

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062218\
 Data File : VN049500.D
 Acq On : 22 Jun 2018 18:58
 Operator : MD\SY
 Sample : PB116445ZHE#13
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 22 22:16:49 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061618W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 01:02:01 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1128362	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1794880	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1484668	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	375416	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	778287	52.00	ug/l	0.00
Spiked Amount			Recovery	=	104.00%	
35) Dibromofluoromethane	7.59	113	684511	47.14	ug/l	0.00
Spiked Amount			Recovery	=	94.28%	
50) Toluene-d8	10.09	98	2459847	44.49	ug/l	0.00
Spiked Amount			Recovery	=	88.98%	
62) 4-Bromofluorobenzene	12.41	95	576640	31.54	ug/l	0.00
Spiked Amount			Recovery	=	63.08%	

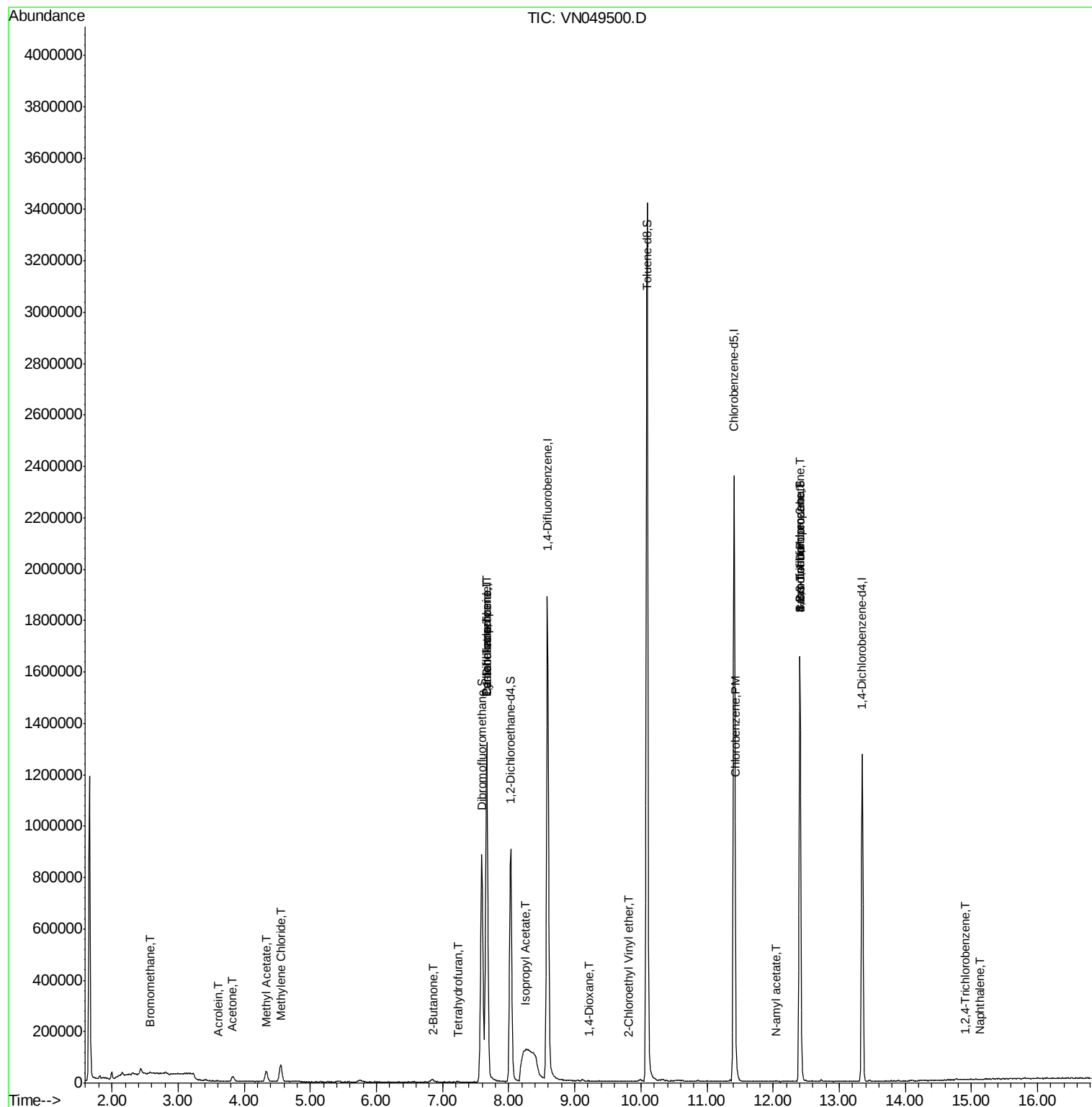
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	2803	0.30	ug/l	91
13) Acrolein	3.62	56	224	0.24	ug/l #	1
16) Acetone	3.83	43	34843	9.59	ug/l	96
18) Methyl Acetate	4.33	43	79756	7.20	ug/l	95
20) Methylene Chloride	4.55	84	48248	3.18	ug/l	87
25) 2-Butanone	6.86	43	5811	1.19	ug/l	97
29) Tetrahydrofuran	7.24	42	1442	0.46	ug/l #	74
31) Cyclohexane	7.66	56	21554	0.80	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	78787	3.83	ug/l #	50
38) Carbon Tetrachloride	7.67	117	104295	4.90	ug/l #	17
43) Isopropyl Acetate	8.24	43	132985	6.22	ug/l #	64
49) 1,4-Dioxane	9.22	88	303	2.18	ug/l #	29
58) 2-Chloroethyl Vinyl ether	9.82	63	33	14.33	ug/l #	51
65) Chlorobenzene	11.44	112	14727	0.39	ug/l	94
71) Bromoform	12.40	173	4937	0.53	ug/l #	1
74) N-amyl acetate	12.04	43	2317	0.29	ug/l #	52
75) 1,1,2,2-Tetrachloroethane	12.53	83	126	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.41	75	281589	43.96	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	281589	138.94	ug/l #	9
90) Hexachloroethane	13.65	117	35	Below Cal	#	9
93) 1,2,4-Trichlorobenzene	14.90	180	67	4.75	ug/l #	13
95) Naphthalene	15.14	128	368	2.11	ug/l #	69

