

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090122\
 Data File : VN074264.D
 Acq On : 02 Sep 2022 00:53
 Operator : JC\MD
 Sample : N4376-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 02 05:43:54 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)

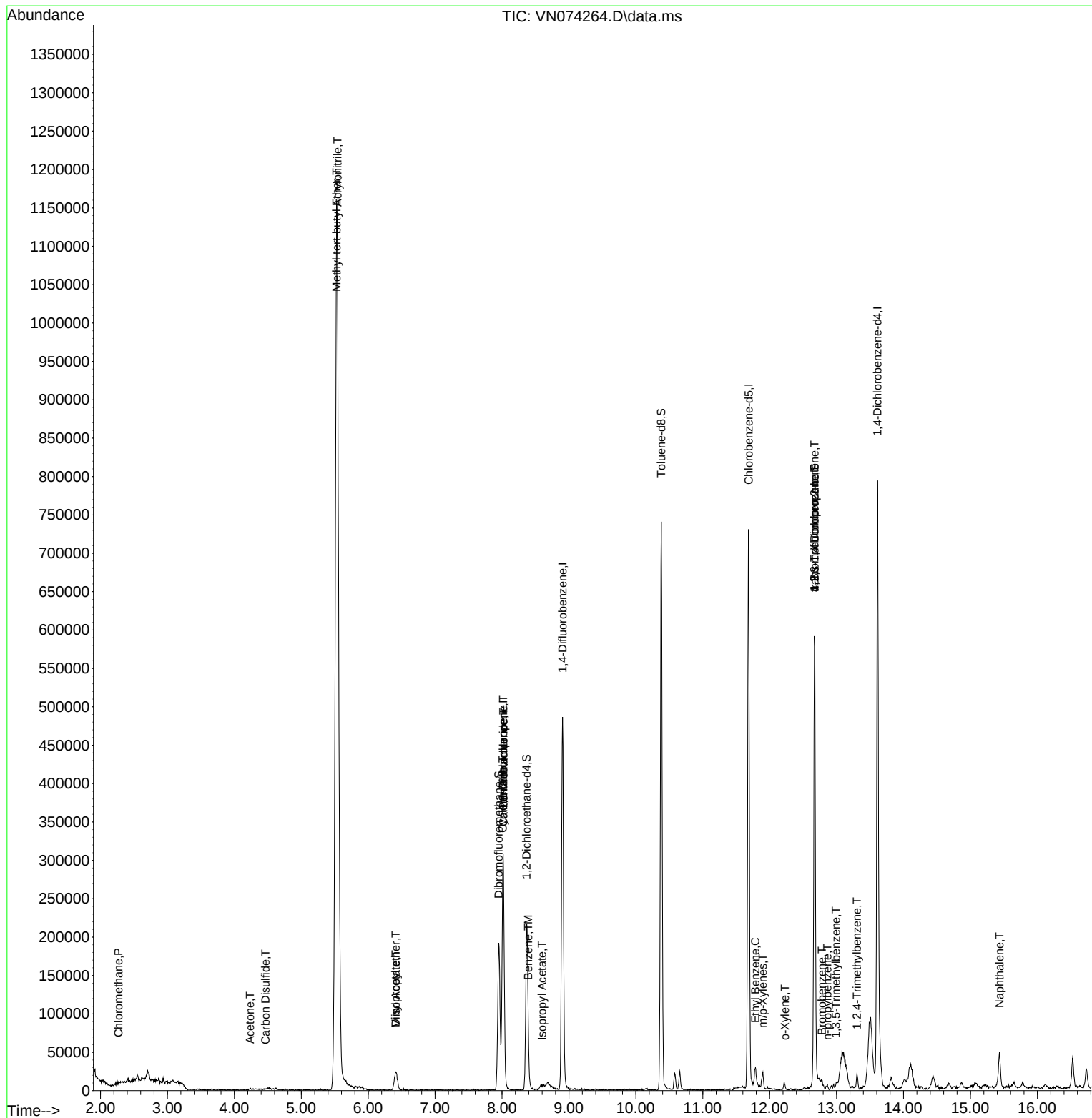
Internal Standards						
1) Pentafluorobenzene	8.016	168	213942	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	403556	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.686	117	380552	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.610	152	181446	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.369	65	164389	49.533	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	99.060%		
35) Dibromofluoromethane	7.951	113	137188	52.242	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	104.480%		
50) Toluene-d8	10.381	98	484594	46.859	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	93.720%		
62) 4-Bromofluorobenzene	12.669	95	180636	57.437	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	114.880%		
Target Compounds					Qvalue	
3) Chloromethane	2.269	50	1094	0.351	ug/l	93
6) Chloroethane	2.952	64	1009	Below Cal	#	42
11) Tert butyl alcohol	5.287	59	1698	Below Cal	#	72
15) Acrylonitrile	5.540	53	22543	9.402	ug/l #	32
16) Acetone	4.234	43	2974	1.341	ug/l #	70
17) Carbon Disulfide	4.463	76	1444	0.202	ug/l #	75
18) Methyl Acetate	4.781	43	1548	Below Cal	#	48
19) Methyl tert-butyl Ether	5.528	73	1848150	199.190	ug/l	97
20) Methylene Chloride	4.999	84	82	Below Cal	#	53
22) Diisopropyl ether	6.410	45	32518	2.853	ug/l #	92
23) Vinyl Acetate	6.410	43	16882	1.755	ug/l #	68
31) Cyclohexane	8.010	56	7224	1.317	ug/l #	51
36) 1,1-Dichloropropene	8.016	75	20641	4.844	ug/l #	51
38) Carbon Tetrachloride	8.022	117	24540	6.341	ug/l #	15
40) Benzene	8.392	78	12492	0.934	ug/l	99
43) Isopropyl Acetate	8.598	43	5654	0.590	ug/l #	53
67) Ethyl Benzene	11.786	91	14530	0.946	ug/l	91
68) m/p-Xylenes	11.898	106	6294	1.103	ug/l	97
69) o-Xylene	12.227	106	2875	0.505	ug/l	77
76) 1,2,3-Trichloropropane	12.669	75	106448	23.484	ug/l #	1
77) Bromobenzene	12.780	156	3791	1.043	ug/l #	1
78) n-propylbenzene	12.863	91	3938	0.222	ug/l	86
80) 1,3,5-Trimethylbenzene	12.992	105	2630	0.208	ug/l	85
81) trans-1,4-Dichloro-2-b...	12.669	75	106448	60.894	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.304	105	10033	0.823	ug/l	96
95) Naphthalene	15.433	128	43485	4.237	ug/l	96

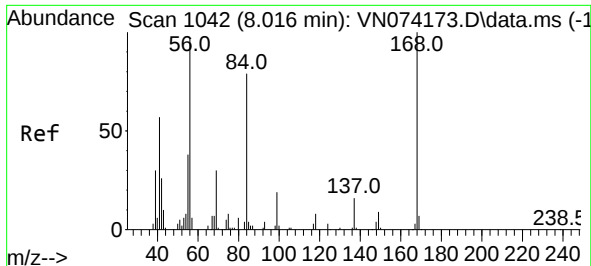
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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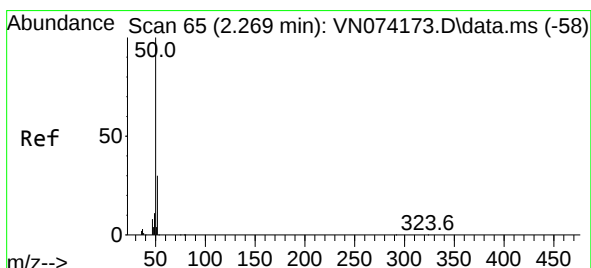
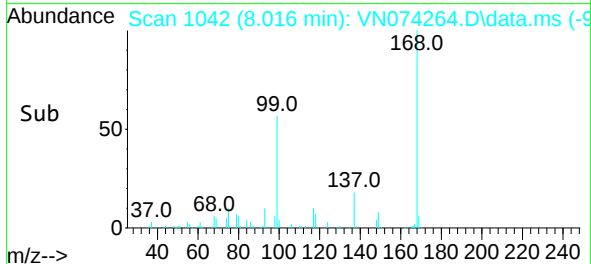
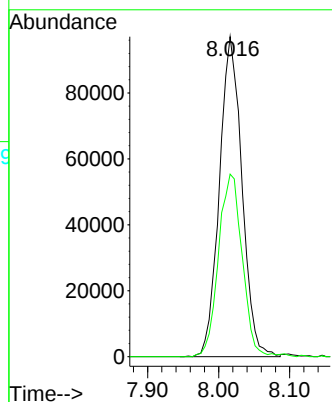
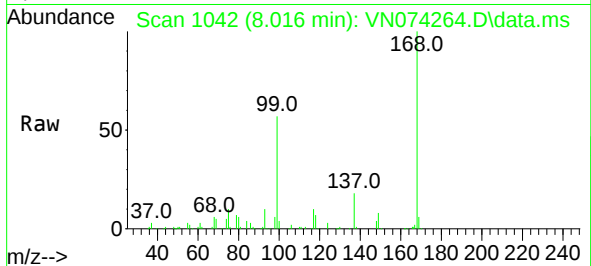




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. 0.000 min
Lab File: VN074264.D
Acq: 02 Sep 2022 00:53

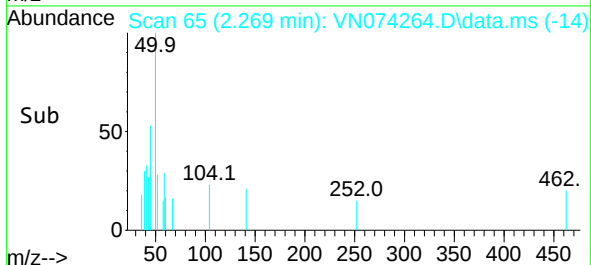
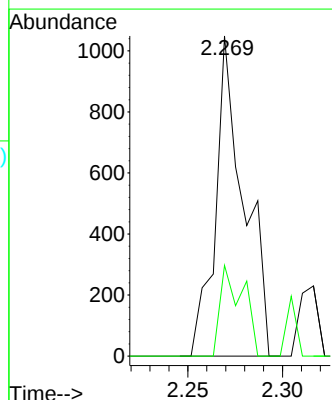
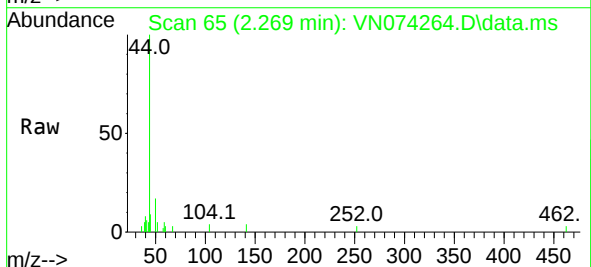
Instrument :
MSVOA_N
ClientSampleId :

