

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041222\
 Data File : VN071962.D
 Acq On : 12 Apr 2022 18:38
 Operator : JC\MD
 Sample : N2349-16
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DEL-8

Quant Time: Apr 13 04:47:16 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N033022W.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 31 01:57:54 2022
 Response via : Initial Calibration

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

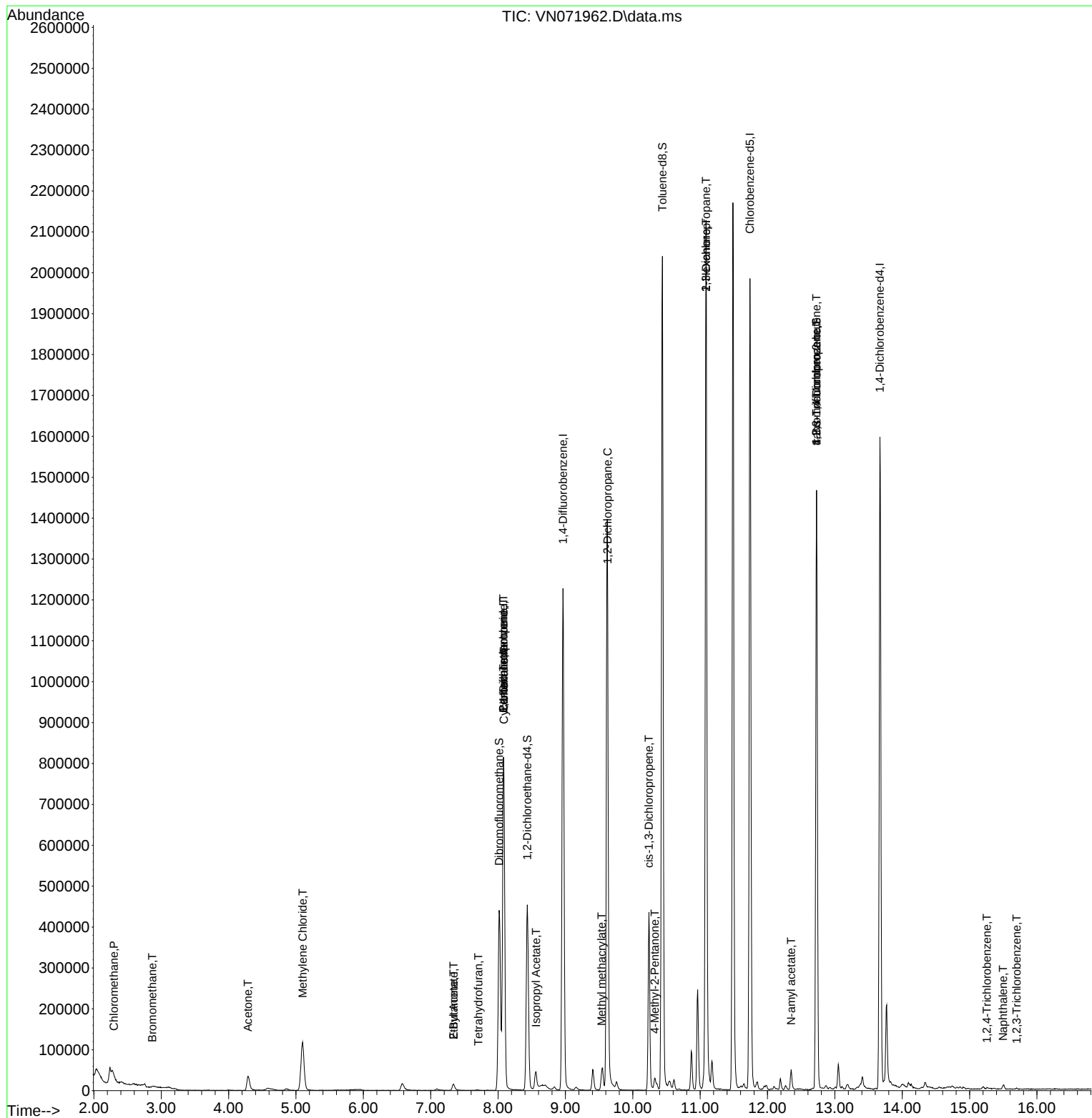
Internal Standards						
1) Pentafluorobenzene	8.081	168	688710	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.963	114	1161905	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.739	117	1238379	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.668	152	478911	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.433	65	371417	47.239	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	94.480%		
35) Dibromofluoromethane	8.016	113	333503	48.778	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	97.560%		
50) Toluene-d8	10.439	98	1476606	52.794	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	105.580%		
62) 4-Bromofluorobenzene	12.727	95	527314	58.295	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	116.580%		
Target Compounds					Qvalue	
3) Chloromethane	2.299	50	3150	0.454	ug/l #	72
5) Bromomethane	2.869	94	2218	0.448	ug/l	100
16) Acetone	4.287	43	64437	19.177	ug/l	99
18) Methyl Acetate	4.863	43	8621	Below Cal	#	88
20) Methylene Chloride	5.098	84	104128	14.703	ug/l	99
25) 2-Butanone	7.339	43	28315	5.845	ug/l	99
29) Tetrahydrofuran	7.710	42	844	0.269	ug/l #	58
31) Cyclohexane	8.086	56	11026	1.031	ug/l #	1
36) 1,1-Dichloropropene	8.081	75	46081	4.826	ug/l #	48
37) Ethyl Acetate	7.339	43	28315	2.709	ug/l #	67
38) Carbon Tetrachloride	8.081	117	60913	6.510	ug/l #	16
43) Isopropyl Acetate	8.563	43	52926	3.045	ug/l #	89
45) 1,2-Dichloropropane	9.627	63	2276	0.302	ug/l #	44
48) Methyl methacrylate	9.539	41	15484	2.147	ug/l #	20
49) 1,4-Dioxane	9.627	88	215	Below Cal	#	1
51) 4-Methyl-2-Pentanone	10.327	43	31327	3.135	ug/l #	78
54) cis-1,3-Dichloropropene	10.239	75	87917	7.539	ug/l #	57
57) 1,3-Dichloropropane	11.086	76	24905	1.898	ug/l #	42
59) 2-Hexanone	11.086	43	338204	48.067	ug/l #	52
74) N-amyl acetate	12.351	43	30463	2.635	ug/l #	45
76) 1,2,3-Trichloropropane	12.727	75	251458	22.665	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.727	75	251458	70.239	ug/l #	10
93) 1,2,4-Trichlorobenzene	15.257	180	857	2.194	ug/l	87
95) Naphthalene	15.498	128	11999	4.311	ug/l	98
96) 1,2,3-Trichlorobenzene	15.698	180	1063	2.551	ug/l #	80

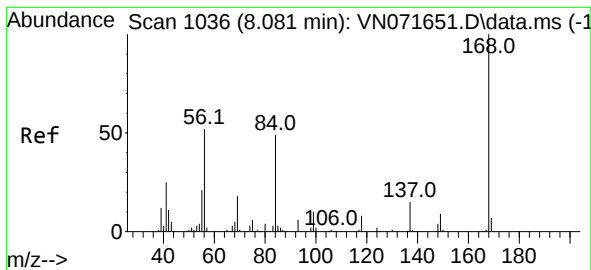
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Mar 31 01:57:54 2022
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.081 min Scan# 1036

Delta R.T. -0.000 min

Lab File: VN071962.D

Acq: 12 Apr 2022 18:38

Instrument :

MSVOA_N

ClientSampleId :

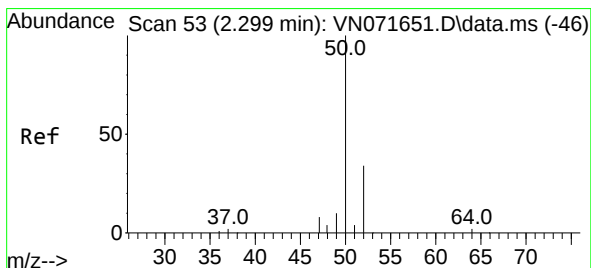
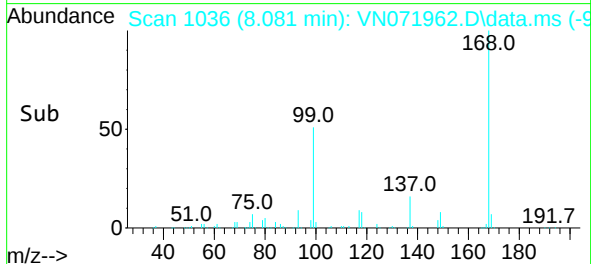
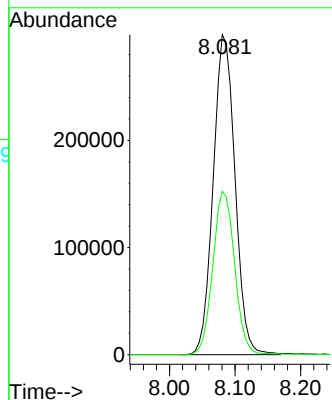
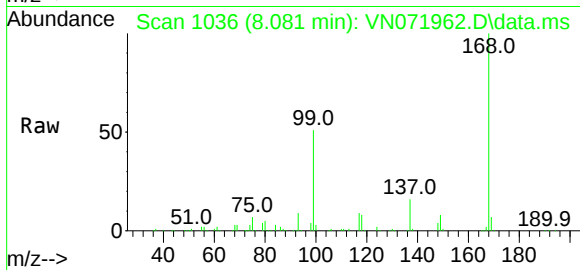
DEL-8

Tgt Ion:168 Resp: 688710

Ion Ratio Lower Upper

168 100

99 51.1 42.3 63.5



#3

Chloromethane

Concen: 0.454 ug/l

RT: 2.299 min Scan# 53

Delta R.T. -0.000 min

Lab File: VN071962.D

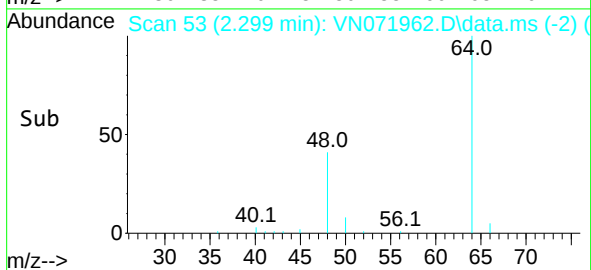
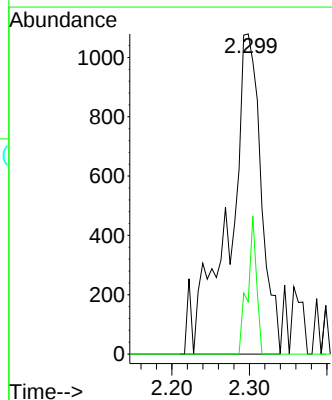
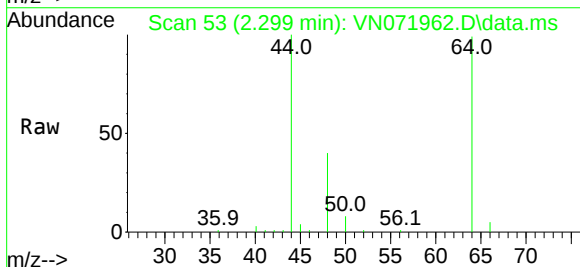
Acq: 12 Apr 2022 18:38

