

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN110618\
 Data File : VN052191.D
 Acq On : 6 Nov 2018 14:48
 Operator : MD\SY
 Sample : J5827-10
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 SP-A

Quant Time: Nov 06 15:23:11 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 05 15:24:48 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	302537	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	540920	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	536325	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	221241	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	237351	66.16	ug/l	0.00
Spiked Amount			Recovery	=	132.32%	
35) Dibromofluoromethane	7.59	113	209461	62.37	ug/l	0.00
Spiked Amount			Recovery	=	124.74%	
50) Toluene-d8	10.09	98	812598	62.58	ug/l	0.00
Spiked Amount			Recovery	=	125.16%	
62) 4-Bromofluorobenzene	12.40	95	277864	65.19	ug/l	0.00
Spiked Amount			Recovery	=	130.38%	

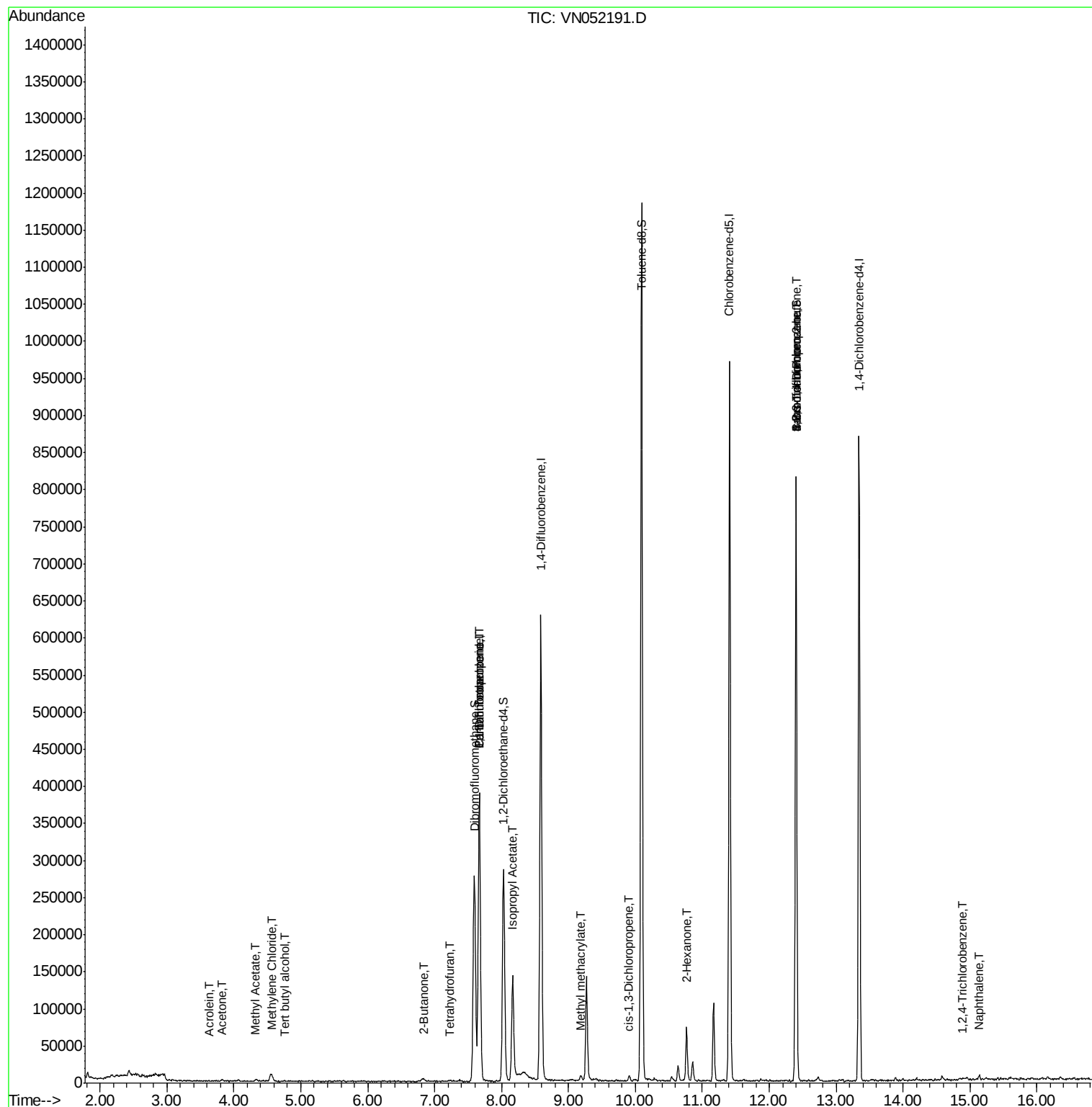
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.76	59	103	0.658	ug/l #	76
13) Acrolein	3.62	56	31	32.552	ug/l #	12
16) Acetone	3.82	43	3396	4.178	ug/l	95
18) Methyl Acetate	4.32	43	4839	1.924	ug/l #	72
20) Methylene Chloride	4.55	84	6468	1.915	ug/l	93
25) 2-Butanone	6.85	43	1318	1.046	ug/l #	86
29) Tetrahydrofuran	7.22	42	559	0.717	ug/l	95
31) Cyclohexane	7.67	56	8061	Below Cal	#	12
36) 1,1-Dichloropropene	7.67	75	24387	5.096	ug/l #	52
38) Carbon Tetrachloride	7.67	117	31489	6.587	ug/l #	17
43) Isopropyl Acetate	8.17	43	174475	31.956	ug/l	99
48) Methyl methacrylate	9.18	41	4217	1.605	ug/l #	18
49) 1,4-Dioxane	9.27	88	31	Below Cal	#	1
54) cis-1,3-Dichloropropene	9.90	75	1456	0.275	ug/l #	78
59) 2-Hexanone	10.76	43	10291	5.125	ug/l #	63
71) Bromoform	12.40	173	940	3.158	ug/l #	1
74) N-amyl acetate	12.07	43	501	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	143154	48.954	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	143154	147.221	ug/l #	9
93) 1,2,4-Trichlorobenzene	14.90	180	95	2.265	ug/l #	1
95) Naphthalene	15.14	128	4990	0.737	ug/l #	82

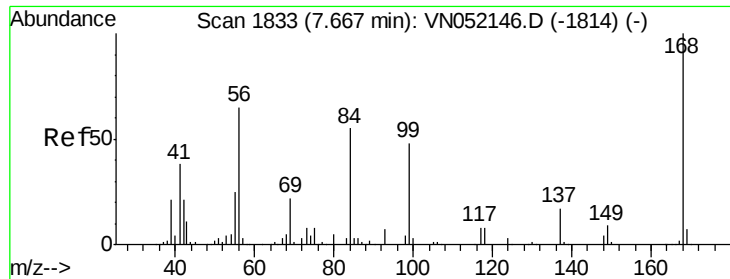
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN052191.D

Acq: 6 Nov 2018 14:48

Instrument :

MSVOA_N

ClientSampleId :

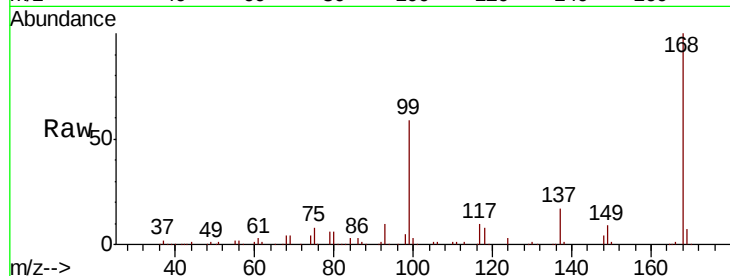
SP-A

Tgt Ion:168 Resp: 302537

Ion Ratio Lower Upper

168 100

99 59.5 56.6 85.0



Abundance Ion 167.90 (167.60 to 168.60): VN052191.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN052191.D (-1740) (-)

7.67

150000

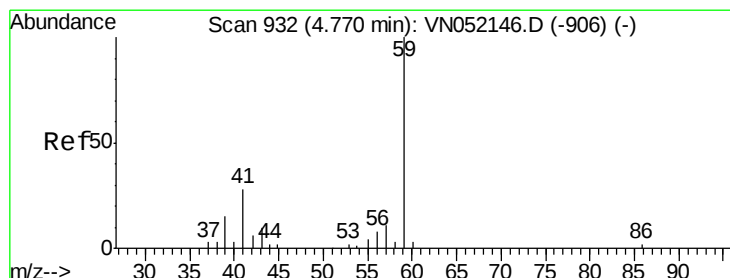
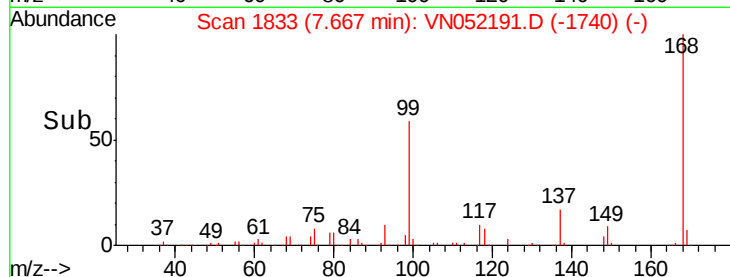
100000

50000

0

7.60 7.70 7.80

Time-->



#11

Tert butyl alcohol

Concen: 0.658 ug/l

RT: 4.76 min Scan# 930

Delta R.T. -0.01 min

Lab File: VN052191.D

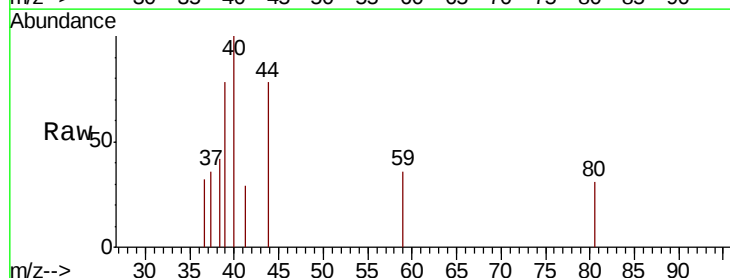
Acq: 6 Nov 2018 14:48

Tgt Ion: 59 Resp: 103

Ion Ratio Lower Upper

59 100

57 0.0 7.0 10.6#



Abundance Ion 59.00 (58.70 to 59.70): VN052191.D (-839) (-)

Ion 57.00 (56.70 to 57.70): VN052191.D (-839) (-)

