

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN083022\
 Data File : VN074182.D
 Acq On : 30 Aug 2022 22:29
 Operator : JC\MD
 Sample : PB147340ZHE#01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB147340ZHE#01

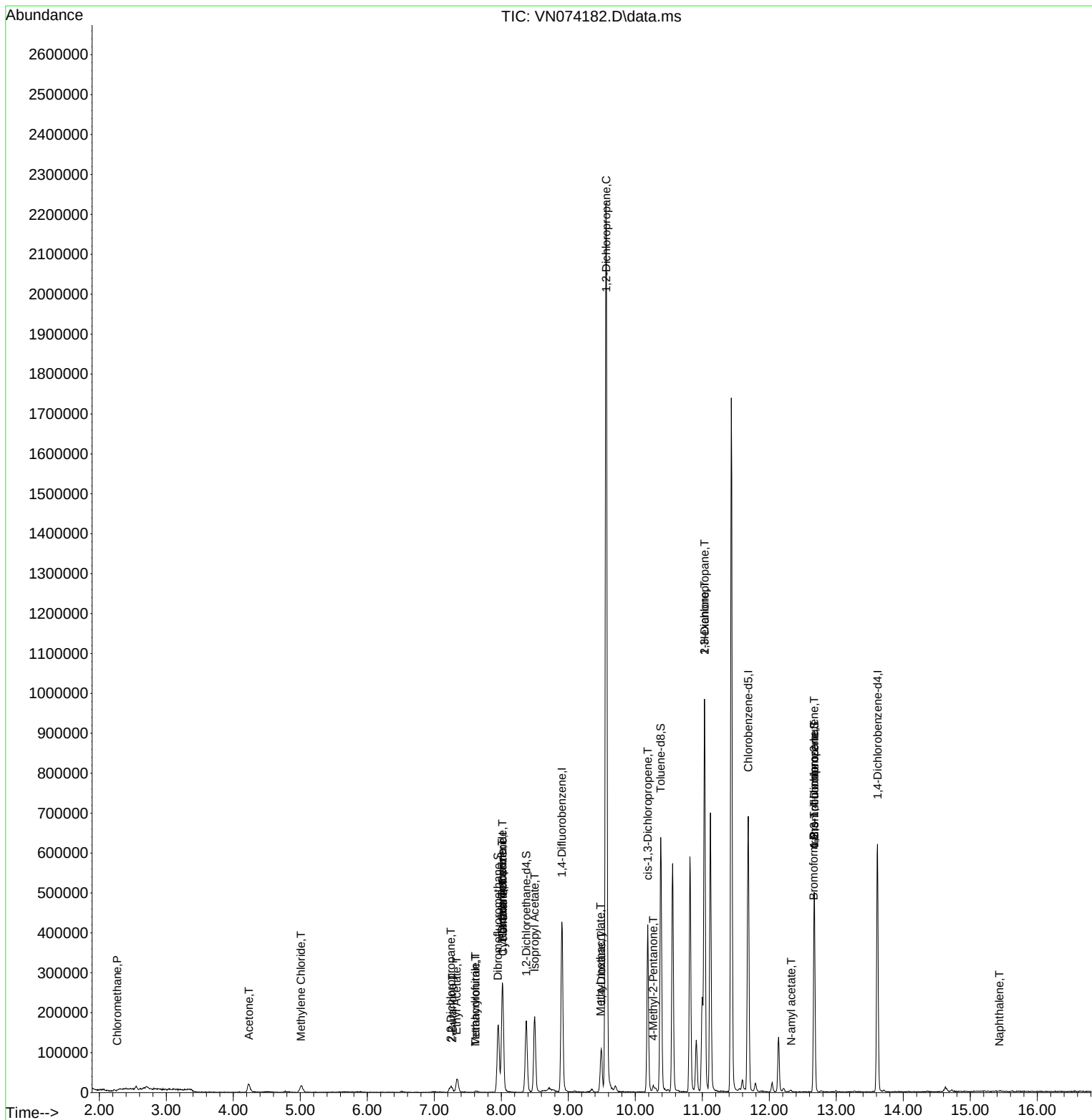
Quant Time: Aug 31 07:05:22 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N083022W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 31 07:02:40 2022
 Response via : Initial Calibration

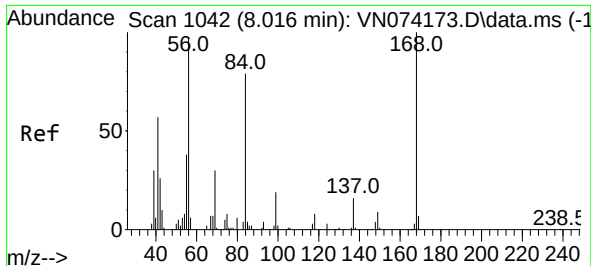
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.022	168	194694	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	354611	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.686	117	372609	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.616	152	151477	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.375	65	137873	45.650	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	91.300%		
35) Dibromofluoromethane	7.951	113	118279	51.258	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	102.520%		
50) Toluene-d8	10.380	98	411383	45.270	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	90.540%		
62) 4-Bromofluorobenzene	12.674	95	155646	56.322	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	112.640%		
Target Compounds					Qvalue	
3) Chloromethane	2.269	50	649	0.229	ug/l #	79
6) Chloroethane	2.981	64	1366	Below Cal	#	42
11) Tert butyl alcohol	5.304	59	243	Below Cal	#	72
16) Acetone	4.234	43	38840	19.246	ug/l	97
18) Methyl Acetate	4.775	43	2407	Below Cal	#	89
20) Methylene Chloride	5.010	84	12250	2.428	ug/l	93
25) 2-Butanone	7.269	43	9433	2.922	ug/l #	82
26) 2,2-Dichloropropane	7.245	77	753	0.495	ug/l #	53
29) Tetrahydrofuran	7.616	42	2000	0.973	ug/l #	61
31) Cyclohexane	8.028	56	7197	1.442	ug/l #	50
36) 1,1-Dichloropropene	8.010	75	18738	5.005	ug/l #	49
37) Ethyl Acetate	7.334	43	52261	8.347	ug/l	98
38) Carbon Tetrachloride	8.016	117	20910	6.149	ug/l #	16
41) Methacrylonitrile	7.616	41	755	0.261	ug/l #	36
43) Isopropyl Acetate	8.498	43	222838	26.474	ug/l #	85
45) 1,2-Dichloropropane	9.569	63	2617	0.825	ug/l #	44
48) Methyl methacrylate	9.480	41	8426	2.107	ug/l #	38
49) 1,4-Dioxane	9.492	88	151	1.750	ug/l #	1
51) 4-Methyl-2-Pentanone	10.269	43	10675	1.747	ug/l	90
54) cis-1,3-Dichloropropene	10.186	75	65225	14.791	ug/l #	72
57) 1,3-Dichloropropane	11.033	76	9958	1.912	ug/l #	44
59) 2-Hexanone	11.033	43	150404	32.443	ug/l #	46
71) Bromoform	12.663	173	1057	0.419	ug/l #	1
74) N-amyl acetate	12.327	43	1738	0.237	ug/l #	62
76) 1,2,3-Trichloropropane	12.669	75	90150	23.856	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.669	75	90150	61.774	ug/l #	10
95) Naphthalene	15.433	128	2224	1.340	ug/l #	82

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

Quant Time: Aug 31 07:05:22 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N083022W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 31 07:02:40 2022
Response via : Initial Calibration

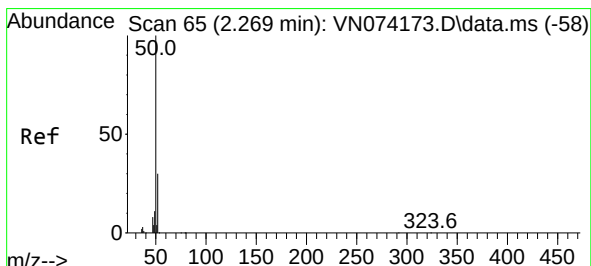
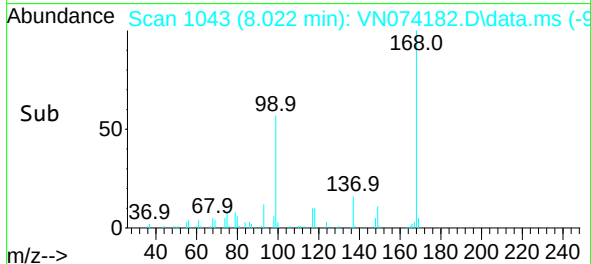
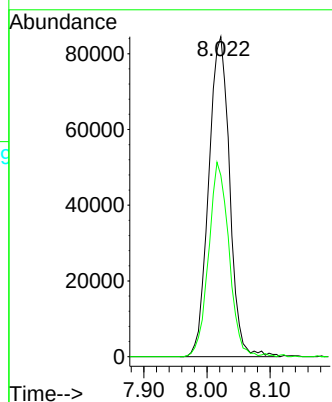
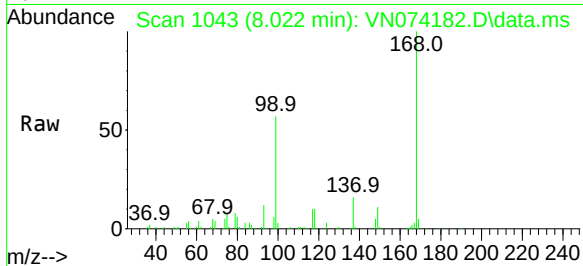




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.022 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN074182.D
Acq: 30 Aug 2022 22:29

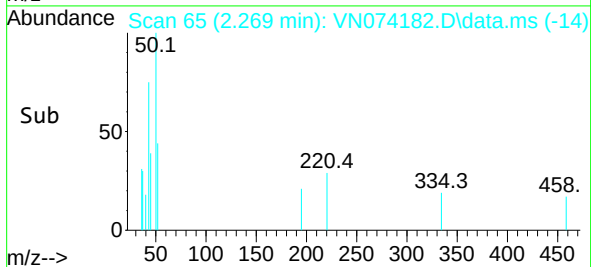
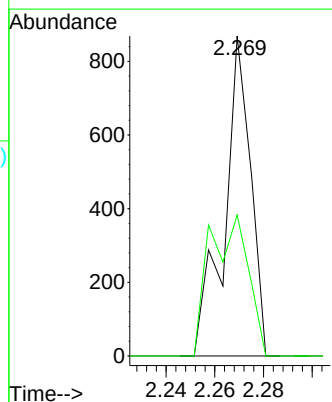
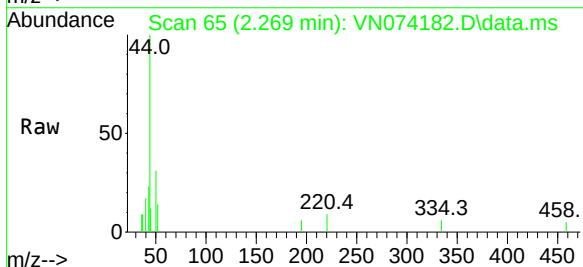
Instrument :
MSVOA_N
ClientSampleId :
PB147340ZHE#01

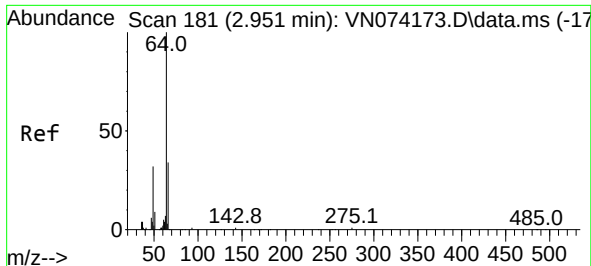
Tgt Ion:168 Resp: 194694
Ion Ratio Lower Upper
168 100
99 56.6 42.3 63.5



