

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022223\
 Data File : VN076780.D
 Acq On : 22 Feb 2023 18:52
 Operator : JC\MD
 Sample : 01655-08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 31948

Quant Time: Feb 22 23:59:42 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021323W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 14 01:44:47 2023
 Response via : Initial Calibration

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

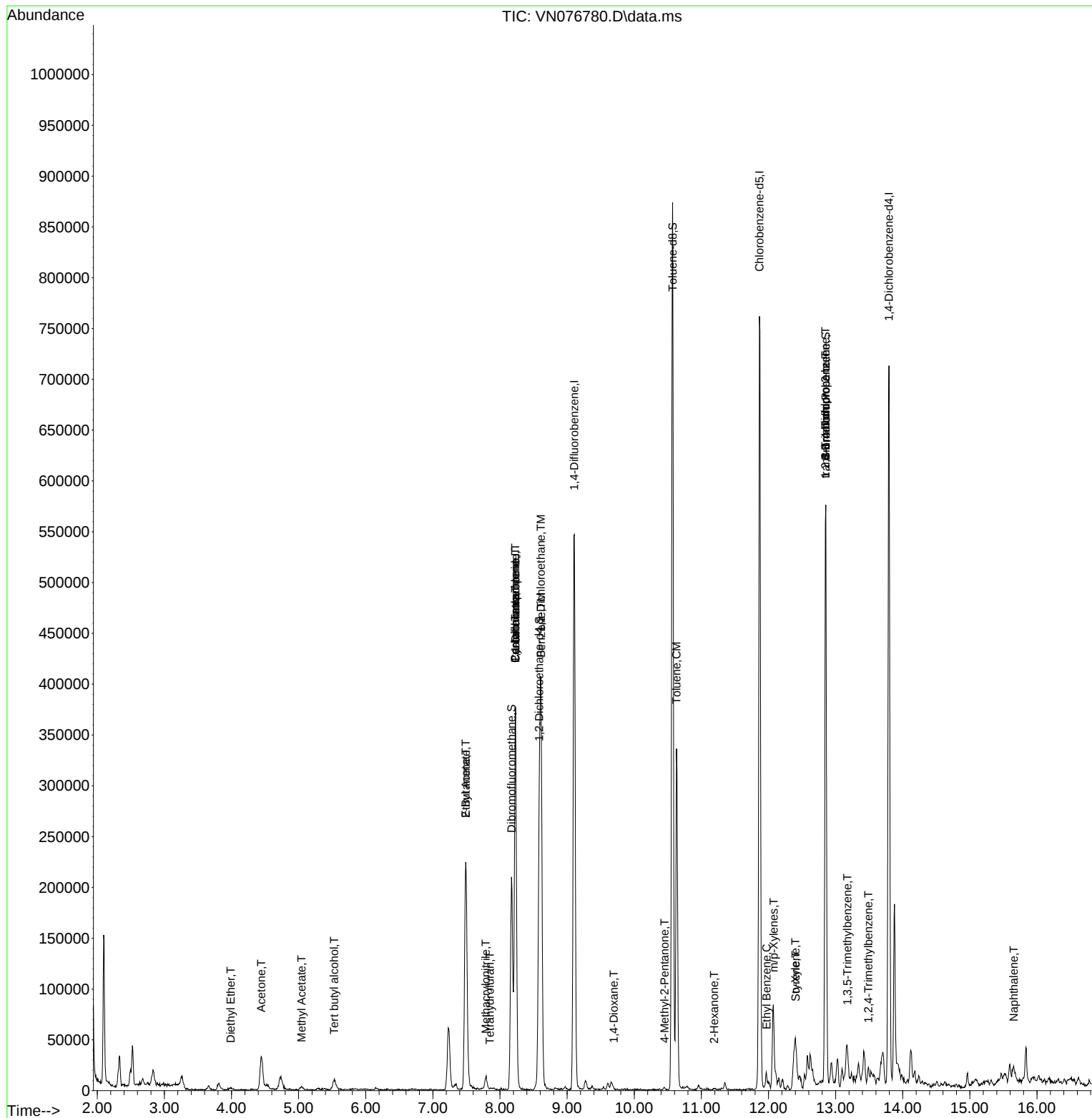
Internal Standards						
1) Pentafluorobenzene	8.230	168	257919	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	470762	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	414608	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	178712	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	186886	52.474	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.940%			
35) Dibromofluoromethane	8.172	113	144551	46.887	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 93.780%			
50) Toluene-d8	10.571	98	575873	50.018	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.040%			
62) 4-Bromofluorobenzene	12.854	95	179487	47.069	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 94.140%			
Target Compounds					Qvalue	
8) Diethyl Ether	3.989	74	1025	0.556	ug/l #	49
11) Tert butyl alcohol	5.531	59	15300	32.546	ug/l	99
16) Acetone	4.442	43	65671	41.280	ug/l	98
18) Methyl Acetate	5.042	43	3594	0.692	ug/l #	87
25) 2-Butanone	7.489	43	386068	164.518	ug/l	93
29) Tetrahydrofuran	7.848	42	822	0.536	ug/l #	48
31) Cyclohexane	8.230	56	10180	1.822	ug/l #	34
36) 1,1-Dichloropropene	8.230	75	24077	5.405	ug/l #	51
37) Ethyl Acetate	7.489	43	386068	82.378	ug/l #	71
38) Carbon Tetrachloride	8.230	117	26422	5.880	ug/l #	15
40) Benzene	8.613	78	334986	24.489	ug/l	97
41) Methacrylonitrile	7.789	41	2326	0.857	ug/l #	49
42) 1,2-Dichloroethane	8.607	62	3729	0.782	ug/l	89
49) 1,4-Dioxane	9.695	88	168	2.684	ug/l #	23
51) 4-Methyl-2-Pentanone	10.454	43	1291	0.266	ug/l	94
52) Toluene	10.630	92	138858	16.814	ug/l	98
59) 2-Hexanone	11.189	43	1733	0.495	ug/l	80
67) Ethyl Benzene	11.971	91	9867	0.659	ug/l	100
68) m/p-Xylenes	12.077	106	22257	3.857	ug/l	98
69) o-Xylene	12.401	106	7190	1.278	ug/l	97
70) Styrene	12.407	104	2572	0.283	ug/l #	34
71) Bromoform	12.854	173	2204	0.941	ug/l #	1
76) 1,2,3-Trichloropropane	12.848	75	105224	29.123	ug/l #	1
80) 1,3,5-Trimethylbenzene	13.177	105	3846	0.355	ug/l	87
81) trans-1,4-Dichloro-2-b...	12.848	75	105224	84.824	ug/l #	4
84) 1,2,4-Trimethylbenzene	13.489	105	8305	0.770	ug/l	98
95) Naphthalene	15.653	128	10656	1.112	ug/l #	87

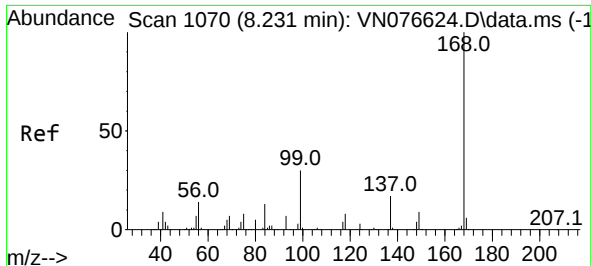
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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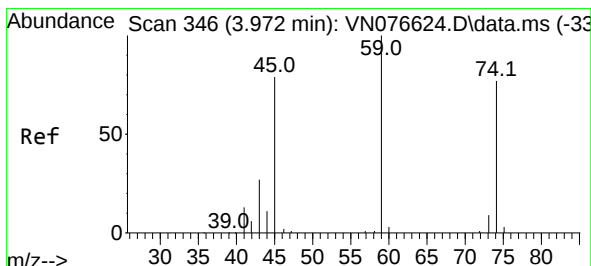
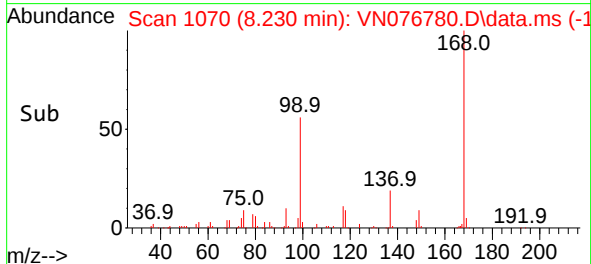
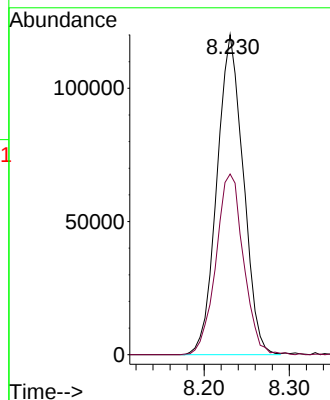
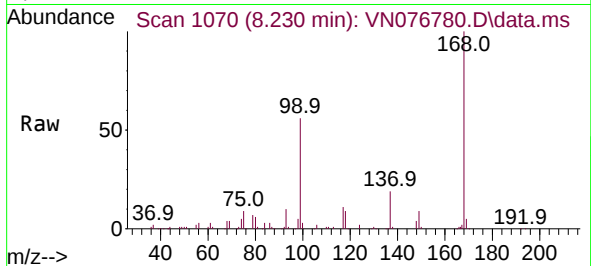




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 11
Delta R.T. -0.001 min
Lab File: VN076780.D
Acq: 22 Feb 2023 18:52

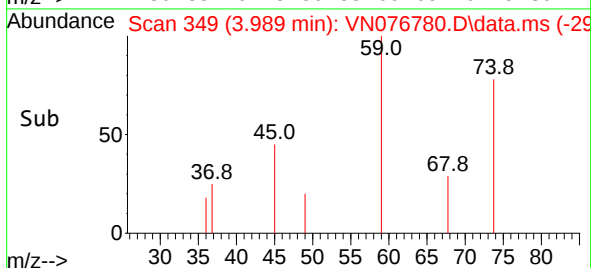
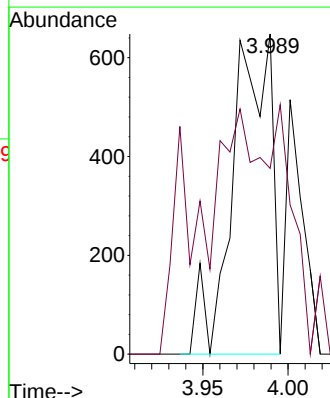
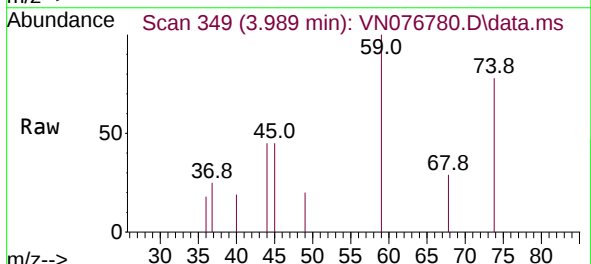
Instrument :
MSVOA_N
ClientSampleId :
31948

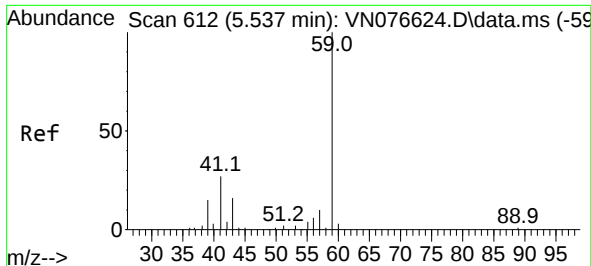
Tgt Ion:168 Resp: 257919
Ion Ratio Lower Upper
168 100
99 56.5 44.8 67.2



