

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062122\
 Data File : VN073011.D
 Acq On : 22 Jun 2022 08:07
 Operator : JC\MD
 Sample : N3373-14
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DS-7WC

Quant Time: Jun 22 09:16:59 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N061722W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 18 06:22:45 2022
 Response via : Initial Calibration

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

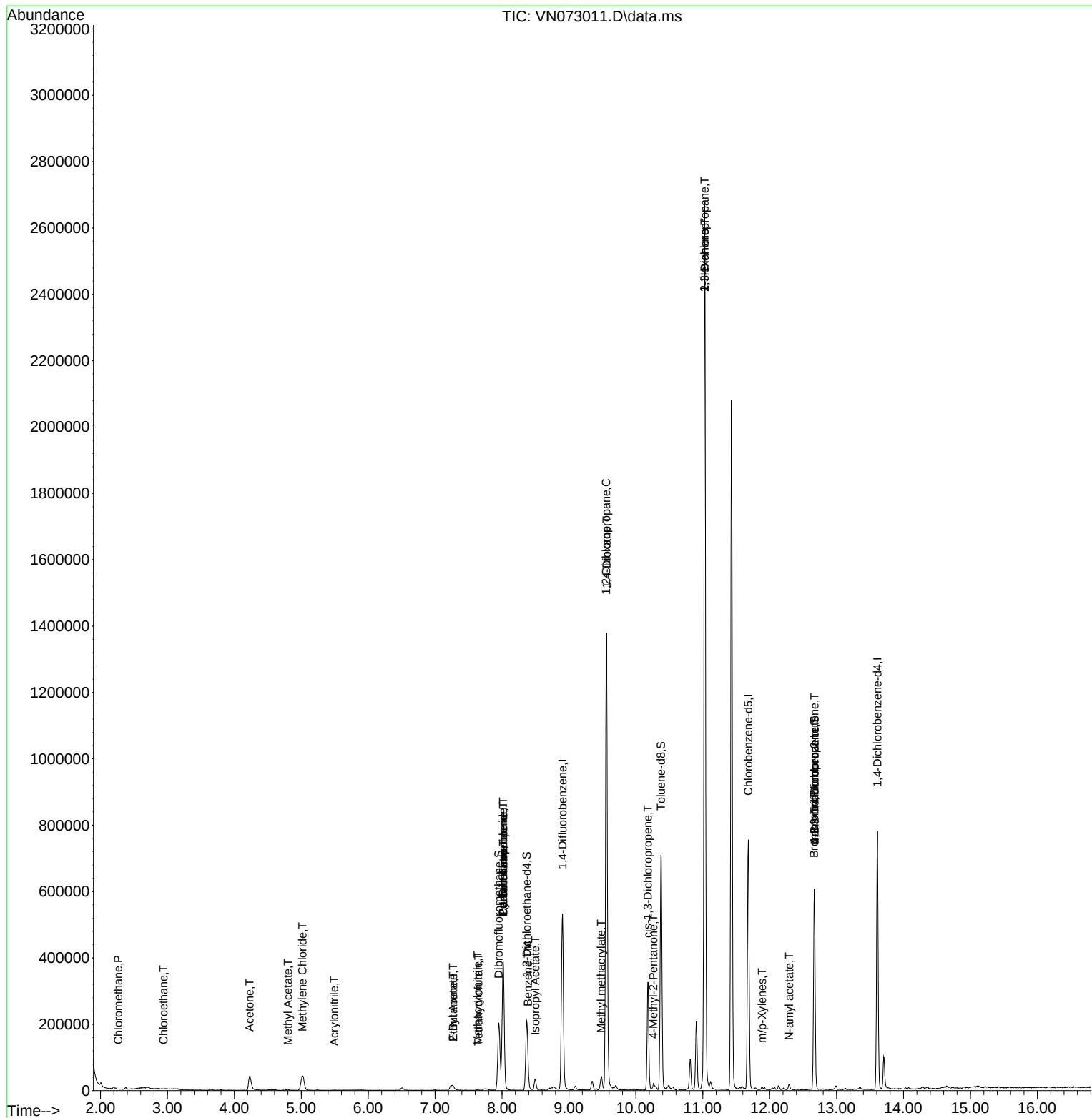
Internal Standards						
1) Pentafluorobenzene	8.016	168	294111	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	473400	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.680	117	435347	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.610	152	203664	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.369	65	173963	43.750	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	87.500%		
35) Dibromofluoromethane	7.951	113	151275	51.699	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	103.400%		
50) Toluene-d8	10.375	98	496462	45.598	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	91.200%		
62) 4-Bromofluorobenzene	12.669	95	209236	53.443	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	106.880%		
Target Compounds						Qvalue
3) Chloromethane	2.263	50	297	0.667	ug/l #	43
6) Chloroethane	2.940	64	640	0.407	ug/l #	42
15) Acrylonitrile	5.493	53	703	0.297	ug/l #	52
16) Acetone	4.228	43	83438	38.174	ug/l	94
18) Methyl Acetate	4.799	43	4540	0.780	ug/l	91
20) Methylene Chloride	5.016	84	37736	10.942	ug/l	90
25) 2-Butanone	7.269	43	18992	5.476	ug/l	94
26) 2,2-Dichloropropane	7.240	77	853	Below Cal	#	53
29) Tetrahydrofuran	7.645	42	991	0.433	ug/l #	34
31) Cyclohexane	8.016	56	6426	1.195	ug/l #	47
36) 1,1-Dichloropropene	8.016	75	23199	5.859	ug/l #	49
37) Ethyl Acetate	7.269	43	18992	2.999	ug/l #	69
38) Carbon Tetrachloride	8.016	117	30117	7.232	ug/l #	16
40) Benzene	8.387	78	4582	0.368	ug/l	96
41) Methacrylonitrile	7.634	41	684	0.228	ug/l #	25
43) Isopropyl Acetate	8.498	43	38037	4.202	ug/l #	88
45) 1,2-Dichloropropane	9.557	63	1525	0.479	ug/l #	44
48) Methyl methacrylate	9.481	41	12168	2.944	ug/l #	22
49) 1,4-Dioxane	9.563	88	292	3.140	ug/l #	1
51) 4-Methyl-2-Pentanone	10.263	43	21348	3.616	ug/l #	70
54) cis-1,3-Dichloropropene	10.181	75	57841	11.520	ug/l #	66
57) 1,3-Dichloropropane	11.028	76	27249	4.897	ug/l #	43
59) 2-Hexanone	11.028	43	452506	99.107	ug/l #	46
68) m/p-Xylenes	11.886	106	2335	0.398	ug/l	77
71) Bromoform	12.663	173	1197	0.491	ug/l #	1
74) N-amyl acetate	12.292	43	11891	1.454	ug/l #	41
76) 1,2,3-Trichloropropane	12.669	75	107335	21.737	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.669	75	107335	58.705	ug/l #	10
92) 1,2-Dibromo-3-Chloropr...	14.474	75	55	Below Cal	#	1

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

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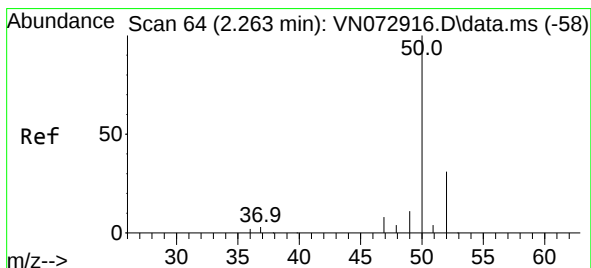
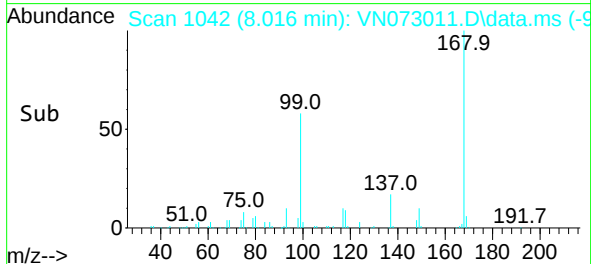
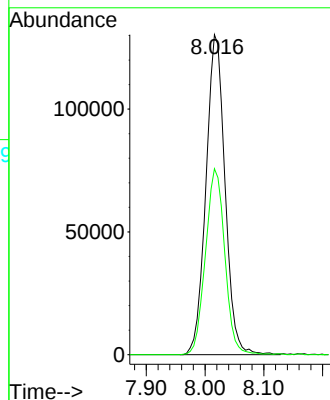
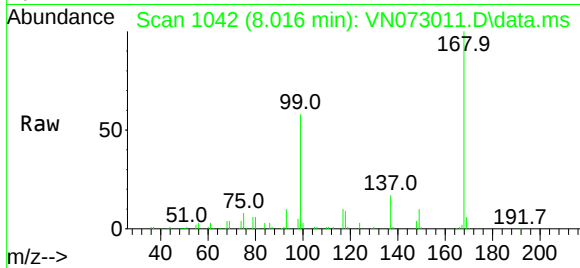




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.000 min
Lab File: VN073011.D
Acq: 22 Jun 2022 08:07

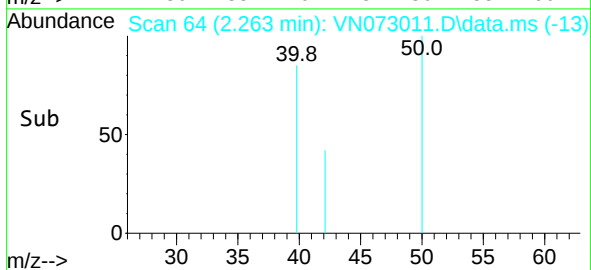
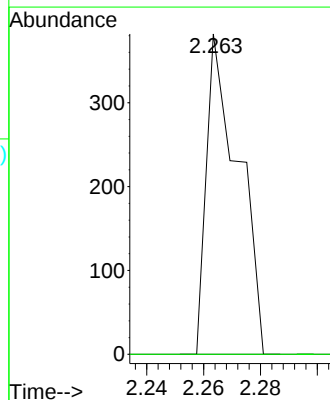
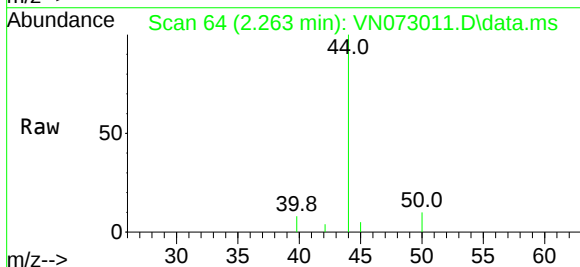
Instrument :
MSVOA_N
ClientSampleId :
DS-7WC

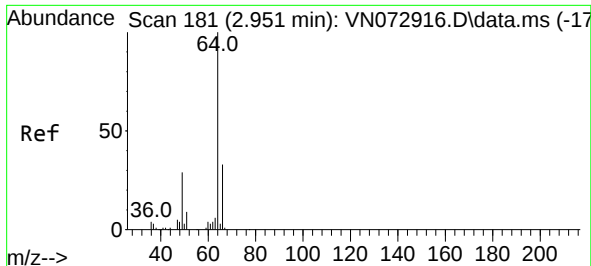
Tgt Ion:168 Resp: 294111
Ion Ratio Lower Upper
168 100
99 58.1 42.3 63.5



#3
Chloromethane
Concen: 0.667 ug/l
RT: 2.263 min Scan# 64
Delta R.T. 0.000 min
Lab File: VN073011.D
Acq: 22 Jun 2022 08:07

