

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090122\
 Data File : VN074272.D
 Acq On : 02 Sep 2022 04:08
 Operator : JC\MD
 Sample : N4354-05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 02 05:45:25 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)

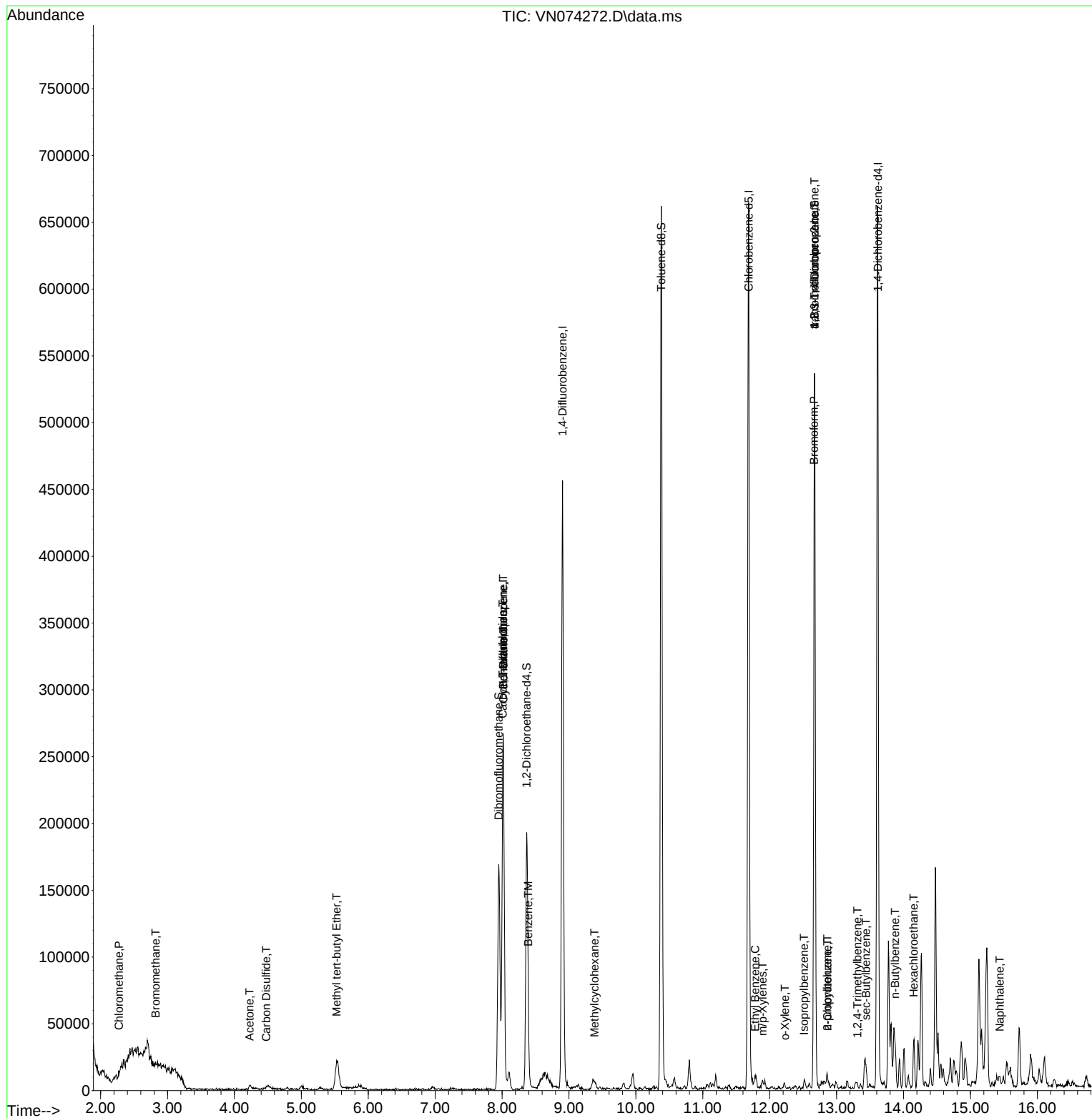
Internal Standards						
1) Pentafluorobenzene	8.016	168	196626	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	368813	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.686	117	355884	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.615	152	160286	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.369	65	145647	47.751	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	95.500%		
35) Dibromofluoromethane	7.951	113	120695	50.291	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	100.580%		
50) Toluene-d8	10.380	98	439018	46.451	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	92.900%		
62) 4-Bromofluorobenzene	12.668	95	163418	56.857	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	113.720%		
Target Compounds					Qvalue	
3) Chloromethane	2.275	50	1493	0.521	ug/l #	43
5) Bromomethane	2.822	94	708	0.455	ug/l #	2
6) Chloroethane	2.916	64	2049	Below Cal	#	52
11) Tert butyl alcohol	5.287	59	2256	Below Cal	#	72
16) Acetone	4.228	43	5453	2.675	ug/l #	84
17) Carbon Disulfide	4.475	76	1460	0.223	ug/l #	75
18) Methyl Acetate	4.787	43	2398	Below Cal	#	62
19) Methyl tert-butyl Ether	5.528	73	31122	3.650	ug/l #	89
20) Methylene Chloride	5.004	84	908	Below Cal	#	49
31) Cyclohexane	8.022	56	6651	1.320	ug/l #	46
36) 1,1-Dichloropropene	8.016	75	18807	4.830	ug/l #	45
38) Carbon Tetrachloride	8.010	117	19184	5.427	ug/l #	17
39) Methylcyclohexane	9.380	83	1732	0.379	ug/l #	63
40) Benzene	8.392	78	4577	0.374	ug/l #	81
67) Ethyl Benzene	11.780	91	3140	0.218	ug/l #	86
68) m/p-Xylenes	11.892	106	2203	0.413	ug/l	96
69) o-Xylene	12.227	106	1126	0.212	ug/l	85
71) Bromoform	12.663	173	1890	0.784	ug/l #	1
73) Isopropylbenzene	12.515	105	3792	0.276	ug/l	99
76) 1,2,3-Trichloropropane	12.668	75	96841	24.251	ug/l #	1
78) n-propylbenzene	12.863	91	9223	0.589	ug/l	98
79) 2-Chlorotoluene	12.863	91	9223	0.962	ug/l #	40
81) trans-1,4-Dichloro-2-b...	12.668	75	96841	62.712	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.310	105	2677	0.248	ug/l	73
85) sec-Butylbenzene	13.439	105	10220	0.763	ug/l #	54
89) n-Butylbenzene	13.874	91	18121	1.996	ug/l #	65
90) Hexachloroethane	14.151	117	2056	0.957	ug/l #	9
95) Naphthalene	15.439	128	8862	1.863	ug/l #	95

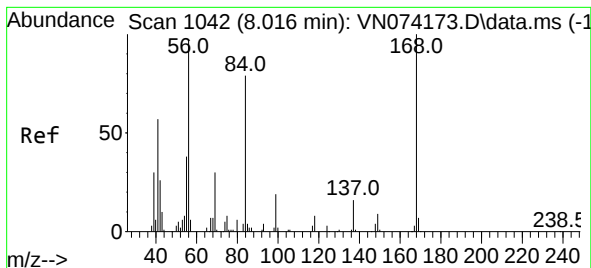
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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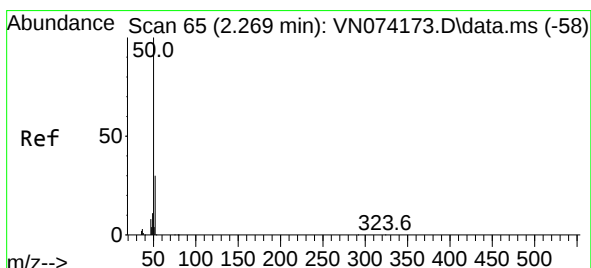
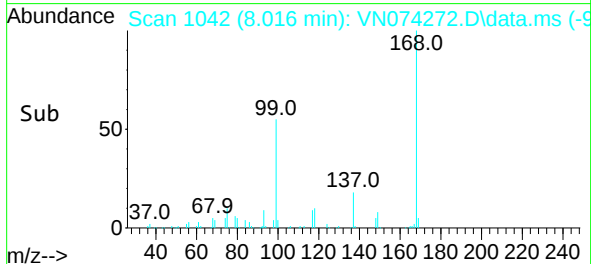
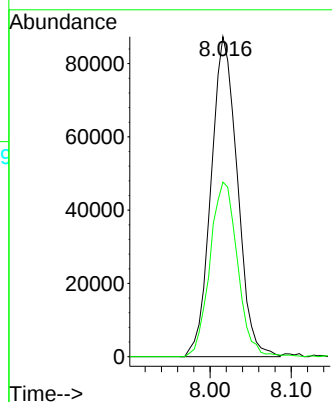
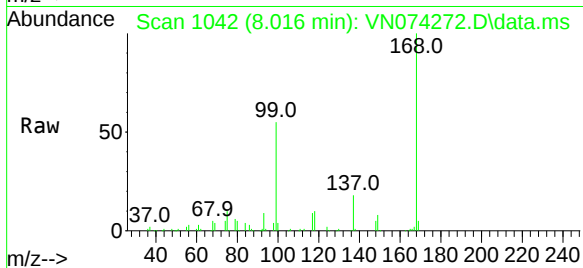




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.000 min
Lab File: VN074272.D
Acq: 02 Sep 2022 04:08

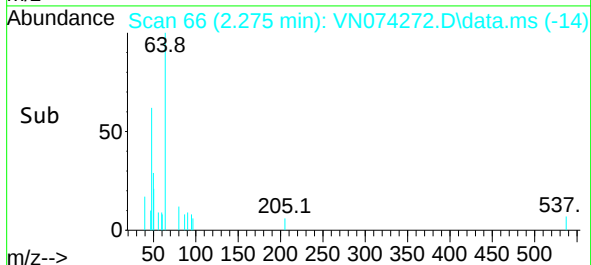
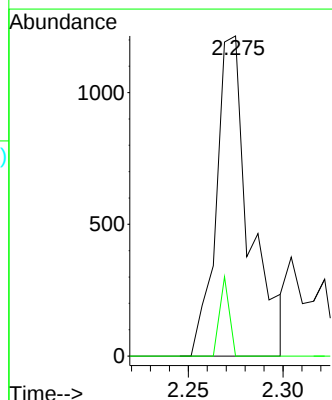
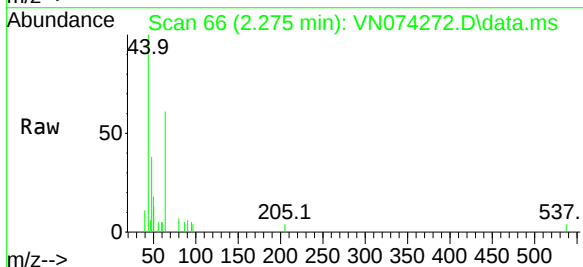
Instrument :
MSVOA_N
ClientSampleId :

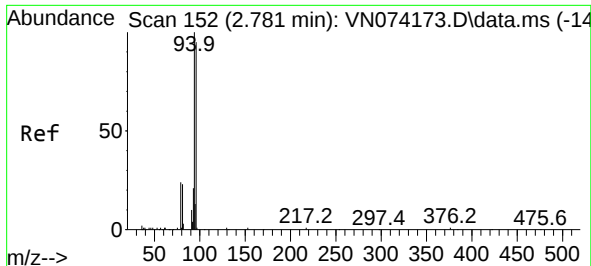
Tgt Ion:168 Resp: 196626
Ion Ratio Lower Upper
168 100
99 54.6 42.3 63.5