4.76

200

150

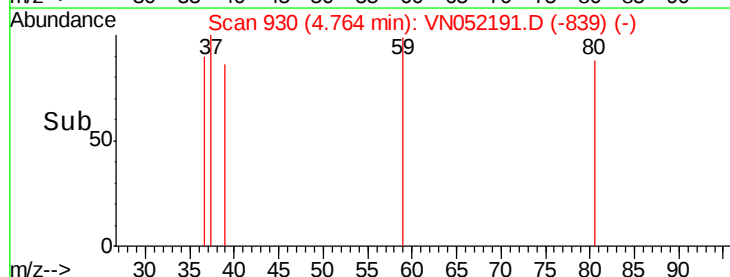
100

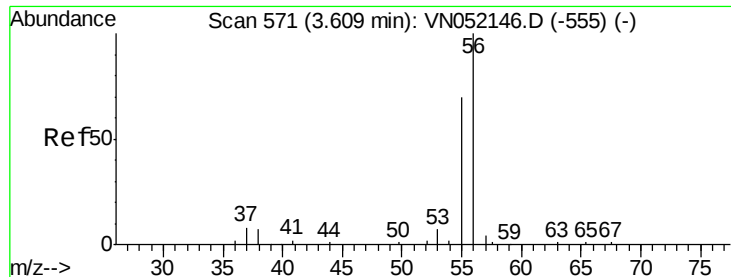
50

0

4.75 4.76 4.77 4.78

Time-->





#13

Acrolein

Concen: 32.552 ug/l

RT: 3.62 min Scan# 573

Delta R.T. 0.01 min

Lab File: VN052191.D

Acq: 6 Nov 2018 14:48

Instrument :

MSVOA_N

ClientSampled :

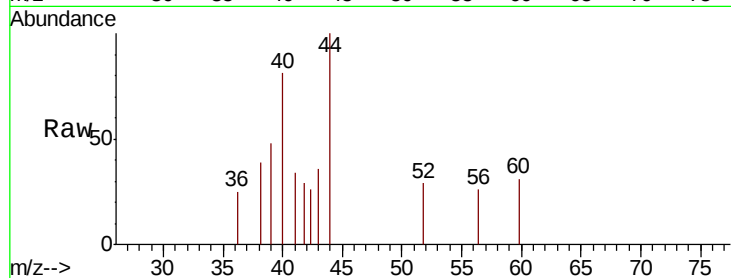
SP-A

Tgt Ion: 56 Resp: 31

Ion Ratio Lower Upper

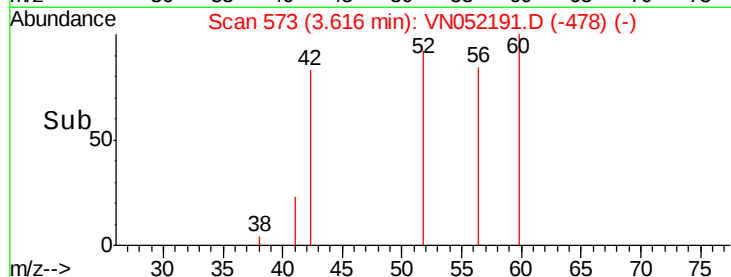
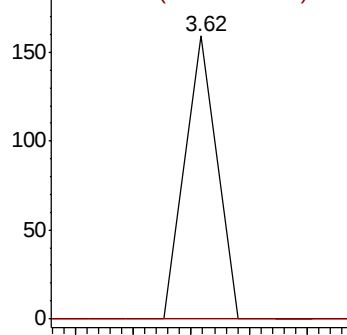
56 100

55 0.0 59.9 89.9#

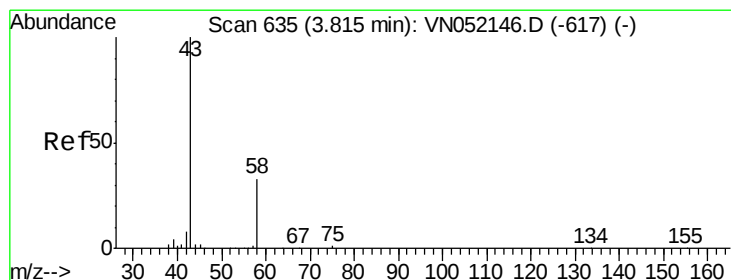


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



Time-->



#16

Acetone

Concen: 4.178 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN052191.D

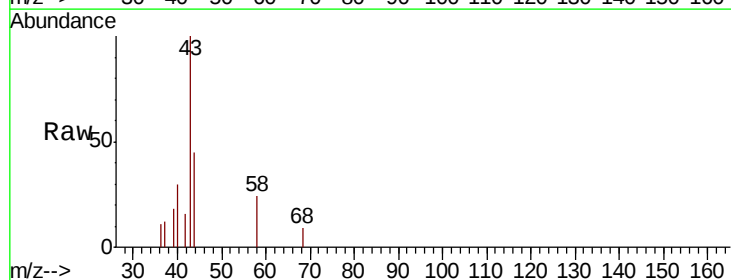
Acq: 6 Nov 2018 14:48

Tgt Ion: 43 Resp: 3396

Ion Ratio Lower Upper

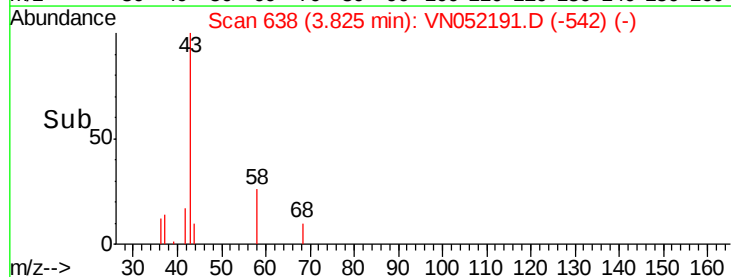
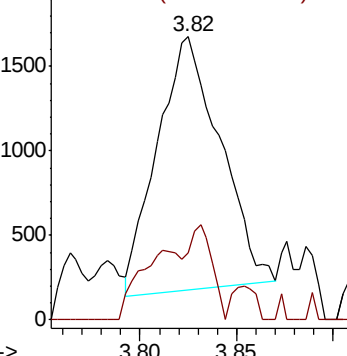
43 100

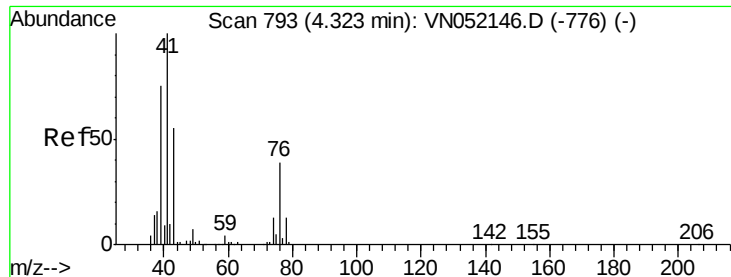
58 27.6 24.2 36.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

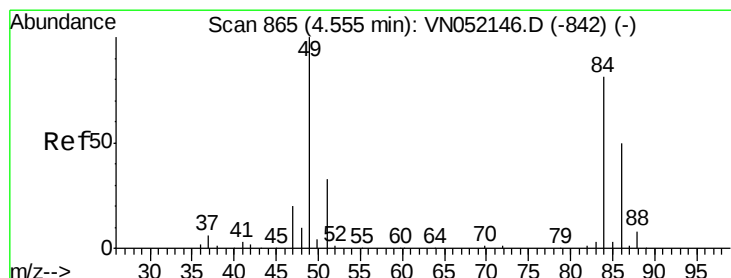
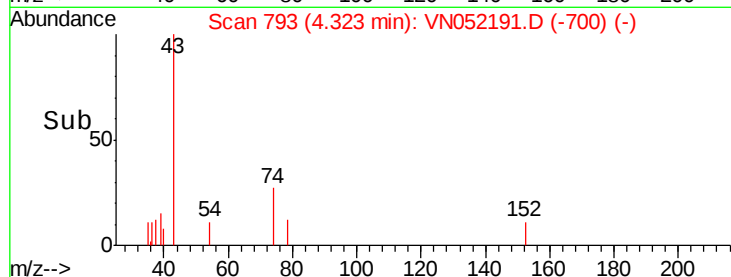
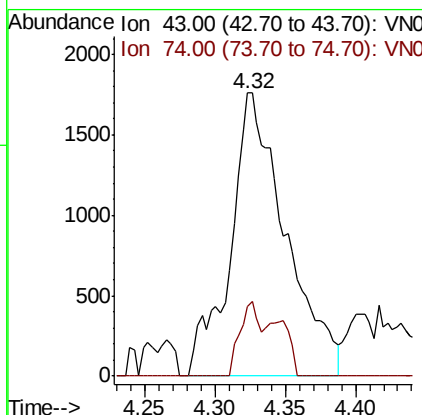
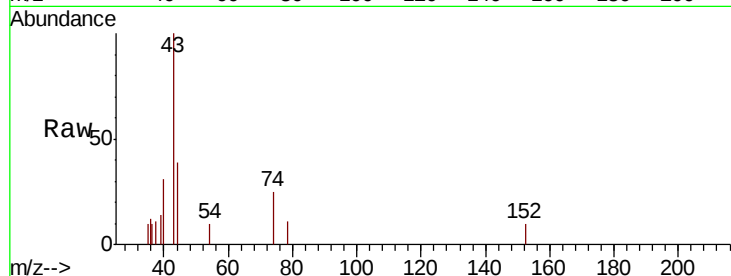




#18
Methyl Acetate
Concen: 1.924 ug/l
RT: 4.32 min Scan# 793
Delta R.T. 0.00 min
Lab File: VN052191.D
Acq: 6 Nov 2018 14:48

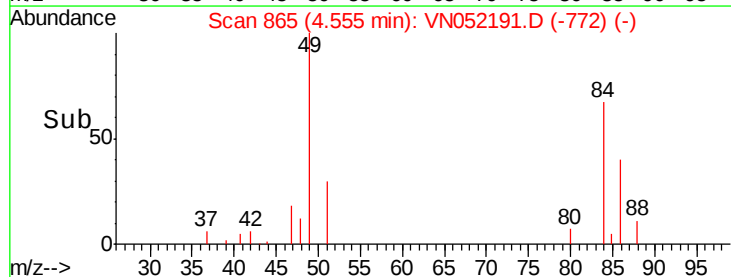
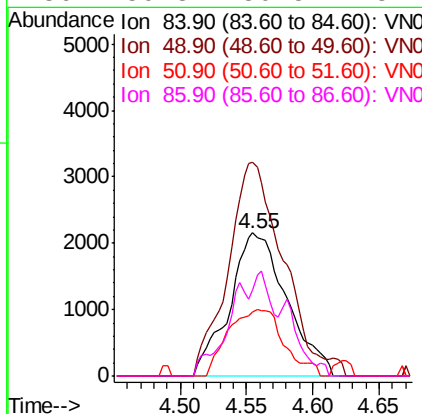
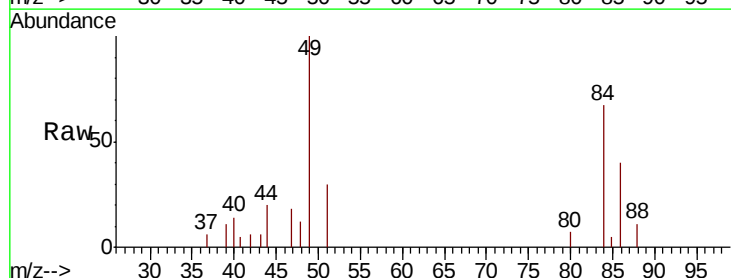
Instrument :
MSVOA_N
ClientSampled :
SP-A