#8
Diethyl Ether
Concen: 0.556 ug/l
RT: 3.989 min Scan# 349
Delta R.T. 0.017 min
Lab File: VN076780.D
Acq: 22 Feb 2023 18:52

Tgt Ion: 74 Resp: 1025
Ion Ratio Lower Upper
74 100
45 50.5 51.3 153.9#





#11

Tert butyl alcohol

Concen: 32.546 ug/l

RT: 5.531 min Scan# 611

Delta R.T. -0.006 min

Lab File: VN076780.D

Acq: 22 Feb 2023 18:52

Instrument :

MSVOA_N

ClientSampleId :

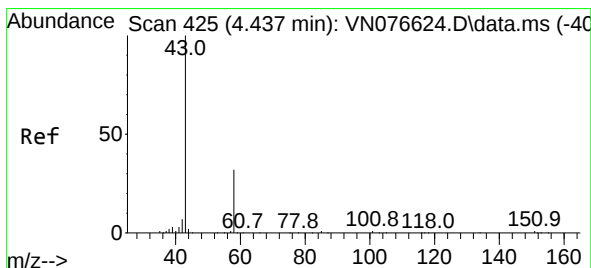
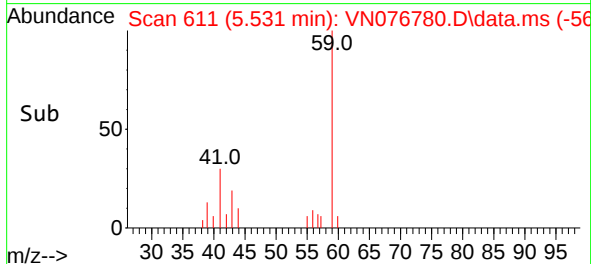
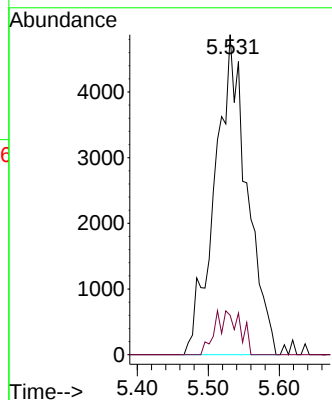
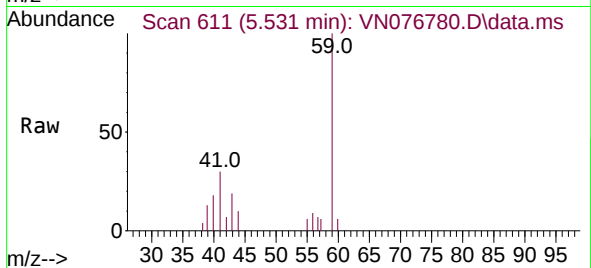
31948

Tgt Ion: 59 Resp: 15300

Ion Ratio Lower Upper

59 100

57 10.6 8.7 13.1



#16

Acetone

Concen: 41.280 ug/l

RT: 4.442 min Scan# 426

Delta R.T. 0.005 min

Lab File: VN076780.D

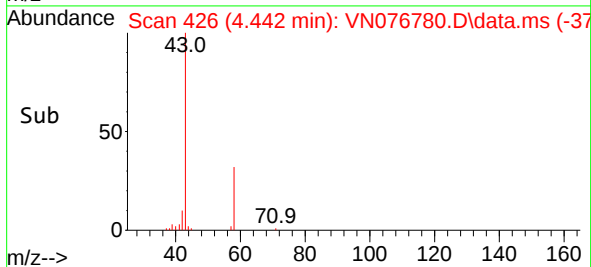
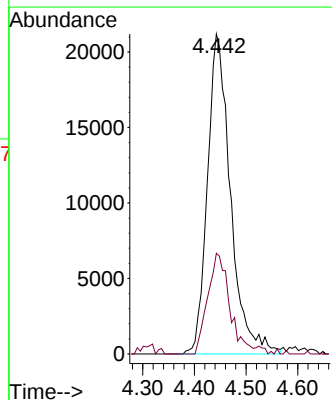
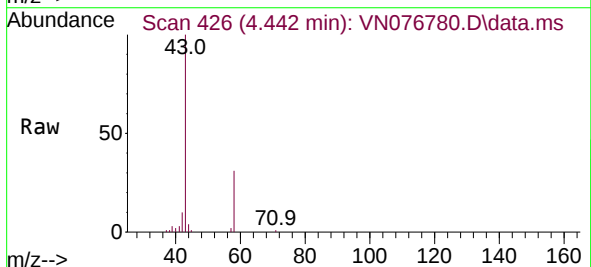
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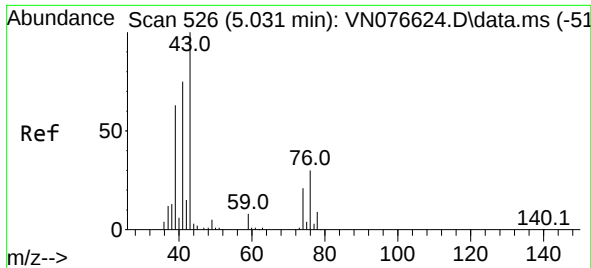
Tgt Ion: 43 Resp: 65671

Ion Ratio Lower Upper

43 100

58 31.4 25.9 38.9

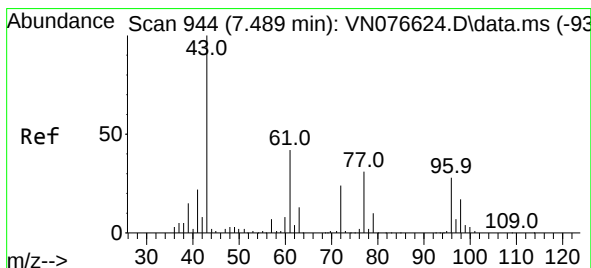
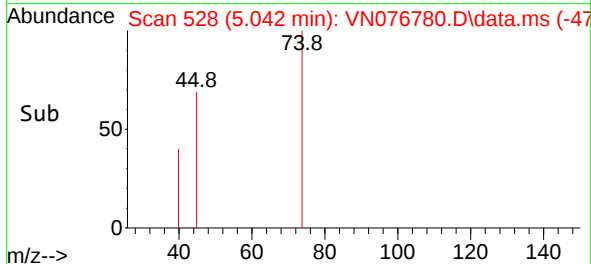
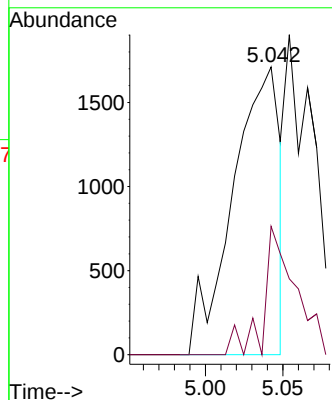
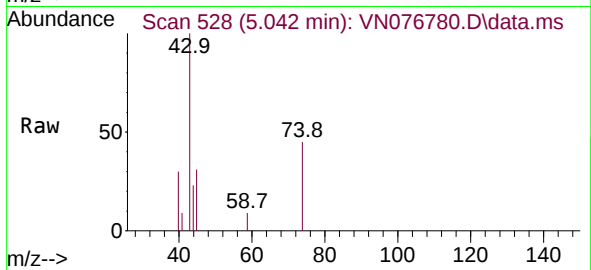




#18
Methyl Acetate
Concen: 0.692 ug/l
RT: 5.042 min Scan# 51
Delta R.T. 0.011 min
Lab File: VN076780.D
Acq: 22 Feb 2023 18:52

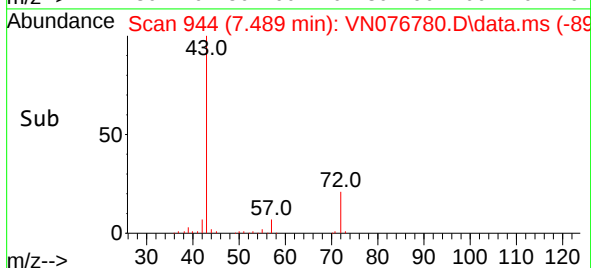
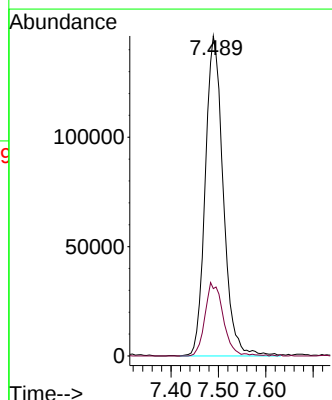
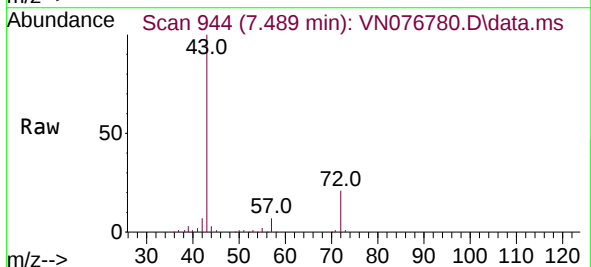
Instrument :
MSVOA_N
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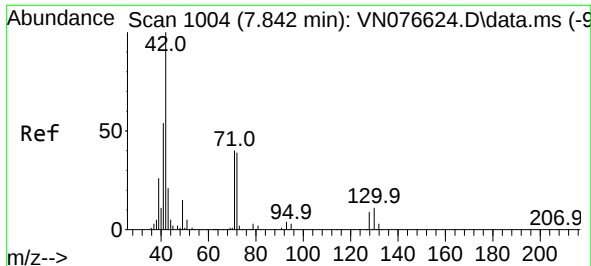
Tgt Ion: 43 Resp: 3594
Ion Ratio Lower Upper
43 100
74 28.2 17.7 26.5#



#25
2-Butanone
Concen: 164.518 ug/l
RT: 7.489 min Scan# 944
Delta R.T. 0.000 min
Lab File: VN076780.D
Acq: 22 Feb 2023 18:52

Tgt Ion: 43 Resp: 386068
Ion Ratio Lower Upper
43 100
72 21.1 19.4 29.2





#29

Tetrahydrofuran

Concen: 0.536 ug/l

RT: 7.848 min Scan# 1005

Delta R.T. 0.006 min

Lab File: VN076780.D

Acq: 22 Feb 2023 18:52

Instrument :

MSVOA_N

ClientSampleId :

