

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072221\
 Data File : VN067865.D
 Acq On : 22 Jul 2021 16:16
 Operator : JC/MD
 Sample : M3120-02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 24 07:13:54 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N071421W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 14 01:19:19 2021
 Response via : Initial Calibration

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

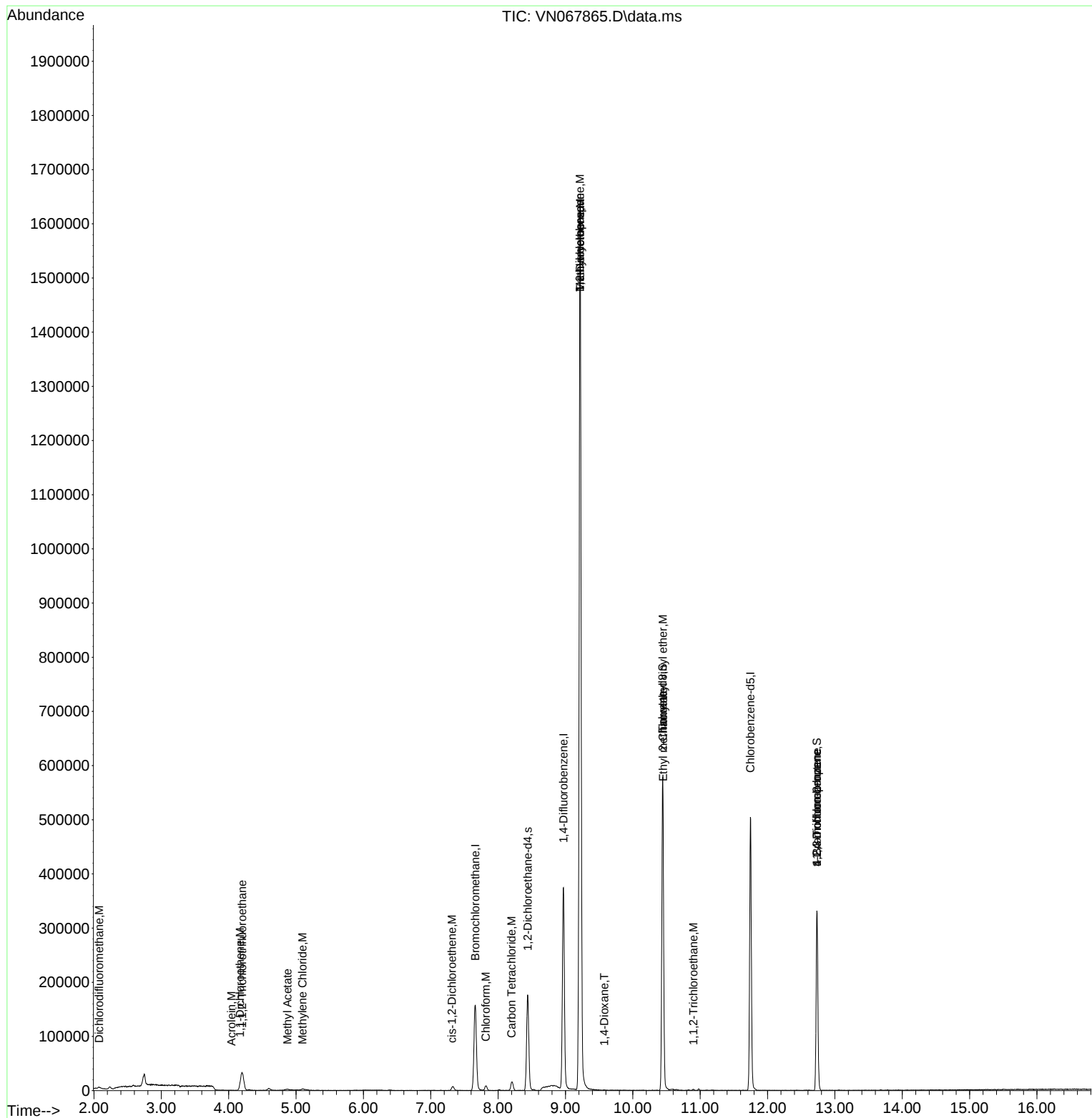
Internal Standards						
1) Bromochloromethane	7.662	128	56982	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.970	114	318824	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.746	117	286737	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.439	65	149555	32.487	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	108.300%
60) 4-Bromofluorobenzene	12.733	95	116193	24.952	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	83.167%
63) Toluene-d8	10.443	98	407704	30.914	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	103.033%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.078	85	1814	0.623	ug/l	82
9) 1,1,2-Trichlorotrifluo...	4.199	101	19417	6.506	ug/l	81
10) 1,1-Dichloroethene	4.170	96	2601	0.941	ug/l	97
12) Methyl Acetate	4.872	43	2576	0.683	ug/l #	69
13) Acrolein	4.041	56	81	0.205	ug/l #	49
18) Methylene Chloride	5.095	84	967	0.253	ug/l #	60
22) cis-1,2-Dichloroethene	7.316	96	1421	0.349	ug/l #	9
25) Chloroform	7.817	83	8396	1.191	ug/l	86
33) Carbon Tetrachloride	8.201	117	11786	2.247	ug/l	94
37) Trichloroethene	9.217	130	554495	142.741	ug/l	99
38) Methylcyclohexane	9.214	83	7873	1.421	ug/l #	1
39) 1,2-Dichloropropane	9.214	63	2242	0.588	ug/l #	1
45) 1,4-Dioxane	9.577	88	279	4.333	ug/l #	2
50) 1,1,2-Trichloroethane	10.901	97	841	0.215	ug/l #	80
51) Ethyl methacrylate	10.451	69	1604	0.264	ug/l #	69
55) 2-Chloroethyl vinyl ether	10.448	63	383	0.325	ug/l #	1
72) 1,2,3-Trichloropropane	12.733	75	67051	15.665	ug/l	1
77) t-1,4-Dichloro-2-butene	12.733	75	67051	46.419	ug/l #	4

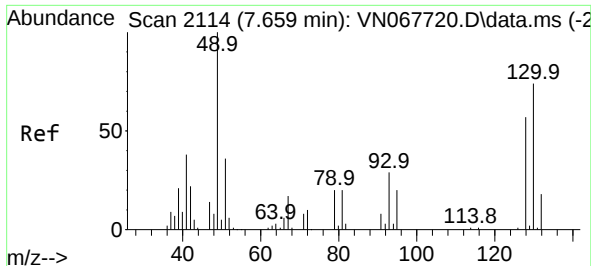
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072221\
Data File : VN067865.D
Acq On : 22 Jul 2021 16:16
Operator : JC/MD
Sample : M3120-02
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Jul 24 07:13:54 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N071421W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jul 14 01:19:19 2021
Response via : Initial Calibration

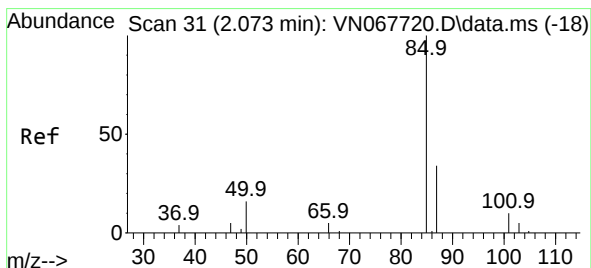
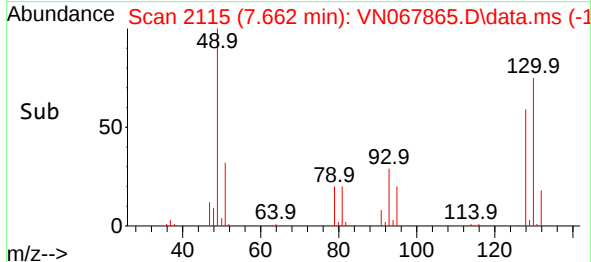
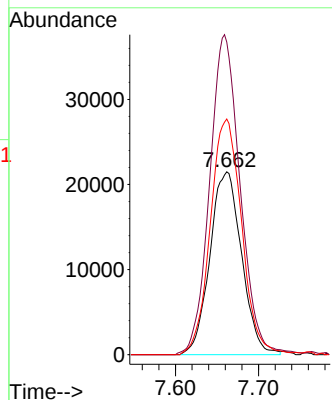
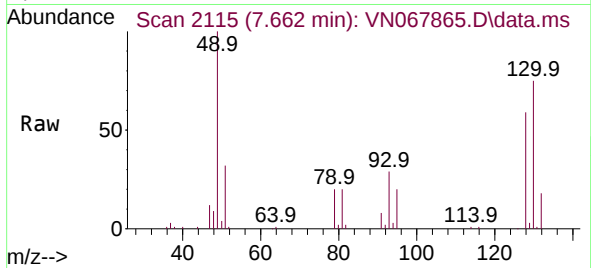