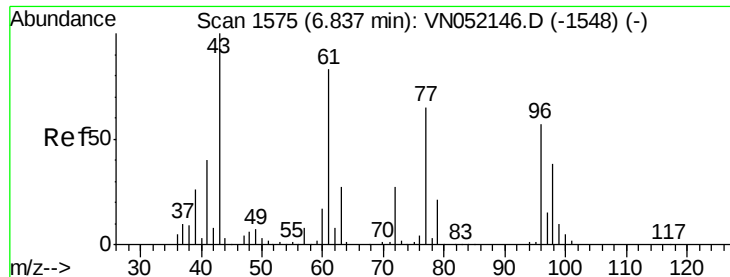
Tgt Ion: 43 Resp: 4839
Ion Ratio Lower Upper
43 100
74 9.2 17.9 26.9#



#20
Methylene Chloride
Concen: 1.915 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN052191.D
Acq: 6 Nov 2018 14:48

Tgt Ion: 84 Resp: 6468
Ion Ratio Lower Upper
84 100
49 149.4 110.6 165.8
51 44.9 33.7 50.5
86 59.8 50.5 75.7

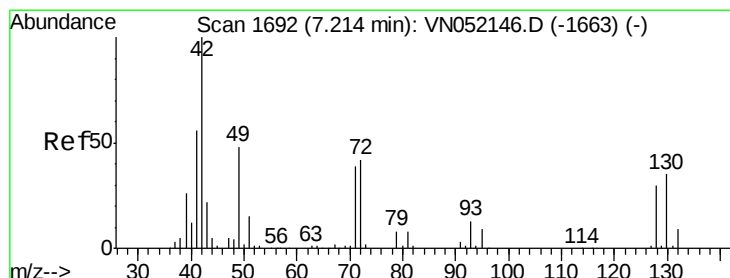
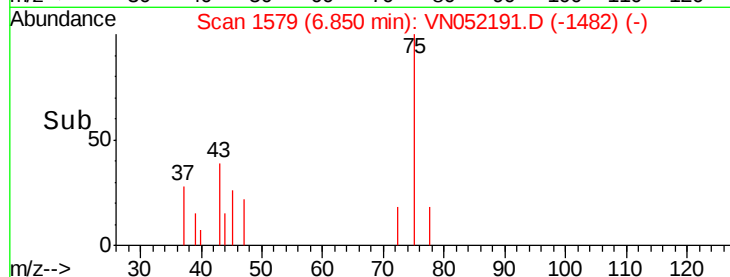
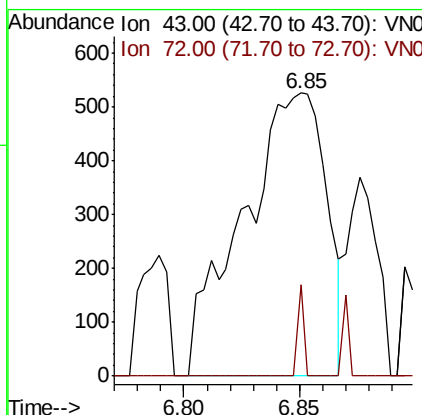
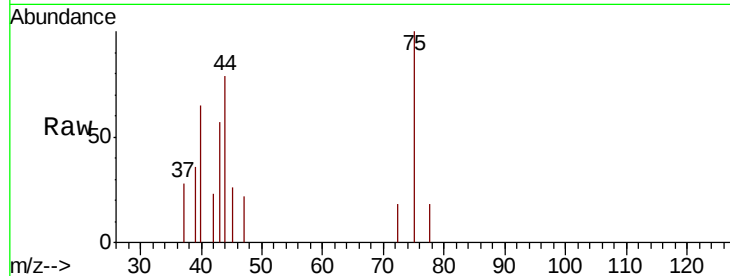




#25
2-Butanone
Concen: 1.046 ug/l
RT: 6.85 min Scan# 1579
Delta R.T. 0.01 min
Lab File: VN052191.D
Acq: 6 Nov 2018 14:48

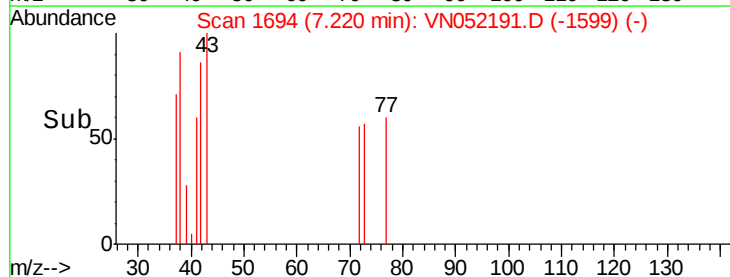
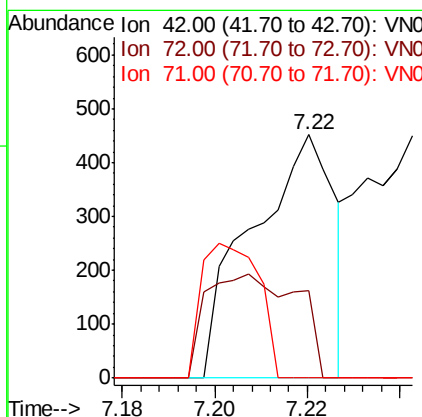
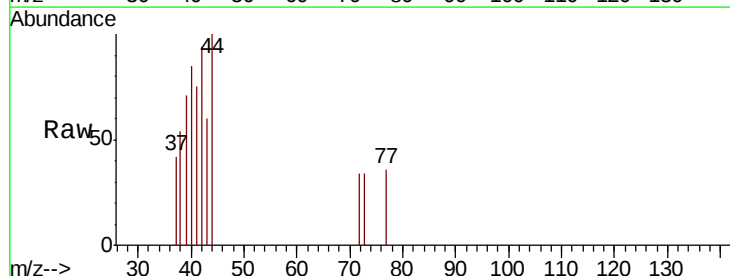
Instrument :
MSVOA_N
ClientSampled :
SP-A

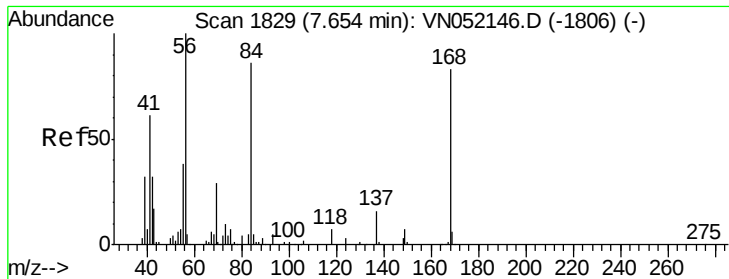
Tgt Ion: 43 Resp: 1318
Ion Ratio Lower Upper
43 100
72 32.3 20.2 30.2#



#29
Tetrahydrofuran
Concen: 0.717 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. 0.01 min
Lab File: VN052191.D
Acq: 6 Nov 2018 14:48

Tgt Ion: 42 Resp: 559
Ion Ratio Lower Upper
42 100
72 46.7 32.5 48.7
71 38.1 30.6 46.0

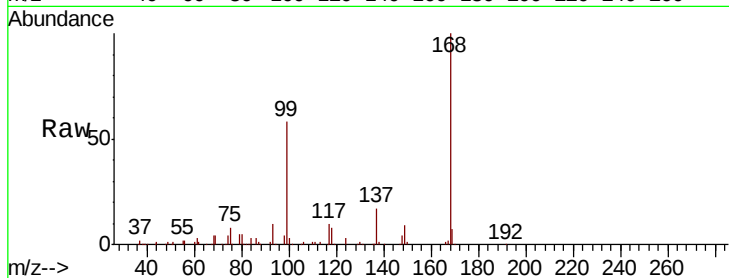




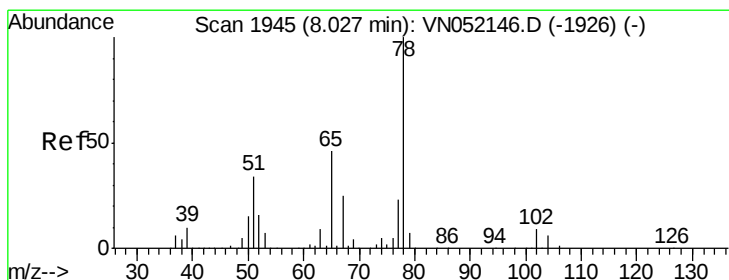
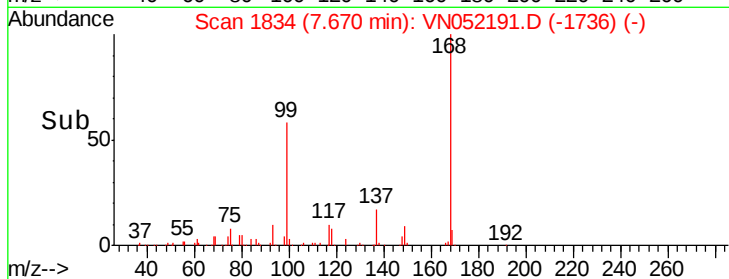
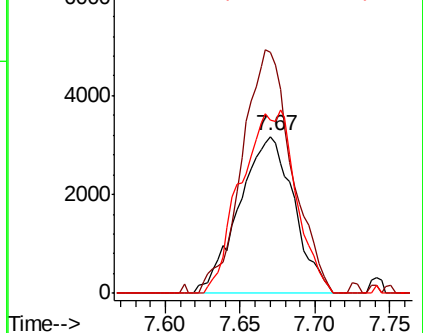
#31
Cyclohexane
Concen: Below Cal
RT: 7.67 min Scan# 1834
Delta R.T. 0.02 min
Lab File: VN052191.D
Acq: 6 Nov 2018 14:48

Instrument :
MSVOA_N
ClientSampleId :
SP-A

Tgt Ion: 56 Resp: 8061
Ion Ratio Lower Upper
56 100
69 153.9 25.8 38.6#
84 110.6 63.5 95.3#

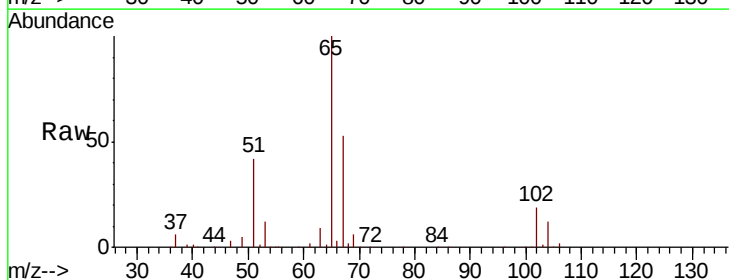


Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 84.00 (83.70 to 84.70): VNO