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

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Quant Title : SW846 8260
QLast Update : Sat Jun 16 01:02:01 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: VN049500.D

Acq: 22 Jun 2018 18:58

Instrument :

MSVOA_N

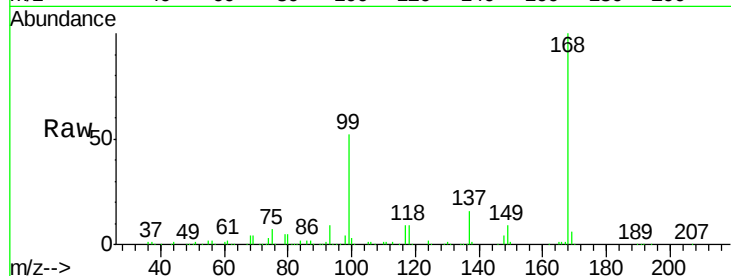
ClientSampleId :

Tot Ion:168 Resp: 1128362

Ion Ratio Lower Upper

168 100

99 52.0 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

500000

400000

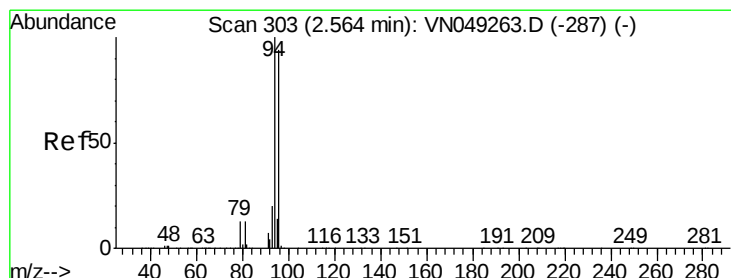
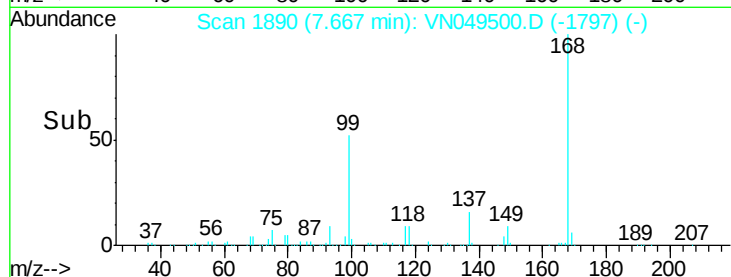
300000