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.662 min Scan# 2115
Delta R.T. 0.003 min
Lab File: VN067865.D
Acq: 22 Jul 2021 16:16

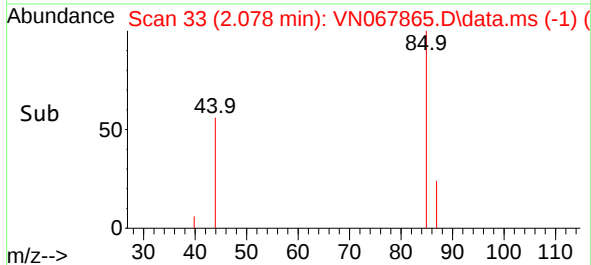
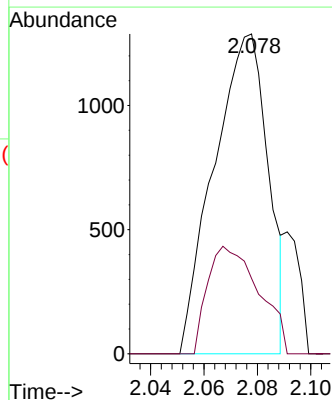
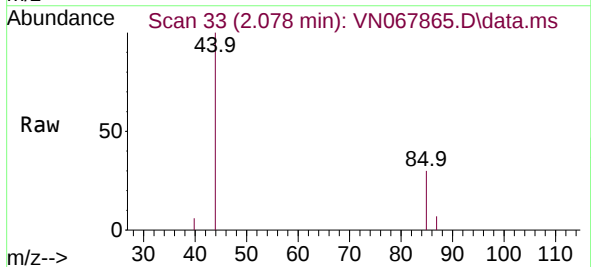
Instrument :
MSVOA_N
ClientSampleId :

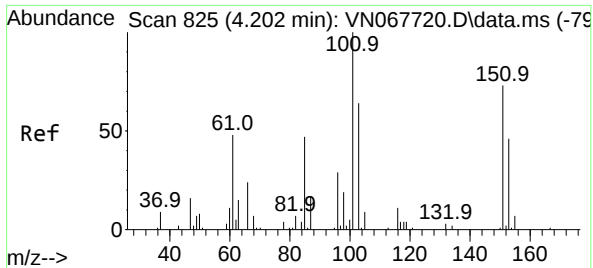
Tgt Ion:128 Resp: 56982
Ion Ratio Lower Upper
128 100
49 168.3 0.0 433.0
130 127.7 0.0 323.8



#2
Dichlorodifluoromethane
Concen: 0.623 ug/l
RT: 2.078 min Scan# 33
Delta R.T. 0.005 min
Lab File: VN067865.D
Acq: 22 Jul 2021 16:16

Tgt Ion: 85 Resp: 1814
Ion Ratio Lower Upper
85 100
87 23.6 17.0 50.9

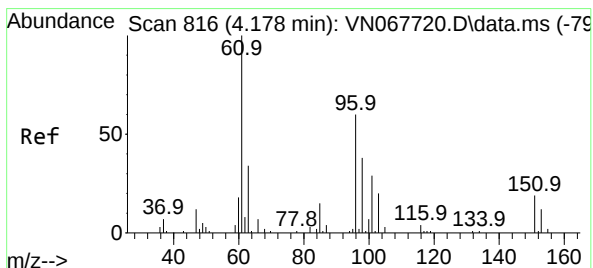
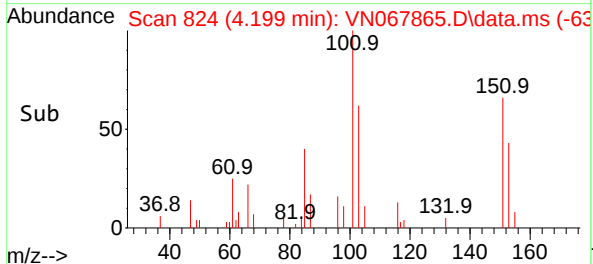
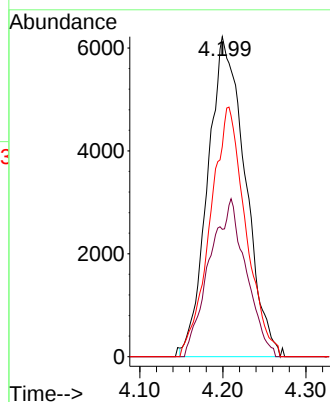
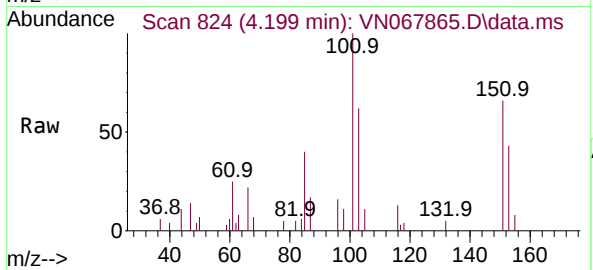




#9
1,1,2-Trichlorotrifluoroethane
Concen: 6.506 ug/l
RT: 4.199 min Scan# 824
Delta R.T. -0.003 min
Lab File: VN067865.D
Acq: 22 Jul 2021 16:16

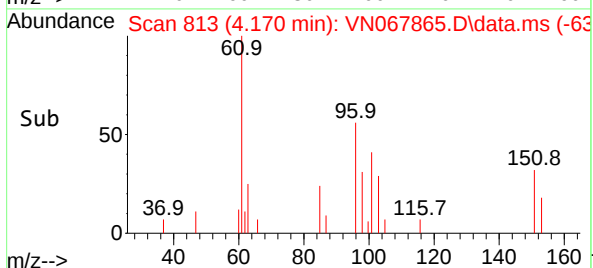
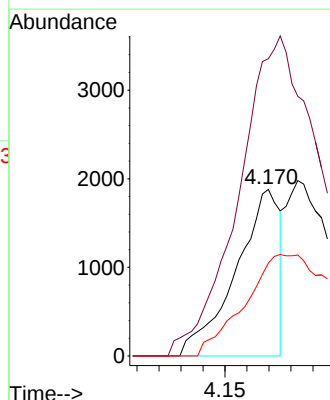
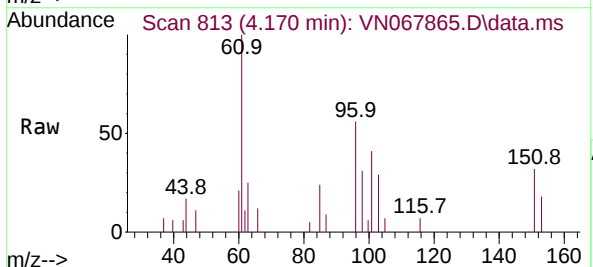
Instrument :
MSVOA_N
ClientSampleId :

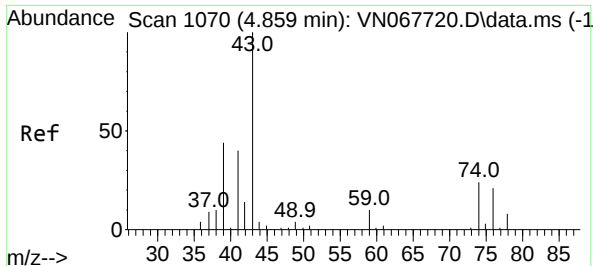
Tgt Ion:101 Resp: 19417
Ion Ratio Lower Upper
101 100
85 20.0 0.0 98.0
151 74.4 0.0 143.8