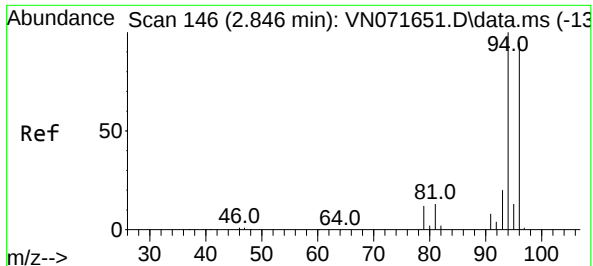
Tgt Ion: 50 Resp: 3150

Ion Ratio Lower Upper

50 100

52 16.4 25.7 38.5#

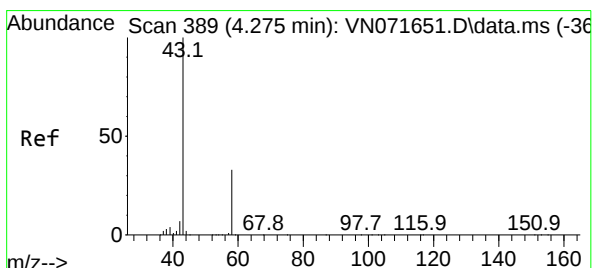
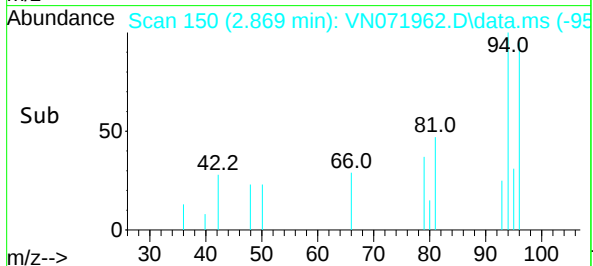
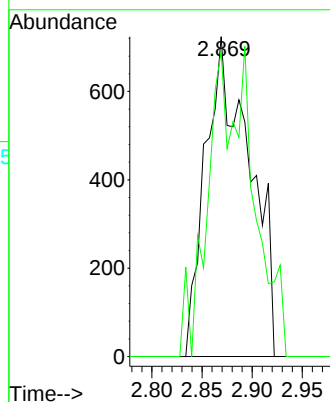
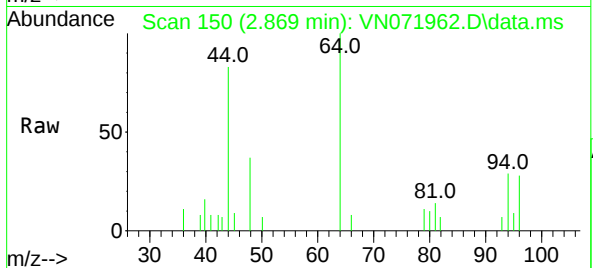




#5
Bromomethane
Concen: 0.448 ug/l
RT: 2.869 min Scan# 11
Delta R.T. 0.023 min
Lab File: VN071962.D
Acq: 12 Apr 2022 18:38

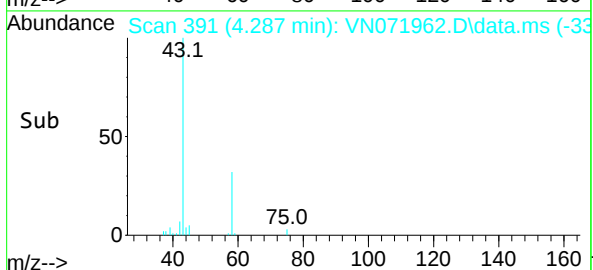
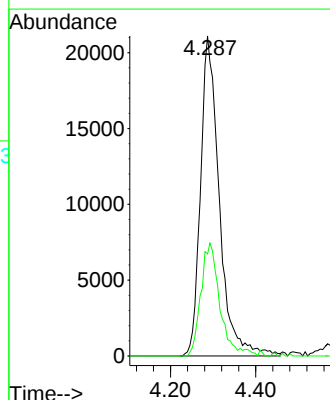
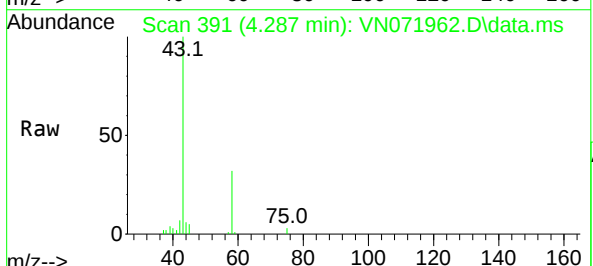
Instrument :
MSVOA_N
ClientSampleId :
DEL-8

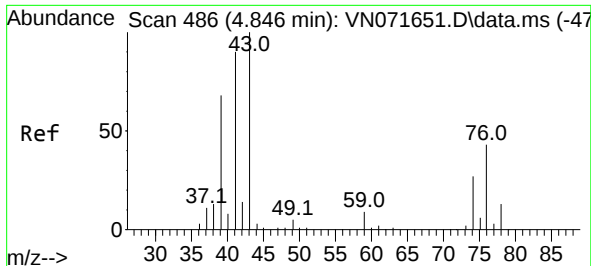
Tgt Ion: 94 Resp: 2218
Ion Ratio Lower Upper
94 100
96 95.3 76.0 114.0



#16
Acetone
Concen: 19.177 ug/l
RT: 4.287 min Scan# 391
Delta R.T. 0.012 min
Lab File: VN071962.D
Acq: 12 Apr 2022 18:38

Tgt Ion: 43 Resp: 64437
Ion Ratio Lower Upper
43 100
58 31.9 26.0 39.0

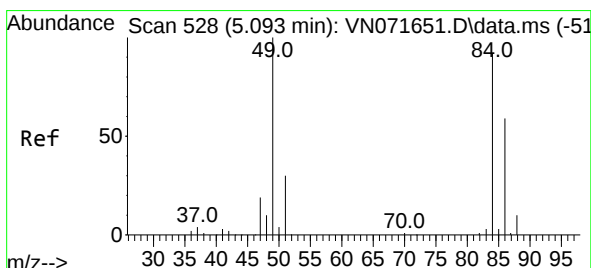
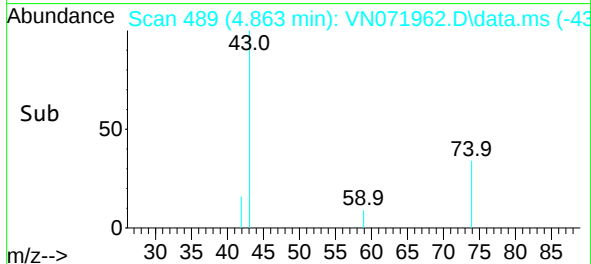
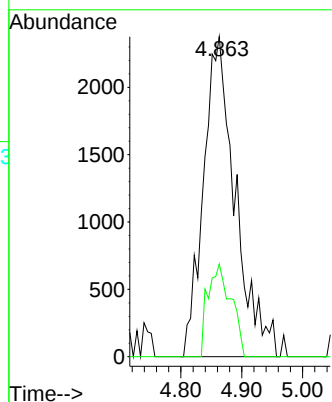
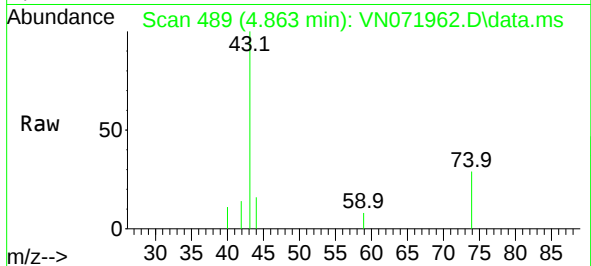




#18
Methyl Acetate
Concen: Below Cal
RT: 4.863 min Scan# 486
Delta R.T. 0.017 min
Lab File: VN071962.D
Acq: 12 Apr 2022 18:38

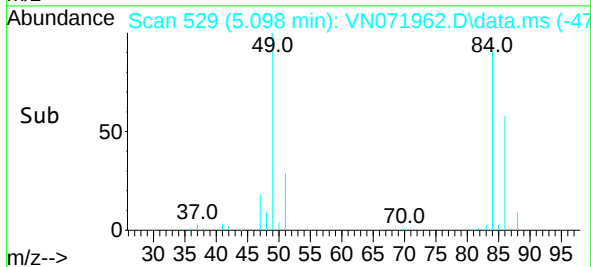
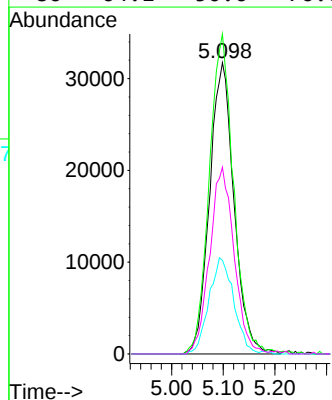
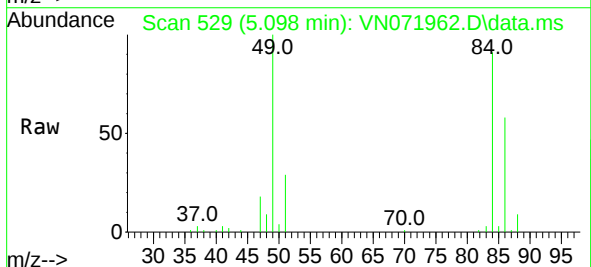
Instrument :
MSVOA_N
ClientSampleId :
DEL-8

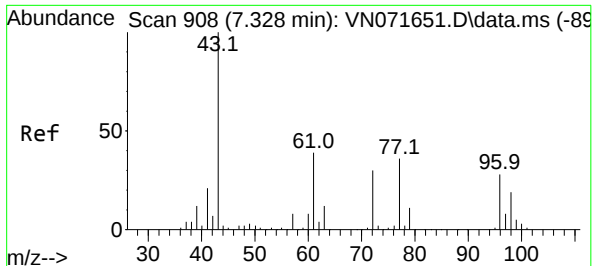
Tgt Ion: 43 Resp: 8621
Ion Ratio Lower Upper
43 100
74 21.0 21.6 32.4#



#20
Methylene Chloride
Concen: 14.703 ug/l
RT: 5.098 min Scan# 529
Delta R.T. 0.005 min
Lab File: VN071962.D
Acq: 12 Apr 2022 18:38