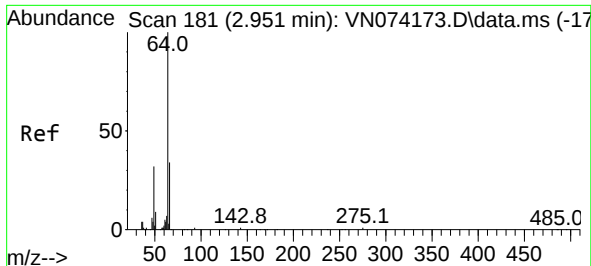
Tgt Ion:168 Resp: 213942
Ion Ratio Lower Upper
168 100
99 57.0 42.3 63.5



#3
Chloromethane
Concen: 0.351 ug/l
RT: 2.269 min Scan# 65
Delta R.T. 0.000 min
Lab File: VN074264.D
Acq: 02 Sep 2022 00:53

Tgt Ion: 50 Resp: 1094
Ion Ratio Lower Upper
50 100
52 28.3 25.7 38.5

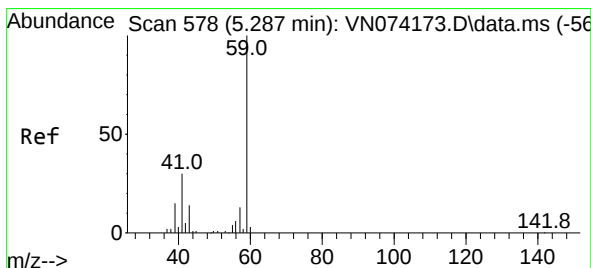
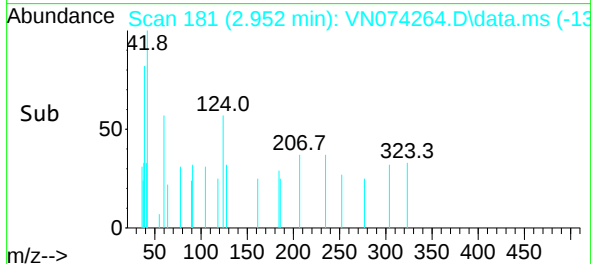
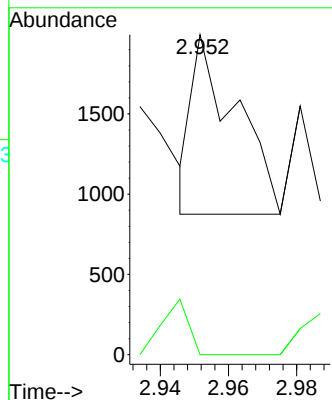
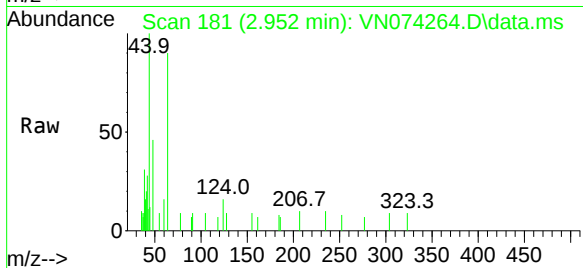




#6
Chloroethane
Concen: Below Cal
RT: 2.952 min Scan# 11
Delta R.T. 0.001 min
Lab File: VN074264.D
Acq: 02 Sep 2022 00:53

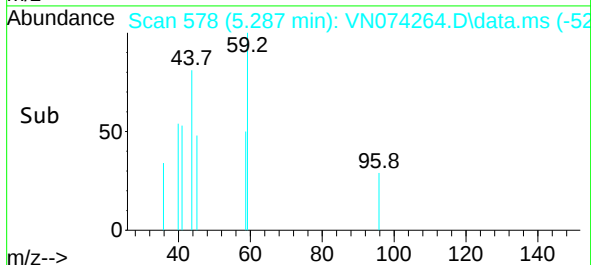
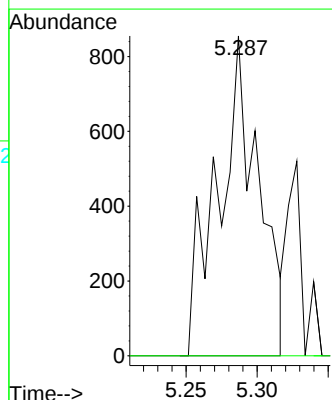
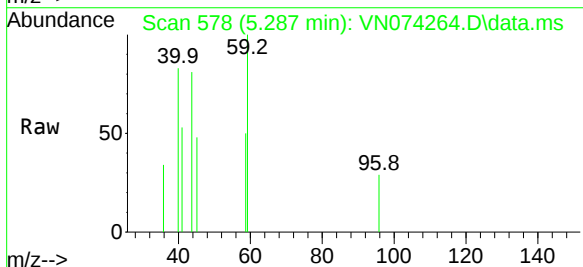
Instrument :
MSVOA_N
ClientSampleId :

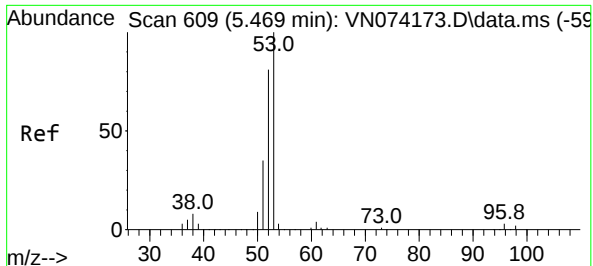
Tgt Ion: 64 Resp: 1009
Ion Ratio Lower Upper
64 100
66 0.0 26.2 39.4#



#11
Tert butyl alcohol
Concen: Below Cal
RT: 5.287 min Scan# 578
Delta R.T. -0.000 min
Lab File: VN074264.D
Acq: 02 Sep 2022 00:53

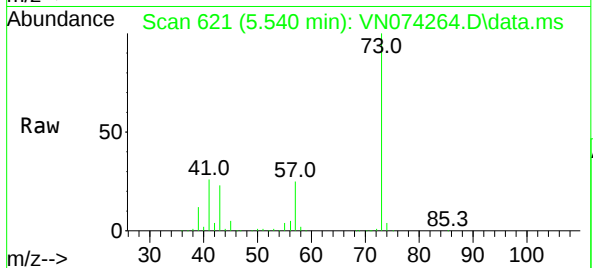
Tgt Ion: 59 Resp: 1698
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



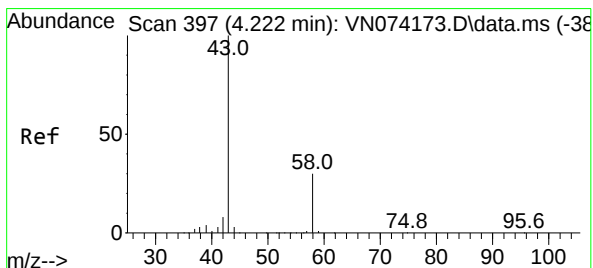
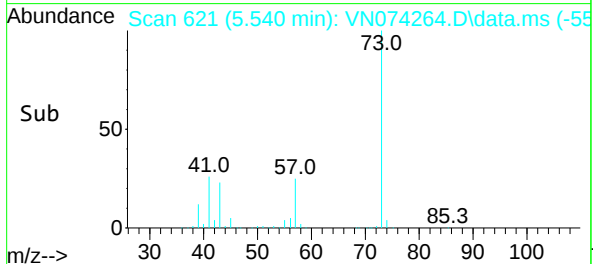
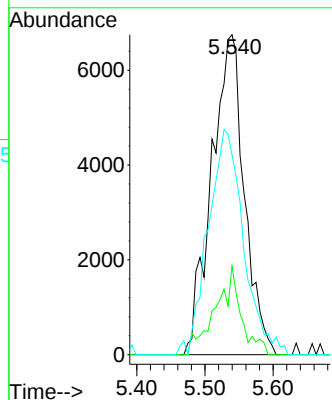


#15
Acrylonitrile
Concen: 9.402 ug/l
RT: 5.540 min Scan# 611
Delta R.T. 0.071 min
Lab File: VN074264.D
Acq: 02 Sep 2022 00:53

Instrument :
MSVOA_N
ClientSampleId :

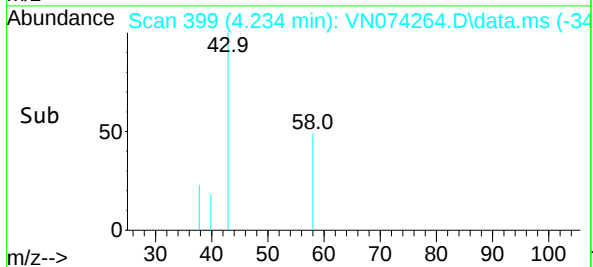
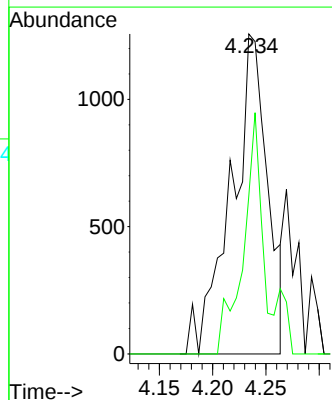
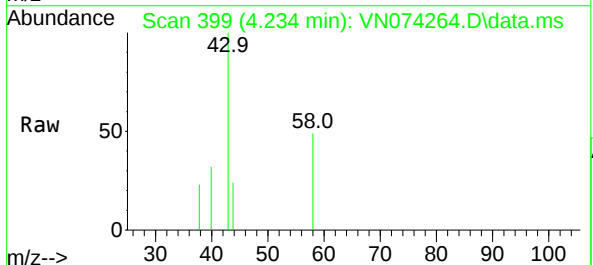


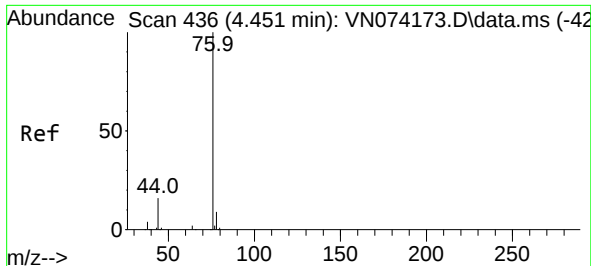
Tgt Ion: 53 Resp: 22543
Ion Ratio Lower Upper
53 100
52 21.7 66.4 99.6#
51 76.0 28.5 42.7#



#16
Acetone
Concen: 1.341 ug/l
RT: 4.234 min Scan# 399
Delta R.T. 0.012 min
Lab File: VN074264.D
Acq: 02 Sep 2022 00:53

Tgt Ion: 43 Resp: 2974
Ion Ratio Lower Upper
43 100
58 49.5 26.0 39.0#





#17

Carbon Disulfide

Concen: 0.202 ug/l

RT: 4.463 min Scan# 41

Delta R.T. 0.012 min

Lab File: VN074264.D

Acq: 02 Sep 2022 00:53

Instrument :