#10
1,1-Dichloroethene
Concen: 0.941 ug/l
RT: 4.170 min Scan# 813
Delta R.T. -0.008 min
Lab File: VN067865.D
Acq: 22 Jul 2021 16:16

Tgt Ion: 96 Resp: 2601
Ion Ratio Lower Upper
96 100
61 167.5 133.9 200.9
98 55.7 50.5 75.7

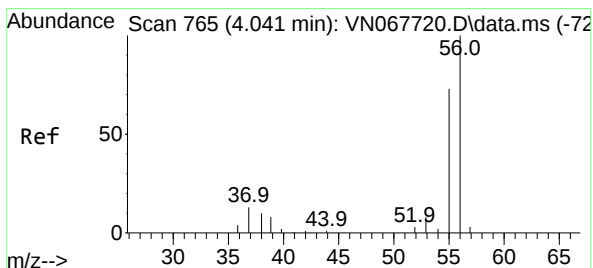
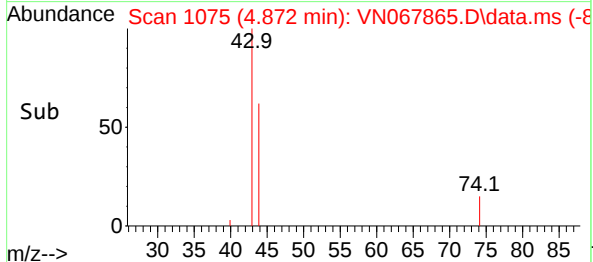
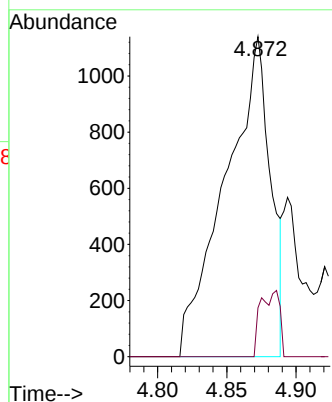
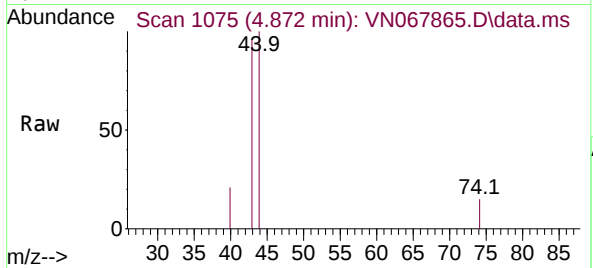




#12
Methyl Acetate
Concen: 0.683 ug/l
RT: 4.872 min Scan# 1075
Delta R.T. 0.013 min
Lab File: VN067865.D
Acq: 22 Jul 2021 16:16

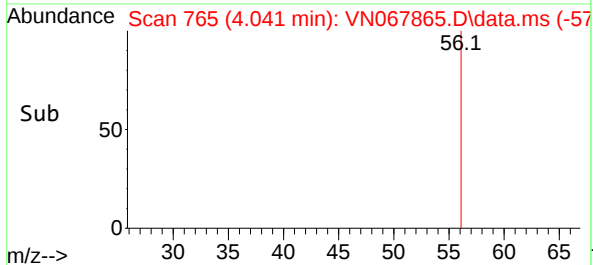
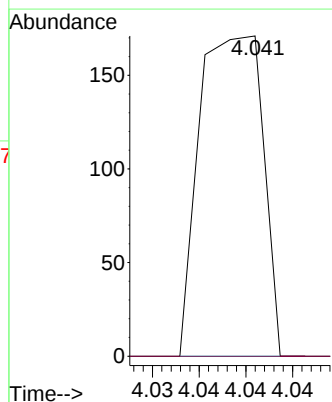
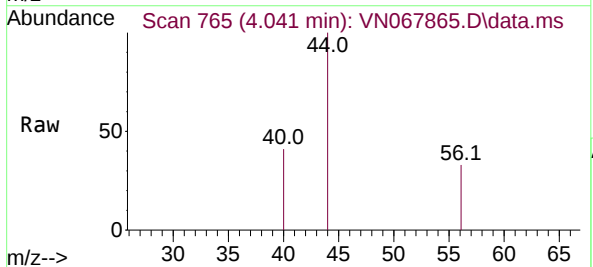
Instrument :
MSVOA_N
ClientSampled :

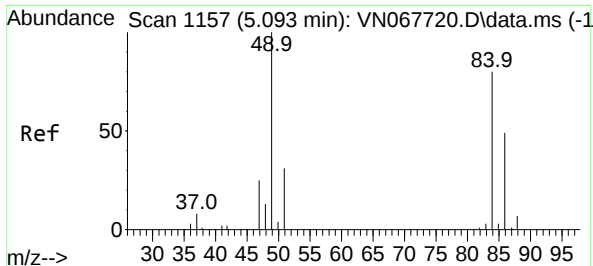
Tgt Ion: 43 Resp: 2576
Ion Ratio Lower Upper
43 100
74 9.5 19.8 29.6#



#13
Acrolein
Concen: 0.205 ug/l
RT: 4.041 min Scan# 765
Delta R.T. -0.000 min
Lab File: VN067865.D
Acq: 22 Jul 2021 16:16

Tgt Ion: 56 Resp: 81
Ion Ratio Lower Upper
56 100
55 65.4 0.2 0.2#





#18

Methylene Chloride

Concen: 0.253 ug/l

RT: 5.095 min Scan# 1158

Delta R.T. 0.002 min

Lab File: VN067865.D

Acq: 22 Jul 2021 16:16

Instrument :
MSVOA_N
ClientSampled :

Tgt Ion: 84 Resp: 967

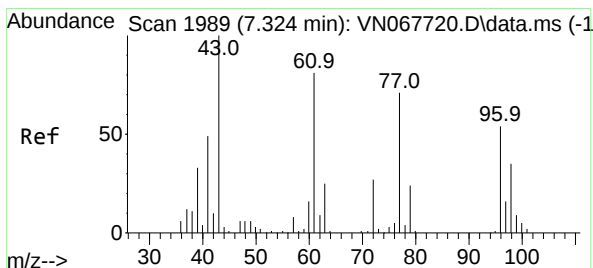
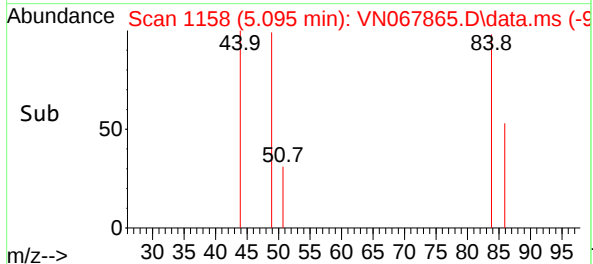
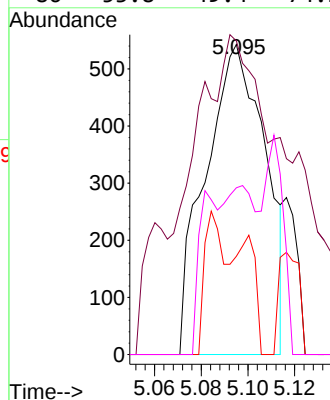
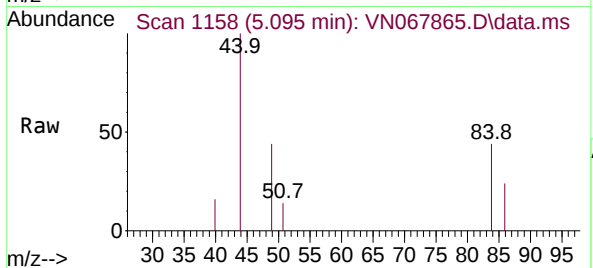
Ion Ratio Lower Upper