Tgt Ion: 84 Resp: 104128
Ion Ratio Lower Upper
84 100
49 109.9 88.3 132.5
51 32.1 28.2 42.2
86 64.1 50.6 76.0





#25

2-Butanone

Concen: 5.845 ug/l

RT: 7.339 min Scan# 910

Delta R.T. 0.011 min

Lab File: VN071962.D

Acq: 12 Apr 2022 18:38

Instrument :

MSVOA_N

ClientSampleId :

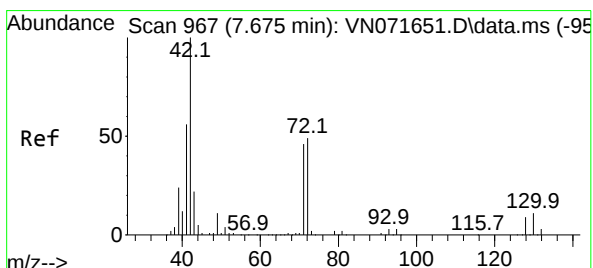
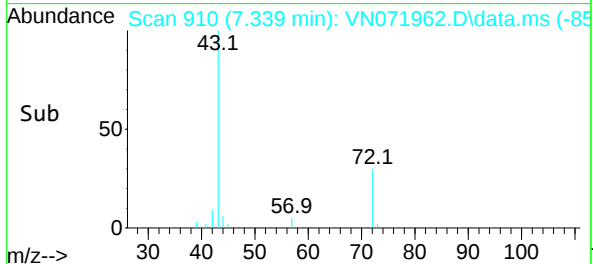
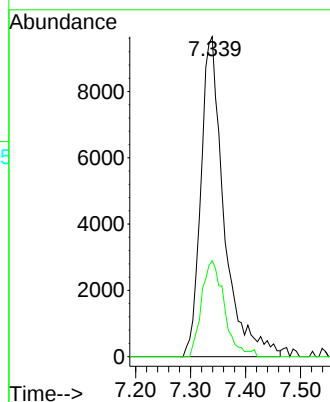
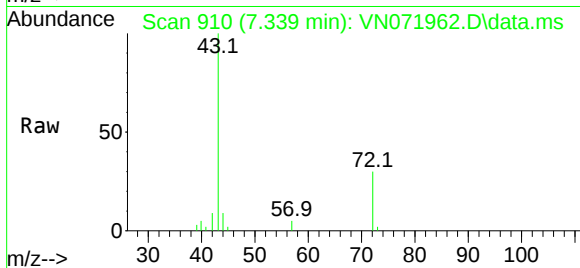
DEL-8

Tgt Ion: 43 Resp: 28315

Ion Ratio Lower Upper

43 100

72 30.0 23.7 35.5



#29

Tetrahydrofuran

Concen: 0.269 ug/l

RT: 7.710 min Scan# 973

Delta R.T. 0.035 min

Lab File: VN071962.D

Acq: 12 Apr 2022 18:38

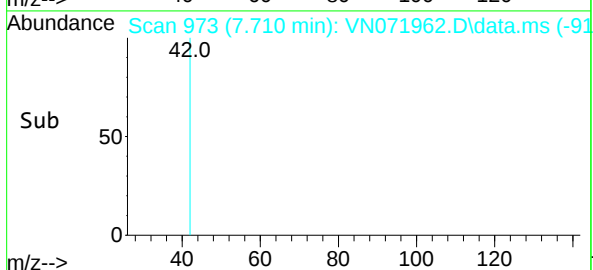
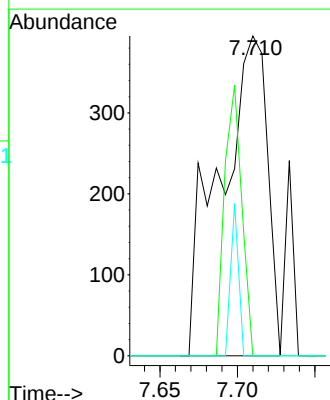
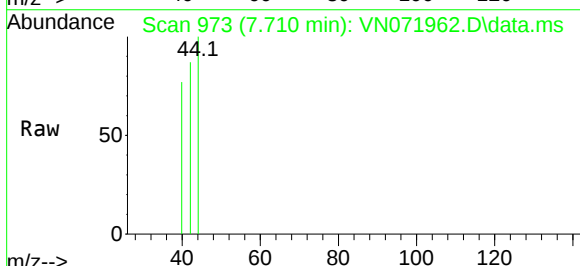
Tgt Ion: 42 Resp: 844

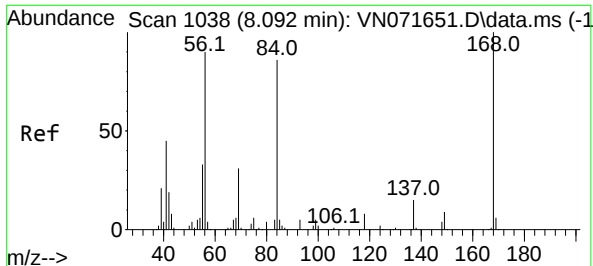
Ion Ratio Lower Upper

42 100

72 30.5 39.7 59.5#

71 7.8 36.6 55.0#

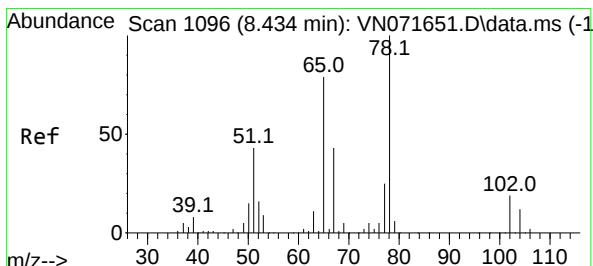
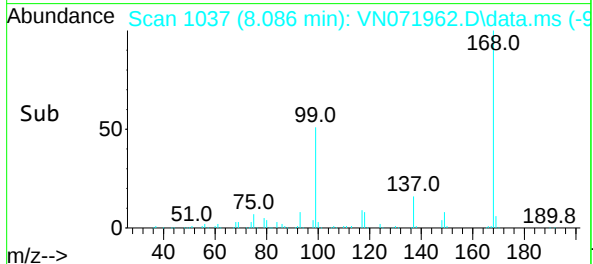
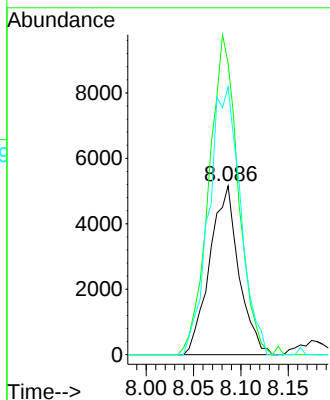
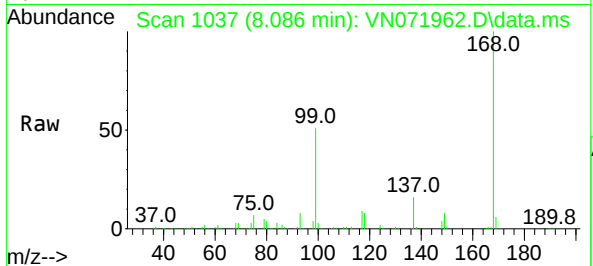




#31
Cyclohexane
Concen: 1.031 ug/l
RT: 8.086 min Scan# 1037
Delta R.T. -0.006 min
Lab File: VN071962.D
Acq: 12 Apr 2022 18:38

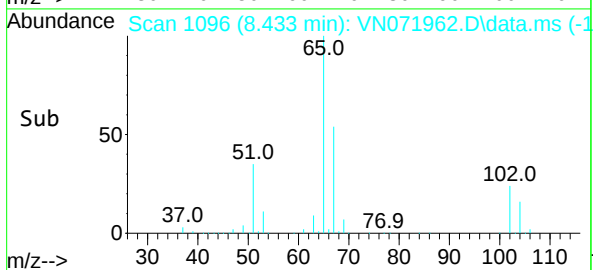
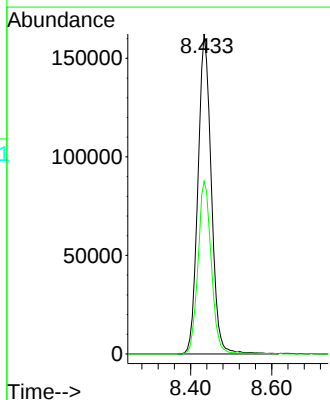
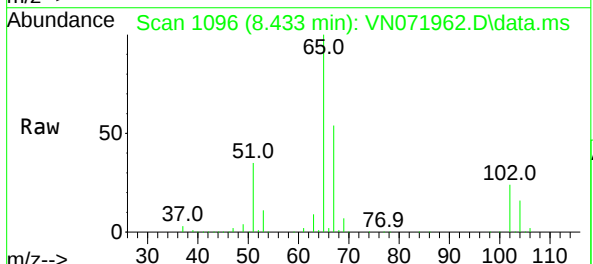
Instrument :
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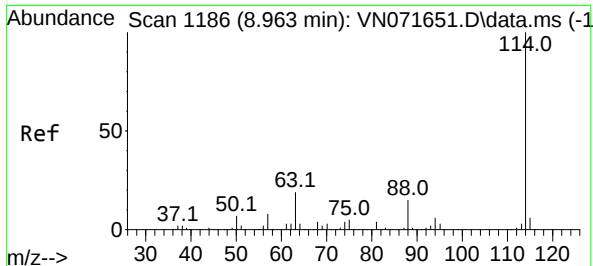
Tgt Ion: 56 Resp: 11026
Ion Ratio Lower Upper
56 100
69 172.5 27.8 41.8#
84 158.6 76.9 115.3#



#33
1,2-Dichloroethane-d4
Concen: 47.239 ug/l
RT: 8.433 min Scan# 1096
Delta R.T. -0.001 min
Lab File: VN071962.D
Acq: 12 Apr 2022 18:38

Tgt Ion: 65 Resp: 371417
Ion Ratio Lower Upper
65 100
67 53.3 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.963 min Scan# 1186

Delta R.T. -0.000 min

Lab File: VN071962.D

Acq: 12 Apr 2022 18:38

Instrument :

MSVOA_N

ClientSampleId :