31948

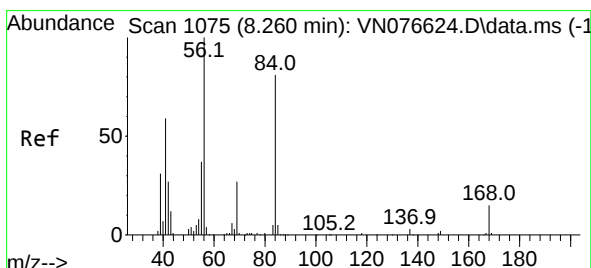
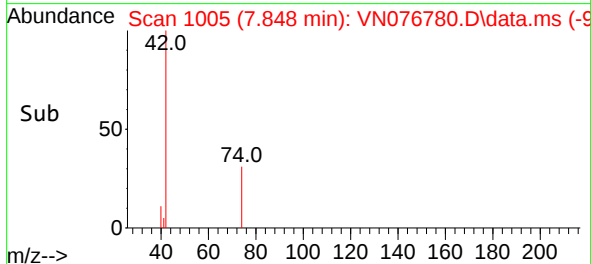
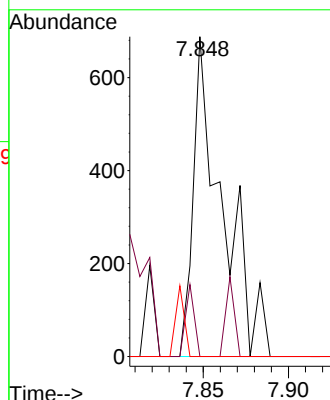
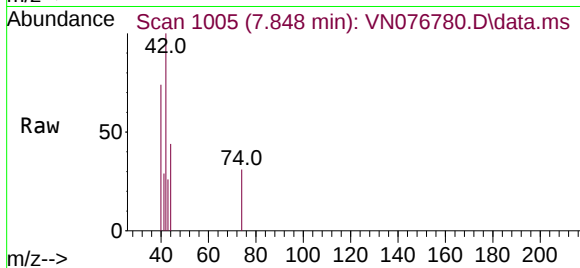
Tgt Ion: 42 Resp: 822

Ion Ratio Lower Upper

42 100

72 6.7 31.5 47.3#

71 6.6 29.8 44.8#



#31

Cyclohexane

Concen: 1.822 ug/l

RT: 8.230 min Scan# 1070

Delta R.T. -0.030 min

Lab File: VN076780.D

Acq: 22 Feb 2023 18:52

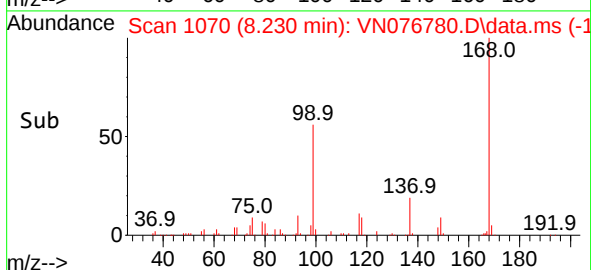
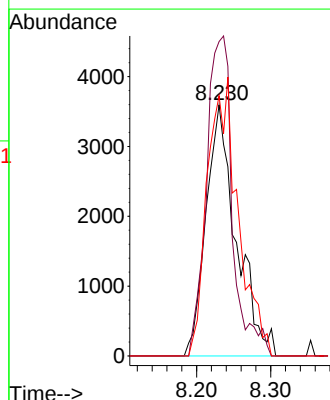
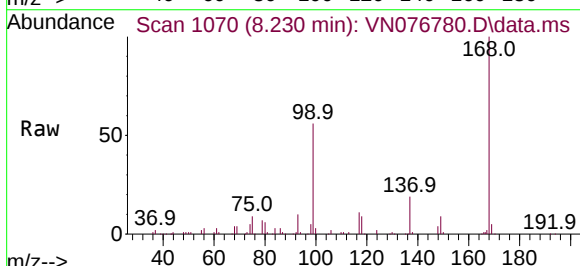
Tgt Ion: 56 Resp: 10180

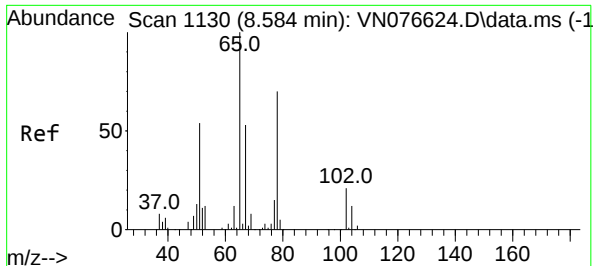
Ion Ratio Lower Upper

56 100

69 125.2 21.6 32.4#

84 103.6 65.1 97.7#





#33

1,2-Dichloroethane-d4

Concen: 52.474 ug/l

RT: 8.583 min Scan# 1130

Delta R.T. -0.001 min

Lab File: VN076780.D

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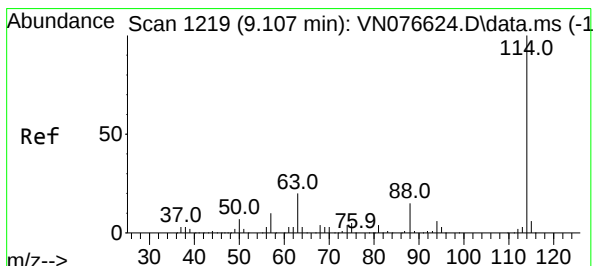
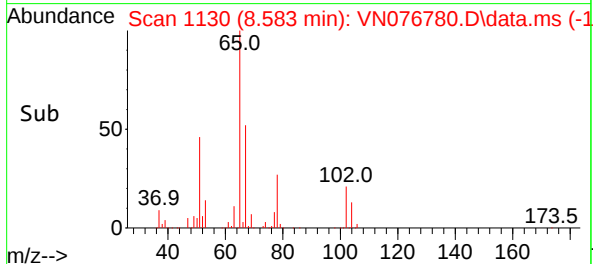
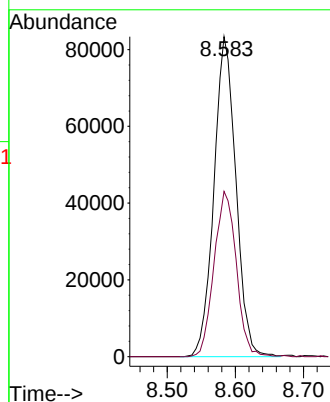
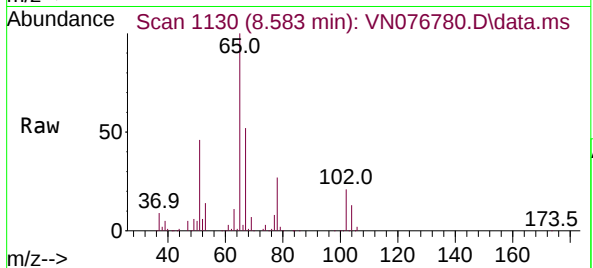
31948

Tgt Ion: 65 Resp: 186886

Ion Ratio Lower Upper

65 100

67 52.3 0.0 105.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.107 min Scan# 1219

Delta R.T. -0.000 min

Lab File: VN076780.D

Acq: 22 Feb 2023 18:52

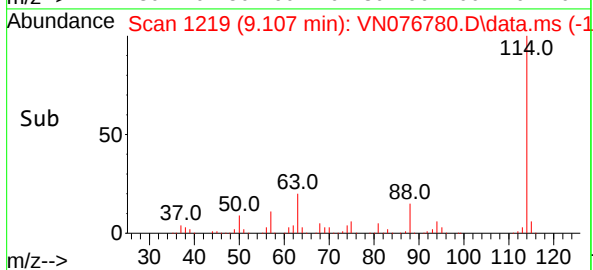
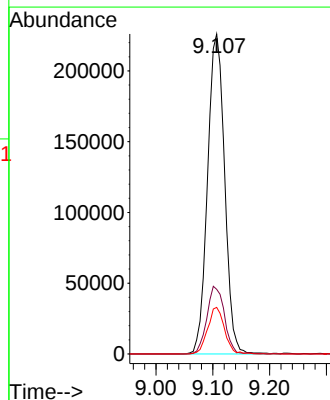
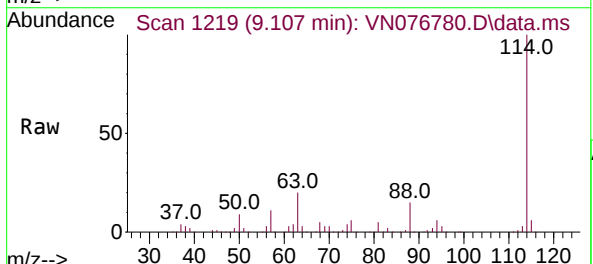
Tgt Ion: 114 Resp: 470762

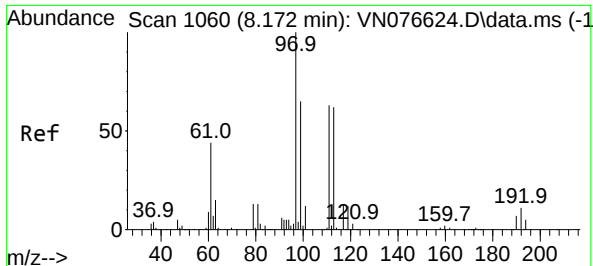
Ion Ratio Lower Upper

114 100

63 20.2 0.0 40.0

88 14.5 0.0 29.6

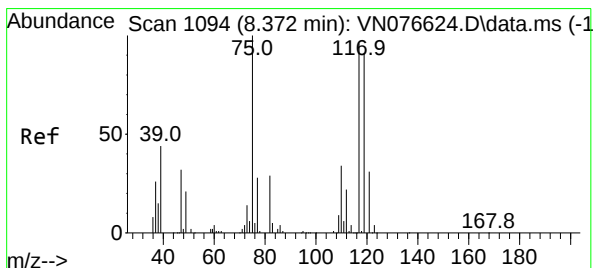
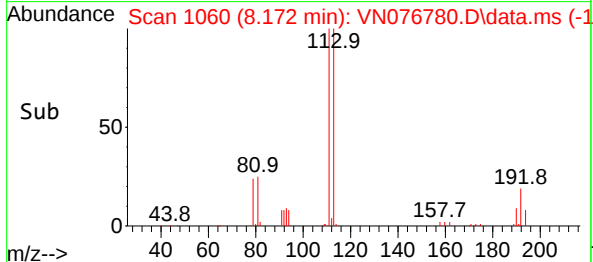
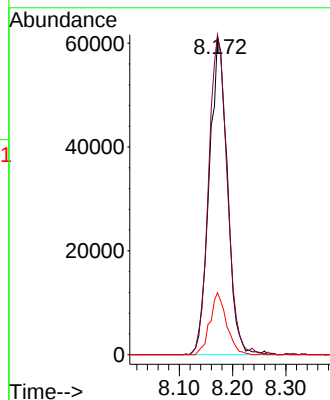
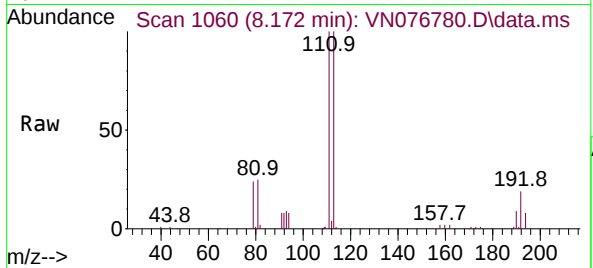




#35
Dibromofluoromethane
Concen: 46.887 ug/l
RT: 8.172 min Scan# 1060
Delta R.T. -0.000 min
Lab File: VN076780.D
Acq: 22 Feb 2023 18:52