#3
Chloromethane
Concen: 0.229 ug/l
RT: 2.269 min Scan# 65
Delta R.T. 0.000 min
Lab File: VN074182.D
Acq: 30 Aug 2022 22:29

Tgt Ion: 50 Resp: 649
Ion Ratio Lower Upper
50 100
52 44.1 25.7 38.5#

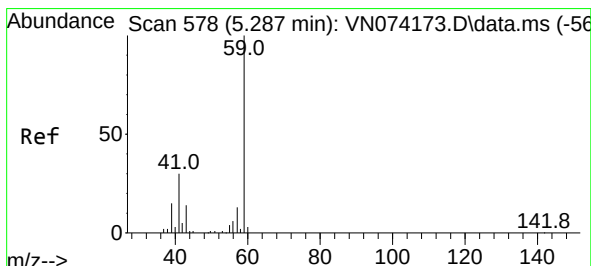
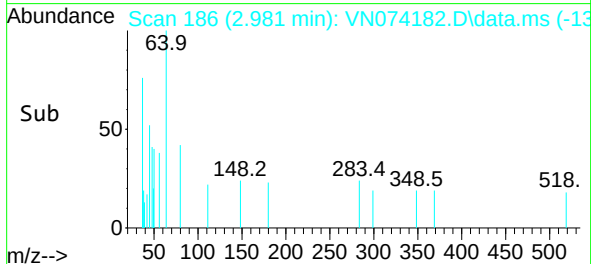
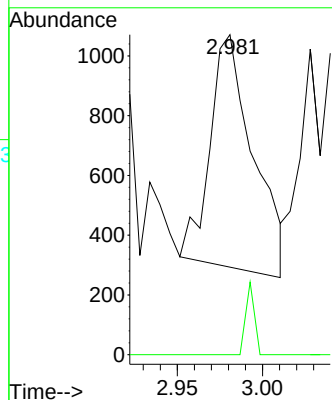
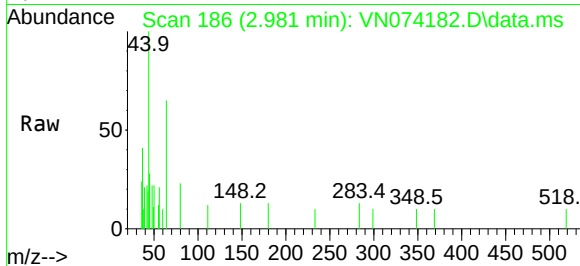




#6
Chloroethane
Concen: Below Cal
RT: 2.981 min Scan# 11
Delta R.T. 0.030 min
Lab File: VN074182.D
Acq: 30 Aug 2022 22:29

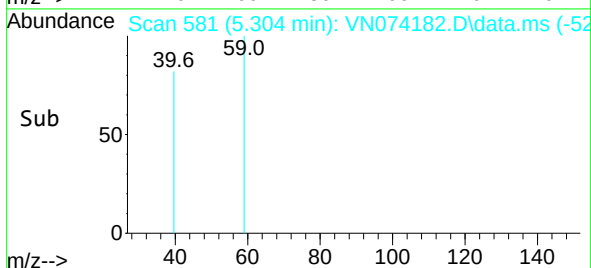
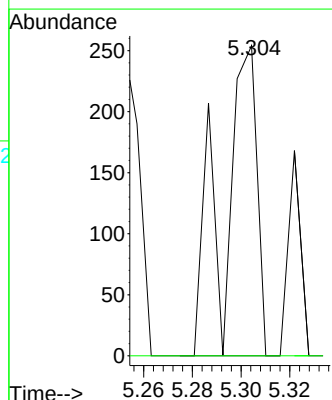
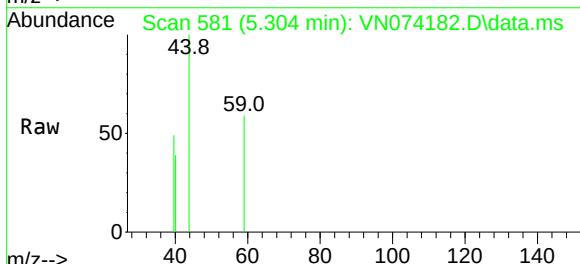
Instrument :
MSVOA_N
ClientSampleId :
PB147340ZHE#01

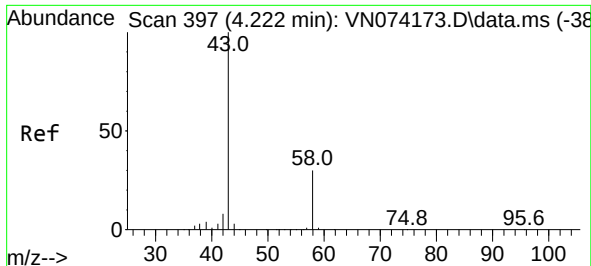
Tgt Ion: 64 Resp: 1366
Ion Ratio Lower Upper
64 100
66 0.0 26.2 39.4#



#11
Tert butyl alcohol
Concen: Below Cal
RT: 5.304 min Scan# 581
Delta R.T. 0.017 min
Lab File: VN074182.D
Acq: 30 Aug 2022 22:29

Tgt Ion: 59 Resp: 243
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

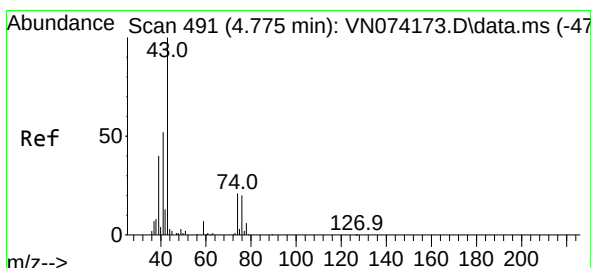
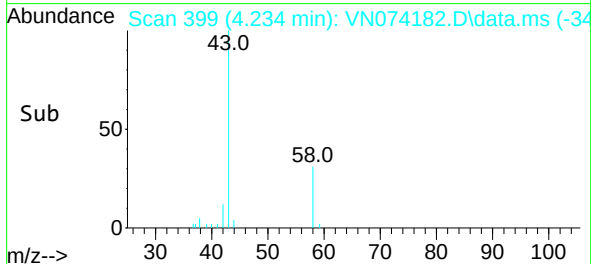
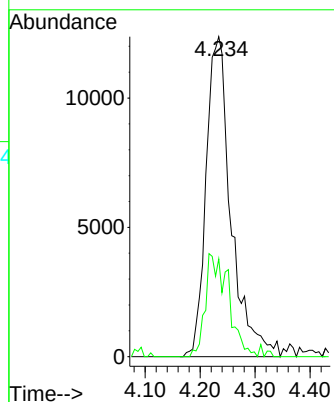
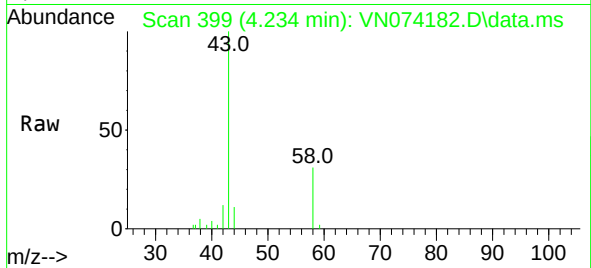




#16
Acetone
Concen: 19.246 ug/l
RT: 4.234 min Scan# 399
Delta R.T. 0.012 min
Lab File: VN074182.D
Acq: 30 Aug 2022 22:29

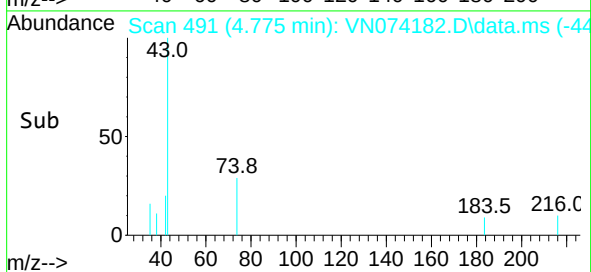
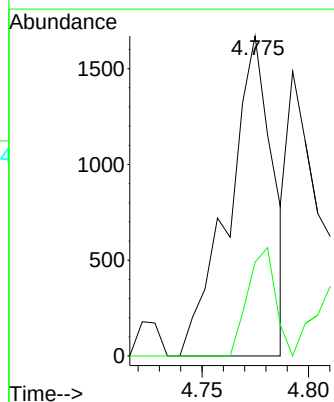
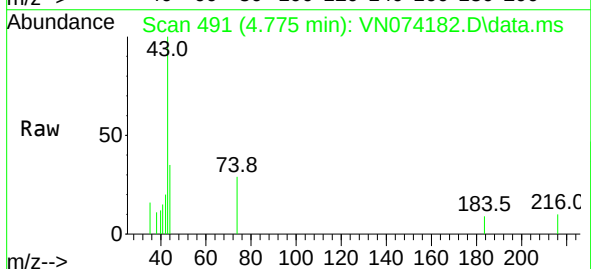
Instrument :
MSVOA_N
ClientSampleId :
PB147340ZHE#01

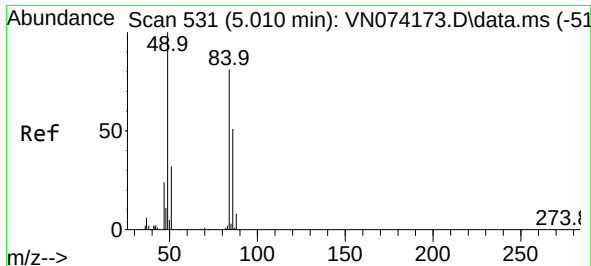
Tgt Ion: 43 Resp: 38840
Ion Ratio Lower Upper
43 100
58 30.6 26.0 39.0



#18
Methyl Acetate
Concen: Below Cal
RT: 4.775 min Scan# 491
Delta R.T. -0.000 min
Lab File: VN074182.D
Acq: 30 Aug 2022 22:29

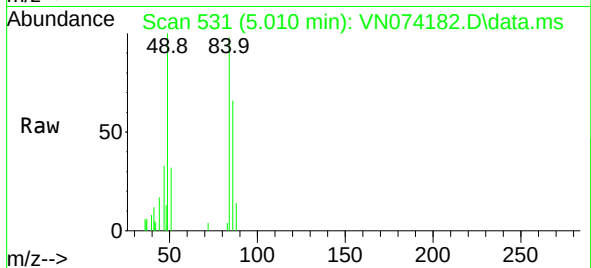
Tgt Ion: 43 Resp: 2407
Ion Ratio Lower Upper
43 100
74 21.1 21.6 32.4#



