

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041322\
 Data File : VN071983.D
 Acq On : 13 Apr 2022 18:05
 Operator : JC\MD
 Sample : N2349-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DEL-1

Quant Time: Apr 14 02:36:24 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)

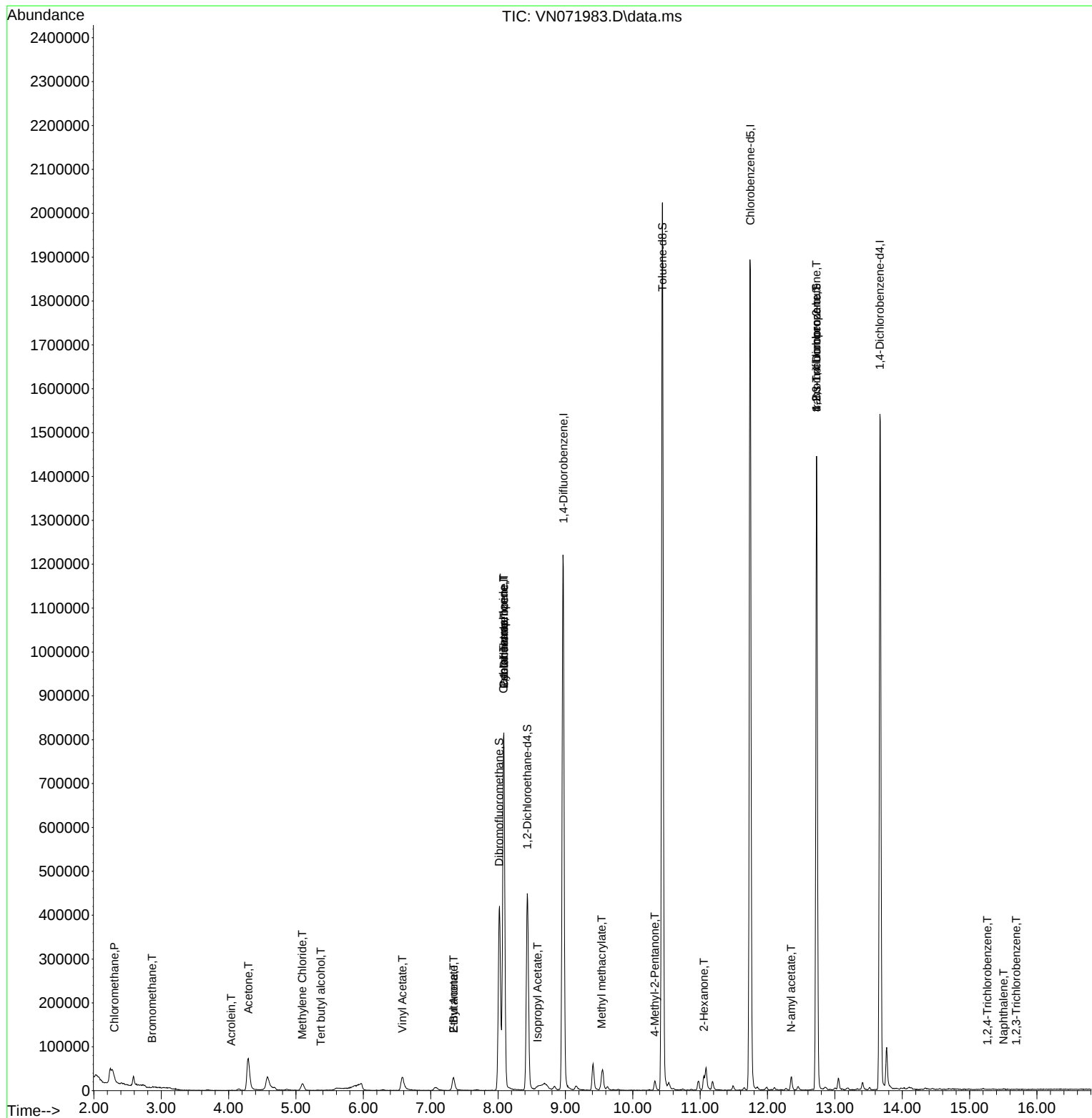
Internal Standards						
1) Pentafluorobenzene	8.086	168	682932	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.969	114	1162485	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.745	117	1205983	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.668	152	467163	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.433	65	374890	48.085	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	96.160%		
35) Dibromofluoromethane	8.016	113	314521	45.979	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	91.960%		
50) Toluene-d8	10.439	98	1461874	52.241	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	104.480%		
62) 4-Bromofluorobenzene	12.727	95	510514	56.409	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	112.820%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.304	50	1990	0.289	ug/l #	88
5) Bromomethane	2.863	94	1165	0.237	ug/l #	79
11) Tert butyl alcohol	5.369	59	524	0.414	ug/l #	72
13) Acrolein	4.040	56	454	0.294	ug/l #	74
16) Acetone	4.293	43	134151	40.262	ug/l	92
18) Methyl Acetate	4.857	43	5044	Below Cal	#	83
20) Methylene Chloride	5.092	84	13359	1.902	ug/l #	85
23) Vinyl Acetate	6.581	43	5878	0.371	ug/l #	68
25) 2-Butanone	7.339	43	49170	10.237	ug/l	95
31) Cyclohexane	8.086	56	10650	1.004	ug/l #	1
36) 1,1-Dichloropropene	8.086	75	46481	4.866	ug/l #	46
37) Ethyl Acetate	7.339	43	49170	4.703	ug/l #	67
38) Carbon Tetrachloride	8.081	117	62579	6.684	ug/l #	18
43) Isopropyl Acetate	8.586	43	6350	0.365	ug/l #	53
48) Methyl methacrylate	9.539	41	18414	2.552	ug/l #	23
51) 4-Methyl-2-Pentanone	10.327	43	15199	1.520	ug/l	99
59) 2-Hexanone	11.057	43	23253	3.303	ug/l #	21
74) N-amyl acetate	12.351	43	20677	1.833	ug/l #	44
76) 1,2,3-Trichloropropane	12.727	75	239977	22.175	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.727	75	239977	68.718	ug/l #	10
93) 1,2,4-Trichlorobenzene	15.262	180	178	2.109	ug/l #	67
95) Naphthalene	15.504	128	1496	3.868	ug/l #	74
96) 1,2,3-Trichlorobenzene	15.692	180	161	2.435	ug/l #	40

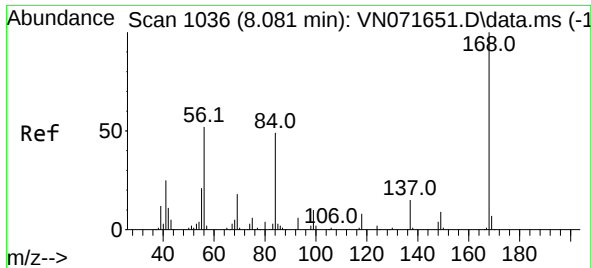
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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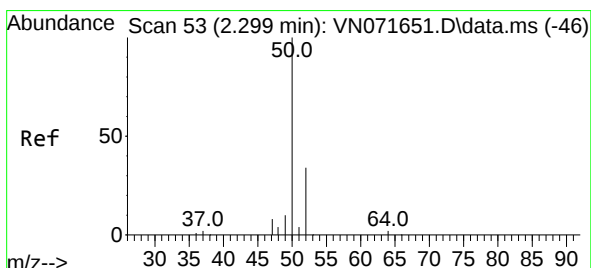
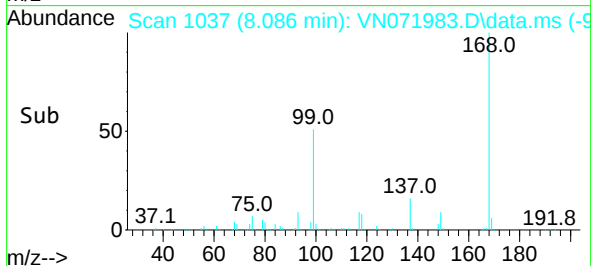
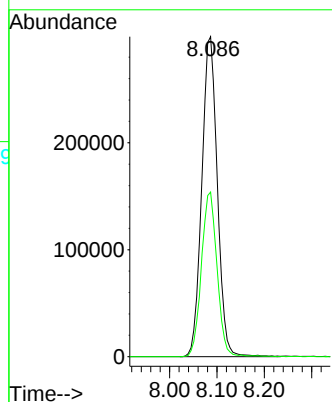
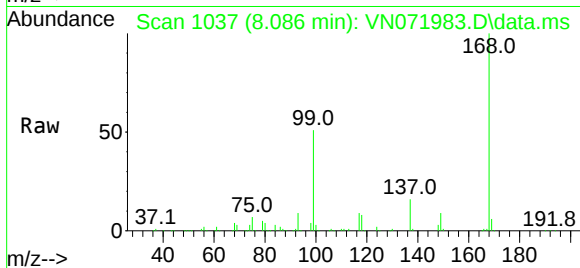




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.086 min Scan# 1
Delta R.T. 0.005 min
Lab File: VN071983.D
Acq: 13 Apr 2022 18:05

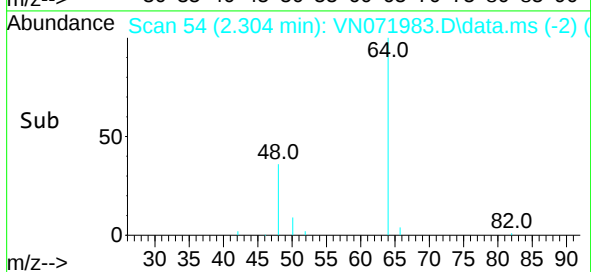
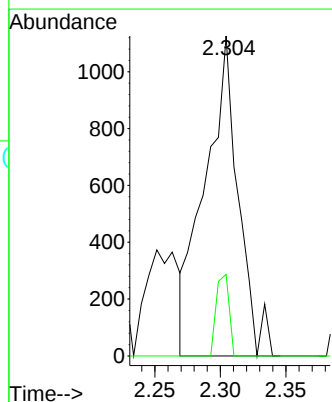
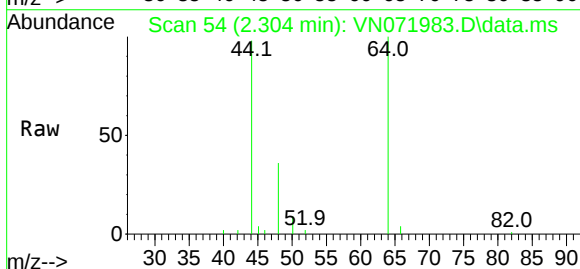
Instrument :
MSVOA_N
ClientSampleId :
DEL-1