MSVOA_N

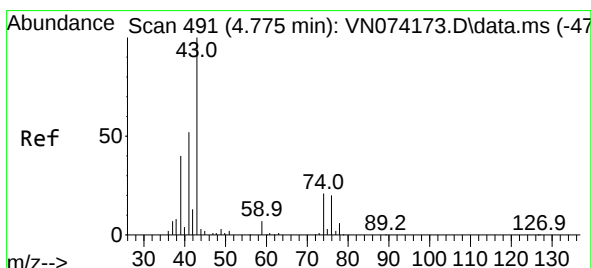
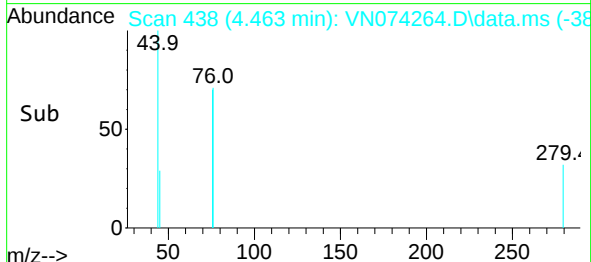
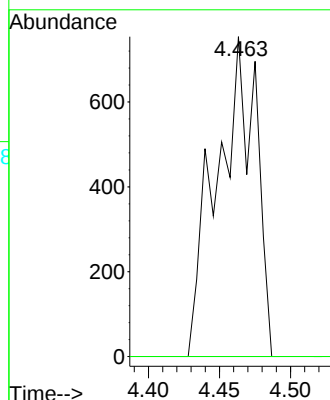
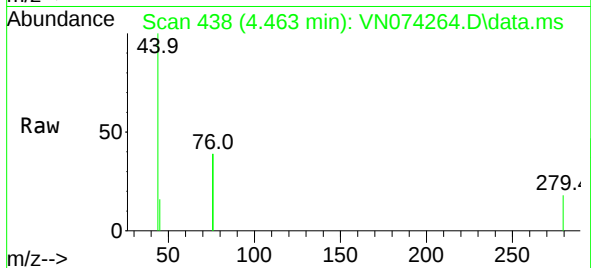
ClientSampleId :

Tgt Ion: 76 Resp: 1444

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#



#18

Methyl Acetate

Concen: Below Cal

RT: 4.781 min Scan# 492

Delta R.T. 0.006 min

Lab File: VN074264.D

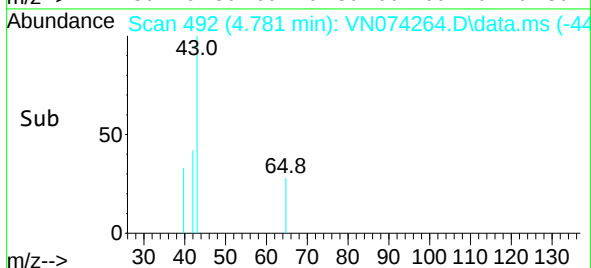
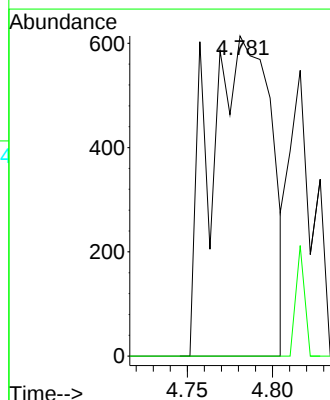
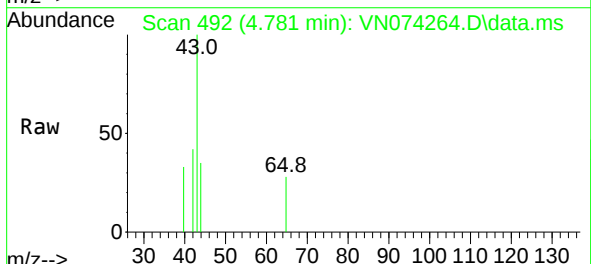
Acq: 02 Sep 2022 00:53

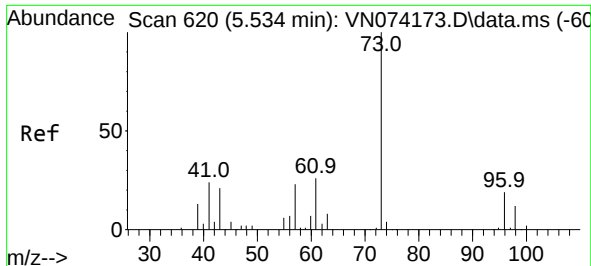
Tgt Ion: 43 Resp: 1548

Ion Ratio Lower Upper

43 100

74 0.0 21.6 32.4#

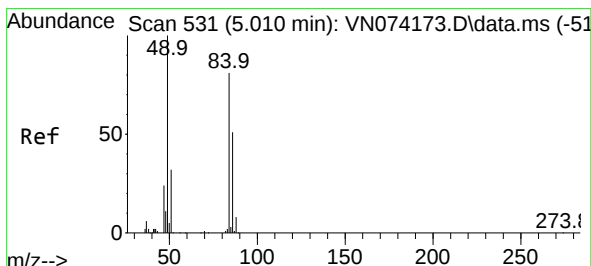
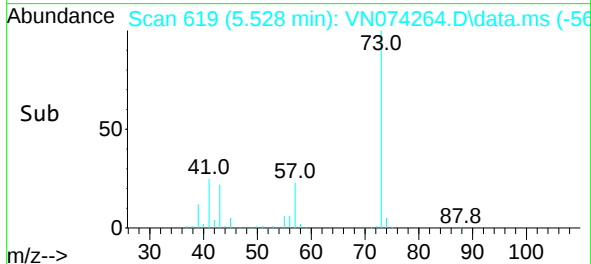
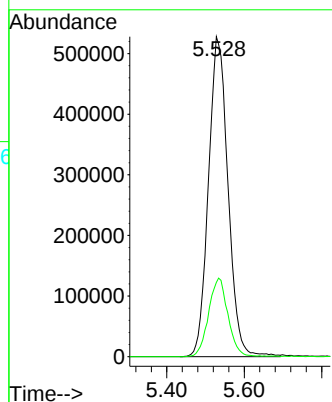
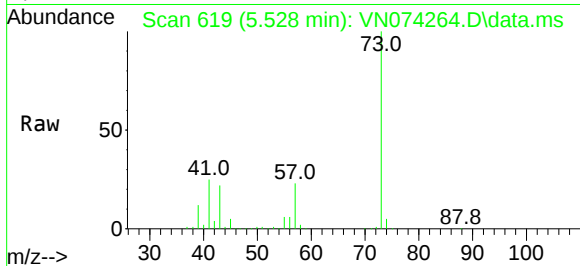




#19
Methyl tert-butyl Ether
Concen: 199.190 ug/l
RT: 5.528 min Scan# 61
Delta R.T. -0.006 min
Lab File: VN074264.D
Acq: 02 Sep 2022 00:53

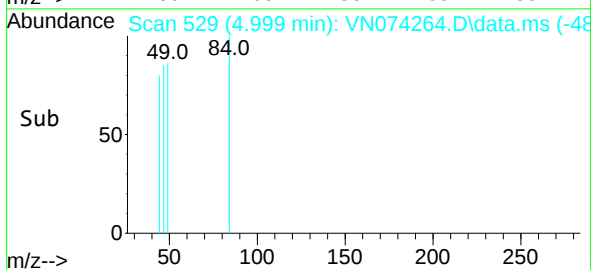
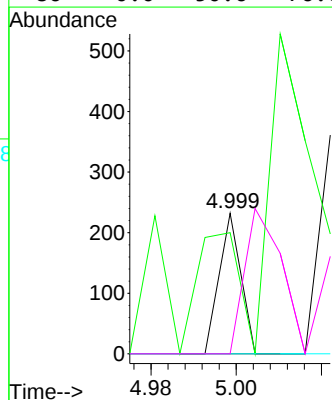
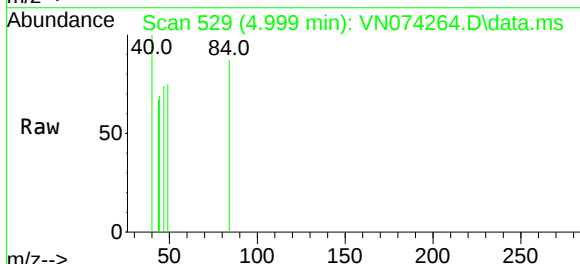
Instrument :
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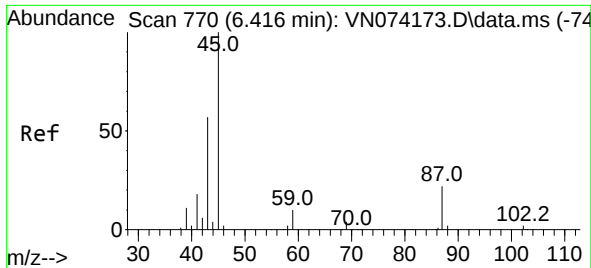
Tgt Ion: 73 Resp: 1848150
Ion Ratio Lower Upper
73 100
57 23.2 17.6 26.4



#20
Methylene Chloride
Concen: Below Cal
RT: 4.999 min Scan# 529
Delta R.T. -0.011 min
Lab File: VN074264.D
Acq: 02 Sep 2022 00:53

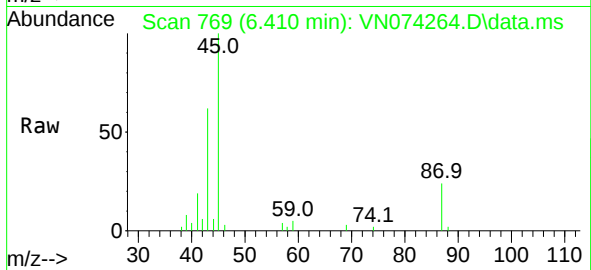
Tgt Ion: 84 Resp: 82
Ion Ratio Lower Upper
84 100
49 86.2 88.3 132.5#
51 0.0 28.2 42.2#
86 0.0 50.6 76.0#



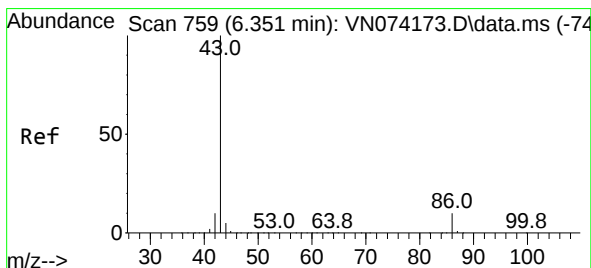
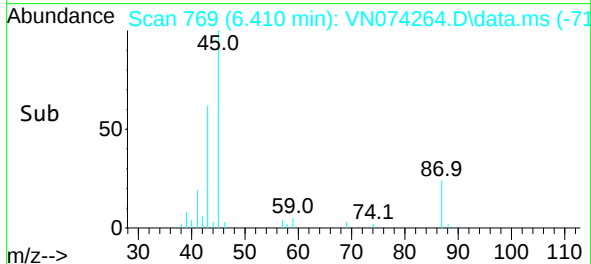
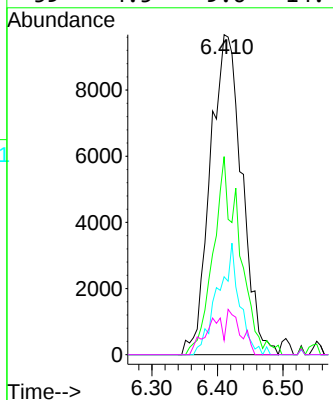