#3
Chloromethane
Concen: 0.521 ug/l
RT: 2.275 min Scan# 66
Delta R.T. 0.006 min
Lab File: VN074272.D
Acq: 02 Sep 2022 04:08

Tgt Ion: 50 Resp: 1493
Ion Ratio Lower Upper
50 100
52 0.0 25.7 38.5#

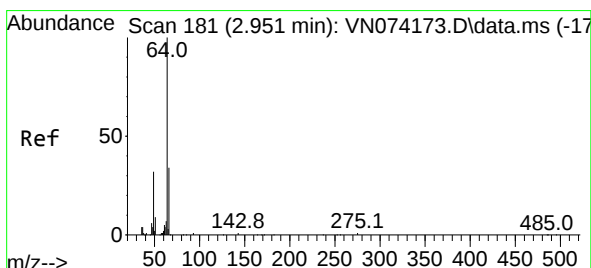
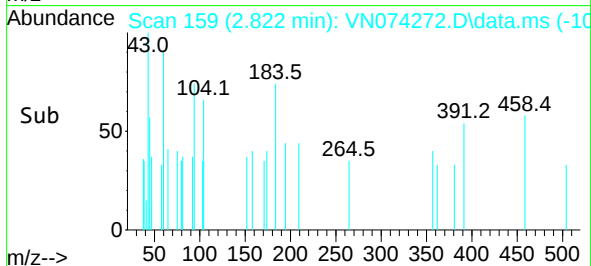
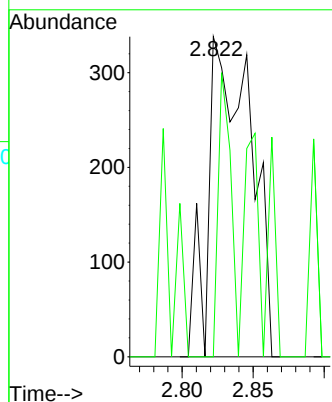
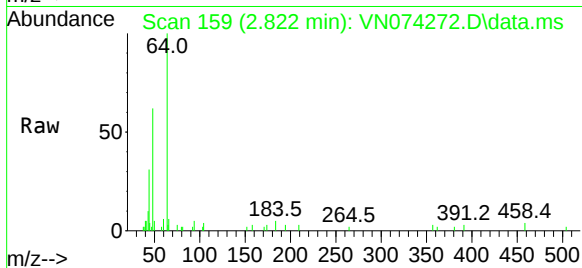




#5
Bromomethane
Concen: 0.455 ug/l
RT: 2.822 min Scan# 11
Delta R.T. 0.041 min
Lab File: VN074272.D
Acq: 02 Sep 2022 04:08

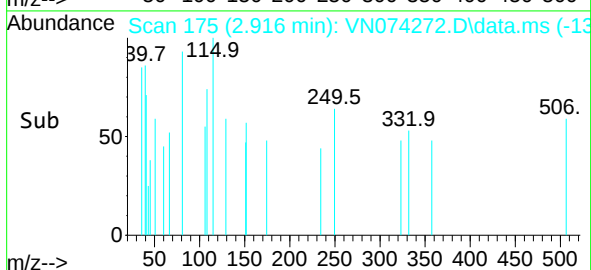
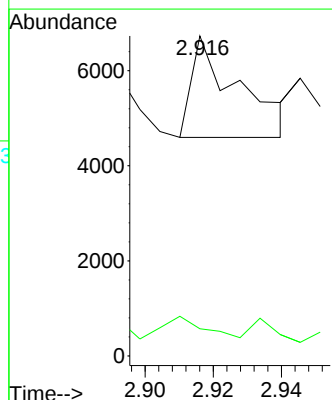
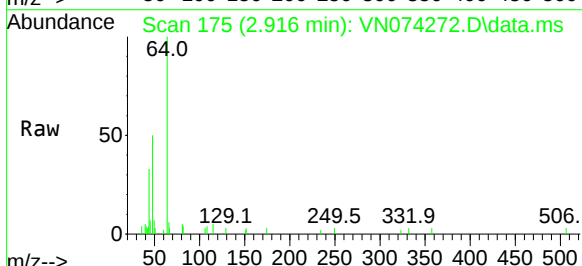
Instrument :
MSVOA_N
ClientSampleId :

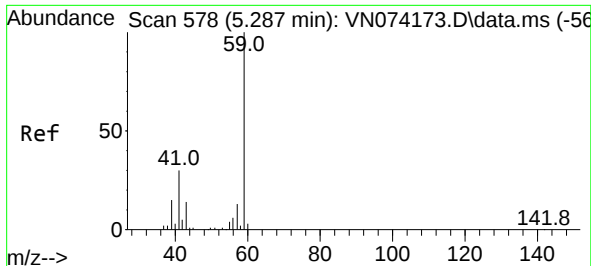
Tgt Ion: 94 Resp: 708
Ion Ratio Lower Upper
94 100
96 0.0 76.0 114.0#



#6
Chloroethane
Concen: Below Cal
RT: 2.916 min Scan# 175
Delta R.T. -0.035 min
Lab File: VN074272.D
Acq: 02 Sep 2022 04:08

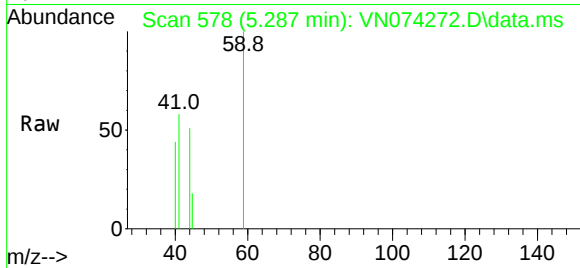
Tgt Ion: 64 Resp: 2049
Ion Ratio Lower Upper
64 100
66 5.7 26.2 39.4#



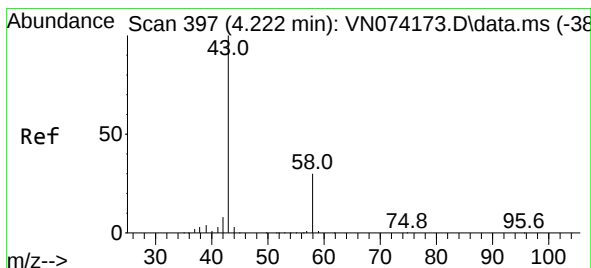
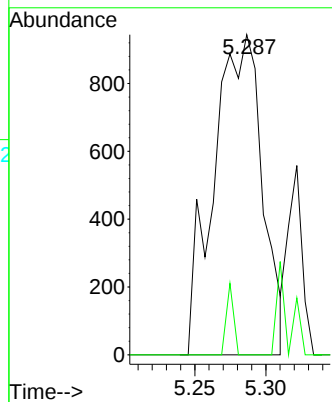
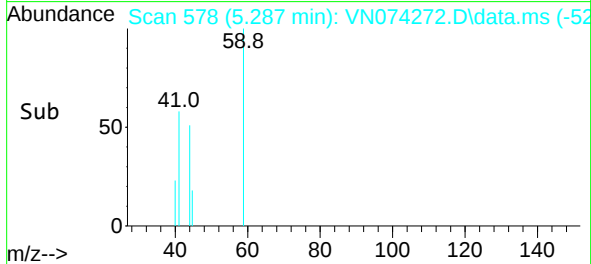


#11
Tert butyl alcohol
Concen: Below Cal
RT: 5.287 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN074272.D
Acq: 02 Sep 2022 04:08

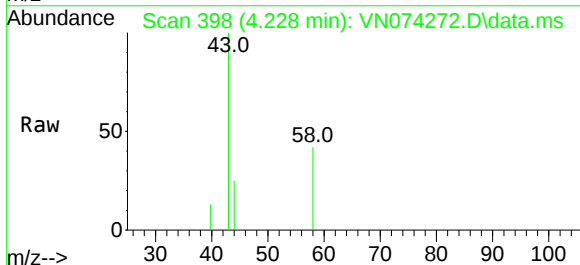
Instrument :
MSVOA_N
ClientSampleId :



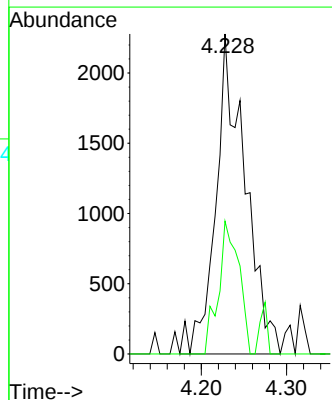
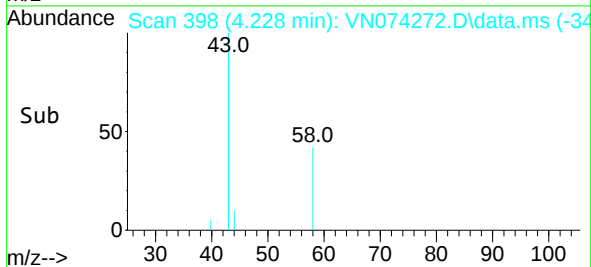
Tgt Ion: 59 Resp: 2256
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

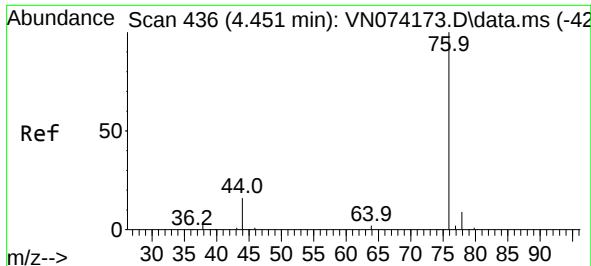


#16
Acetone
Concen: 2.675 ug/l
RT: 4.228 min Scan# 398
Delta R.T. 0.006 min
Lab File: VN074272.D
Acq: 02 Sep 2022 04:08



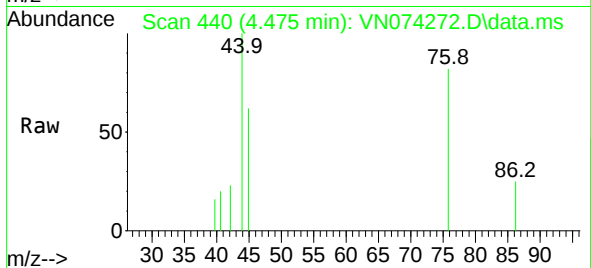
Tgt Ion: 43 Resp: 5453
Ion Ratio Lower Upper
43 100
58 41.5 26.0 39.0#



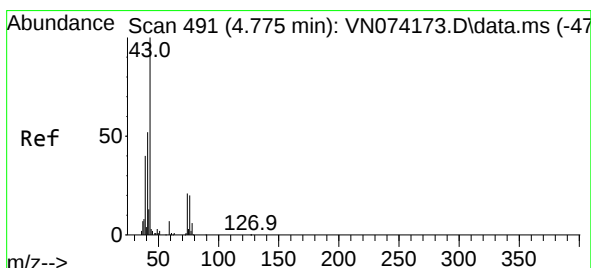
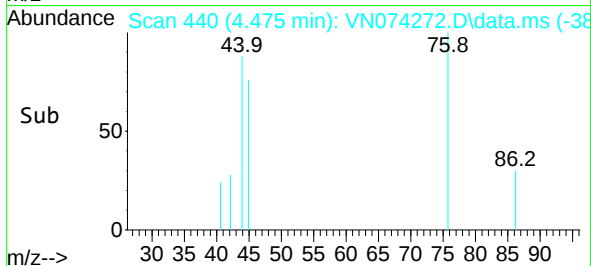
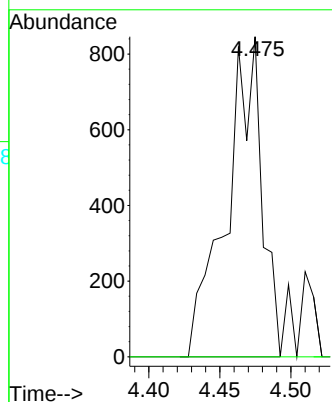