DEL-8

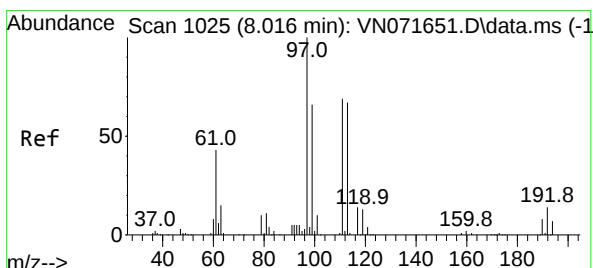
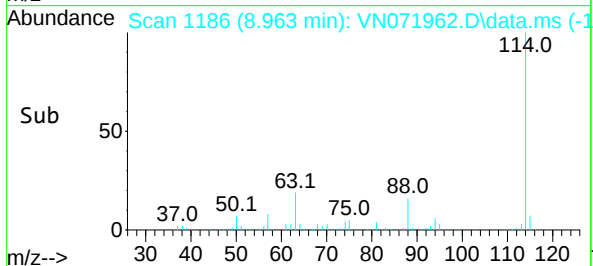
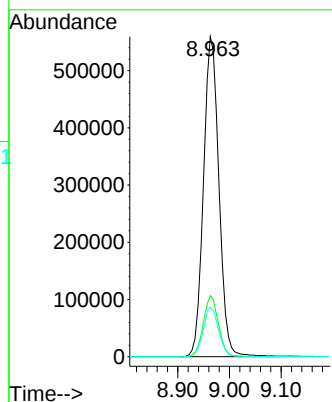
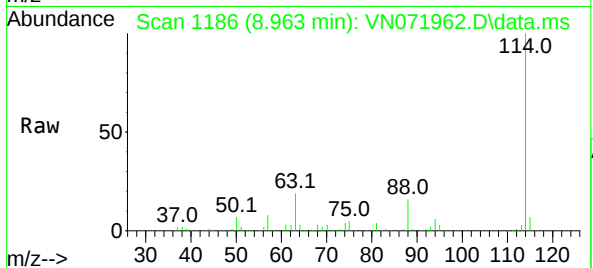
Tgt Ion:114 Resp: 1161905

Ion Ratio Lower Upper

114 100

63 19.1 0.0 40.0

88 15.5 0.0 32.6



#35

Dibromofluoromethane

Concen: 48.778 ug/l

RT: 8.016 min Scan# 1025

Delta R.T. -0.000 min

Lab File: VN071962.D

Acq: 12 Apr 2022 18:38

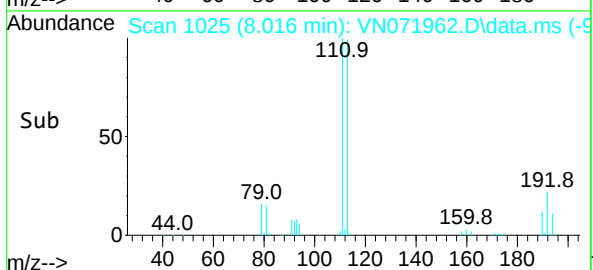
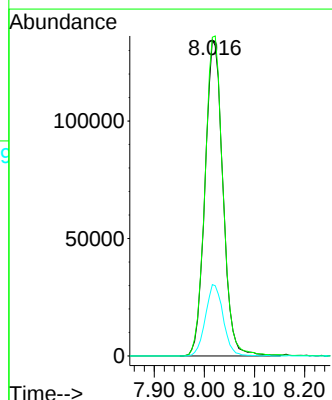
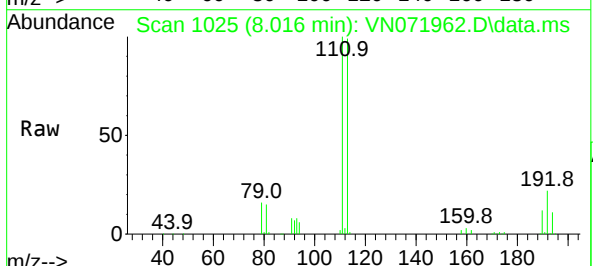
Tgt Ion:113 Resp: 333503

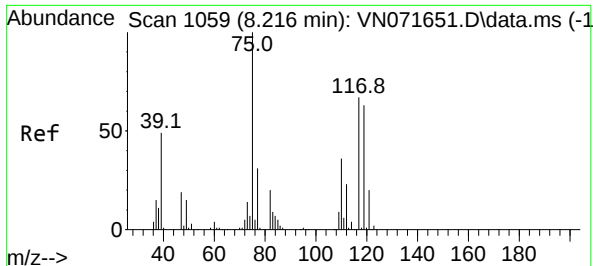
Ion Ratio Lower Upper

113 100

111 101.6 81.4 122.0

192 22.5 17.0 25.6

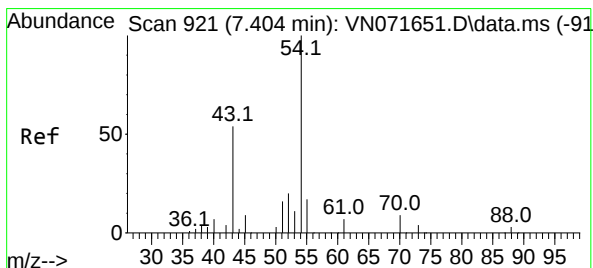
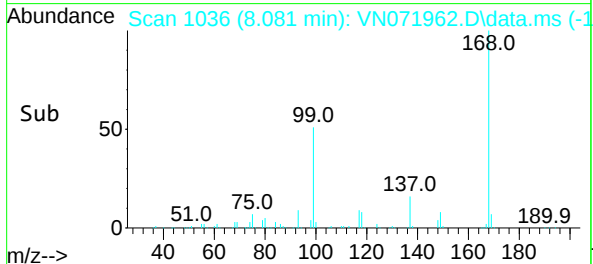
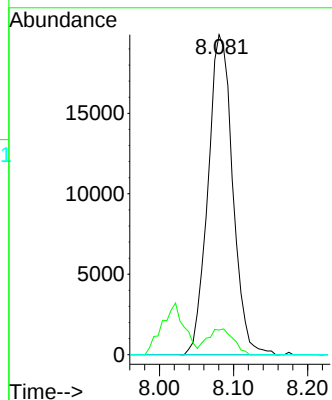
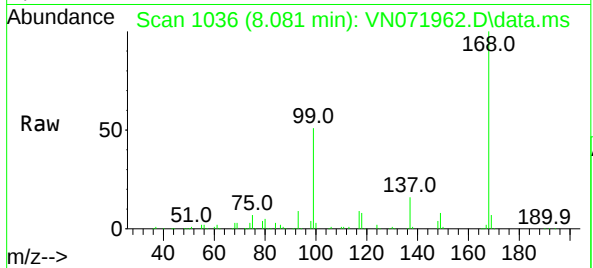




#36
1,1-Dichloropropene
Concen: 4.826 ug/l
RT: 8.081 min Scan# 1059
Delta R.T. -0.135 min
Lab File: VN071962.D
Acq: 12 Apr 2022 18:38

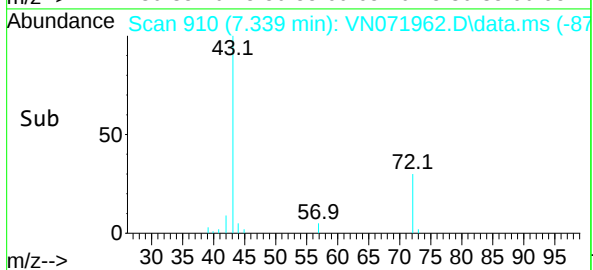
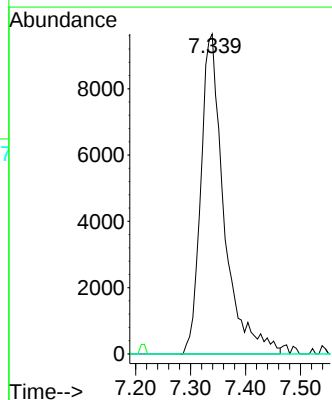
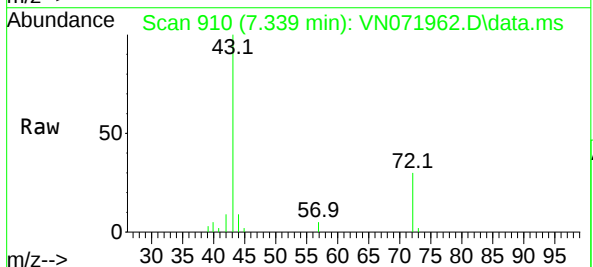
Instrument :
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ClientSampleId :
DEL-8

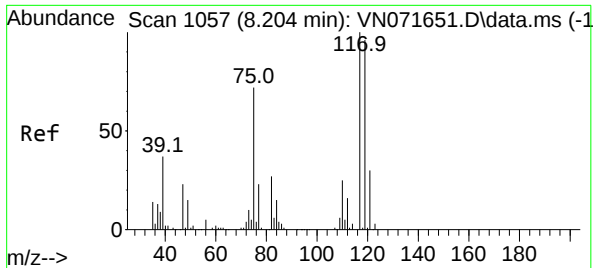
Tgt Ion: 75 Resp: 46081
Ion Ratio Lower Upper
75 100
110 8.6 18.3 54.8#
77 0.0 25.1 37.7#



#37
Ethyl Acetate
Concen: 2.709 ug/l
RT: 7.339 min Scan# 910
Delta R.T. -0.065 min
Lab File: VN071962.D
Acq: 12 Apr 2022 18:38

Tgt Ion: 43 Resp: 28315
Ion Ratio Lower Upper
43 100
61 0.0 11.8 17.6#
70 0.0 9.3 13.9#

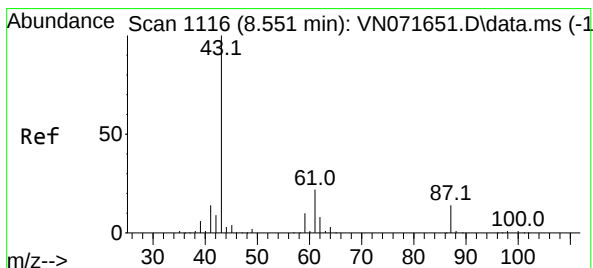
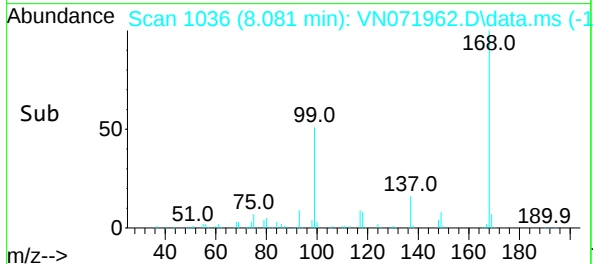
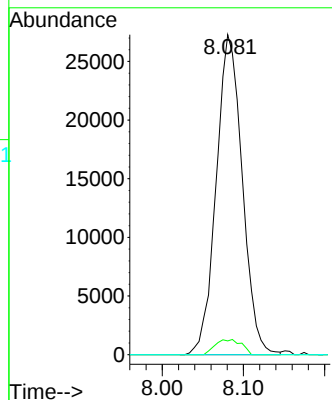
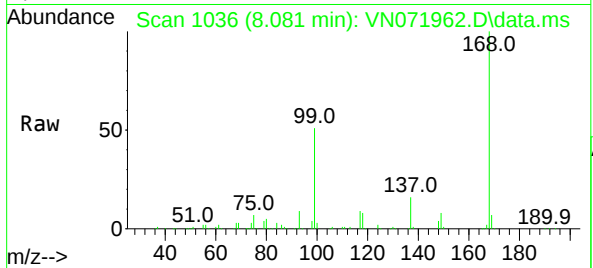