84 100

49 54.0 100.5 150.7#

51 31.7 30.7 46.1

86 53.8 49.4 74.2



#22

cis-1,2-Dichloroethene

Concen: 0.349 ug/l

RT: 7.316 min Scan# 1986

Delta R.T. -0.008 min

Lab File: VN067865.D

Acq: 22 Jul 2021 16:16

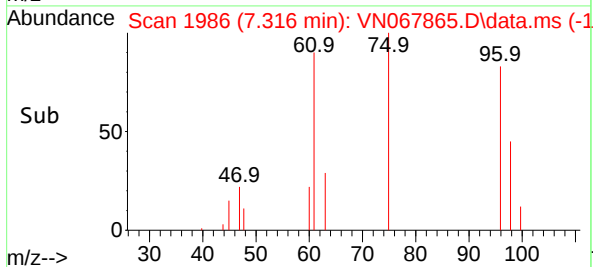
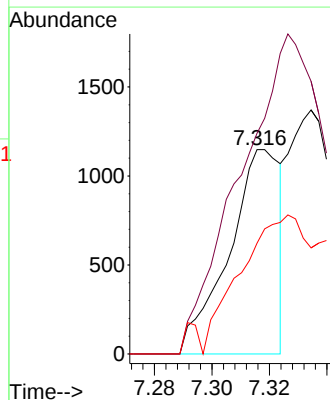
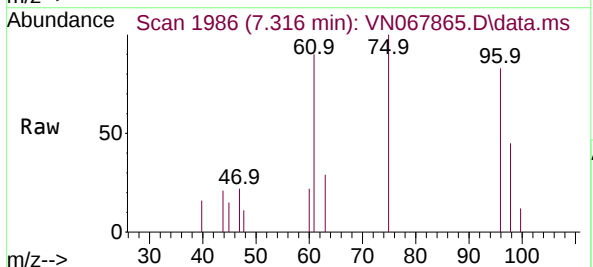
Tgt Ion: 96 Resp: 1421

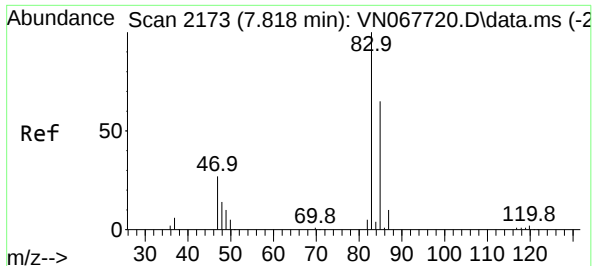
Ion Ratio Lower Upper

96 100

61 300.6 121.2 181.8#

98 88.2 51.8 77.8#





#25

Chloroform

Concen: 1.191 ug/l

RT: 7.817 min Scan# 2173

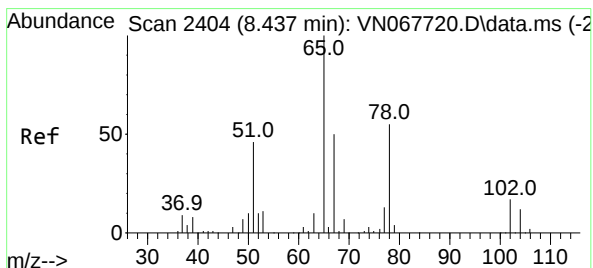
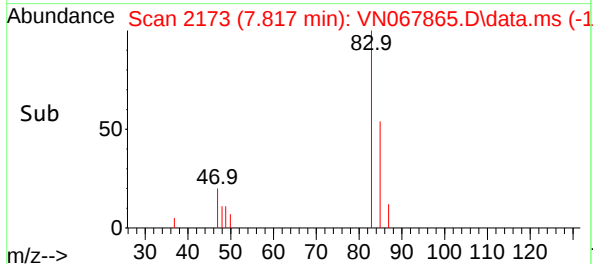
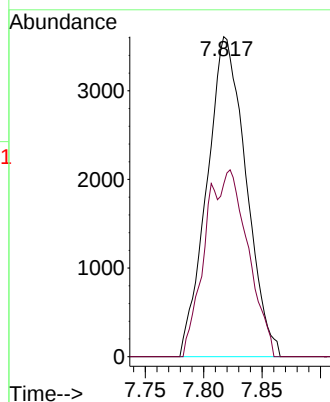
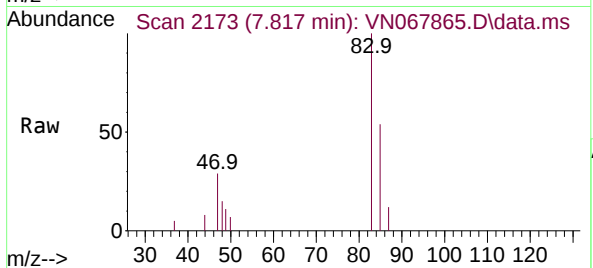
Delta R.T. -0.000 min

Lab File: VN067865.D

Acq: 22 Jul 2021 16:16

Instrument :
MSVOA_N
ClientSampled :

Tgt Ion: 83 Resp: 8396
Ion Ratio Lower Upper
83 100
85 53.9 52.3 78.5



#27

1,2-Dichloroethane-d4

Concen: 32.487 ug/l

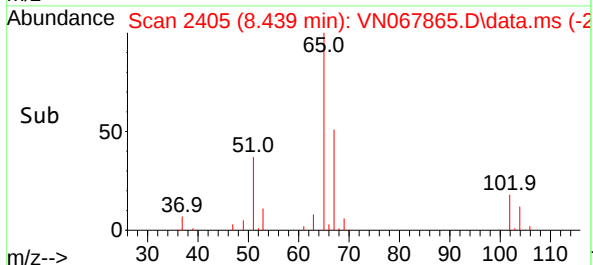
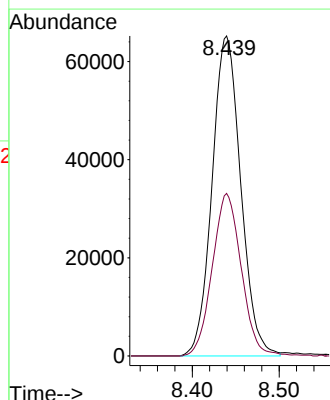
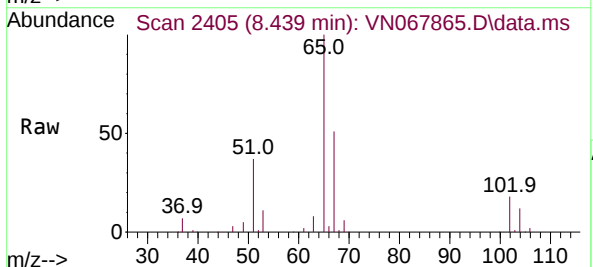
RT: 8.439 min Scan# 2405