Tgt Ion: 50 Resp: 297
Ion Ratio Lower Upper
50 100
52 0.0 25.7 38.5#

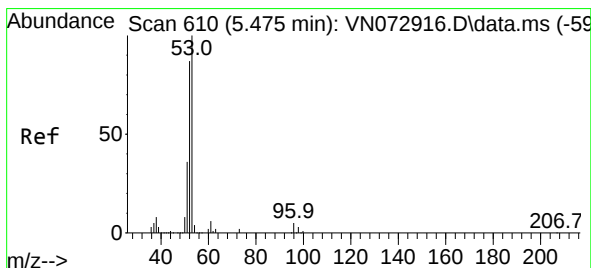
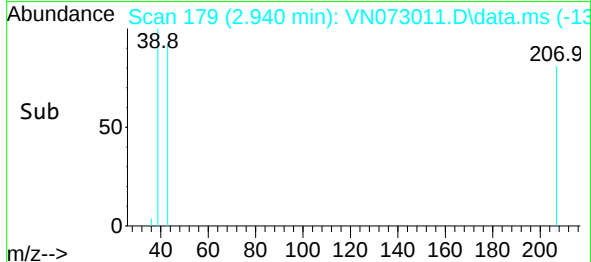
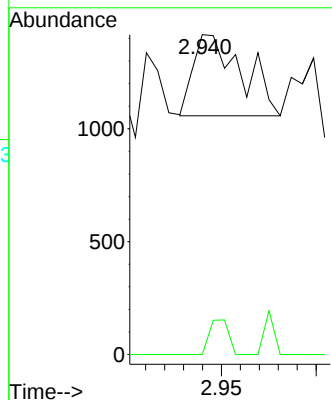
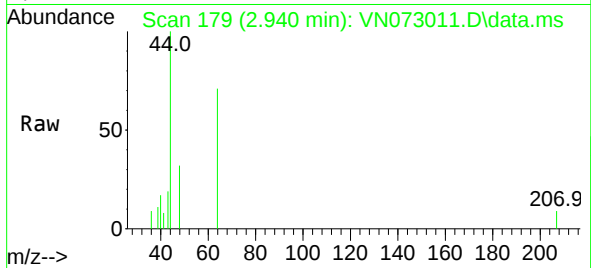




#6
Chloroethane
Concen: 0.407 ug/l
RT: 2.940 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN073011.D
Acq: 22 Jun 2022 08:07

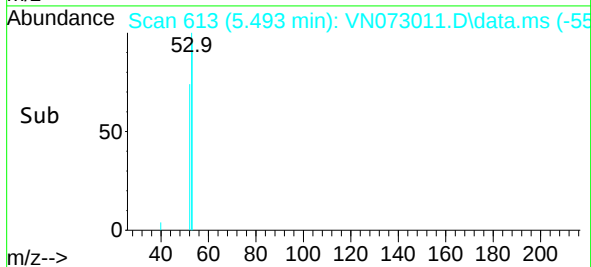
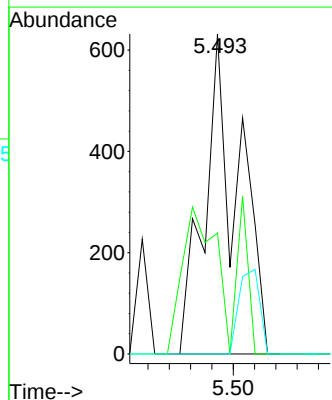
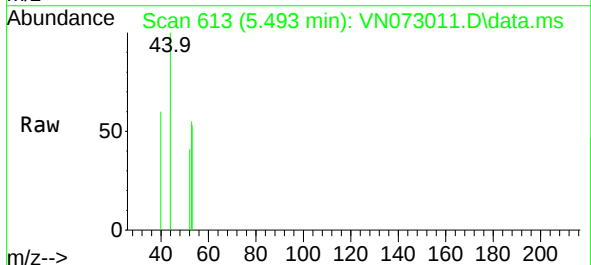
Instrument :
MSVOA_N
ClientSampleId :
DS-7WC

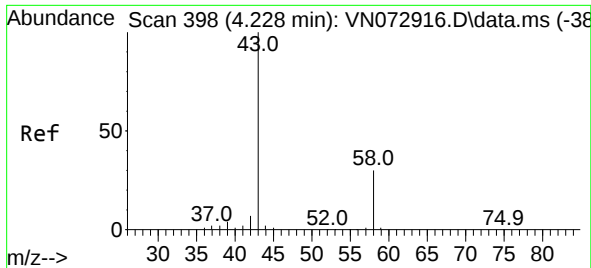
Tgt Ion: 64 Resp: 640
Ion Ratio Lower Upper
64 100
66 0.0 26.2 39.4#



#15
Acrylonitrile
Concen: 0.297 ug/l
RT: 5.493 min Scan# 613
Delta R.T. 0.018 min
Lab File: VN073011.D
Acq: 22 Jun 2022 08:07

Tgt Ion: 53 Resp: 703
Ion Ratio Lower Upper
53 100
52 45.1 66.4 99.6#
51 0.0 28.5 42.7#

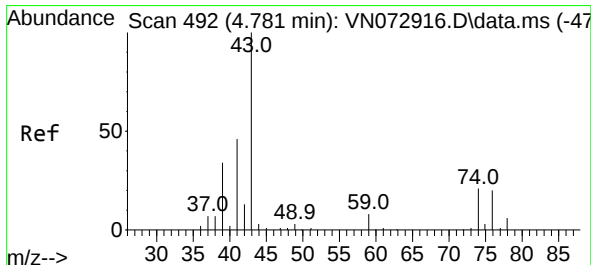
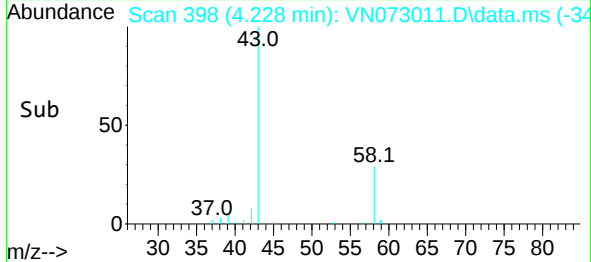
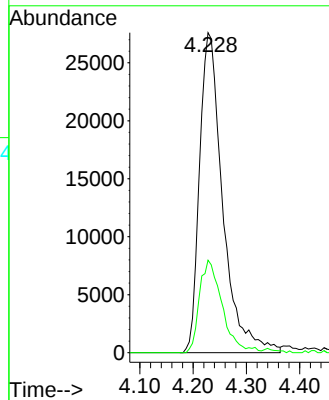
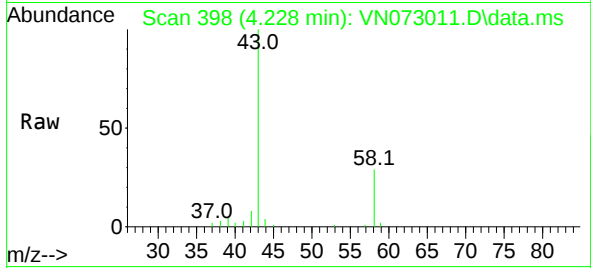




#16
Acetone
Concen: 38.174 ug/l
RT: 4.228 min Scan# 398
Delta R.T. 0.000 min
Lab File: VN073011.D
Acq: 22 Jun 2022 08:07

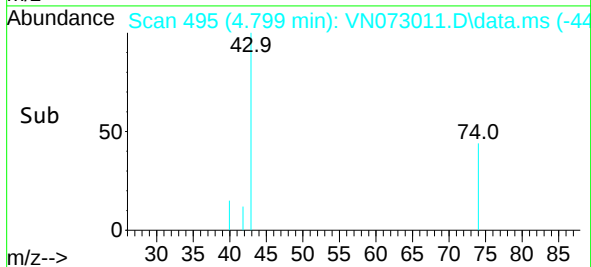
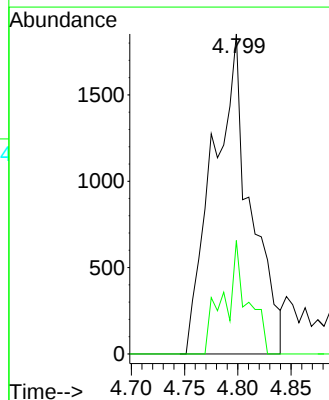
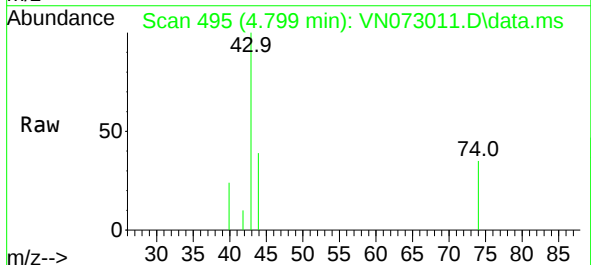
Instrument :
MSVOA_N
ClientSampleId :
DS-7WC

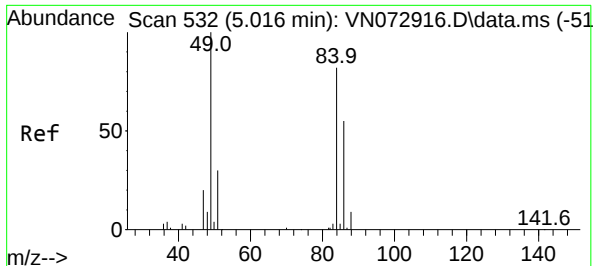
Tgt Ion: 43 Resp: 83438
Ion Ratio Lower Upper
43 100
58 28.9 26.0 39.0



#18
Methyl Acetate
Concen: 0.780 ug/l
RT: 4.799 min Scan# 495
Delta R.T. 0.018 min
Lab File: VN073011.D
Acq: 22 Jun 2022 08:07

Tgt Ion: 43 Resp: 4540
Ion Ratio Lower Upper
43 100
74 22.3 21.6 32.4





#20

Methylene Chloride

Concen: 10.942 ug/l

RT: 5.016 min Scan# 51

Delta R.T. 0.000 min

Lab File: VN073011.D

Acq: 22 Jun 2022 08:07

Instrument :

MSVOA_N

ClientSampleId :

DS-7WC

Tgt Ion: 84 Resp: 37736

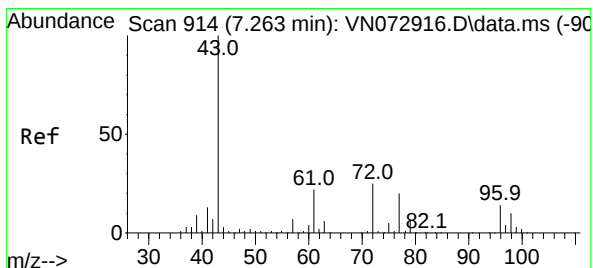
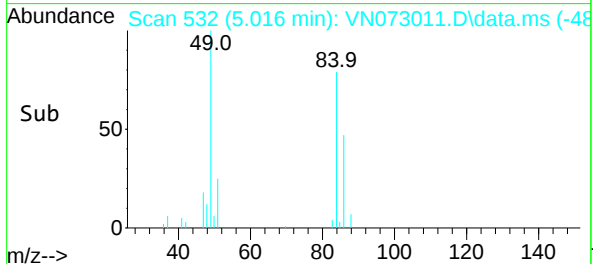
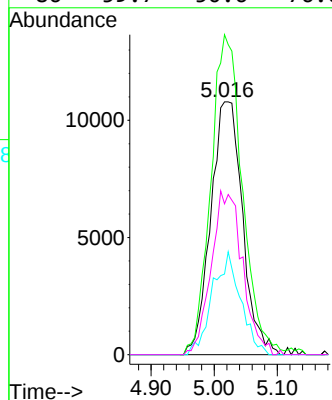
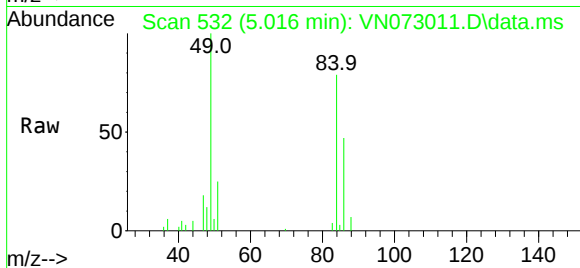
Ion Ratio Lower Upper