#17
Carbon Disulfide
Concen: 0.223 ug/l
RT: 4.475 min Scan# 440
Delta R.T. 0.023 min
Lab File: VN074272.D
Acq: 02 Sep 2022 04:08

Instrument :
MSVOA_N
ClientSampleId :

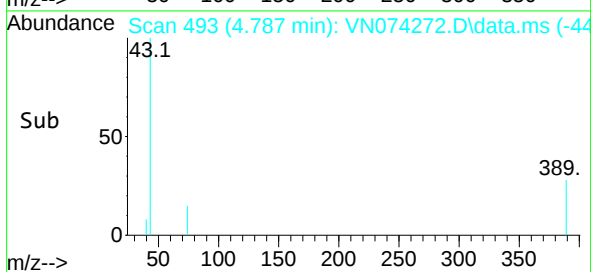
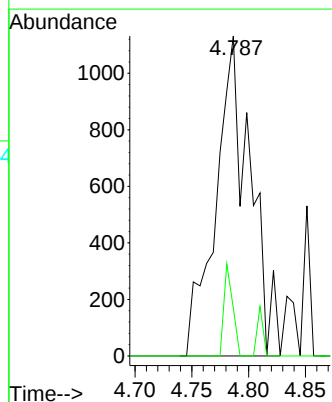
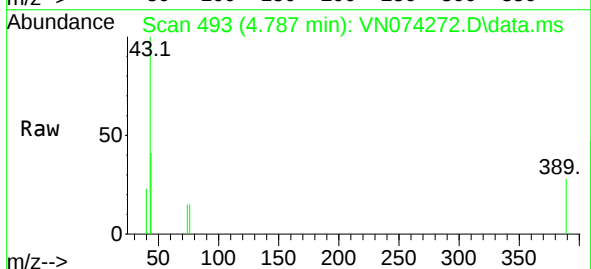


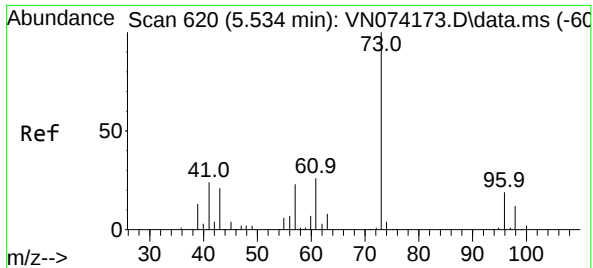
Tgt Ion: 76 Resp: 1460
Ion Ratio Lower Upper
76 100
78 0.0 7.2 10.8#



#18
Methyl Acetate
Concen: Below Cal
RT: 4.787 min Scan# 493
Delta R.T. 0.012 min
Lab File: VN074272.D
Acq: 02 Sep 2022 04:08

Tgt Ion: 43 Resp: 2398
Ion Ratio Lower Upper
43 100
74 7.3 21.6 32.4#

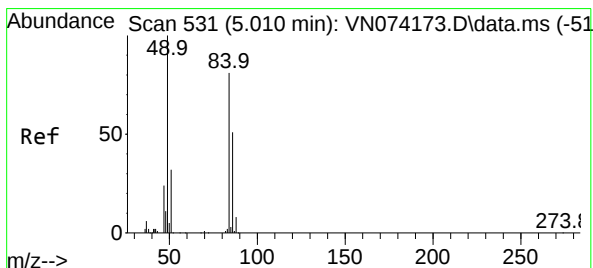
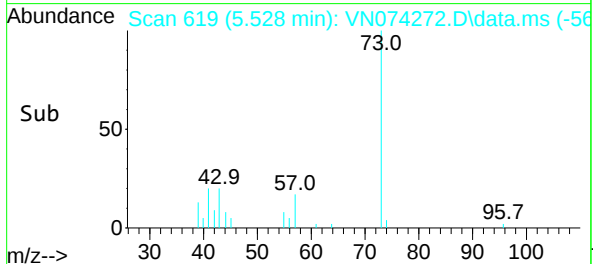
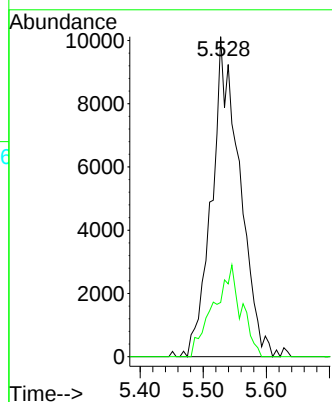
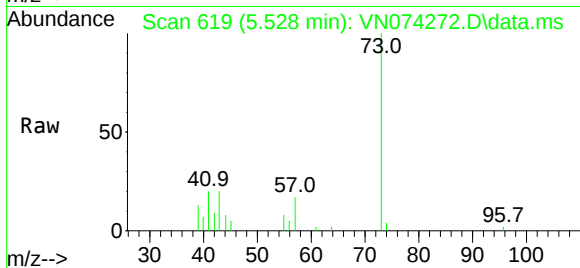




#19
Methyl tert-butyl Ether
Concen: 3.650 ug/l
RT: 5.528 min Scan# 61
Delta R.T. -0.006 min
Lab File: VN074272.D
Acq: 02 Sep 2022 04:08

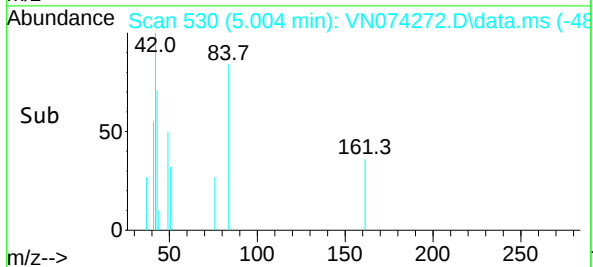
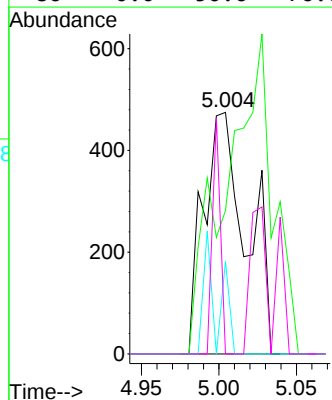
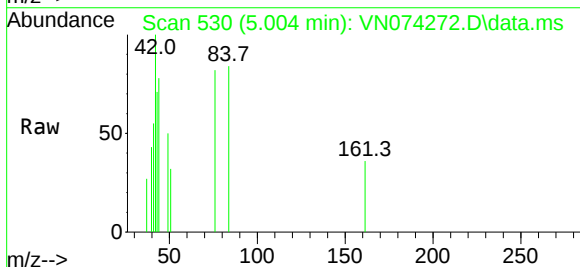
Instrument :
MSVOA_N
ClientSampleId :

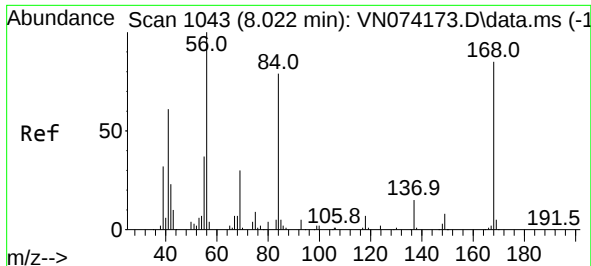
Tgt Ion: 73 Resp: 31122
Ion Ratio Lower Upper
73 100
57 16.9 17.6 26.4#



#20
Methylene Chloride
Concen: Below Cal
RT: 5.004 min Scan# 530
Delta R.T. -0.006 min
Lab File: VN074272.D
Acq: 02 Sep 2022 04:08

Tgt Ion: 84 Resp: 908
Ion Ratio Lower Upper
84 100
49 59.4 88.3 132.5#
51 38.3 28.2 42.2
86 0.0 50.6 76.0#





#31

Cyclohexane

Concen: 1.320 ug/l

RT: 8.022 min Scan# 1102

Delta R.T. -0.000 min

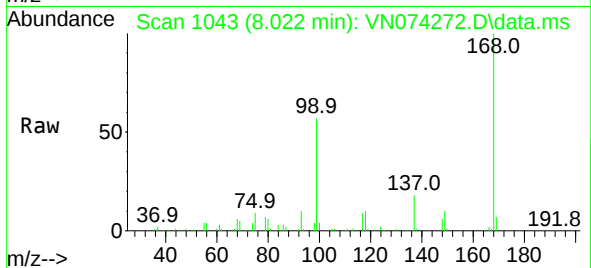
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Acq: 02 Sep 2022 04:08

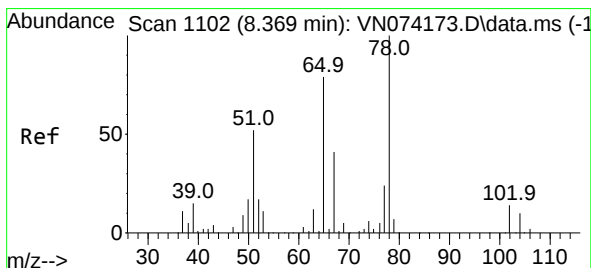
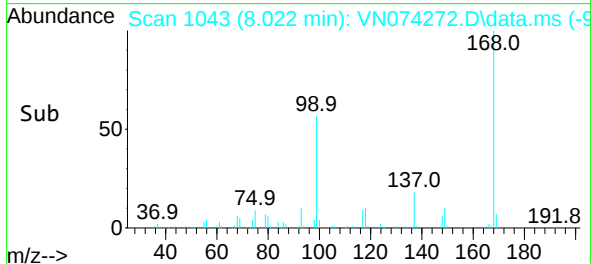
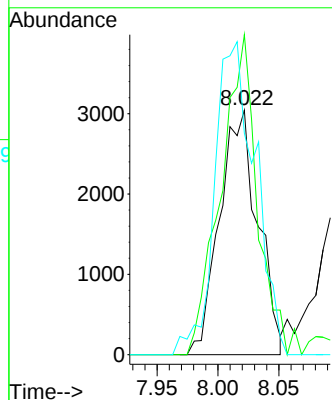
Instrument :

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ClientSampleId :



Tgt Ion: 56	Resp: 6651
Ion Ratio	Lower Upper
56	100
69	130.9 27.8 41.8#
84	83.2 76.9 115.3



#33

1,2-Dichloroethane-d4

Concen: 47.751 ug/l

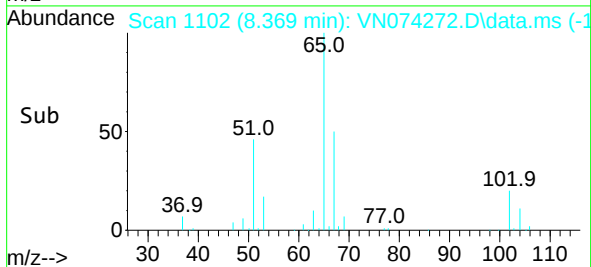
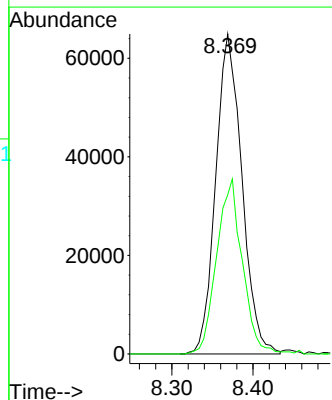
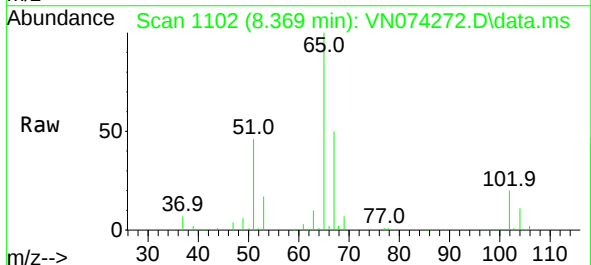
RT: 8.369 min Scan# 1102

