

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071818\
 Data File : VN049882.D
 Acq On : 18 Jul 2018 19:21
 Operator : MD\SY
 Sample : PB111206ZHE#14
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 19 01:22:04 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071818W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 18 13:09:48 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	563432	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	954149	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	794500	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	297574	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	409138	52.83	ug/l	0.00
Spiked Amount			Recovery	=	105.66%	
35) Dibromofluoromethane	7.59	113	356935	44.56	ug/l	0.00
Spiked Amount			Recovery	=	89.12%	
50) Toluene-d8	10.09	98	1260930	43.20	ug/l	0.00
Spiked Amount			Recovery	=	86.40%	
62) 4-Bromofluorobenzene	12.40	95	348933	34.72	ug/l	0.00
Spiked Amount			Recovery	=	69.44%	

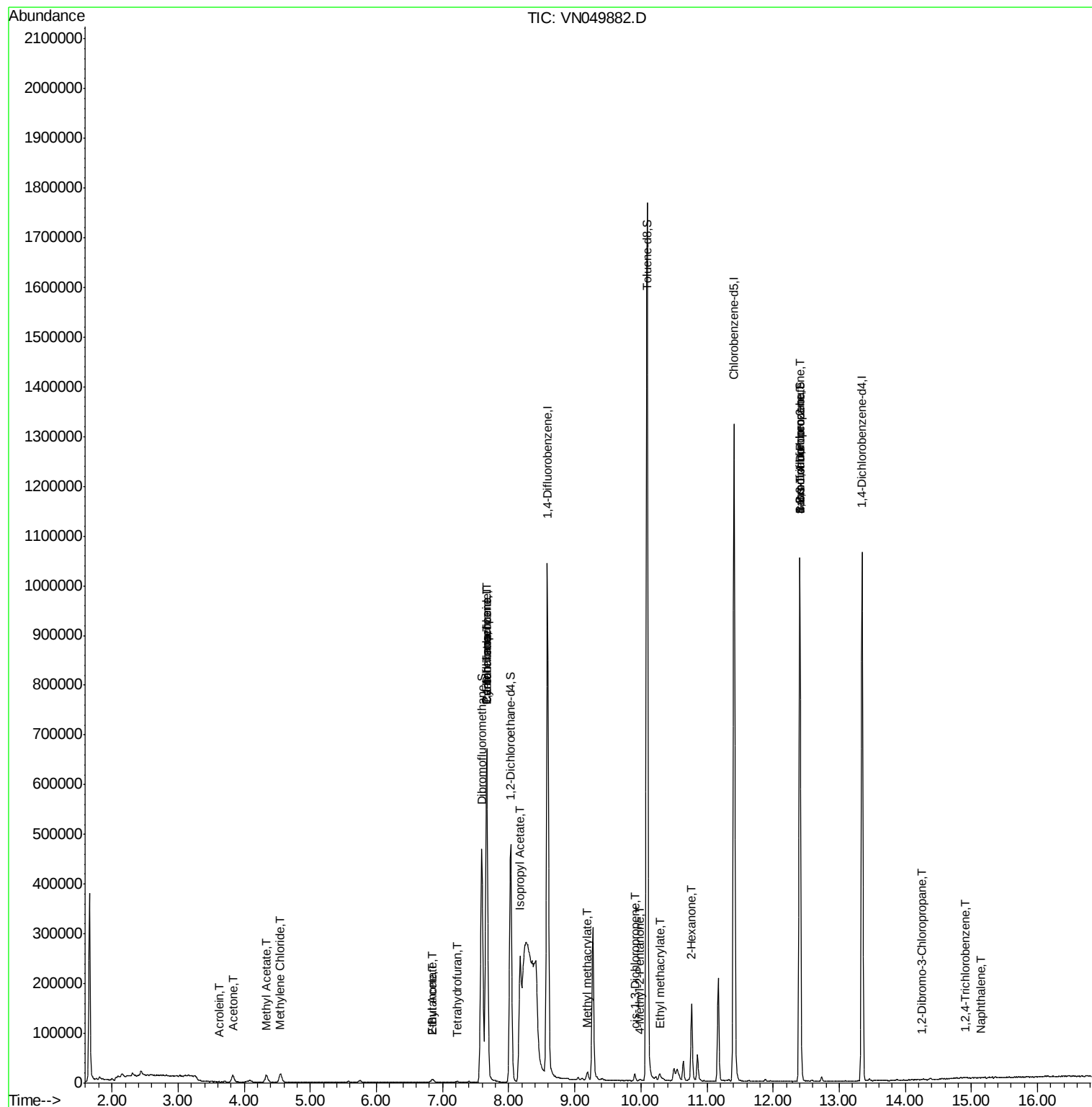
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	662	Below Cal		95
13) Acrolein	3.62	56	100	0.28	ug/l	97
16) Acetone	3.83	43	21975	10.96	ug/l	99
18) Methyl Acetate	4.33	43	26384	3.42	ug/l	98
20) Methylene Chloride	4.55	84	12154	1.59	ug/l	94
25) 2-Butanone	6.85	43	6012	2.10	ug/l #	81
29) Tetrahydrofuran	7.22	42	1221	0.68	ug/l #	76
31) Cyclohexane	7.66	56	10986	1.07	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	39828	3.75	ug/l #	49
37) Ethyl Acetate	6.85	43	6012	0.83	ug/l #	68
38) Carbon Tetrachloride	7.67	117	51485	4.53	ug/l #	16
43) Isopropyl Acetate	8.17	43	316158	24.84	ug/l	93
48) Methyl methacrylate	9.19	41	9613	1.51	ug/l #	22
51) 4-Methyl-2-Pentanone	9.99	43	3281	0.46	ug/l	93
54) cis-1,3-Dichloropropene	9.91	75	2585	0.21	ug/l #	70
56) Ethyl methacrylate	10.28	69	106	2.17	ug/l #	1
59) 2-Hexanone	10.77	43	21920	4.59	ug/l #	58
71) Bromoform	12.40	173	3203	0.58	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	171221	30.67	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	171221	95.91	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.24	75	279	0.27	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.91	180	105	3.49	ug/l #	38
95) Naphthalene	15.13	128	681	4.54	ug/l #	69

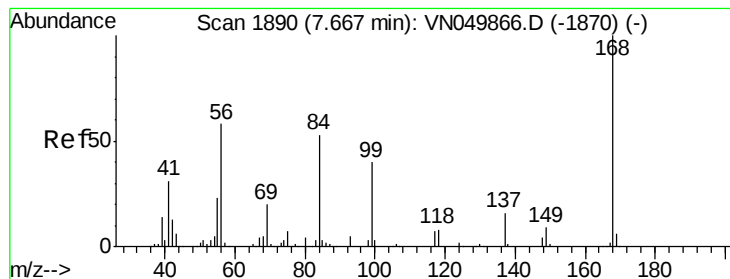
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071818\
Data File : VN049882.D
Acq On : 18 Jul 2018 19:21
Operator : MD\SY
Sample : PB111206ZHE#14
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Jul 19 01:22:04 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071818W.M
Quant Title : SW846 8260
QLast Update : Wed Jul 18 13:09:48 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.00 min

Lab File: VN049882.D

Acq: 18 Jul 2018 19:21

Instrument :

MSVOA_N

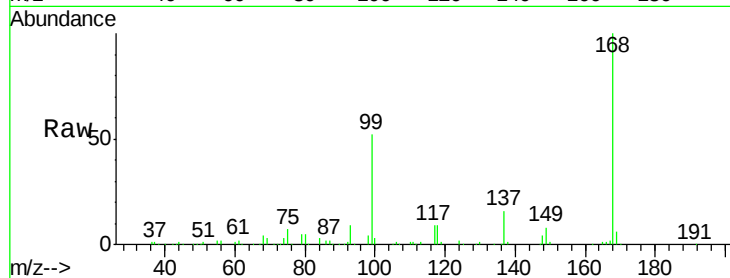
ClientSampled :

Tot Ion:168 Resp: 563432

Ion Ratio Lower Upper

168 100

99 52.3 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): VN049866.D (-1870) (-)

Ion 98.90 (98.60 to 99.60): VN049866.D (-1870) (-)

7.67

250000

200000

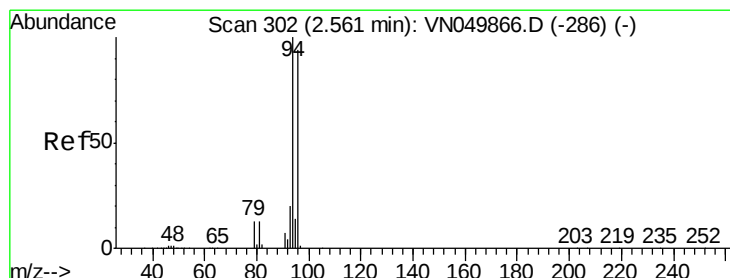
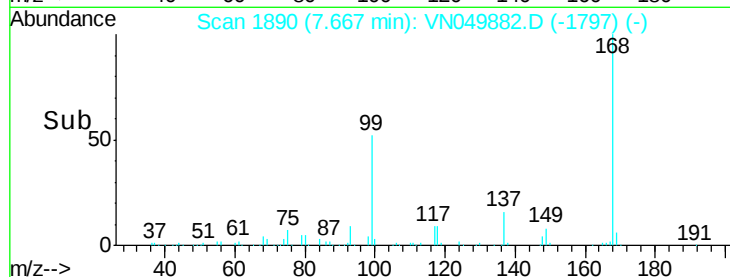
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN049882.D

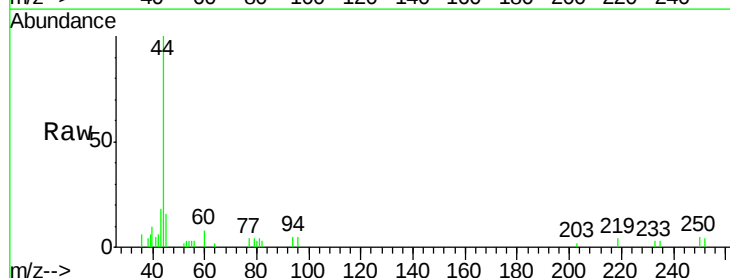
Acq: 18 Jul 2018 19:21

Tgt Ion: 94 Resp: 662

Ion Ratio Lower Upper

94 100

96 89.6 75.7 113.5



Abundance Ion 93.90 (93.60 to 94.60): VN049866.D (-286) (-)

Ion 95.90 (95.60 to 96.60): VN049866.D (-286) (-)

2.57

400

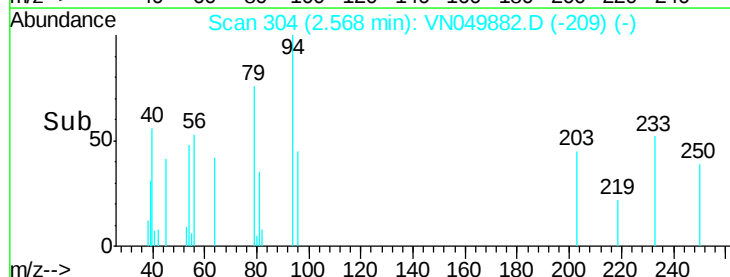
300

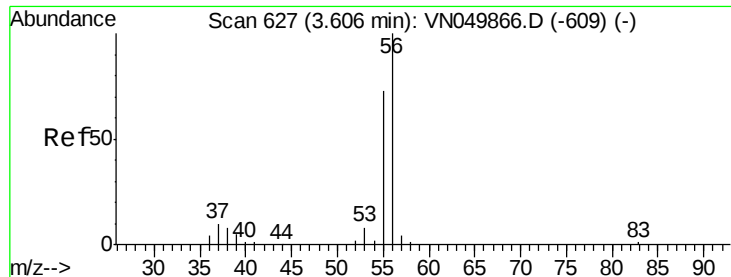
200

100

0

Time-->





#13

Acrolein

Concen: 0.28 ug/l

RT: 3.62 min Scan# 630

Delta R.T. 0.01 min

Lab File: VN049882.D

Acq: 18 Jul 2018 19:21

Instrument :