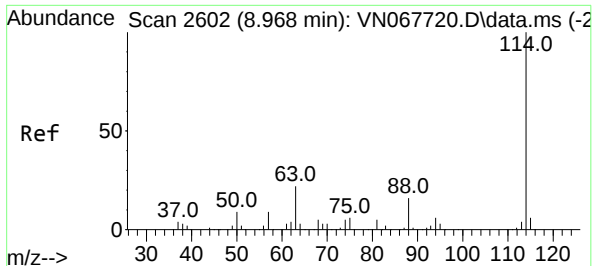
Delta R.T. 0.002 min

Lab File: VN067865.D

Acq: 22 Jul 2021 16:16

Tgt Ion: 65 Resp: 149555
Ion Ratio Lower Upper
65 100
67 51.3 40.6 60.8





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.970 min Scan# 2603

Delta R.T. 0.002 min

Lab File: VN067865.D

Acq: 22 Jul 2021 16:16

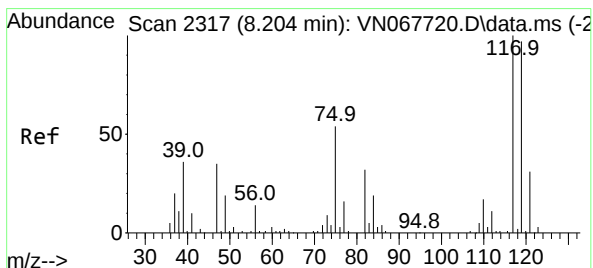
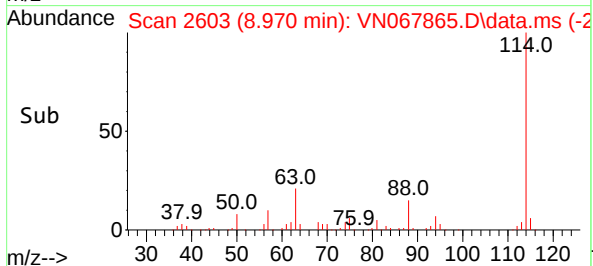
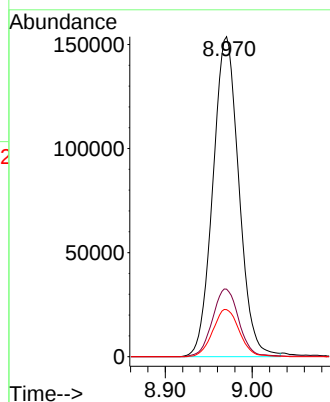
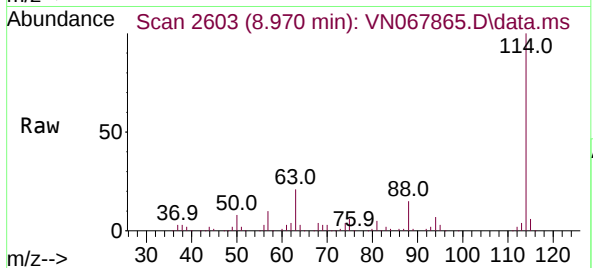
Tgt Ion:114 Resp: 318824

Ion Ratio Lower Upper

114 100

63 21.6 17.2 25.8

88 15.1 12.4 18.6



#33

Carbon Tetrachloride

Concen: 2.247 ug/l

RT: 8.201 min Scan# 2316

Delta R.T. -0.003 min

Lab File: VN067865.D

Acq: 22 Jul 2021 16:16

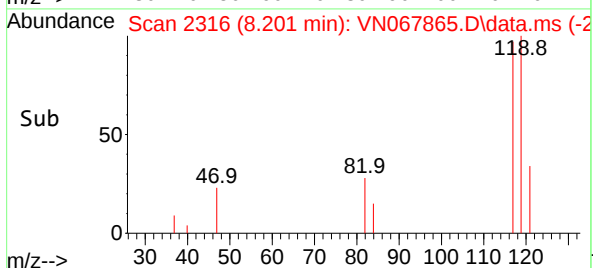
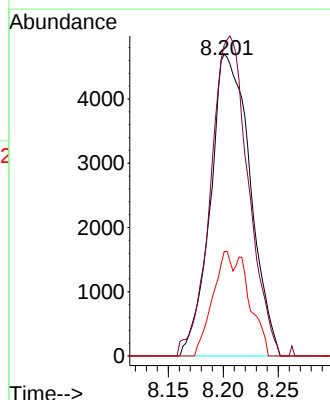
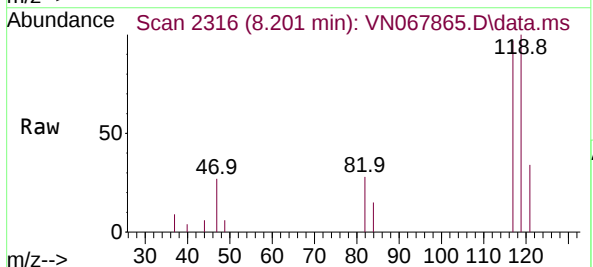
Tgt Ion:117 Resp: 11786

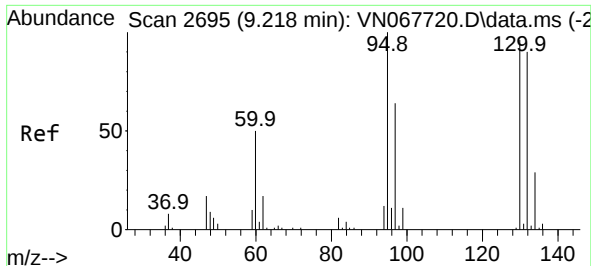
Ion Ratio Lower Upper

117 100

119 103.0 77.6 116.4

121 34.6 24.6 36.8

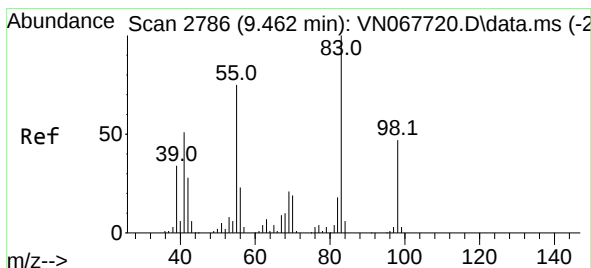
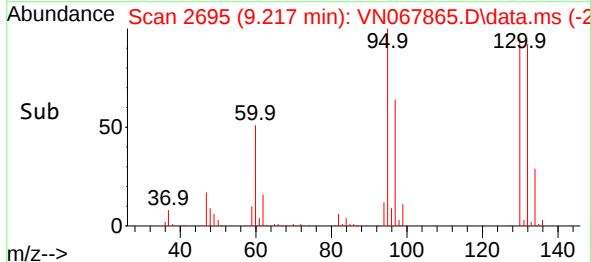
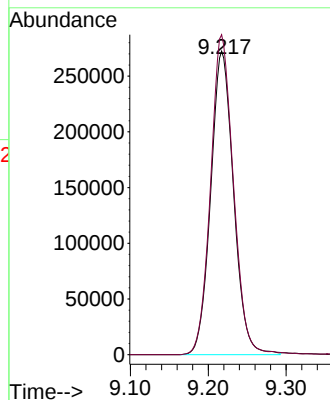
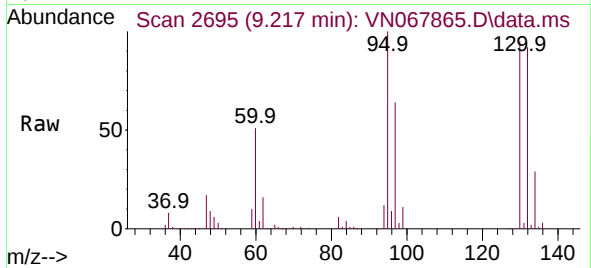




#37
Trichloroethene
Concen: 142.741 ug/l
RT: 9.217 min Scan# 2695
Delta R.T. -0.000 min
Lab File: VN067865.D
Acq: 22 Jul 2021 16:16

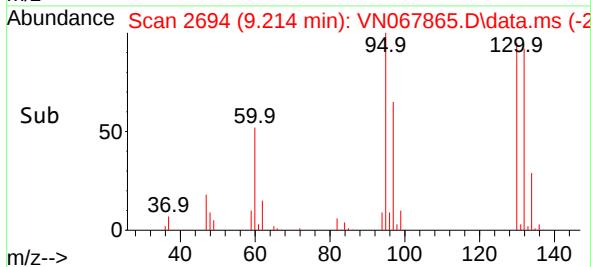
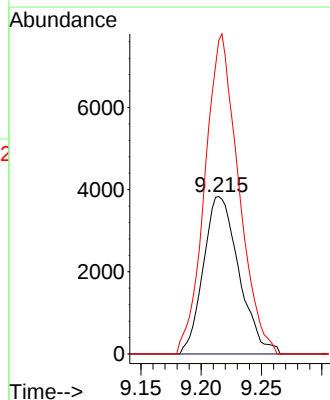
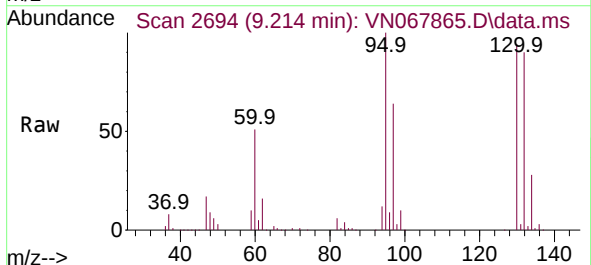
Instrument :
MSVOA_N
ClientSampleId :