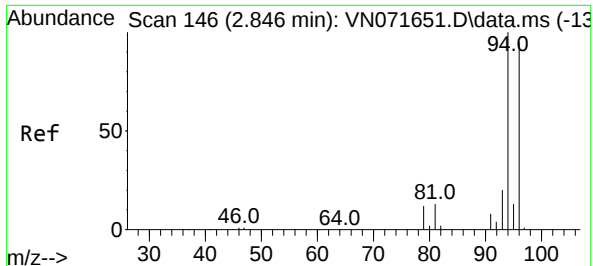
Tgt Ion:168 Resp: 682932
Ion Ratio Lower Upper
168 100
99 51.4 42.3 63.5



#3
Chloromethane
Concen: 0.289 ug/l
RT: 2.304 min Scan# 54
Delta R.T. 0.005 min
Lab File: VN071983.D
Acq: 13 Apr 2022 18:05

Tgt Ion: 50 Resp: 1990
Ion Ratio Lower Upper
50 100
52 25.5 25.7 38.5#





#5

Bromomethane

Concen: 0.237 ug/l

RT: 2.863 min Scan# 146

Delta R.T. 0.017 min

Lab File: VN071983.D

Acq: 13 Apr 2022 18:05

Instrument :

MSVOA_N

ClientSampleId :

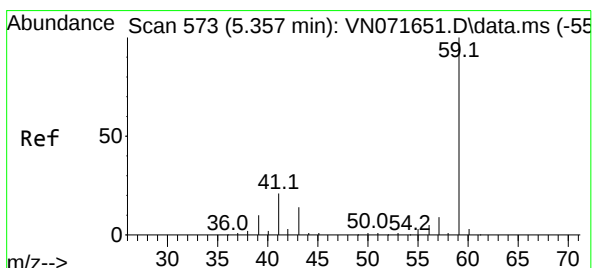
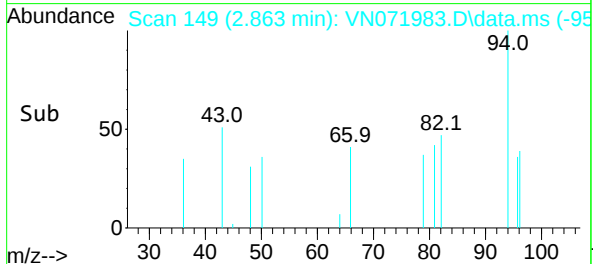
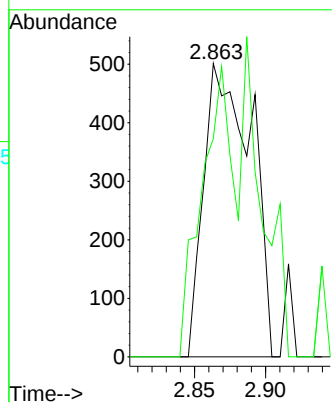
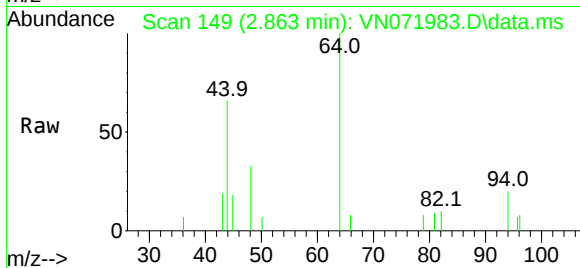
DEL-1

Tgt Ion: 94 Resp: 1165

Ion Ratio Lower Upper

94 100

96 74.5 76.0 114.0#



#11

Tert butyl alcohol

Concen: 0.414 ug/l

RT: 5.369 min Scan# 575

Delta R.T. 0.012 min

Lab File: VN071983.D

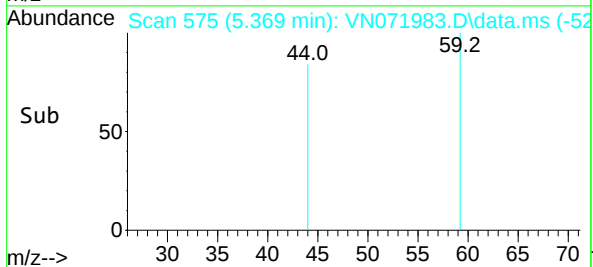
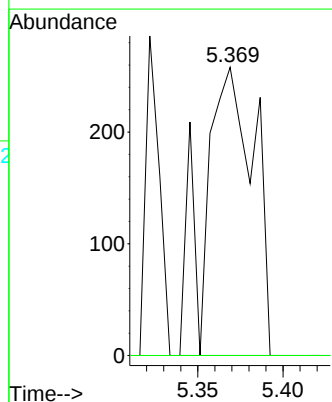
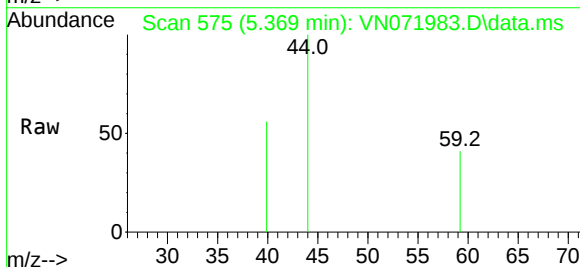
Acq: 13 Apr 2022 18:05

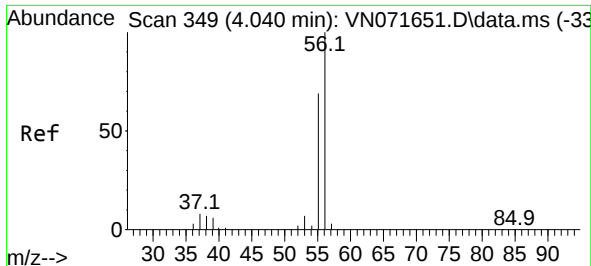
Tgt Ion: 59 Resp: 524

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#





#13

Acrolein

Concen: 0.294 ug/l

RT: 4.040 min Scan# 349

Delta R.T. -0.000 min

Lab File: VN071983.D

Acq: 13 Apr 2022 18:05

Instrument :

MSVOA_N

ClientSampleId :

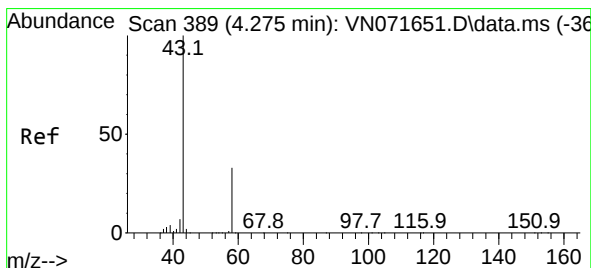
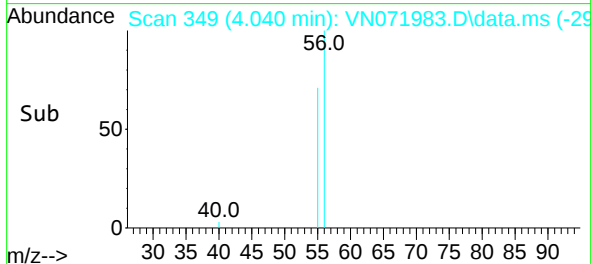
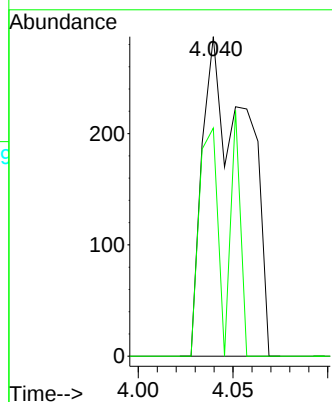
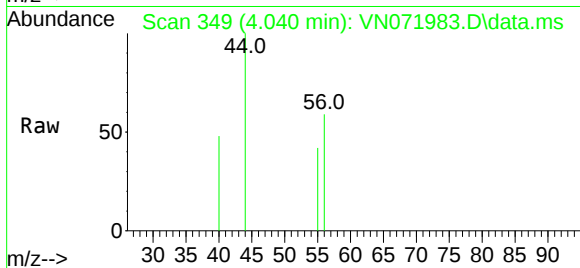
DEL-1

Tgt Ion: 56 Resp: 454

Ion Ratio Lower Upper

56 100

55 47.6 54.8 82.2#



#16

Acetone

Concen: 40.262 ug/l

RT: 4.293 min Scan# 392

Delta R.T. 0.018 min

Lab File: VN071983.D

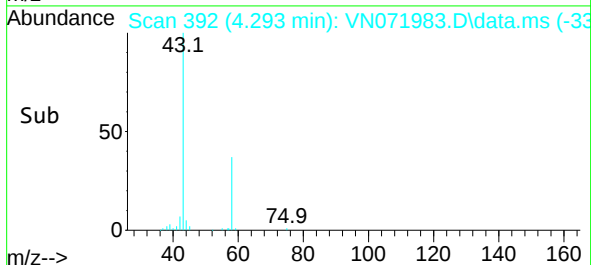
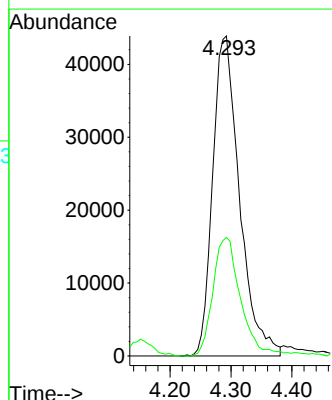
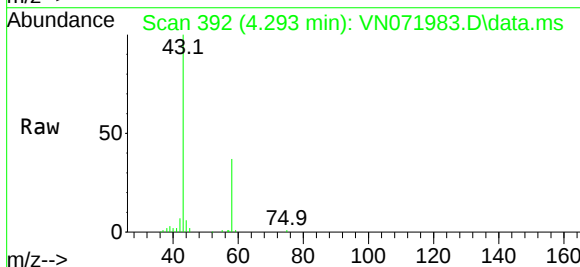
Acq: 13 Apr 2022 18:05