84 100

49 126.6 88.3 132.5

51 31.9 28.2 42.2

86 59.7 50.6 76.0



#25

2-Butanone

Concen: 5.476 ug/l

RT: 7.269 min Scan# 915

Delta R.T. 0.006 min

Lab File: VN073011.D

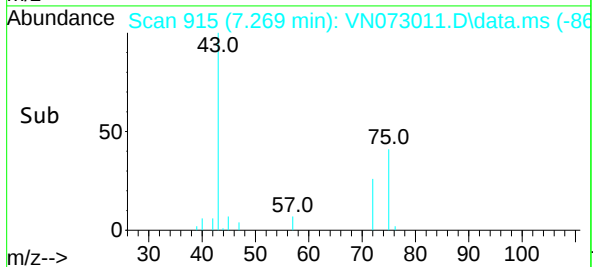
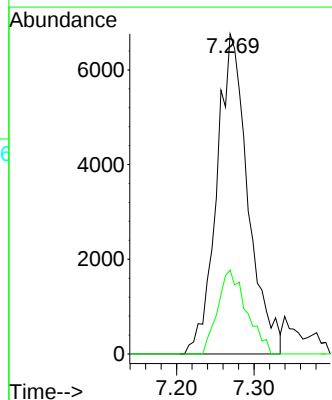
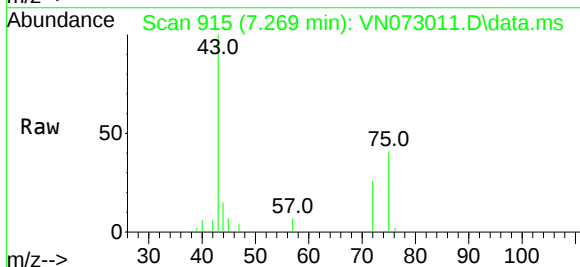
Acq: 22 Jun 2022 08:07

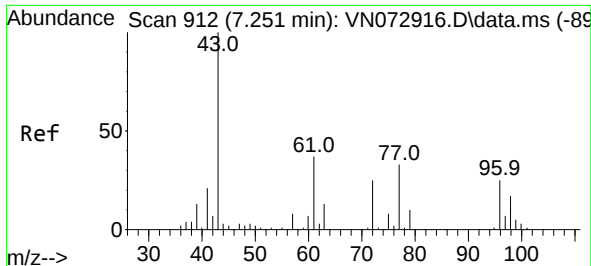
Tgt Ion: 43 Resp: 18992

Ion Ratio Lower Upper

43 100

72 26.2 23.7 35.5





#26

2,2-Dichloropropane

Concen: Below Cal

RT: 7.240 min Scan# 91

Delta R.T. -0.011 min

Lab File: VN073011.D

Acq: 22 Jun 2022 08:07

Instrument :

MSVOA_N

ClientSampleId :

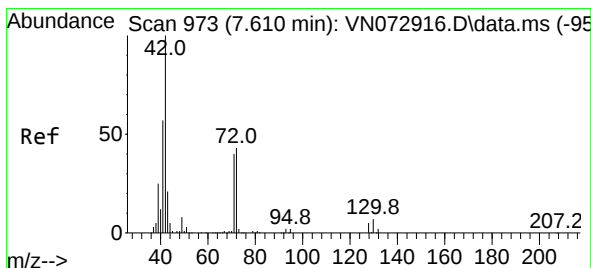
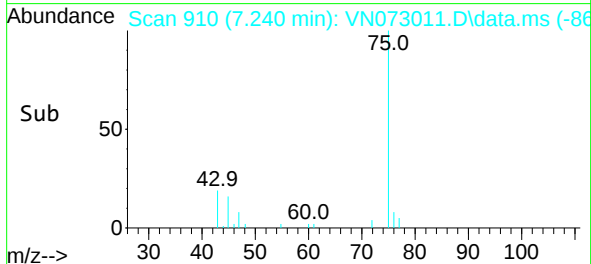
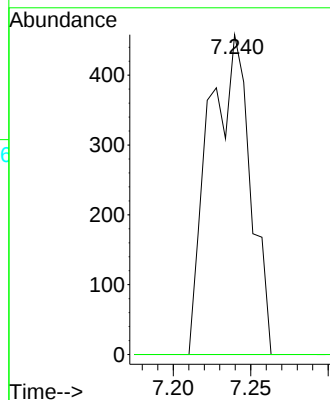
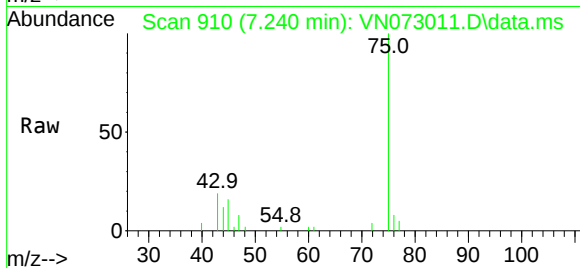
DS-7WC

Tgt Ion: 77 Resp: 853

Ion Ratio Lower Upper

77 100

97 0.0 11.4 34.2#



#29

Tetrahydrofuran

Concen: 0.433 ug/l

RT: 7.645 min Scan# 979

Delta R.T. 0.035 min

Lab File: VN073011.D

Acq: 22 Jun 2022 08:07

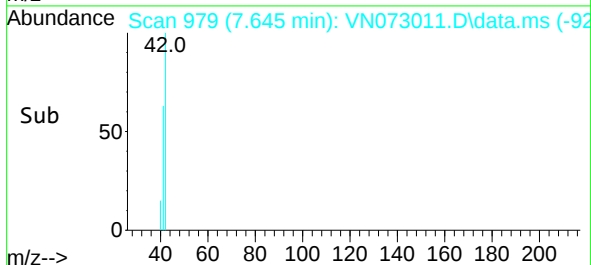
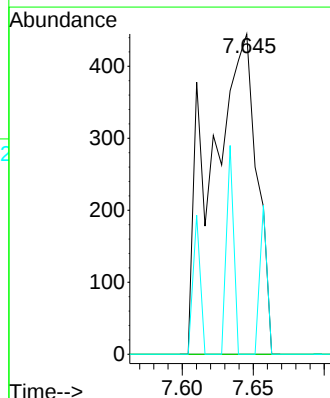
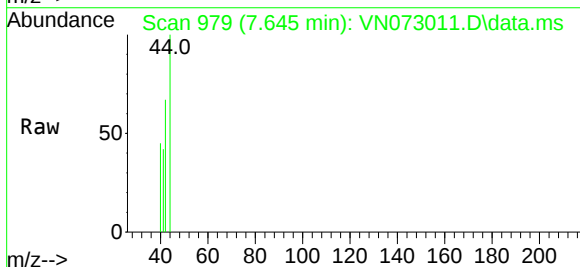
Tgt Ion: 42 Resp: 991

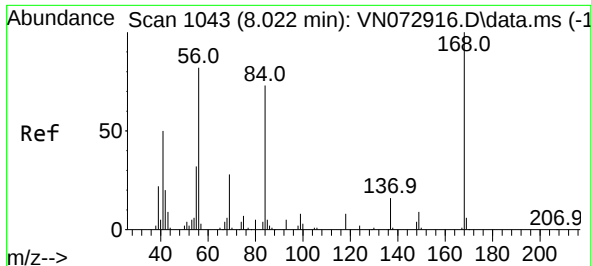
Ion Ratio Lower Upper

42 100

72 0.0 39.7 59.5#

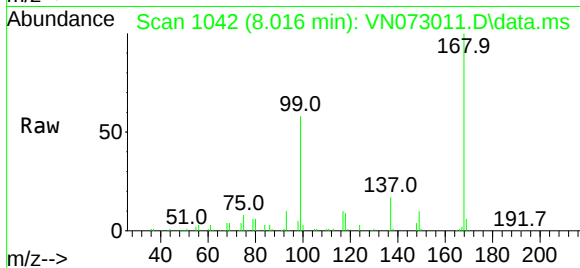
71 7.4 36.6 55.0#



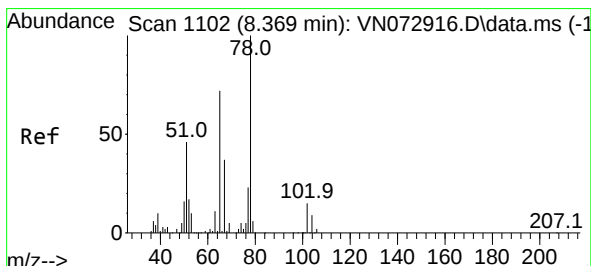
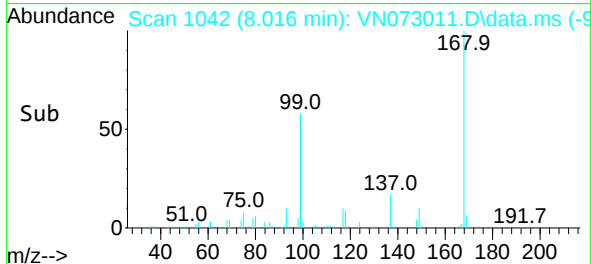
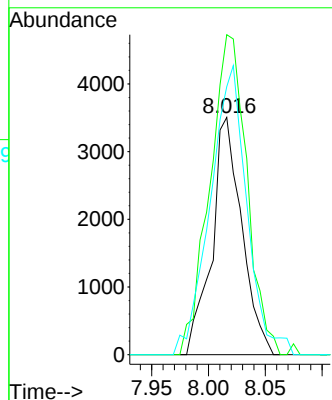


#31
Cyclohexane
Concen: 1.195 ug/l
RT: 8.016 min Scan# 1102
Delta R.T. -0.006 min
Lab File: VN073011.D
Acq: 22 Jun 2022 08:07

Instrument :
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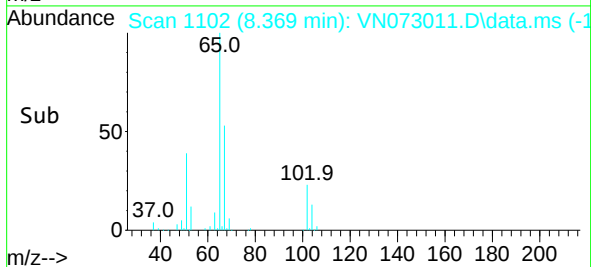
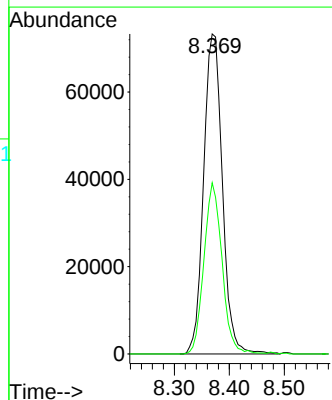
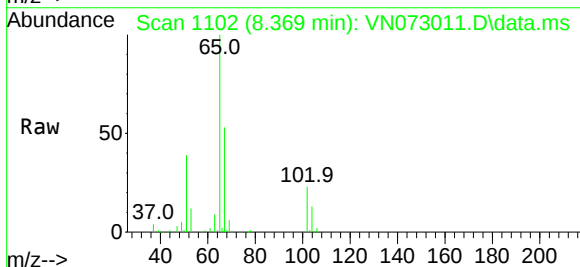