MSVOA_N

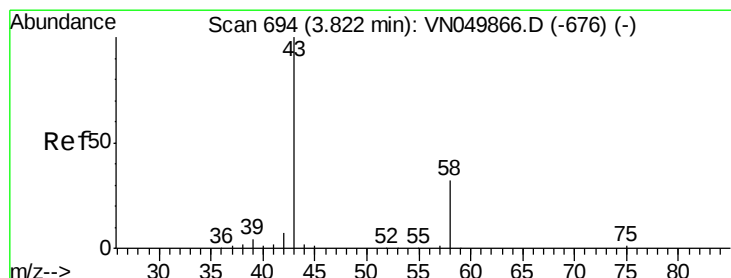
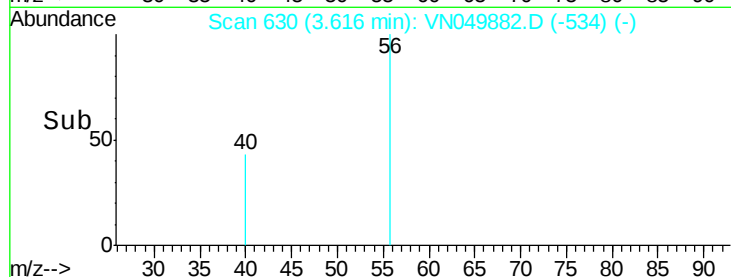
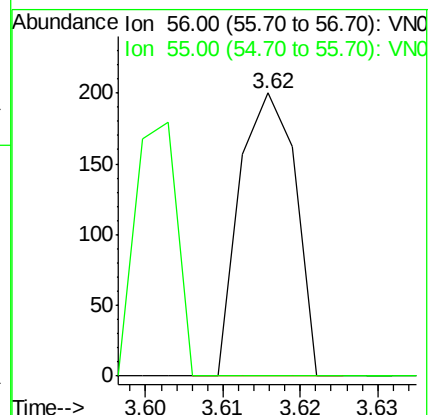
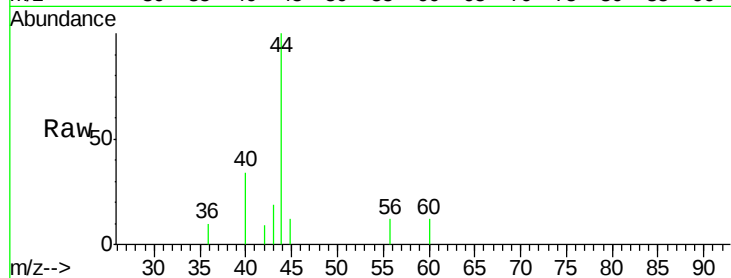
ClientSampled :

Tot Ion: 56 Resp: 100

Ion Ratio Lower Upper

56 100

55 67.0 55.8 83.8



#16

Acetone

Concen: 10.96 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN049882.D

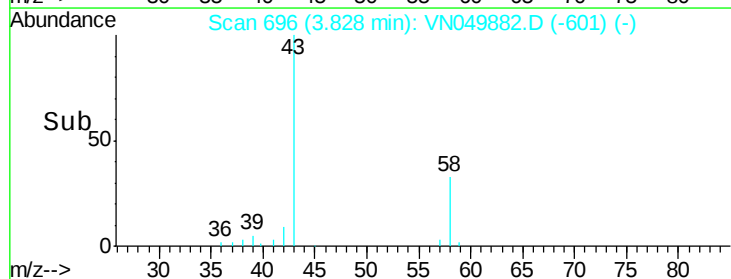
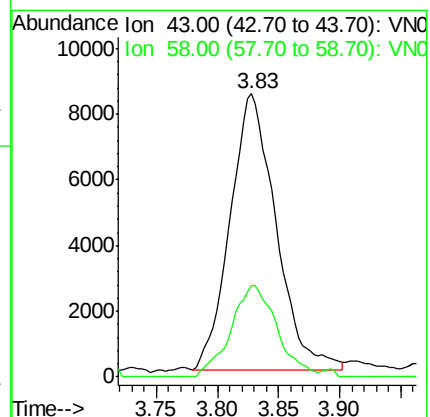
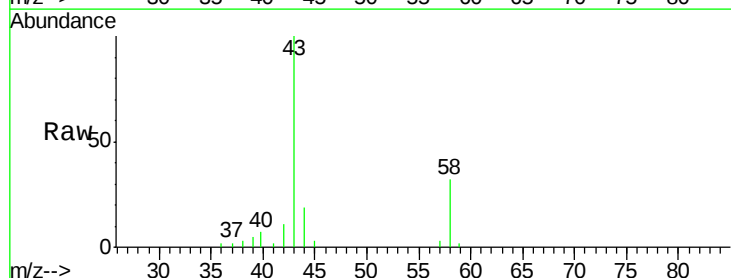
Acq: 18 Jul 2018 19:21

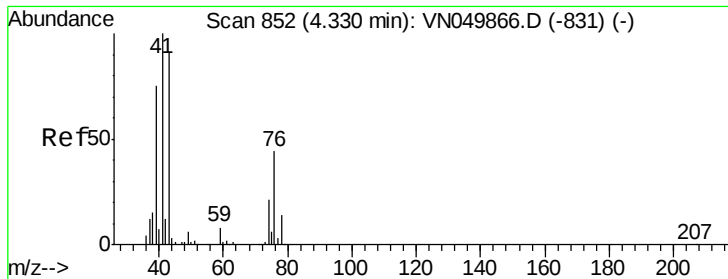
Tgt Ion: 43 Resp: 21975

Ion Ratio Lower Upper

43 100

58 33.1 25.9 38.9





#18

Methvl Acetate

Concen: 3.42 ug/l

RT: 4.33 min Scan# 853

Delta R.T. 0.00 min

Lab File: VN049882.D

Acq: 18 Jul 2018 19:21

Instrument :

MSVOA_N

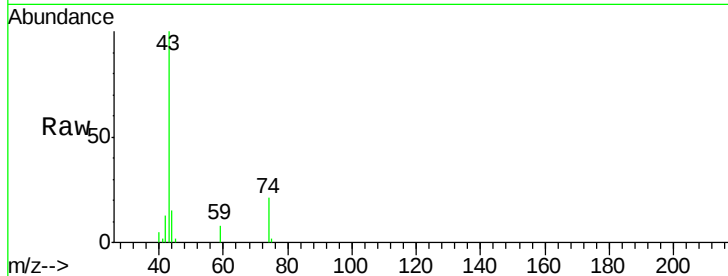
ClientSampled :

Tot Ion: 43 Resp: 26384

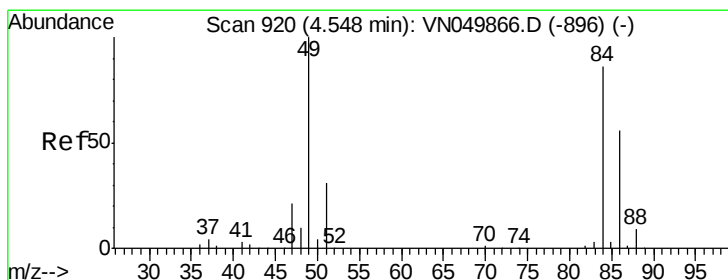
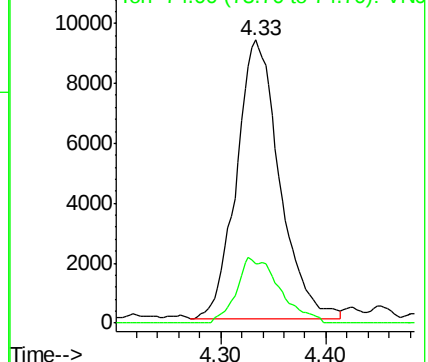
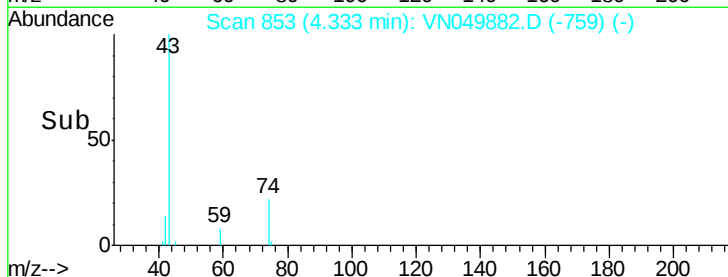
Ion Ratio Lower Upper

43 100

74 23.6 19.8 29.8



Abundance Ion 43.00 (42.70 to 43.70): VN049882.D (-759) (-)



#20

Methylene Chloride

Concen: 1.59 ug/l

RT: 4.55 min Scan# 921

Delta R.T. 0.00 min

Lab File: VN049882.D

Acq: 18 Jul 2018 19:21

Tgt Ion: 84 Resp: 12154

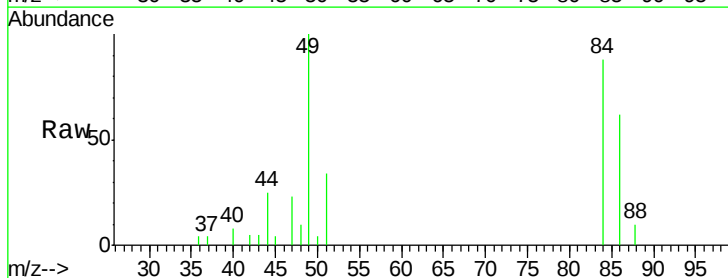
Ion Ratio Lower Upper

84 100

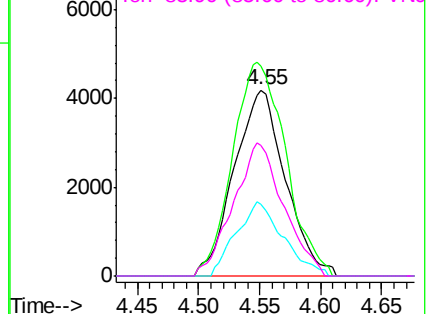
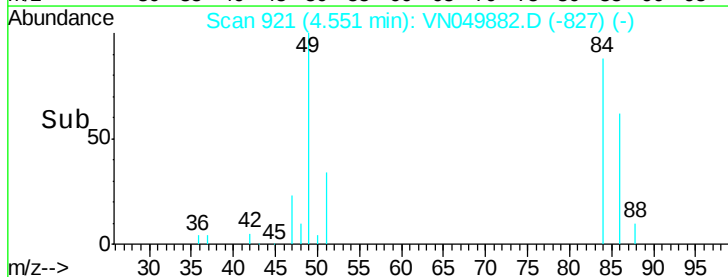
49 113.2 95.4 143.2

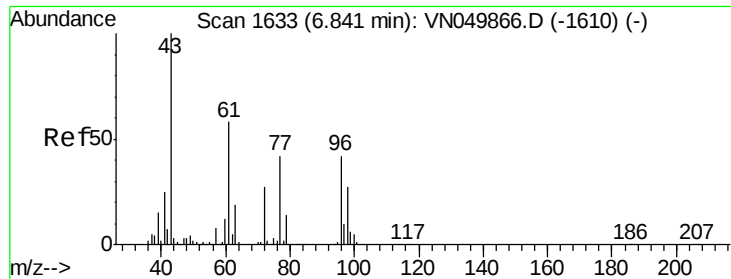
51 38.9 28.4 42.6

86 70.4 52.6 79.0



Abundance Ion 83.90 (83.60 to 84.60): VN049882.D (-827) (-)