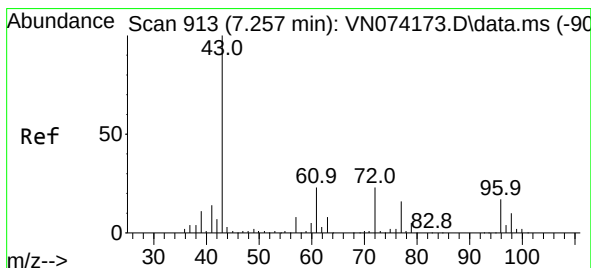
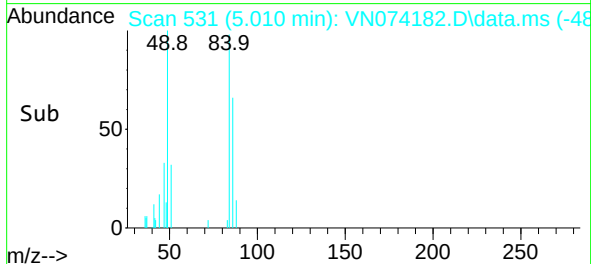
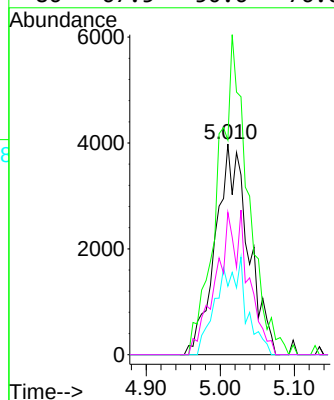


#20
Methylene Chloride
Concen: 2.428 ug/l
RT: 5.010 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN074182.D
Acq: 30 Aug 2022 22:29

Instrument :
MSVOA_N
ClientSampleId :
PB147340ZHE#01

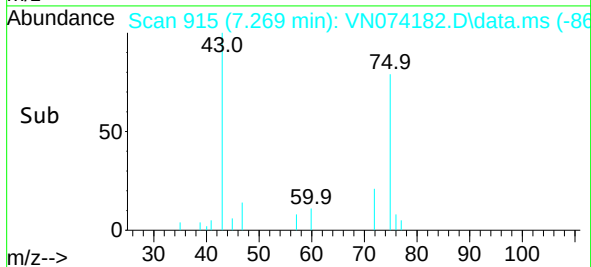
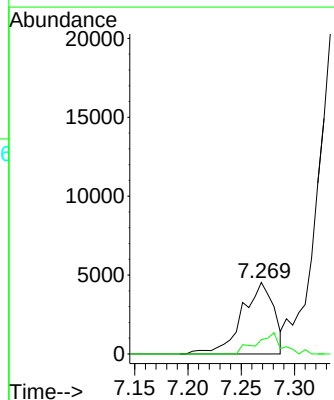
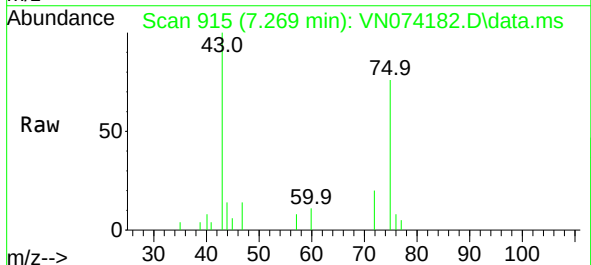


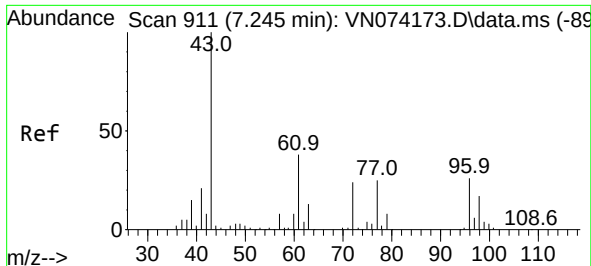
Tgt Ion: 84	Resp: 12250
Ion Ratio	Lower Upper
84 100	
49 101.8	88.3 132.5
51 32.5	28.2 42.2
86 67.5	50.6 76.0



#25
2-Butanone
Concen: 2.922 ug/l
RT: 7.269 min Scan# 915
Delta R.T. 0.012 min
Lab File: VN074182.D
Acq: 30 Aug 2022 22:29

Tgt Ion: 43	Resp: 9433		
Ion Ratio	Lower	Upper	
43 100			
72 20.1	23.7	35.5#	

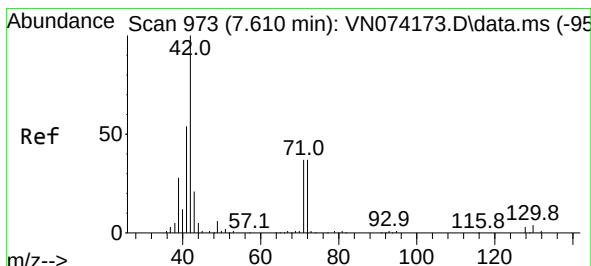
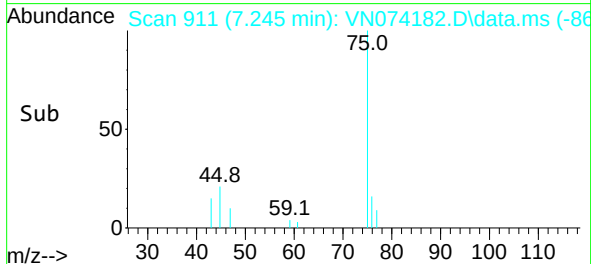
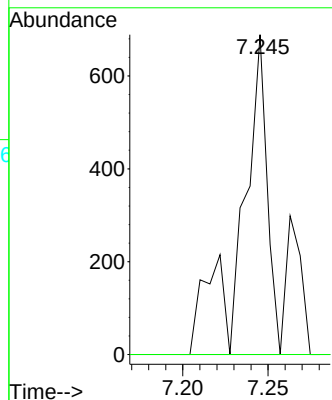
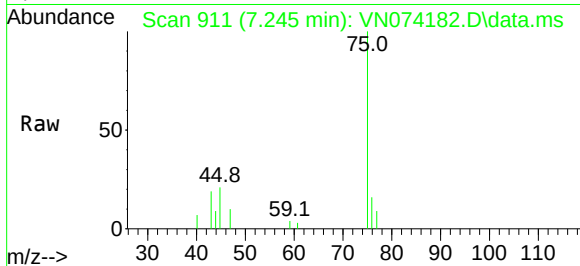




#26
2,2-Dichloropropane
Concen: 0.495 ug/l
RT: 7.245 min Scan# 911
Delta R.T. 0.000 min
Lab File: VN074182.D
Acq: 30 Aug 2022 22:29

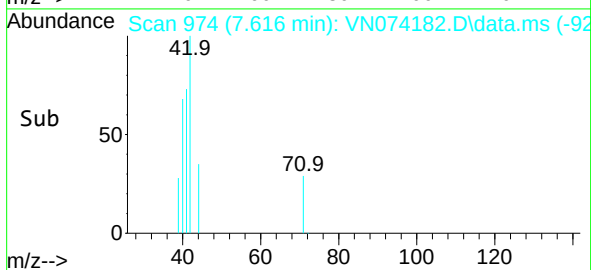
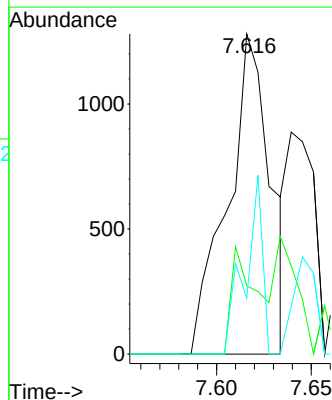
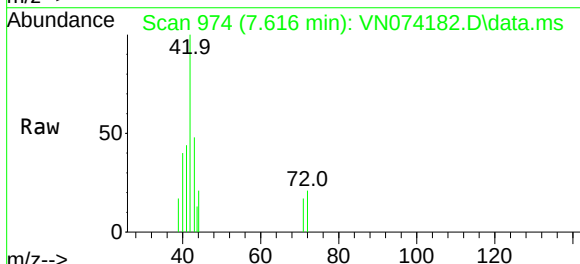
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MSVOA_N
ClientSampleId :
PB147340ZHE#01

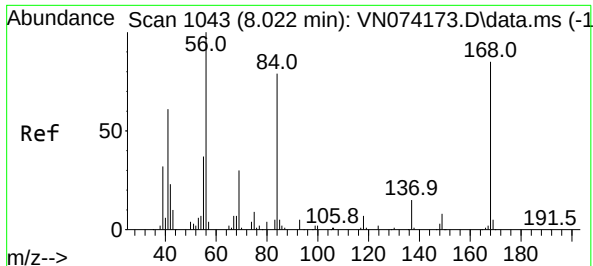
Tgt Ion: 77 Resp: 753
Ion Ratio Lower Upper
77 100
97 0.0 11.4 34.2#



#29
Tetrahydrofuran
Concen: 0.973 ug/l
RT: 7.616 min Scan# 974
Delta R.T. 0.006 min
Lab File: VN074182.D
Acq: 30 Aug 2022 22:29

Tgt Ion: 42 Resp: 2000
Ion Ratio Lower Upper
42 100
72 20.4 39.7 59.5#
71 22.9 36.6 55.0#





#31

Cyclohexane

Concen: 1.442 ug/l

RT: 8.028 min Scan# 1103

Delta R.T. 0.006 min

Lab File: VN074182.D

Acq: 30 Aug 2022 22:29

Instrument :

MSVOA_N

ClientSampleId :

PB147340ZHE#01

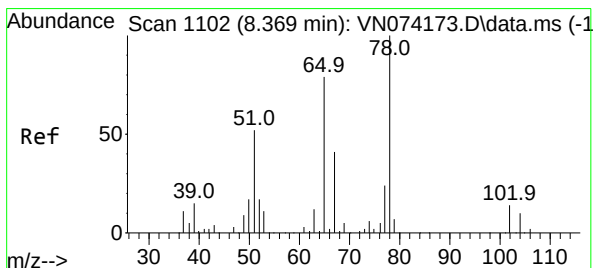
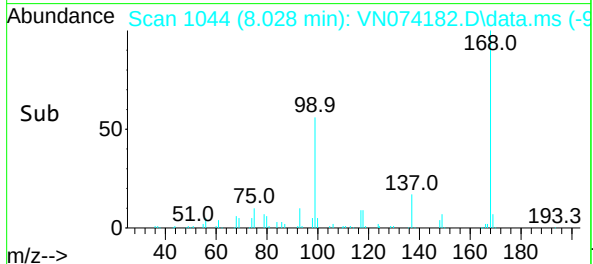
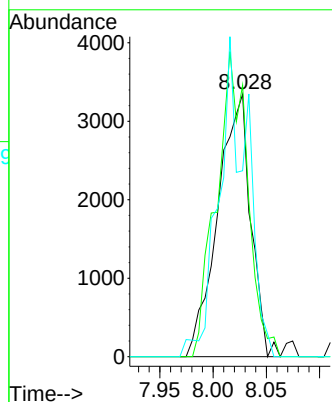
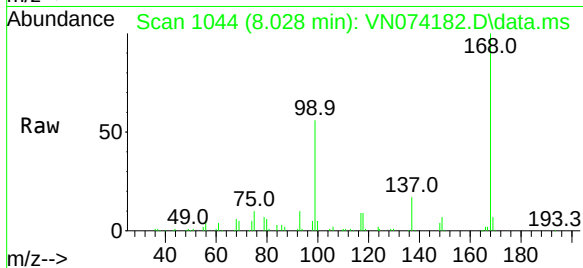
Tgt Ion: 56 Resp: 7197