#22
Diisopropyl ether
Concen: 2.853 ug/l
RT: 6.410 min Scan# 770
Delta R.T. -0.006 min
Lab File: VN074264.D
Acq: 02 Sep 2022 00:53

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ClientSampleId :

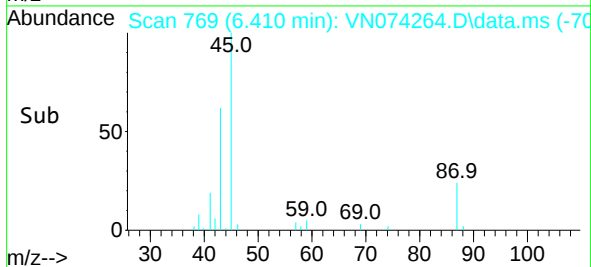
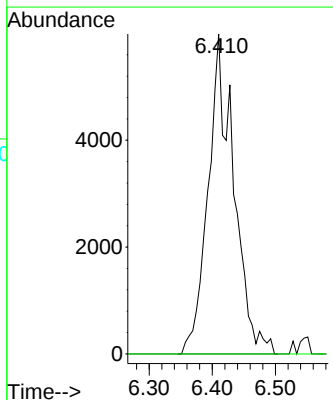
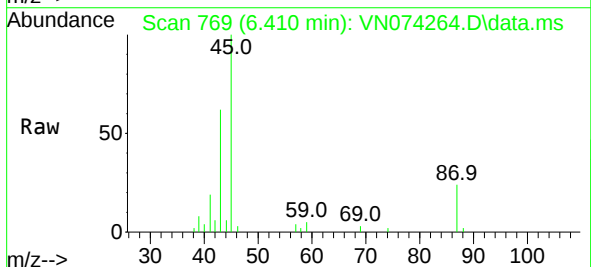


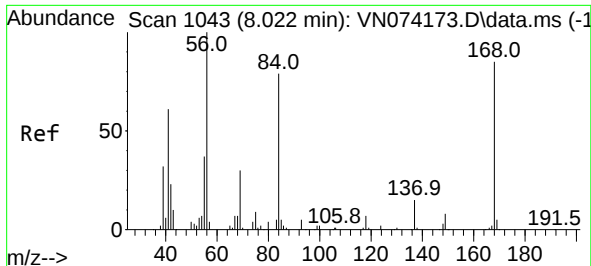
Tgt Ion: 45 Resp: 32518
Ion Ratio Lower Upper
45 100
43 61.9 46.6 70.0
87 24.4 24.3 36.5
59 4.5 9.6 14.4#



#23
Vinyl Acetate
Concen: 1.755 ug/l
RT: 6.410 min Scan# 769
Delta R.T. 0.059 min
Lab File: VN074264.D
Acq: 02 Sep 2022 00:53

Tgt Ion: 43 Resp: 16882
Ion Ratio Lower Upper
43 100
86 0.0 10.0 15.0#





#31

Cyclohexane

Concen: 1.317 ug/l

RT: 8.010 min Scan# 1041

Delta R.T. -0.012 min

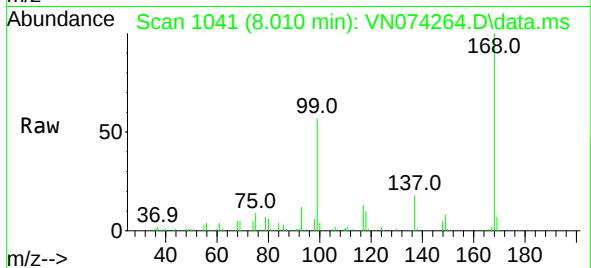
Lab File: VN074264.D

Acq: 02 Sep 2022 00:53

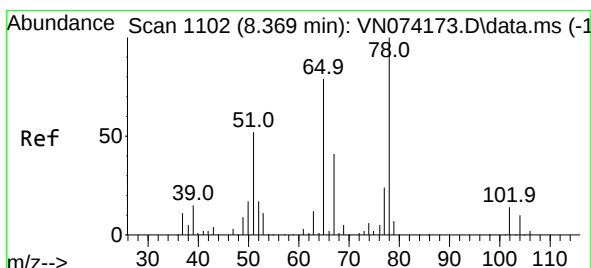
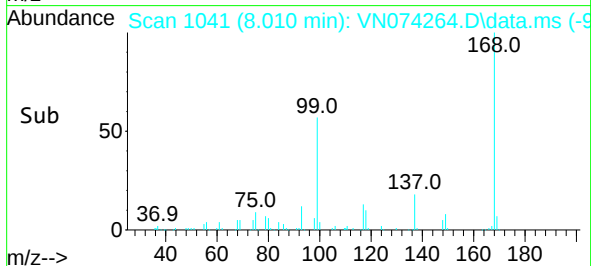
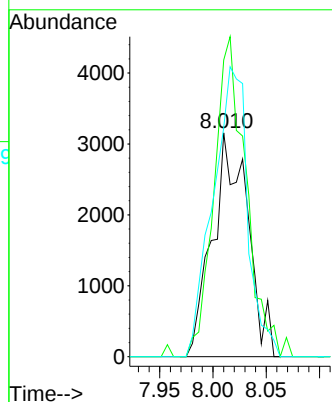
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 56	Resp: 7224
Ion Ratio	Lower Upper
56	100
69	132.5 27.8 41.8#
84	102.3 76.9 115.3



#33

1,2-Dichloroethane-d4

Concen: 49.533 ug/l

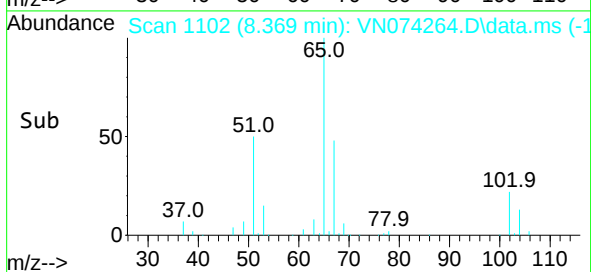
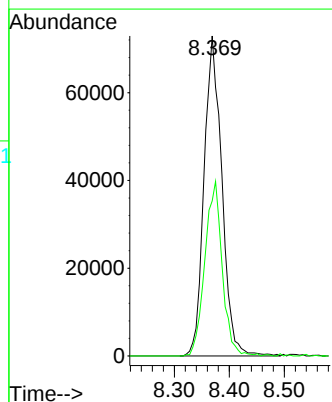
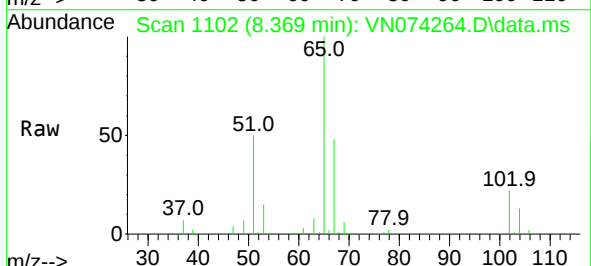
RT: 8.369 min Scan# 1102

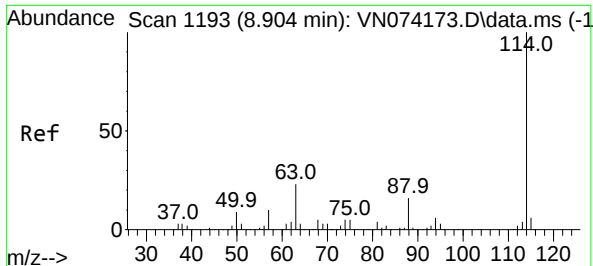
Delta R.T. 0.000 min

Lab File: VN074264.D

Acq: 02 Sep 2022 00:53

Tgt Ion: 65	Resp: 164389
Ion Ratio	Lower Upper
65	100
67	53.0 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: VN074264.D

Acq: 02 Sep 2022 00:53

Instrument :

MSVOA_N

ClientSampleId :

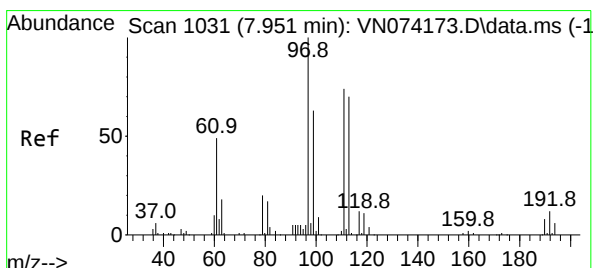
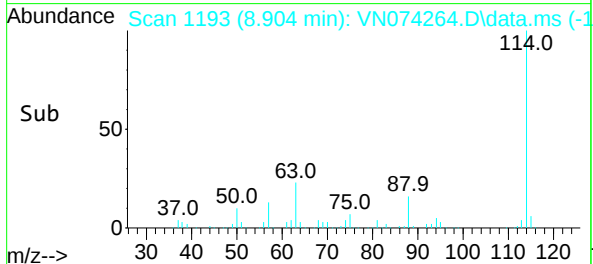
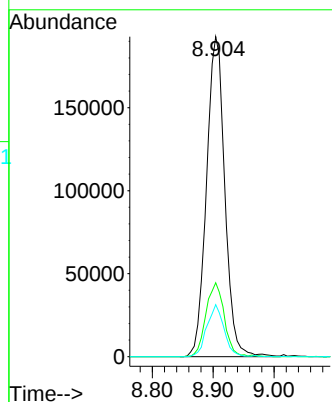
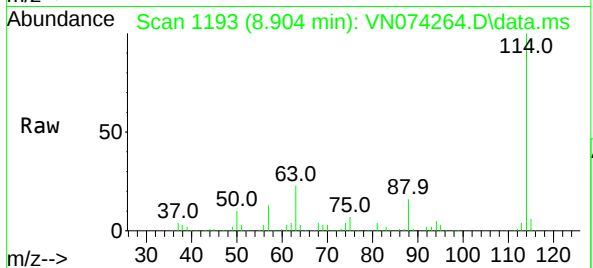
Tgt Ion:114 Resp: 403556