200000

100000

0

Time-->



#5

Bromomethane

Concen: 0.30 ug/l

RT: 2.57 min Scan# 306

Delta R.T. 0.01 min

Lab File: VN049500.D

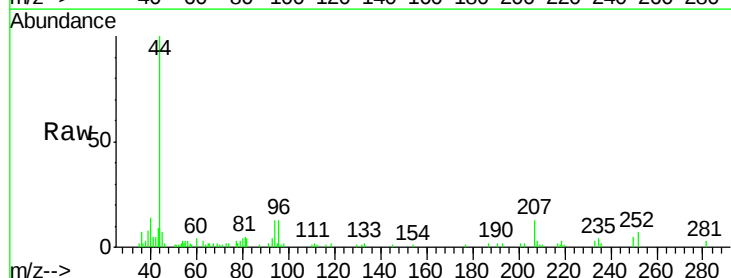
Acq: 22 Jun 2018 18:58

Tgt Ion: 94 Resp: 2803

Ion Ratio Lower Upper

94 100

96 82.5 72.8 109.2



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.57

2000

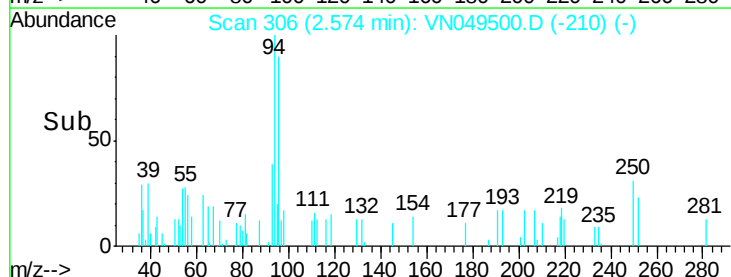
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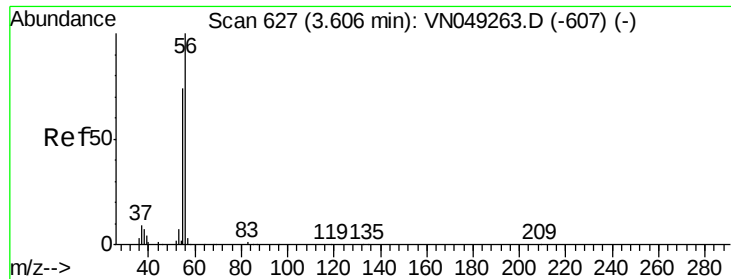
1000