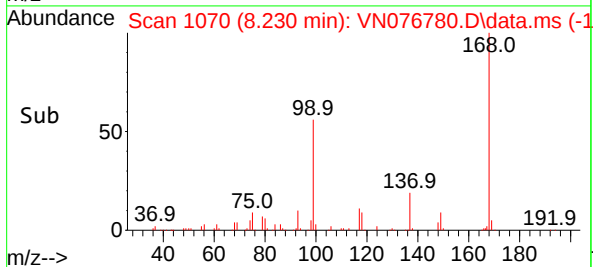
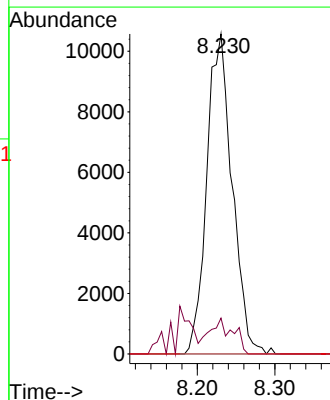
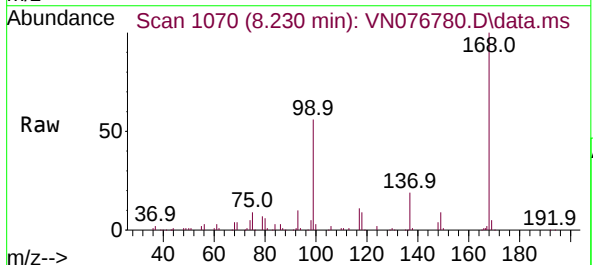
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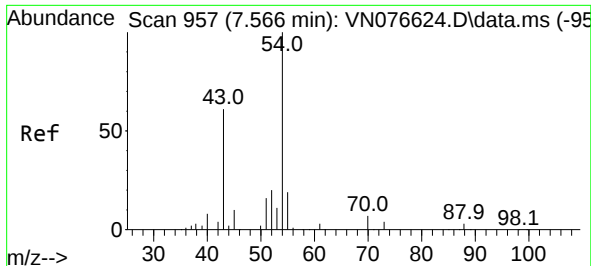
Tgt Ion:113 Resp: 144551
Ion Ratio Lower Upper
113 100
111 103.3 83.1 124.7
192 17.9 15.6 23.4



#36
1,1-Dichloropropene
Concen: 5.405 ug/l
RT: 8.230 min Scan# 1070
Delta R.T. -0.142 min
Lab File: VN076780.D
Acq: 22 Feb 2023 18:52

Tgt Ion: 75 Resp: 24077
Ion Ratio Lower Upper
75 100
110 10.6 17.5 52.5#
77 0.0 24.5 36.7#

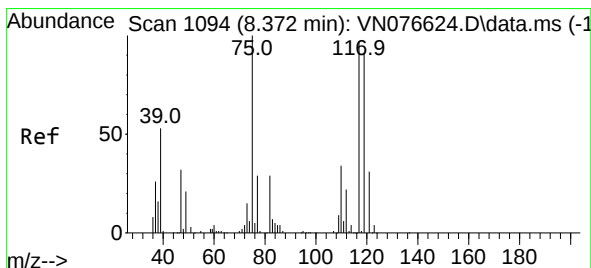
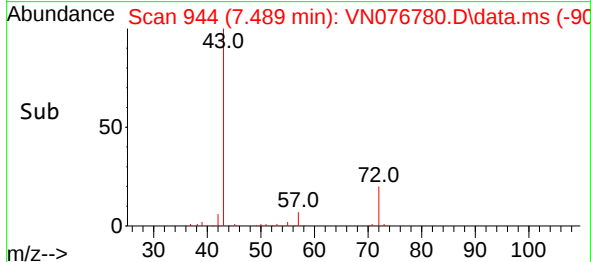
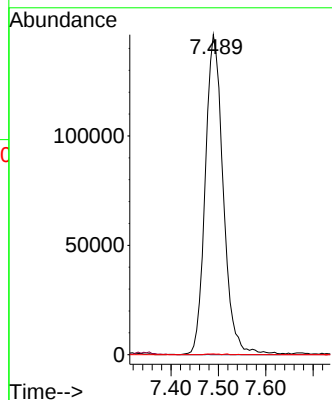
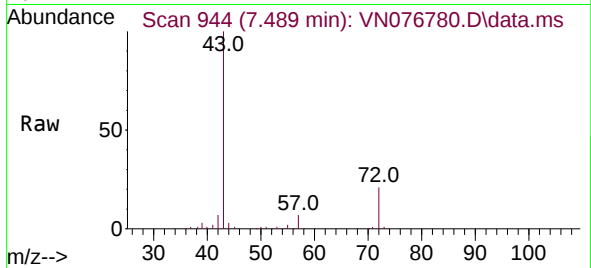




#37
Ethyl Acetate
Concen: 82.378 ug/l
RT: 7.489 min Scan# 94
Delta R.T. -0.077 min
Lab File: VN076780.D
Acq: 22 Feb 2023 18:52

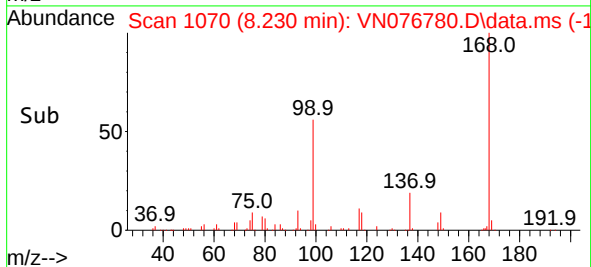
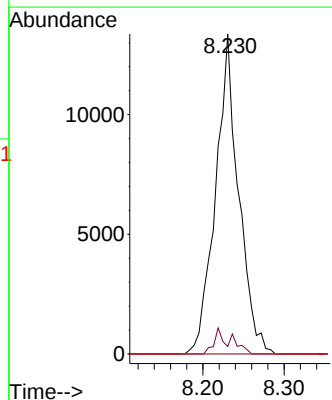
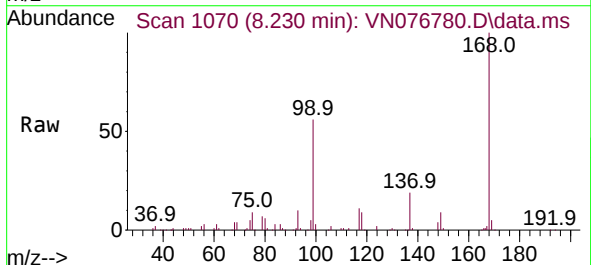
Instrument :
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ClientSampleId :
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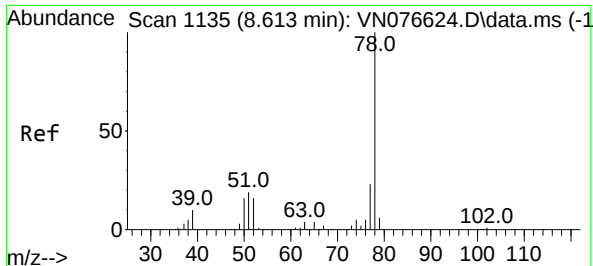
Tgt Ion: 43 Resp: 386068
Ion Ratio Lower Upper
43 100
61 0.0 9.9 14.9#
70 0.2 7.8 11.6#



#38
Carbon Tetrachloride
Concen: 5.880 ug/l
RT: 8.230 min Scan# 1070
Delta R.T. -0.142 min
Lab File: VN076780.D
Acq: 22 Feb 2023 18:52

Tgt Ion: 117 Resp: 26422
Ion Ratio Lower Upper
117 100
119 2.4 75.4 113.0#
121 0.0 26.0 39.0#

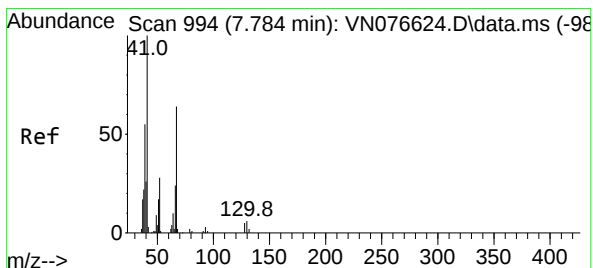
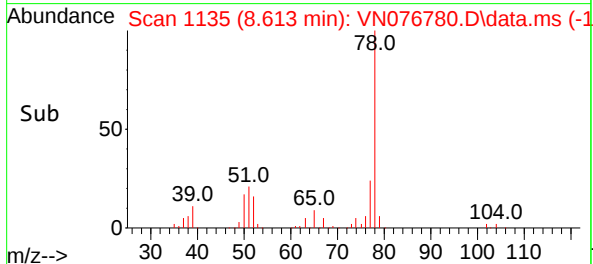
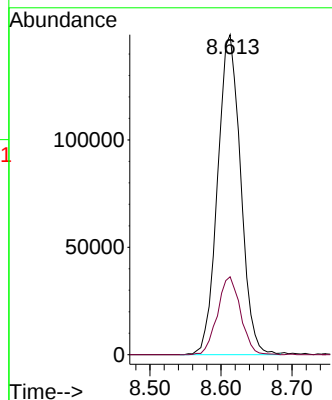
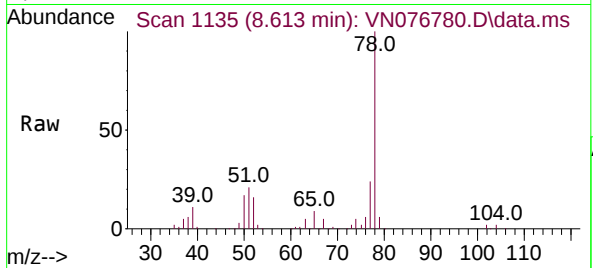




#40
Benzene
Concen: 24.489 ug/l
RT: 8.613 min Scan# 1135
Delta R.T. -0.000 min
Lab File: VN076780.D
Acq: 22 Feb 2023 18:52

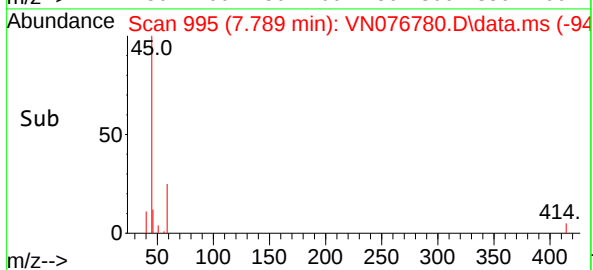
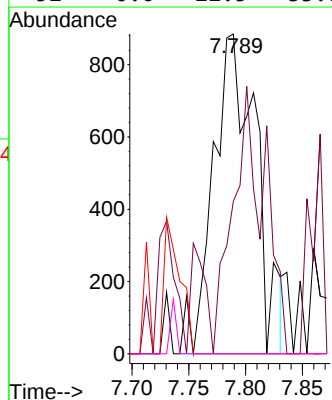
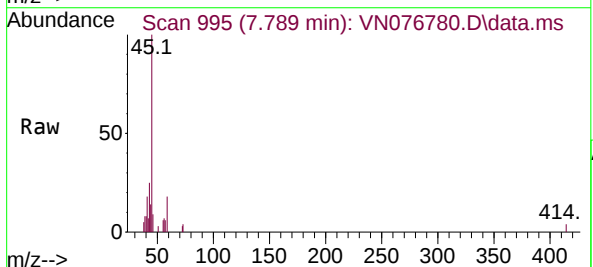
Instrument :
MSVOA_N
ClientSampleId :
31948

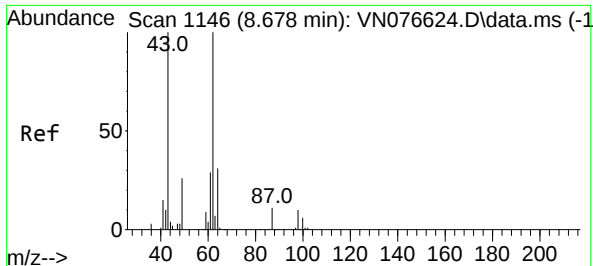
Tgt Ion: 78 Resp: 334986
Ion Ratio Lower Upper
78 100
77 24.4 18.2 27.4