#25

2-Butanone

Concen: 2.10 ug/l

RT: 6.85 min Scan# 1636

Delta R.T. 0.01 min

Lab File: VN049882.D

Acq: 18 Jul 2018 19:21

Instrument :

MSVOA_N

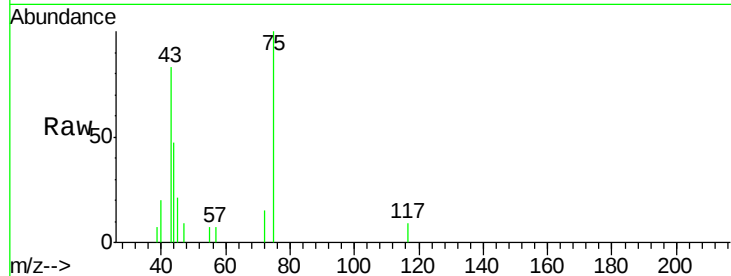
ClientSampleId :

Tot Ion: 43 Resp: 6012

Ion Ratio Lower Upper

43 100

72 17.7 22.1 33.1#

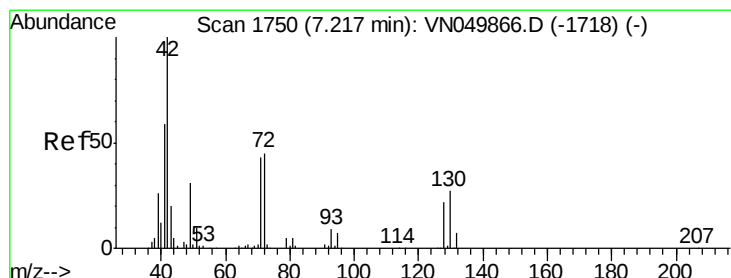
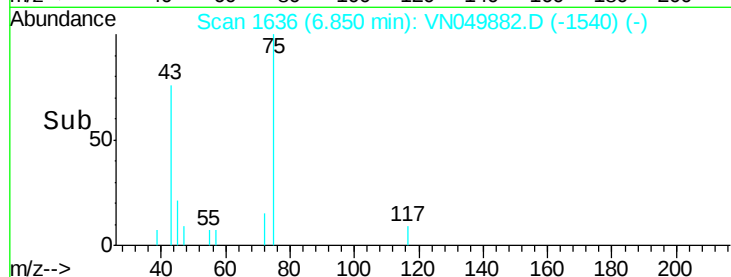


Abundance Ion 43.00 (42.70 to 43.70): VN049866.D (-1610) (-)

Ion 72.00 (71.70 to 72.70): VN049866.D (-1610) (-)

Time-->

6.75 6.80 6.85 6.90 6.95



#29

Tetrahydrofuran

Concen: 0.68 ug/l

RT: 7.22 min Scan# 1751

Delta R.T. 0.00 min

Lab File: VN049882.D

Acq: 18 Jul 2018 19:21

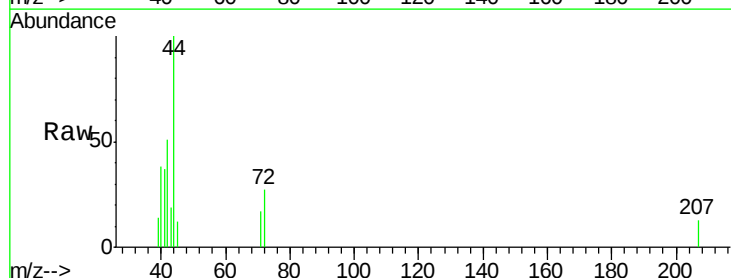
Tgt Ion: 42 Resp: 1221

Ion Ratio Lower Upper

42 100

72 32.6 35.6 53.4#

71 23.3 34.0 51.0#



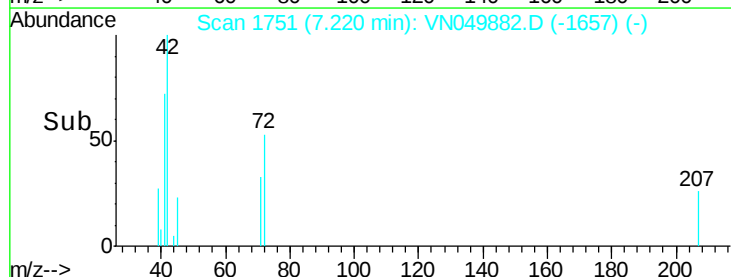
Abundance Ion 42.00 (41.70 to 42.70): VN049866.D (-1718) (-)

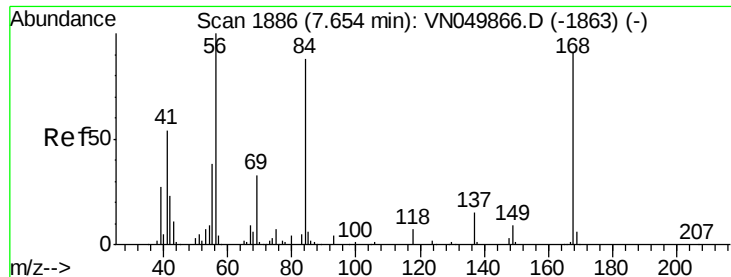
Ion 72.00 (71.70 to 72.70): VN049866.D (-1718) (-)

Ion 71.00 (70.70 to 71.70): VN049866.D (-1718) (-)

Time-->

7.18 7.20 7.22 7.24 7.26

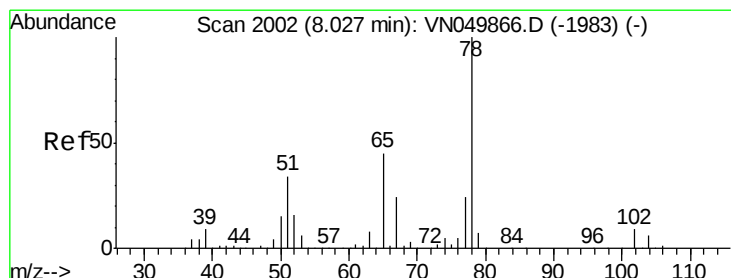
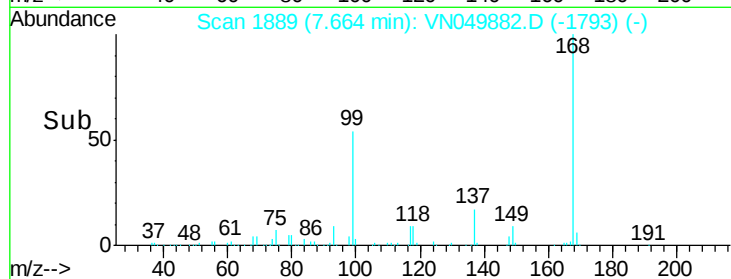
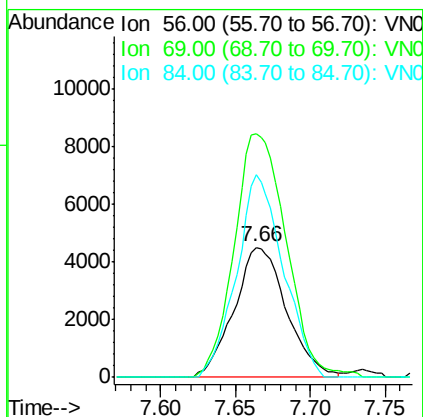
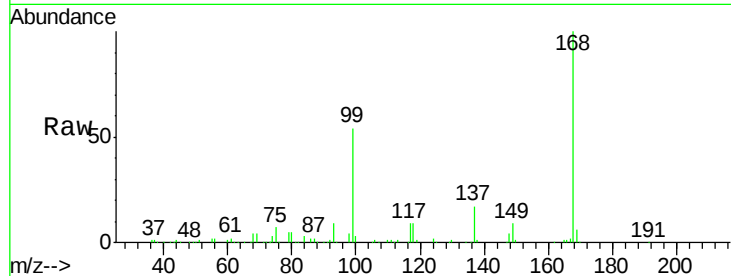




#31
Cyclohexane
Concen: 1.07 ug/l
RT: 7.66 min Scan# 1889
Delta R.T. 0.01 min
Lab File: VN049882.D
Acq: 18 Jul 2018 19:21

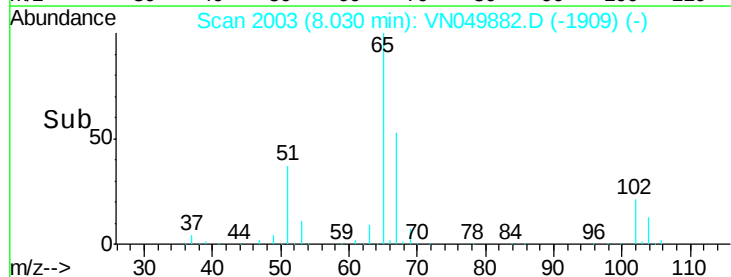
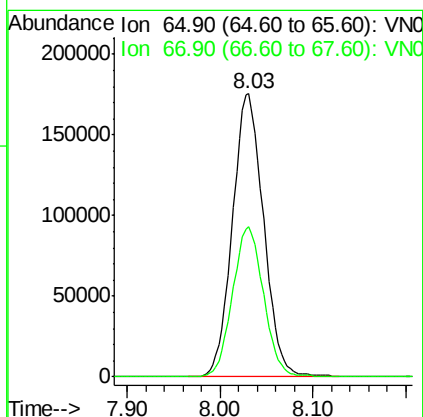
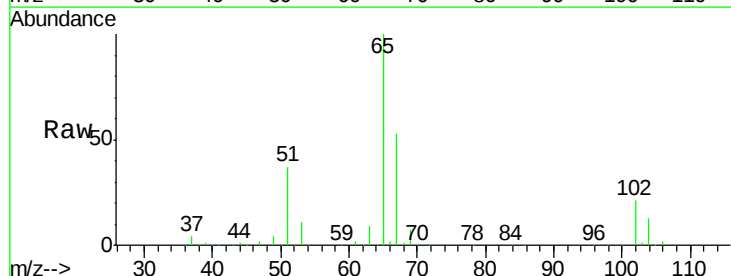
Instrument :
MSVOA_N
ClientSampled :

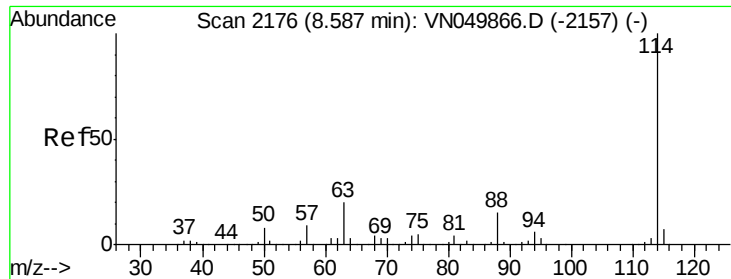
Tot Ion: 56 Resp: 10986
Ion Ratio Lower Upper
56 100
69 187.0 26.6 40.0#
84 155.2 69.0 103.6#



#33
1,2-Dichloroethane-d4
Concen: 52.83 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN049882.D
Acq: 18 Jul 2018 19:21