500

0

Time-->

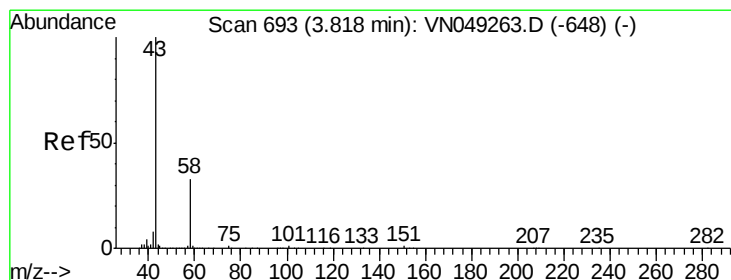
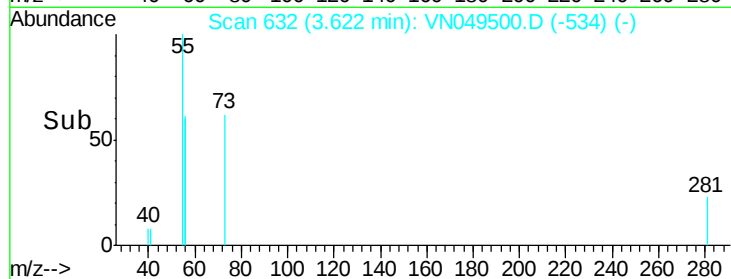
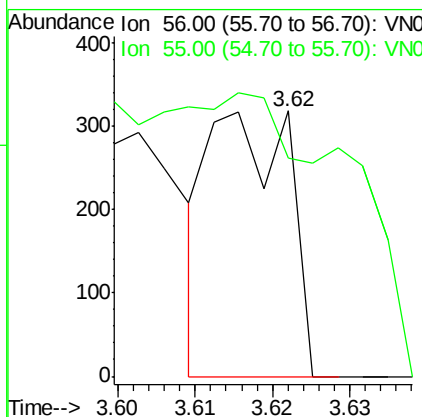
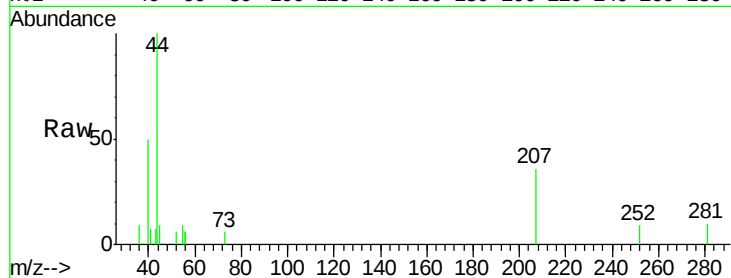




#13
Acrolein
Concen: 0.24 ug/l
RT: 3.62 min Scan# 632
Delta R.T. 0.02 min
Lab File: VN049500.D
Acq: 22 Jun 2018 18:58

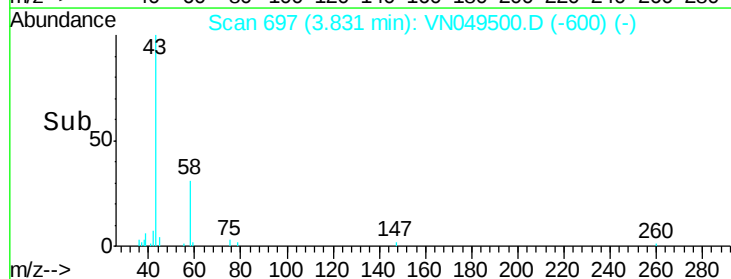
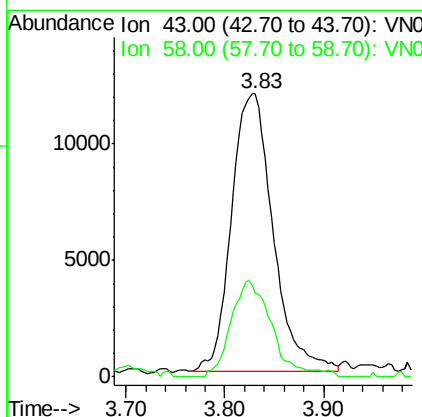
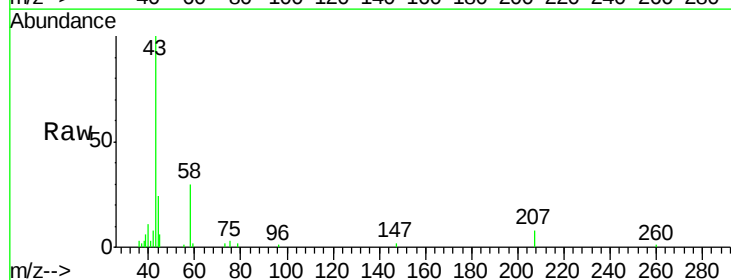
Instrument :
MSVOA_N
ClientSampleId :