Ion Ratio Lower Upper

114 100

63 23.1 0.0 40.0

88 16.2 0.0 32.6



#35

Dibromofluoromethane

Concen: 52.242 ug/l

RT: 7.951 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VN074264.D

Acq: 02 Sep 2022 00:53

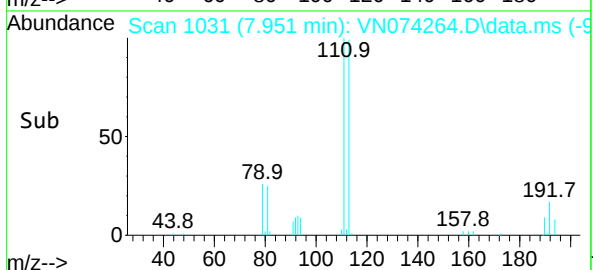
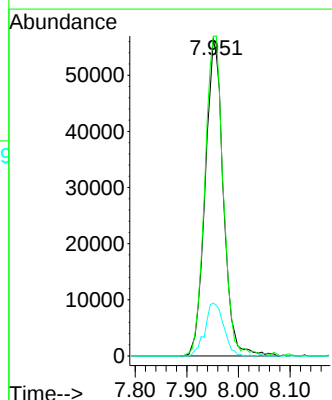
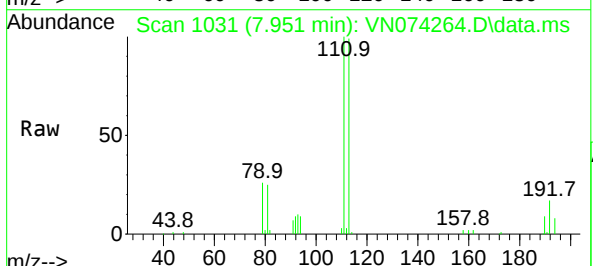
Tgt Ion:113 Resp: 137188

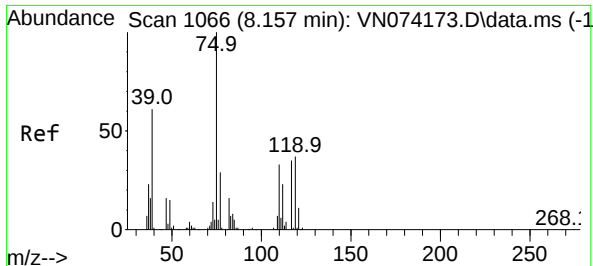
Ion Ratio Lower Upper

113 100

111 102.9 81.4 122.0

192 17.3 17.0 25.6





#36

1,1-Dichloropropene

Concen: 4.844 ug/l

RT: 8.016 min Scan# 1042

Delta R.T. -0.141 min

Lab File: VN074264.D

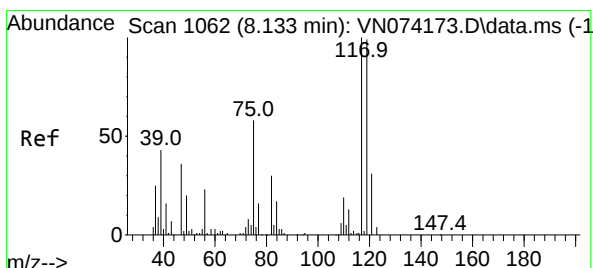
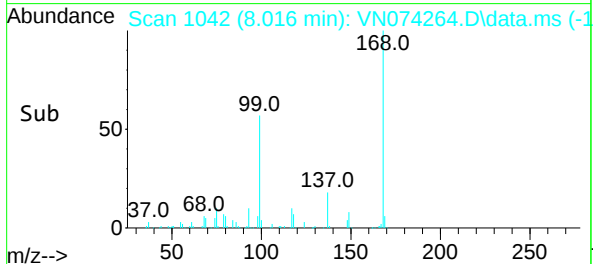
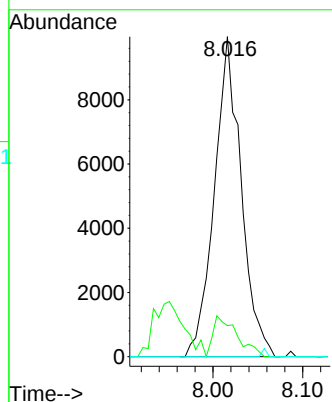
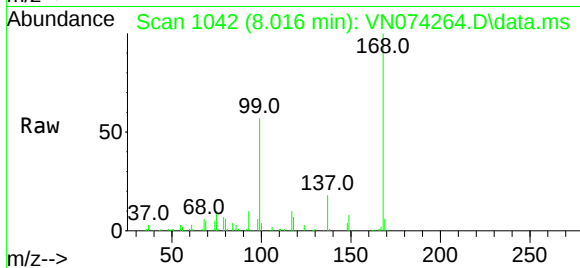
Acq: 02 Sep 2022 00:53

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:	75	Resp:	20641
Ion	Ratio	Lower	Upper
75	100		
110	11.4	18.3	54.8#
77	0.0	25.1	37.7#



#38

Carbon Tetrachloride

Concen: 6.341 ug/l

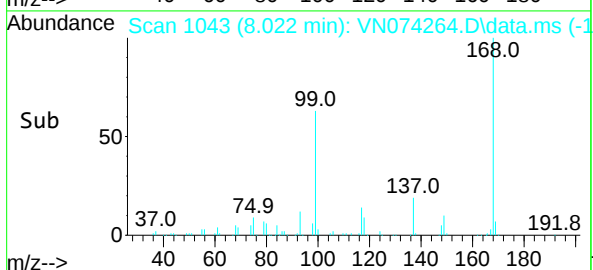
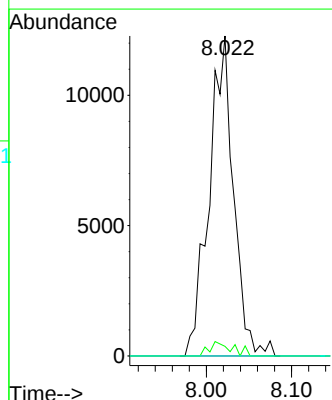
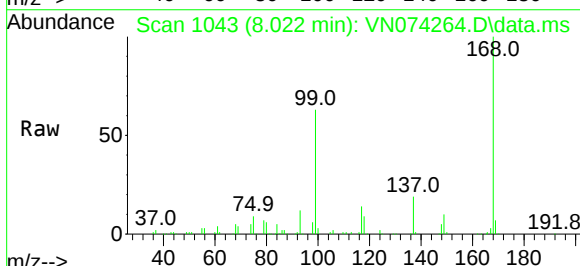
RT: 8.022 min Scan# 1043

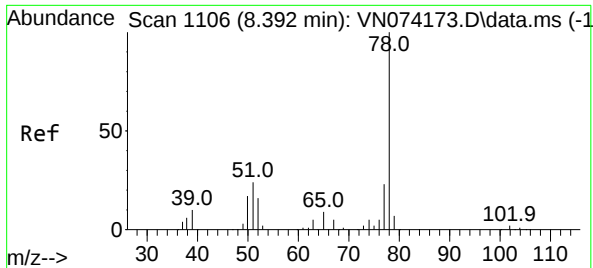
Delta R.T. -0.111 min

Lab File: VN074264.D

Acq: 02 Sep 2022 00:53

Tgt Ion:	117	Resp:	24540
Ion	Ratio	Lower	Upper
117	100		
119	3.0	75.8	113.8#
121	0.0	24.6	37.0#

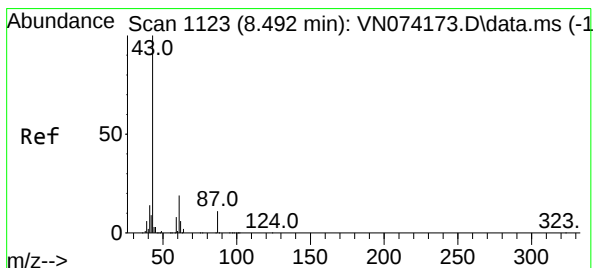
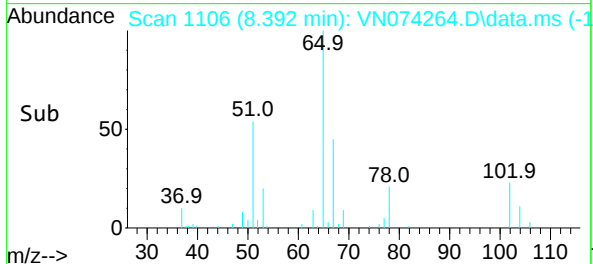
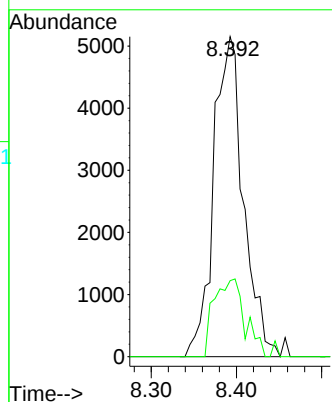
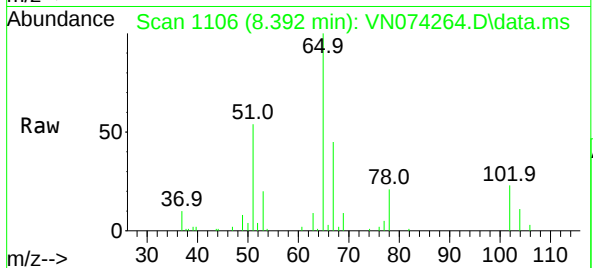




#40
Benzene
Concen: 0.934 ug/l
RT: 8.392 min Scan# 1140
Delta R.T. 0.000 min
Lab File: VN074264.D
Acq: 02 Sep 2022 00:53

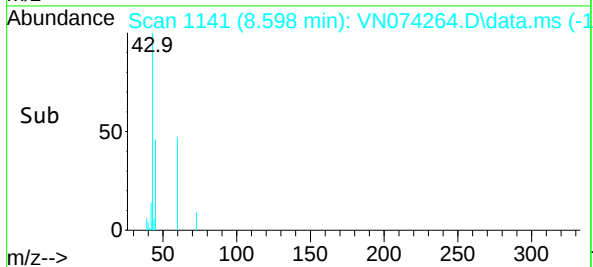
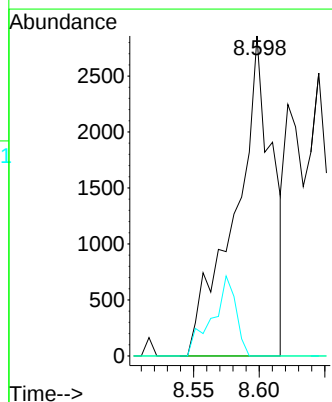
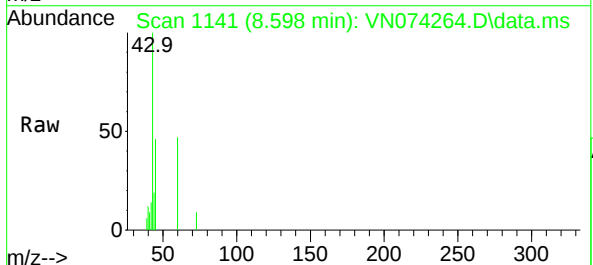
Instrument :
MSVOA_N
ClientSampleId :