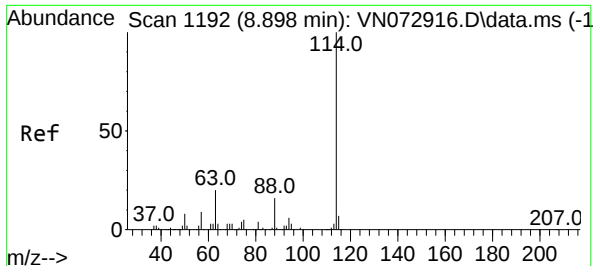
Tgt Ion: 56 Resp: 6426
Ion Ratio Lower Upper
56 100
69 134.9 27.8 41.8#
84 105.8 76.9 115.3



#33
1,2-Dichloroethane-d4
Concen: 43.750 ug/l
RT: 8.369 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VN073011.D
Acq: 22 Jun 2022 08:07

Tgt Ion: 65 Resp: 173963
Ion Ratio Lower Upper
65 100
67 51.6 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.904 min Scan# 1192

Delta R.T. 0.006 min

Lab File: VN073011.D

Acq: 22 Jun 2022 08:07

Instrument :

MSVOA_N

ClientSampleId :

DS-7WC

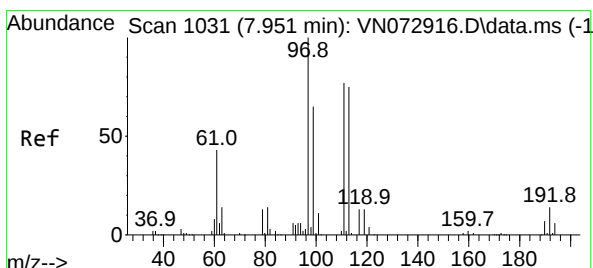
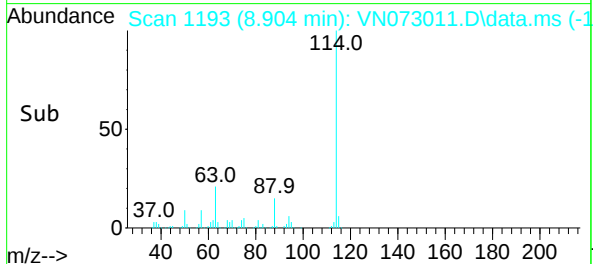
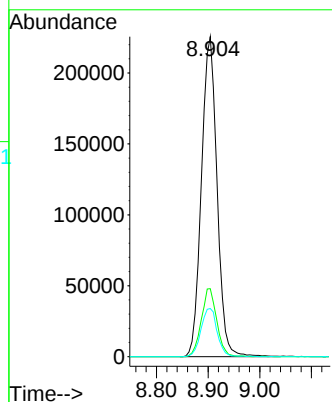
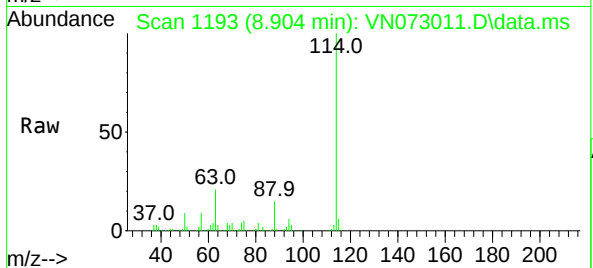
Tgt Ion:114 Resp: 473400

Ion Ratio Lower Upper

114 100

63 21.3 0.0 40.0

88 15.1 0.0 32.6



#35

Dibromofluoromethane

Concen: 51.699 ug/l

RT: 7.951 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VN073011.D

Acq: 22 Jun 2022 08:07

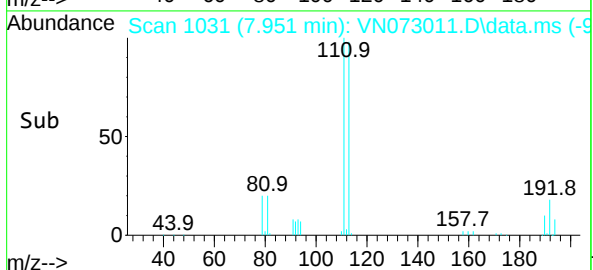
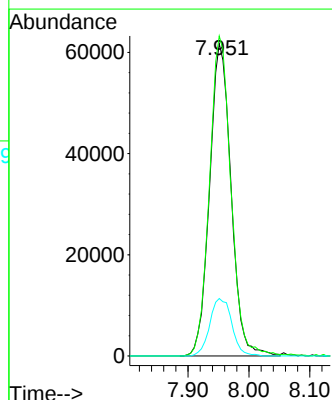
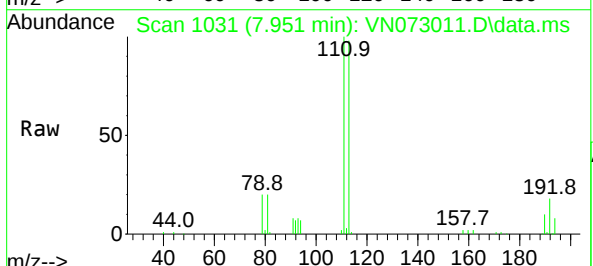
Tgt Ion:113 Resp: 151275

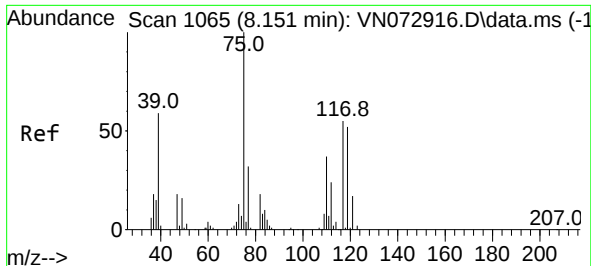
Ion Ratio Lower Upper

113 100

111 102.5 81.4 122.0

192 18.9 17.0 25.6





#36

1,1-Dichloropropene

Concen: 5.859 ug/l

RT: 8.016 min Scan# 1

Delta R.T. -0.135 min

Lab File: VN073011.D

Acq: 22 Jun 2022 08:07

Instrument :

MSVOA_N

ClientSampleId :

DS-7WC

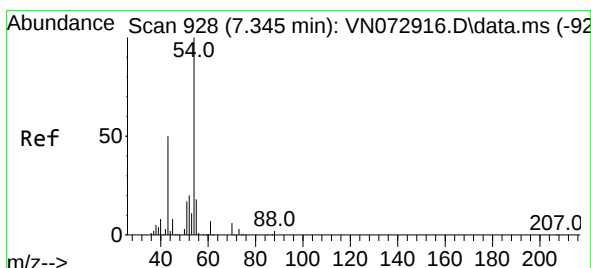
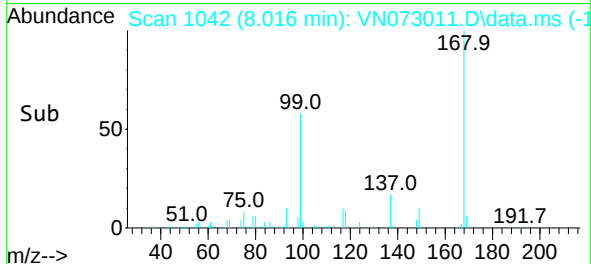
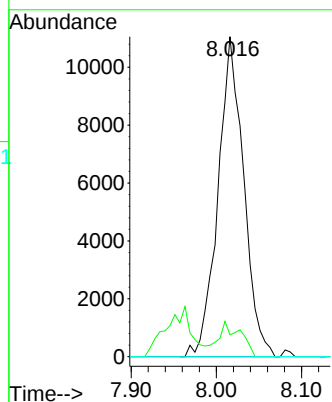
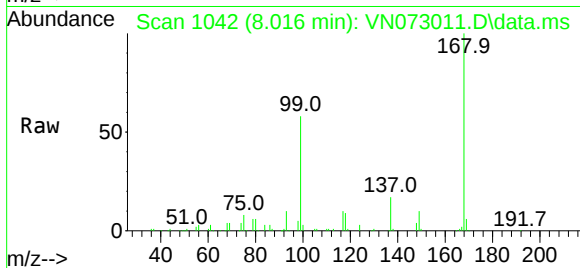
Tgt Ion: 75 Resp: 23199

Ion Ratio Lower Upper

75 100

110 9.6 18.3 54.8#

77 0.0 25.1 37.7#



#37

Ethyl Acetate

Concen: 2.999 ug/l

RT: 7.269 min Scan# 915

Delta R.T. -0.076 min

Lab File: VN073011.D

Acq: 22 Jun 2022 08:07

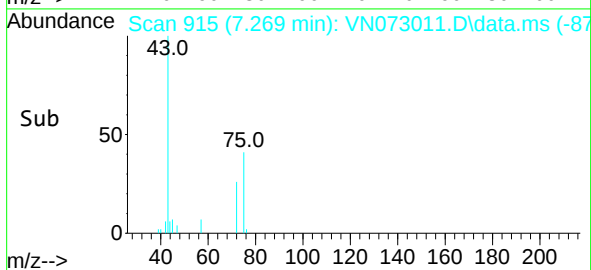
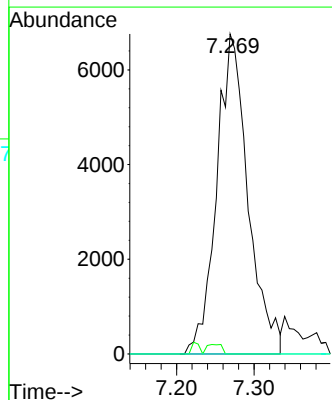
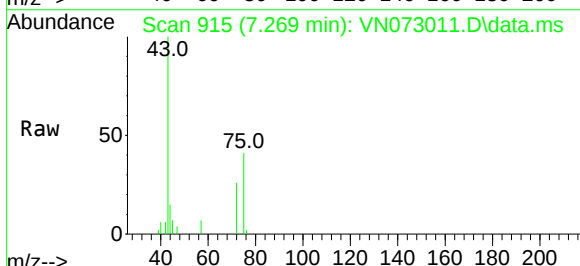
Tgt Ion: 43 Resp: 18992

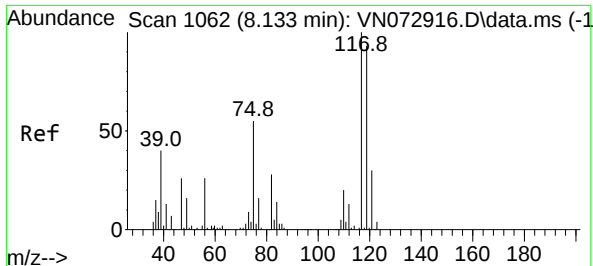
Ion Ratio Lower Upper

43 100

61 1.4 11.8 17.6#

70 0.0 9.3 13.9#

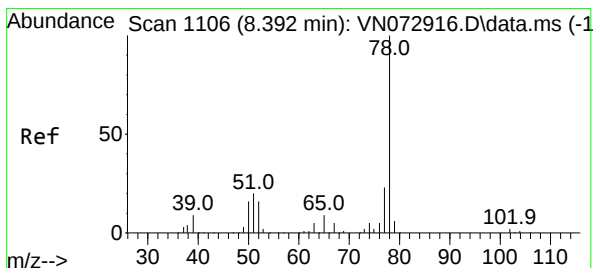
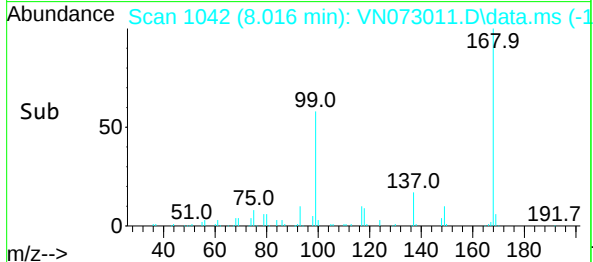
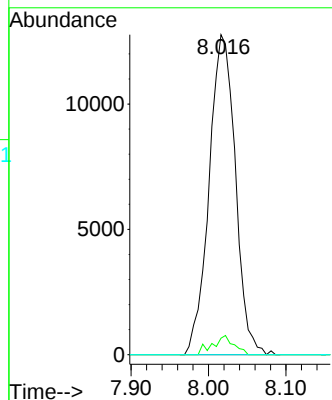
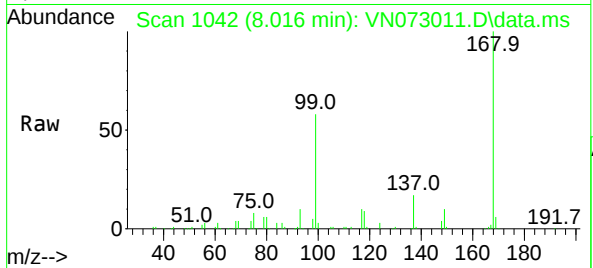