Ion Ratio Lower Upper

56 100

69 103.5 27.8 41.8#

84 70.8 76.9 115.3#



#33

1,2-Dichloroethane-d4

Concen: 45.650 ug/l

RT: 8.375 min Scan# 1103

Delta R.T. 0.006 min

Lab File: VN074182.D

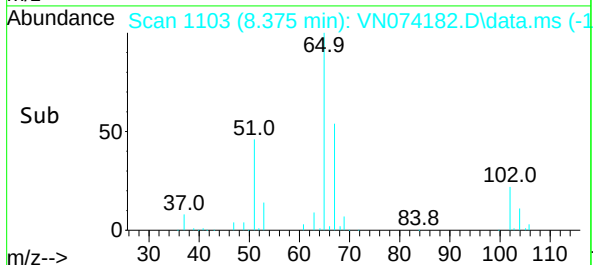
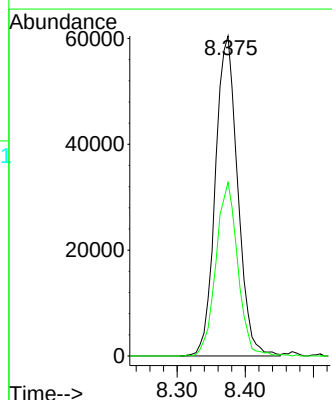
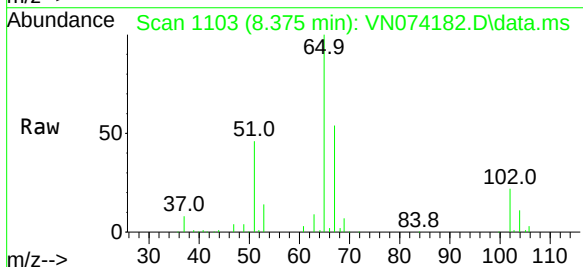
Acq: 30 Aug 2022 22:29

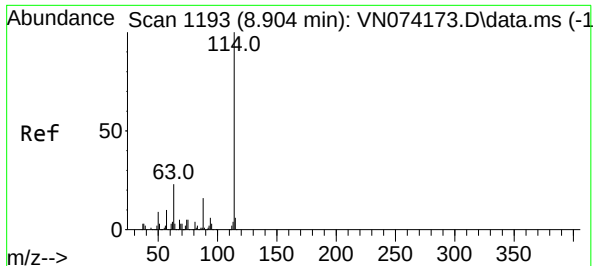
Tgt Ion: 65 Resp: 137873

Ion Ratio Lower Upper

65 100

67 52.8 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.904 min Scan# 1193

Delta R.T. 0.000 min

Lab File: VN074182.D

Acq: 30 Aug 2022 22:29

Instrument :

MSVOA_N

ClientSampleId :

PB147340ZHE#01

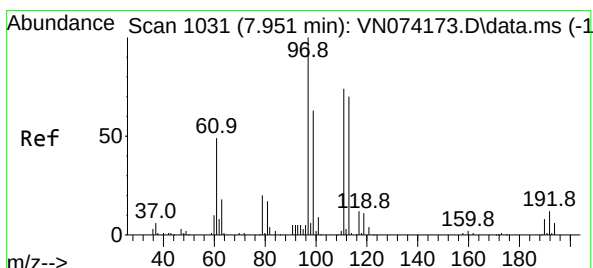
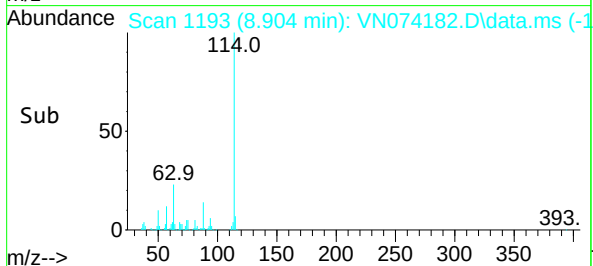
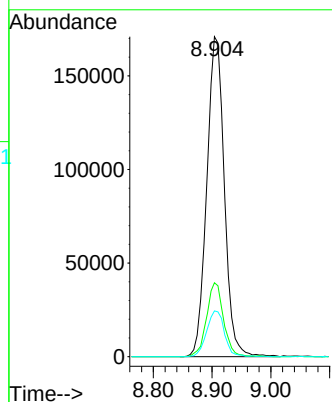
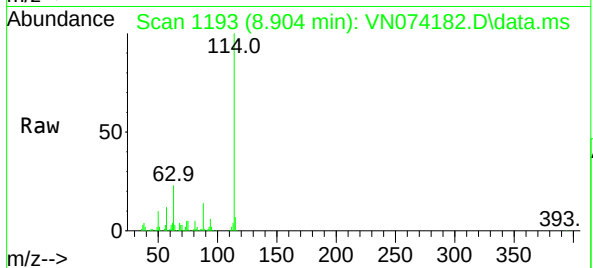
Tgt Ion:114 Resp: 354611

Ion Ratio Lower Upper

114 100

63 23.1 0.0 40.0

88 14.3 0.0 32.6



#35

Dibromofluoromethane

Concen: 51.258 ug/l

RT: 7.951 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VN074182.D

Acq: 30 Aug 2022 22:29

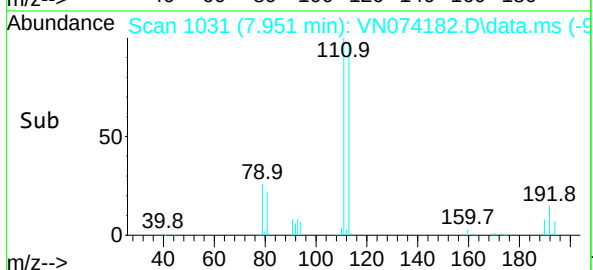
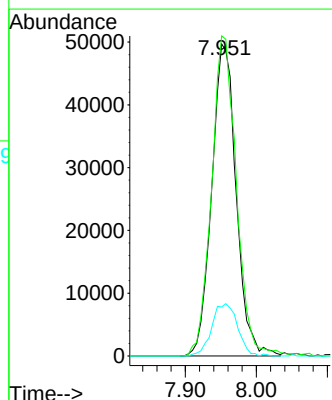
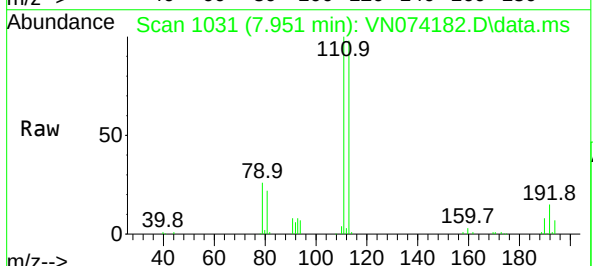
Tgt Ion:113 Resp: 118279

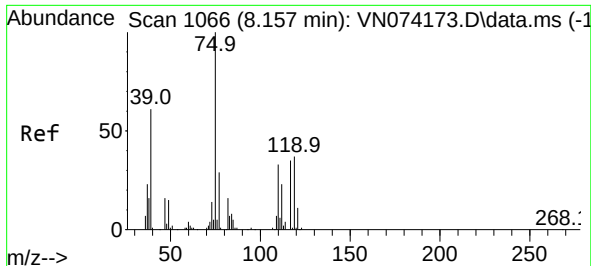
Ion Ratio Lower Upper

113 100

111 104.7 81.4 122.0

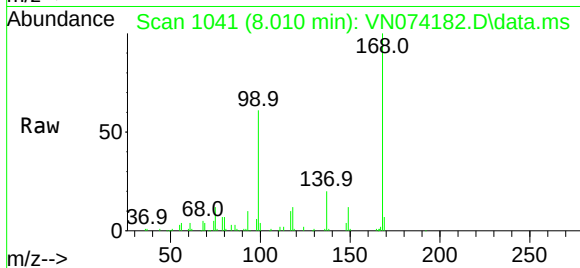
192 17.6 17.0 25.6



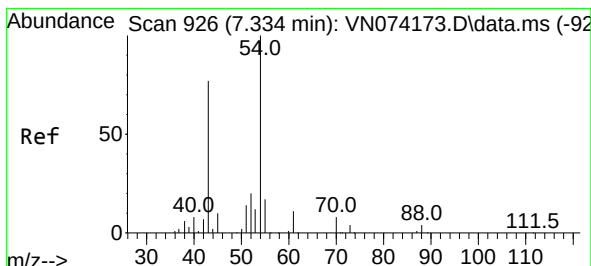
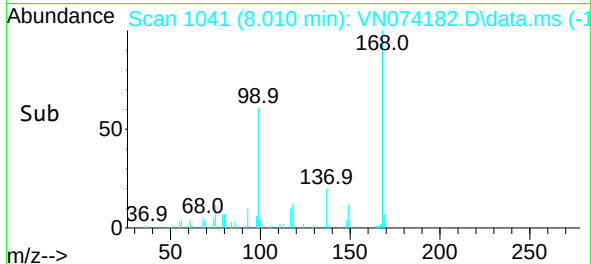
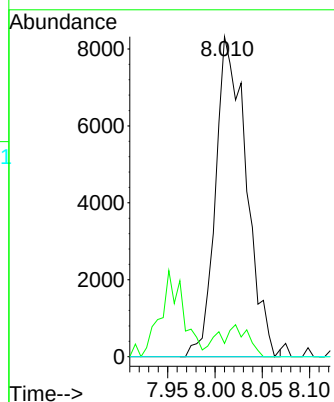


#36
1,1-Dichloropropene
Concen: 5.005 ug/l
RT: 8.010 min Scan# 1041
Delta R.T. -0.147 min
Lab File: VN074182.D
Acq: 30 Aug 2022 22:29

Instrument :
MSVOA_N
ClientSampleId :
PB147340ZHE#01

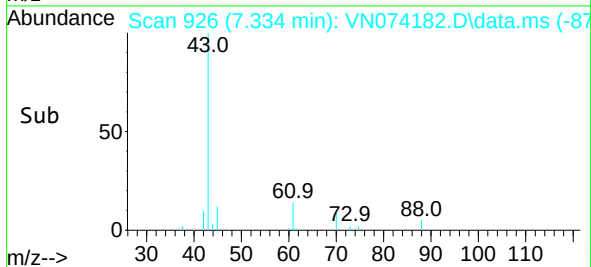
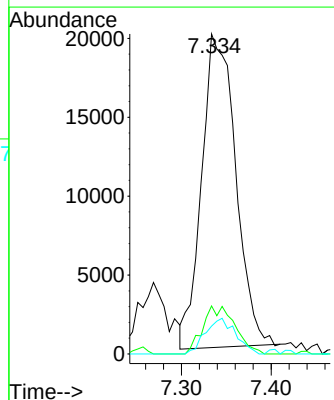
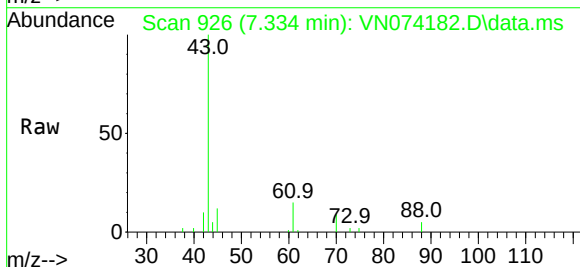


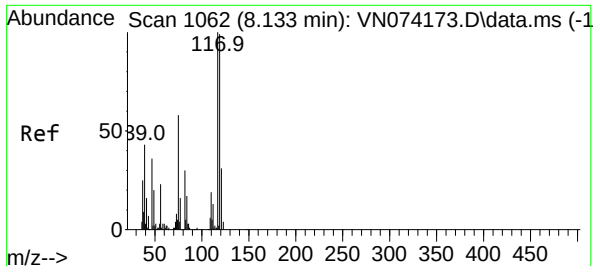
Tgt Ion: 75 Resp: 18738
Ion Ratio Lower Upper
75 100
110 9.5 18.3 54.8#
77 0.0 25.1 37.7#