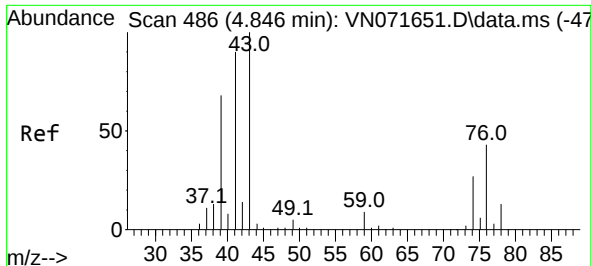
Tgt Ion: 43 Resp: 134151

Ion Ratio Lower Upper

43 100

58 37.1 26.0 39.0

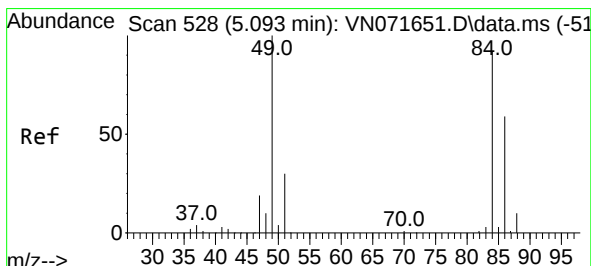
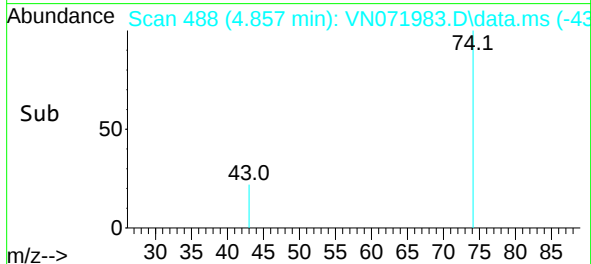
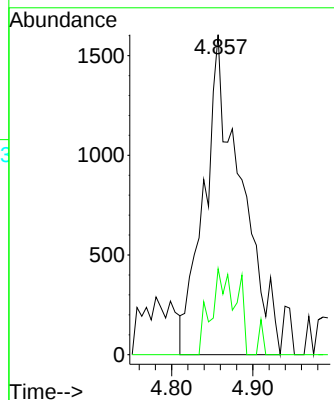
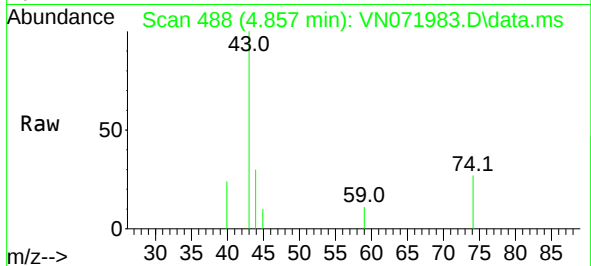




#18
Methyl Acetate
Concen: Below Cal
RT: 4.857 min Scan# 488
Delta R.T. 0.011 min
Lab File: VN071983.D
Acq: 13 Apr 2022 18:05

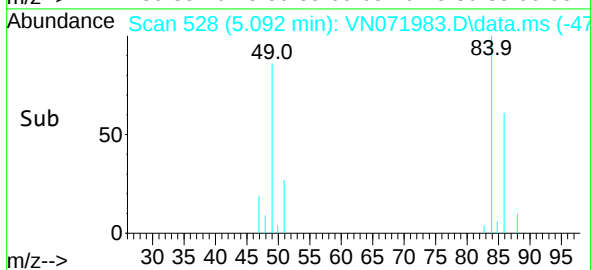
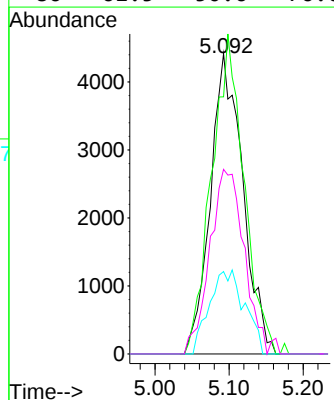
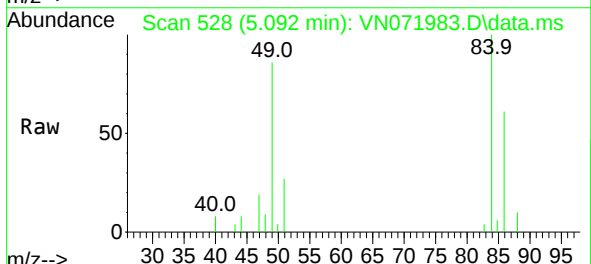
Instrument :
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ClientSampleId :
DEL-1

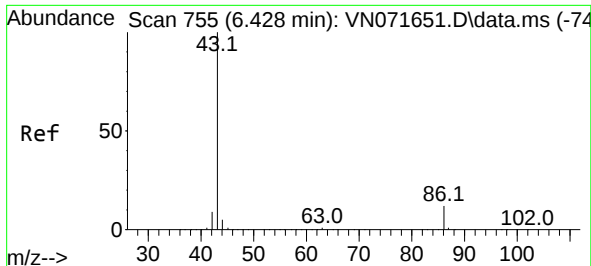
Tgt Ion: 43 Resp: 5044
Ion Ratio Lower Upper
43 100
74 18.4 21.6 32.4#



#20
Methylene Chloride
Concen: 1.902 ug/l
RT: 5.092 min Scan# 528
Delta R.T. -0.001 min
Lab File: VN071983.D
Acq: 13 Apr 2022 18:05

Tgt Ion: 84 Resp: 13359
Ion Ratio Lower Upper
84 100
49 85.6 88.3 132.5#
51 27.4 28.2 42.2#
86 61.5 50.6 76.0

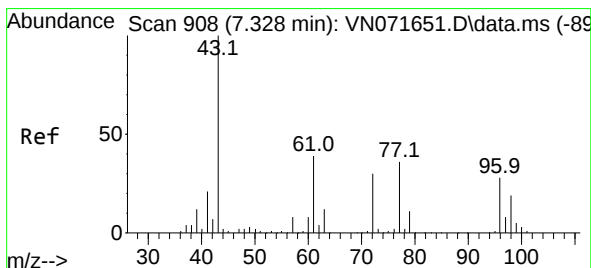
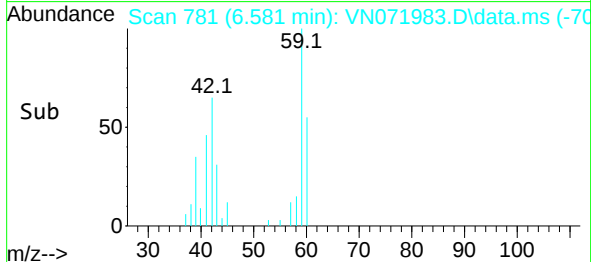
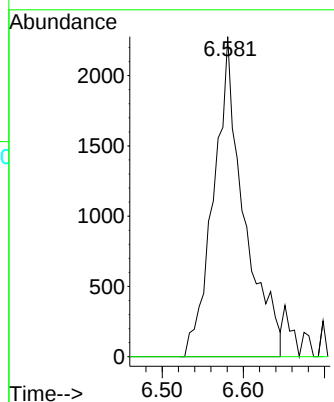
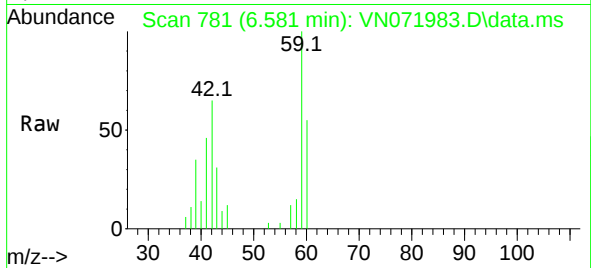




#23
 Vinyl Acetate
 Concen: 0.371 ug/l
 RT: 6.581 min Scan# 71
 Delta R.T. 0.153 min
 Lab File: VN071983.D
 Acq: 13 Apr 2022 18:05

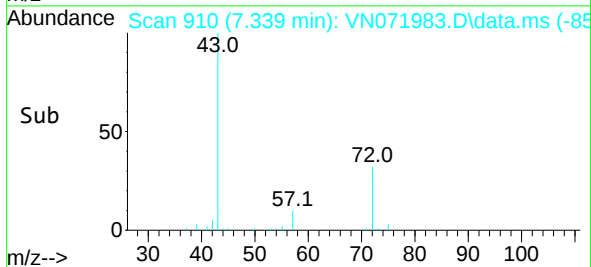
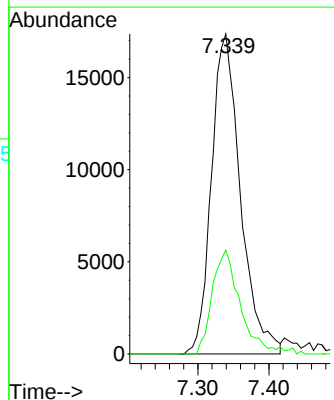
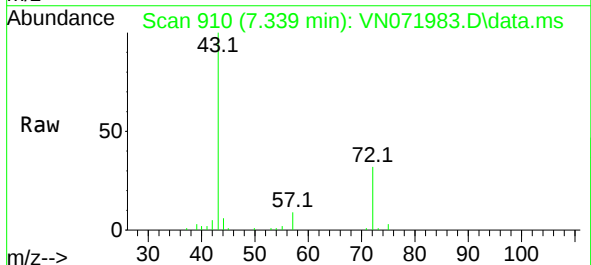
Instrument :
 MSVOA_N
 ClientSampleId :
 DEL-1