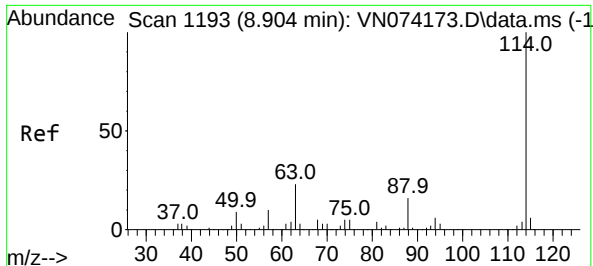
Delta R.T. -0.000 min

Lab File: VN074272.D

Acq: 02 Sep 2022 04:08

Tgt Ion: 65	Resp: 145647
Ion Ratio	Lower Upper
65	100
67	53.8 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: VN074272.D

Acq: 02 Sep 2022 04:08

Instrument :

MSVOA_N

ClientSampleId :

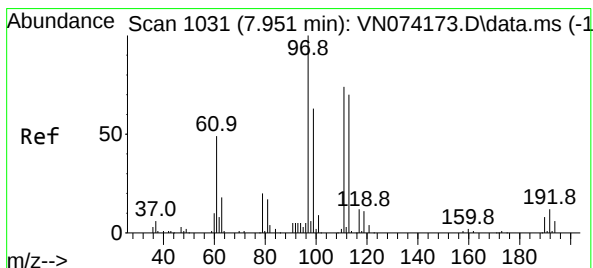
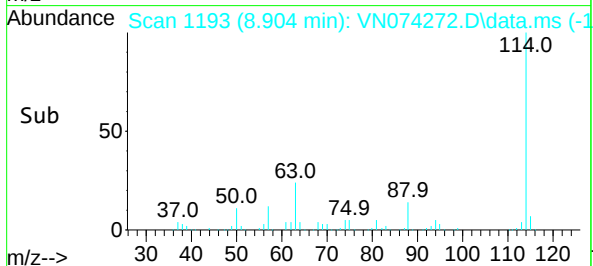
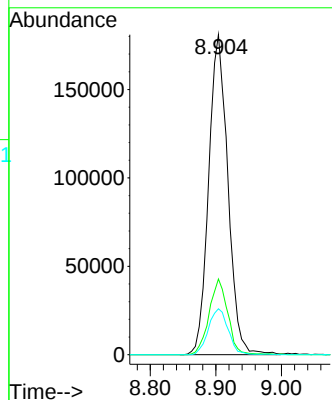
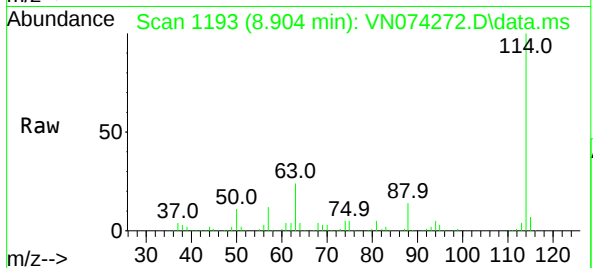
Tgt Ion:114 Resp: 368813

Ion Ratio Lower Upper

114 100

63 23.6 0.0 40.0

88 14.4 0.0 32.6



#35

Dibromofluoromethane

Concen: 50.291 ug/l

RT: 7.951 min Scan# 1031

Delta R.T. -0.000 min

Lab File: VN074272.D

Acq: 02 Sep 2022 04:08

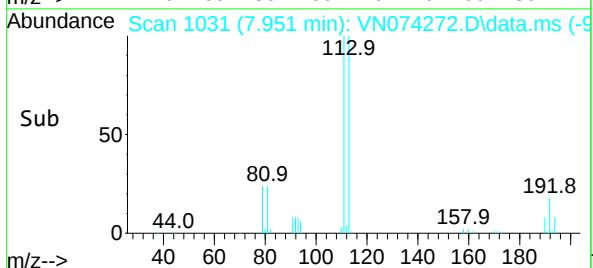
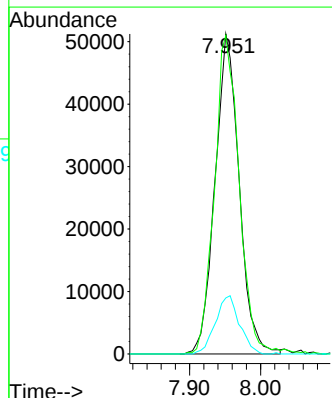
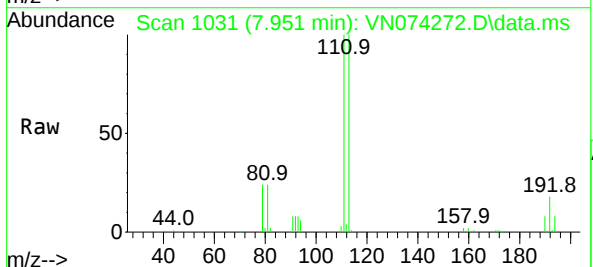
Tgt Ion:113 Resp: 120695

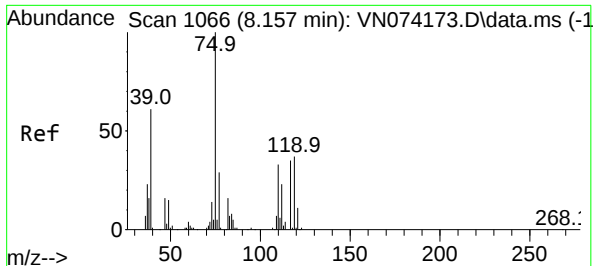
Ion Ratio Lower Upper

113 100

111 102.5 81.4 122.0

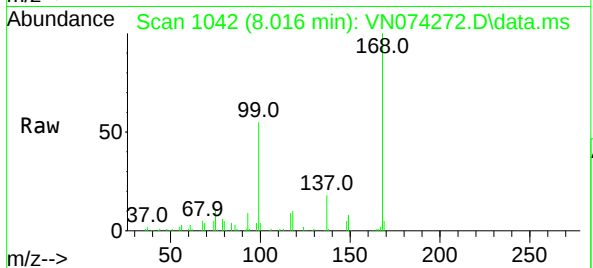
192 18.1 17.0 25.6



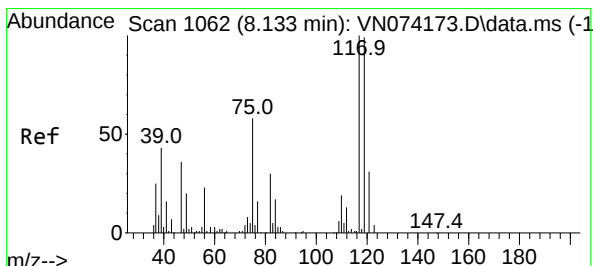
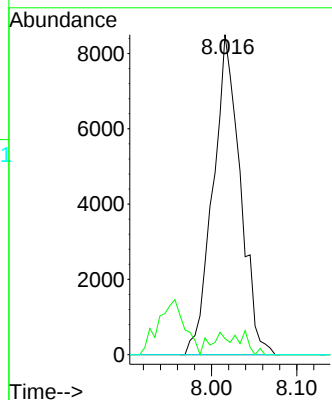
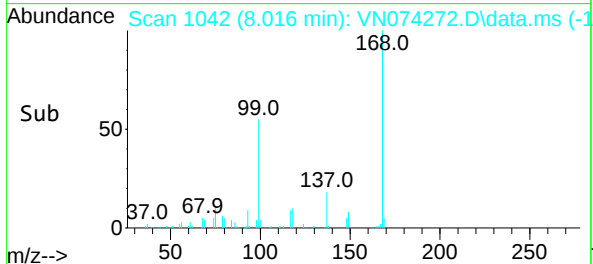


#36
1,1-Dichloropropene
Concen: 4.830 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.141 min
Lab File: VN074272.D
Acq: 02 Sep 2022 04:08

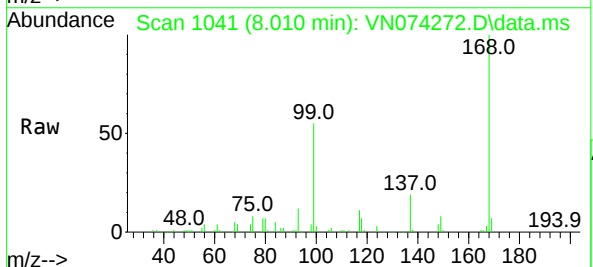
Instrument :
MSVOA_N
ClientSampleId :



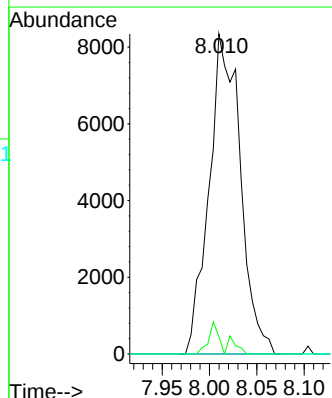
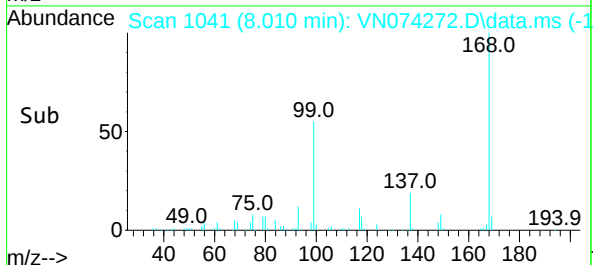
Tgt Ion: 75 Resp: 18807
Ion Ratio Lower Upper
75 100
110 4.5 18.3 54.8#
77 0.0 25.1 37.7#

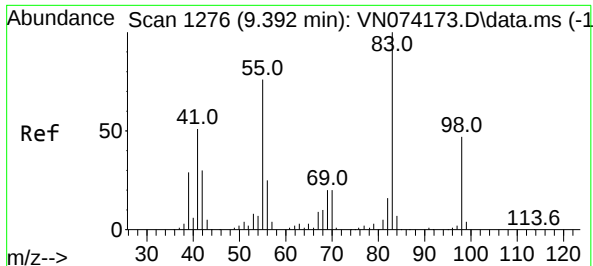


#38
Carbon Tetrachloride
Concen: 5.427 ug/l
RT: 8.010 min Scan# 1041
Delta R.T. -0.123 min
Lab File: VN074272.D
Acq: 02 Sep 2022 04:08



Tgt Ion: 117 Resp: 19184
Ion Ratio Lower Upper
117 100
119 5.4 75.8 113.8#
121 0.0 24.6 37.0#





#39

Methylcyclohexane

Concen: 0.379 ug/l

RT: 9.380 min Scan# 1127

Delta R.T. -0.012 min

Lab File: VN074272.D

Acq: 02 Sep 2022 04:08

Instrument :