#37
Ethyl Acetate
Concen: 8.347 ug/l
RT: 7.334 min Scan# 926
Delta R.T. 0.000 min
Lab File: VN074182.D
Acq: 30 Aug 2022 22:29

Tgt Ion: 43 Resp: 52261
Ion Ratio Lower Upper
43 100
61 14.6 11.8 17.6
70 10.1 9.3 13.9

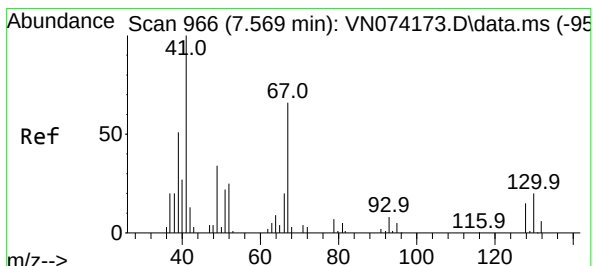
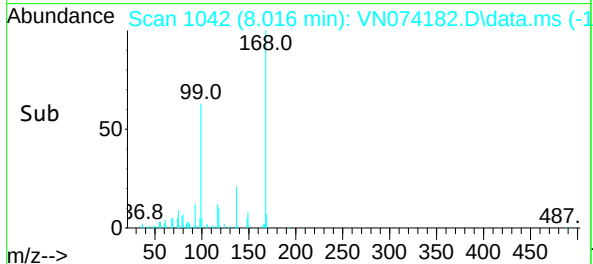
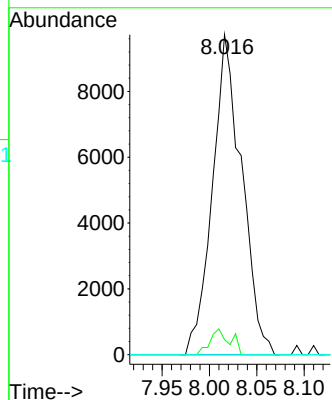
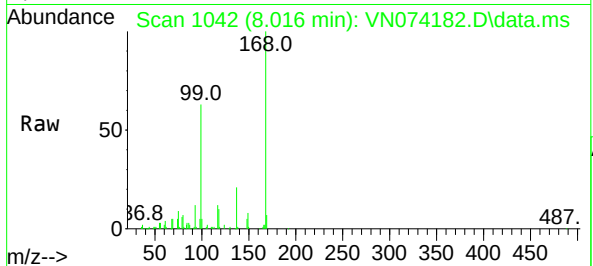




#38
Carbon Tetrachloride
Concen: 6.149 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.117 min
Lab File: VN074182.D
Acq: 30 Aug 2022 22:29

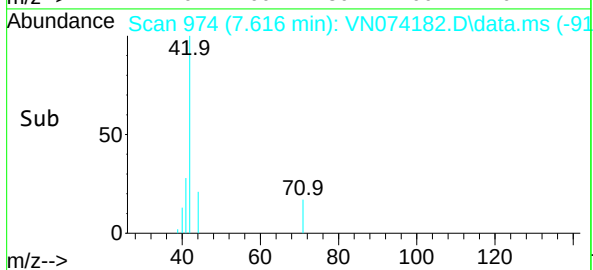
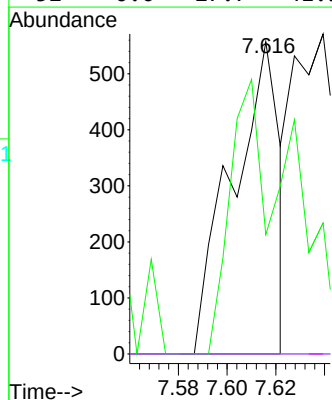
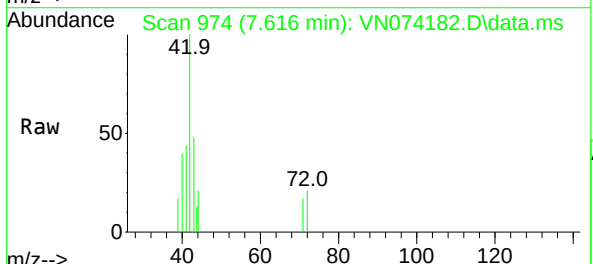
Instrument :
MSVOA_N
ClientSampleId :
PB147340ZHE#01

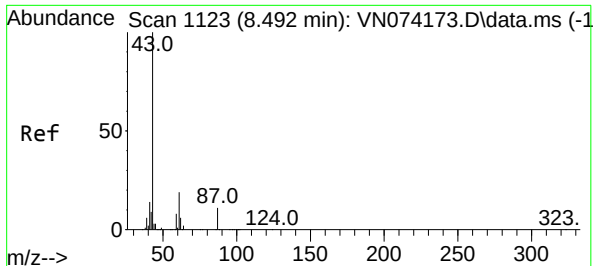
Tgt Ion:117 Resp: 20910
Ion Ratio Lower Upper
117 100
119 4.7 75.8 113.8#
121 0.0 24.6 37.0#



#41
Methacrylonitrile
Concen: 0.261 ug/l
RT: 7.616 min Scan# 974
Delta R.T. 0.047 min
Lab File: VN074182.D
Acq: 30 Aug 2022 22:29

Tgt Ion: 41 Resp: 755
Ion Ratio Lower Upper
41 100
39 74.4 48.6 73.0#
67 0.0 73.4 110.2#
52 0.0 27.7 41.5#





#43

Isopropyl Acetate

Concen: 26.474 ug/l

RT: 8.498 min Scan# 1123

Delta R.T. 0.006 min

Lab File: VN074182.D

Acq: 30 Aug 2022 22:29

Instrument :

MSVOA_N

ClientSampleId :

PB147340ZHE#01

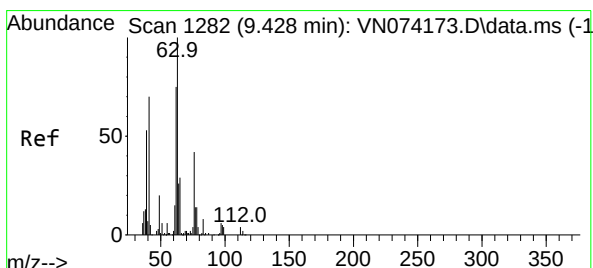
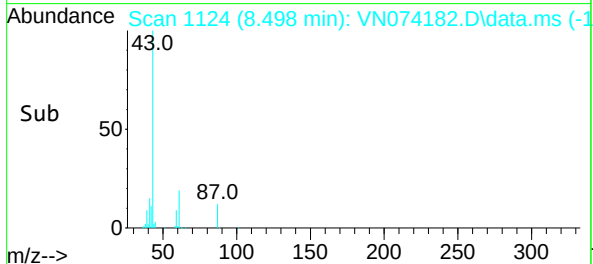
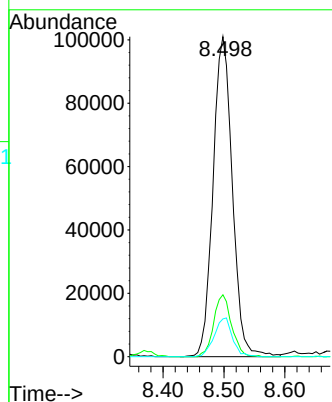
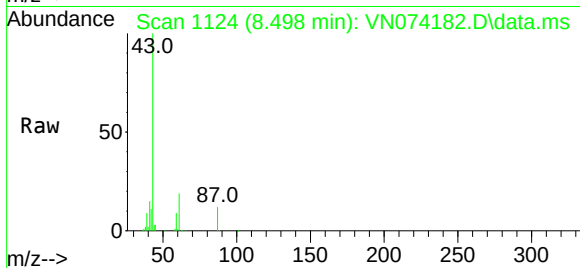
Tgt Ion: 43 Resp: 222838

Ion Ratio Lower Upper

43 100

61 17.9 21.9 32.9#

87 11.4 12.0 18.0#



#45

1,2-Dichloropropane

Concen: 0.825 ug/l

RT: 9.569 min Scan# 1306

Delta R.T. 0.141 min

Lab File: VN074182.D

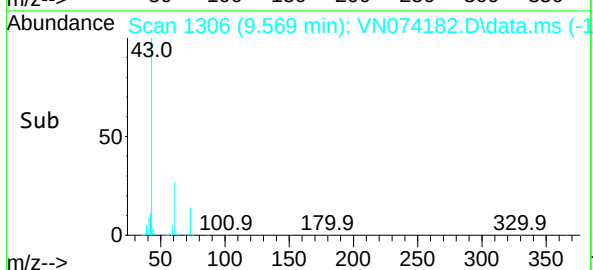
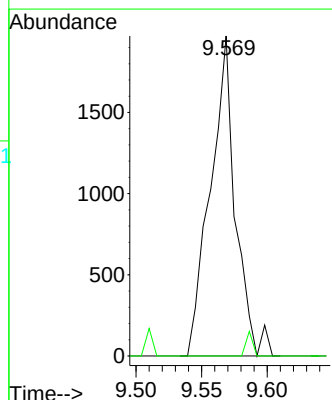
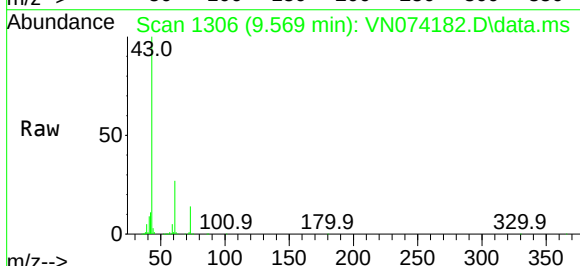
Acq: 30 Aug 2022 22:29

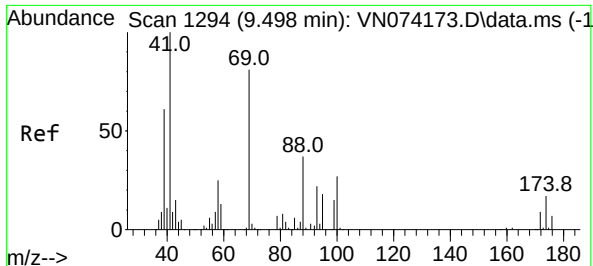
Tgt Ion: 63 Resp: 2617

Ion Ratio Lower Upper

63 100

65 0.0 24.9 37.3#

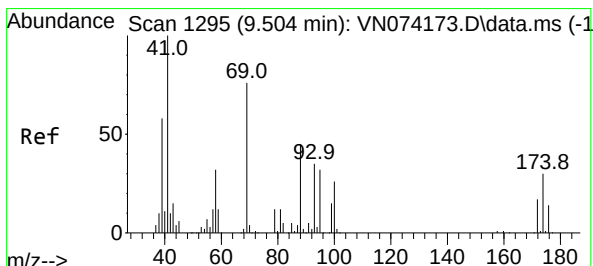
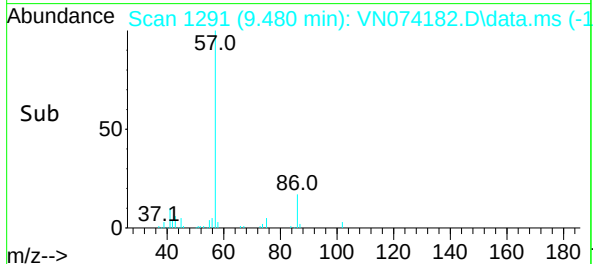
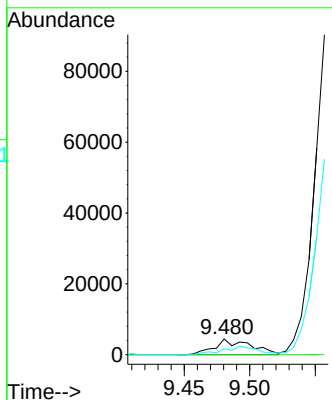
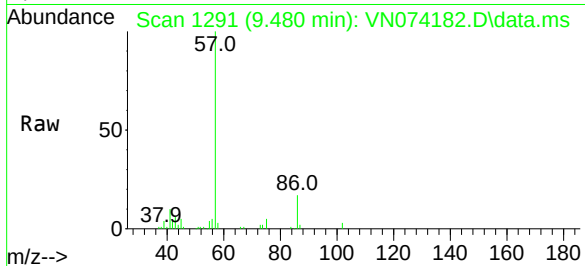