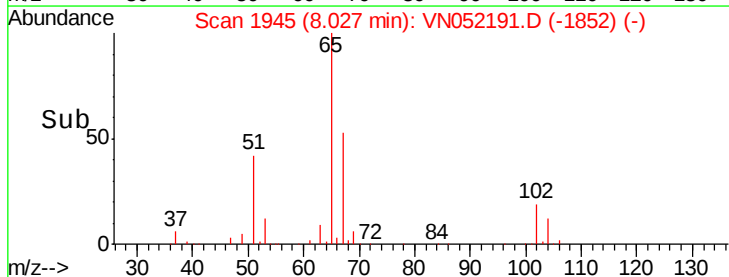
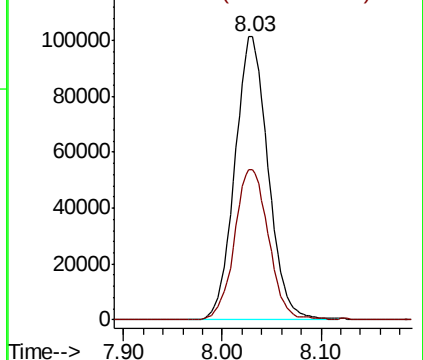


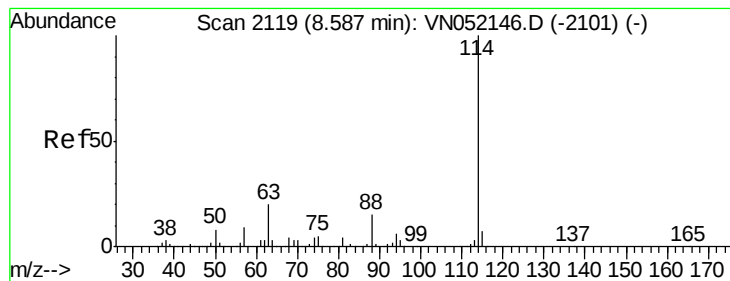
#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN052191.D
Acq: 6 Nov 2018 14:48

Tgt Ion: 65 Resp: 237351
Ion Ratio Lower Upper
65 100
67 54.4 0.0 105.2



Abundance Ion 64.90 (64.60 to 65.60): VNO
Ion 66.90 (66.60 to 67.60): VNO





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN052191.D

Acq: 6 Nov 2018 14:48

Instrument :

MSVOA_N

ClientSampleId :

SP-A

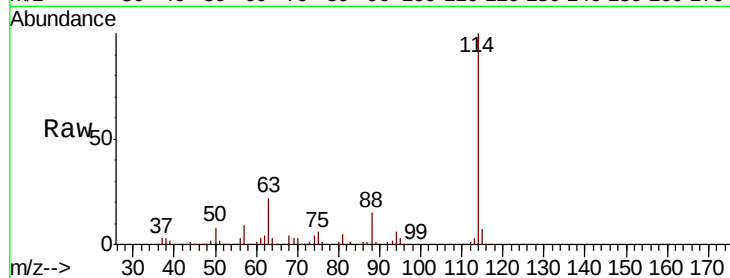
Tgt Ion:114 Resp: 540920

Ion Ratio Lower Upper

114 100

63 21.8 0.0 46.0

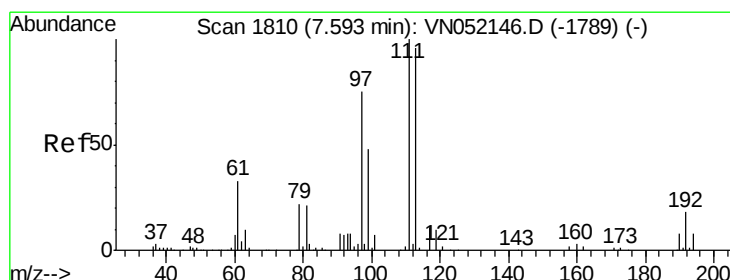
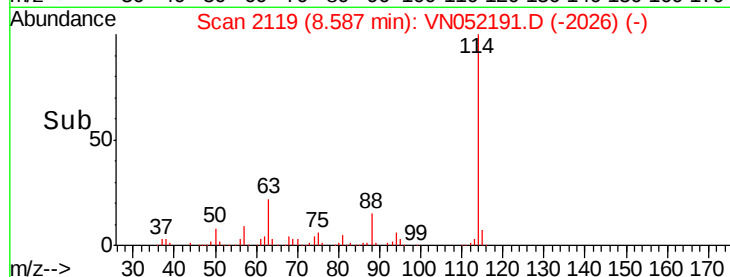
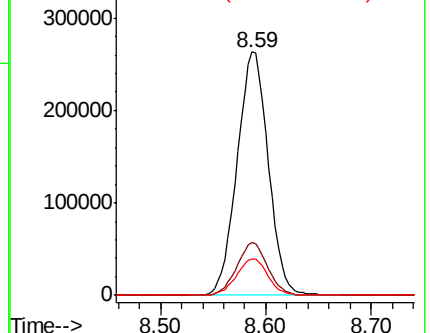
88 15.1 0.0 35.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN052191.D

Acq: 6 Nov 2018 14:48

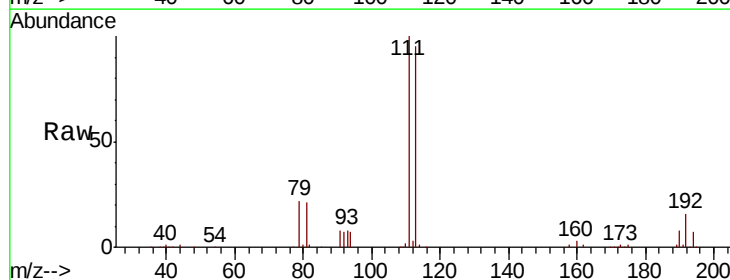
Tgt Ion:113 Resp: 209461

Ion Ratio Lower Upper

113 100

111 104.5 83.1 124.7

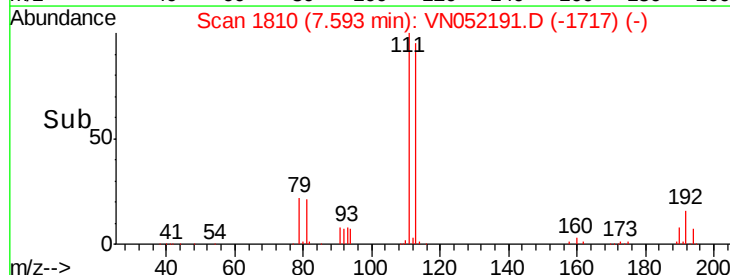
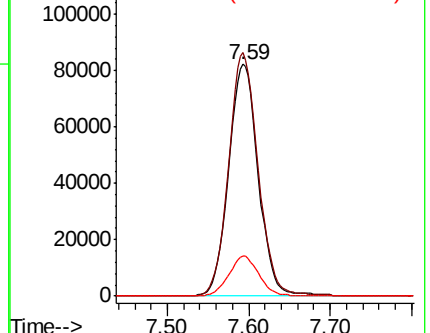
192 17.5 12.7 19.1

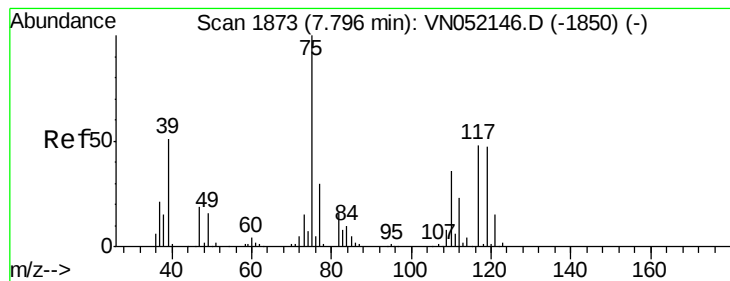


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.096 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN052191.D

Acq: 6 Nov 2018 14:48

Instrument :

MSVOA_N

ClientSampled :

SP-A

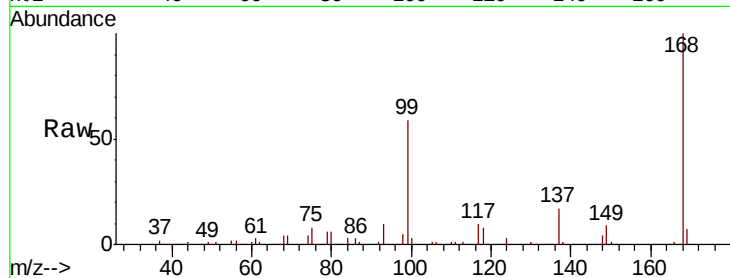
Tgt Ion: 75 Resp: 24387

Ion Ratio Lower Upper

75 100

110 9.7 16.0 48.0#

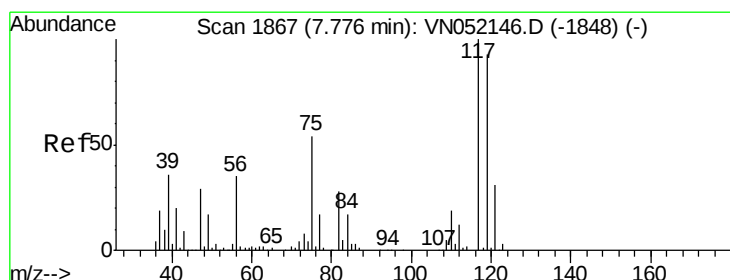
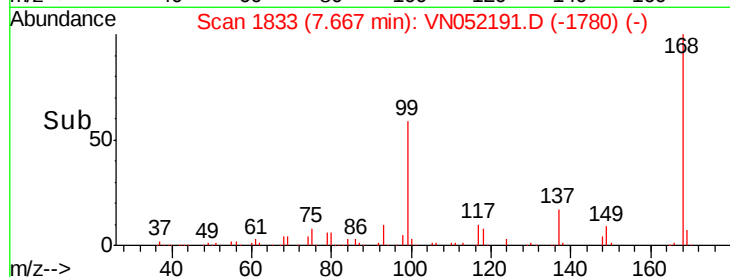
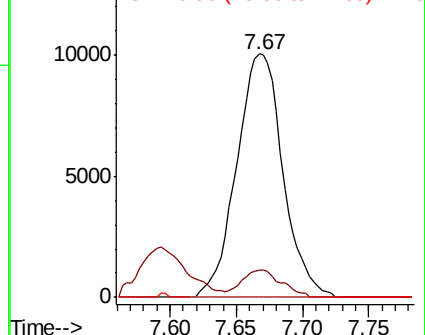
77 0.0 24.5 36.7#