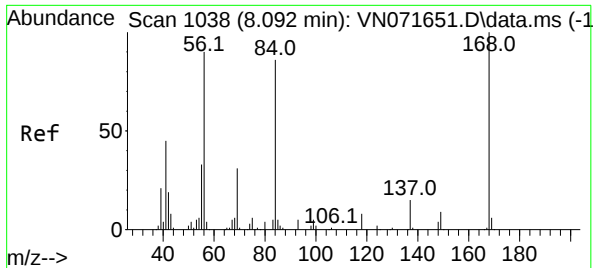
Tgt Ion: 43 Resp: 5878
 Ion Ratio Lower Upper
 43 100
 86 0.0 10.0 15.0#



#25
 2-Butanone
 Concen: 10.237 ug/l
 RT: 7.339 min Scan# 910
 Delta R.T. 0.011 min
 Lab File: VN071983.D
 Acq: 13 Apr 2022 18:05

Tgt Ion: 43 Resp: 49170
 Ion Ratio Lower Upper
 43 100
 72 32.5 23.7 35.5

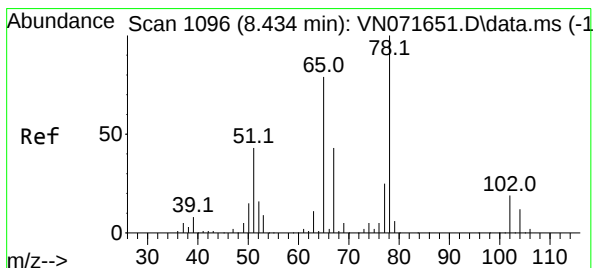
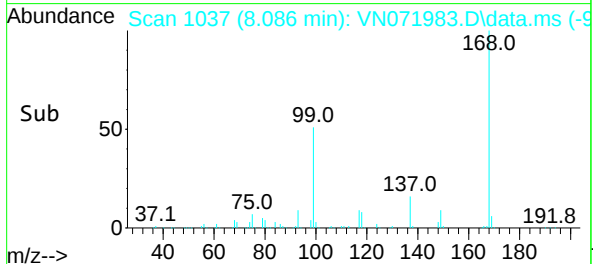
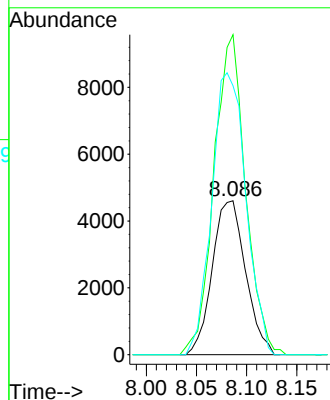
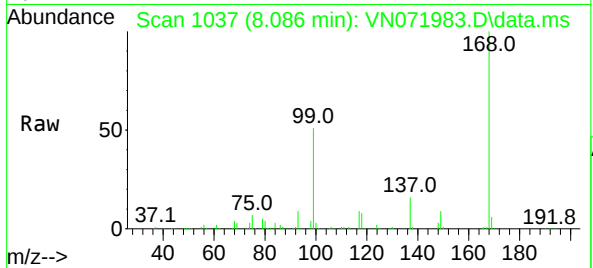




#31
Cyclohexane
Concen: 1.004 ug/l
RT: 8.086 min Scan# 1037
Delta R.T. -0.006 min
Lab File: VN071983.D
Acq: 13 Apr 2022 18:05

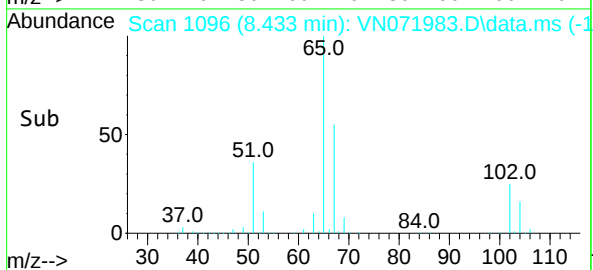
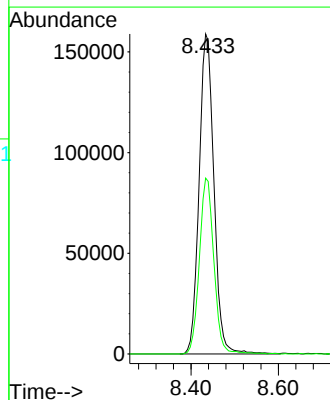
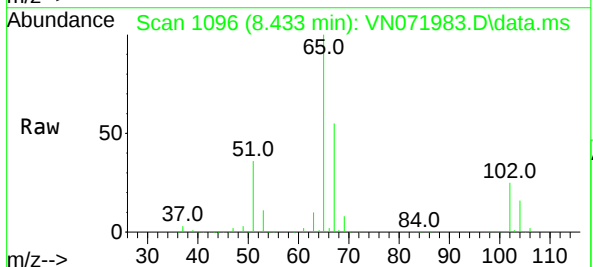
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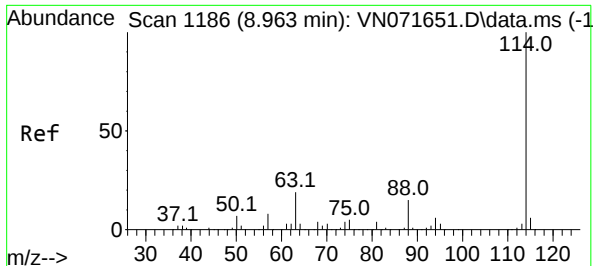
Tgt Ion: 56 Resp: 10650
Ion Ratio Lower Upper
56 100
69 207.9 27.8 41.8#
84 174.8 76.9 115.3#



#33
1,2-Dichloroethane-d4
Concen: 48.085 ug/l
RT: 8.433 min Scan# 1096
Delta R.T. -0.001 min
Lab File: VN071983.D
Acq: 13 Apr 2022 18:05

Tgt Ion: 65 Resp: 374890
Ion Ratio Lower Upper
65 100
67 53.8 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.969 min Scan# 1186

Delta R.T. 0.006 min

Lab File: VN071983.D

Acq: 13 Apr 2022 18:05

Instrument :

MSVOA_N

ClientSampleId :

DEL-1

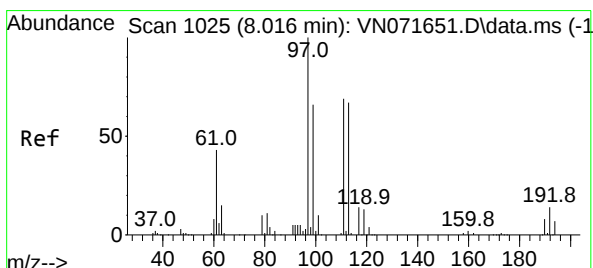
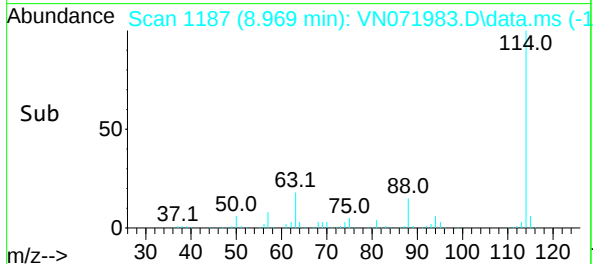
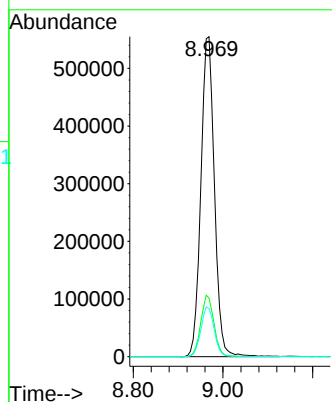
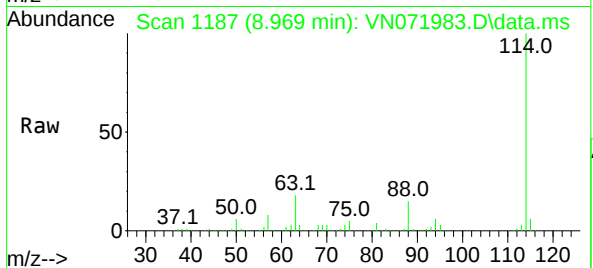
Tgt Ion:114 Resp: 1162485

Ion Ratio Lower Upper

114 100

63 18.3 0.0 40.0

88 15.1 0.0 32.6



#35

Dibromofluoromethane

Concen: 45.979 ug/l

RT: 8.016 min Scan# 1025

Delta R.T. -0.000 min

Lab File: VN071983.D

Acq: 13 Apr 2022 18:05

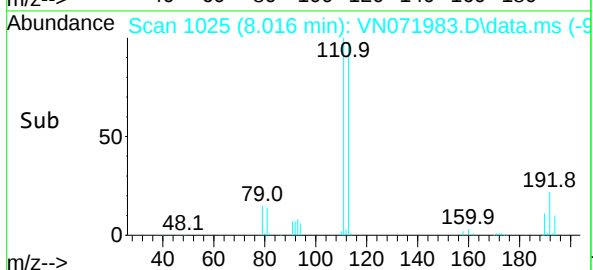
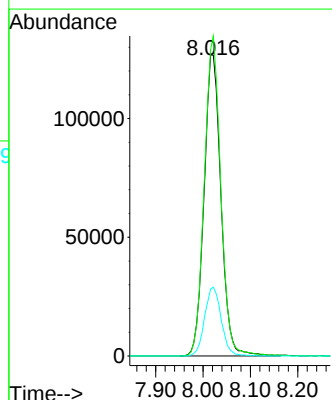
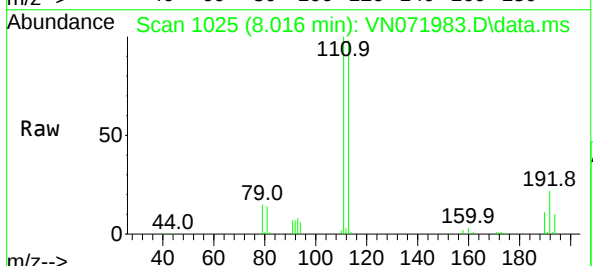
Tgt Ion:113 Resp: 314521