MSVOA_N

ClientSampleId :

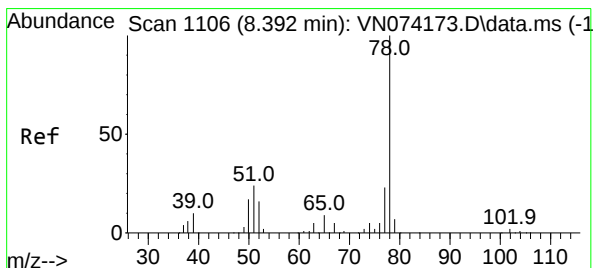
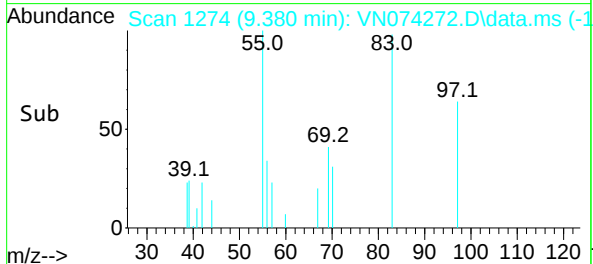
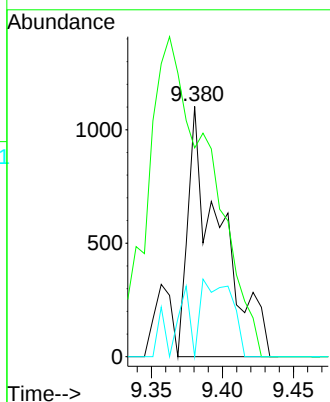
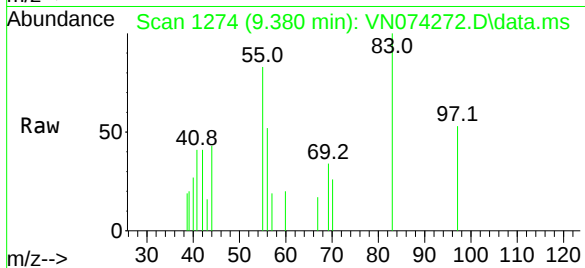
Tgt Ion: 83 Resp: 1732

Ion Ratio Lower Upper

83 100

55 83.4 57.8 86.8

98 0.0 39.4 59.2#



#40

Benzene

Concen: 0.374 ug/l

RT: 8.392 min Scan# 1106

Delta R.T. -0.000 min

Lab File: VN074272.D

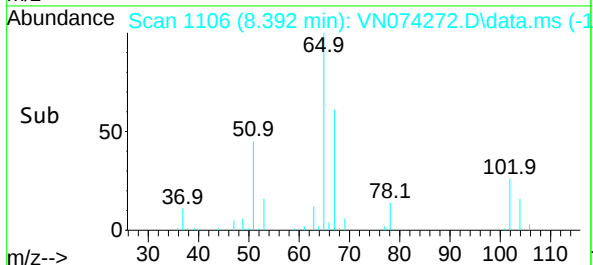
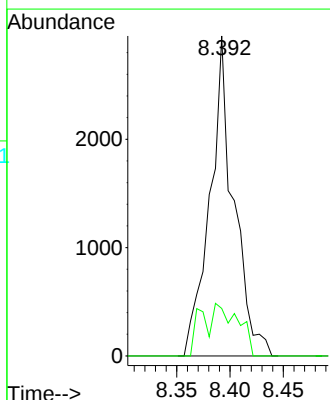
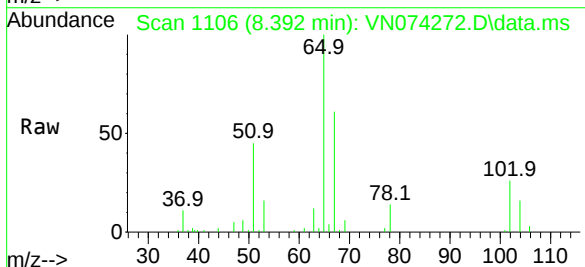
Acq: 02 Sep 2022 04:08

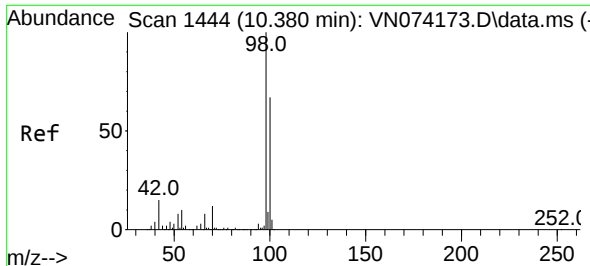
Tgt Ion: 78 Resp: 4577

Ion Ratio Lower Upper

78 100

77 14.8 19.4 29.0#

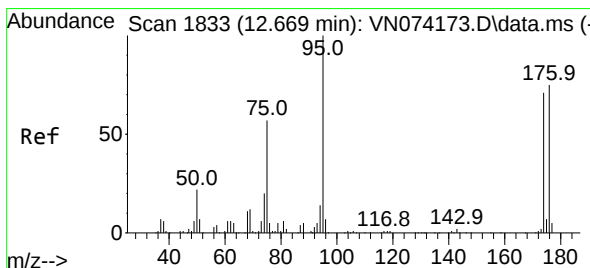
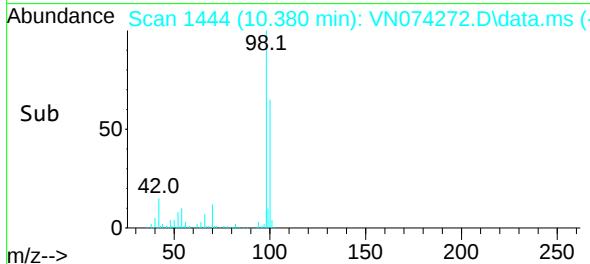
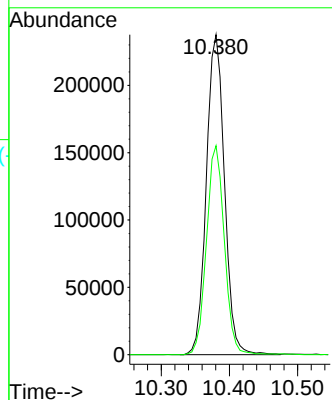
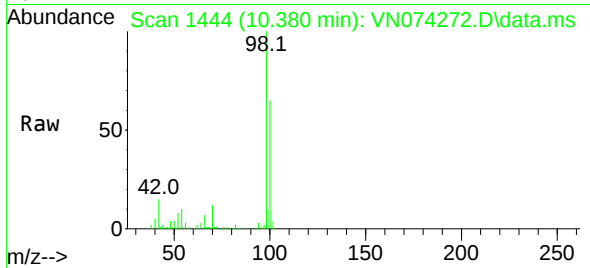




#50
Toluene-d8
Concen: 46.451 ug/l
RT: 10.380 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN074272.D
Acq: 02 Sep 2022 04:08

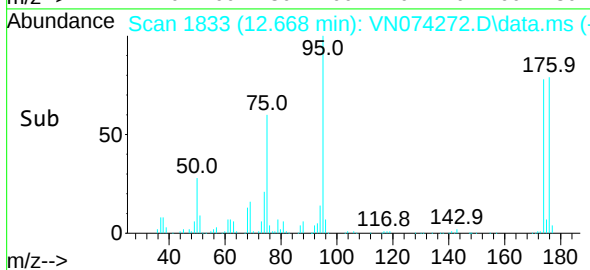
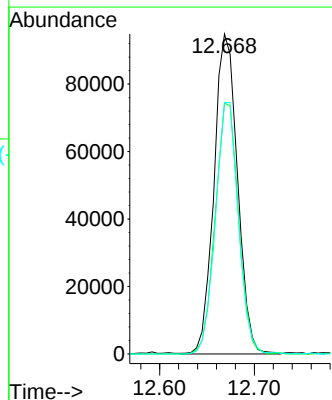
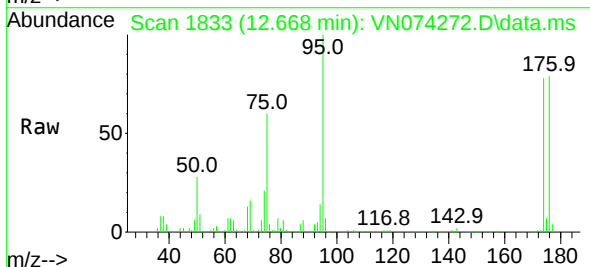
Instrument :
MSVOA_N
ClientSampleId :

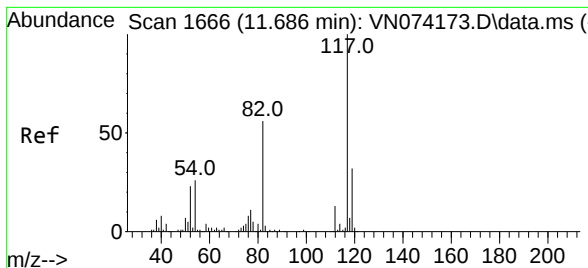
Tgt Ion: 98 Resp: 439018
Ion Ratio Lower Upper
98 100
100 64.4 52.6 78.8



#62
4-Bromofluorobenzene
Concen: 56.857 ug/l
RT: 12.668 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN074272.D
Acq: 02 Sep 2022 04:08

Tgt Ion: 95 Resp: 163418
Ion Ratio Lower Upper
95 100
174 77.6 0.0 167.6
176 76.9 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: VN074272.D

Acq: 02 Sep 2022 04:08

Instrument :

MSVOA_N

ClientSampleId :

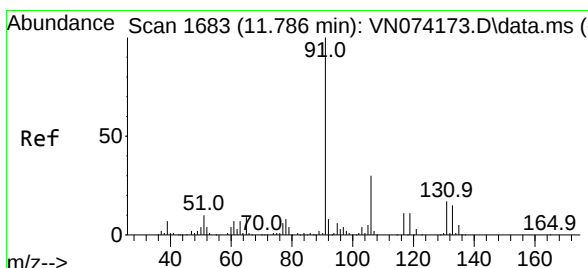
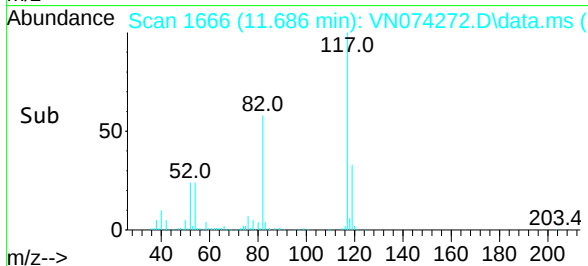
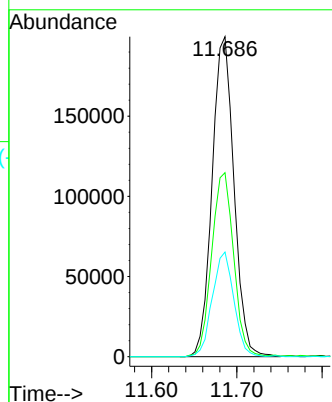
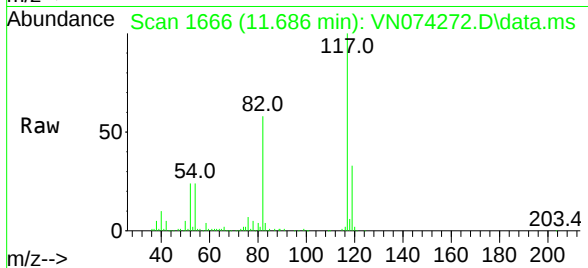
Tgt Ion:117 Resp: 355884