Tgt Ion: 65 Resp: 409138
Ion Ratio Lower Upper
65 100
67 52.8 0.0 107.2

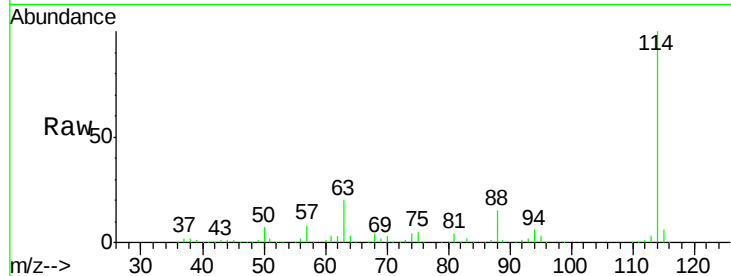




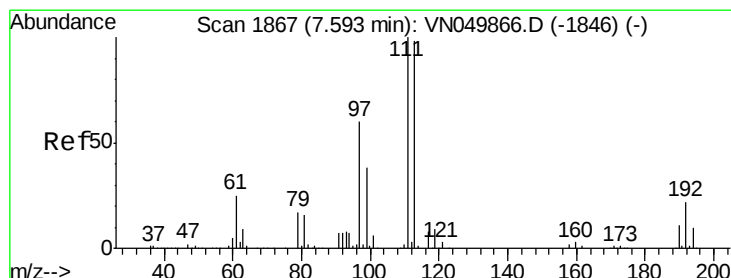
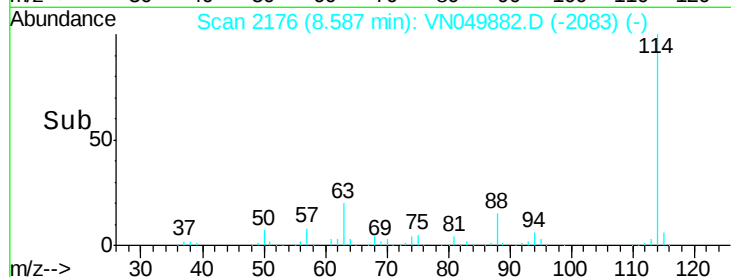
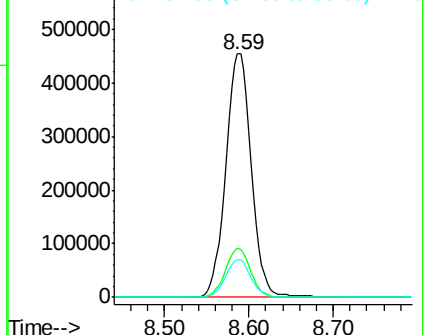
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN049882.D
 Acq: 18 Jul 2018 19:21

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	19.9	0.0	39.8
88	15.4	0.0	30.6

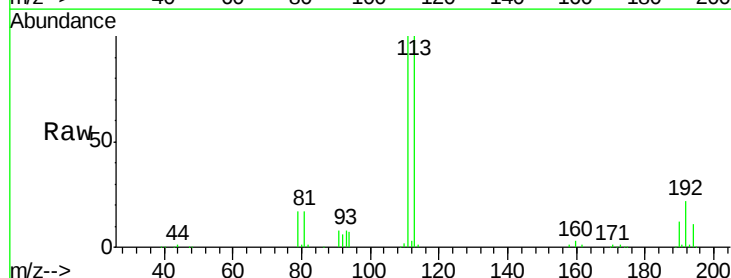


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

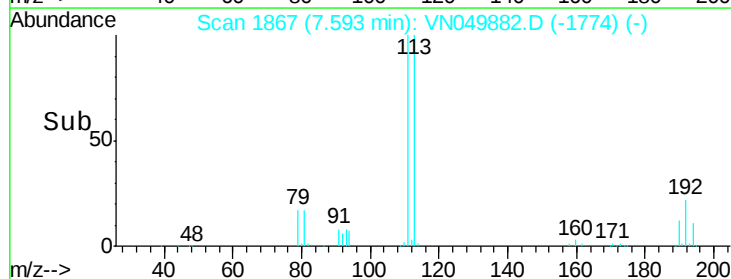
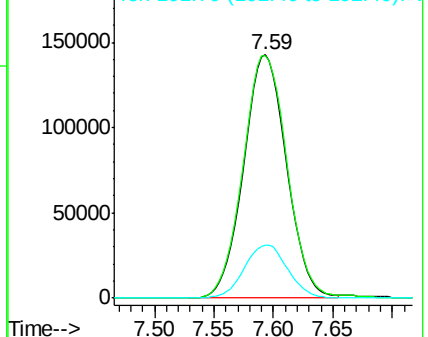


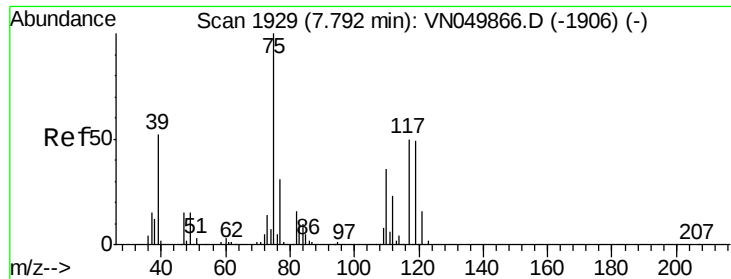
#35
 Dibromofluoromethane
 Concen: 44.56 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN049882.D
 Acq: 18 Jul 2018 19:21

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.8	81.8	122.8
192	22.0	17.8	26.6



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

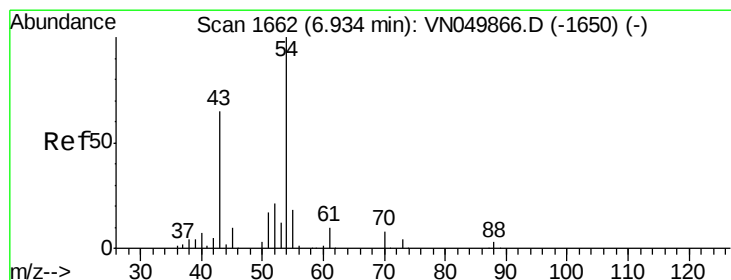
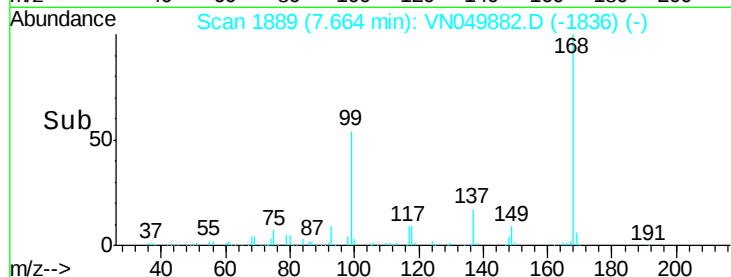
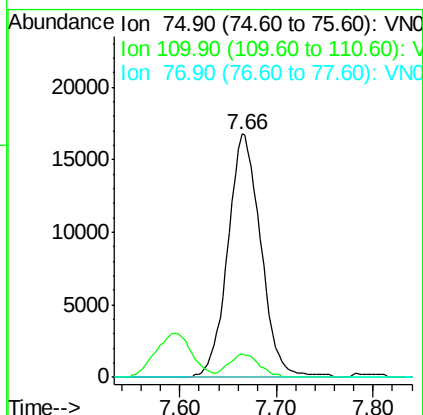
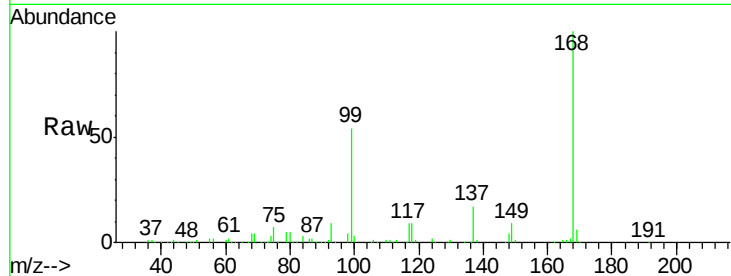




#36
 1,1-Dichloropropene
 Concen: 3.75 ug/l
 RT: 7.66 min Scan# 1889
 Delta R.T. -0.13 min
 Lab File: VN049882.D
 Acq: 18 Jul 2018 19:21

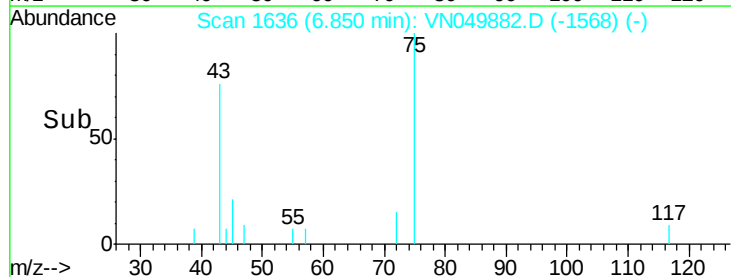
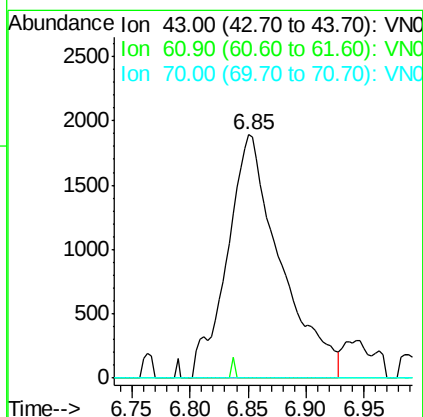
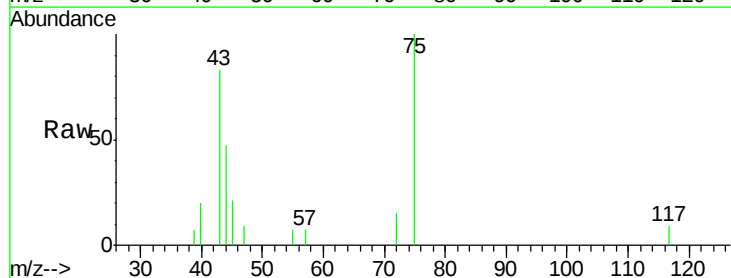
Instrument :
 MSVOA_N
 ClientSampleId :

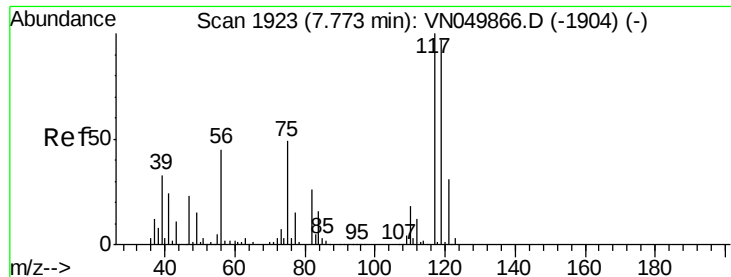
Tot Ion	75	Resp	39828
Ion Ratio	100	Lower	Upper
75	100		
110	9.0	18.1	54.4#
77	0.0	24.9	37.3#



#37
 Ethyl Acetate
 Concen: 0.83 ug/l
 RT: 6.85 min Scan# 1636
 Delta R.T. -0.08 min
 Lab File: VN049882.D
 Acq: 18 Jul 2018 19:21

Tgt Ion	43	Resp	6012
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
43	100		
61	0.5	11.7	17.5#
70	0.0	8.4	12.6#