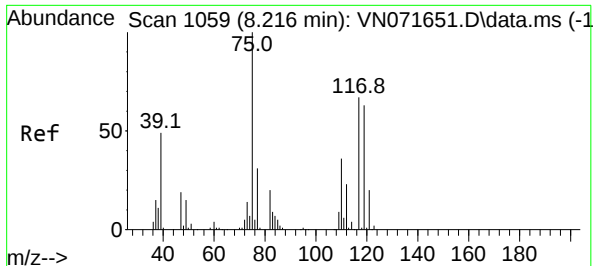
Ion Ratio Lower Upper

113 100

111 103.3 81.4 122.0

192 22.4 17.0 25.6





#36

1,1-Dichloropropene

Concen: 4.866 ug/l

RT: 8.086 min Scan# 1

Delta R.T. -0.130 min

Lab File: VN071983.D

Acq: 13 Apr 2022 18:05

Instrument :

MSVOA_N

ClientSampleId :

DEL-1

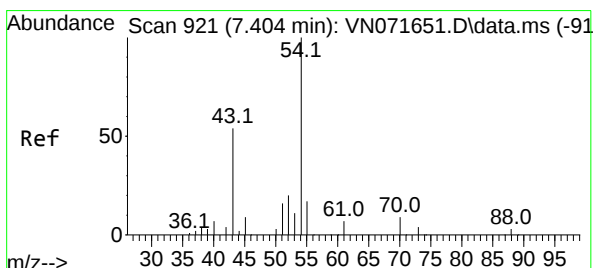
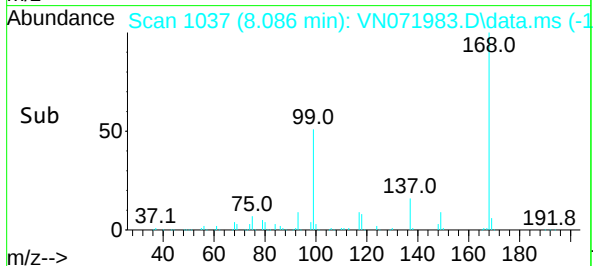
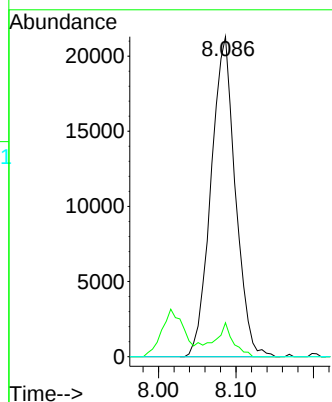
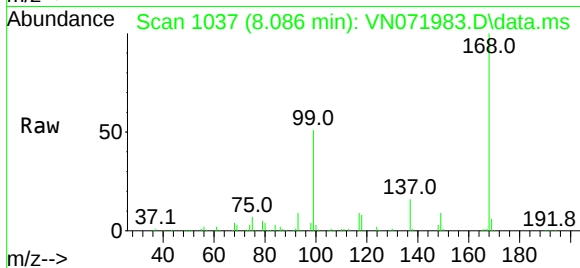
Tgt Ion: 75 Resp: 46481

Ion Ratio Lower Upper

75 100

110 6.2 18.3 54.8#

77 0.0 25.1 37.7#



#37

Ethyl Acetate

Concen: 4.703 ug/l

RT: 7.339 min Scan# 910

Delta R.T. -0.065 min

Lab File: VN071983.D

Acq: 13 Apr 2022 18:05

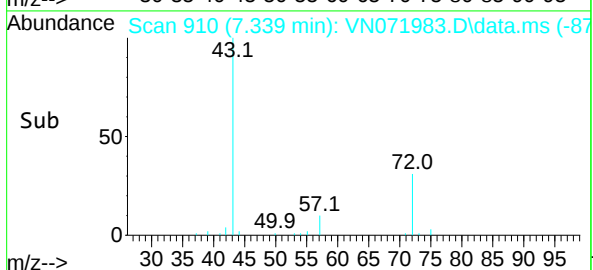
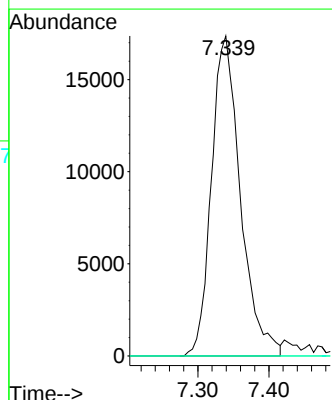
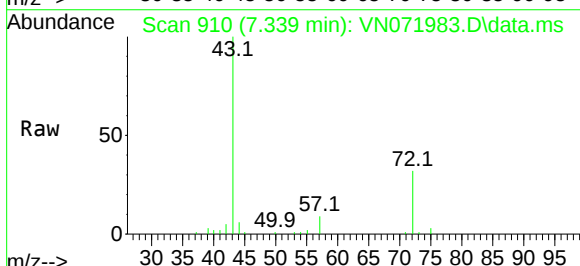
Tgt Ion: 43 Resp: 49170

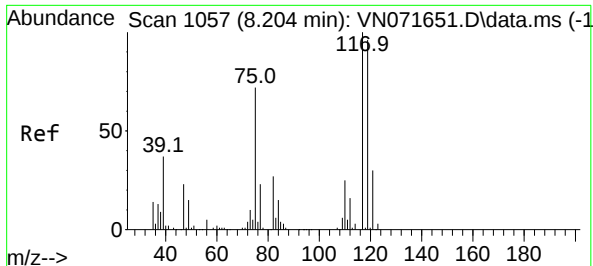
Ion Ratio Lower Upper

43 100

61 0.0 11.8 17.6#

70 0.0 9.3 13.9#

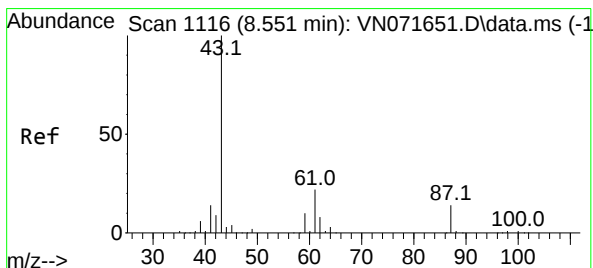
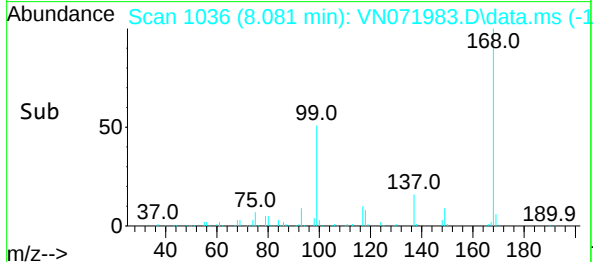
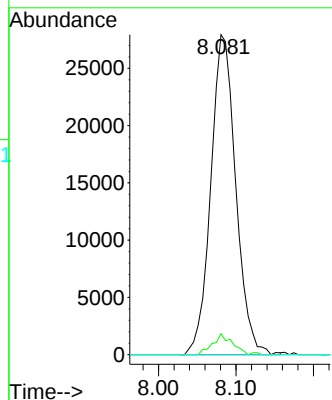
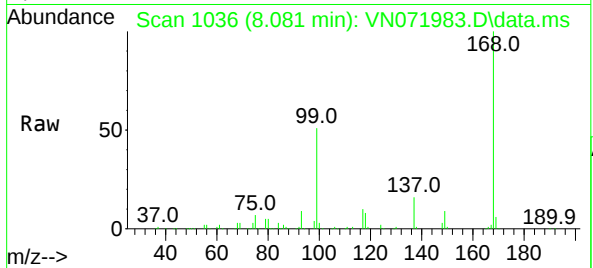




#38
Carbon Tetrachloride
Concen: 6.684 ug/l
RT: 8.081 min Scan# 110
Delta R.T. -0.123 min
Lab File: VN071983.D
Acq: 13 Apr 2022 18:05

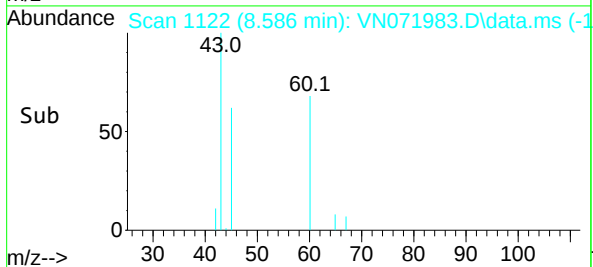
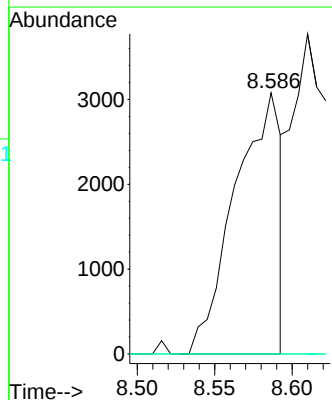
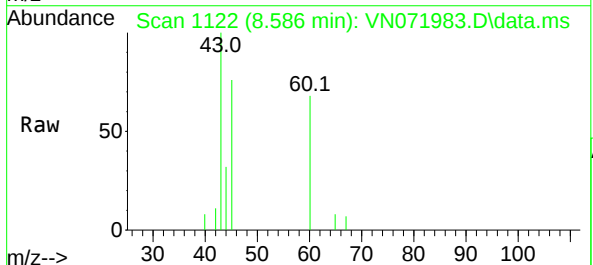
Instrument :
MSVOA_N
ClientSampleId :
DEL-1

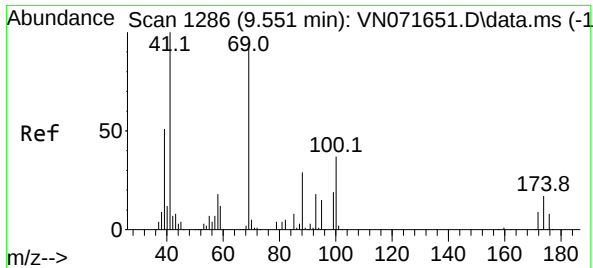
Tgt Ion:117 Resp: 62579
Ion Ratio Lower Upper
117 100
119 6.5 75.8 113.8#
121 0.0 24.6 37.0#



