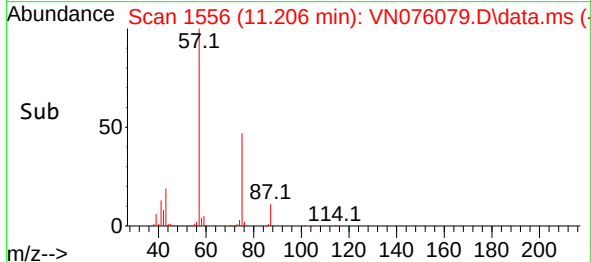
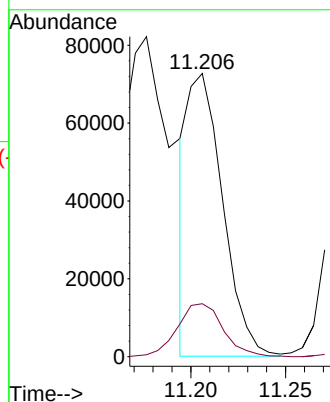
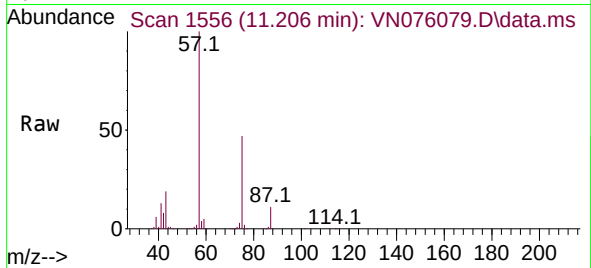




#59
2-Hexanone
Concen: 35.676 ug/l
RT: 11.206 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN076079.D
Acq: 04 Jan 2023 14:17

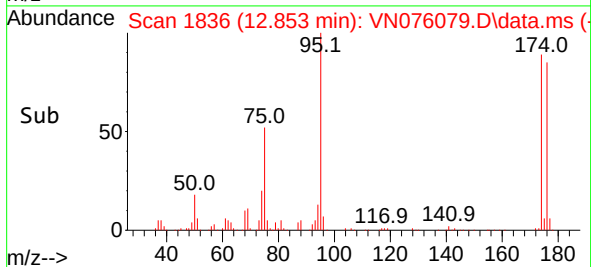
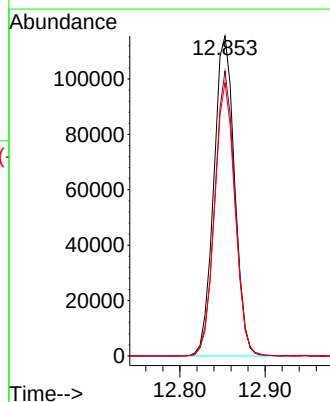
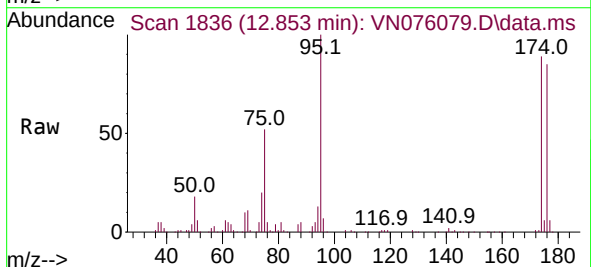
Instrument :
MSVOA_N
ClientSampleId :
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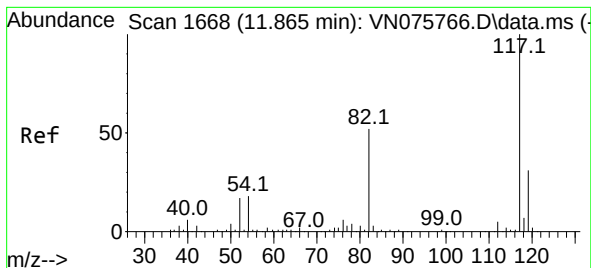
Tgt Ion: 43 Resp: 93774
Ion Ratio Lower Upper
43 100
58 24.5 30.6 92.0#