Abundance Ion 74.90 (74.60 to 75.60): VN052191.D (-1780) (-)

Ion 109.90 (109.60 to 110.60): VN052191.D (-1780) (-)

Ion 76.90 (76.60 to 77.60): VN052191.D (-1780) (-)



#38

Carbon Tetrachloride

Concen: 6.587 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN052191.D

Acq: 6 Nov 2018 14:48

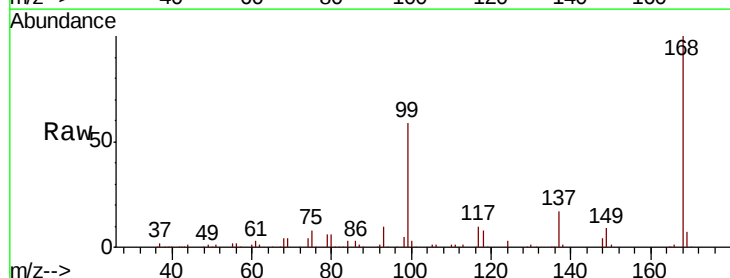
Tgt Ion: 117 Resp: 31489

Ion Ratio Lower Upper

117 100

119 4.7 74.8 112.2#

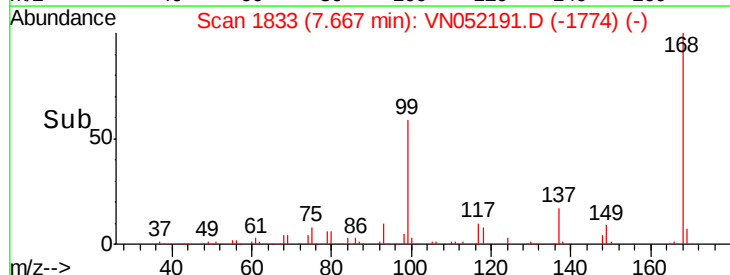
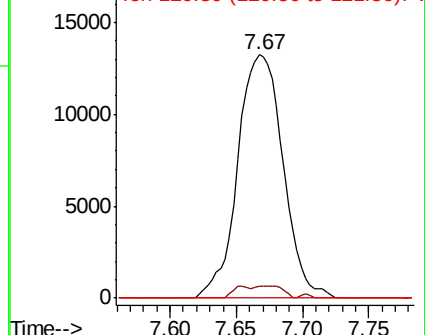
121 0.0 25.1 37.7#

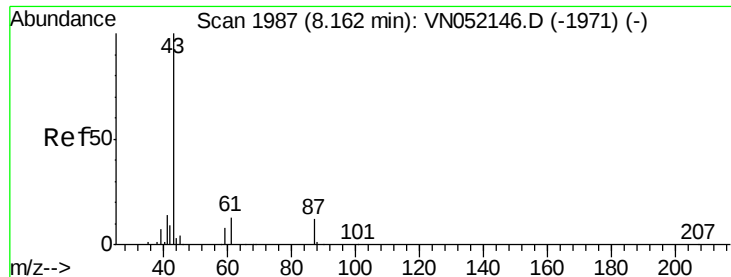


Abundance Ion 116.80 (116.50 to 117.50): VN052191.D (-1774) (-)

Ion 118.80 (118.50 to 119.50): VN052191.D (-1774) (-)

Ion 120.80 (120.50 to 121.50): VN052191.D (-1774) (-)

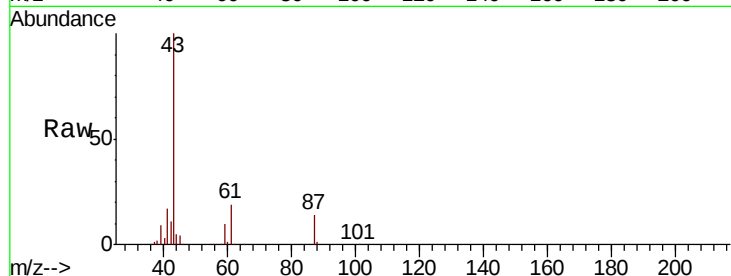




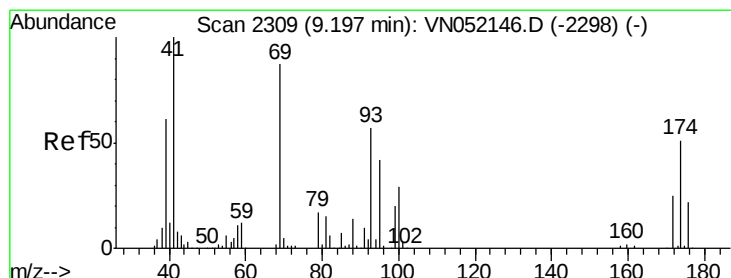
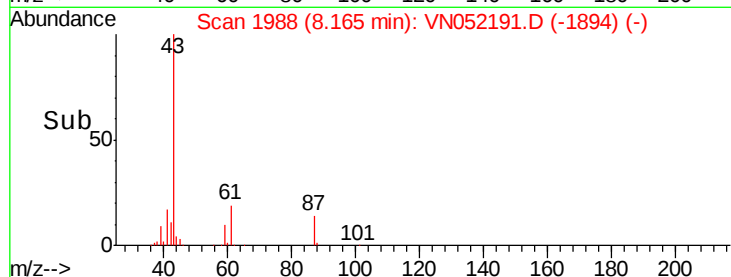
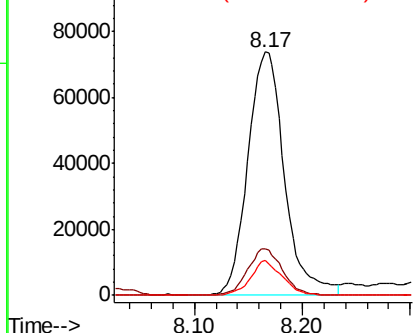
#43
Isopropyl Acetate
Concen: 31.956 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN052191.D
Acq: 6 Nov 2018 14:48

Instrument :
MSVOA_N
ClientSampleId :
SP-A

Tgt Ion: 43 Resp: 174475
Ion Ratio Lower Upper
43 100
61 18.2 15.4 23.0
87 12.3 9.8 14.8

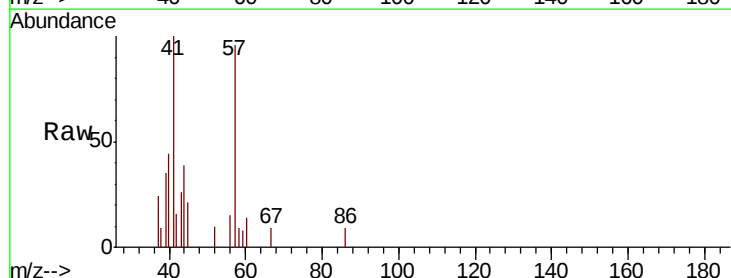


Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 61.00 (60.70 to 61.70): VNO
Ion 87.00 (86.70 to 87.70): VNO

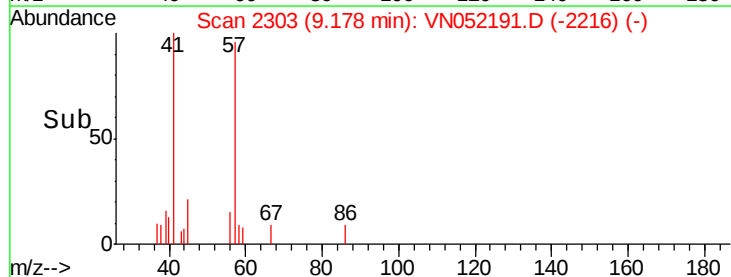
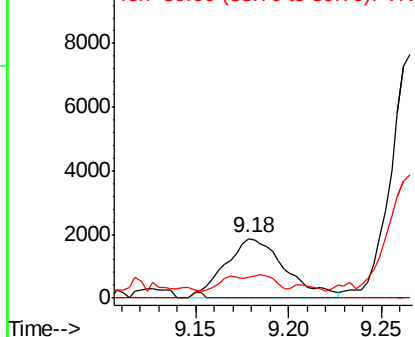


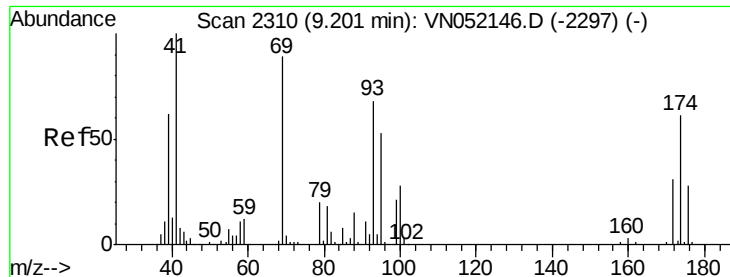
#48
Methyl methacrylate
Concen: 1.605 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN052191.D
Acq: 6 Nov 2018 14:48

Tgt Ion: 41 Resp: 4217
Ion Ratio Lower Upper
41 100
69 0.0 67.1 100.7#
39 10.0 50.5 75.7#



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 39.00 (38.70 to 39.70): VNO





#49

1,4-Dioxane

Concen: Below Cal

RT: 9.27 min Scan# 2331

Delta R.T. 0.07 min

Lab File: VN052191.D

Acq: 6 Nov 2018 14:48

Instrument :

MSVOA_N

ClientSampled :

SP-A

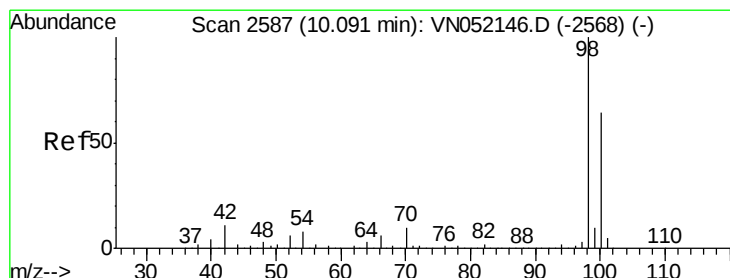
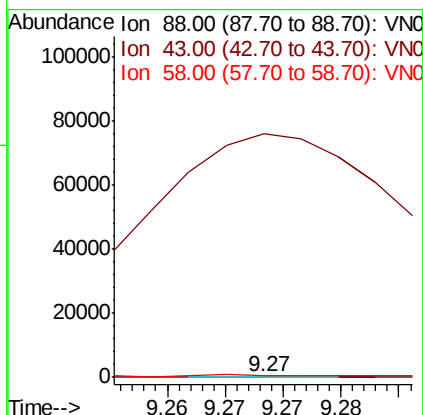
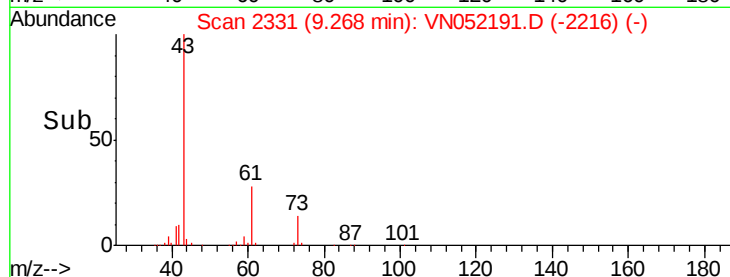
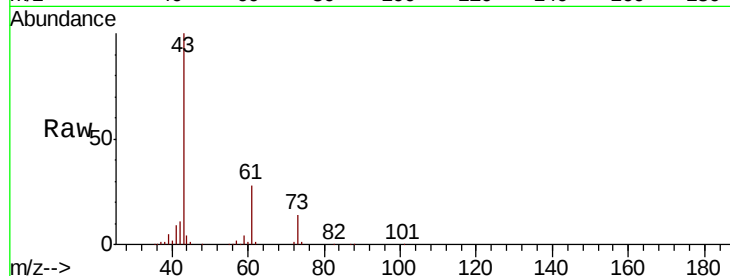
Tgt Ion: 88 Resp: 31