#43
Isopropyl Acetate
Concen: 0.365 ug/l
RT: 8.586 min Scan# 1122
Delta R.T. 0.035 min
Lab File: VN071983.D
Acq: 13 Apr 2022 18:05

Tgt Ion: 43 Resp: 6350
Ion Ratio Lower Upper
43 100
61 0.0 21.9 32.9#
87 0.0 12.0 18.0#

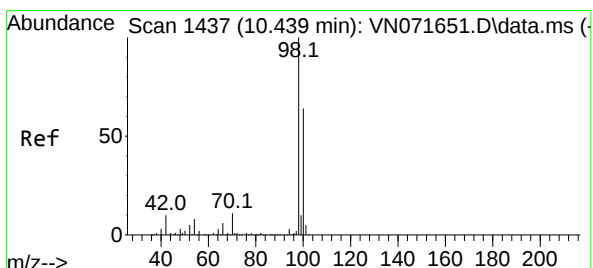
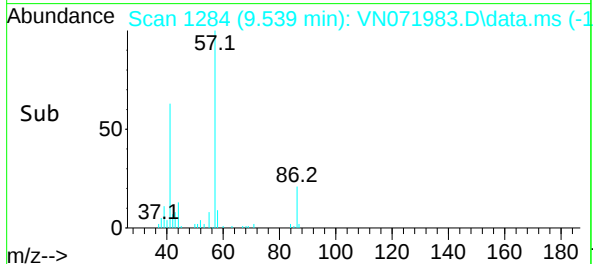
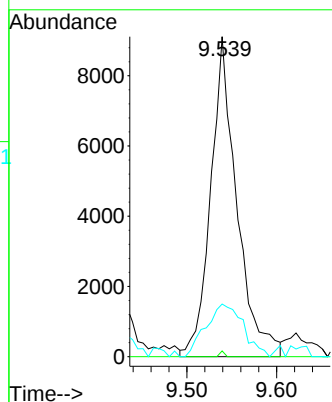
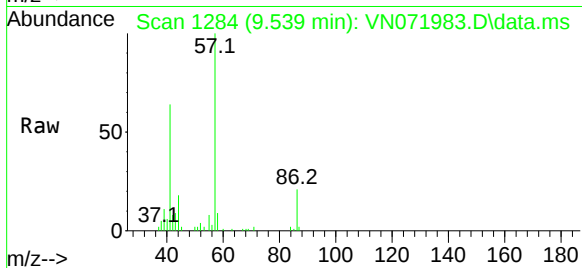




#48
Methyl methacrylate
Concen: 2.552 ug/l
RT: 9.539 min Scan# 1284
Delta R.T. -0.012 min
Lab File: VN071983.D
Acq: 13 Apr 2022 18:05

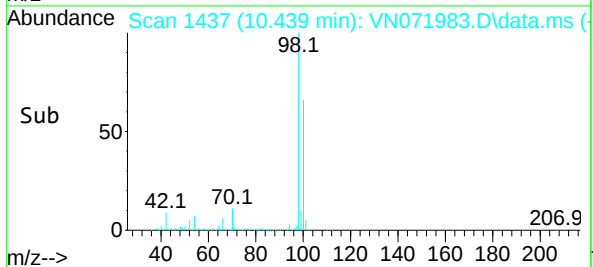
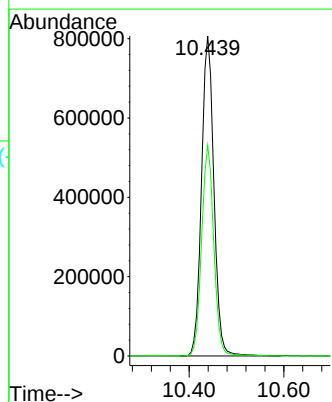
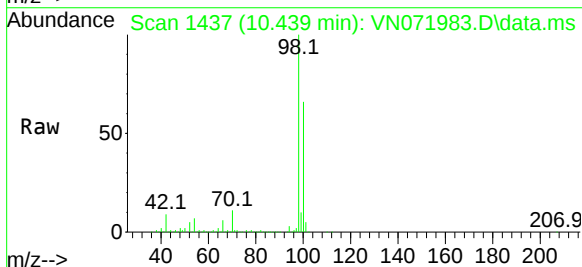
Instrument :
MSVOA_N
ClientSampleId :
DEL-1

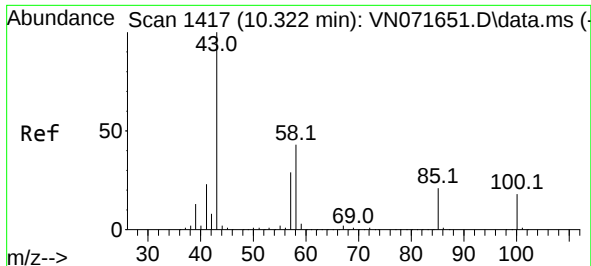
Tgt Ion: 41 Resp: 18414
Ion Ratio Lower Upper
41 100
69 0.3 74.7 112.1#
39 23.6 45.6 68.4#



#50
Toluene-d8
Concen: 52.241 ug/l
RT: 10.439 min Scan# 1437
Delta R.T. 0.000 min
Lab File: VN071983.D
Acq: 13 Apr 2022 18:05

Tgt Ion: 98 Resp: 1461874
Ion Ratio Lower Upper
98 100
100 65.0 52.6 78.8

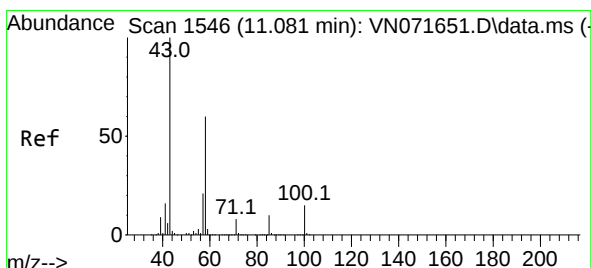
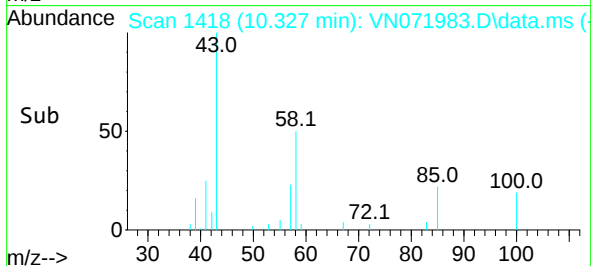
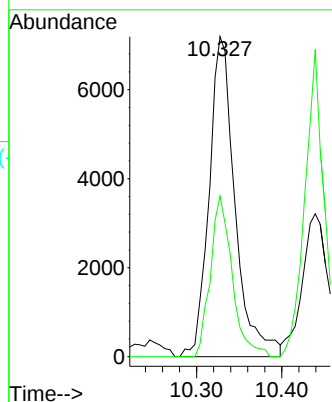
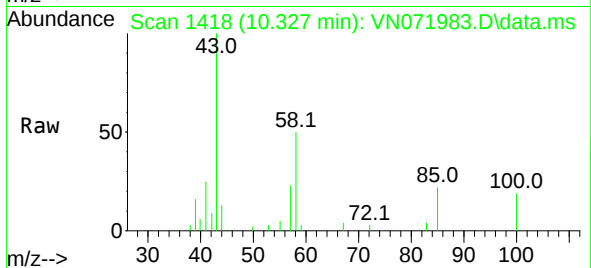




#51
4-Methyl-2-Pentanone
Concen: 1.520 ug/l
RT: 10.327 min Scan# 1417
Delta R.T. 0.005 min
Lab File: VN071983.D
Acq: 13 Apr 2022 18:05

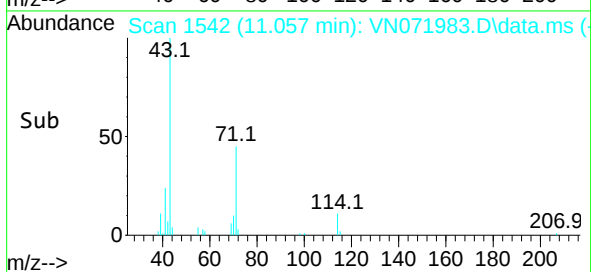
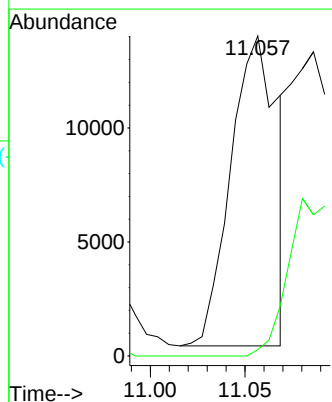
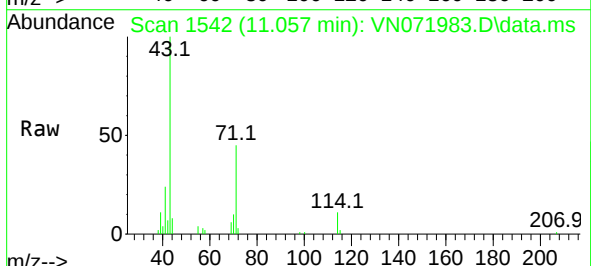
Instrument :
MSVOA_N
ClientSampleId :
DEL-1

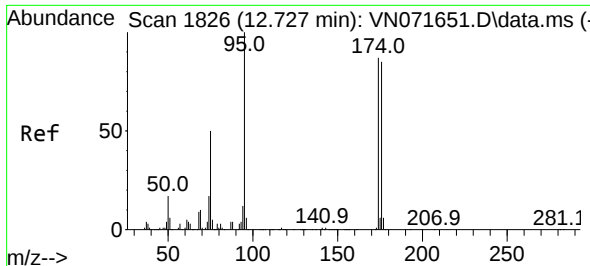
Tgt Ion: 43 Resp: 15199
Ion Ratio Lower Upper
43 100
58 42.2 34.1 51.1



#59
2-Hexanone
Concen: 3.303 ug/l
RT: 11.057 min Scan# 1542
Delta R.T. -0.024 min
Lab File: VN071983.D
Acq: 13 Apr 2022 18:05