Ion Ratio Lower Upper

117 100

82 57.5 44.2 66.2

119 32.7 25.4 38.0



#67

Ethyl Benzene

Concen: 0.218 ug/l

RT: 11.780 min Scan# 1682

Delta R.T. -0.006 min

Lab File: VN074272.D

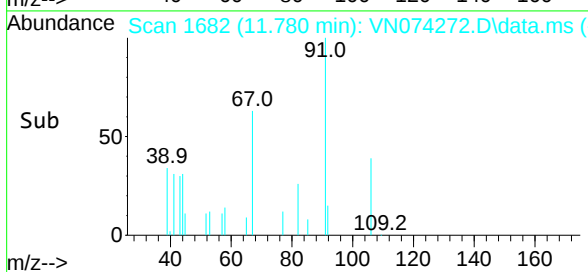
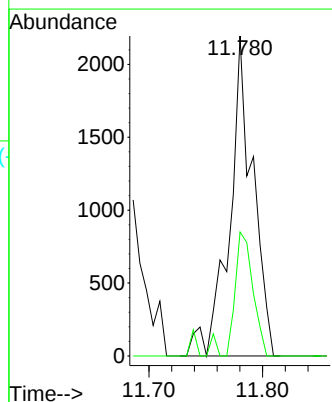
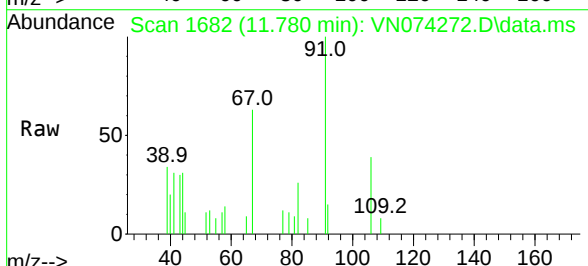
Acq: 02 Sep 2022 04:08

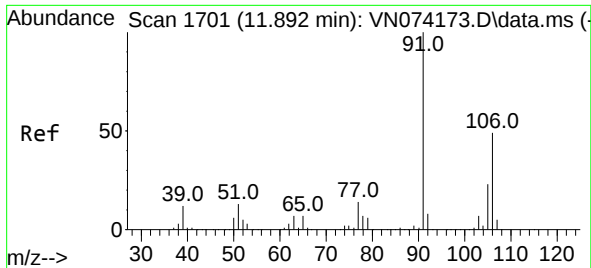
Tgt Ion: 91 Resp: 3140

Ion Ratio Lower Upper

91 100

106 38.8 24.9 37.3#

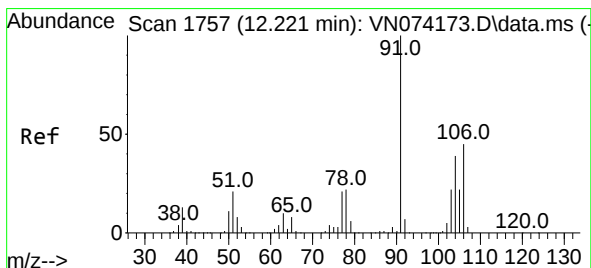
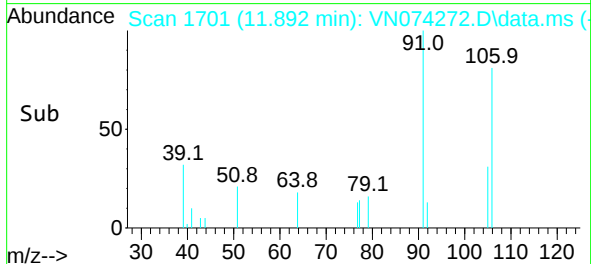
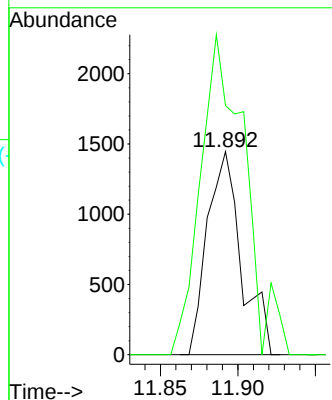
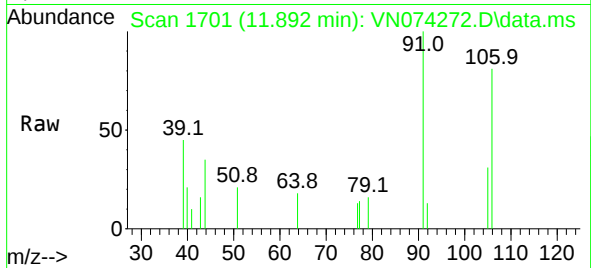




#68
m/p-Xylenes
Concen: 0.413 ug/l
RT: 11.892 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN074272.D
Acq: 02 Sep 2022 04:08

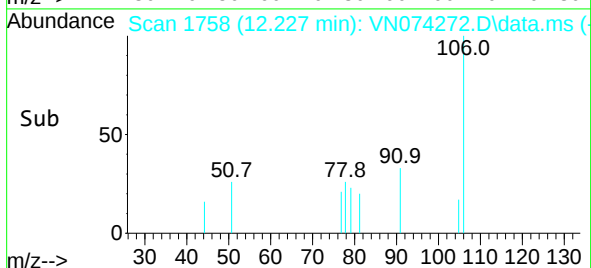
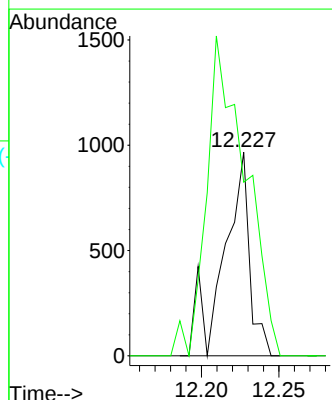
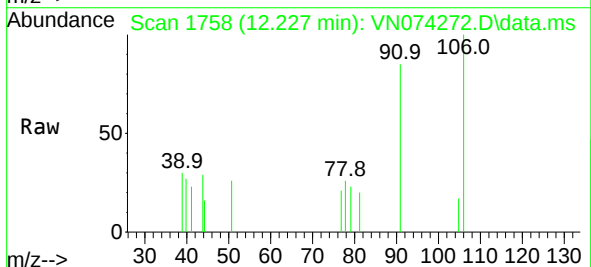
Instrument :
MSVOA_N
ClientSampleId :

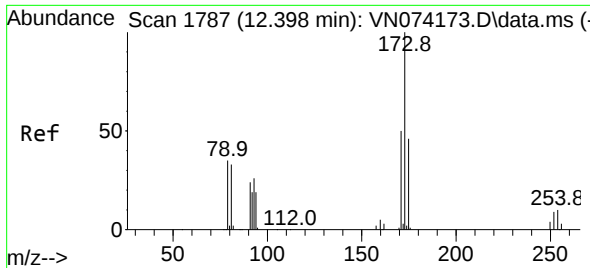
Tgt Ion:106 Resp: 2203
Ion Ratio Lower Upper
106 100
91 204.1 158.9 238.3



#69
o-Xylene
Concen: 0.212 ug/l
RT: 12.227 min Scan# 1758
Delta R.T. 0.006 min
Lab File: VN074272.D
Acq: 02 Sep 2022 04:08

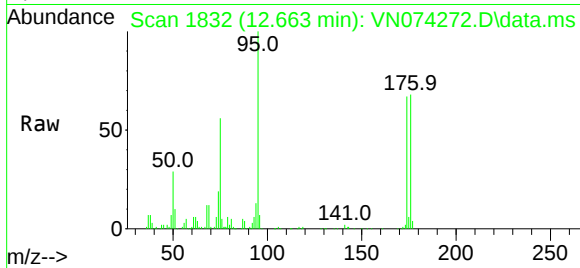
Tgt Ion:106 Resp: 1126
Ion Ratio Lower Upper
106 100
91 235.6 106.0 318.0



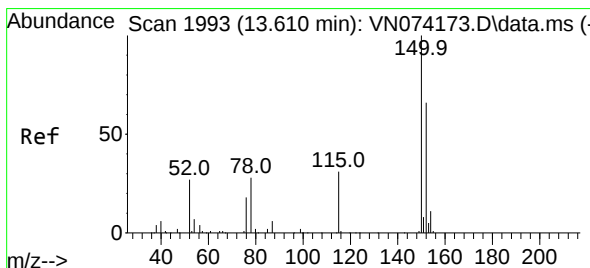
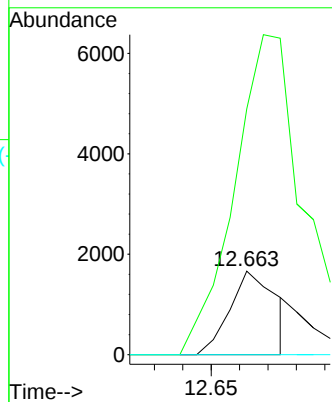
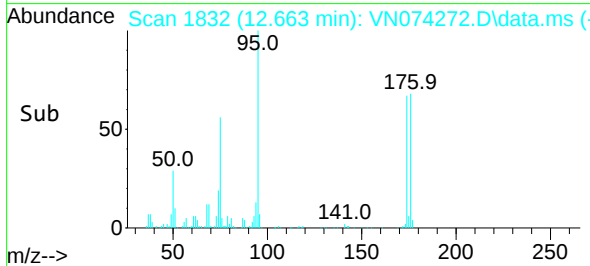


#71
Bromoform
Concen: 0.784 ug/l
RT: 12.663 min Scan# 1832
Delta R.T. 0.265 min
Lab File: VN074272.D
Acq: 02 Sep 2022 04:08

Instrument :
MSVOA_N
ClientSampleId :

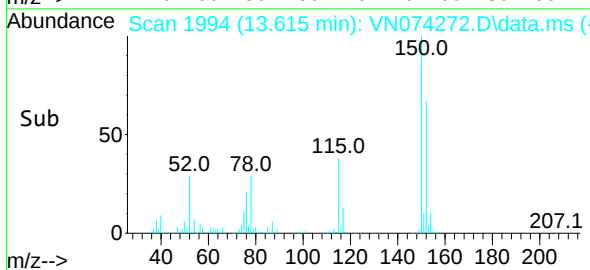
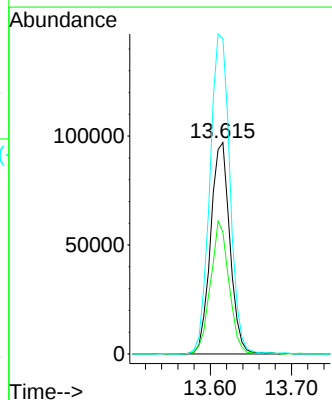
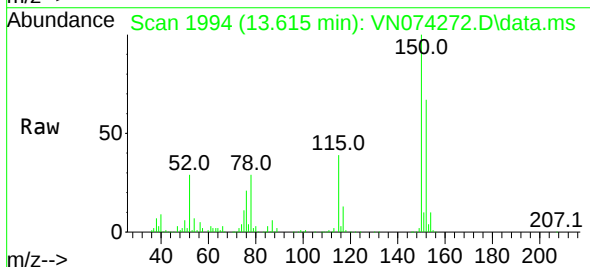