#38
Carbon Tetrachloride
Concen: 6.510 ug/l
RT: 8.081 min Scan# 1107
Delta R.T. -0.123 min
Lab File: VN071962.D
Acq: 12 Apr 2022 18:38

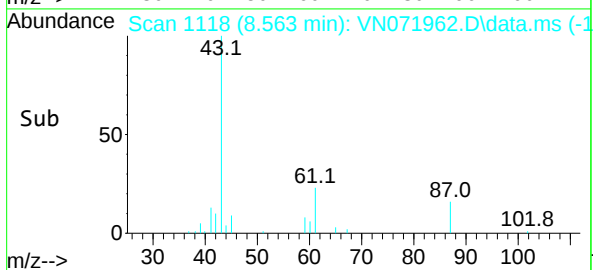
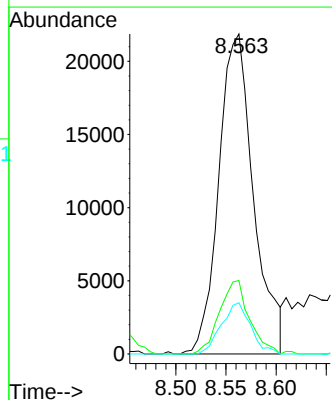
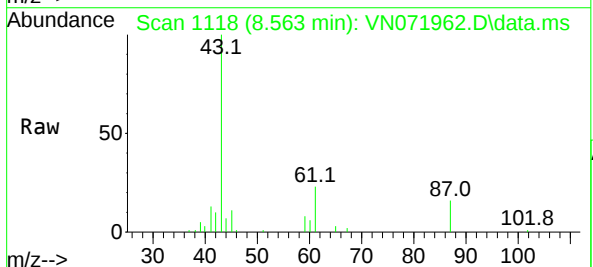
Instrument :
MSVOA_N
ClientSampleId :
DEL-8

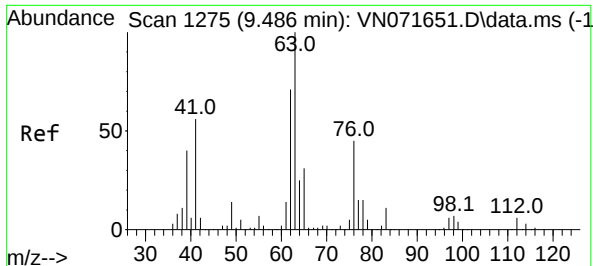
Tgt Ion:117 Resp: 60913
Ion Ratio Lower Upper
117 100
119 4.3 75.8 113.8#
121 0.0 24.6 37.0#



#43
Isopropyl Acetate
Concen: 3.045 ug/l
RT: 8.563 min Scan# 1118
Delta R.T. 0.012 min
Lab File: VN071962.D
Acq: 12 Apr 2022 18:38

Tgt Ion: 43 Resp: 52926
Ion Ratio Lower Upper
43 100
61 19.9 21.9 32.9#
87 13.5 12.0 18.0





#45

1,2-Dichloropropane

Concen: 0.302 ug/l

RT: 9.627 min Scan# 1299

Delta R.T. 0.141 min

Lab File: VN071962.D

Acq: 12 Apr 2022 18:38

Instrument :

MSVOA_N

ClientSampleId :

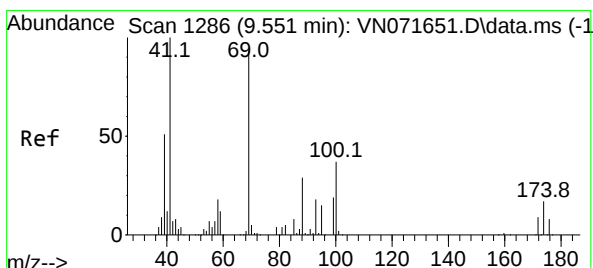
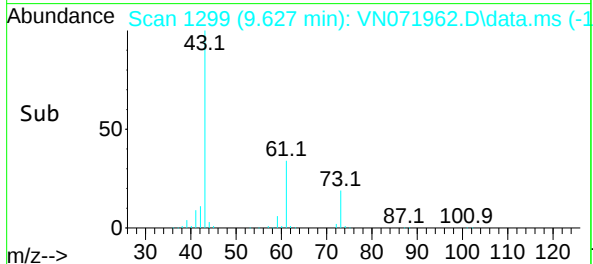
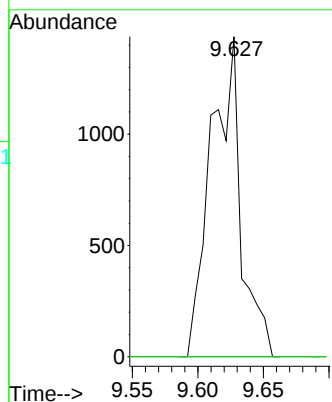
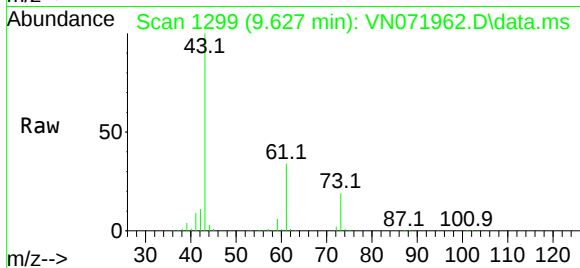
DEL-8

Tgt Ion: 63 Resp: 2276

Ion Ratio Lower Upper

63 100

65 0.0 24.9 37.3#



#48

Methyl methacrylate

Concen: 2.147 ug/l

RT: 9.539 min Scan# 1284

Delta R.T. -0.012 min

Lab File: VN071962.D

Acq: 12 Apr 2022 18:38

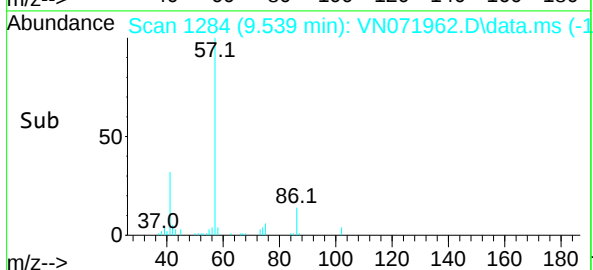
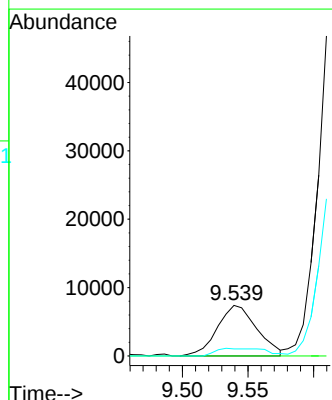
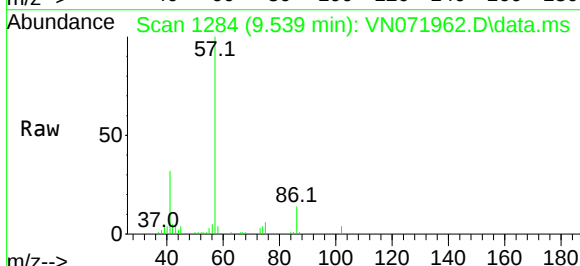
Tgt Ion: 41 Resp: 15484

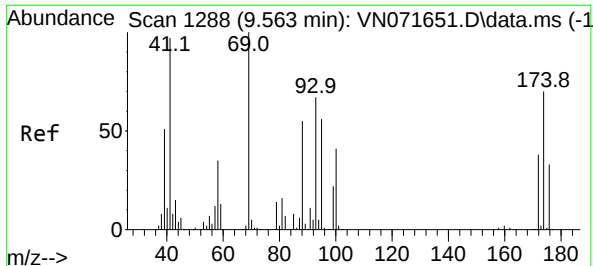
Ion Ratio Lower Upper

41 100

69 0.0 74.7 112.1#

39 19.3 45.6 68.4#





#49

1,4-Dioxane

Concen: Below Cal

RT: 9.627 min Scan# 1288

Delta R.T. 0.064 min

Lab File: VN071962.D

Acq: 12 Apr 2022 18:38

Instrument :

MSVOA_N

ClientSampleId :

DEL-8

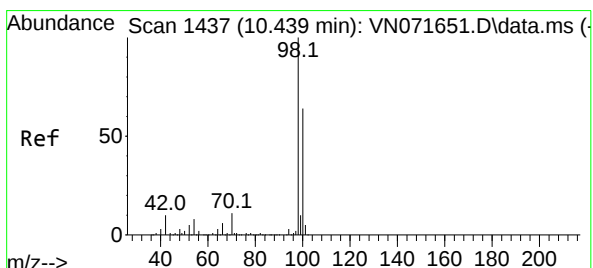
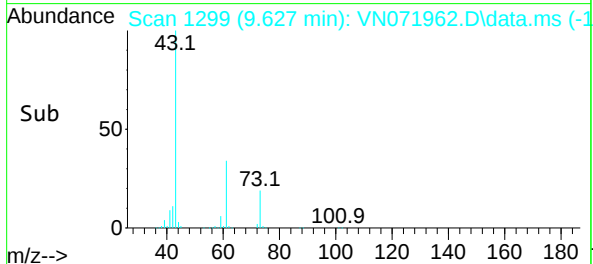
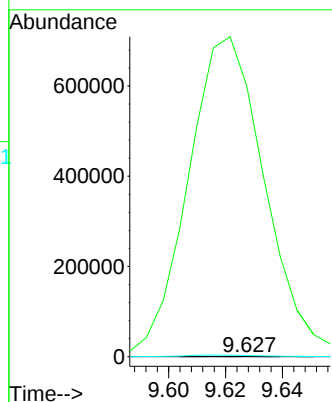
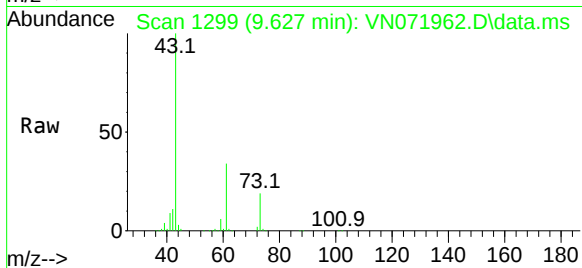
Tgt Ion: 88 Resp: 215