#41
Methacrylonitrile
Concen: 0.857 ug/l
RT: 7.789 min Scan# 995
Delta R.T. 0.005 min
Lab File: VN076780.D
Acq: 22 Feb 2023 18:52

Tgt Ion: 41 Resp: 2326
Ion Ratio Lower Upper
41 100
39 44.8 42.6 63.8
67 0.0 51.4 77.0#
52 0.0 22.5 33.7#

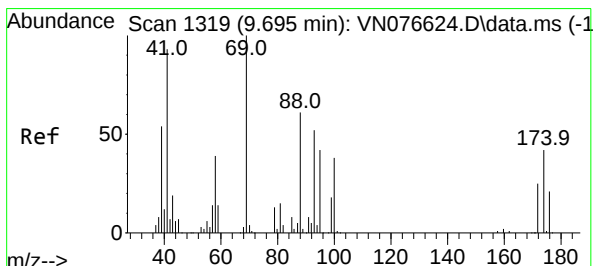
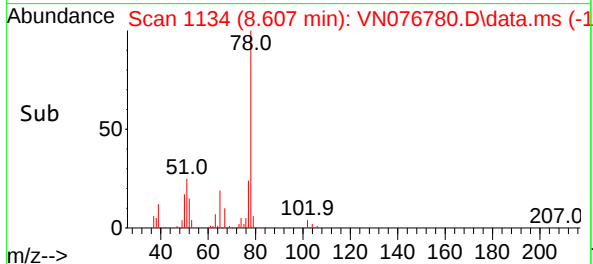
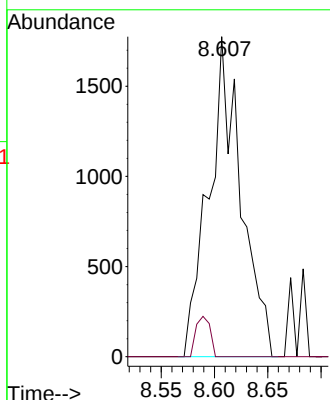
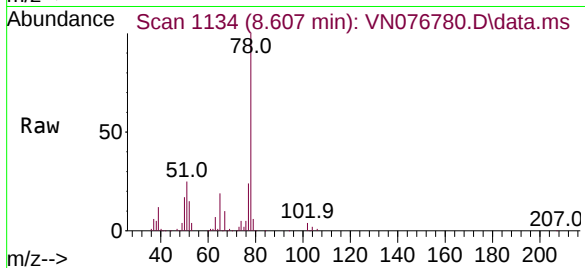




#42
1,2-Dichloroethane
Concen: 0.782 ug/l
RT: 8.607 min Scan# 1146
Delta R.T. -0.071 min
Lab File: VN076780.D
Acq: 22 Feb 2023 18:52

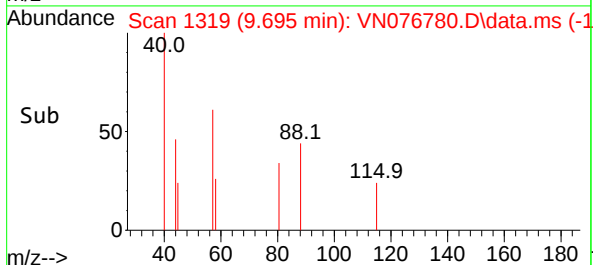
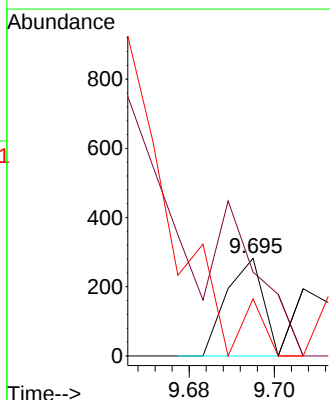
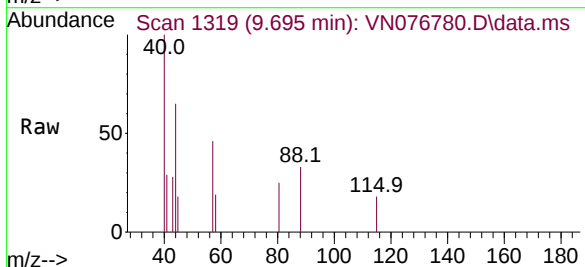
Instrument :
MSVOA_N
ClientSampleId :
31948

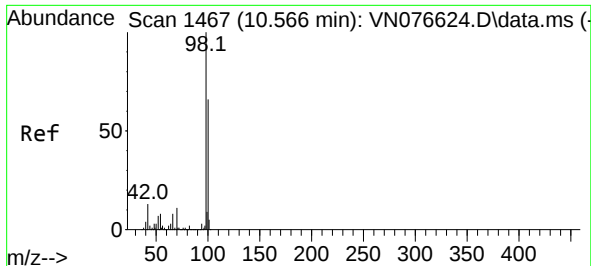
Tgt Ion: 62 Resp: 3729
Ion Ratio Lower Upper
62 100
98 5.6 0.0 19.2



#49
1,4-Dioxane
Concen: 2.684 ug/l
RT: 9.695 min Scan# 1319
Delta R.T. 0.000 min
Lab File: VN076780.D
Acq: 22 Feb 2023 18:52

Tgt Ion: 88 Resp: 168
Ion Ratio Lower Upper
88 100
43 0.0 22.6 33.8#
58 0.0 57.6 86.4#

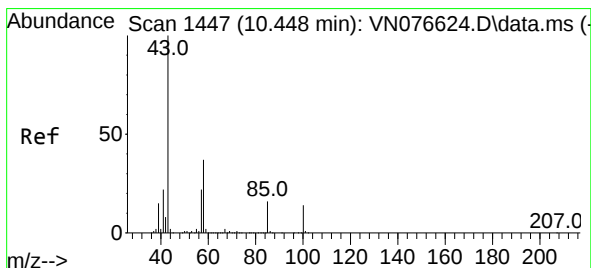
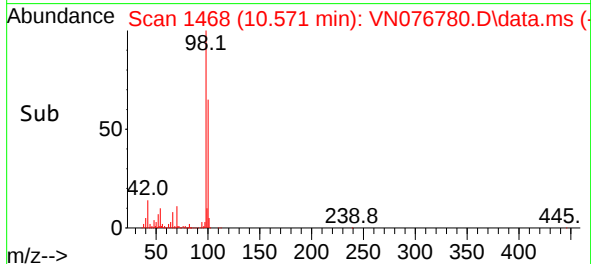
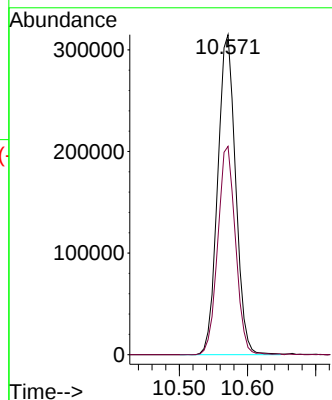
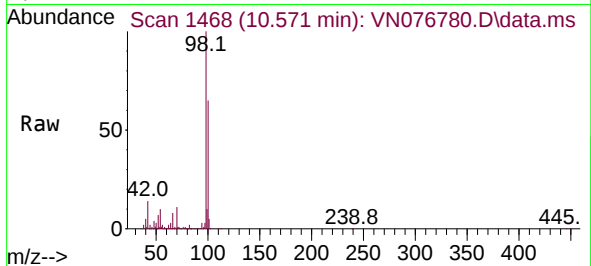




#50
Toluene-d8
Concen: 50.018 ug/l
RT: 10.571 min Scan# 1467
Delta R.T. 0.005 min
Lab File: VN076780.D
Acq: 22 Feb 2023 18:52

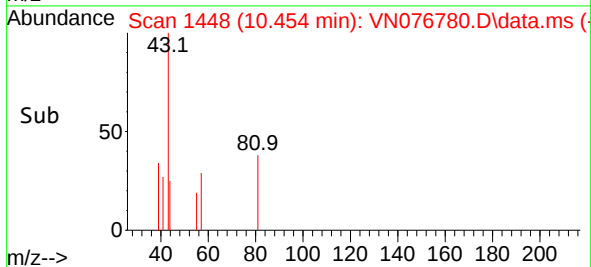
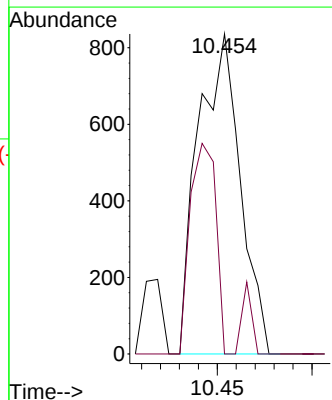
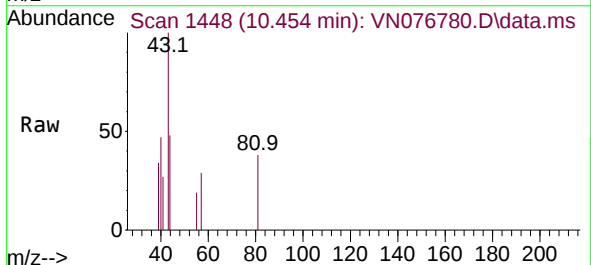
Instrument :
MSVOA_N
ClientSampleId :
31948

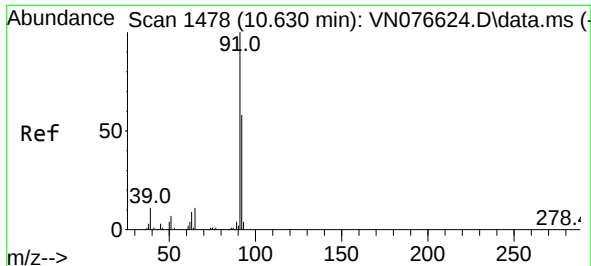
Tgt Ion: 98 Resp: 575873
Ion Ratio Lower Upper
98 100
100 64.4 52.9 79.3



#51
4-Methyl-2-Pentanone
Concen: 0.266 ug/l
RT: 10.454 min Scan# 1448
Delta R.T. 0.006 min
Lab File: VN076780.D
Acq: 22 Feb 2023 18:52