#48
Methyl methacrylate
Concen: 2.107 ug/l
RT: 9.480 min Scan# 11
Delta R.T. -0.018 min
Lab File: VN074182.D
Acq: 30 Aug 2022 22:29

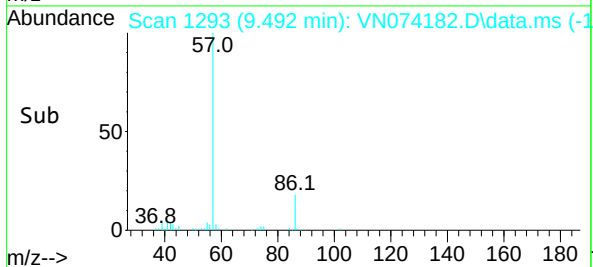
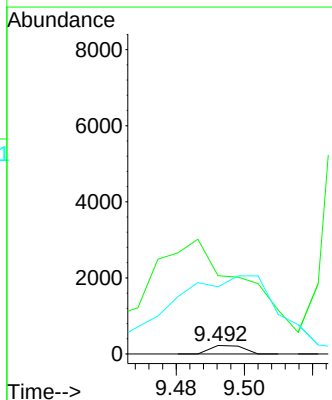
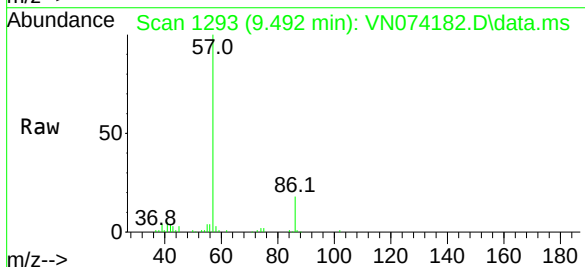
Instrument :
MSVOA_N
ClientSampleId :
PB147340ZHE#01

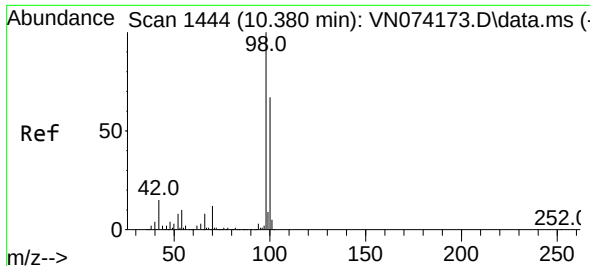
Tgt Ion: 41 Resp: 8426
Ion Ratio Lower Upper
41 100
69 0.0 74.7 112.1#
39 52.7 45.6 68.4



#49
1,4-Dioxane
Concen: 1.750 ug/l
RT: 9.492 min Scan# 1293
Delta R.T. -0.012 min
Lab File: VN074182.D
Acq: 30 Aug 2022 22:29

Tgt Ion: 88 Resp: 151
Ion Ratio Lower Upper
88 100
43 0.0 20.2 30.4#
58 3249.7 54.2 81.4#

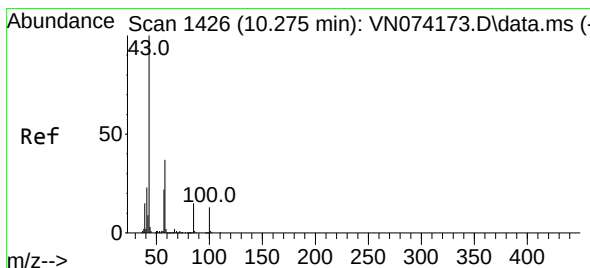
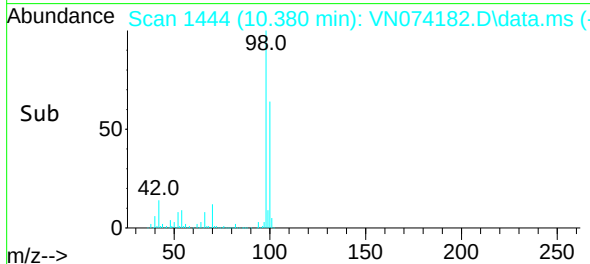
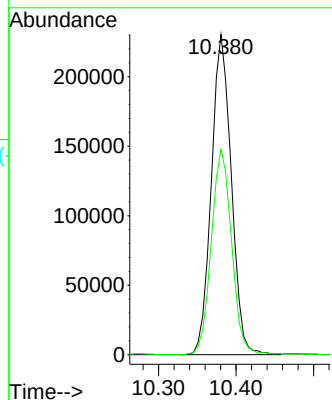
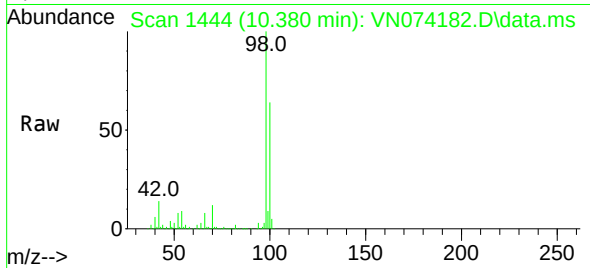




#50
Toluene-d8
Concen: 45.270 ug/l
RT: 10.380 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN074182.D
Acq: 30 Aug 2022 22:29

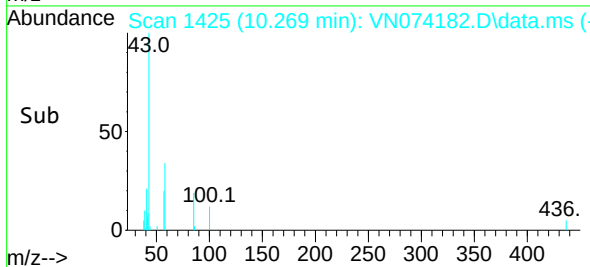
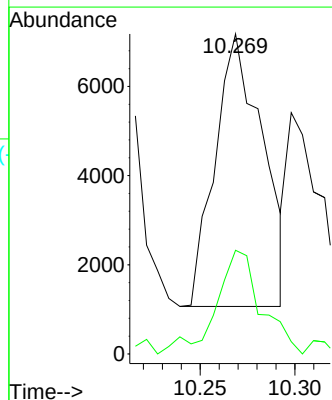
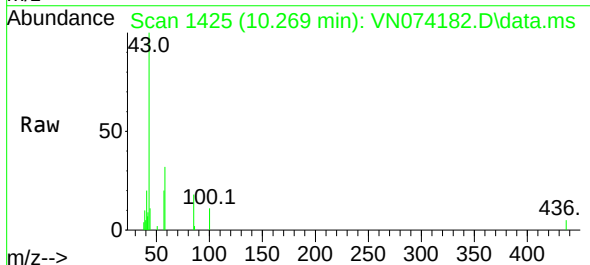
Instrument :
MSVOA_N
ClientSampleId :
PB147340ZHE#01

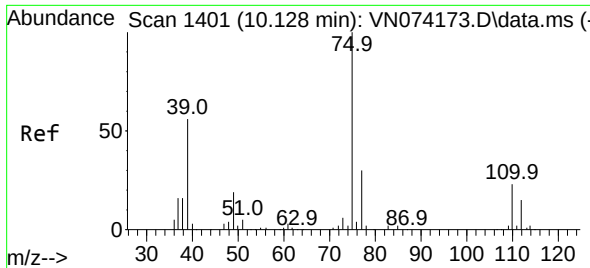
Tgt Ion: 98 Resp: 411383
Ion Ratio Lower Upper
98 100
100 65.4 52.6 78.8



#51
4-Methyl-2-Pentanone
Concen: 1.747 ug/l
RT: 10.269 min Scan# 1425
Delta R.T. -0.006 min
Lab File: VN074182.D
Acq: 30 Aug 2022 22:29

Tgt Ion: 43 Resp: 10675
Ion Ratio Lower Upper
43 100
58 36.0 34.1 51.1

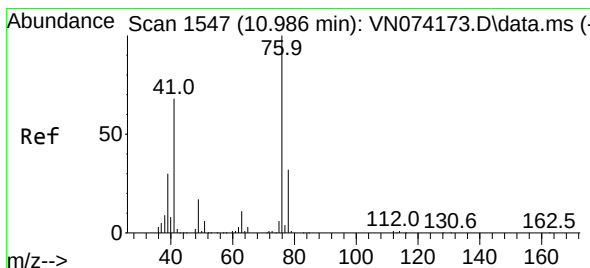
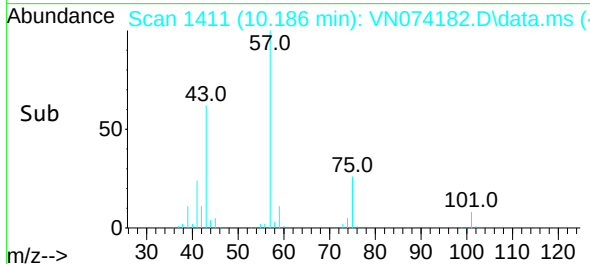
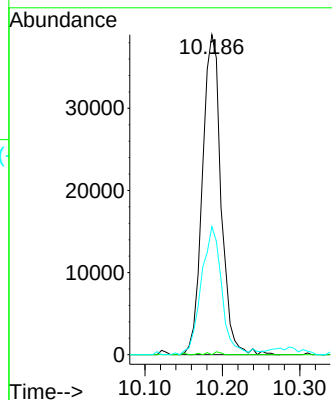
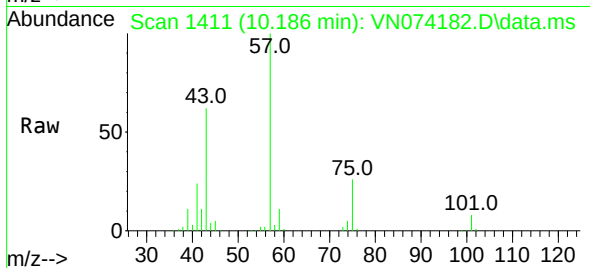




#54
 cis-1,3-Dichloropropene
 Concen: 14.791 ug/l
 RT: 10.186 min Scan# 1401
 Delta R.T. 0.059 min
 Lab File: VN074182.D
 Acq: 30 Aug 2022 22:29