Ion Ratio Lower Upper

88 100

43 634934.0 20.2 30.4#

58 3194.9 54.2 81.4#



#50

Toluene-d8

Concen: 52.794 ug/l

RT: 10.439 min Scan# 1437

Delta R.T. 0.000 min

Lab File: VN071962.D

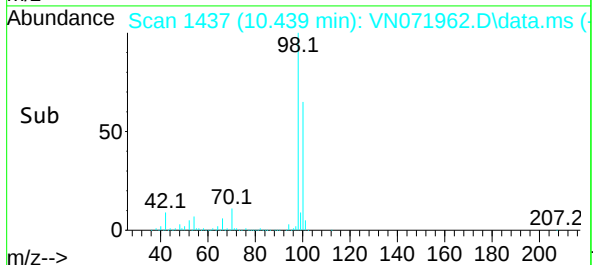
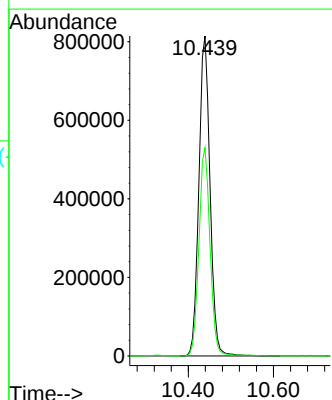
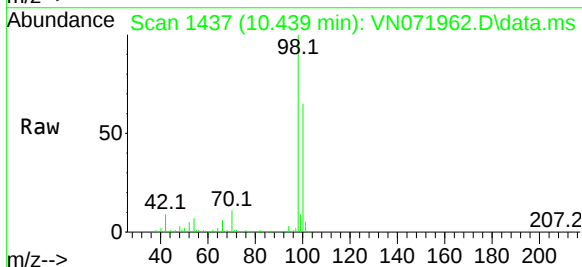
Acq: 12 Apr 2022 18:38

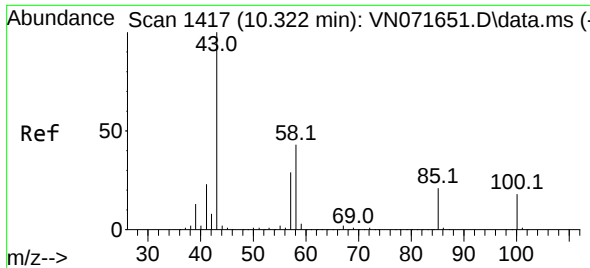
Tgt Ion: 98 Resp: 1476606

Ion Ratio Lower Upper

98 100

100 64.9 52.6 78.8

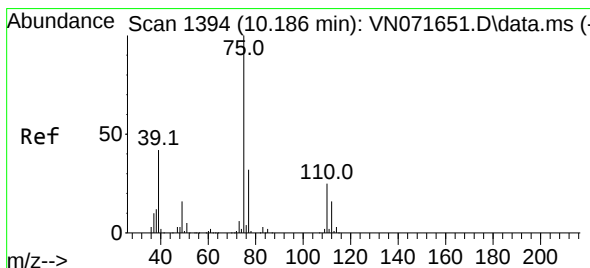
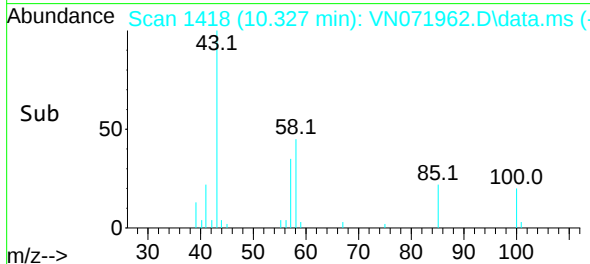
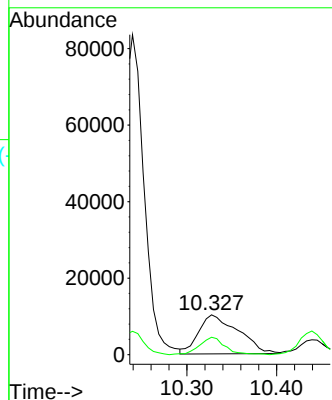
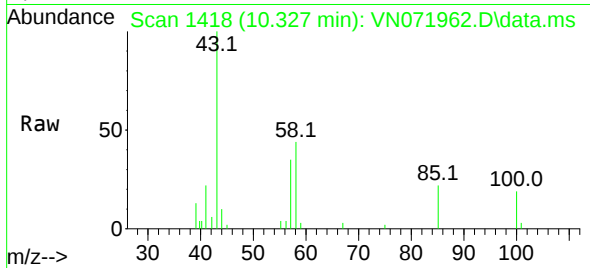




#51
4-Methyl-2-Pentanone
Concen: 3.135 ug/l
RT: 10.327 min Scan# 1417
Delta R.T. 0.005 min
Lab File: VN071962.D
Acq: 12 Apr 2022 18:38

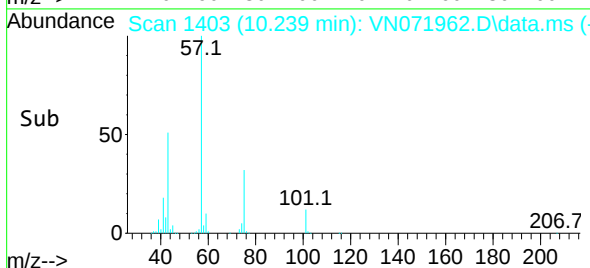
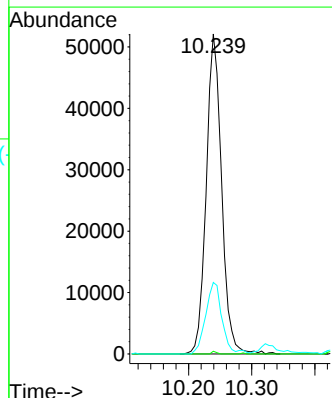
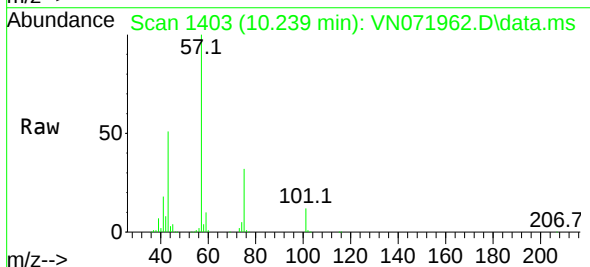
Instrument :
MSVOA_N
ClientSampleId :
DEL-8

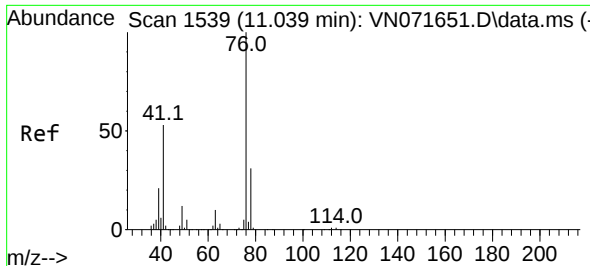
Tgt Ion: 43 Resp: 31327
Ion Ratio Lower Upper
43 100
58 28.8 34.1 51.1#



#54
cis-1,3-Dichloropropene
Concen: 7.539 ug/l
RT: 10.239 min Scan# 1403
Delta R.T. 0.053 min
Lab File: VN071962.D
Acq: 12 Apr 2022 18:38

Tgt Ion: 75 Resp: 87917
Ion Ratio Lower Upper
75 100
77 0.9 25.2 37.8#
39 22.3 35.7 53.5#





#57

1,3-Dichloropropane

Concen: 1.898 ug/l

RT: 11.086 min Scan# 1547

Delta R.T. 0.047 min

Lab File: VN071962.D

Acq: 12 Apr 2022 18:38

Instrument :

MSVOA_N

ClientSampleId :

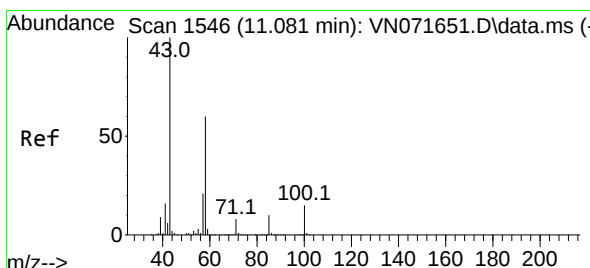
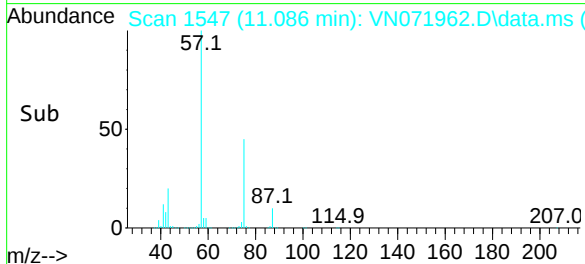
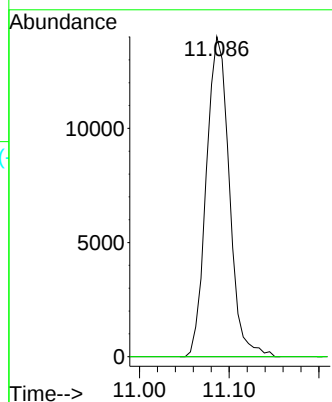
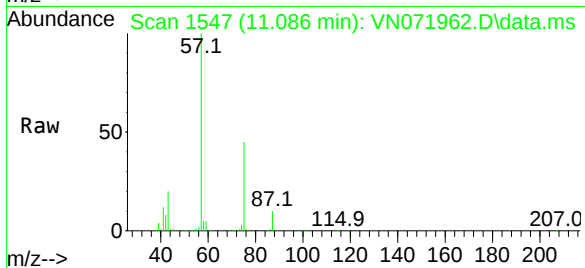
DEL-8

Tgt Ion: 76 Resp: 24905

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.2#



#59

2-Hexanone

Concen: 48.067 ug/l

RT: 11.086 min Scan# 1547

Delta R.T. 0.005 min

Lab File: VN071962.D

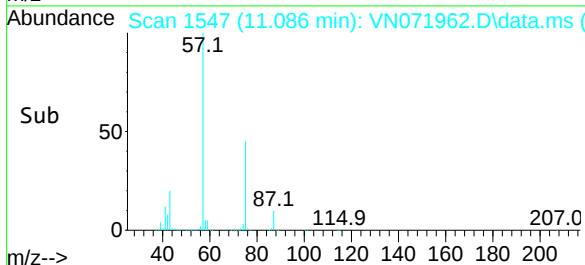
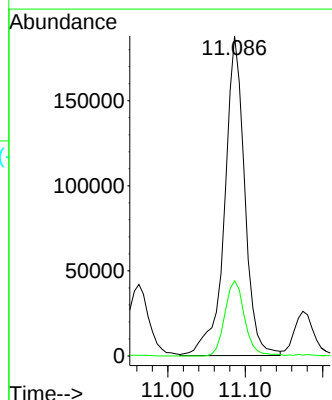
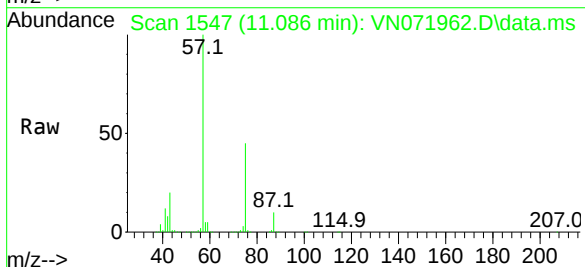
Acq: 12 Apr 2022 18:38