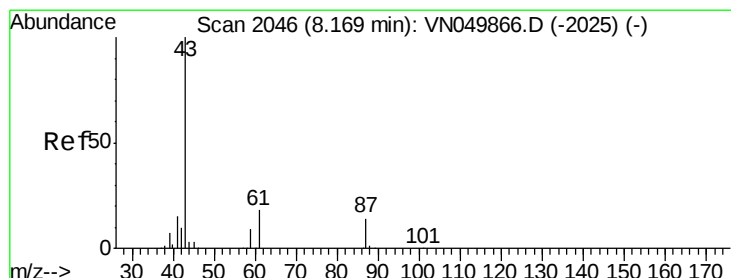
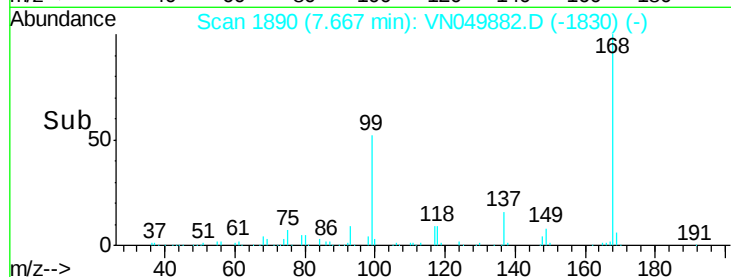
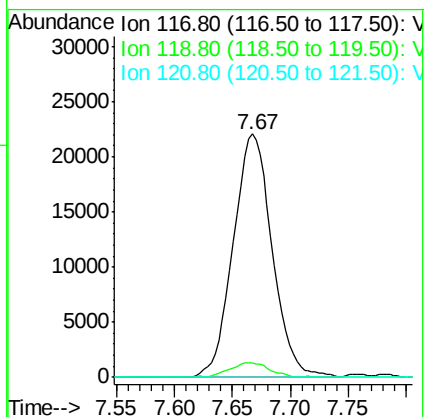
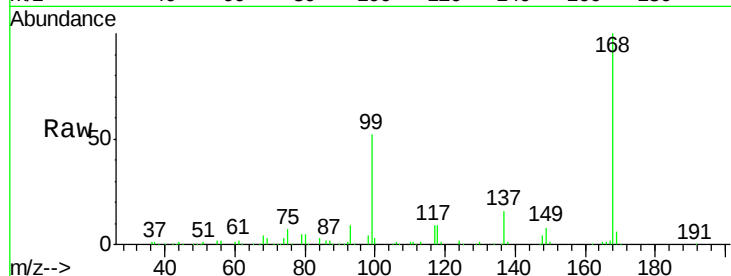




#38
Carbon Tetrachloride
Concen: 4.53 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. -0.11 min
Lab File: VN049882.D
Acq: 18 Jul 2018 19:21

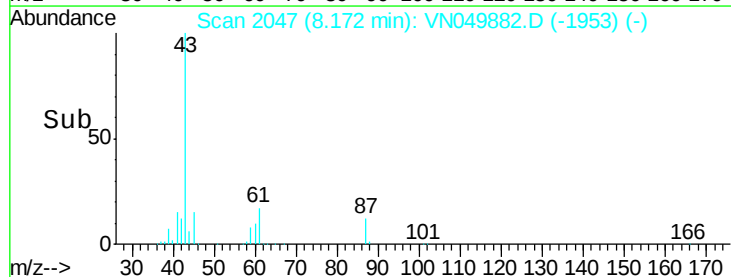
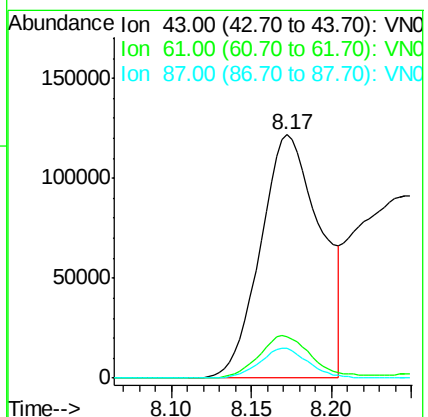
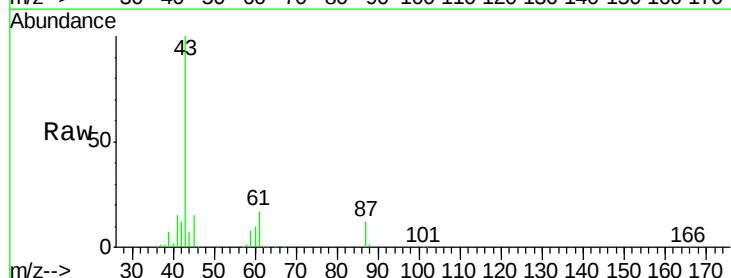
Instrument :
MSVOA_N
ClientSampleId :

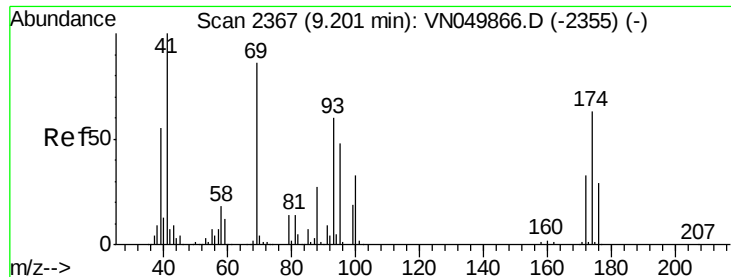
Tot Ion:117 Resp: 51485
Ion Ratio Lower Upper
117 100
119 5.7 77.2 115.8#
121 0.0 25.0 37.6#



#43
Isopropyl Acetate
Concen: 24.84 ug/l
RT: 8.17 min Scan# 2047
Delta R.T. 0.00 min
Lab File: VN049882.D
Acq: 18 Jul 2018 19:21

Tgt Ion: 43 Resp: 316158
Ion Ratio Lower Upper
43 100
61 15.3 14.9 22.3
87 10.1 10.0 15.0

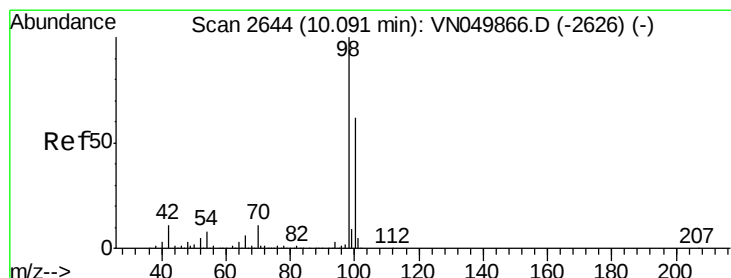
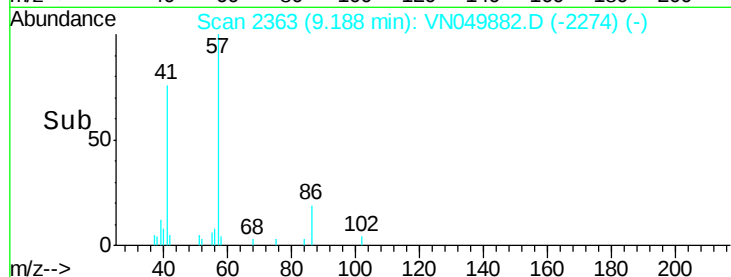
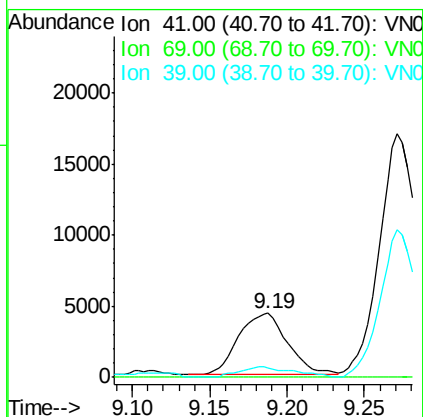
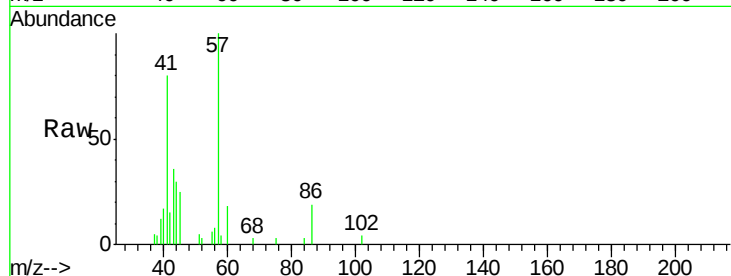




#48
Methvl methacrvlate
Concen: 1.51 ug/l
RT: 9.19 min Scan# 2363
Delta R.T. -0.01 min
Lab File: VN049882.D
Acq: 18 Jul 2018 19:21

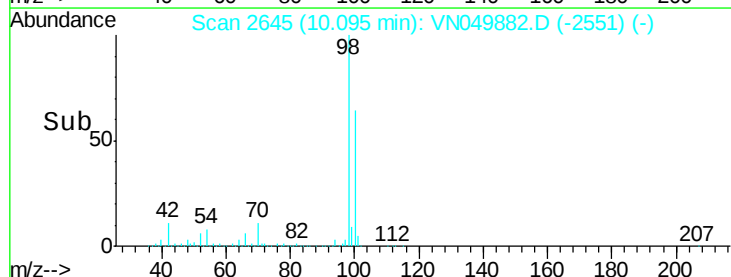
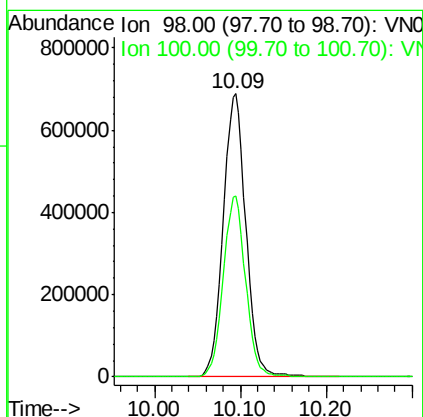
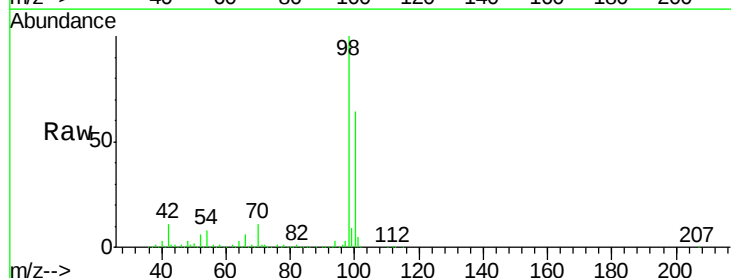
Instrument :
MSVOA_N
ClientSampleId :

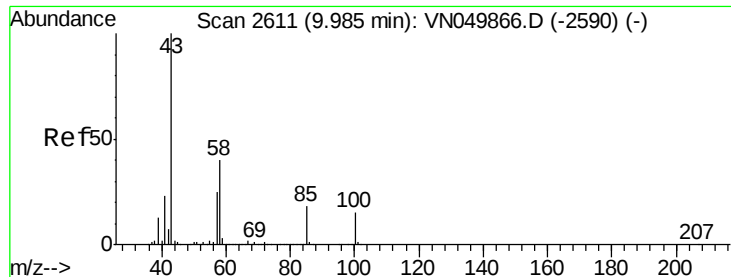
Tot Ion: 41 Resp: 9613
Ion Ratio Lower Upper
41 100
69 0.0 71.5 107.3#
39 19.0 44.7 67.1#



#50
Toluene-d8
Concen: 43.20 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN049882.D
Acq: 18 Jul 2018 19:21