#62
4-Bromofluorobenzene
Concen: 46.623 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.000 min
Lab File: VN076079.D
Acq: 04 Jan 2023 14:17

Tgt Ion: 95 Resp: 195493
Ion Ratio Lower Upper
95 100
174 86.7 0.0 171.6
176 83.5 0.0 169.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.871 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN076079.D

Acq: 04 Jan 2023 14:17

Instrument :

MSVOA_N

ClientSampleId :

PB150013TB

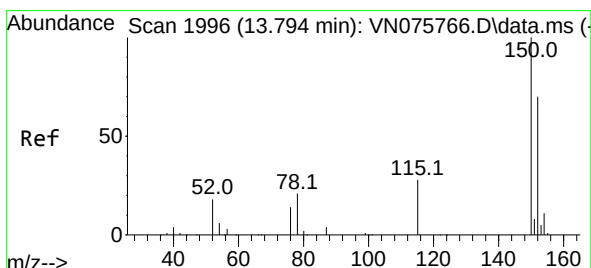
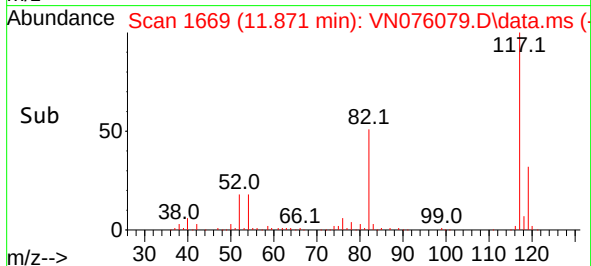
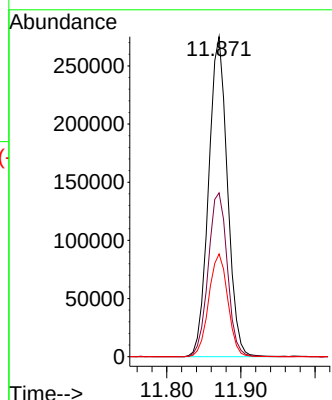
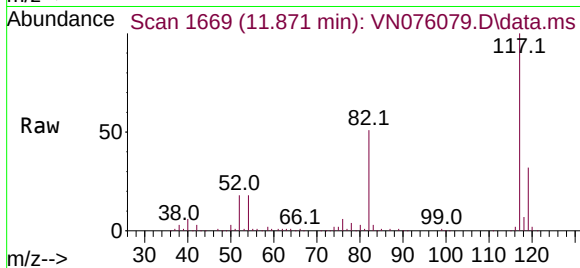
Tgt Ion:117 Resp: 484400

Ion Ratio Lower Upper

117 100

82 51.2 41.3 61.9

119 32.1 24.6 37.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 1996

Delta R.T. 0.000 min

Lab File: VN076079.D

Acq: 04 Jan 2023 14:17

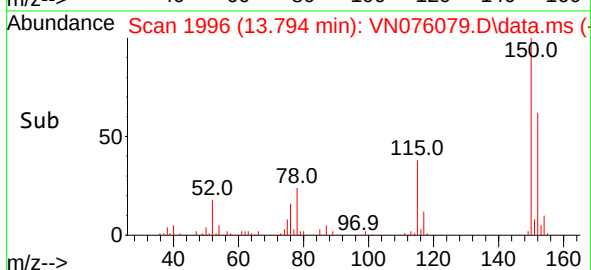
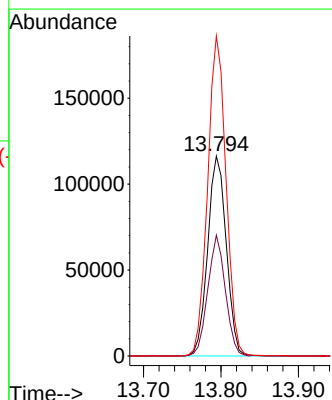
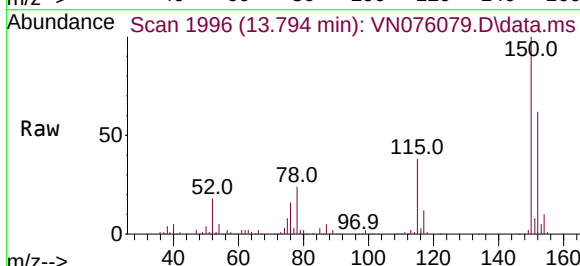
Tgt Ion:152 Resp: 193951