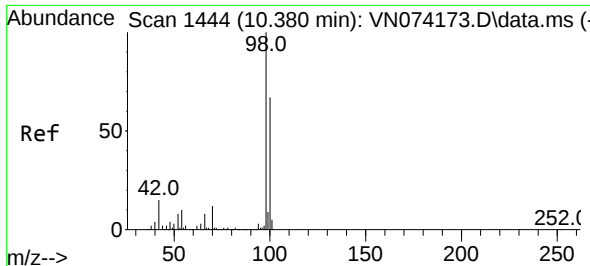
Tgt Ion: 78 Resp: 12492
Ion Ratio Lower Upper
78 100
77 23.7 19.4 29.0



#43
Isopropyl Acetate
Concen: 0.590 ug/l
RT: 8.598 min Scan# 1141
Delta R.T. 0.106 min
Lab File: VN074264.D
Acq: 02 Sep 2022 00:53

Tgt Ion: 43 Resp: 5654
Ion Ratio Lower Upper
43 100
61 0.0 21.9 32.9#
87 0.0 12.0 18.0#

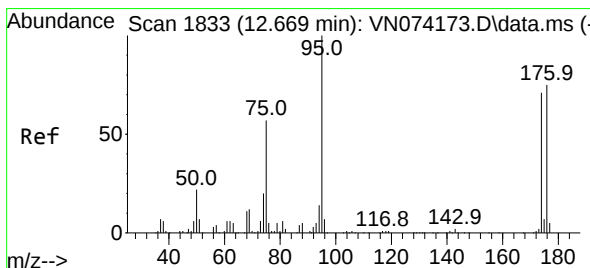
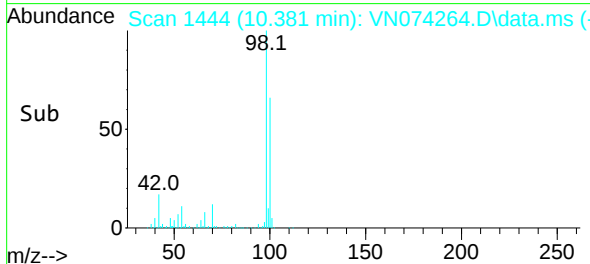
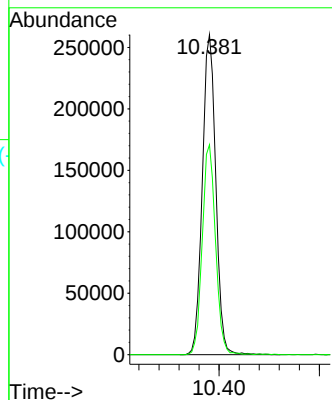
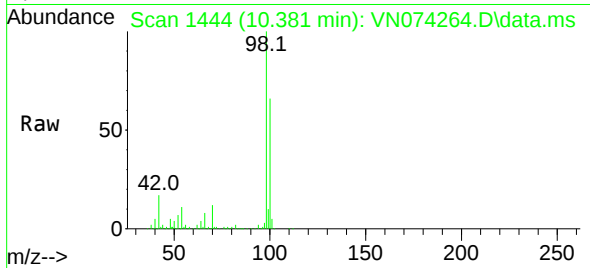




#50
Toluene-d8
Concen: 46.859 ug/l
RT: 10.381 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN074264.D
Acq: 02 Sep 2022 00:53

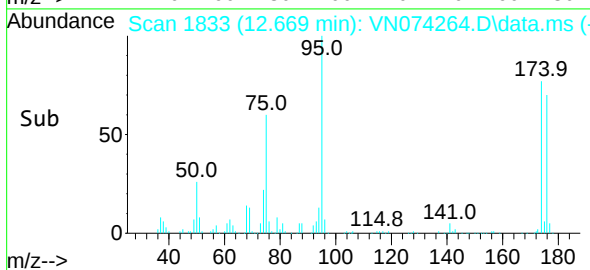
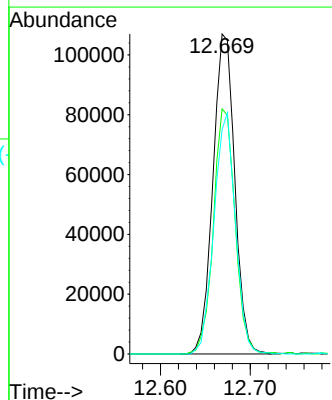
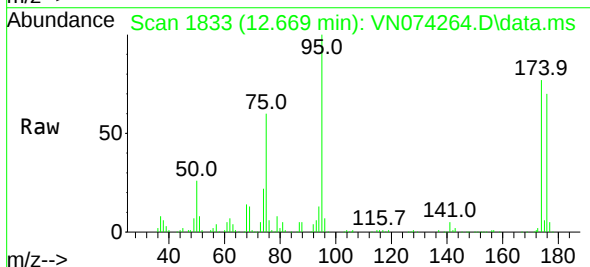
Instrument :
MSVOA_N
ClientSampleId :

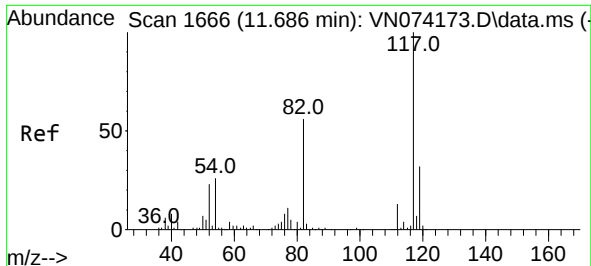
Tgt Ion: 98 Resp: 484594
Ion Ratio Lower Upper
98 100
100 64.8 52.6 78.8



#62
4-Bromofluorobenzene
Concen: 57.437 ug/l
RT: 12.669 min Scan# 1833
Delta R.T. 0.000 min
Lab File: VN074264.D
Acq: 02 Sep 2022 00:53

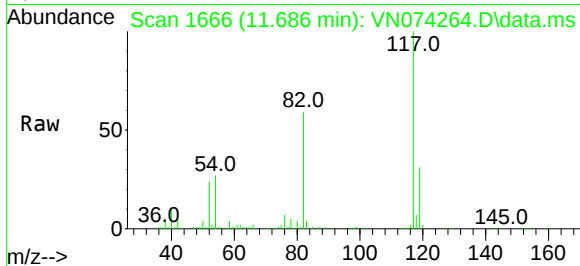
Tgt Ion: 95 Resp: 180636
Ion Ratio Lower Upper
95 100
174 75.9 0.0 167.6
176 73.8 0.0 163.4



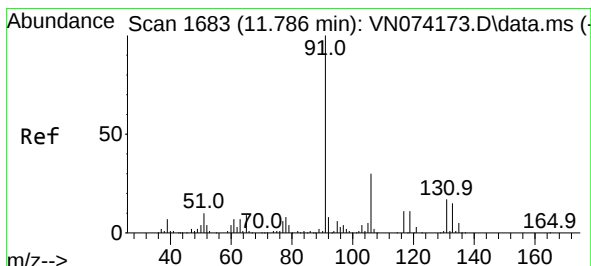
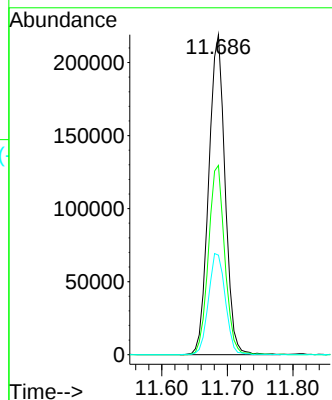
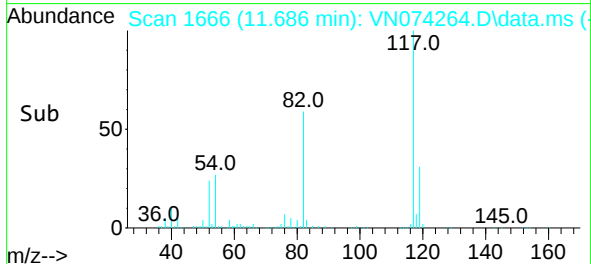


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.686 min Scan# 1666
Delta R.T. 0.000 min
Lab File: VN074264.D
Acq: 02 Sep 2022 00:53

Instrument :
MSVOA_N
ClientSampleId :

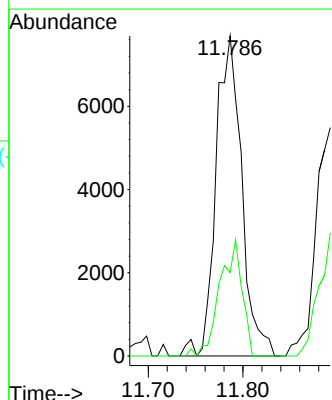
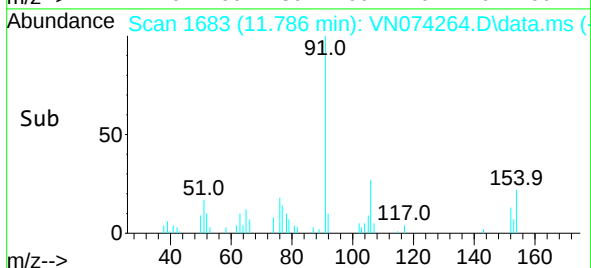
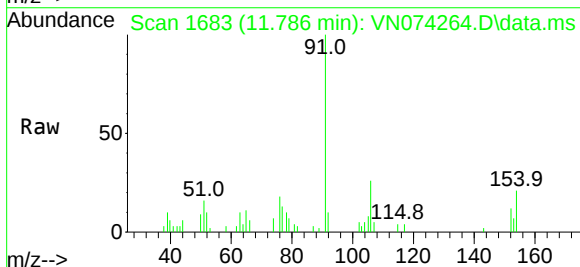


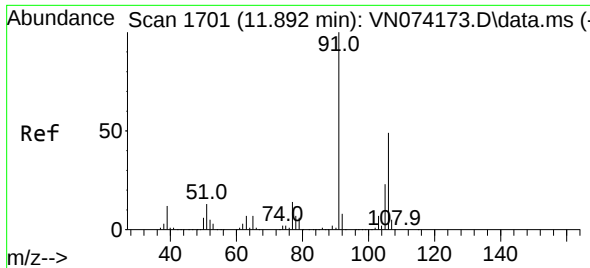
Tgt Ion:117 Resp: 380552
Ion Ratio Lower Upper
117 100
82 59.2 44.2 66.2
119 31.1 25.4 38.0



#67
Ethyl Benzene
Concen: 0.946 ug/l
RT: 11.786 min Scan# 1683
Delta R.T. 0.000 min
Lab File: VN074264.D
Acq: 02 Sep 2022 00:53