Tgt Ion: 98 Resp: 1260930
Ion Ratio Lower Upper
98 100
100 63.4 51.7 77.5

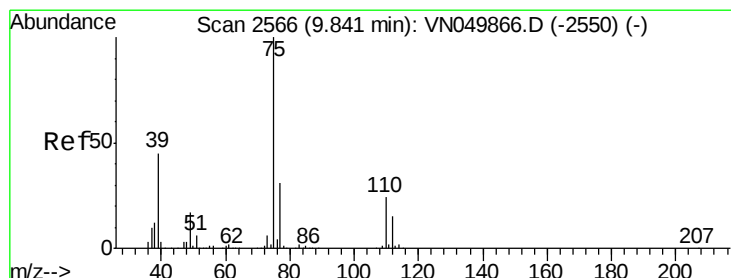
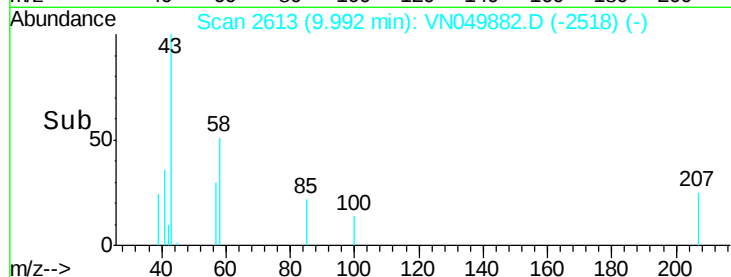
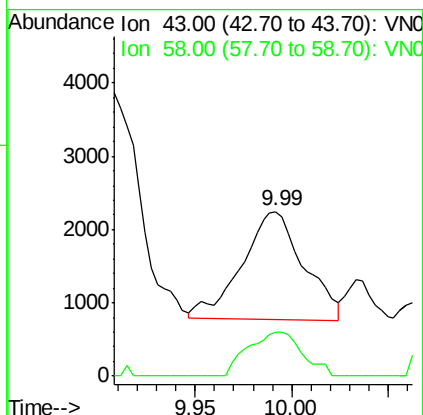
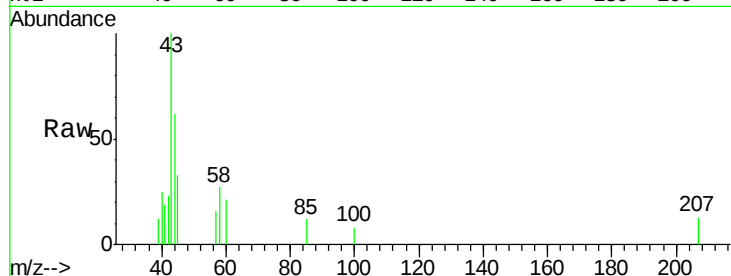




#51
4-Methyl-2-Pentanone
Concen: 0.46 ug/l
RT: 9.99 min Scan# 2613
Delta R.T. 0.01 min
Lab File: VN049882.D
Acq: 18 Jul 2018 19:21

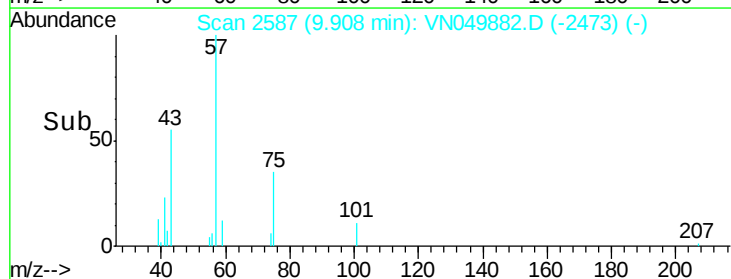
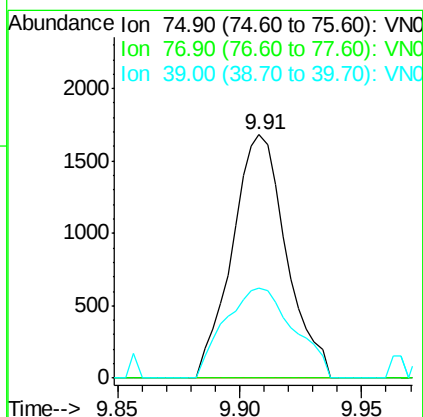
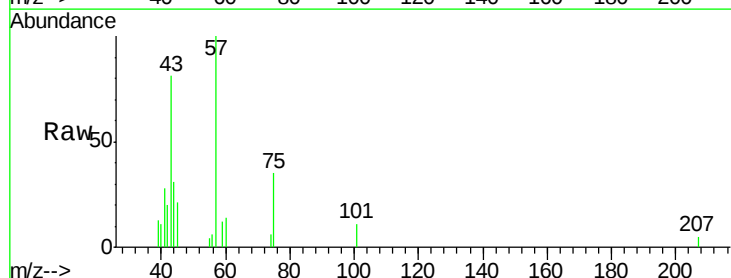
Instrument :
MSVOA_N
ClientSampled :

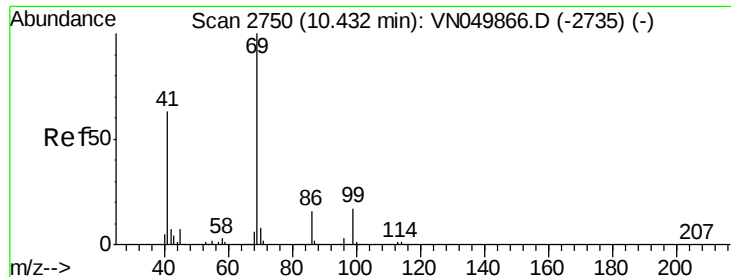
Tot Ion: 43 Resp: 3281
Ion Ratio Lower Upper
43 100
58 35.6 31.8 47.8



#54
cis-1,3-Dichloropropene
Concen: 0.21 ug/l
RT: 9.91 min Scan# 2587
Delta R.T. 0.07 min
Lab File: VN049882.D
Acq: 18 Jul 2018 19:21

Tgt Ion: 75 Resp: 2585
Ion Ratio Lower Upper
75 100
77 0.0 25.3 37.9#
39 37.2 35.5 53.3





#56

Ethyl methacrylate

Concen: 2.17 ug/l

RT: 10.28 min Scan# 2703

Delta R.T. -0.15 min

Lab File: VN049882.D

Acq: 18 Jul 2018 19:21

Instrument :

MSVOA_N

ClientSampled :

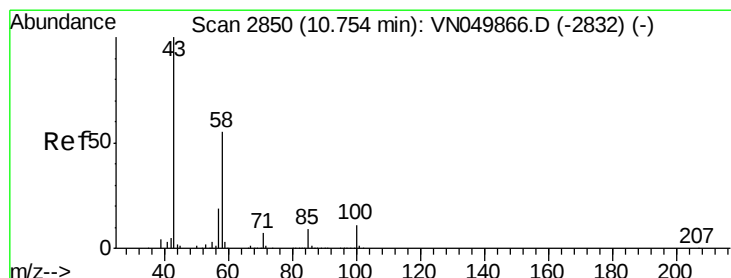
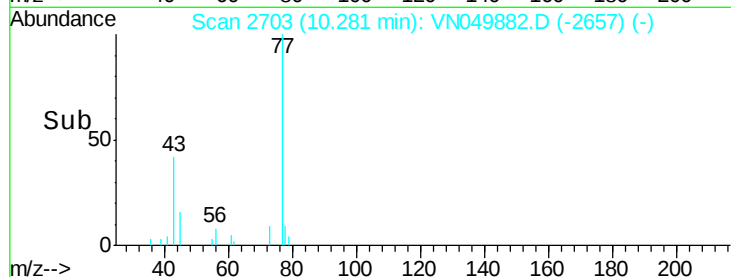
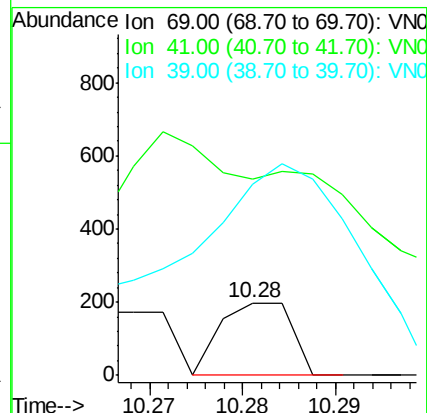
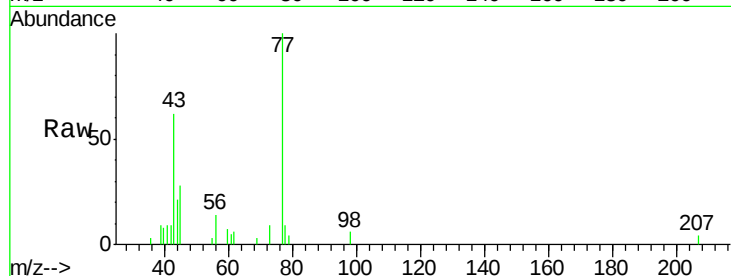
Tot Ion: 69 Resp: 106

Ion Ratio Lower Upper

69 100

41 760.4 51.6 77.4#

39 650.9 25.8 38.8#



#59

2-Hexanone

Concen: 4.59 ug/l

RT: 10.77 min Scan# 2855

Delta R.T. 0.02 min

Lab File: VN049882.D

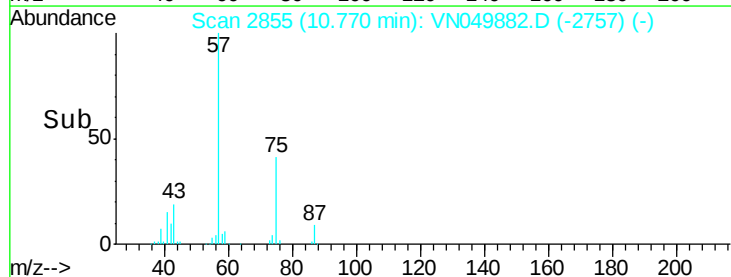
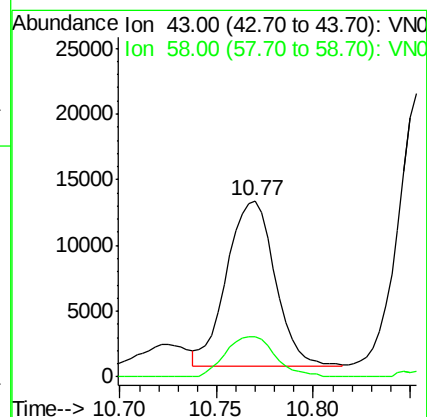
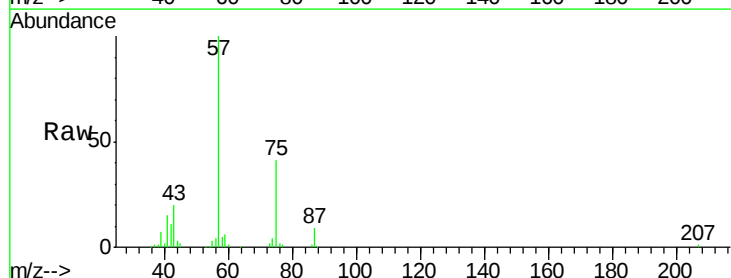
Acq: 18 Jul 2018 19:21

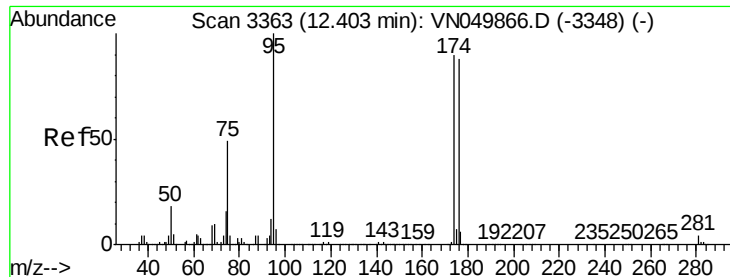
Tgt Ion: 43 Resp: 21920

Ion Ratio Lower Upper

43 100

58 25.0 27.8 83.4#





#62

4-Bromofluorobenzene

Concen: 34.72 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.00 min

Lab File: VN049882.D

Acq: 18 Jul 2018 19:21

Instrument :

MSVOA_N

ClientSampled :