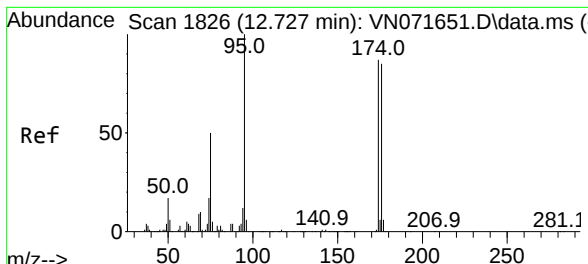
Tgt Ion: 43 Resp: 338204

Ion Ratio Lower Upper

43 100

58 23.2 29.7 89.1#

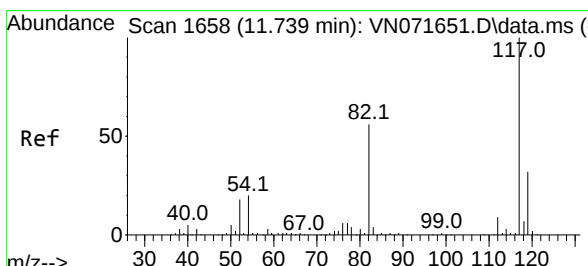
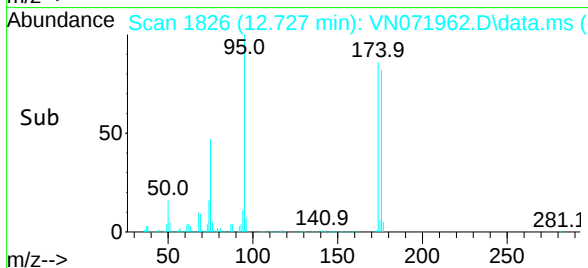
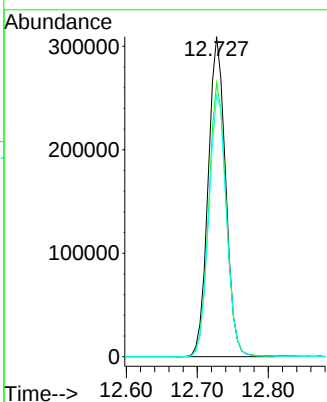
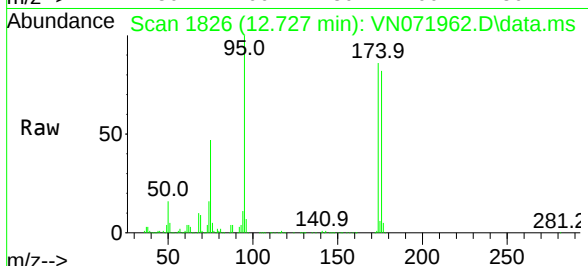




#62
 4-Bromofluorobenzene
 Concen: 58.295 ug/l
 RT: 12.727 min Scan# 1826
 Delta R.T. 0.000 min
 Lab File: VN071962.D
 Acq: 12 Apr 2022 18:38

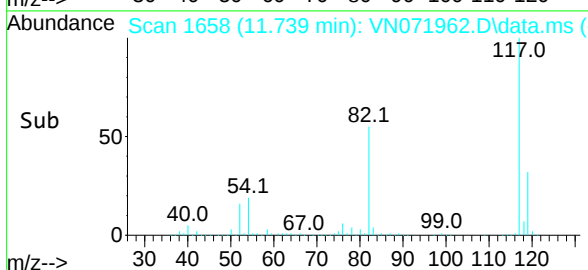
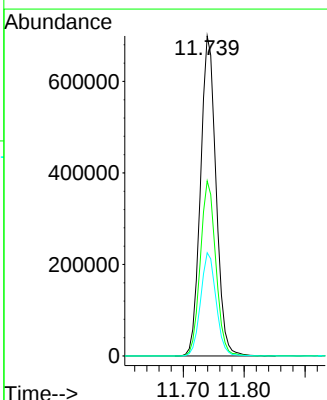
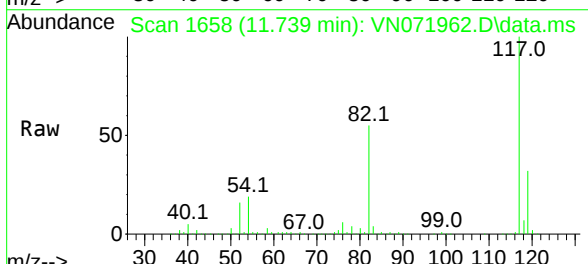
Instrument :
 MSVOA_N
 ClientSampleId :
 DEL-8

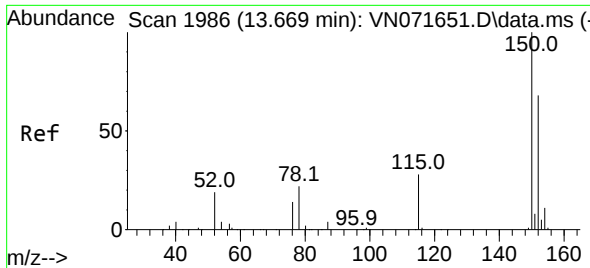
Tgt Ion:	95	Resp:	527314
Ion	Ratio	Lower	Upper
95	100		
174	85.7	0.0	167.6
176	82.9	0.0	163.4



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.739 min Scan# 1658
 Delta R.T. 0.000 min
 Lab File: VN071962.D
 Acq: 12 Apr 2022 18:38

Tgt Ion:	117	Resp:	1238379
Ion	Ratio	Lower	Upper
117	100		
82	54.7	44.2	66.2
119	32.2	25.4	38.0

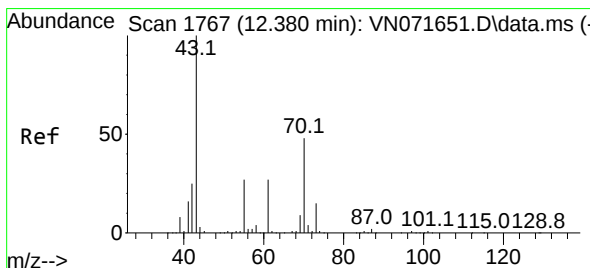
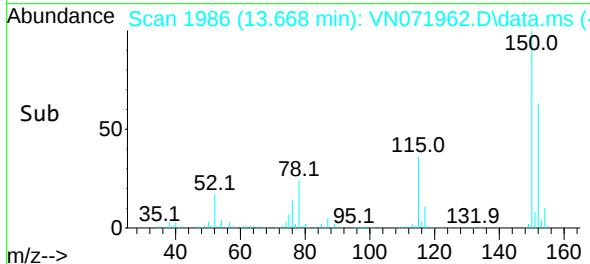
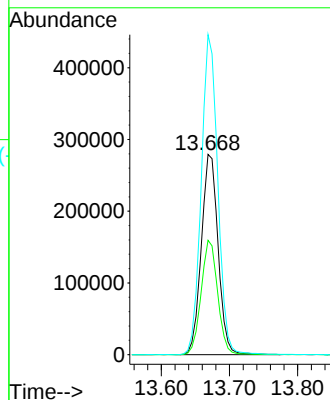
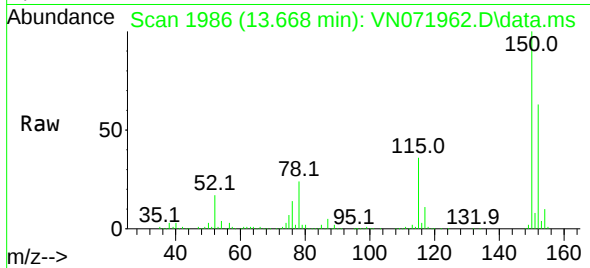




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.668 min Scan# 1986
 Delta R.T. -0.001 min
 Lab File: VN071962.D
 Acq: 12 Apr 2022 18:38

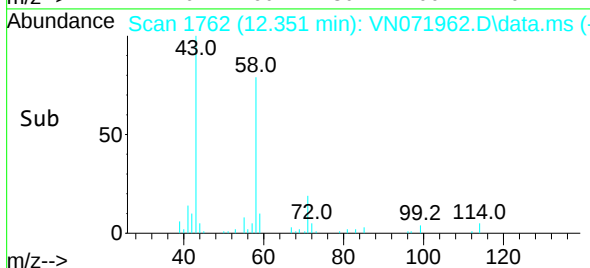
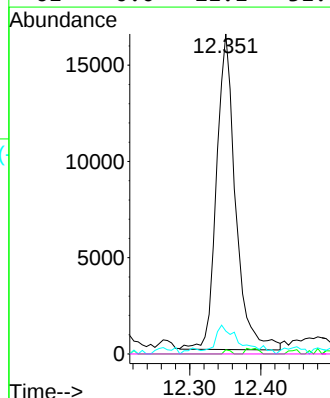
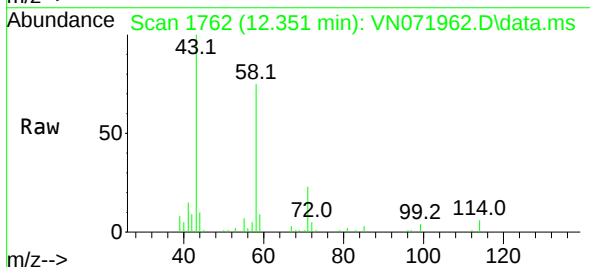
Instrument :
 MSVOA_N
 ClientSampleId :
 DEL-8

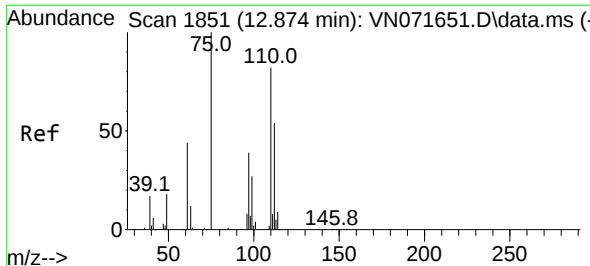
Tgt Ion:152 Resp: 478911
 Ion Ratio Lower Upper
 152 100
 115 56.4 28.9 86.7
 150 157.3 0.0 356.2



#74
 N-ethyl acetate
 Concen: 2.635 ug/l
 RT: 12.351 min Scan# 1762
 Delta R.T. -0.029 min
 Lab File: VN071962.D
 Acq: 12 Apr 2022 18:38