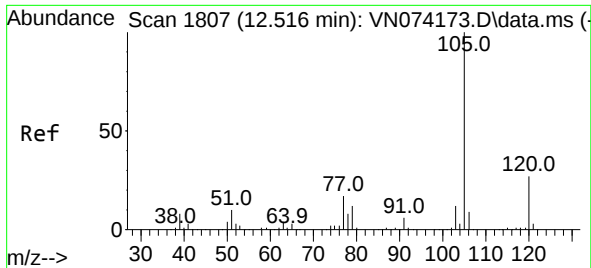
Tgt Ion:173 Resp: 1890
Ion Ratio Lower Upper
173 100
175 418.0 24.6 73.6#
254 0.0 0.1 0.1#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.615 min Scan# 1994
Delta R.T. 0.005 min
Lab File: VN074272.D
Acq: 02 Sep 2022 04:08

Tgt Ion:152 Resp: 160286
Ion Ratio Lower Upper
152 100
115 59.9 28.9 86.7
150 156.9 0.0 356.2

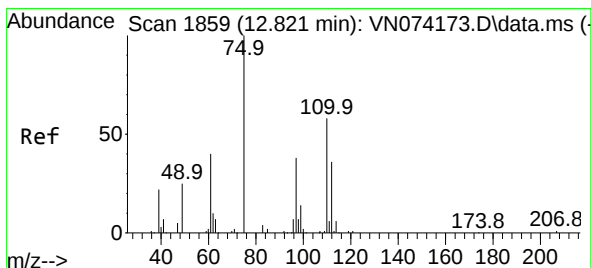
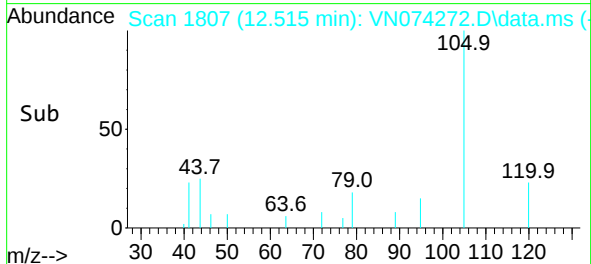
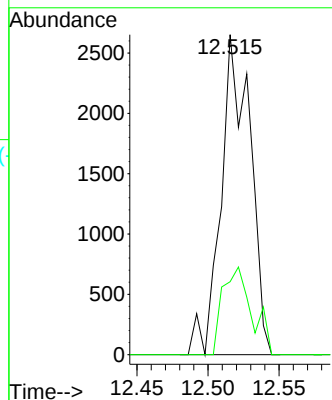
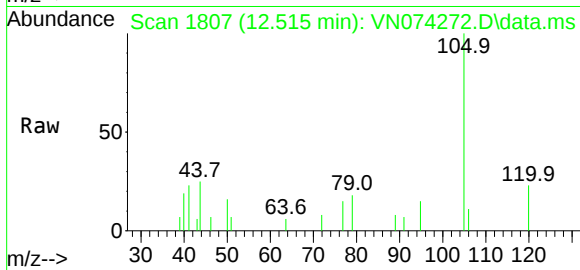




#73
Isopropylbenzene
Concen: 0.276 ug/l
RT: 12.515 min Scan# 1807
Delta R.T. -0.000 min
Lab File: VN074272.D
Acq: 02 Sep 2022 04:08

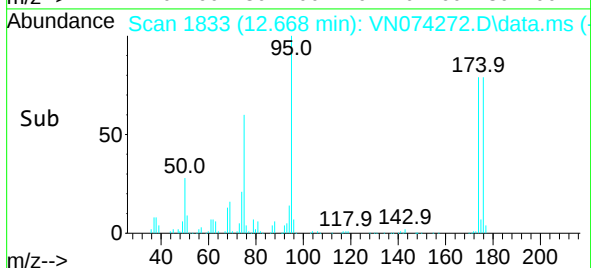
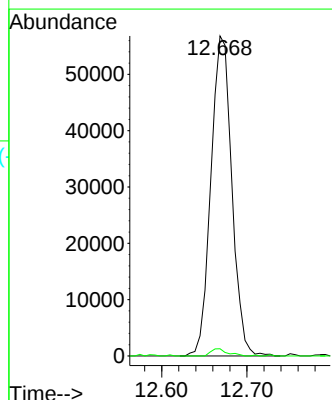
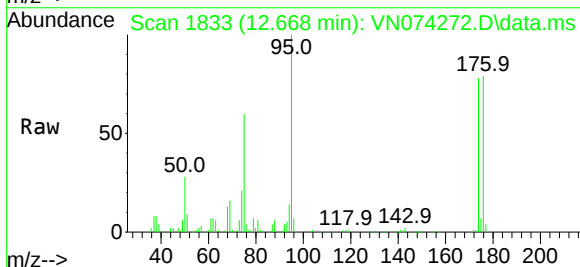
Instrument :
MSVOA_N
ClientSampleId :

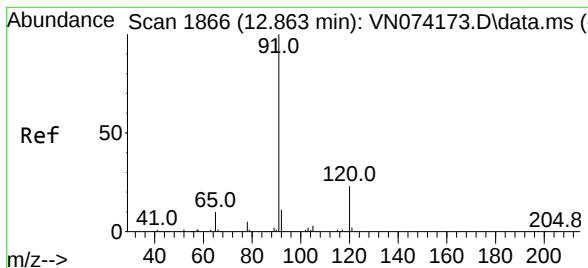
Tgt Ion:105 Resp: 3792
Ion Ratio Lower Upper
105 100
120 27.4 13.5 40.4



#76
1,2,3-Trichloropropane
Concen: 24.251 ug/l
RT: 12.668 min Scan# 1833
Delta R.T. -0.153 min
Lab File: VN074272.D
Acq: 02 Sep 2022 04:08

Tgt Ion: 75 Resp: 96841
Ion Ratio Lower Upper
75 100
77 1.8 98.5 295.5#





#78

n-propylbenzene

Concen: 0.589 ug/l

RT: 12.863 min Scan# 1866

Delta R.T. -0.000 min

Lab File: VN074272.D

Acq: 02 Sep 2022 04:08

Instrument :

MSVOA_N

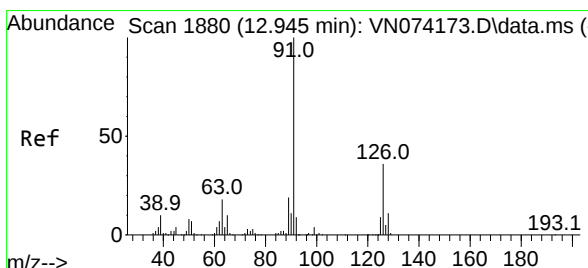
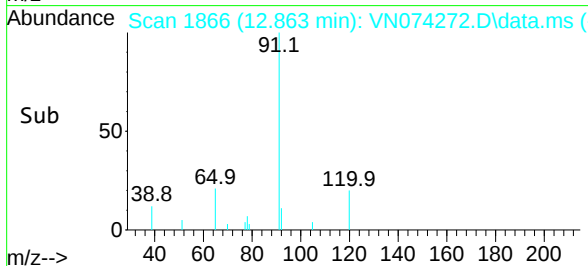
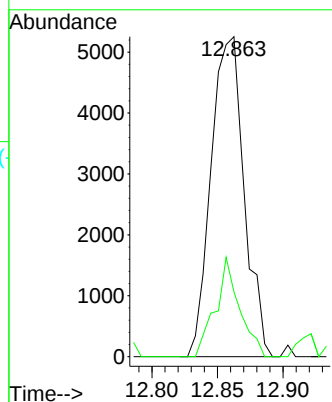
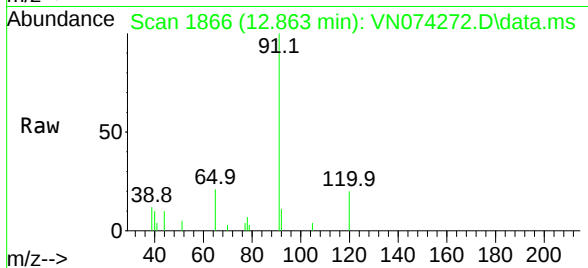
ClientSampleId :

Tgt Ion: 91 Resp: 9223

Ion Ratio Lower Upper

91 100

120 22.6 11.9 35.5



#79

2-Chlorotoluene

Concen: 0.962 ug/l

RT: 12.863 min Scan# 1866

Delta R.T. -0.082 min

Lab File: VN074272.D

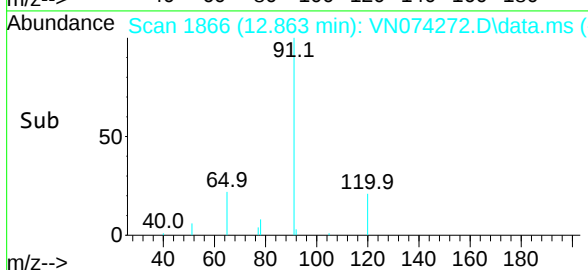
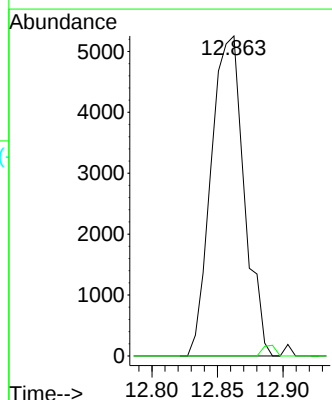
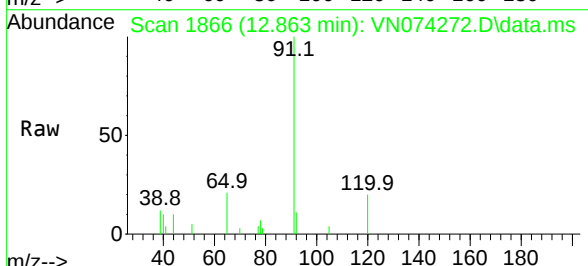
Acq: 02 Sep 2022 04:08

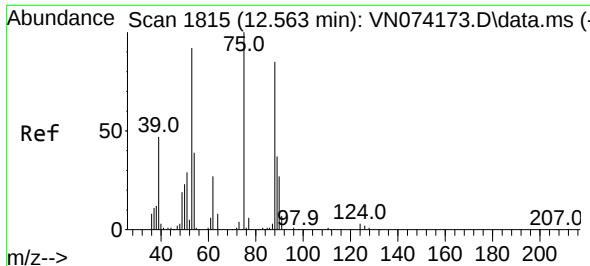
Tgt Ion: 91 Resp: 9223

Ion Ratio Lower Upper

91 100

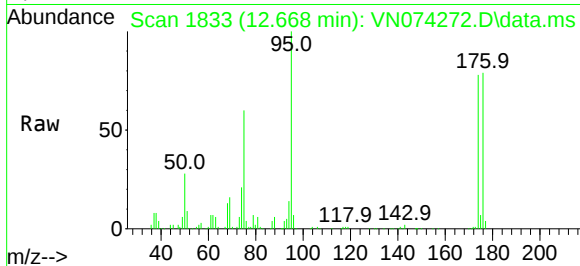
126 0.0 17.3 51.9#



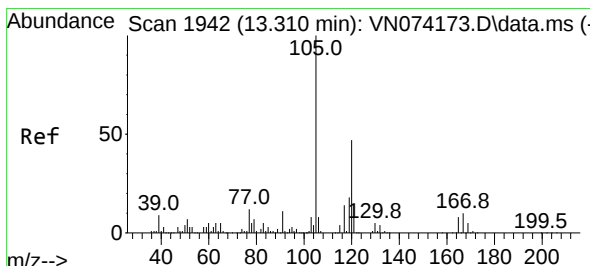
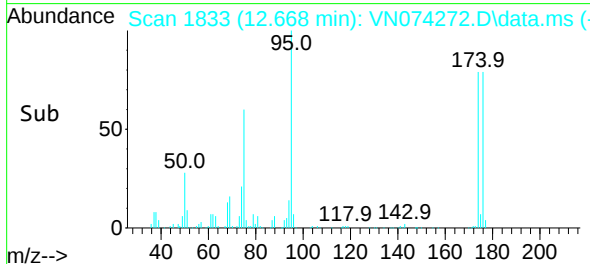
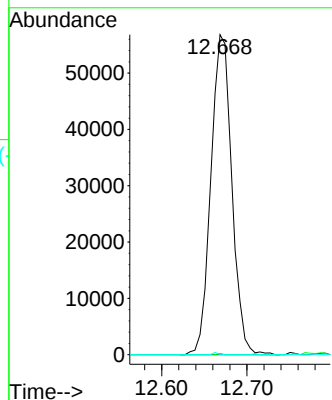