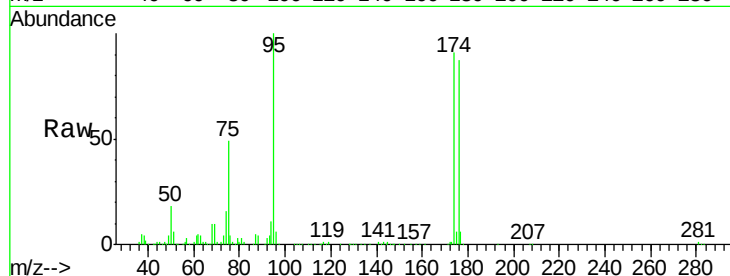
Tot Ion: 95 Resp: 348933

Ion Ratio Lower Upper

95 100

174 92.4 0.0 179.6

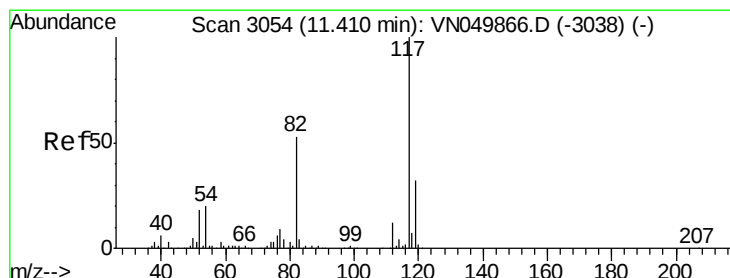
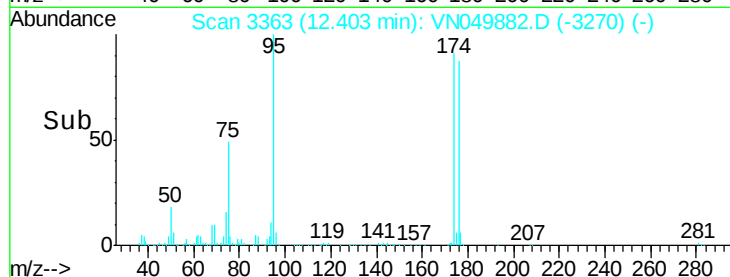
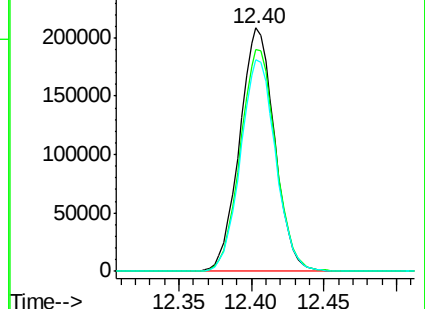
176 87.4 0.0 174.0



Abundance Ion 94.90 (94.60 to 95.60): VN049866.D (-3348) (-)

Ion 173.80 (173.50 to 174.50): VN049866.D (-3348) (-)

Ion 175.80 (175.50 to 176.50): VN049866.D (-3348) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN049882.D

Acq: 18 Jul 2018 19:21

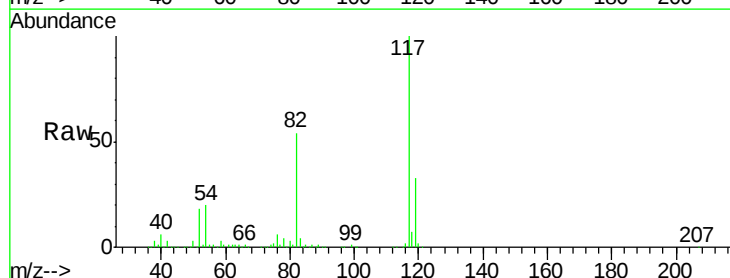
Tgt Ion: 117 Resp: 794500

Ion Ratio Lower Upper

117 100

82 53.9 41.9 62.9

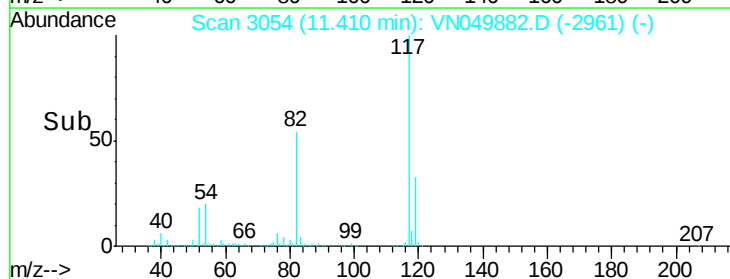
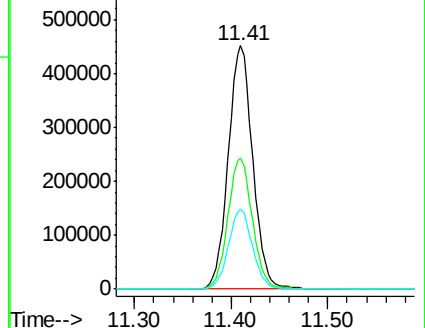
119 32.7 25.4 38.2

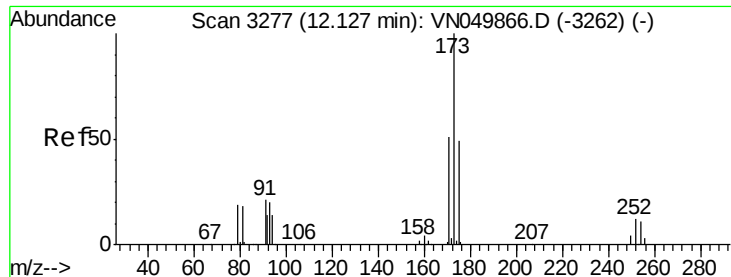


Abundance Ion 116.90 (116.60 to 117.60): VN049866.D (-3038) (-)

Ion 82.00 (81.70 to 82.70): VN049866.D (-3038) (-)

Ion 118.90 (118.60 to 119.60): VN049866.D (-3038) (-)

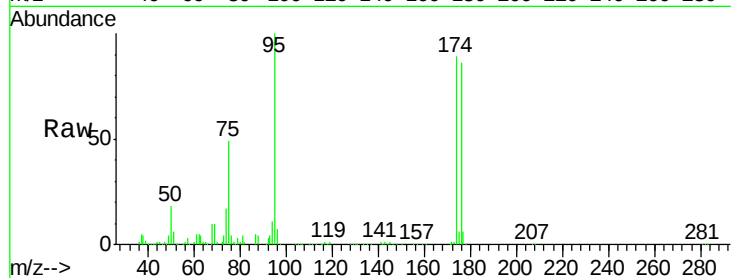




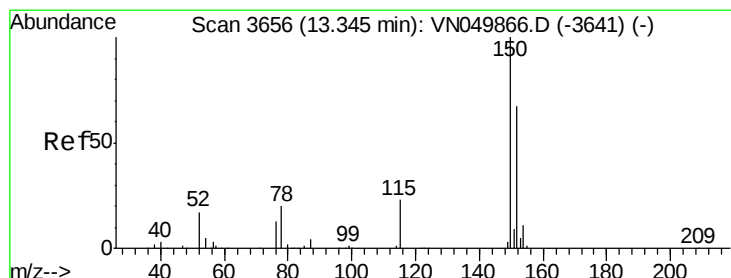
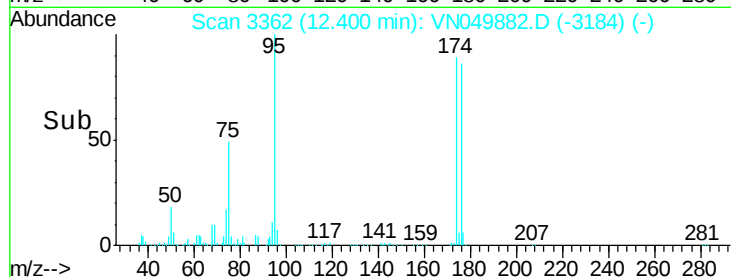
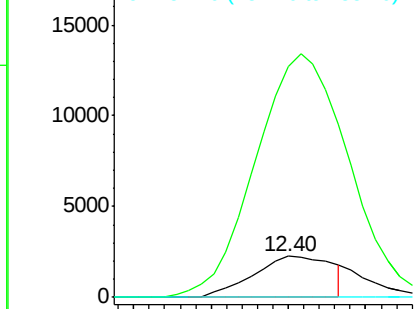
#71
Bromoform
Concen: 0.58 ug/l
RT: 12.40 min Scan# 3362
Delta R.T. 0.27 min
Lab File: VN049882.D
Acq: 18 Jul 2018 19:21

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:173 Resp: 3203
Ion Ratio Lower Upper
173 100
175 580.6 24.6 73.8#
254 0.0 0.2 0.2#

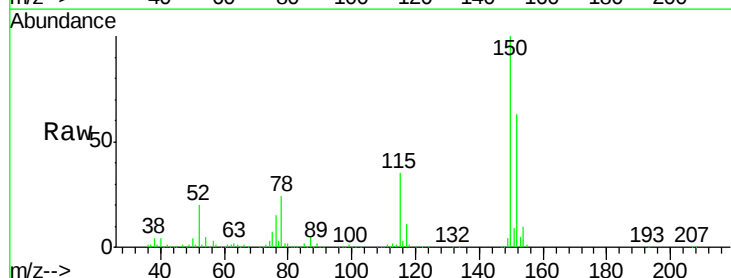


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

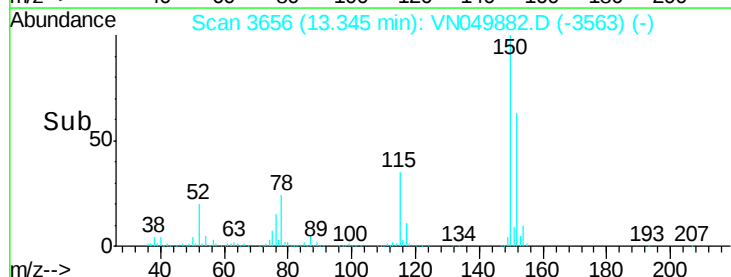
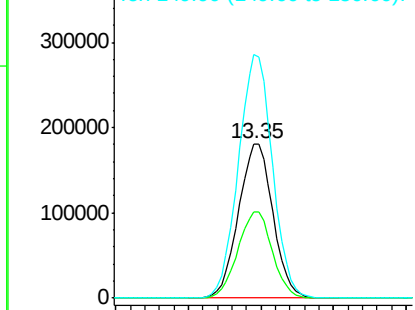


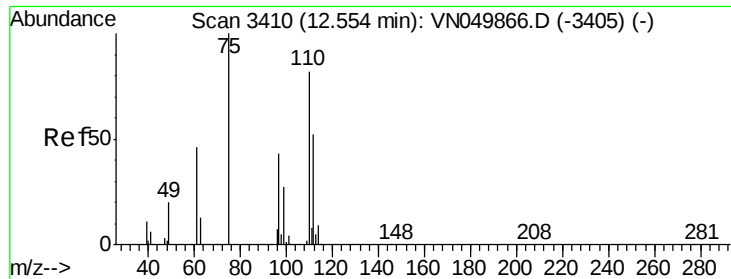
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3656
Delta R.T. -0.00 min
Lab File: VN049882.D
Acq: 18 Jul 2018 19:21

Tgt Ion:152 Resp: 297574
Ion Ratio Lower Upper
152 100
115 56.0 28.1 84.2
150 156.5 0.0 347.6



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





#76

1,2,3-Trichloropropane

Concen: 30.67 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049882.D

Acq: 18 Jul 2018 19:21

Instrument :