#38
Carbon Tetrachloride
Concen: 7.232 ug/l
RT: 8.016 min Scan# 1105
Delta R.T. -0.117 min
Lab File: VN073011.D
Acq: 22 Jun 2022 08:07

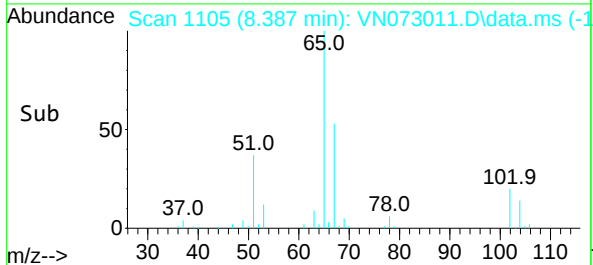
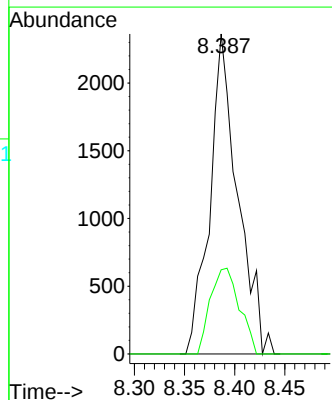
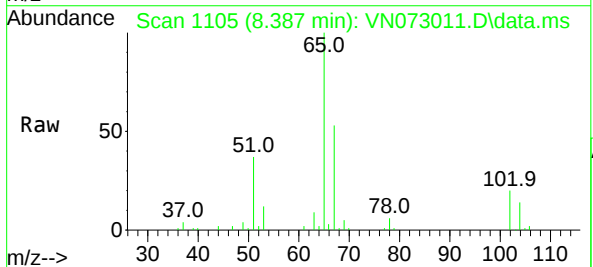
Instrument :
MSVOA_N
ClientSampleId :
DS-7WC

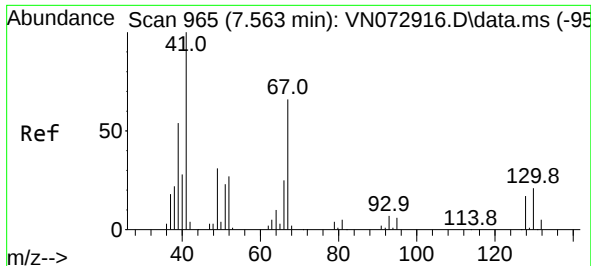
Tgt Ion:117 Resp: 30117
Ion Ratio Lower Upper
117 100
119 5.2 75.8 113.8#
121 0.0 24.6 37.0#



#40
Benzene
Concen: 0.368 ug/l
RT: 8.387 min Scan# 1105
Delta R.T. -0.006 min
Lab File: VN073011.D
Acq: 22 Jun 2022 08:07

Tgt Ion: 78 Resp: 4582
Ion Ratio Lower Upper
78 100
77 26.3 19.4 29.0

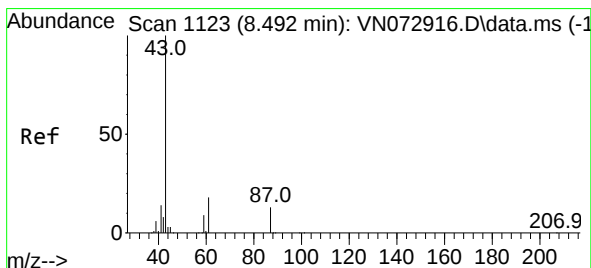
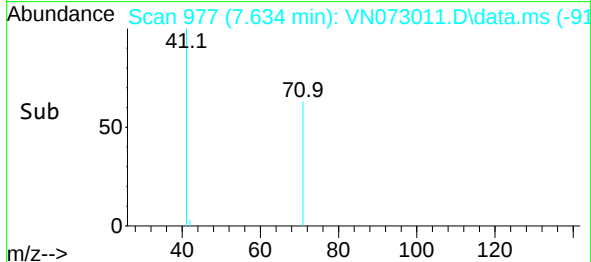
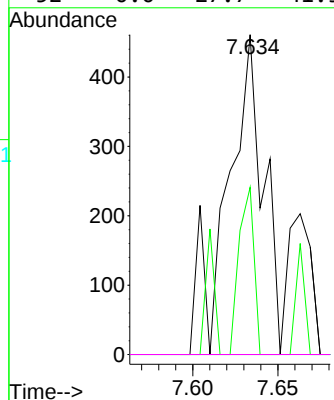
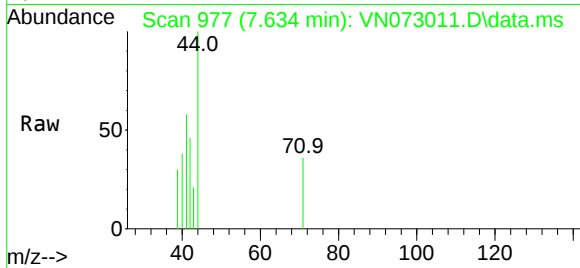




#41
Methacrylonitrile
Concen: 0.228 ug/l
RT: 7.634 min Scan# 91
Delta R.T. 0.071 min
Lab File: VN073011.D
Acq: 22 Jun 2022 08:07

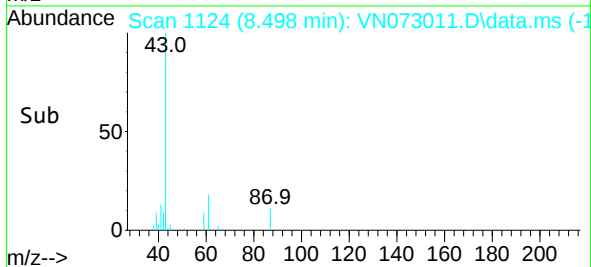
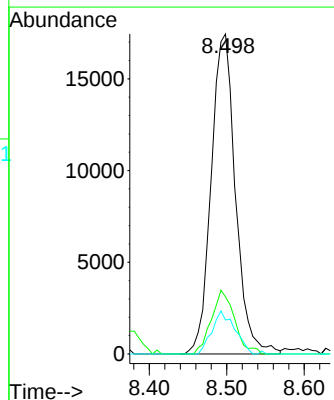
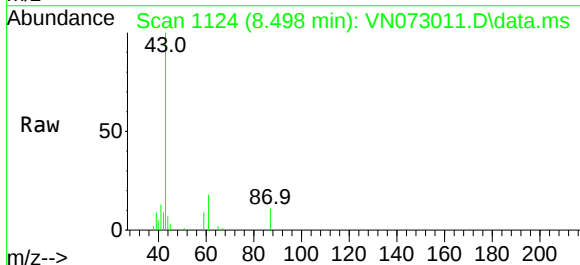
Instrument :
MSVOA_N
ClientSampleId :
DS-7WC

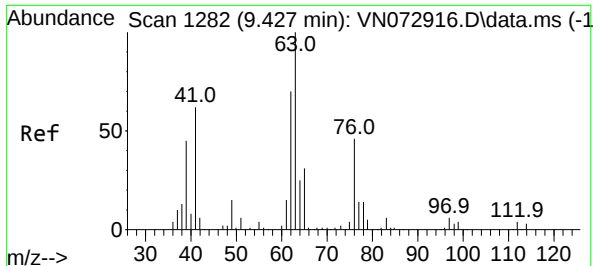
Tgt Ion:	41	Resp:	684
Ion	Ratio	Lower	Upper
41	100		
39	21.6	48.6	73.0#
67	0.0	73.4	110.2#
52	0.0	27.7	41.5#



#43
Isopropyl Acetate
Concen: 4.202 ug/l
RT: 8.498 min Scan# 1124
Delta R.T. 0.006 min
Lab File: VN073011.D
Acq: 22 Jun 2022 08:07

Tgt Ion:	43	Resp:	38037
Ion	Ratio	Lower	Upper
43	100		
61	19.0	21.9	32.9#
87	12.6	12.0	18.0





#45

1,2-Dichloropropane

Concen: 0.479 ug/l

RT: 9.557 min Scan# 11

Delta R.T. 0.130 min

Lab File: VN073011.D

Acq: 22 Jun 2022 08:07

Instrument :

MSVOA_N

ClientSampleId :

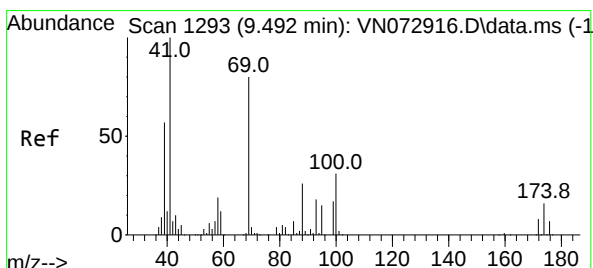
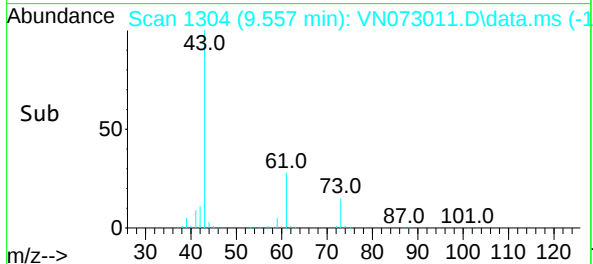
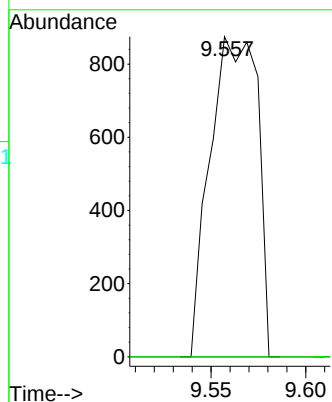
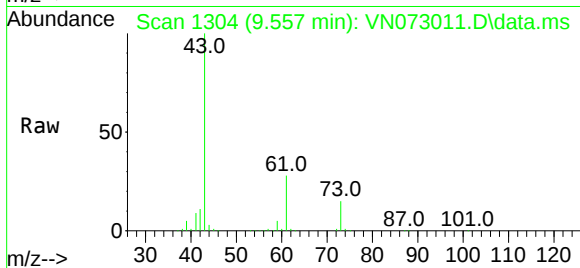
DS-7WC