Tgt Ion: 43 Resp: 1291
Ion Ratio Lower Upper
43 100
58 40.3 29.5 44.3

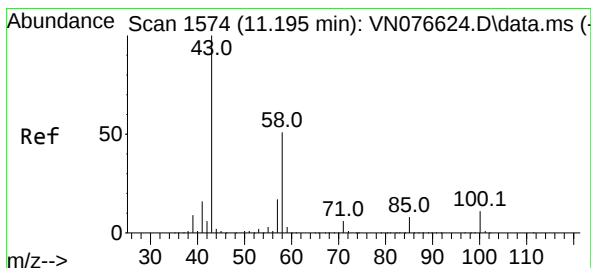
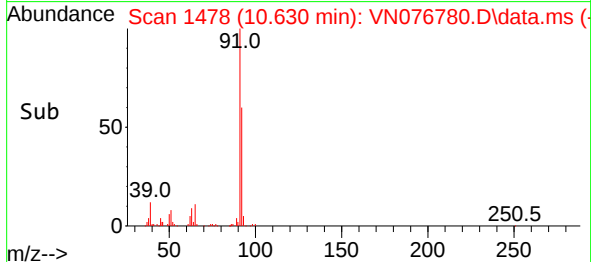
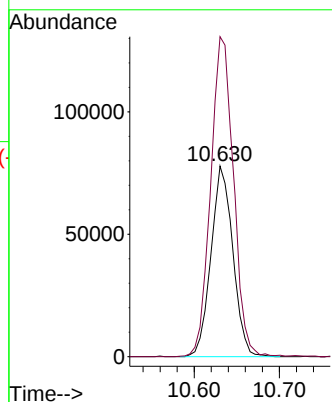
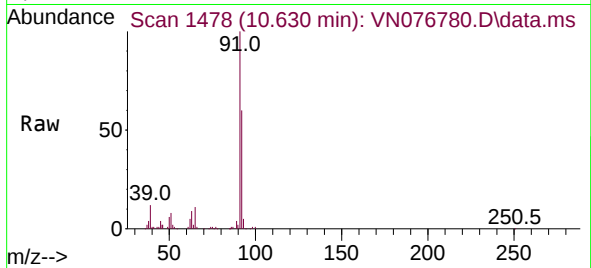




#52
Toluene
Concen: 16.814 ug/l
RT: 10.630 min Scan# 1478
Delta R.T. 0.000 min
Lab File: VN076780.D
Acq: 22 Feb 2023 18:52

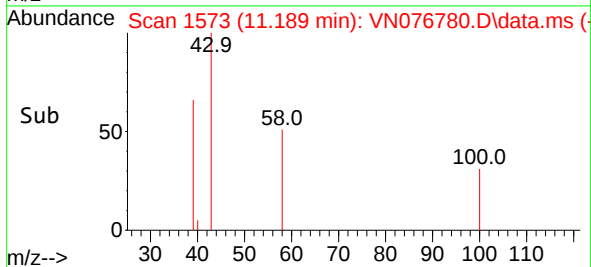
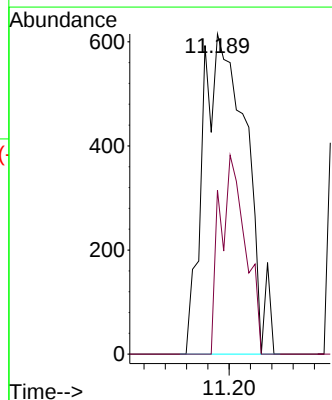
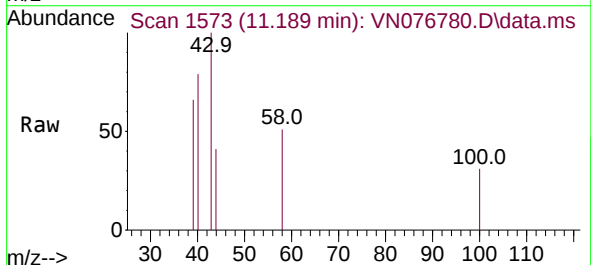
Instrument :
MSVOA_N
ClientSampleId :
31948

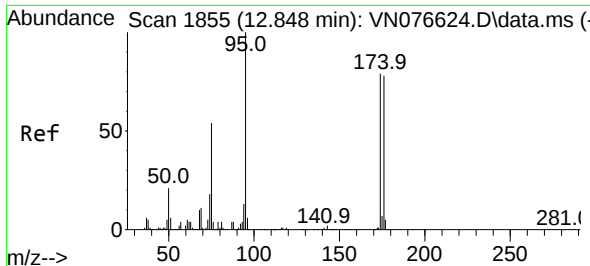
Tgt Ion: 92 Resp: 138858
Ion Ratio Lower Upper
92 100
91 175.5 138.0 207.0



#59
2-Hexanone
Concen: 0.495 ug/l
RT: 11.189 min Scan# 1573
Delta R.T. -0.006 min
Lab File: VN076780.D
Acq: 22 Feb 2023 18:52

Tgt Ion: 43 Resp: 1733
Ion Ratio Lower Upper
43 100
58 36.6 25.4 76.0

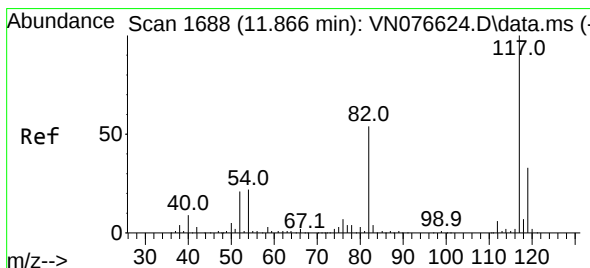
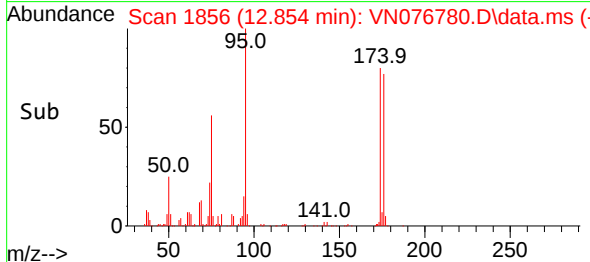
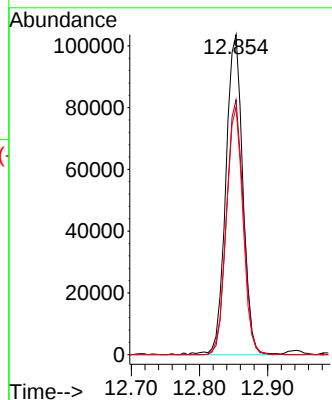
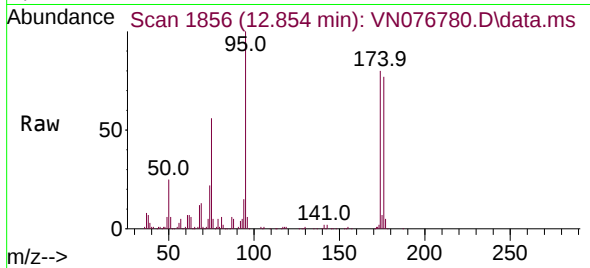




#62
4-Bromofluorobenzene
Concen: 47.069 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN076780.D
Acq: 22 Feb 2023 18:52

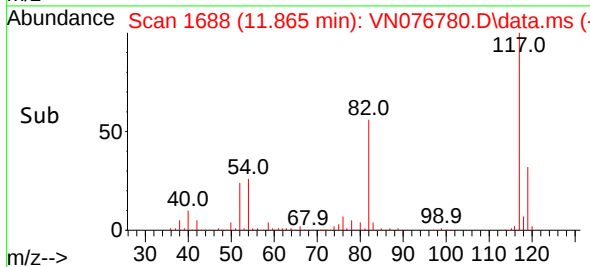
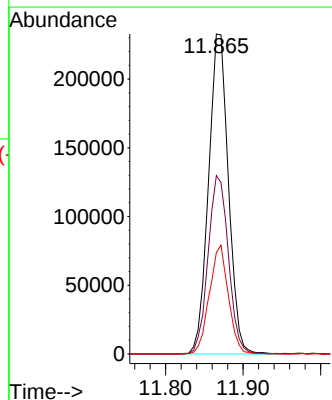
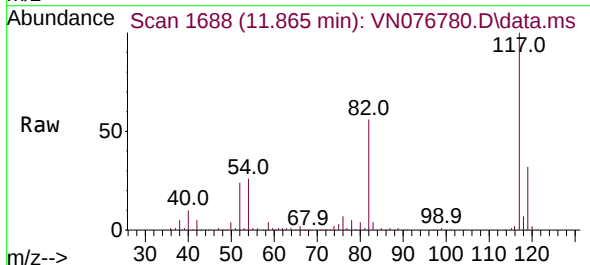
Instrument :
MSVOA_N
ClientSampleId :
31948

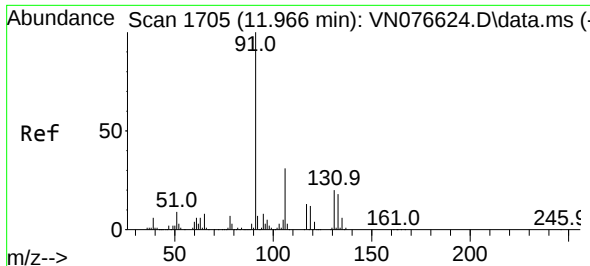
Tgt Ion: 95 Resp: 179487
Ion Ratio Lower Upper
95 100
174 79.0 0.0 169.2
176 75.5 0.0 163.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1688
Delta R.T. -0.001 min
Lab File: VN076780.D
Acq: 22 Feb 2023 18:52

Tgt Ion: 117 Resp: 414608
Ion Ratio Lower Upper
117 100
82 55.8 43.4 65.2
119 31.7 26.1 39.1

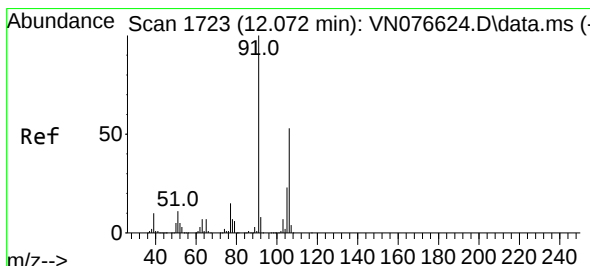
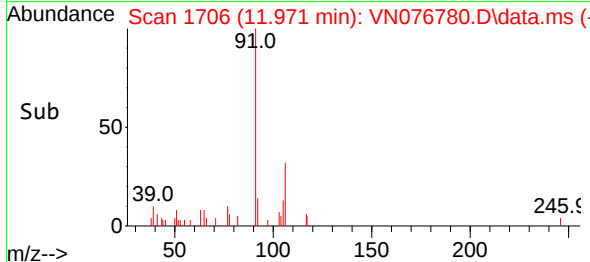
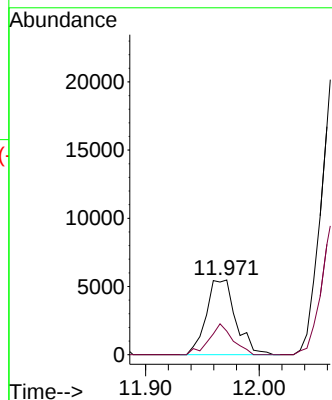
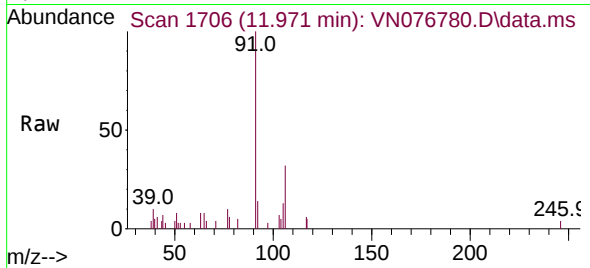




#67
Ethyl Benzene
Concen: 0.659 ug/l
RT: 11.971 min Scan# 11948
Delta R.T. 0.005 min
Lab File: VN076780.D
Acq: 22 Feb 2023 18:52