Ion Ratio Lower Upper

88 100

43 472545.2 34.1 51.1#

58 1867.7 62.8 94.2#



#50

Toluene-d8

Concen: Below ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052191.D

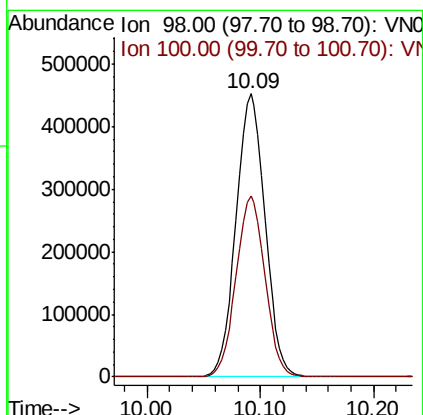
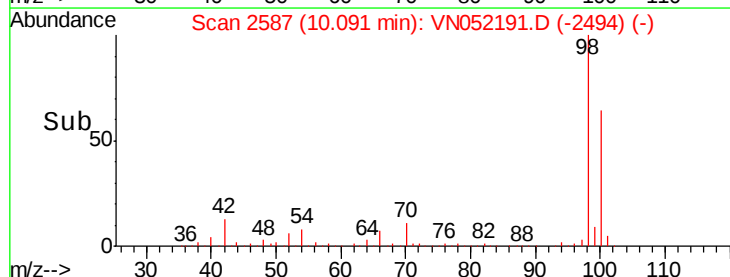
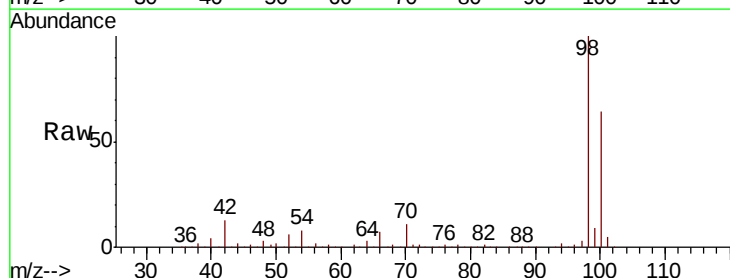
Acq: 6 Nov 2018 14:48

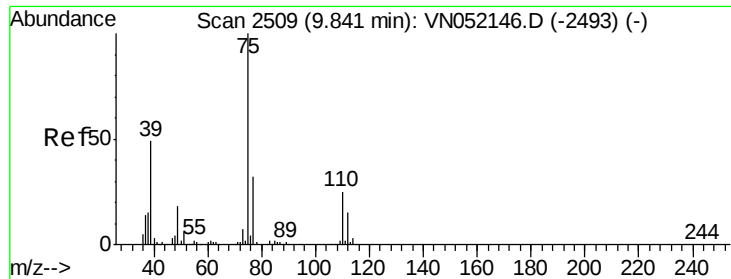
Tgt Ion: 98 Resp: 812598

Ion Ratio Lower Upper

98 100

100 63.6 51.4 77.2





#54

cis-1,3-Dichloropropene

Concen: 0.275 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN052191.D

Acq: 6 Nov 2018 14:48

Instrument :

MSVOA_N

ClientSampleId :

SP-A

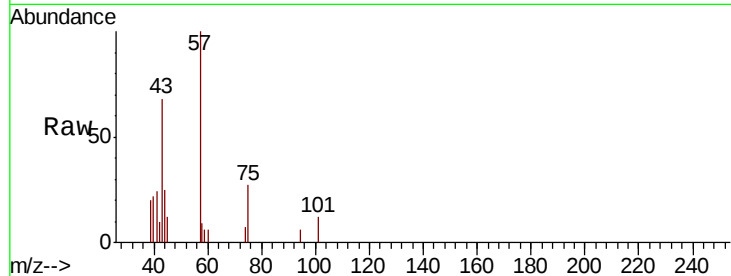
Tgt Ion: 75 Resp: 1456

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.4#

39 51.5 42.3 63.5



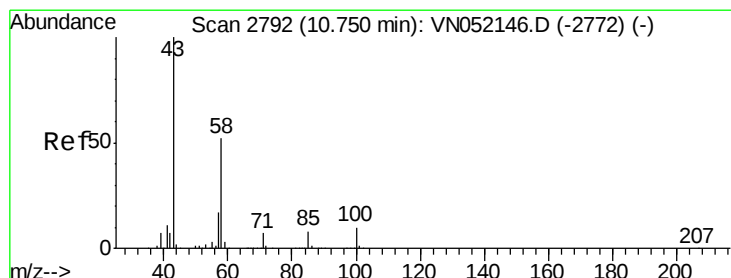
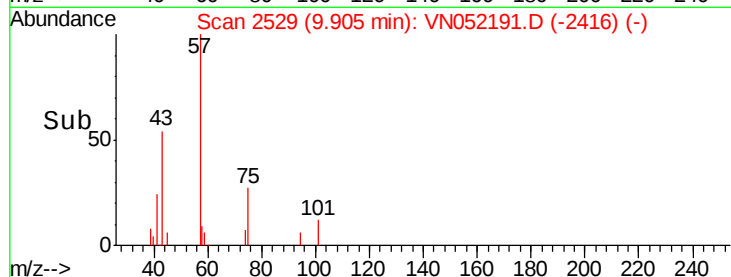
Abundance Ion 74.90 (74.60 to 75.60): VN052146.D (-2493) (-)

Ion 76.90 (76.60 to 77.60): VN052146.D (-2493) (-)

Ion 39.00 (38.70 to 39.70): VN052146.D (-2493) (-)

9.90

Time--> 9.85 9.90 9.95



#59

2-Hexanone

Concen: 5.125 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN052191.D

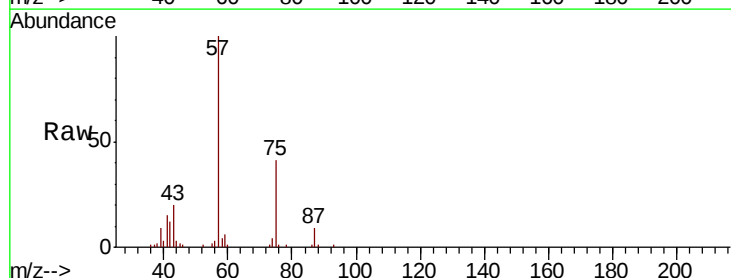
Acq: 6 Nov 2018 14:48

Tgt Ion: 43 Resp: 10291

Ion Ratio Lower Upper

43 100

58 24.7 25.2 75.6#

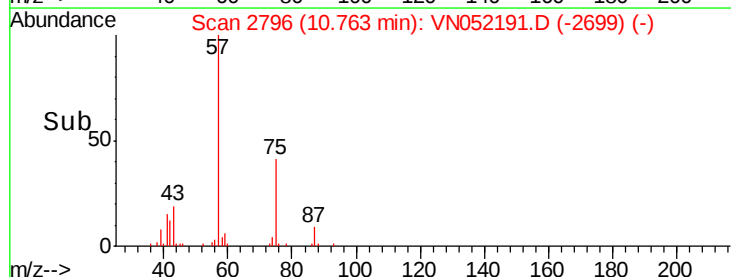


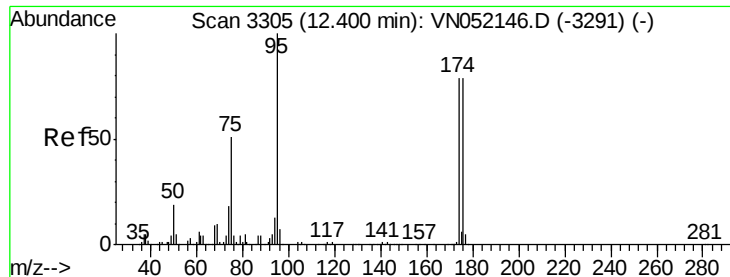
Abundance Ion 43.00 (42.70 to 43.70): VN052146.D (-2772) (-)

Ion 58.00 (57.70 to 58.70): VN052146.D (-2772) (-)

10.76

Time--> 10.70 10.75 10.80





#62

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN052191.D

Acq: 6 Nov 2018 14:48

Instrument :

MSVOA_N

ClientSampleId :

SP-A

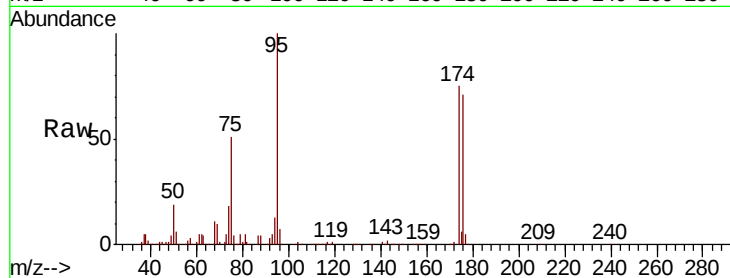
Tgt Ion: 95 Resp: 277864

Ion Ratio Lower Upper

95 100

174 75.0 0.0 131.8

176 72.4 0.0 126.0



Abundance Ion 94.90 (94.60 to 95.60): VN052146.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN052146.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN052146.D (-3291) (-)