MSVOA_N

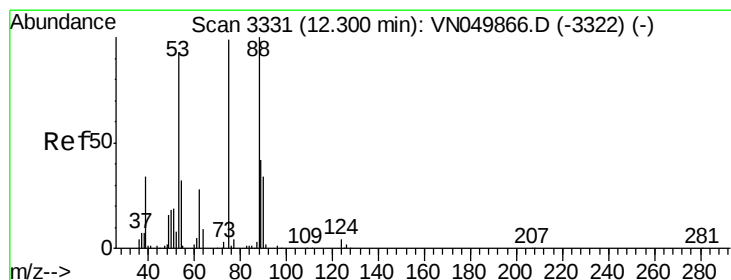
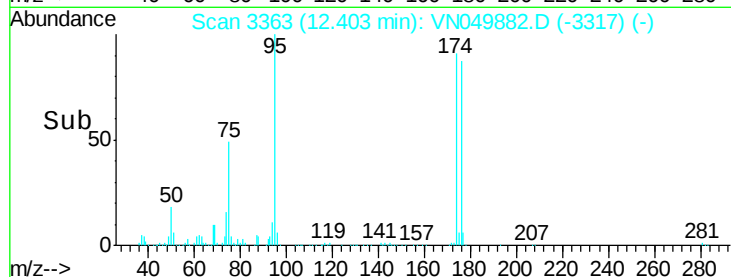
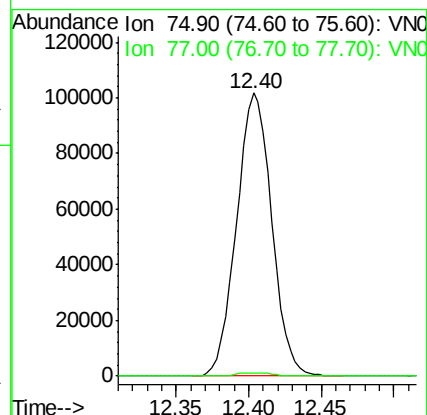
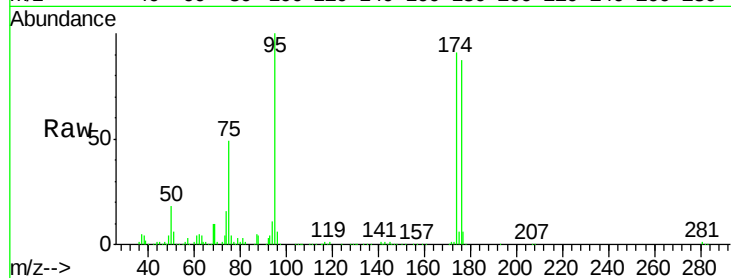
ClientSampleId :

Tot Ion: 75 Resp: 171221

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 95.91 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049882.D

Acq: 18 Jul 2018 19:21

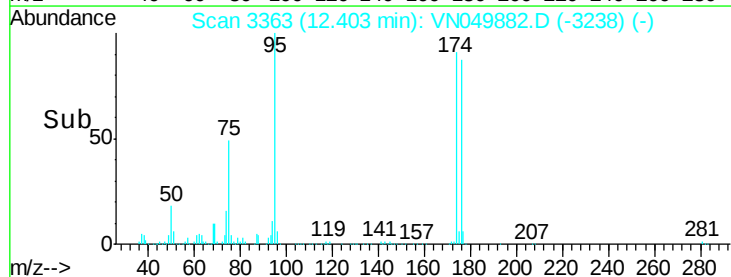
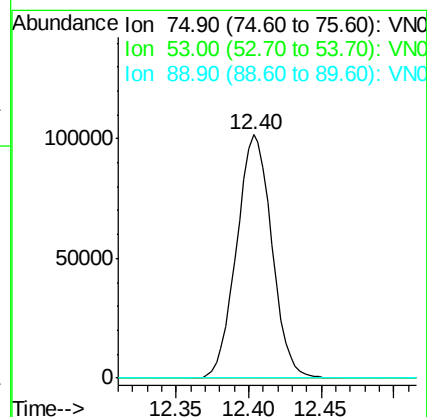
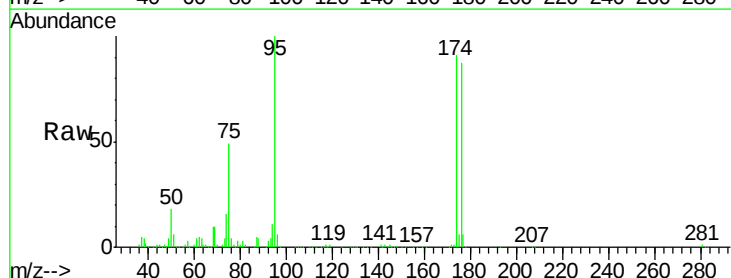
Tgt Ion: 75 Resp: 171221

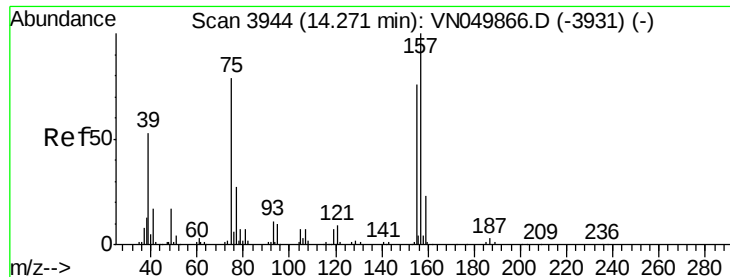
Ion Ratio Lower Upper

75 100

53 0.3 73.9 110.9#

89 0.0 35.9 53.9#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.27 ug/l

RT: 14.24 min Scan# 3935

Delta R.T. -0.03 min

Lab File: VN049882.D

Acq: 18 Jul 2018 19:21

Instrument :

MSVOA_N

ClientSampled :

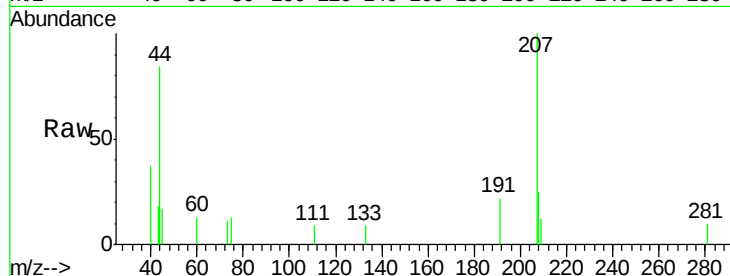
Tot Ion: 75 Resp: 279

Ion Ratio Lower Upper

75 100

155 0.0 45.7 137.1#

157 0.0 56.9 170.7#

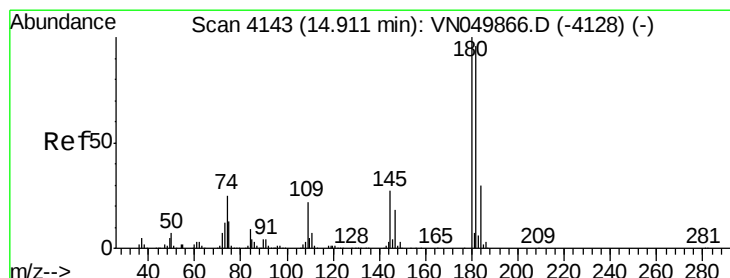
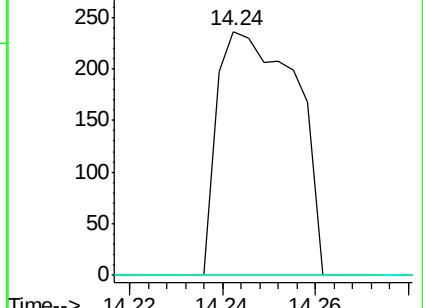
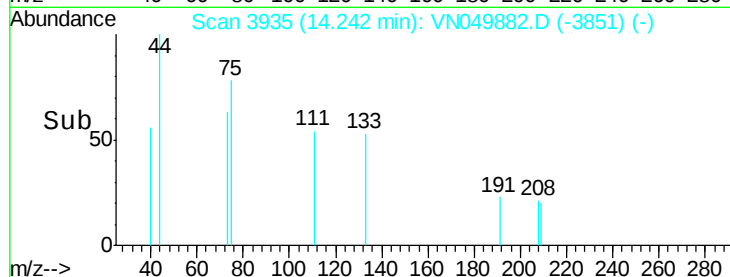


Abundance Ion 74.90 (74.60 to 75.60): VN049882.D (-3851) (-)

Ion 154.80 (154.50 to 155.50): VN049882.D (-3851) (-)

Ion 156.80 (156.50 to 157.50): VN049882.D (-3851) (-)

Time-->



#93

1,2,4-Trichlorobenzene

Concen: 3.49 ug/l

RT: 14.91 min Scan# 4143

Delta R.T. 0.00 min

Lab File: VN049882.D

Acq: 18 Jul 2018 19:21

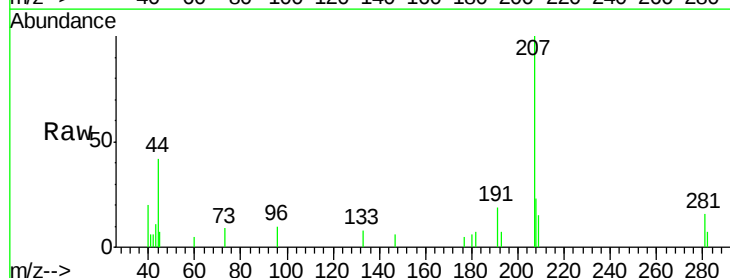
Tgt Ion: 180 Resp: 105

Ion Ratio Lower Upper

180 100

182 157.1 47.3 141.9#

145 0.0 14.4 43.0#

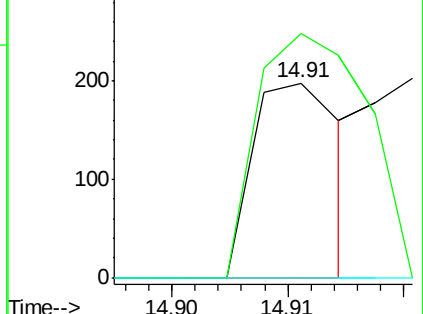
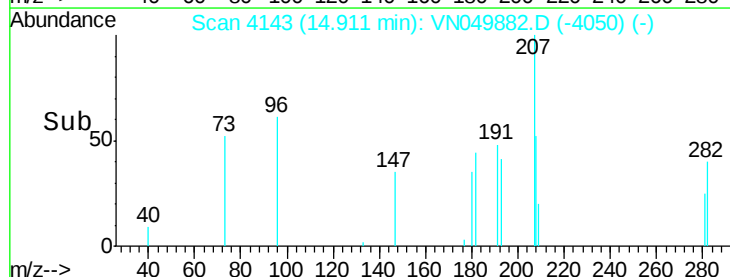


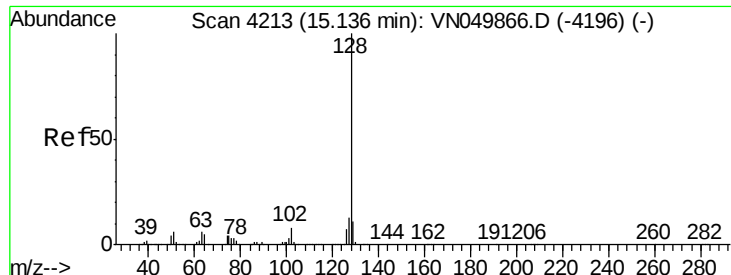
Abundance Ion 179.80 (179.50 to 180.50): VN049882.D (-4050) (-)

Ion 181.80 (181.50 to 182.50): VN049882.D (-4050) (-)

Ion 144.80 (144.50 to 145.50): VN049882.D (-4050) (-)

Time-->

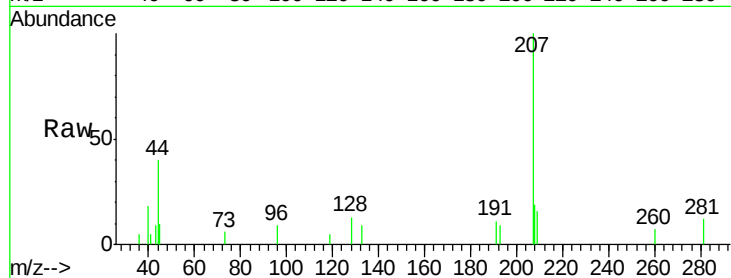




#95
 Naphthalene
 Concen: 4.54 ug/l
 RT: 15.13 min Scan# 4212
 Delta R.T. -0.00 min
 Lab File: VN049882.D
 Acq: 18 Jul 2018 19:21

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.4	15.6#
129	0.0	8.6	13.0#



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