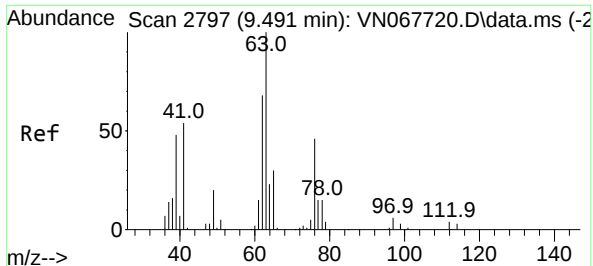
Tgt Ion:130 Resp: 554495
Ion Ratio Lower Upper
130 100
95 105.4 83.2 124.8



#38
Methylcyclohexane
Concen: 1.421 ug/l
RT: 9.214 min Scan# 2694
Delta R.T. -0.247 min
Lab File: VN067865.D
Acq: 22 Jul 2021 16:16

Tgt Ion: 83 Resp: 7873
Ion Ratio Lower Upper
83 100
55 0.0 37.4 112.2#
98 192.7 23.5 70.6#



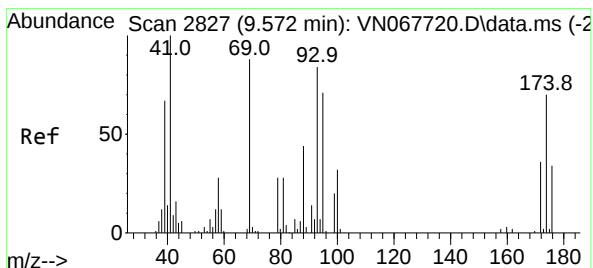
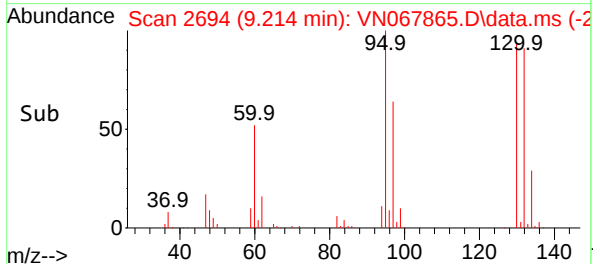
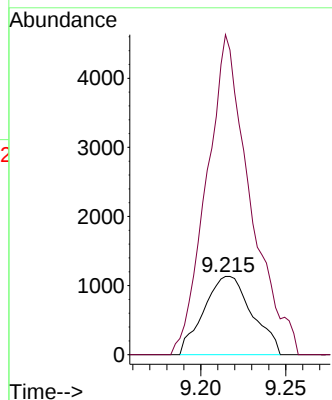
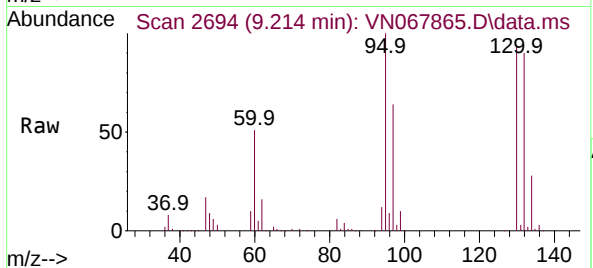


#39

1,2-Dichloropropane
Concen: 0.588 ug/l
RT: 9.214 min Scan# 2694
Delta R.T. -0.277 min
Lab File: VN067865.D
Acq: 22 Jul 2021 16:16

Instrument :
MSVOA_N
ClientSampleId :

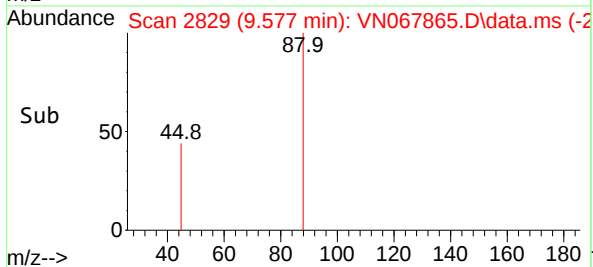
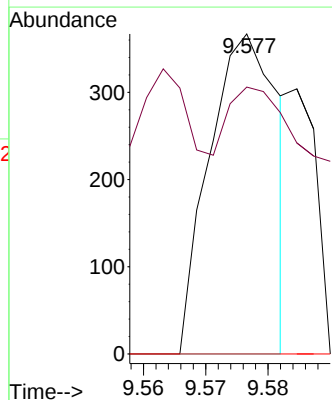
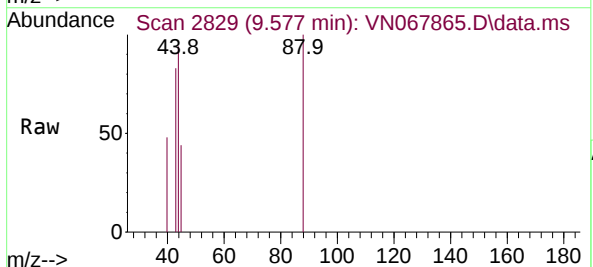
Tgt Ion: 63 Resp: 2242
Ion Ratio Lower Upper
63 100
65 388.5 24.3 36.5#

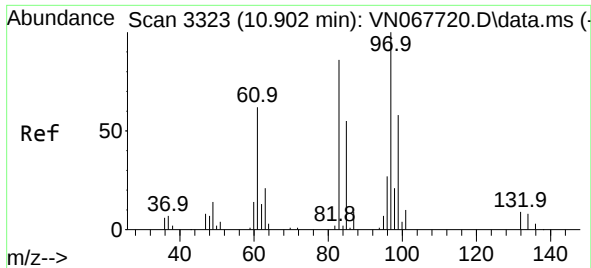


#45

1,4-Dioxane
Concen: 4.333 ug/l
RT: 9.577 min Scan# 2829
Delta R.T. 0.005 min
Lab File: VN067865.D
Acq: 22 Jul 2021 16:16

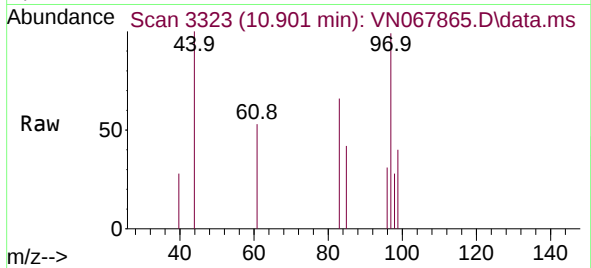
Tgt Ion: 88 Resp: 279
Ion Ratio Lower Upper
88 100
43 107.2 26.9 40.3#
58 0.0 52.2 78.4#



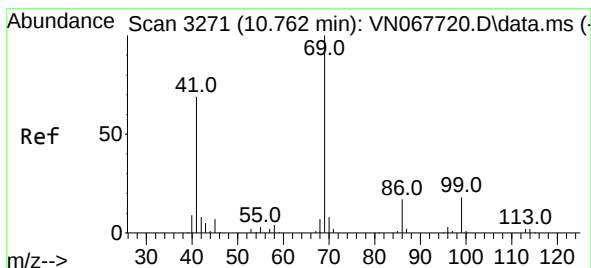
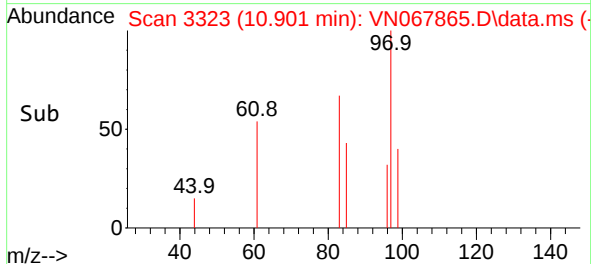
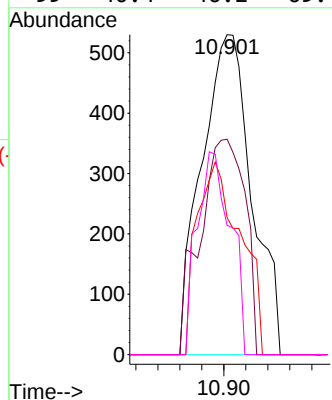