#81
trans-1,4-Dichloro-2-butene
Concen: 62.712 ug/l
RT: 12.668 min Scan# 1815
Delta R.T. 0.106 min
Lab File: VN074272.D
Acq: 02 Sep 2022 04:08

Instrument :
MSVOA_N
ClientSampleId :

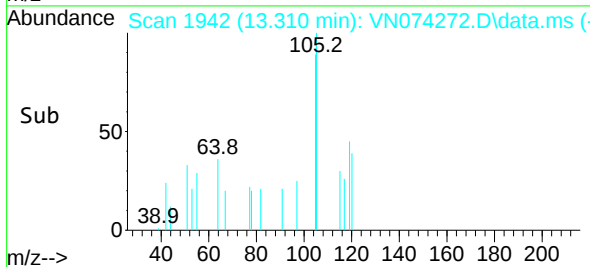
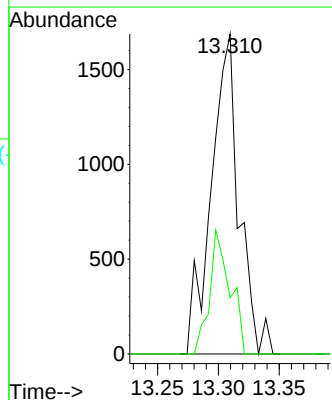
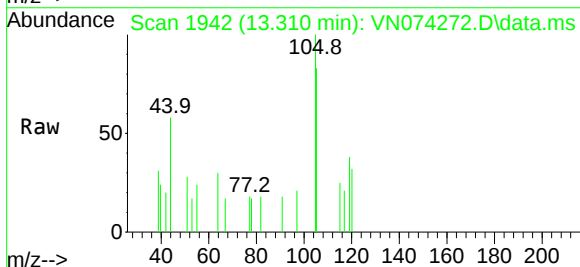


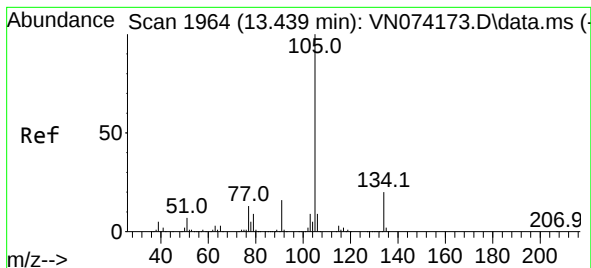
Tgt Ion: 75 Resp: 96841
Ion Ratio Lower Upper
75 100
53 0.1 78.0 117.0#
89 0.1 37.2 55.8#



#84
1,2,4-Trimethylbenzene
Concen: 0.248 ug/l
RT: 13.310 min Scan# 1942
Delta R.T. -0.000 min
Lab File: VN074272.D
Acq: 02 Sep 2022 04:08

Tgt Ion: 105 Resp: 2677
Ion Ratio Lower Upper
105 100
120 28.5 23.3 69.8





#85

sec-Butylbenzene

Concen: 0.763 ug/l

RT: 13.439 min Scan# 1964

Delta R.T. -0.000 min

Lab File: VN074272.D

Acq: 02 Sep 2022 04:08

Instrument :

MSVOA_N

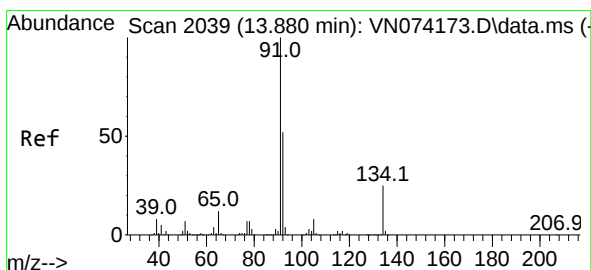
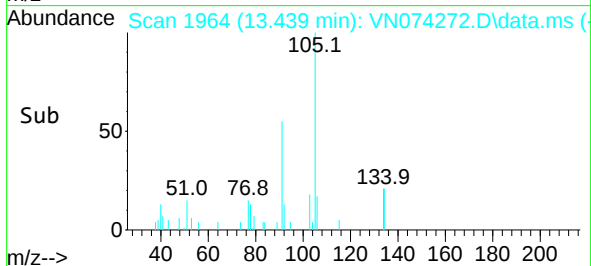
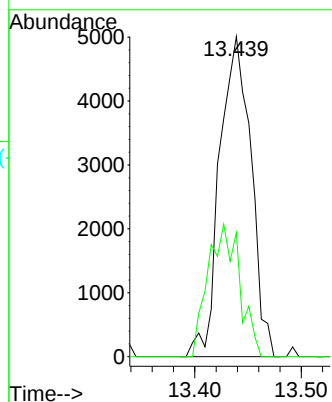
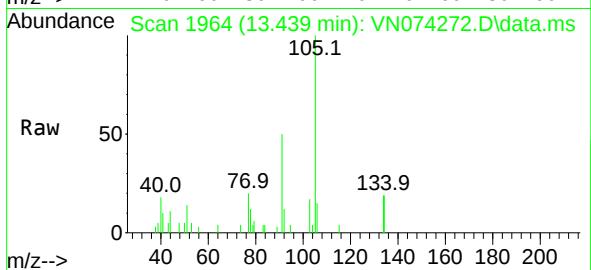
ClientSampleId :

Tgt Ion:105 Resp: 10220

Ion Ratio Lower Upper

105 100

134 42.0 10.4 31.1#



#89

n-Butylbenzene

Concen: 1.996 ug/l

RT: 13.874 min Scan# 2038

Delta R.T. -0.006 min

Lab File: VN074272.D

Acq: 02 Sep 2022 04:08

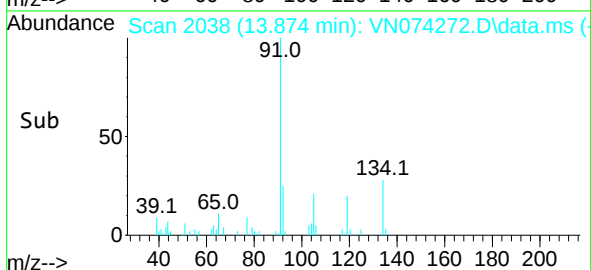
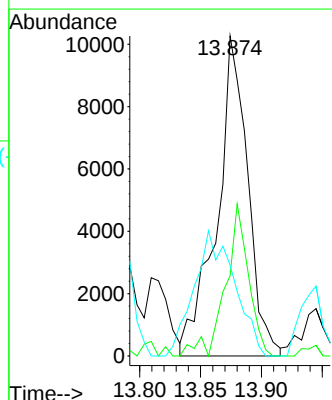
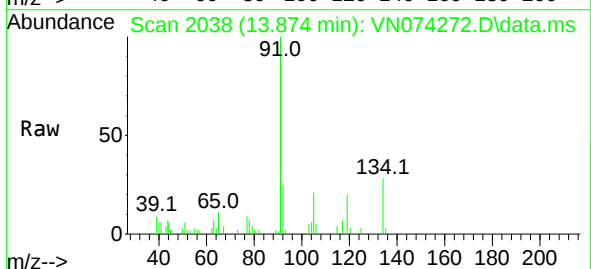
Tgt Ion: 91 Resp: 18121

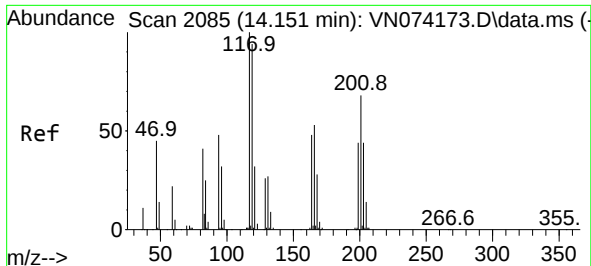
Ion Ratio Lower Upper

91 100

92 35.5 26.9 80.7

134 0.0 13.6 40.8#

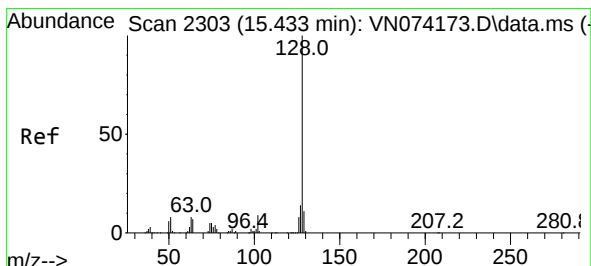
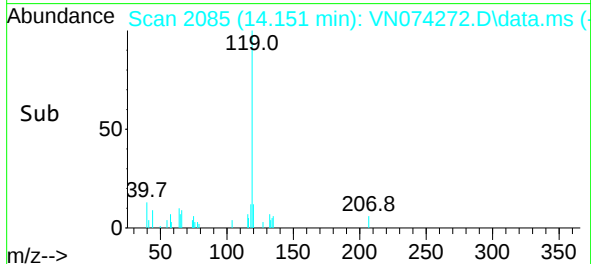
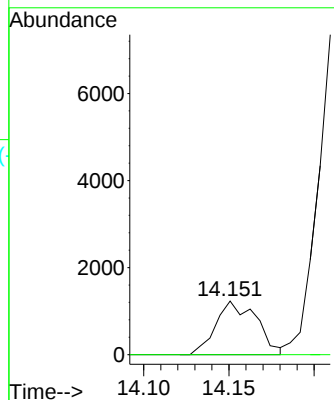
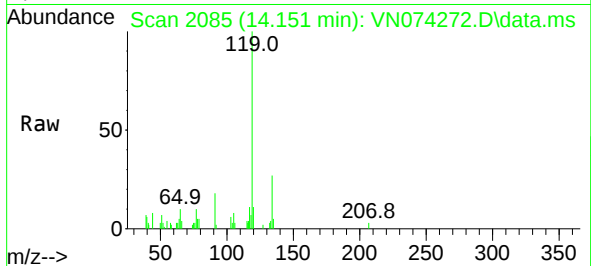




#90
Hexachloroethane
Concen: 0.957 ug/l
RT: 14.151 min Scan# 2085
Delta R.T. -0.000 min
Lab File: VN074272.D
Acq: 02 Sep 2022 04:08

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:117 Resp: 2056
Ion Ratio Lower Upper
117 100
201 0.0 40.6 122.0#



#95
Naphthalene
Concen: 1.863 ug/l
RT: 15.439 min Scan# 2304
Delta R.T. 0.006 min
Lab File: VN074272.D
Acq: 02 Sep 2022 04:08

Tgt Ion:128 Resp: 8862
Ion Ratio Lower Upper
128 100
127 12.7 10.3 15.5
129 6.6 8.6 13.0#