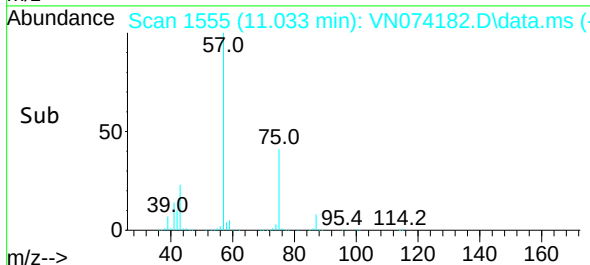
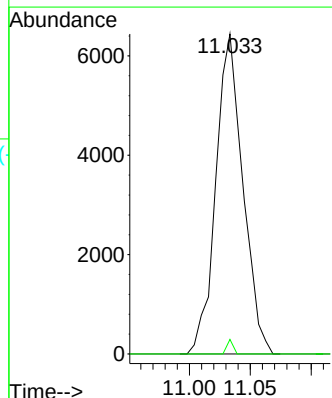
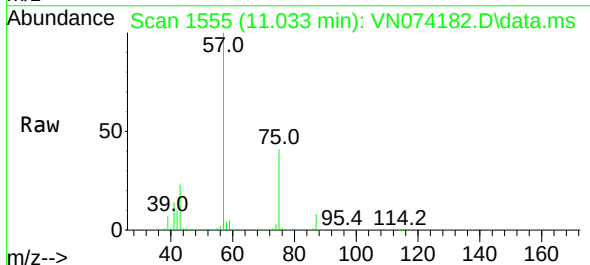
Instrument :
 MSVOA_N
 ClientSampleId :
 PB147340ZHE#01

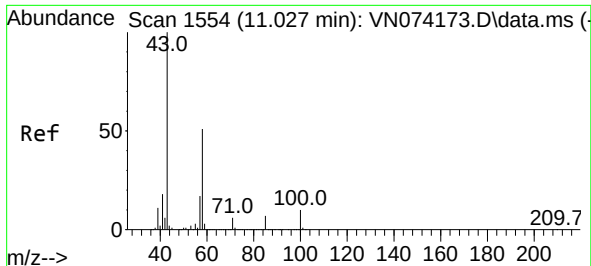
Tgt Ion: 75 Resp: 65225
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.2 37.8#
 39 40.0 35.7 53.5



#57
 1,3-Dichloropropane
 Concen: 1.912 ug/l
 RT: 11.033 min Scan# 1555
 Delta R.T. 0.047 min
 Lab File: VN074182.D
 Acq: 30 Aug 2022 22:29

Tgt Ion: 76 Resp: 9958
 Ion Ratio Lower Upper
 76 100
 78 1.0 26.2 39.2#

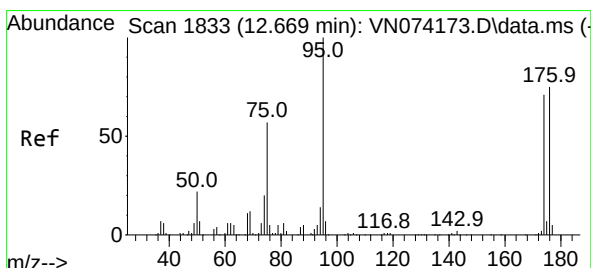
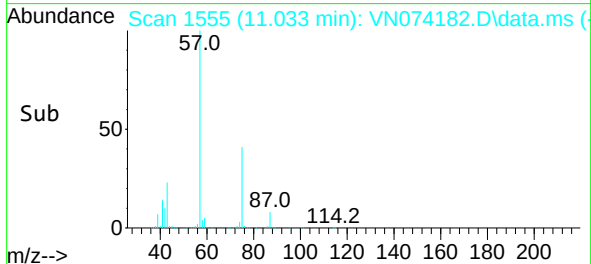
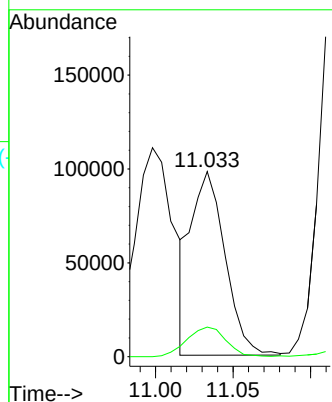
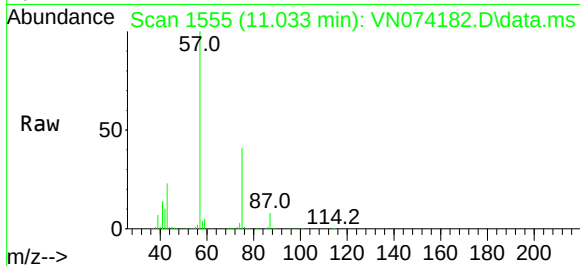




#59
2-Hexanone
Concen: 32.443 ug/l
RT: 11.033 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN074182.D
Acq: 30 Aug 2022 22:29

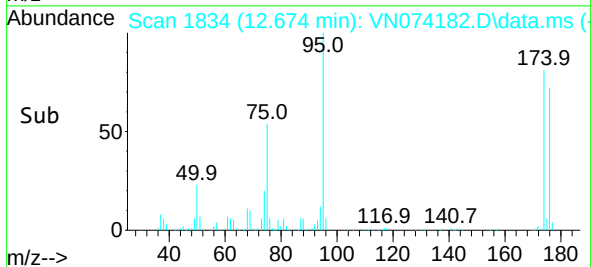
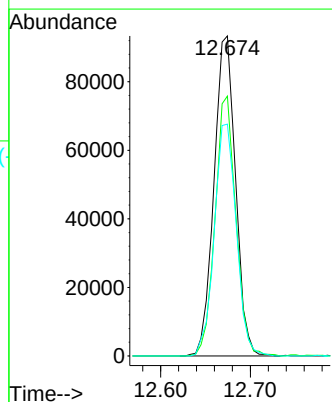
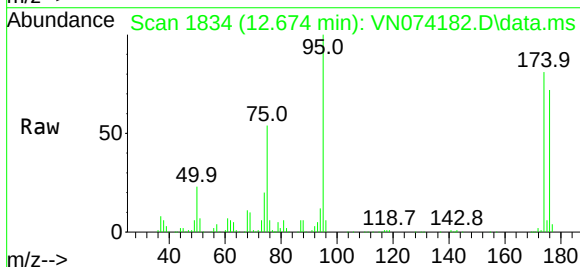
Instrument :
MSVOA_N
ClientSampleId :
PB147340ZHE#01

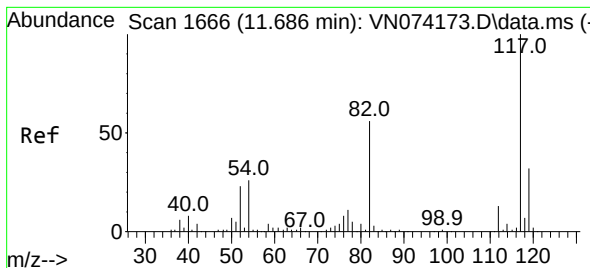
Tgt Ion: 43 Resp: 150404
Ion Ratio Lower Upper
43 100
58 18.4 29.7 89.1#



#62
4-Bromofluorobenzene
Concen: 56.322 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. 0.006 min
Lab File: VN074182.D
Acq: 30 Aug 2022 22:29

Tgt Ion: 95 Resp: 155646
Ion Ratio Lower Upper
95 100
174 78.4 0.0 167.6
176 74.1 0.0 163.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.686 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN074182.D

Acq: 30 Aug 2022 22:29

Instrument :

MSVOA_N

ClientSampleId :

PB147340ZHE#01

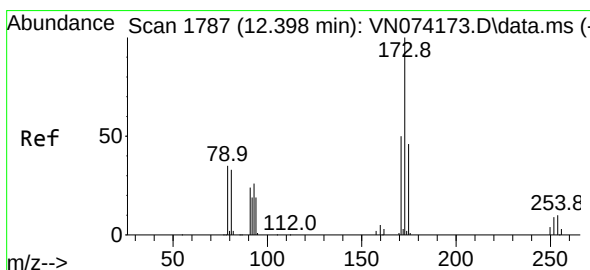
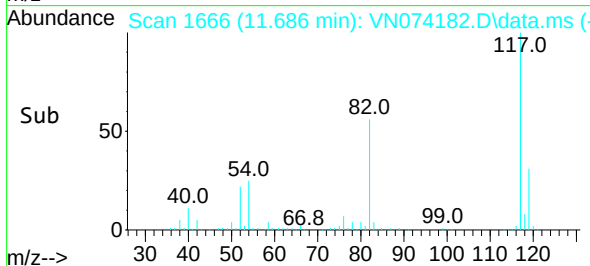
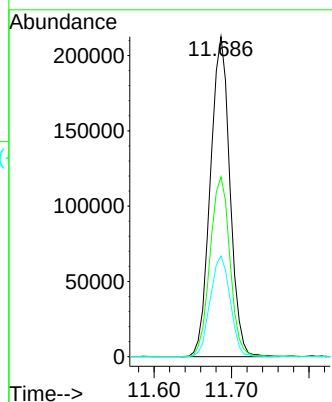
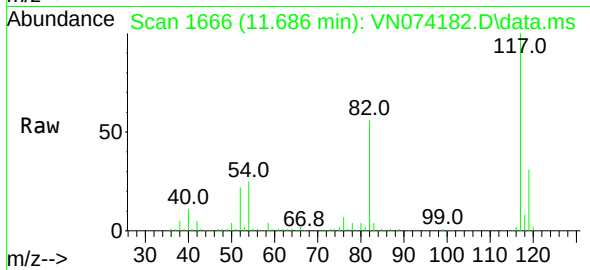
Tgt Ion:117 Resp: 372609

Ion Ratio Lower Upper

117 100

82 56.2 44.2 66.2

119 31.5 25.4 38.0



#71

Bromoform

Concen: 0.419 ug/l

RT: 12.663 min Scan# 1832

Delta R.T. 0.265 min

Lab File: VN074182.D

Acq: 30 Aug 2022 22:29

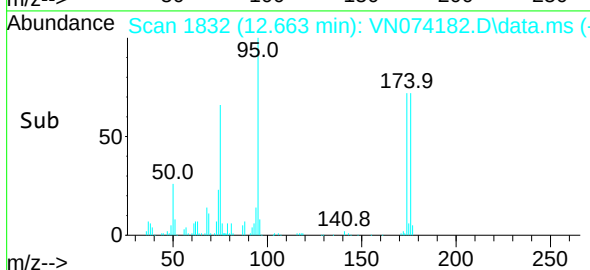
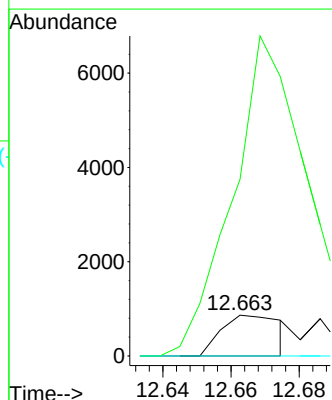
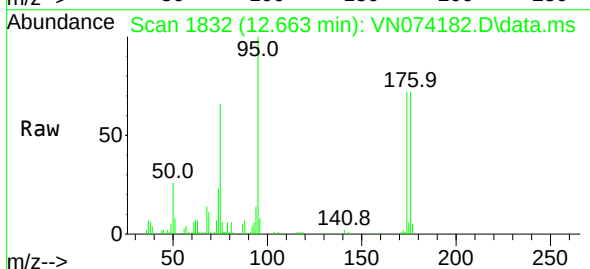
Tgt Ion:173 Resp: 1057