Tgt Ion: 63 Resp: 1525

Ion Ratio Lower Upper

63 100

65 0.0 24.9 37.3#



#48

Methyl methacrylate

Concen: 2.944 ug/l

RT: 9.481 min Scan# 1291

Delta R.T. -0.012 min

Lab File: VN073011.D

Acq: 22 Jun 2022 08:07

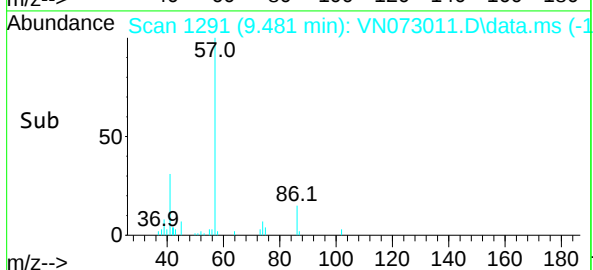
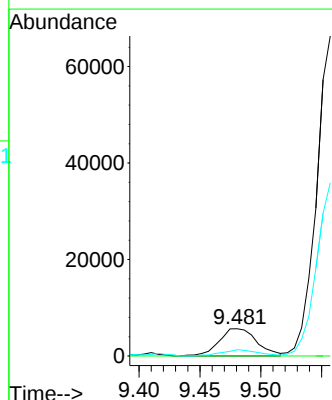
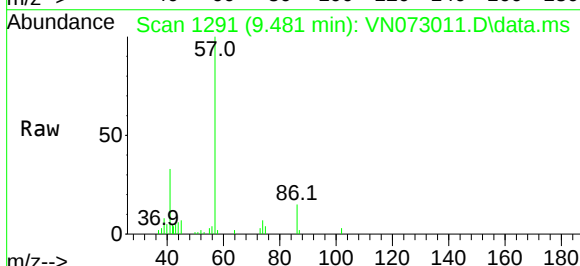
Tgt Ion: 41 Resp: 12168

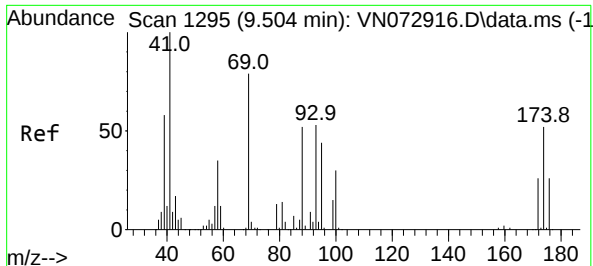
Ion Ratio Lower Upper

41 100

69 0.0 74.7 112.1#

39 22.2 45.6 68.4#





#49

1,4-Dioxane

Concen: 3.140 ug/l

RT: 9.563 min Scan# 11

Delta R.T. 0.059 min

Lab File: VN073011.D

Acq: 22 Jun 2022 08:07

Instrument :

MSVOA_N

ClientSampleId :

DS-7WC

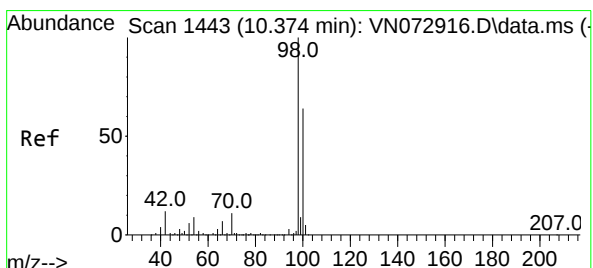
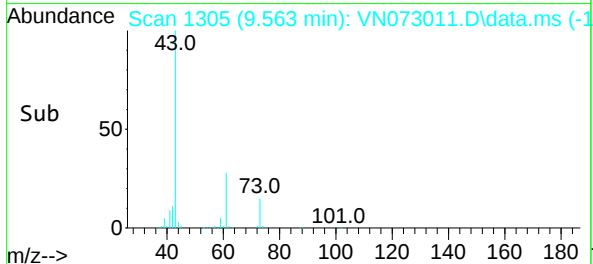
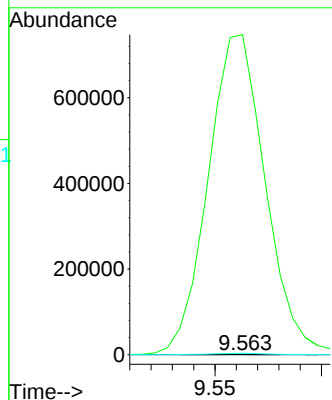
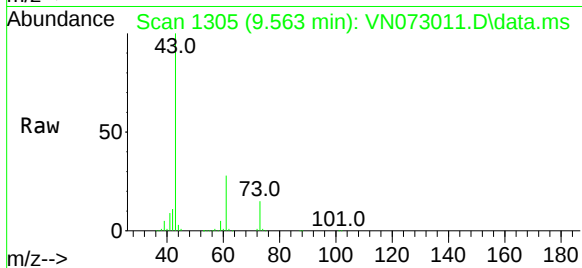
Tgt Ion: 88 Resp: 292

Ion Ratio Lower Upper

88 100

43 485462.0 20.2 30.4#

58 2002.1 54.2 81.4#



#50

Toluene-d8

Concen: 45.598 ug/l

RT: 10.375 min Scan# 1443

Delta R.T. 0.000 min

Lab File: VN073011.D

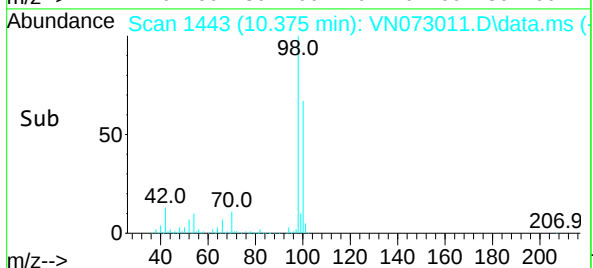
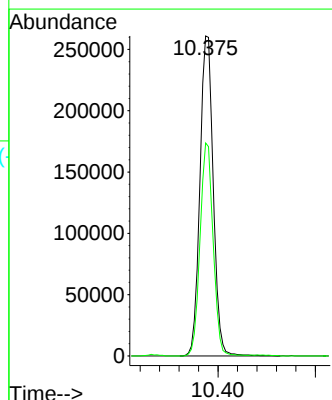
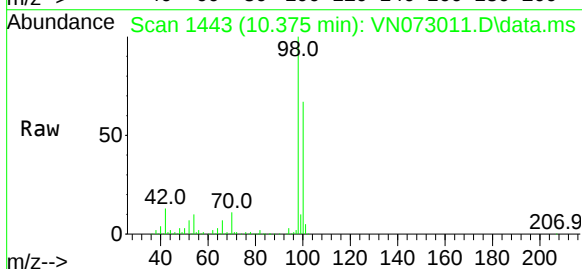
Acq: 22 Jun 2022 08:07

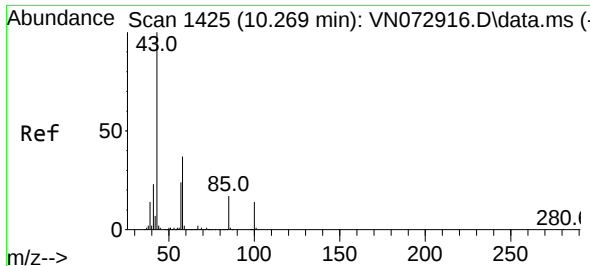
Tgt Ion: 98 Resp: 496462

Ion Ratio Lower Upper

98 100

100 65.4 52.6 78.8

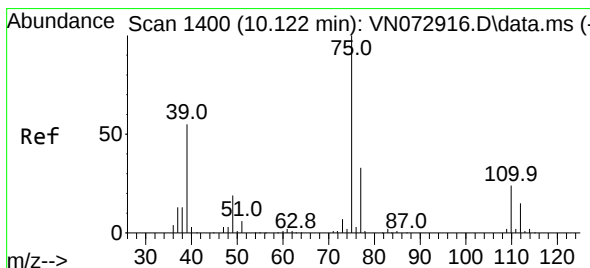
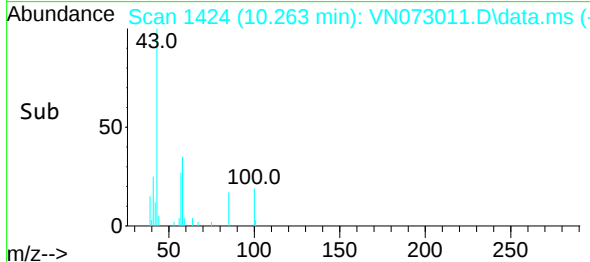
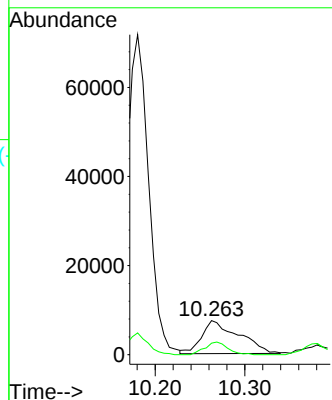
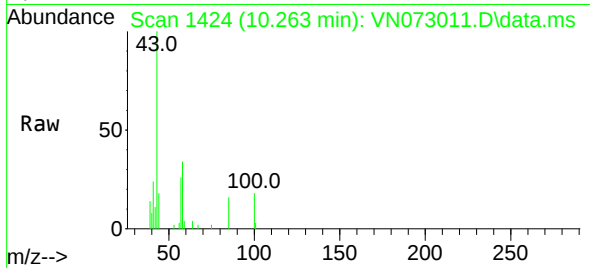




#51
4-Methyl-2-Pentanone
Concen: 3.616 ug/l
RT: 10.263 min Scan# 1410
Delta R.T. -0.006 min
Lab File: VN073011.D
Acq: 22 Jun 2022 08:07

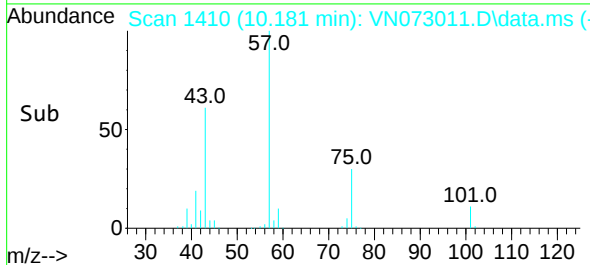
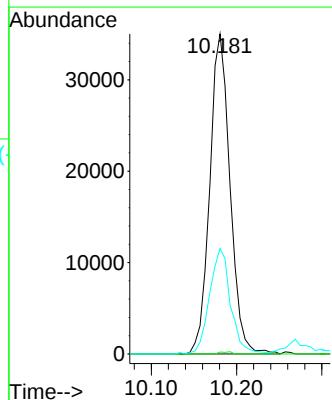
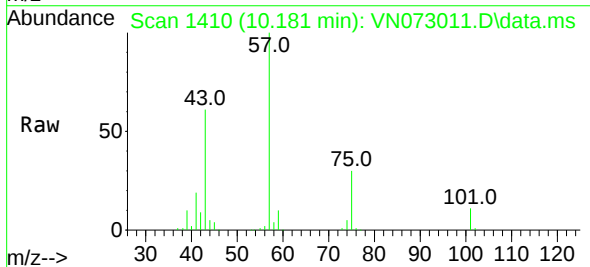
Instrument :
MSVOA_N
ClientSampleId :
DS-7WC