12.40

150000

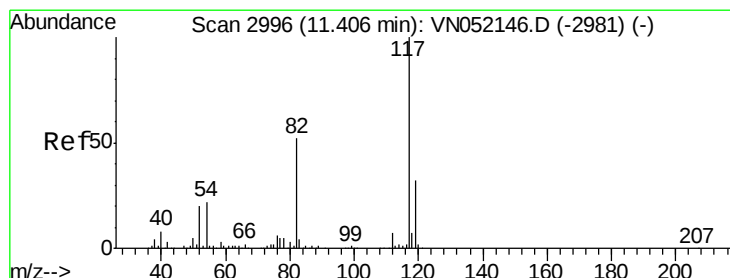
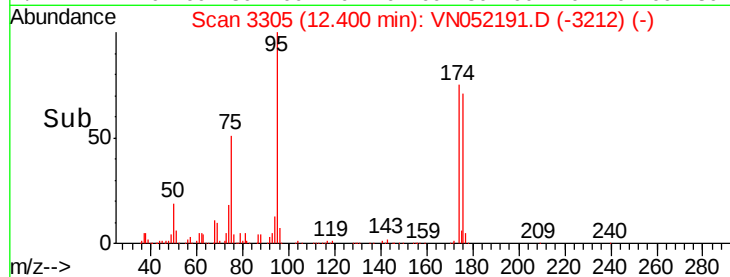
100000

50000

0

12.35 12.40 12.45

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN052191.D

Acq: 6 Nov 2018 14:48

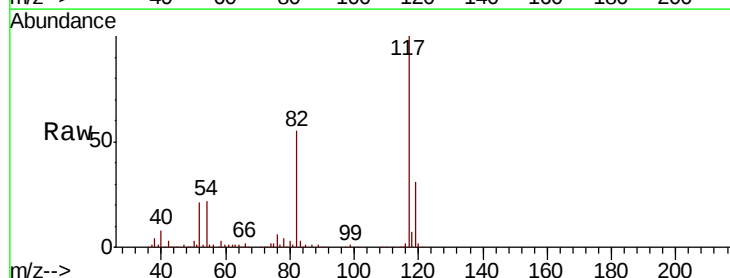
Tgt Ion: 117 Resp: 536325

Ion Ratio Lower Upper

117 100

82 55.3 49.9 74.9

119 31.3 25.7 38.5



Abundance Ion 116.90 (116.60 to 117.60): VN052146.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN052146.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN052146.D (-2981) (-)

11.41

400000

300000

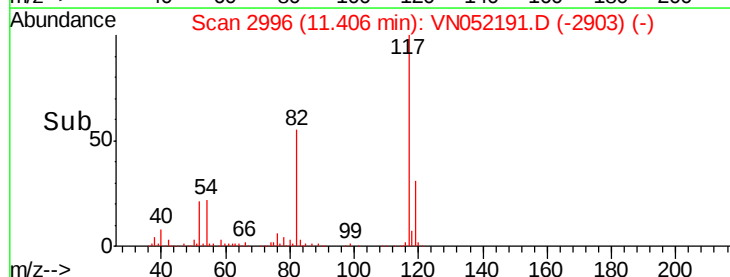
200000

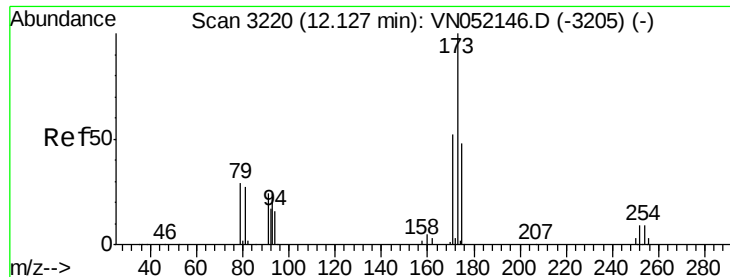
100000

0

11.30 11.40 11.50

Time-->





#71

Bromoform

Concen: 3.158 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.27 min

Lab File: VN052191.D

Acq: 6 Nov 2018 14:48

Instrument :

MSVOA_N

ClientSampled :

SP-A

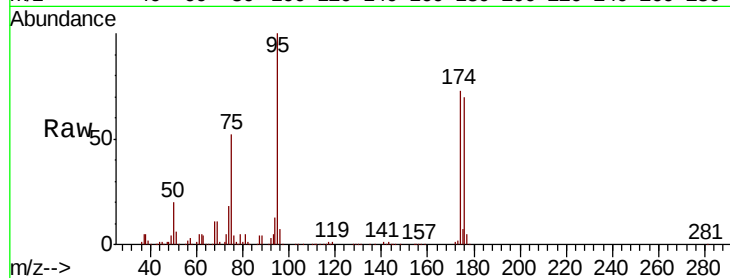
Tgt Ion:173 Resp: 940

Ion Ratio Lower Upper

173 100

175 1585.2 23.9 71.7#

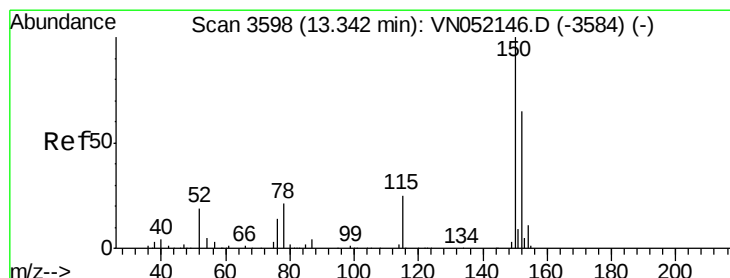
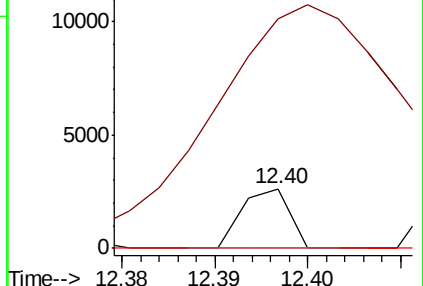
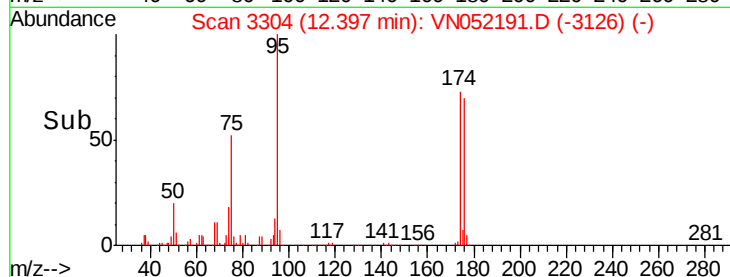
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN052191.D

Acq: 6 Nov 2018 14:48

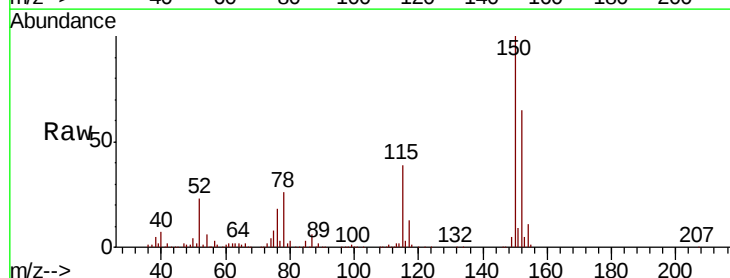
Tgt Ion:152 Resp: 221241

Ion Ratio Lower Upper

152 100

115 60.8 31.6 95.0

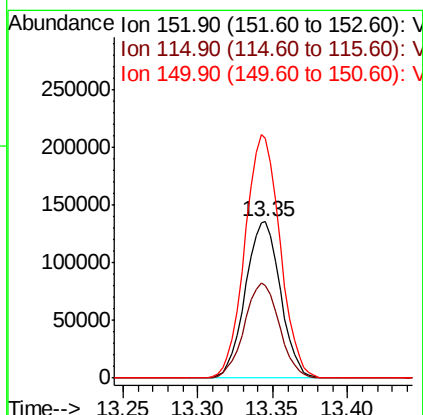
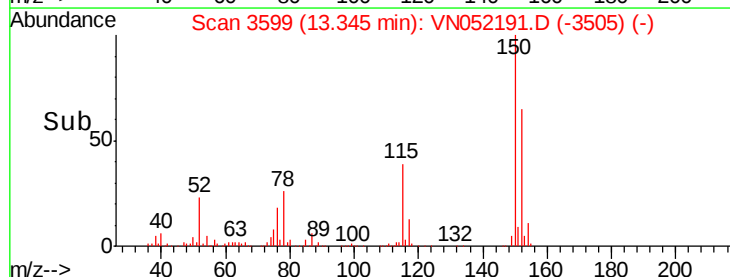
150 155.9 0.0 345.0

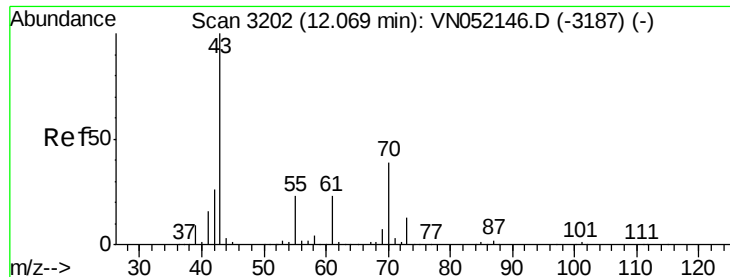


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-ethyl acetate

Concen: Below Cal

RT: 12.07 min Scan# 3201

Delta R.T. -0.00 min

Lab File: VN052191.D

Acq: 6 Nov 2018 14:48

Instrument :

MSVOA_N

ClientSampled :

SP-A

Tgt Ion: 43 Resp: 501

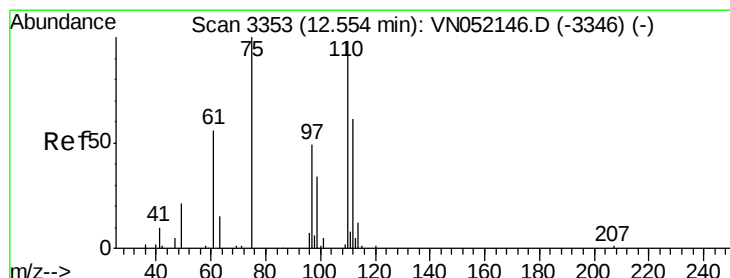
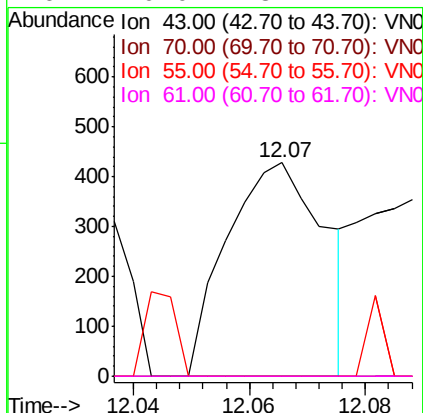
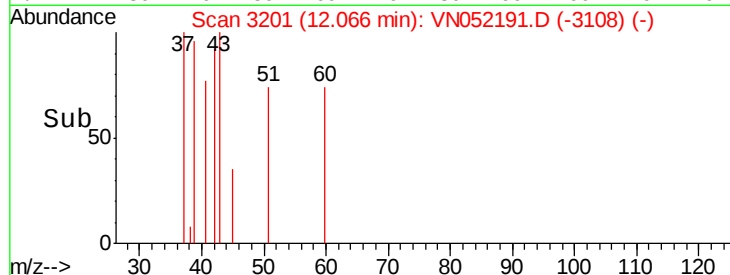
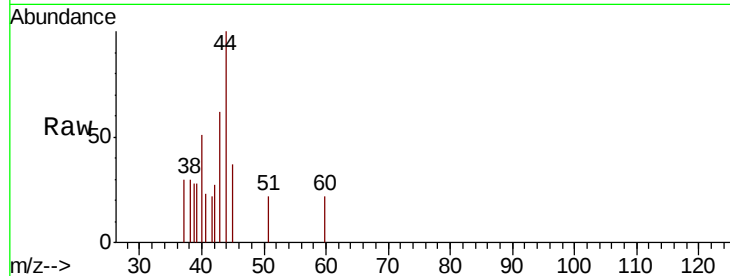
Ion Ratio Lower Upper