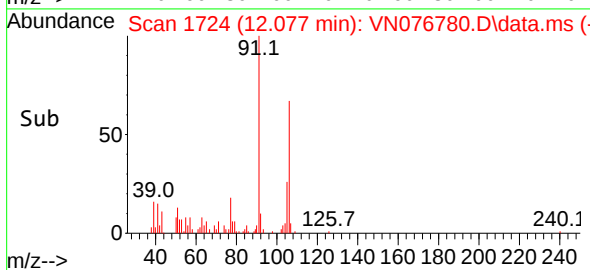
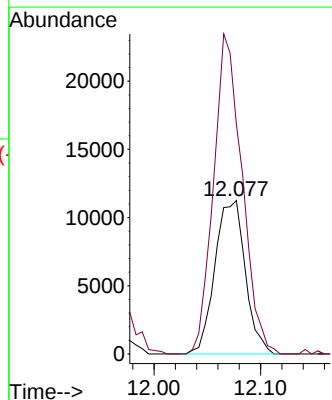
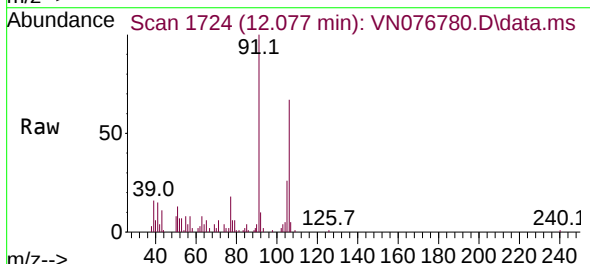
Instrument :
MSVOA_N
ClientSampleId :
31948

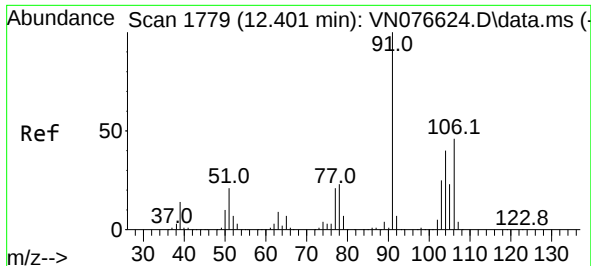
Tgt Ion: 91 Resp: 9867
Ion Ratio Lower Upper
91 100
106 31.6 25.1 37.7



#68
m/p-Xylenes
Concen: 3.857 ug/l
RT: 12.077 min Scan# 1724
Delta R.T. 0.005 min
Lab File: VN076780.D
Acq: 22 Feb 2023 18:52

Tgt Ion:106 Resp: 22257
Ion Ratio Lower Upper
106 100
91 196.1 154.7 232.1

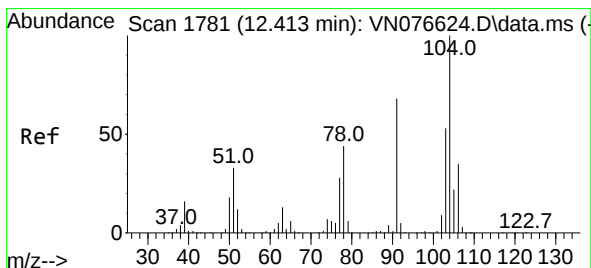
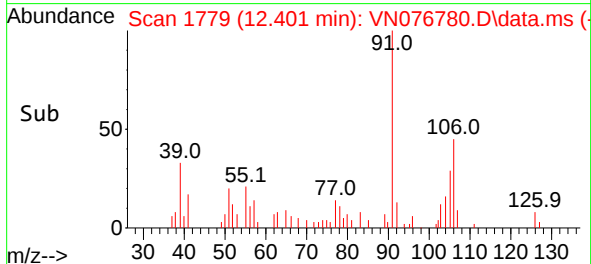
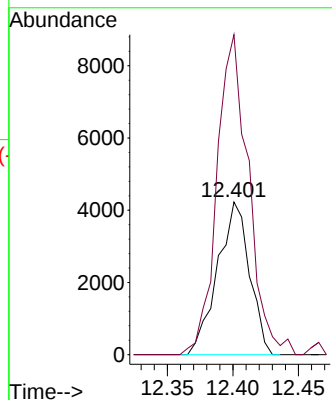
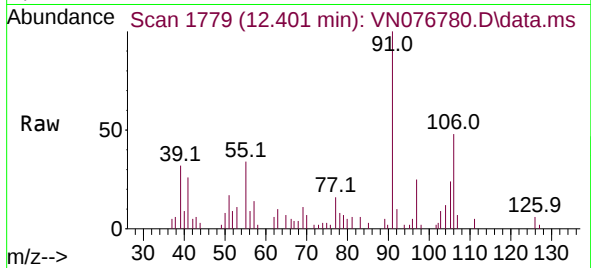




#69
o-Xylene
Concen: 1.278 ug/l
RT: 12.401 min Scan# 1779
Delta R.T. -0.000 min
Lab File: VN076780.D
Acq: 22 Feb 2023 18:52

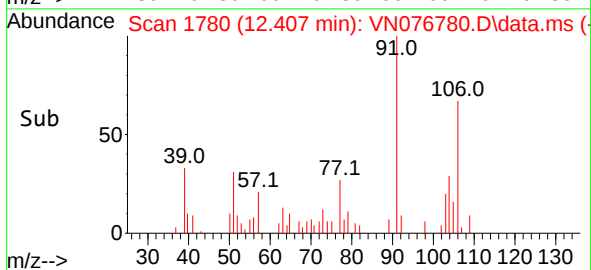
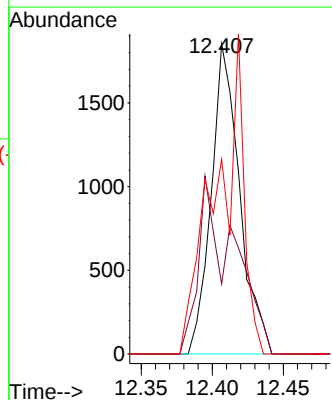
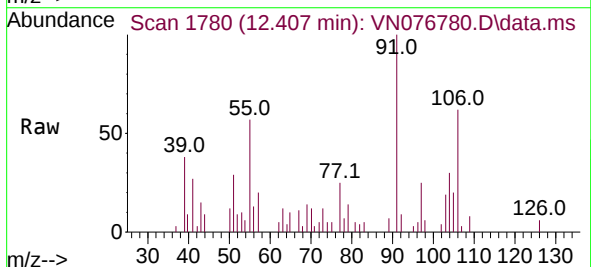
Instrument :
MSVOA_N
ClientSampleId :
31948

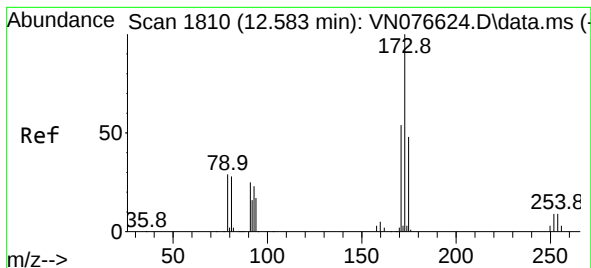
Tgt Ion:106 Resp: 7190
Ion Ratio Lower Upper
106 100
91 207.2 105.8 317.4



#70
Styrene
Concen: 0.283 ug/l
RT: 12.407 min Scan# 1780
Delta R.T. -0.006 min
Lab File: VN076780.D
Acq: 22 Feb 2023 18:52

Tgt Ion:104 Resp: 2572
Ion Ratio Lower Upper
104 100
78 0.0 38.2 57.4#
103 99.9 44.2 66.4#





#71

Bromoform

Concen: 0.941 ug/l

RT: 12.854 min Scan# 1856

Delta R.T. 0.271 min

Lab File: VN076780.D

Acq: 22 Feb 2023 18:52

Instrument :

MSVOA_N

ClientSampleId :

31948

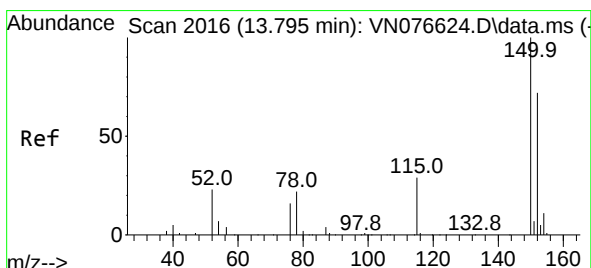
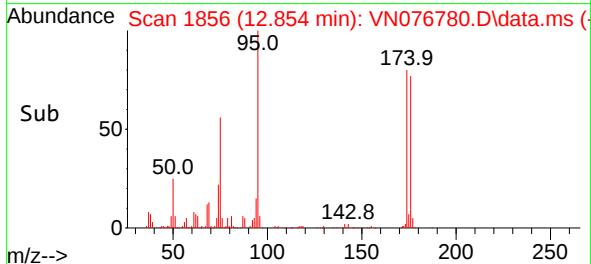
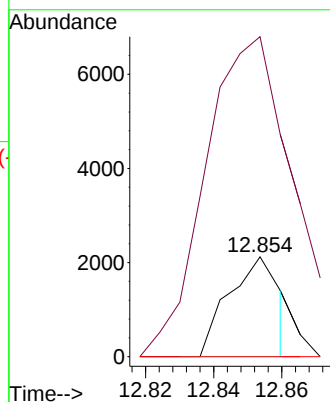
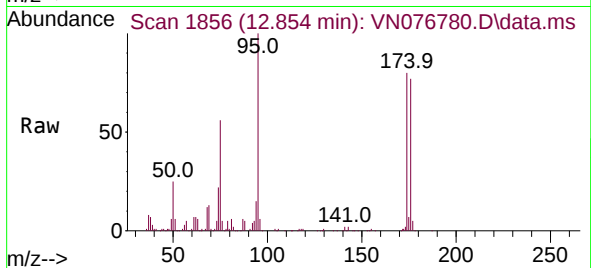
Tgt Ion:173 Resp: 2204

Ion Ratio Lower Upper

173 100

175 461.0 24.9 74.7#

254 0.0 0.1 0.1#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.795 min Scan# 2016

Delta R.T. -0.000 min

Lab File: VN076780.D

Acq: 22 Feb 2023 18:52

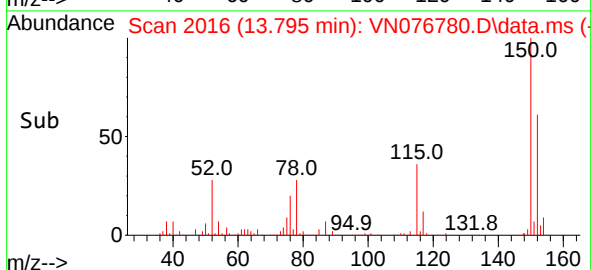
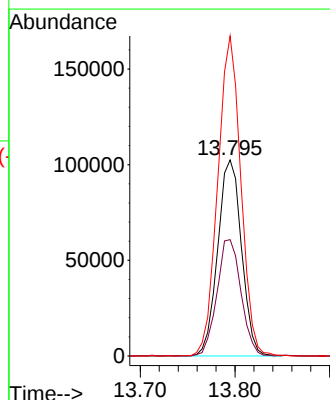
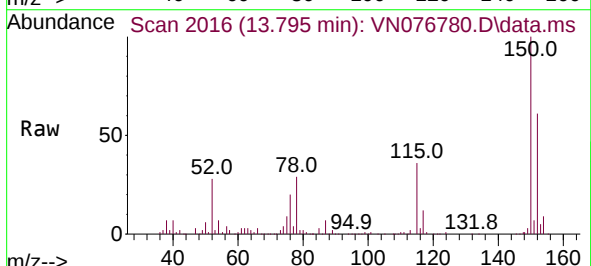
Tgt Ion:152 Resp: 178712