Tgt Ion: 43 Resp: 23253
Ion Ratio Lower Upper
43 100
58 0.0 29.7 89.1#

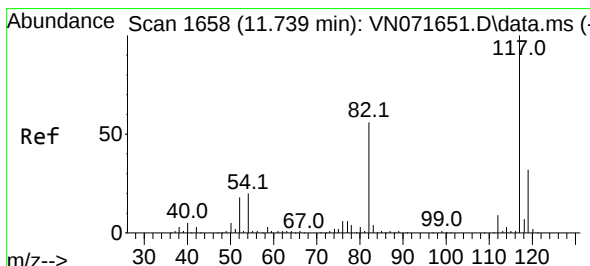
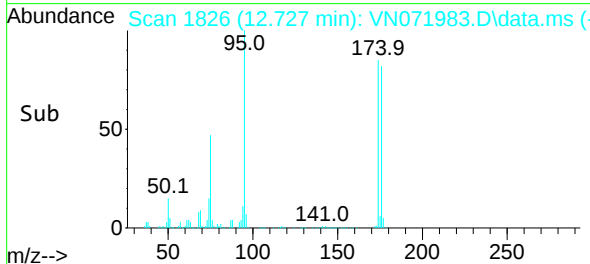
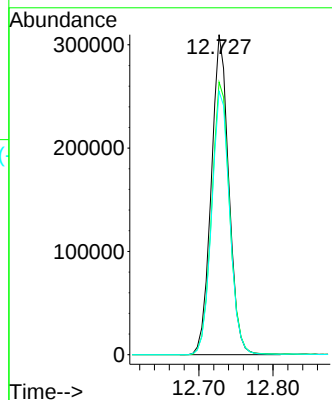
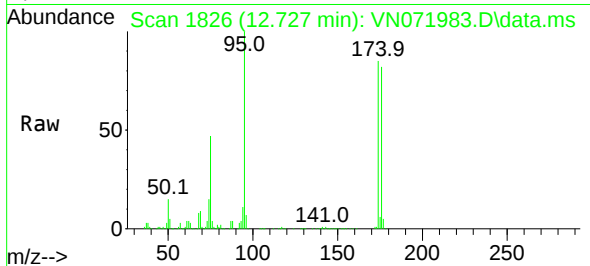




#62
4-Bromofluorobenzene
Concen: 56.409 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN071983.D
Acq: 13 Apr 2022 18:05

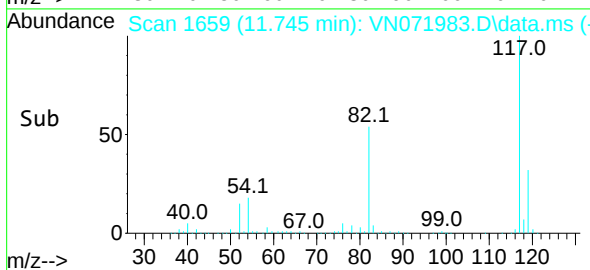
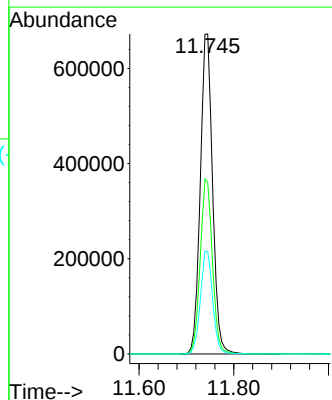
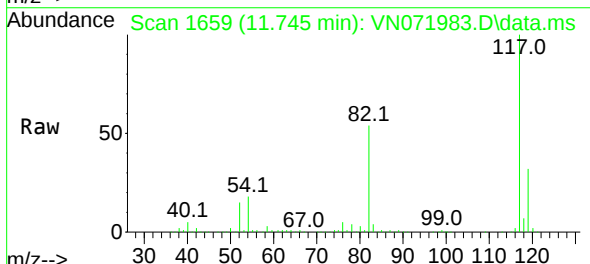
Instrument :
MSVOA_N
ClientSampleId :
DEL-1

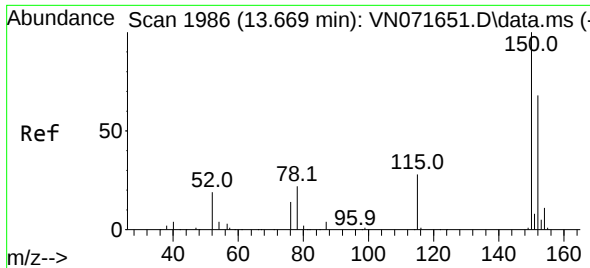
Tgt Ion: 95 Resp: 510514
Ion Ratio Lower Upper
95 100
174 86.8 0.0 167.6
176 84.1 0.0 163.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.745 min Scan# 1659
Delta R.T. 0.006 min
Lab File: VN071983.D
Acq: 13 Apr 2022 18:05

Tgt Ion: 117 Resp: 1205983
Ion Ratio Lower Upper
117 100
82 53.7 44.2 66.2
119 32.0 25.4 38.0

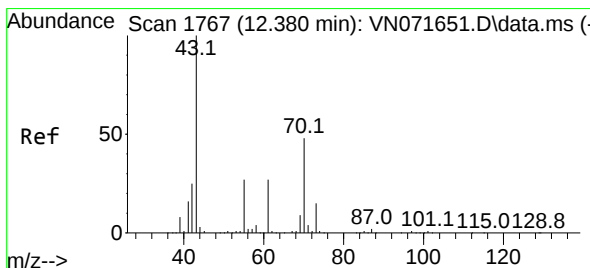
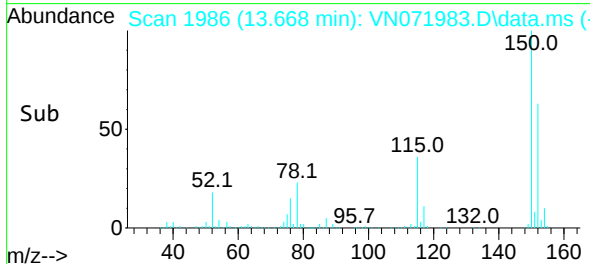
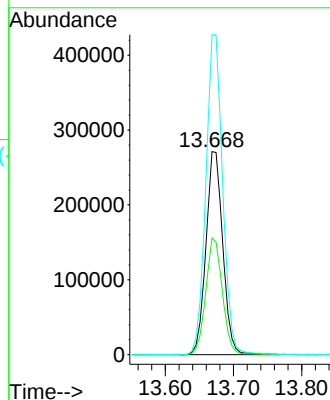
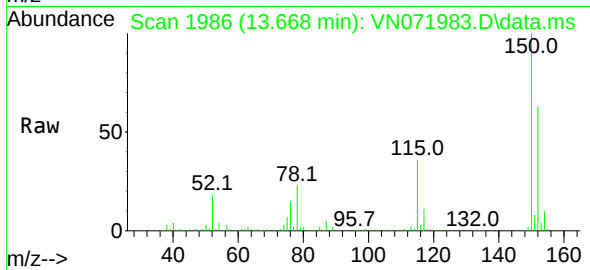




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.668 min Scan# 1986
 Delta R.T. -0.001 min
 Lab File: VN071983.D
 Acq: 13 Apr 2022 18:05

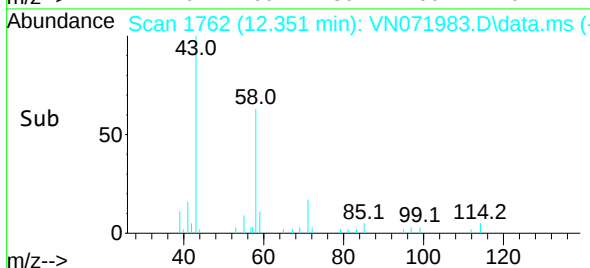
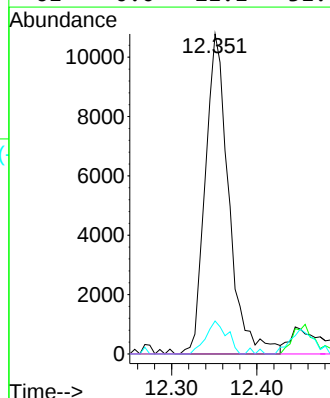
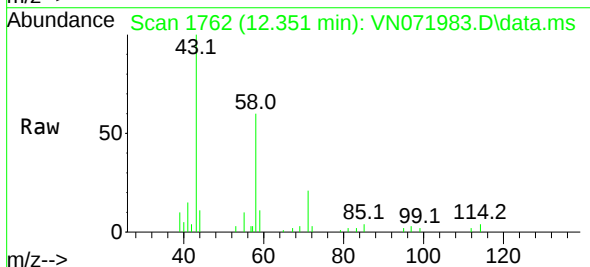
Instrument :
 MSVOA_N
 ClientSampleId :
 DEL-1

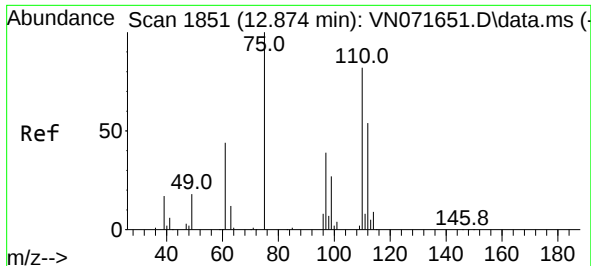
Tgt Ion:152 Resp: 467163
 Ion Ratio Lower Upper
 152 100
 115 56.8 28.9 86.7
 150 157.5 0.0 356.2



#74
 N-ethyl acetate
 Concen: 1.833 ug/l
 RT: 12.351 min Scan# 1762
 Delta R.T. -0.029 min
 Lab File: VN071983.D
 Acq: 13 Apr 2022 18:05

Tgt Ion: 43 Resp: 20677
 Ion Ratio Lower Upper
 43 100
 70 0.0 39.0 58.4#
 55 9.2 21.1 31.7#
 61 0.0 21.1 31.7#