#50
1,1,2-Trichloroethane
Concen: 0.215 ug/l
RT: 10.901 min Scan# 3323
Delta R.T. -0.000 min
Lab File: VN067865.D
Acq: 22 Jul 2021 16:16

Instrument :
MSVOA_N
ClientSampleId :

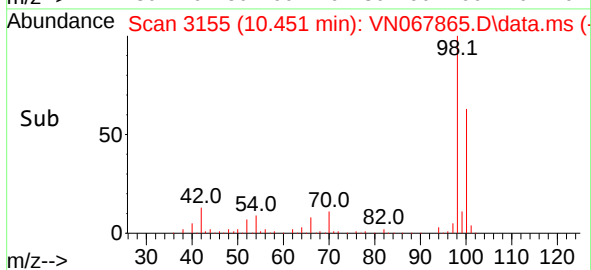
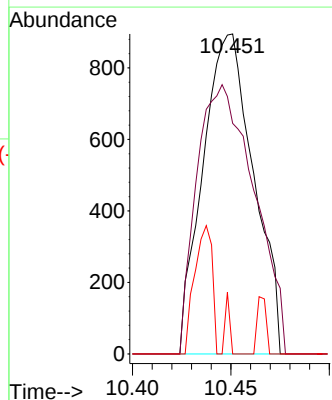
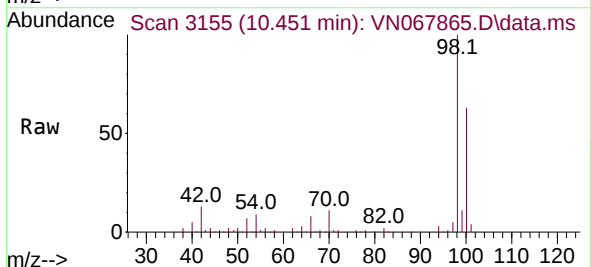


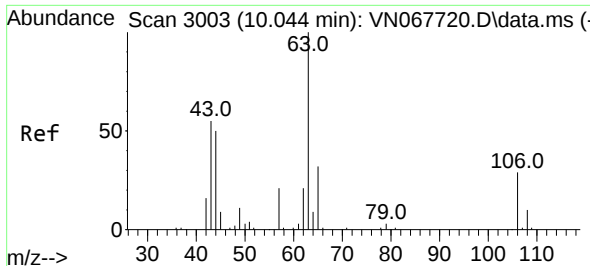
Tgt Ion	Ratio	Lower	Upper
97	100		
83	67.4	69.0	103.4#
85	42.8	43.8	65.8#
99	40.4	46.2	69.4#



#51
Ethyl methacrylate
Concen: 0.264 ug/l
RT: 10.451 min Scan# 3155
Delta R.T. -0.311 min
Lab File: VN067865.D
Acq: 22 Jul 2021 16:16

Tgt Ion	Ratio	Lower	Upper
69	100		
41	72.1	34.3	102.9
39	0.0	23.7	71.1#

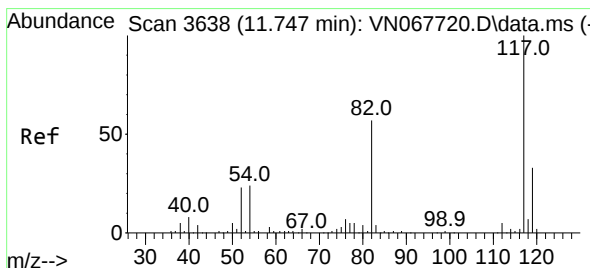
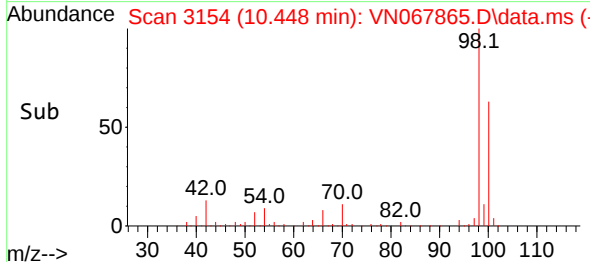
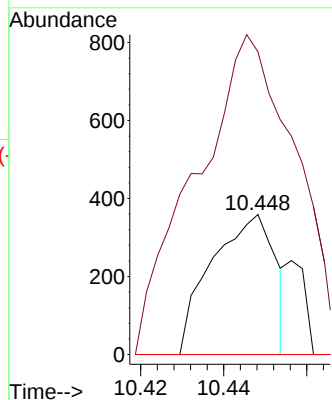
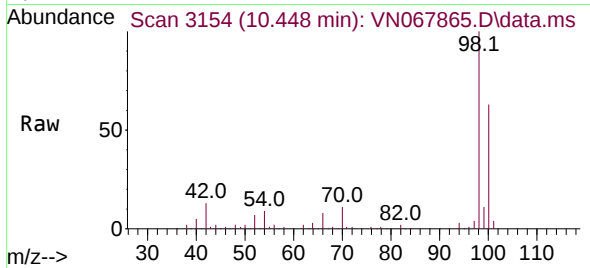




#55
2-Chloroethyl vinyl ether
Concen: 0.325 ug/l
RT: 10.448 min Scan# 3154
Delta R.T. 0.405 min
Lab File: VN067865.D
Acq: 22 Jul 2021 16:16

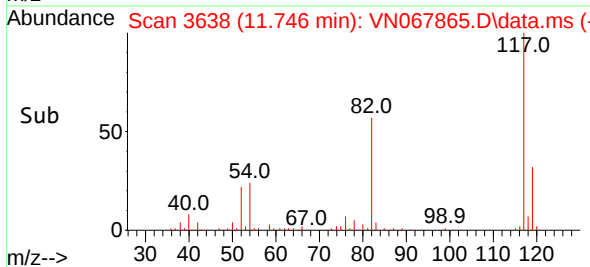
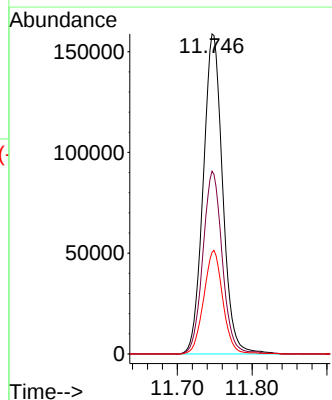
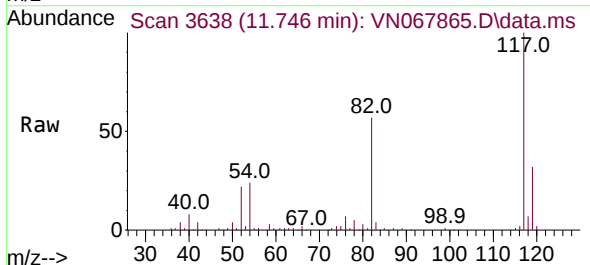
Instrument :
MSVOA_N
ClientSampled :

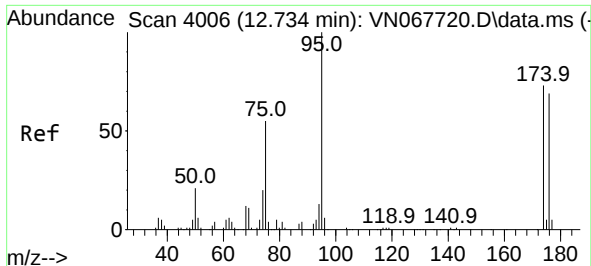
Tgt Ion: 63 Resp: 383
Ion Ratio Lower Upper
63 100
65 356.4 25.5 38.3#
106 0.0 22.1 33.1#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.746 min Scan# 3638
Delta R.T. -0.000 min
Lab File: VN067865.D
Acq: 22 Jul 2021 16:16