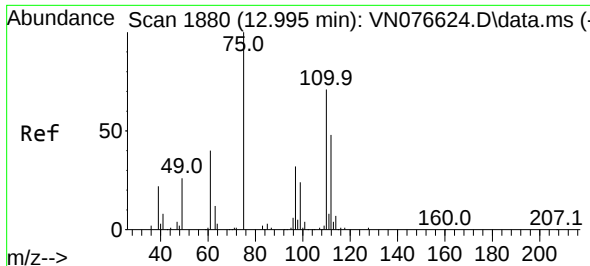
Ion Ratio Lower Upper

152 100

115 60.0 29.3 87.9

150 158.4 0.0 349.8

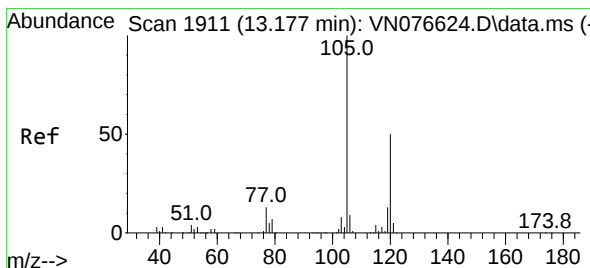
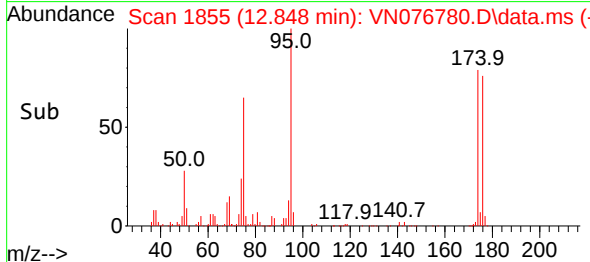
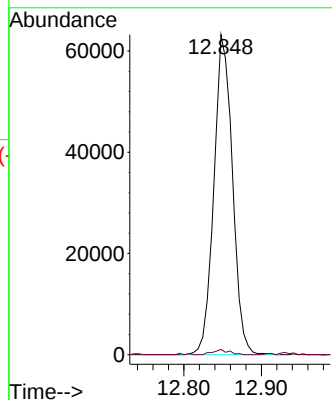
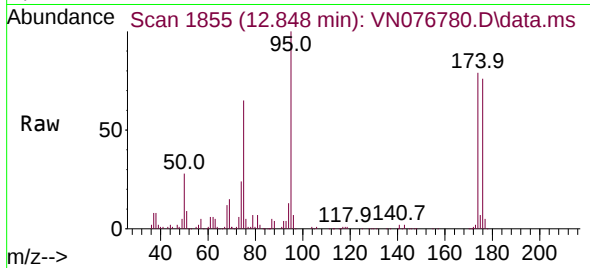




#76
1,2,3-Trichloropropane
Concen: 29.123 ug/l
RT: 12.848 min Scan# 1880
Delta R.T. -0.147 min
Lab File: VN076780.D
Acq: 22 Feb 2023 18:52

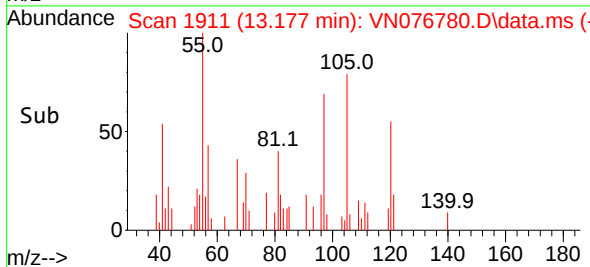
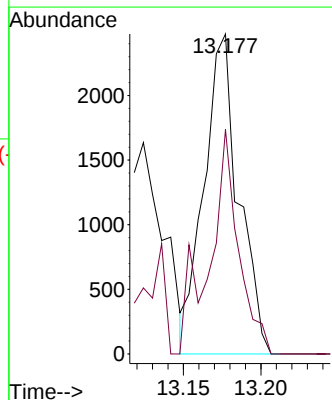
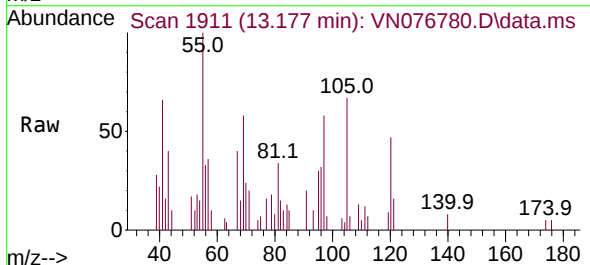
Instrument :
MSVOA_N
ClientSampleId :
31948

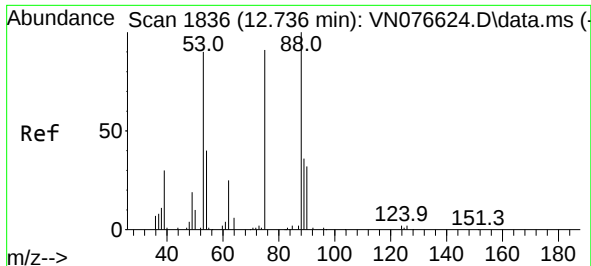
Tgt Ion: 75 Resp: 105224
Ion Ratio Lower Upper
75 100
77 1.4 93.1 279.3#



#80
1,3,5-Trimethylbenzene
Concen: 0.355 ug/l
RT: 13.177 min Scan# 1911
Delta R.T. 0.000 min
Lab File: VN076780.D
Acq: 22 Feb 2023 18:52

Tgt Ion:105 Resp: 3846
Ion Ratio Lower Upper
105 100
120 59.4 25.1 75.4

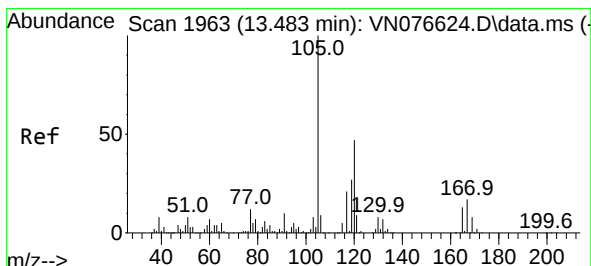
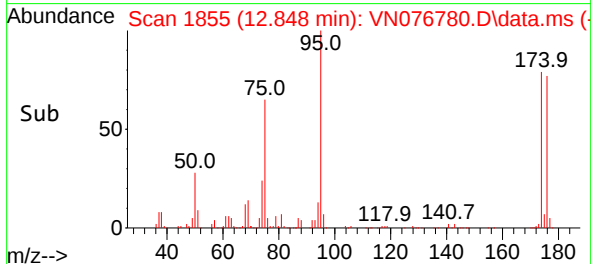
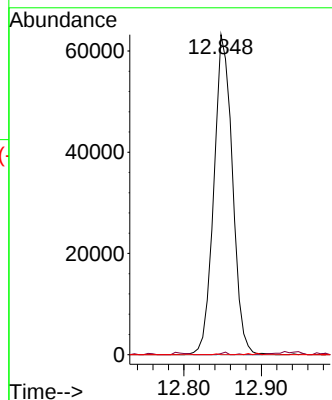
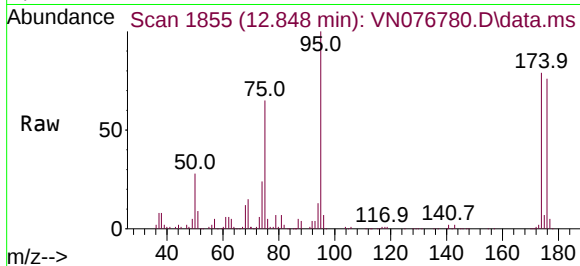




#81
trans-1,4-Dichloro-2-butene
Concen: 84.824 ug/l
RT: 12.848 min Scan# 1836
Delta R.T. 0.112 min
Lab File: VN076780.D
Acq: 22 Feb 2023 18:52

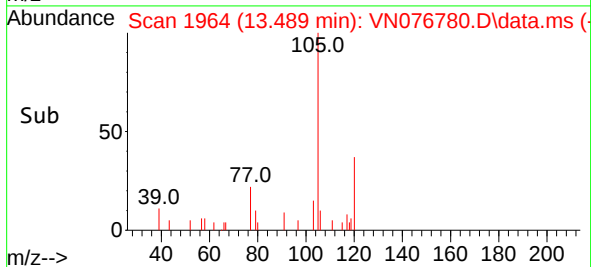
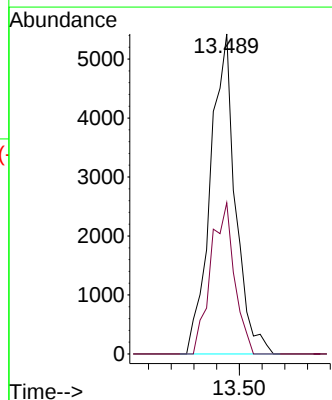
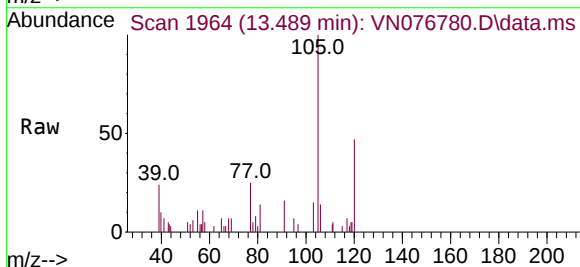
Instrument :
MSVOA_N
ClientSampleId :
31948

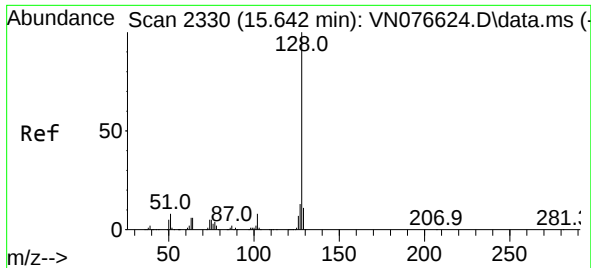
Tgt Ion: 75 Resp: 105224
Ion Ratio Lower Upper
75 100
53 0.2 92.1 138.1#
89 0.1 37.5 56.3#



#84
1,2,4-Trimethylbenzene
Concen: 0.770 ug/l
RT: 13.489 min Scan# 1964
Delta R.T. 0.006 min
Lab File: VN076780.D
Acq: 22 Feb 2023 18:52

Tgt Ion: 105 Resp: 8305
Ion Ratio Lower Upper
105 100
120 44.7 23.0 69.0





#95

Naphthalene

Concen: 1.112 ug/l

RT: 15.653 min Scan# 21

Delta R.T. 0.011 min

Lab File: VN076780.D

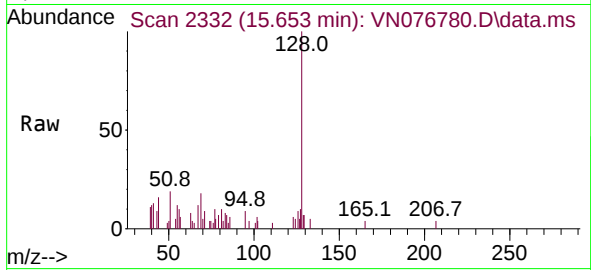
Acq: 22 Feb 2023 18:52

Instrument :

MSVOA_N

ClientSampleId :

31948



Tgt Ion:128 Resp: 10656

Ion Ratio Lower Upper

128 100

127 19.4 10.6 16.0#

129 6.8 8.6 13.0#