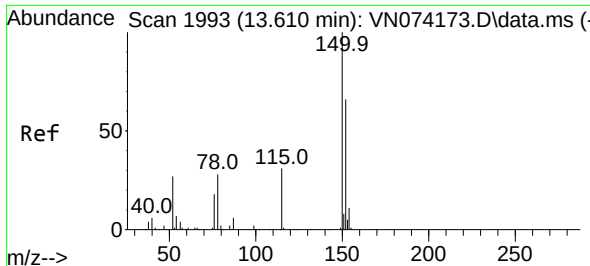
Ion Ratio Lower Upper

173 100

175 679.8 24.6 73.6#

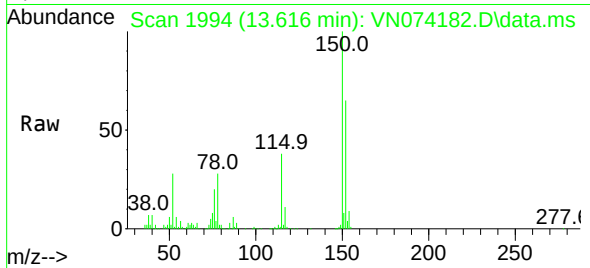
254 0.0 0.1 0.1#



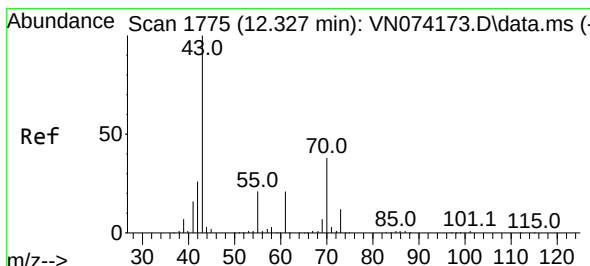
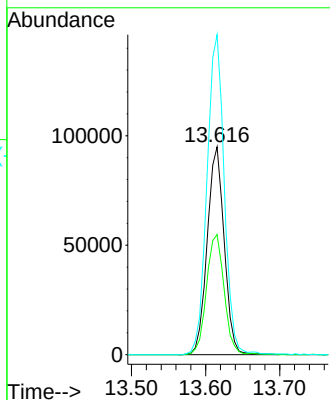
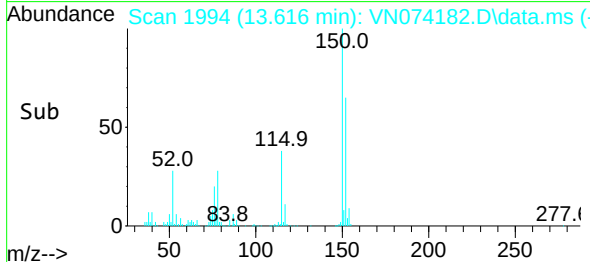


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.616 min Scan# 1993
Delta R.T. 0.006 min
Lab File: VN074182.D
Acq: 30 Aug 2022 22:29

Instrument :
MSVOA_N
ClientSampleId :
PB147340ZHE#01

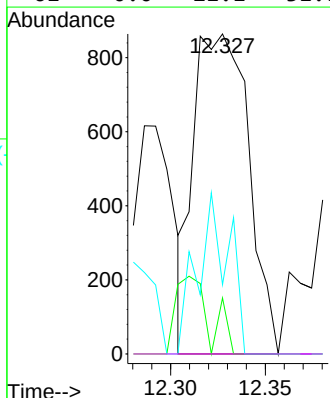
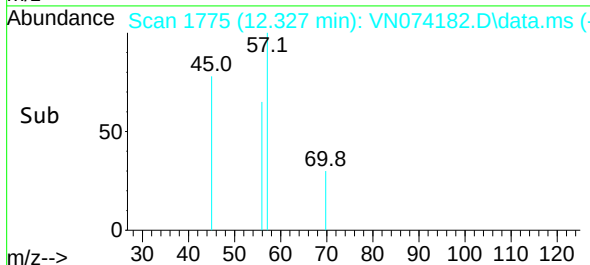
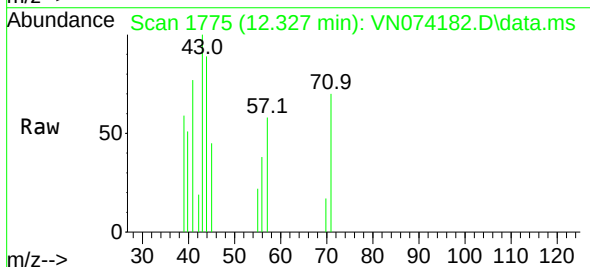


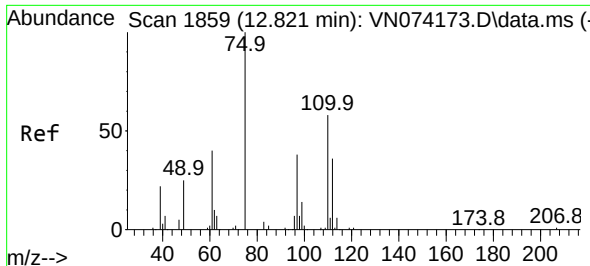
Tgt Ion:152 Resp: 151477
Ion Ratio Lower Upper
152 100
115 60.1 28.9 86.7
150 156.5 0.0 356.2



#74
N-ethyl acetate
Concen: 0.237 ug/l
RT: 12.327 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN074182.D
Acq: 30 Aug 2022 22:29

Tgt Ion: 43 Resp: 1738
Ion Ratio Lower Upper
43 100
70 15.0 39.0 58.4#
55 28.9 21.1 31.7
61 0.0 21.1 31.7#

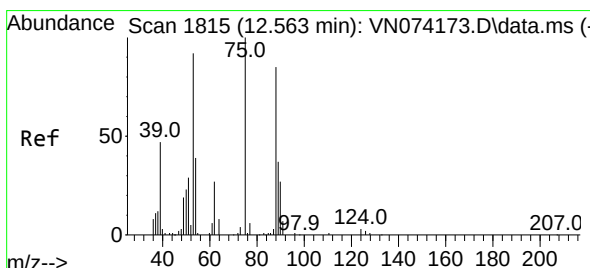
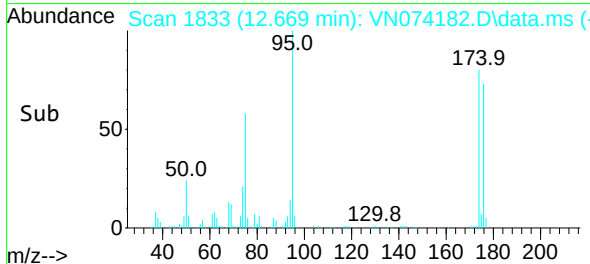
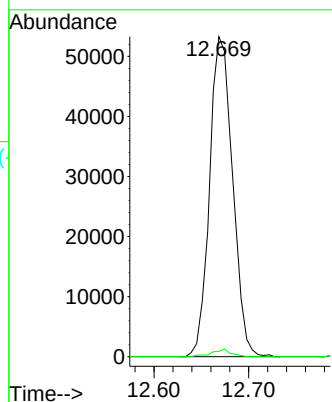
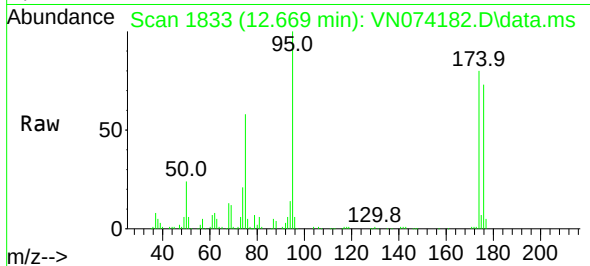




#76
1,2,3-Trichloropropane
Concen: 23.856 ug/l
RT: 12.669 min Scan# 1833
Delta R.T. -0.152 min
Lab File: VN074182.D
Acq: 30 Aug 2022 22:29

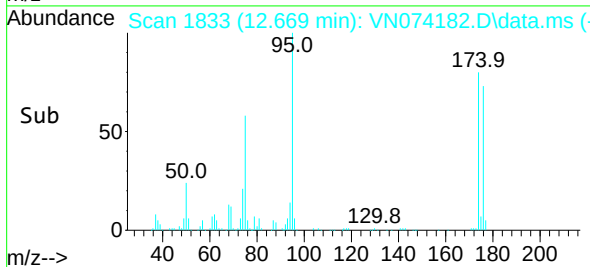
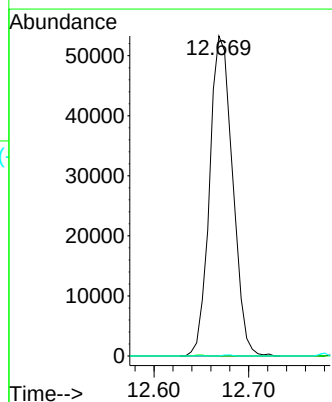
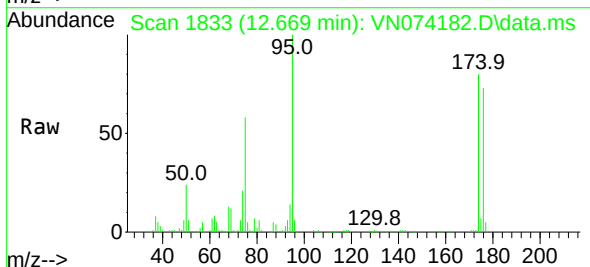
Instrument :
MSVOA_N
ClientSampleId :
PB147340ZHE#01

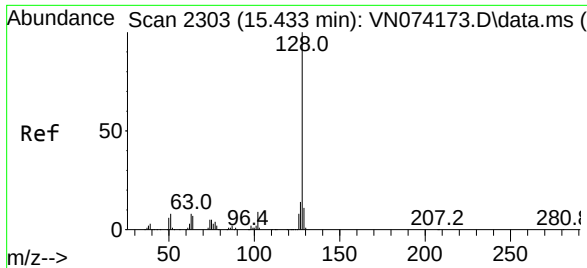
Tgt Ion: 75 Resp: 90150
Ion Ratio Lower Upper
75 100
77 1.9 98.5 295.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 61.774 ug/l
RT: 12.669 min Scan# 1833
Delta R.T. 0.106 min
Lab File: VN074182.D
Acq: 30 Aug 2022 22:29

Tgt Ion: 75 Resp: 90150
Ion Ratio Lower Upper
75 100
53 0.0 78.0 117.0#
89 0.1 37.2 55.8#





#95

Naphthalene

Concen: 1.340 ug/l

RT: 15.433 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN074182.D

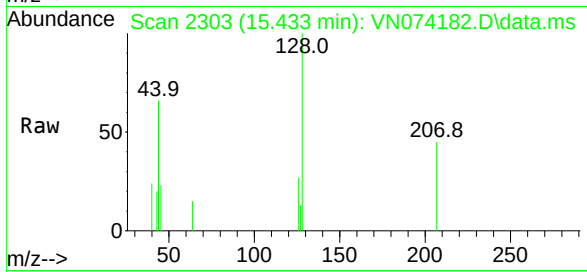
Acq: 30 Aug 2022 22:29

Instrument :

MSVOA_N

ClientSampleId :

PB147340ZHE#01



Tgt Ion:128 Resp: 2224

Ion Ratio Lower Upper

128 100

127 2.5 10.3 15.5#

129 8.0 8.6 13.0#