Tgt Ion: 91 Resp: 14530
Ion Ratio Lower Upper
91 100
106 26.1 24.9 37.3

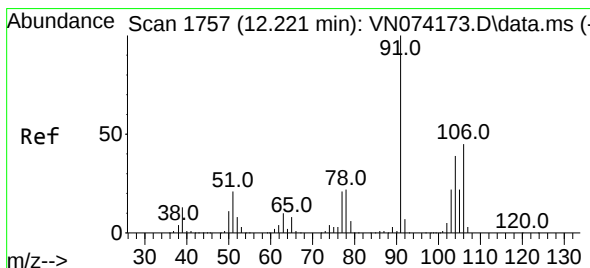
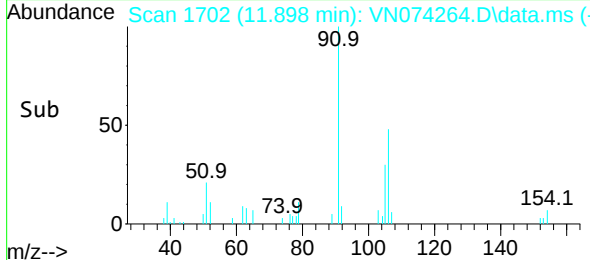
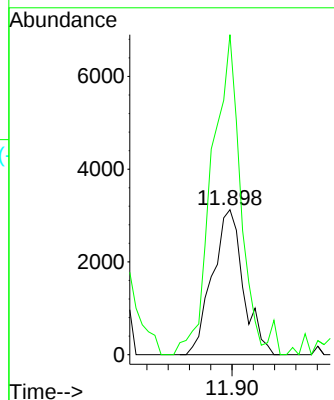
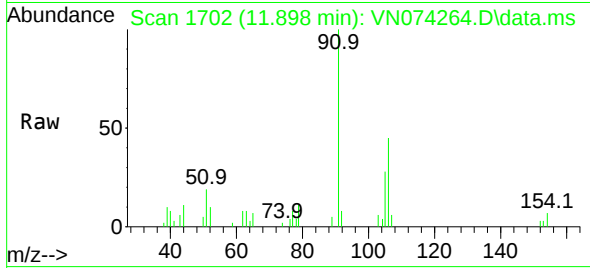




#68
m/p-Xylenes
Concen: 1.103 ug/l
RT: 11.898 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN074264.D
Acq: 02 Sep 2022 00:53

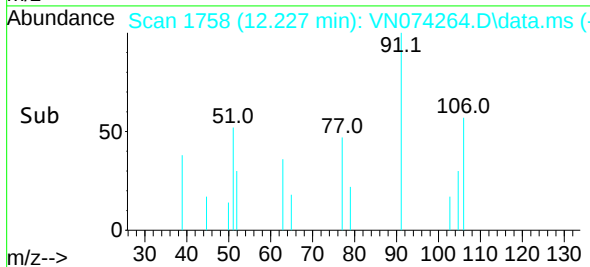
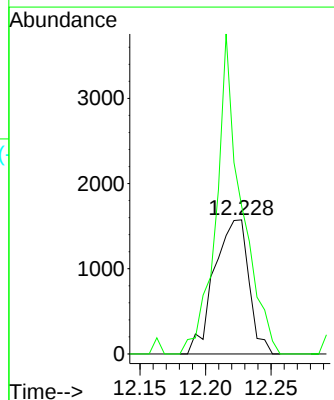
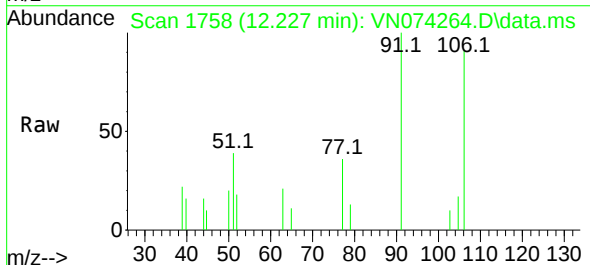
Instrument :
MSVOA_N
ClientSampleId :

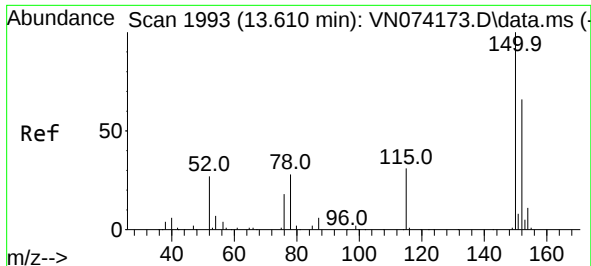
Tgt Ion:106 Resp: 6294
Ion Ratio Lower Upper
106 100
91 203.7 158.9 238.3



#69
o-Xylene
Concen: 0.505 ug/l
RT: 12.227 min Scan# 1758
Delta R.T. 0.006 min
Lab File: VN074264.D
Acq: 02 Sep 2022 00:53

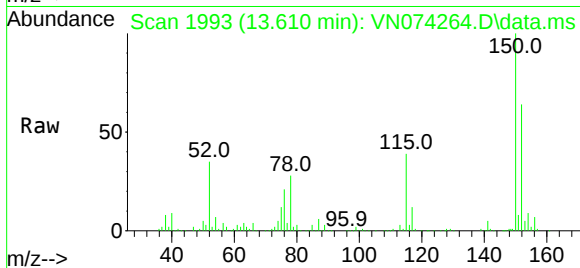
Tgt Ion:106 Resp: 2875
Ion Ratio Lower Upper
106 100
91 175.2 106.0 318.0



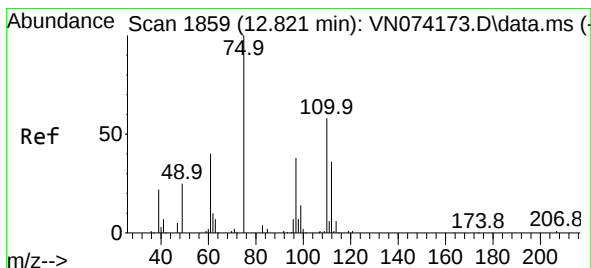
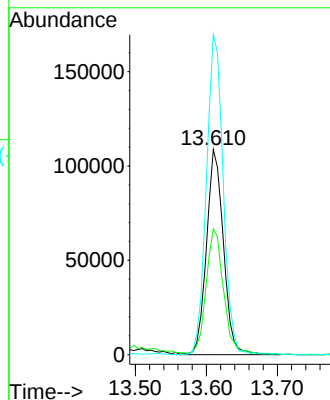
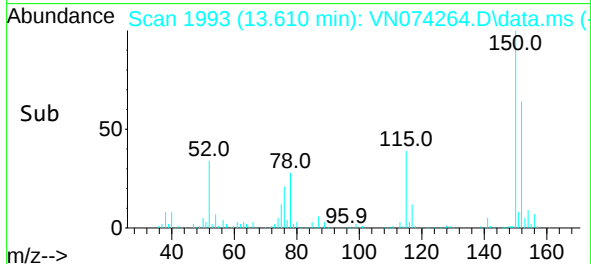


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.610 min Scan# 1993
 Delta R.T. -0.000 min
 Lab File: VN074264.D
 Acq: 02 Sep 2022 00:53

Instrument :
 MSVOA_N
 ClientSampleId :

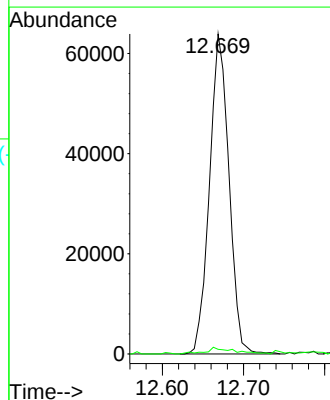
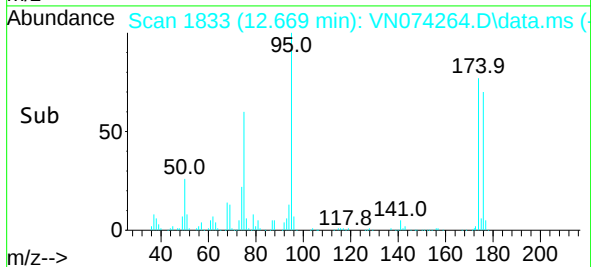
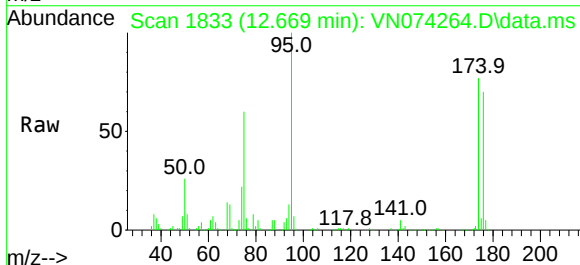


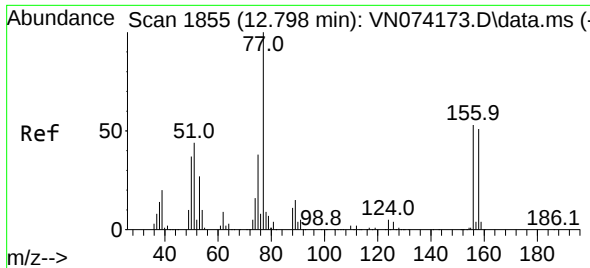
Tgt Ion:152 Resp: 181446
 Ion Ratio Lower Upper
 152 100
 115 63.5 28.9 86.7
 150 154.0 0.0 356.2



#76
 1,2,3-Trichloropropane
 Concen: 23.484 ug/l
 RT: 12.669 min Scan# 1833
 Delta R.T. -0.152 min
 Lab File: VN074264.D
 Acq: 02 Sep 2022 00:53

Tgt Ion: 75 Resp: 106448
 Ion Ratio Lower Upper
 75 100
 77 1.9 98.5 295.5#

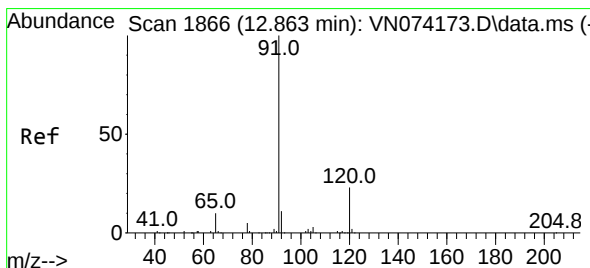
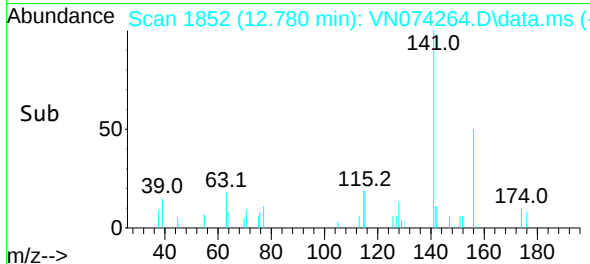
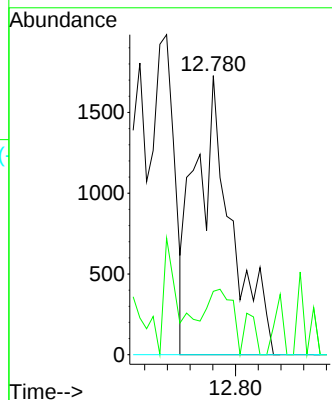
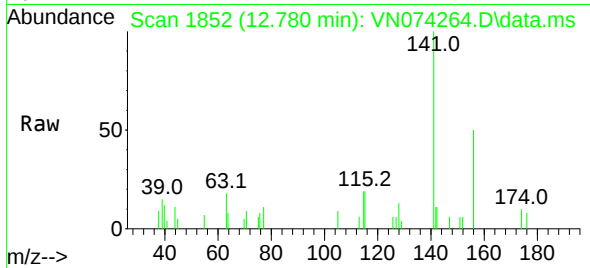