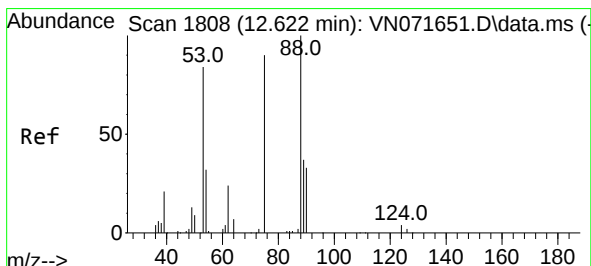
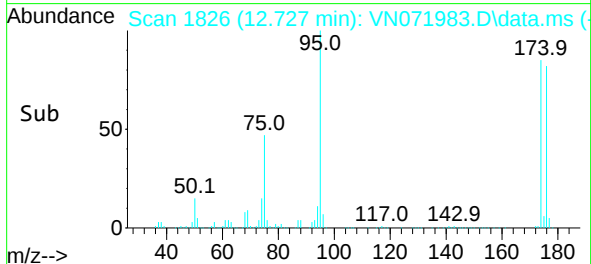
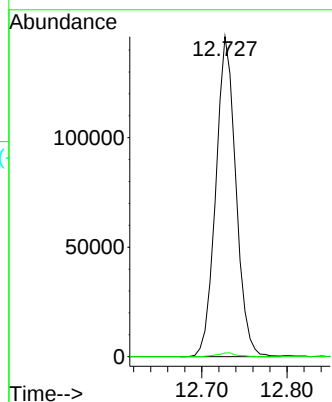
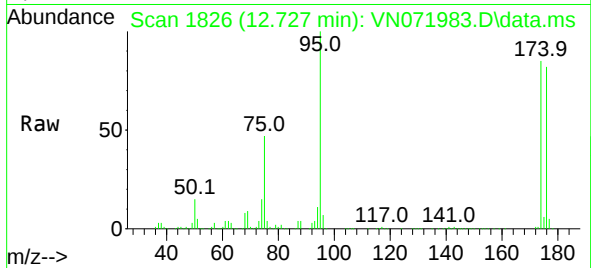




#76
1,2,3-Trichloropropane
Concen: 22.175 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. -0.147 min
Lab File: VN071983.D
Acq: 13 Apr 2022 18:05

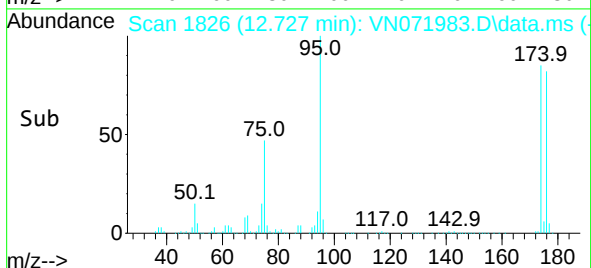
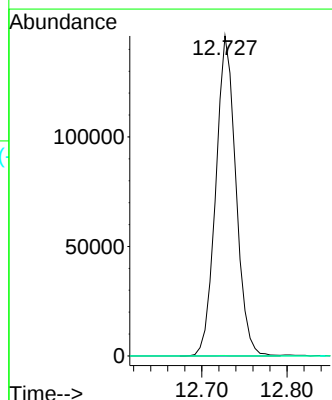
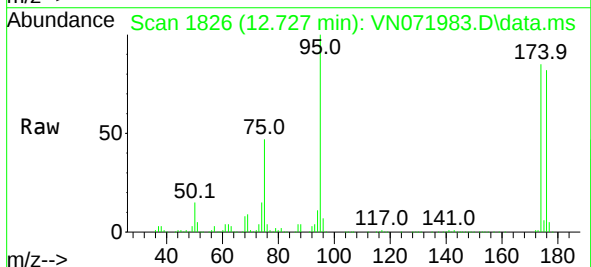
Instrument :
MSVOA_N
ClientSampleId :
DEL-1

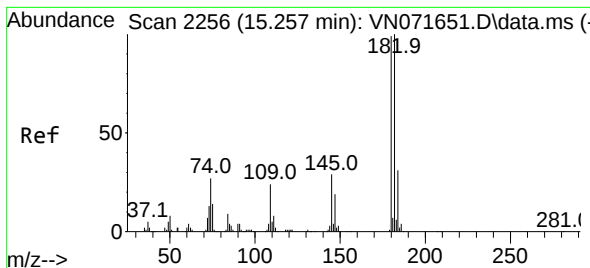
Tgt Ion: 75 Resp: 239977
Ion Ratio Lower Upper
75 100
77 1.2 98.5 295.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 68.718 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.105 min
Lab File: VN071983.D
Acq: 13 Apr 2022 18:05

Tgt Ion: 75 Resp: 239977
Ion Ratio Lower Upper
75 100
53 0.1 78.0 117.0#
89 0.0 37.2 55.8#





#93

1,2,4-Trichlorobenzene

Concen: 2.109 ug/l

RT: 15.262 min Scan# 21

Delta R.T. 0.005 min

Lab File: VN071983.D

Acq: 13 Apr 2022 18:05

Instrument :

MSVOA_N

ClientSampleId :

DEL-1

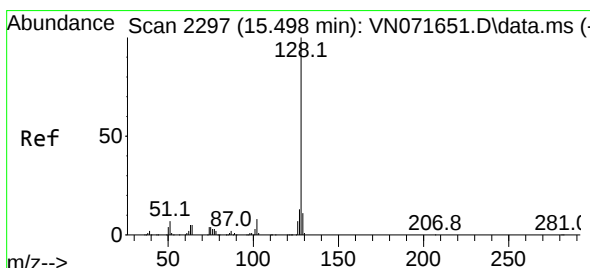
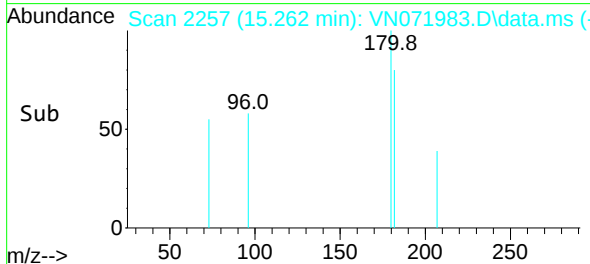
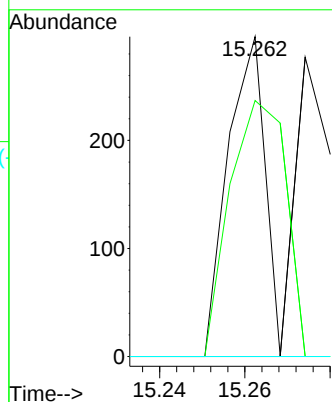
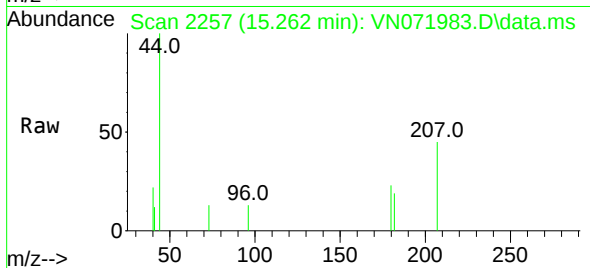
Tgt Ion:180 Resp: 178

Ion Ratio Lower Upper

180 100

182 121.3 47.5 142.5

145 0.0 14.5 43.5#



#95

Naphthalene

Concen: 3.868 ug/l

RT: 15.504 min Scan# 2298

Delta R.T. 0.006 min

Lab File: VN071983.D

Acq: 13 Apr 2022 18:05

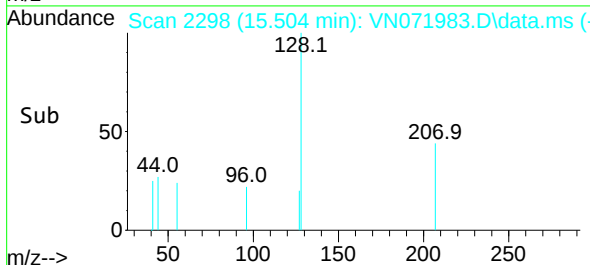
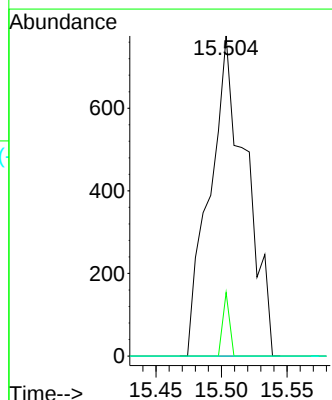
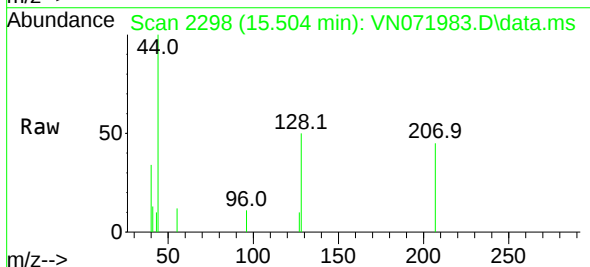
Tgt Ion:128 Resp: 1496

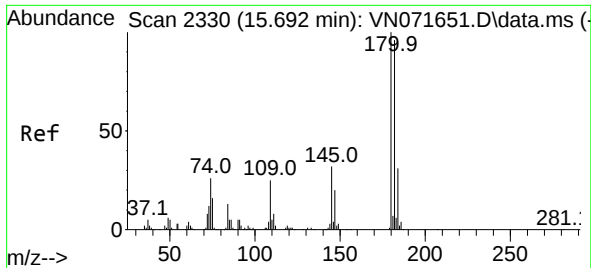
Ion Ratio Lower Upper

128 100

127 3.6 10.3 15.5#

129 0.0 8.6 13.0#





#96
 1,2,3-Trichlorobenzene
 Concen: 2.435 ug/l
 RT: 15.692 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VN071983.D
 Acq: 13 Apr 2022 18:05

Instrument :
 MSVOA_N
 ClientSampleId :
 DEL-1

Tgt Ion	Ratio	Lower	Upper
180	100		
182	155.3	47.8	143.3#
145	0.0	15.5	46.5#