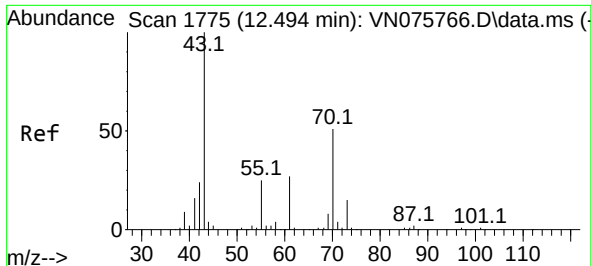
Ion Ratio Lower Upper

152 100

115 57.1 29.1 87.4

150 157.8 0.0 347.0

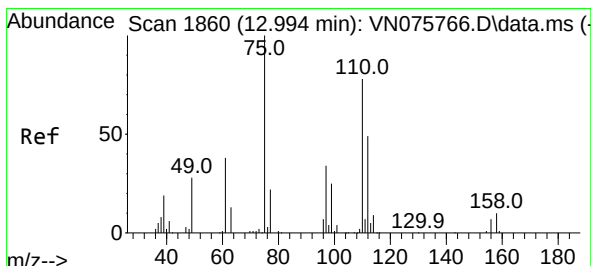
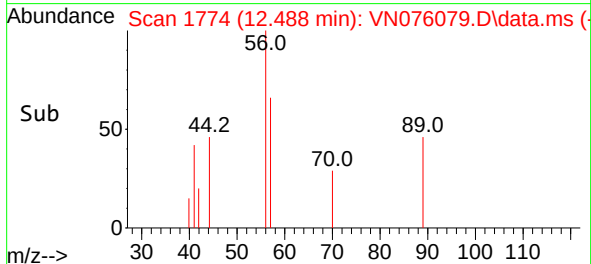
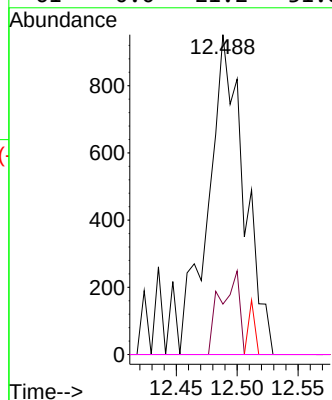
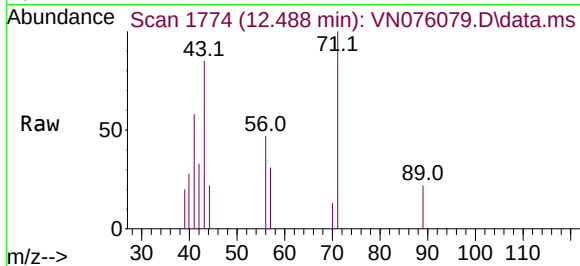




#74
N-amy1 acetate
Concen: 0.472 ug/l
RT: 12.488 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN076079.D
Acq: 04 Jan 2023 14:17