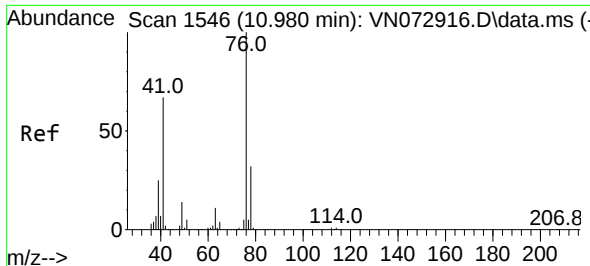
Tgt Ion: 43 Resp: 21348
Ion Ratio Lower Upper
43 100
58 23.5 34.1 51.1#



#54
cis-1,3-Dichloropropene
Concen: 11.520 ug/l
RT: 10.181 min Scan# 1410
Delta R.T. 0.059 min
Lab File: VN073011.D
Acq: 22 Jun 2022 08:07

Tgt Ion: 75 Resp: 57841
Ion Ratio Lower Upper
75 100
77 0.6 25.2 37.8#
39 32.5 35.7 53.5#





#57

1,3-Dichloropropane

Concen: 4.897 ug/l

RT: 11.028 min Scan# 1554

Delta R.T. 0.047 min

Lab File: VN073011.D

Acq: 22 Jun 2022 08:07

Instrument :

MSVOA_N

ClientSampleId :

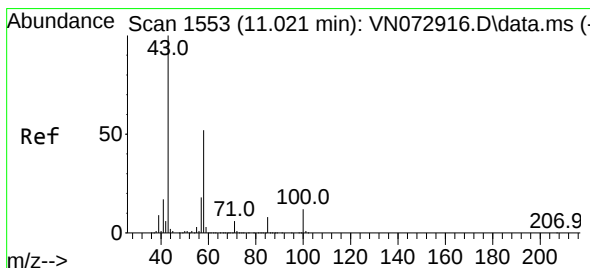
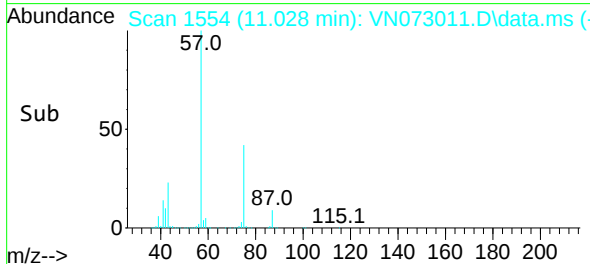
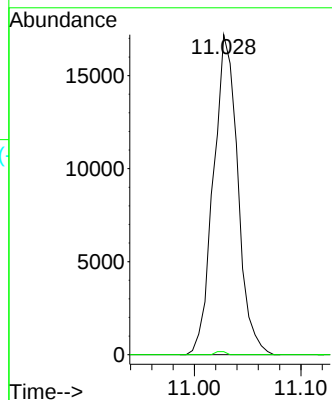
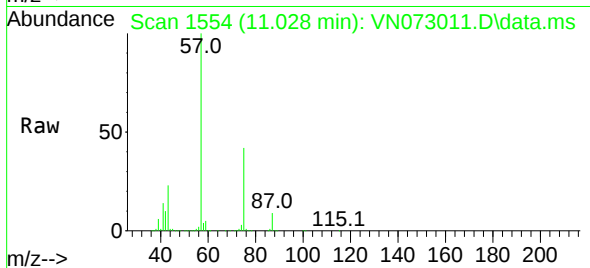
DS-7WC

Tgt Ion: 76 Resp: 27249

Ion Ratio Lower Upper

76 100

78 0.4 26.2 39.2#



#59

2-Hexanone

Concen: 99.107 ug/l

RT: 11.028 min Scan# 1554

Delta R.T. 0.006 min

Lab File: VN073011.D

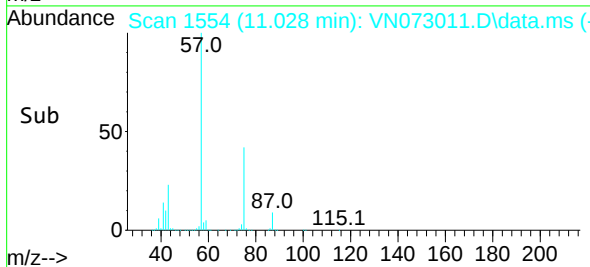
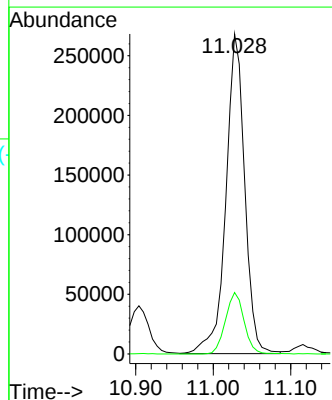
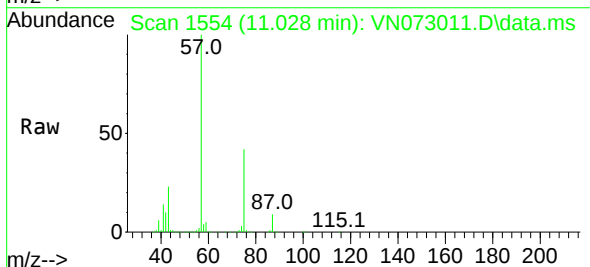
Acq: 22 Jun 2022 08:07

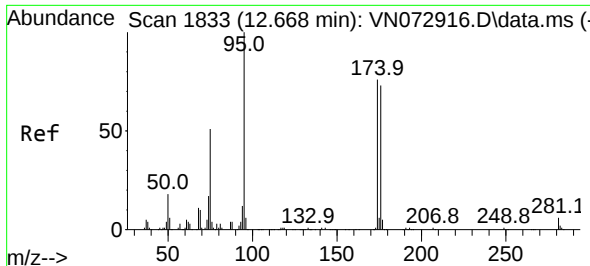
Tgt Ion: 43 Resp: 452506

Ion Ratio Lower Upper

43 100

58 19.1 29.7 89.1#

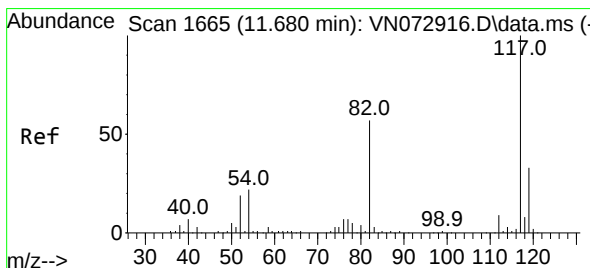
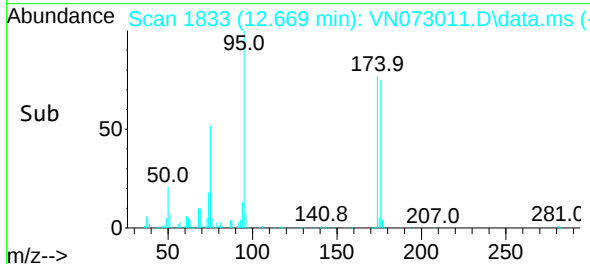
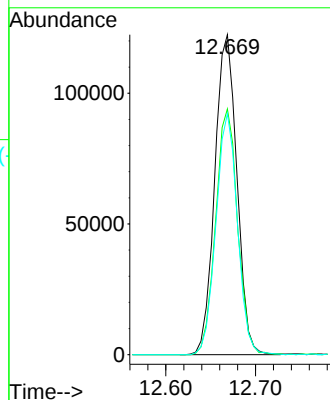
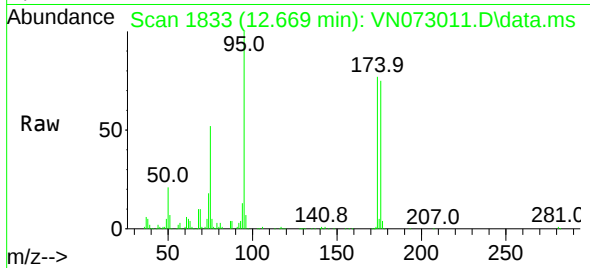




#62
4-Bromofluorobenzene
Concen: 53.443 ug/l
RT: 12.669 min Scan# 1833
Delta R.T. 0.000 min
Lab File: VN073011.D
Acq: 22 Jun 2022 08:07

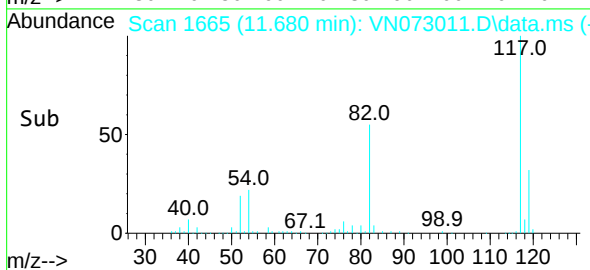
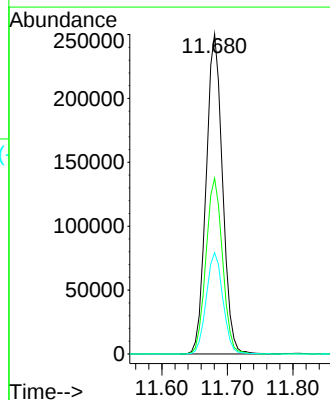
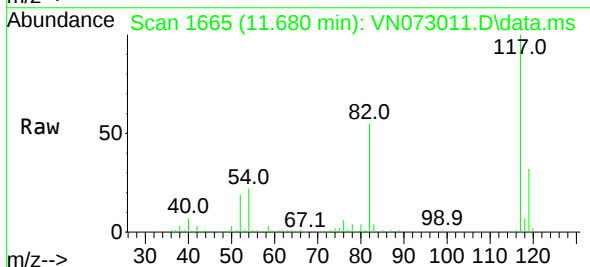
Instrument :
MSVOA_N
ClientSampleId :
DS-7WC

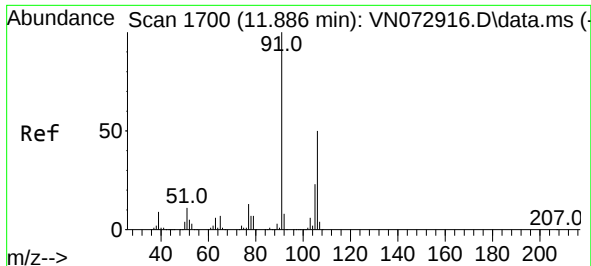
Tgt Ion: 95 Resp: 209236
Ion Ratio Lower Upper
95 100
174 76.3 0.0 167.6
176 73.1 0.0 163.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.680 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VN073011.D
Acq: 22 Jun 2022 08:07

Tgt Ion: 117 Resp: 435347
Ion Ratio Lower Upper
117 100
82 55.0 44.2 66.2
119 31.7 25.4 38.0

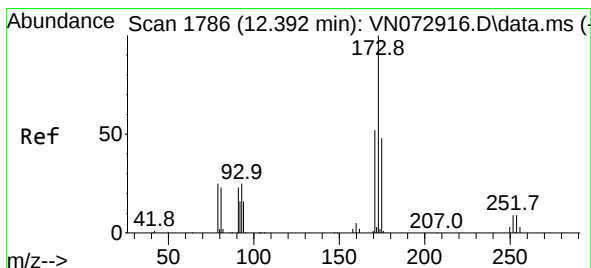
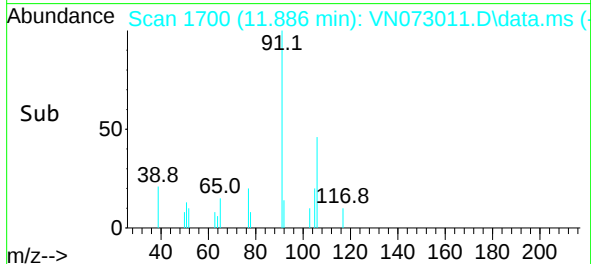
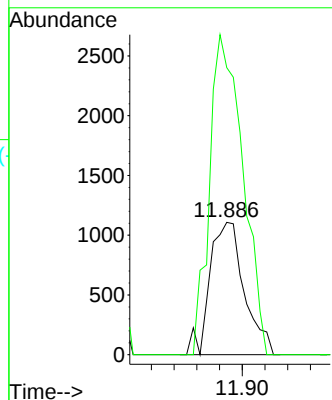
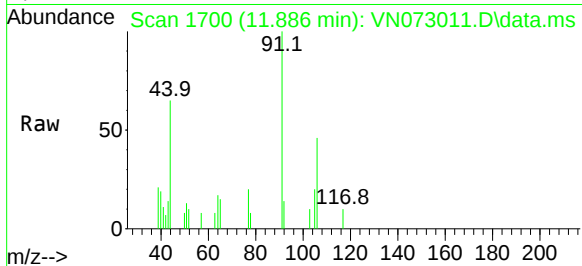