Tgt Ion: 43 Resp: 30463
 Ion Ratio Lower Upper
 43 100
 70 0.4 39.0 58.4#
 55 11.8 21.1 31.7#
 61 0.0 21.1 31.7#

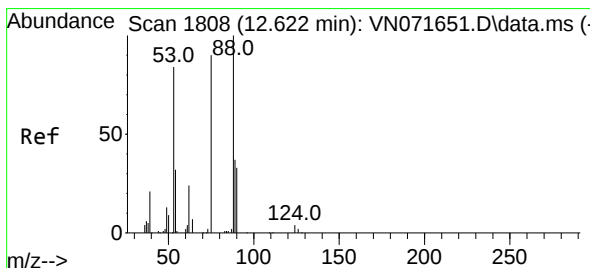
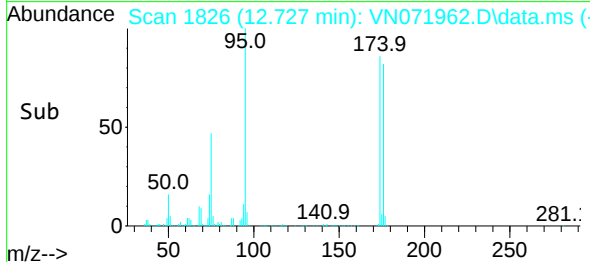
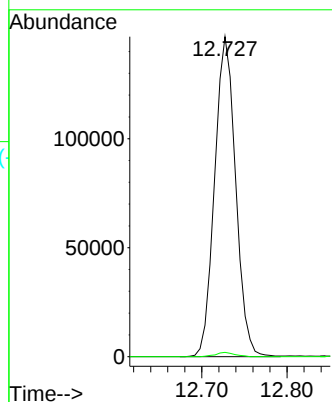
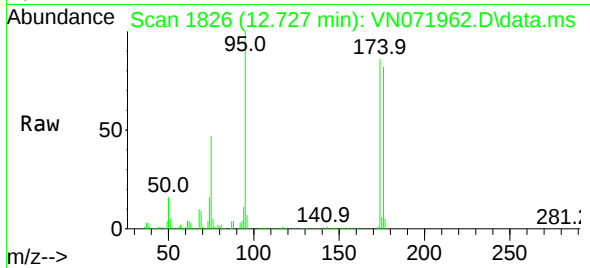




#76
1,2,3-Trichloropropane
Concen: 22.665 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. -0.147 min
Lab File: VN071962.D
Acq: 12 Apr 2022 18:38

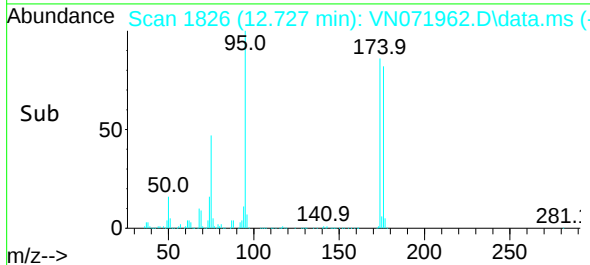
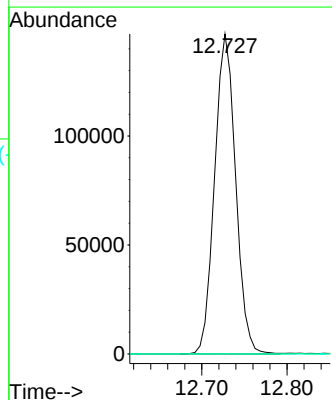
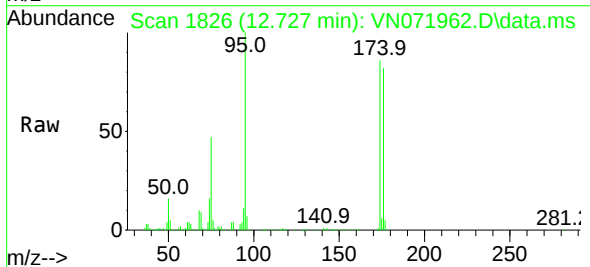
Instrument :
MSVOA_N
ClientSampleId :
DEL-8

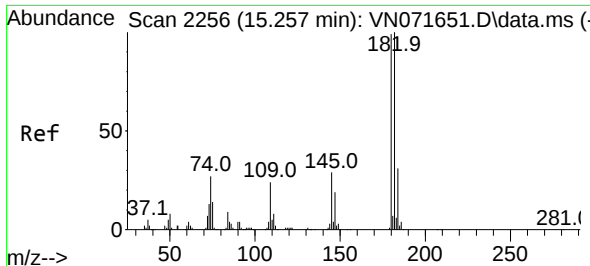
Tgt Ion: 75 Resp: 251458
Ion Ratio Lower Upper
75 100
77 1.2 98.5 295.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 70.239 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.105 min
Lab File: VN071962.D
Acq: 12 Apr 2022 18:38

Tgt Ion: 75 Resp: 251458
Ion Ratio Lower Upper
75 100
53 0.0 78.0 117.0#
89 0.0 37.2 55.8#





#93

1,2,4-Trichlorobenzene

Concen: 2.194 ug/l

RT: 15.257 min Scan# 2256

Delta R.T. -0.000 min

Lab File: VN071962.D

Acq: 12 Apr 2022 18:38

Instrument :

MSVOA_N

ClientSampleId :

DEL-8

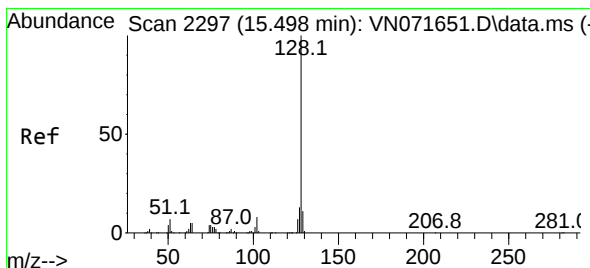
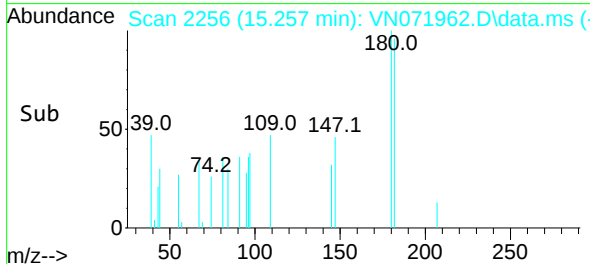
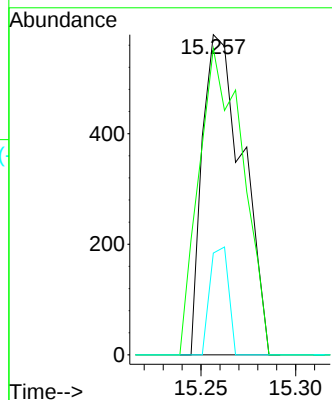
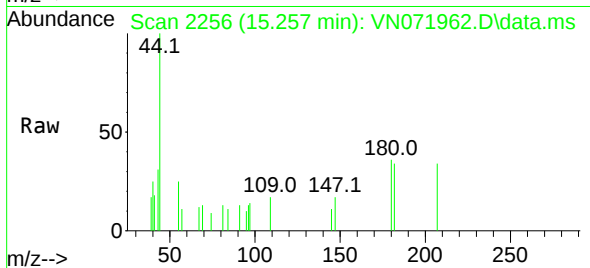
Tgt Ion:180 Resp: 857

Ion Ratio Lower Upper

180 100

182 104.1 47.5 142.5

145 15.6 14.5 43.5



#95

Naphthalene

Concen: 4.311 ug/l

RT: 15.498 min Scan# 2297

Delta R.T. -0.000 min

Lab File: VN071962.D

Acq: 12 Apr 2022 18:38

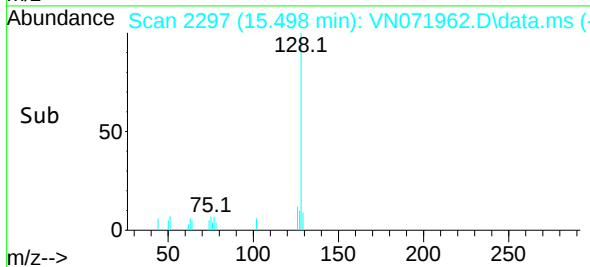
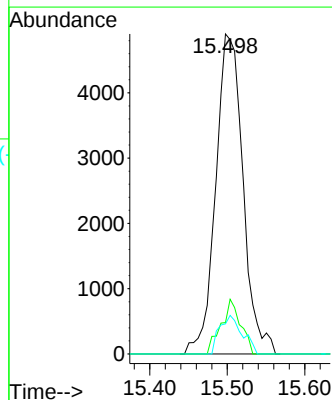
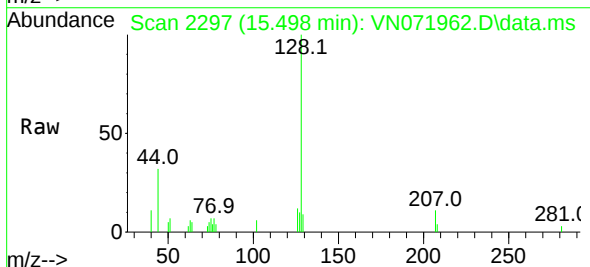
Tgt Ion:128 Resp: 11999

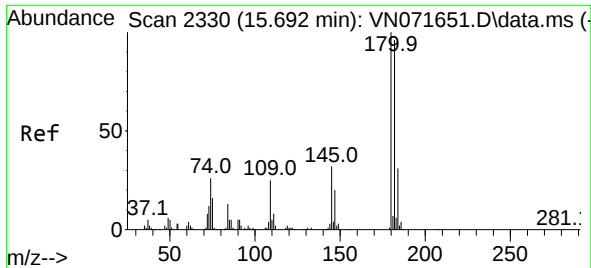
Ion Ratio Lower Upper

128 100

127 12.2 10.3 15.5

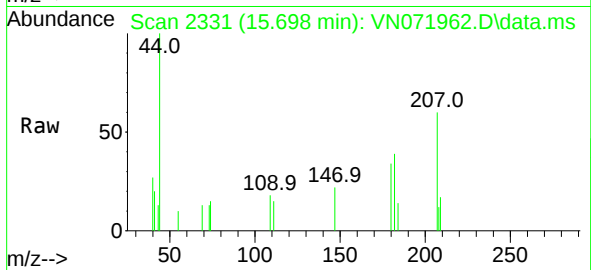
129 10.0 8.6 13.0





#96
 1,2,3-Trichlorobenzene
 Concen: 2.551 ug/l
 RT: 15.698 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN071962.D
 Acq: 12 Apr 2022 18:38

Instrument :
 MSVOA_N
 ClientSampleId :
 DEL-8



Tgt Ion	Ratio	Lower	Upper
180	100		
182	103.3	47.8	143.3
145	0.0	15.5	46.5#