Tgt Ion: 117 Resp: 286737
Ion Ratio Lower Upper
117 100
82 56.7 45.4 68.0
119 31.7 25.7 38.5

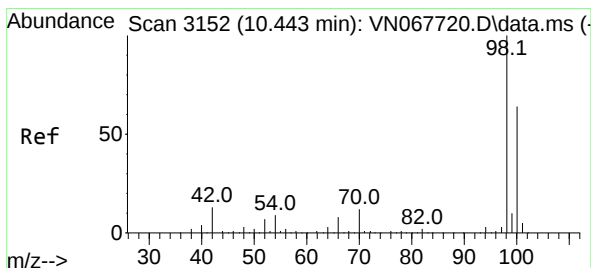
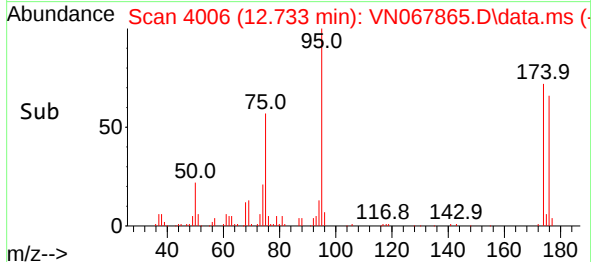
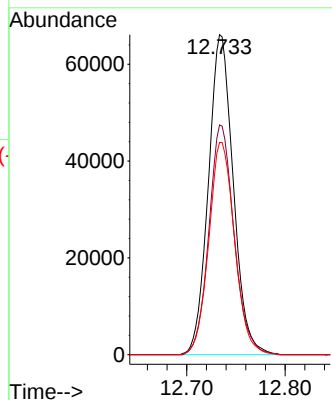
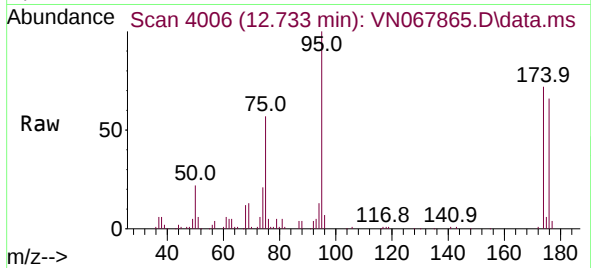




#60
4-Bromofluorobenzene
Concen: 24.952 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. -0.000 min
Lab File: VN067865.D
Acq: 22 Jul 2021 16:16

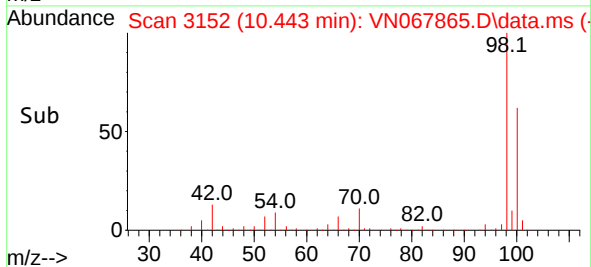
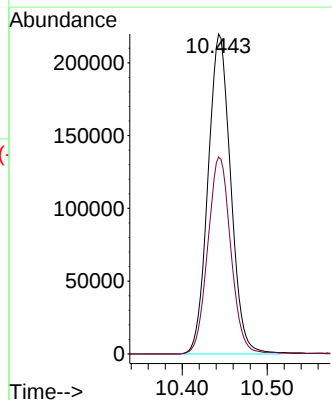
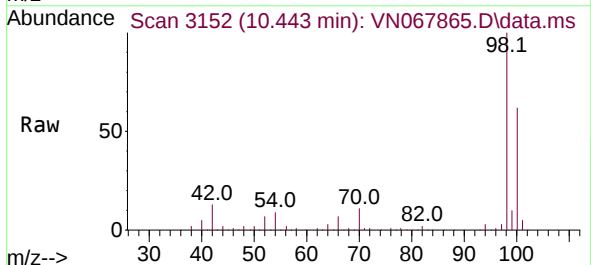
Instrument :
MSVOA_N
ClientSampleId :

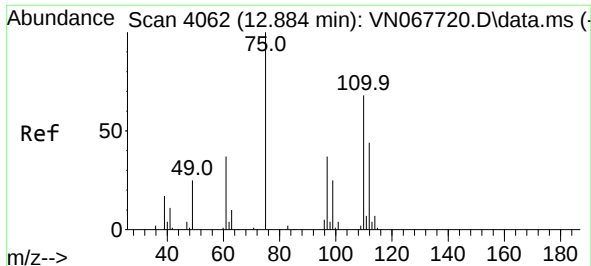
Tgt Ion: 95 Resp: 116193
Ion Ratio Lower Upper
95 100
174 72.6 57.1 85.7
176 68.9 54.6 81.8



#63
Toluene-d8
Concen: 30.914 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. -0.000 min
Lab File: VN067865.D
Acq: 22 Jul 2021 16:16

Tgt Ion: 98 Resp: 407704
Ion Ratio Lower Upper
98 100
100 62.2 51.0 76.4

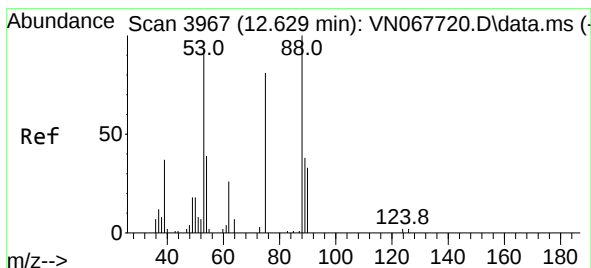
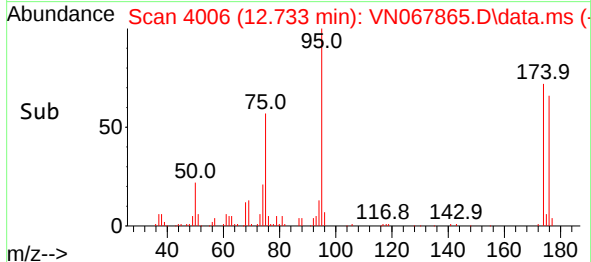
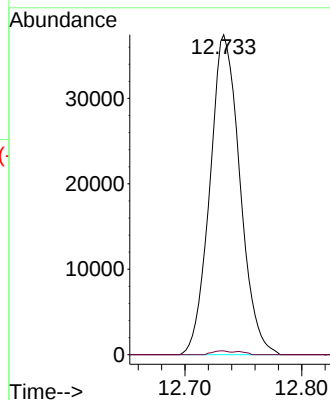
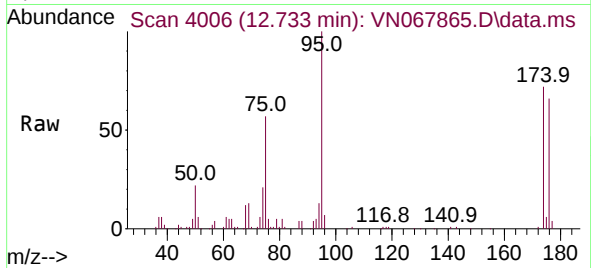




#72
1,2,3-Trichloropropane
Concen: 15.665 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. -0.151 min
Lab File: VN067865.D
Acq: 22 Jul 2021 16:16

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 75 Resp: 67051
Ion Ratio Lower Upper
75 100
77 0.7 0.0 365.2



#77
t-1,4-Dichloro-2-butene
Concen: 46.419 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.104 min
Lab File: VN067865.D
Acq: 22 Jul 2021 16:16

Tgt Ion: 75 Resp: 67051
Ion Ratio Lower Upper
75 100
53 0.0 57.0 171.0#
89 0.0 24.7 74.1#