43 100

70 0.0 31.9 47.9#

55 6.2 18.4 27.6#

61 0.0 18.2 27.4#



#76

1,2,3-Trichloropropane

Concen: 48.954 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052191.D

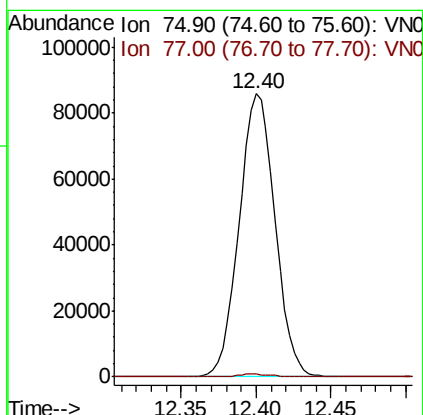
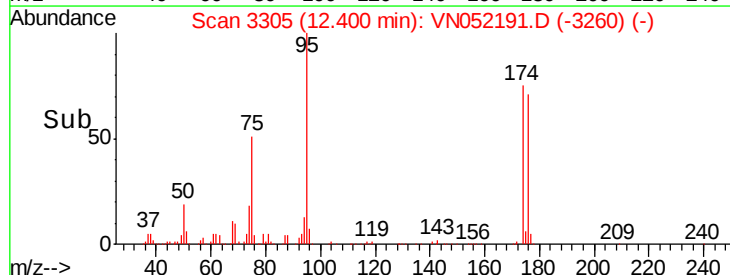
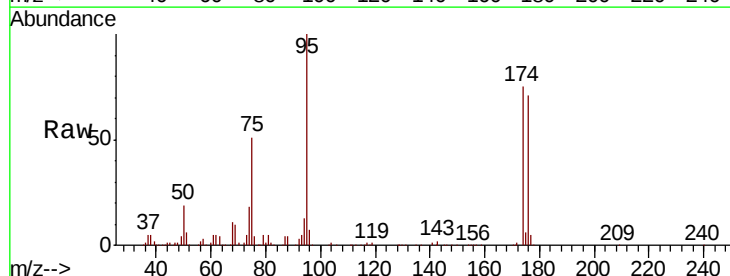
Acq: 6 Nov 2018 14:48

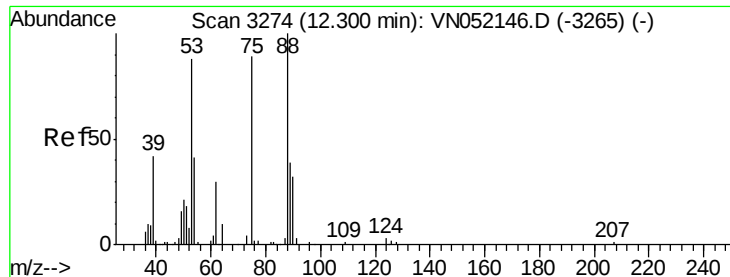
Tgt Ion: 75 Resp: 143154

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#

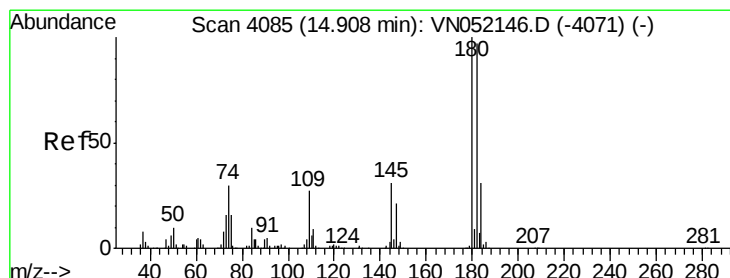
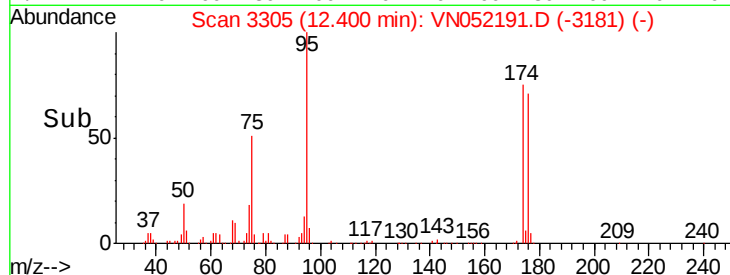
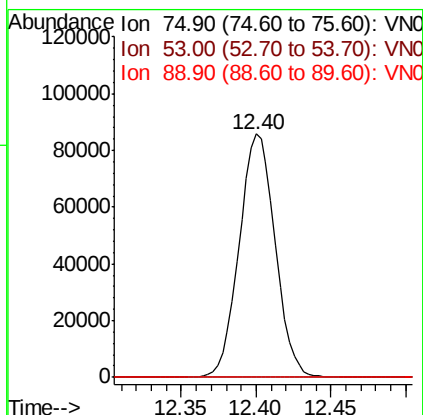
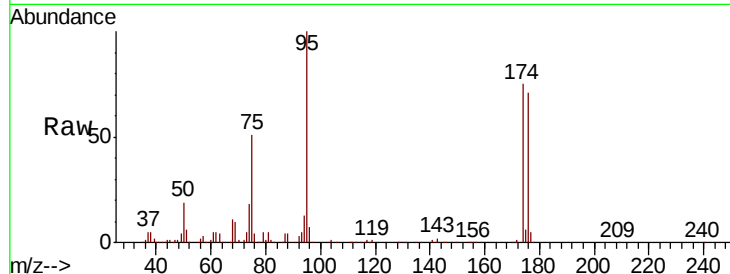




#81
 trans-1,4-Dichloro-2-butene
 Concen: 147.221 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN052191.D
 Acq: 6 Nov 2018 14:48

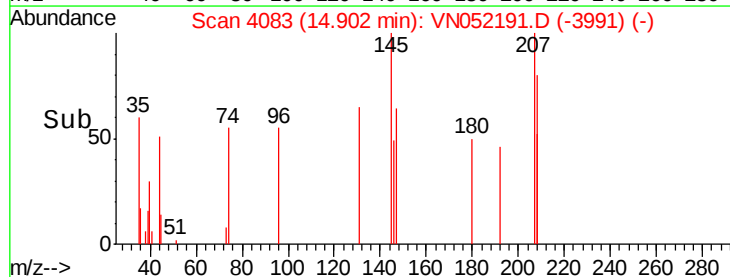
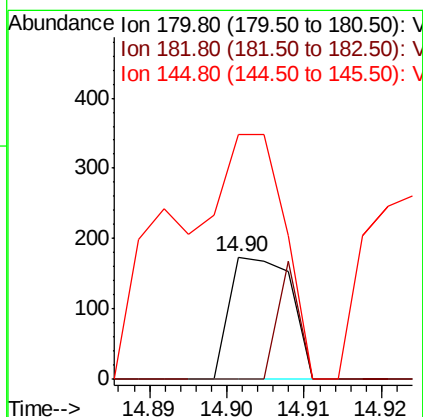
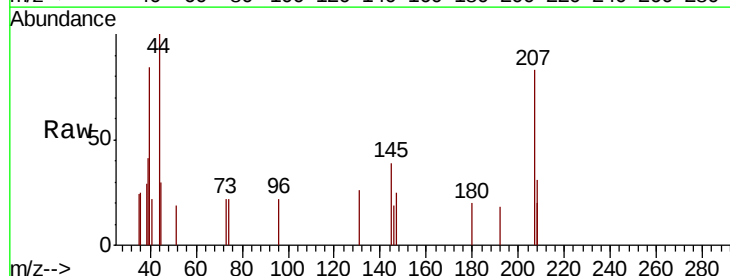
Instrument :
 MSVOA_N
 ClientSampled :
 SP-A

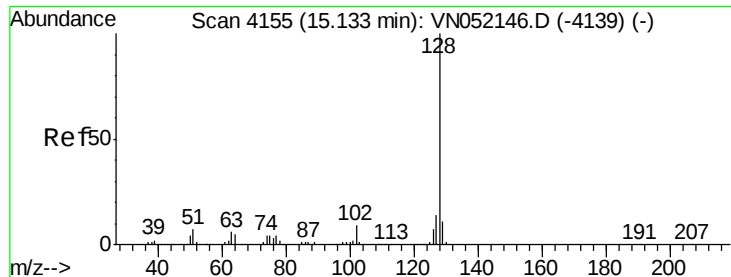
Tgt Ion: 75 Resp: 143154
 Ion Ratio Lower Upper
 75 100
 53 0.0 81.8 122.6#
 89 0.0 36.6 54.8#



#93
 1,2,4-Trichlorobenzene
 Concen: 2.265 ug/l
 RT: 14.90 min Scan# 4083
 Delta R.T. -0.01 min
 Lab File: VN052191.D
 Acq: 6 Nov 2018 14:48

Tgt Ion: 180 Resp: 95
 Ion Ratio Lower Upper
 180 100
 182 33.7 49.1 147.4#
 145 361.1 16.4 49.2#





#95

Naphthalene

Concen: 0.737 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN052191.D

Acq: 6 Nov 2018 14:48

Instrument :

MSVOA_N

ClientSampleId :

SP-A

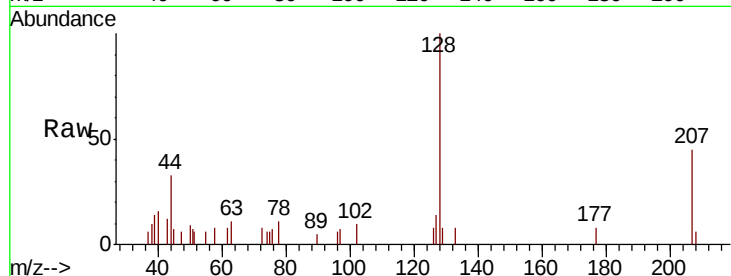
Tgt Ion:128 Resp: 4990

Ion Ratio Lower Upper

128 100

127 7.3 10.5 15.7#

129 2.4 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