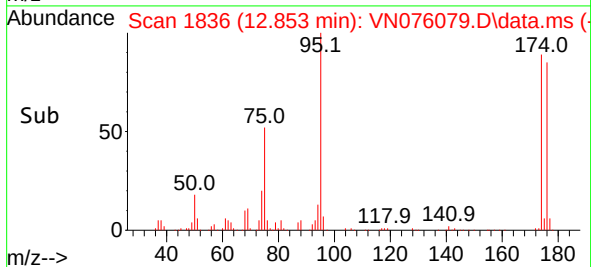
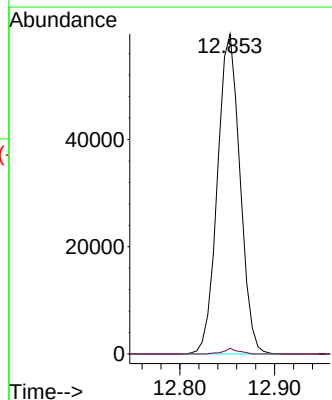
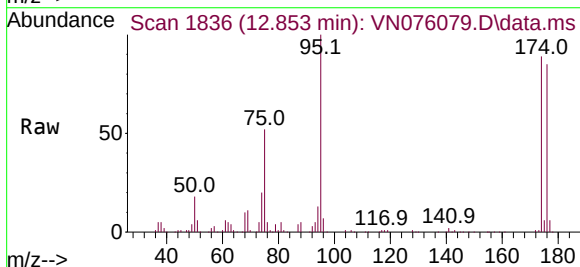
Instrument :
MSVOA_N
ClientSampleId :
PB150013TB

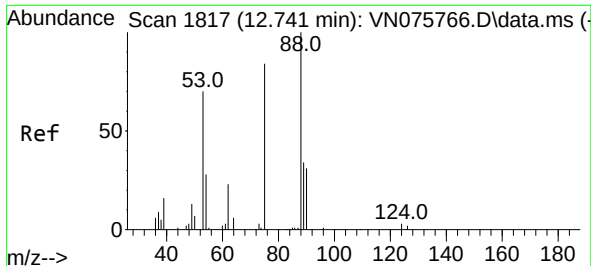
Tgt Ion:	43	Resp:	1939
Ion	Ratio	Lower	Upper
43	100		
70	13.9	41.4	62.0#
55	0.0	21.3	31.9#
61	0.0	21.2	31.8#



#76
1,2,3-Trichloropropane
Concen: 25.246 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.141 min
Lab File: VN076079.D
Acq: 04 Jan 2023 14:17

Tgt Ion:	75	Resp:	98701
Ion	Ratio	Lower	Upper
75	100		
77	1.1	82.6	247.8#

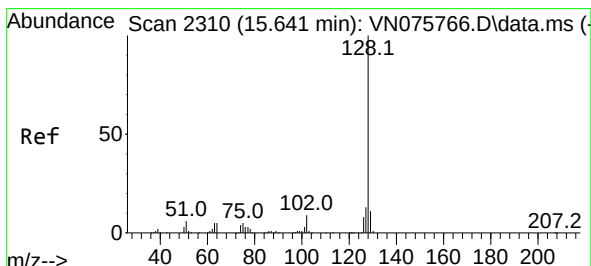
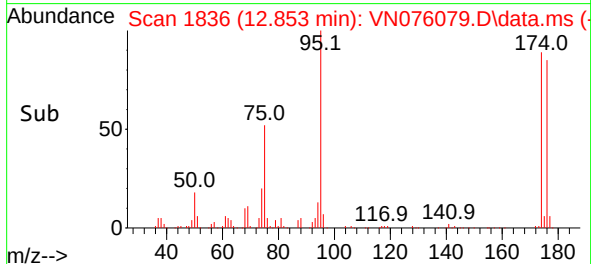
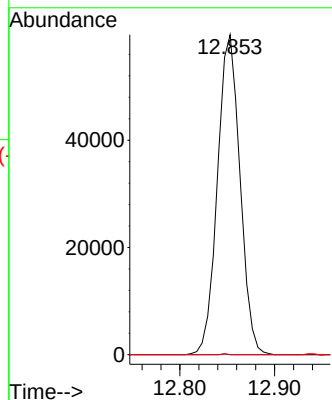
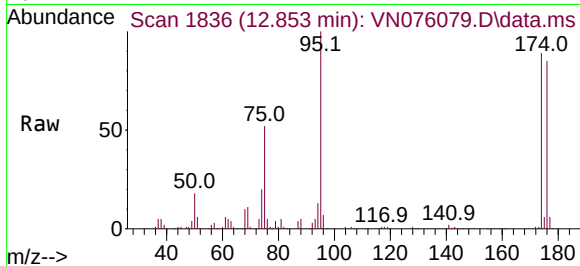