#68
m/p-Xylenes
Concen: 0.398 ug/l
RT: 11.886 min Scan# 1183
Delta R.T. 0.000 min
Lab File: VN073011.D
Acq: 22 Jun 2022 08:07

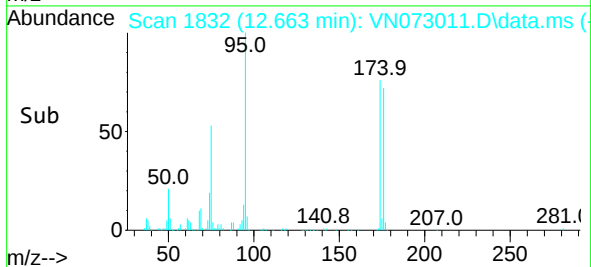
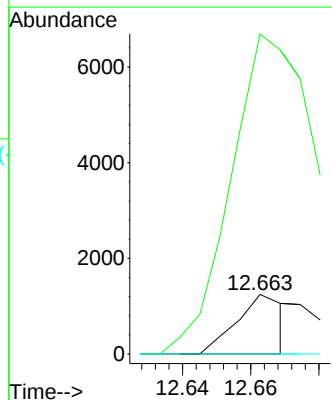
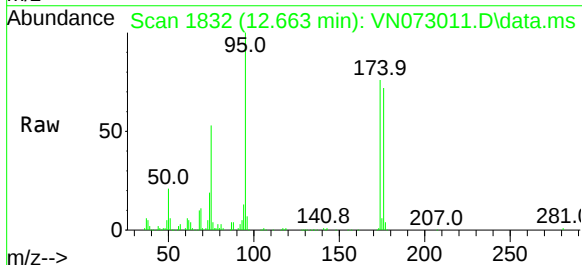
Instrument :
MSVOA_N
ClientSampleId :
DS-7WC

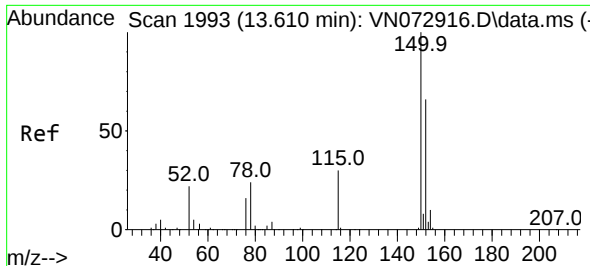
Tgt Ion:106 Resp: 2335
Ion Ratio Lower Upper
106 100
91 233.5 158.9 238.3



#71
Bromoform
Concen: 0.491 ug/l
RT: 12.663 min Scan# 1832
Delta R.T. 0.271 min
Lab File: VN073011.D
Acq: 22 Jun 2022 08:07

Tgt Ion:173 Resp: 1197
Ion Ratio Lower Upper
173 100
175 630.2 24.6 73.6#
254 0.0 0.1 0.1#

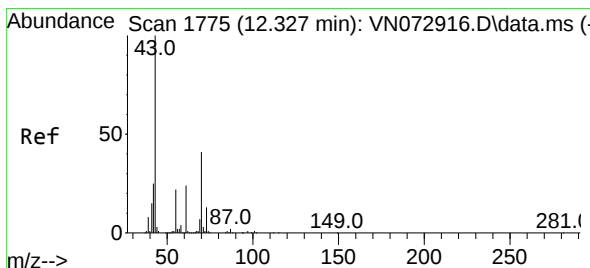
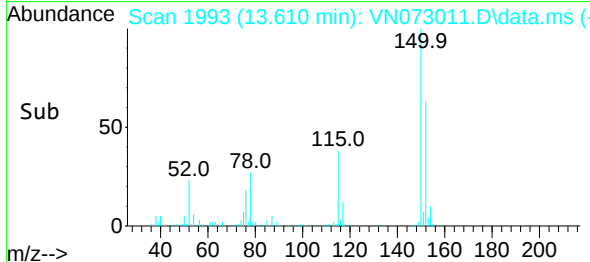
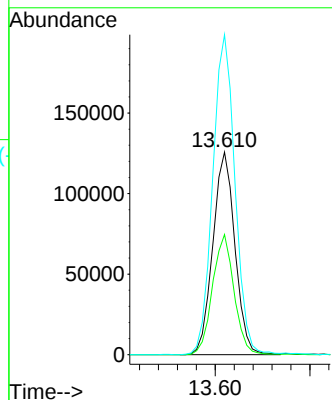
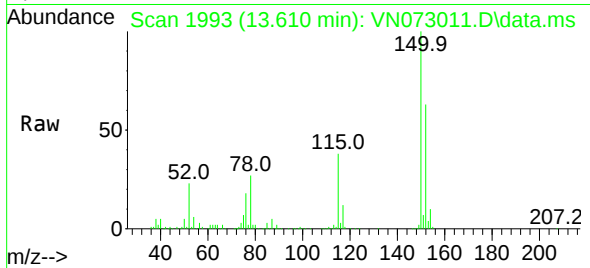




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.610 min Scan# 1993
Delta R.T. 0.000 min
Lab File: VN073011.D
Acq: 22 Jun 2022 08:07

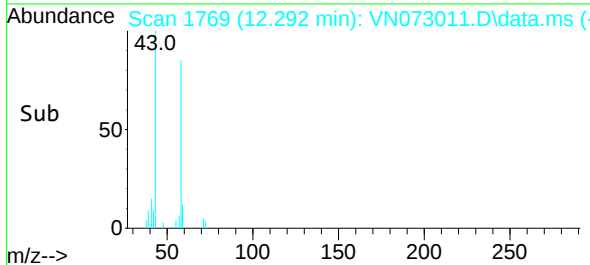
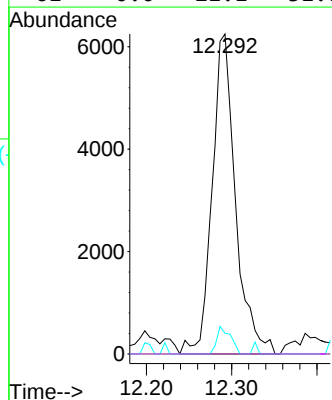
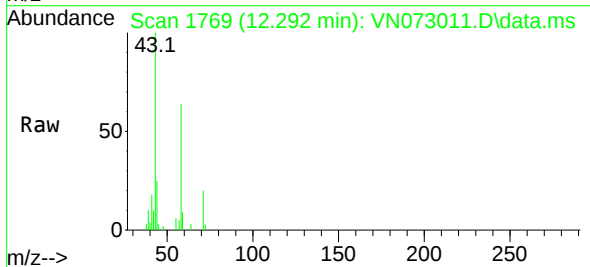
Instrument :
MSVOA_N
ClientSampleId :
DS-7WC

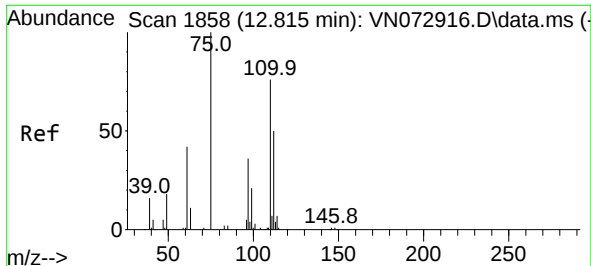
Tgt Ion:152 Resp: 203664
Ion Ratio Lower Upper
152 100
115 58.0 28.9 86.7
150 159.8 0.0 356.2



#74
N-ethyl acetate
Concen: 1.454 ug/l
RT: 12.292 min Scan# 1769
Delta R.T. -0.035 min
Lab File: VN073011.D
Acq: 22 Jun 2022 08:07

Tgt Ion: 43 Resp: 11891
Ion Ratio Lower Upper
43 100
70 0.0 39.0 58.4#
55 5.0 21.1 31.7#
61 0.0 21.1 31.7#

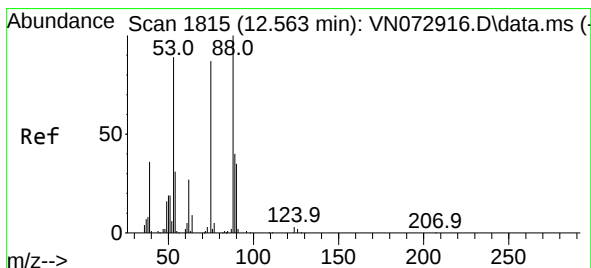
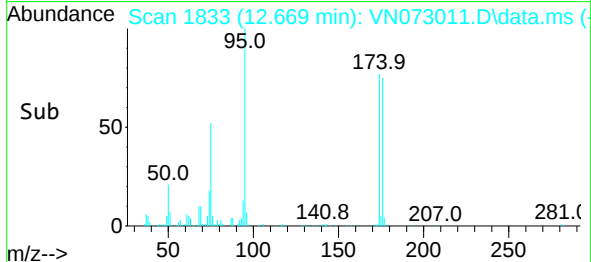
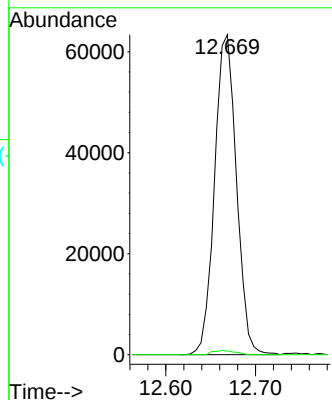
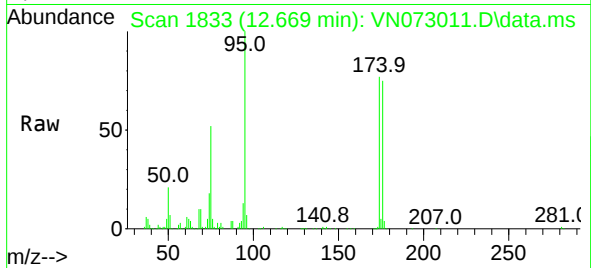




#76
1,2,3-Trichloropropane
Concen: 21.737 ug/l
RT: 12.669 min Scan# 1833
Delta R.T. -0.147 min
Lab File: VN073011.D
Acq: 22 Jun 2022 08:07

Instrument :
MSVOA_N
ClientSampleId :
DS-7WC

Tgt Ion: 75 Resp: 107335
Ion Ratio Lower Upper
75 100
77 1.3 98.5 295.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 58.705 ug/l
RT: 12.669 min Scan# 1833
Delta R.T. 0.106 min
Lab File: VN073011.D
Acq: 22 Jun 2022 08:07

Tgt Ion: 75 Resp: 107335
Ion Ratio Lower Upper
75 100
53 0.1 78.0 117.0#
89 0.0 37.2 55.8#