#77
Bromobenzene
Concen: 1.043 ug/l
RT: 12.780 min Scan# 1855
Delta R.T. -0.018 min
Lab File: VN074264.D
Acq: 02 Sep 2022 00:53

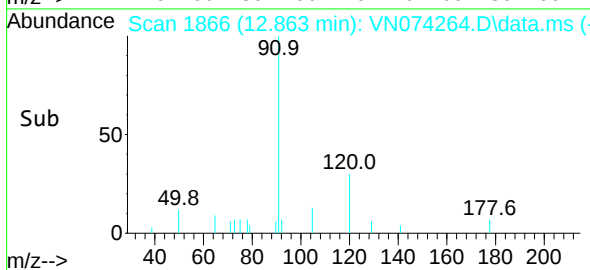
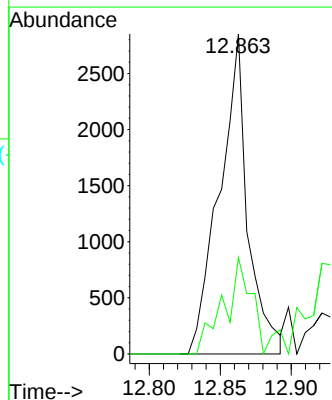
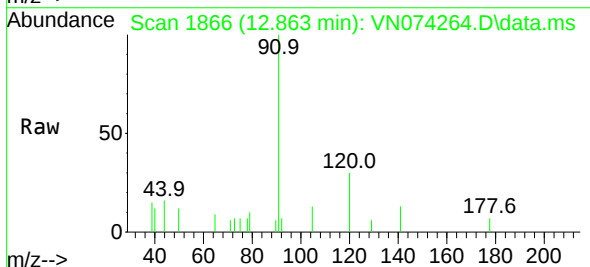
Instrument :
MSVOA_N
ClientSampleId :

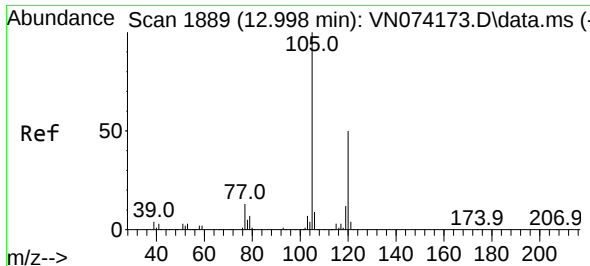
Tgt Ion:156 Resp: 3791
Ion Ratio Lower Upper
156 100
77 16.4 100.5 301.5#
158 0.0 48.9 146.6#



#78
n-propylbenzene
Concen: 0.222 ug/l
RT: 12.863 min Scan# 1866
Delta R.T. 0.000 min
Lab File: VN074264.D
Acq: 02 Sep 2022 00:53

Tgt Ion: 91 Resp: 3938
Ion Ratio Lower Upper
91 100
120 30.5 11.9 35.5

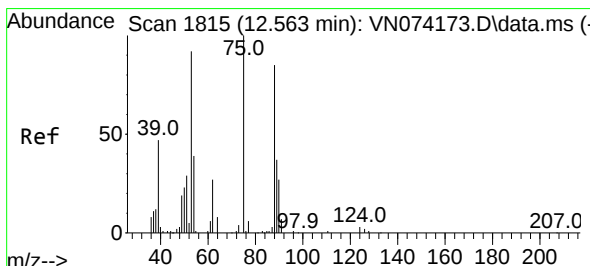
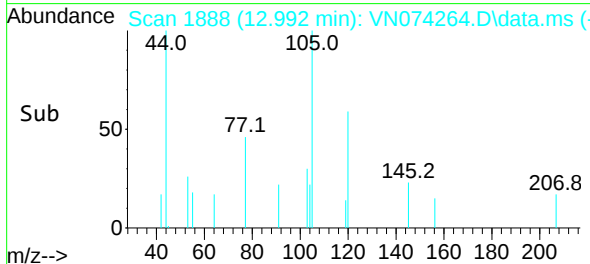
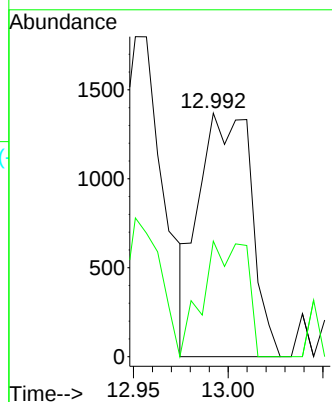
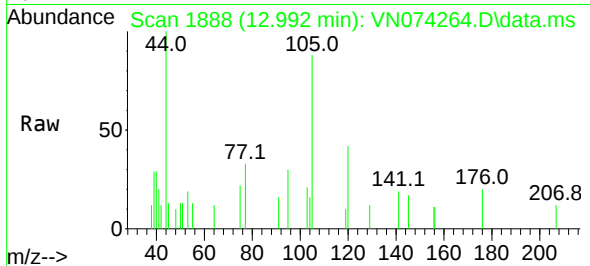




#80
 1,3,5-Trimethylbenzene
 Concen: 0.208 ug/l
 RT: 12.992 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: VN074264.D
 Acq: 02 Sep 2022 00:53

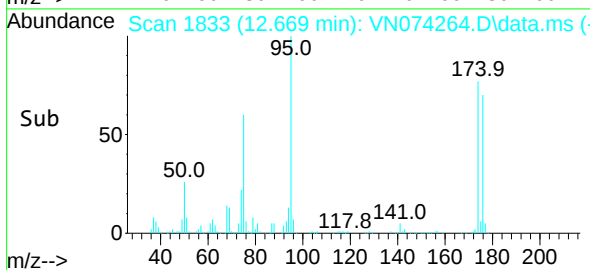
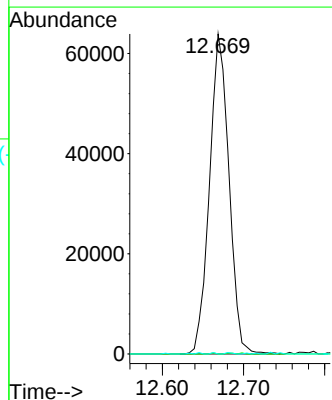
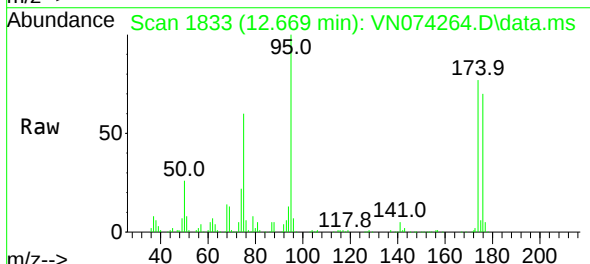
Instrument :
 MSVOA_N
 ClientSampleId :

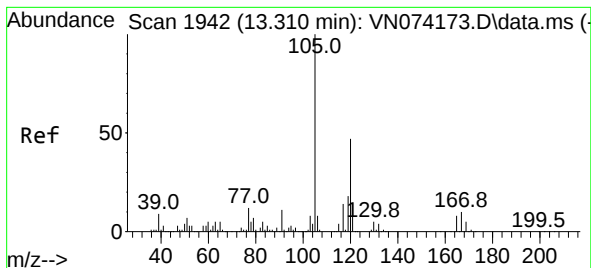
Tgt Ion:105 Resp: 2630
 Ion Ratio Lower Upper
 105 100
 120 39.8 24.9 74.7



#81
 trans-1,4-Dichloro-2-butene
 Concen: 60.894 ug/l
 RT: 12.669 min Scan# 1833
 Delta R.T. 0.106 min
 Lab File: VN074264.D
 Acq: 02 Sep 2022 00:53

Tgt Ion: 75 Resp: 106448
 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: 0.823 ug/l

RT: 13.304 min Scan# 1942

Delta R.T. -0.006 min

Lab File: VN074264.D

Acq: 02 Sep 2022 00:53

Instrument :

MSVOA_N

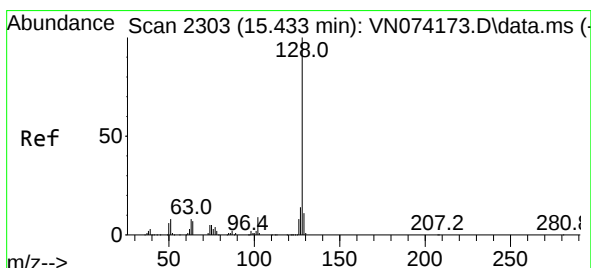
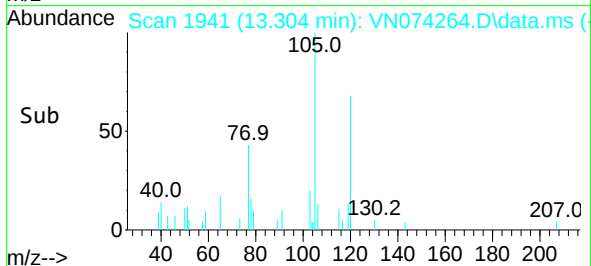
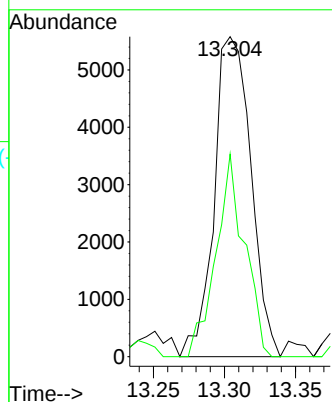
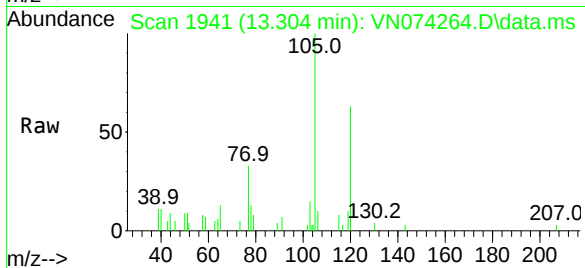
ClientSampleId :

Tgt Ion:105 Resp: 10033

Ion Ratio Lower Upper

105 100

120 49.3 23.3 69.8



#95

Naphthalene

Concen: 4.237 ug/l

RT: 15.433 min Scan# 2303

Delta R.T. 0.000 min

Lab File: VN074264.D

Acq: 02 Sep 2022 00:53

Tgt Ion:128 Resp: 43485

Ion Ratio Lower Upper

128 100

127 14.3 10.3 15.5

129 12.3 8.6 13.0