#81
trans-1,4-Dichloro-2-butene
Concen: 90.873 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.112 min
Lab File: VN076079.D
Acq: 04 Jan 2023 14:17

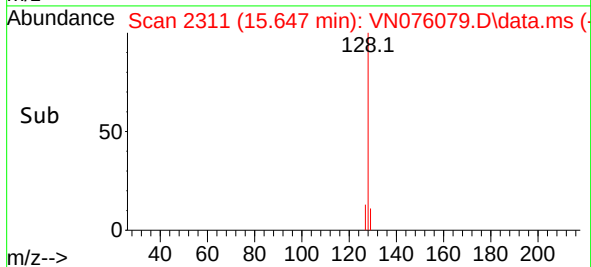
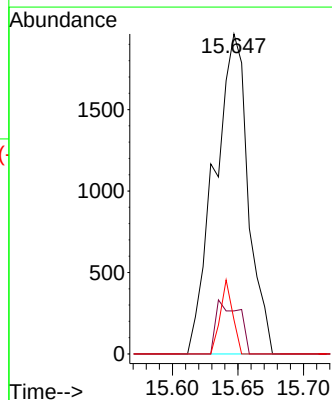
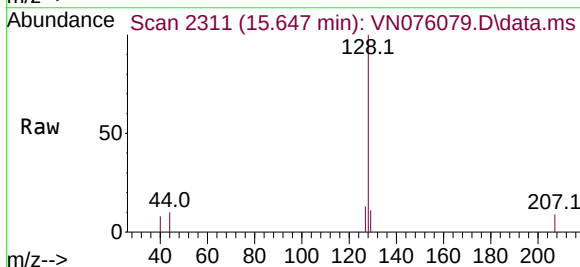
Instrument :
MSVOA_N
ClientSampleId :
PB150013TB

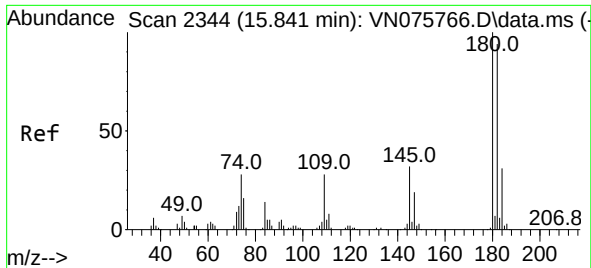
Tgt Ion: 75 Resp: 98701
Ion Ratio Lower Upper
75 100
53 0.1 73.8 110.6#
89 0.1 39.5 59.3#



#95
Naphthalene
Concen: 2.497 ug/l
RT: 15.647 min Scan# 2311
Delta R.T. 0.006 min
Lab File: VN076079.D
Acq: 04 Jan 2023 14:17

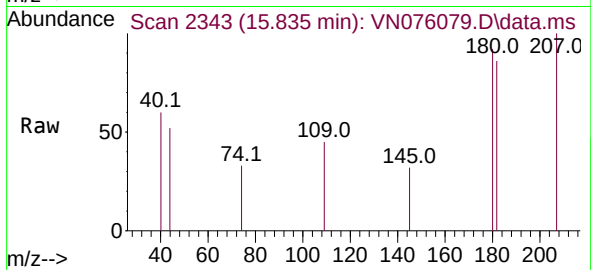
Tgt Ion:128 Resp: 3521
Ion Ratio Lower Upper
128 100
127 11.4 10.4 15.6
129 8.5 8.7 13.1#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.284 ug/l
 RT: 15.835 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VN076079.D
 Acq: 04 Jan 2023 14:17

Instrument :
 MSVOA_N
 ClientSampleId :
 PB150013TB



Tgt Ion:180 Resp: 849
 Ion Ratio Lower Upper
 180 100
 182 75.0 47.0 141.0
 145 24.6 16.0 47.9