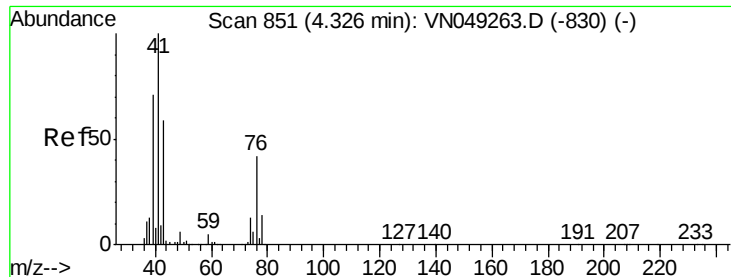
Tot Ion: 56 Resp: 224
Ion Ratio Lower Upper
56 100
55 320.5 57.1 85.7#



#16
Acetone
Concen: 9.59 ug/l
RT: 3.83 min Scan# 697
Delta R.T. 0.01 min
Lab File: VN049500.D
Acq: 22 Jun 2018 18:58

Tgt Ion: 43 Resp: 34843
Ion Ratio Lower Upper
43 100
58 30.3 22.4 33.6

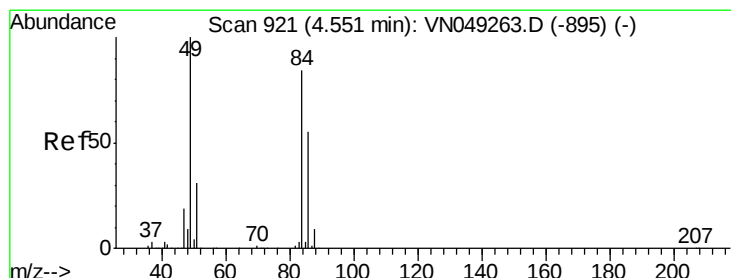
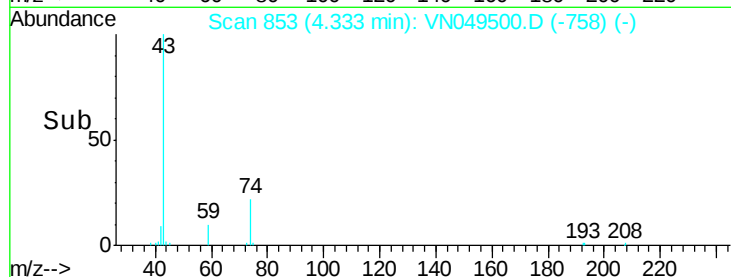
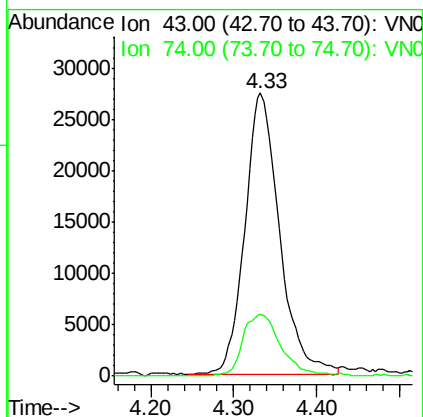
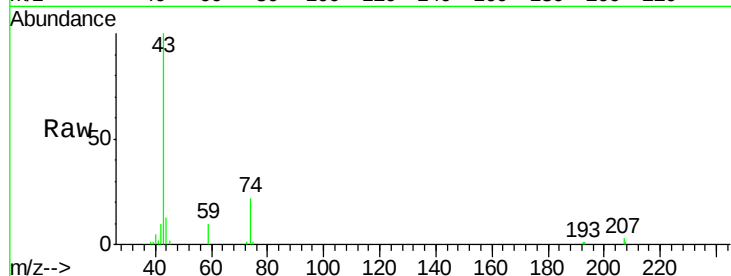




#18
Methvl Acetate
Concen: 7.20 ug/l
RT: 4.33 min Scan# 853
Delta R.T. 0.01 min
Lab File: VN049500.D
Acq: 22 Jun 2018 18:58

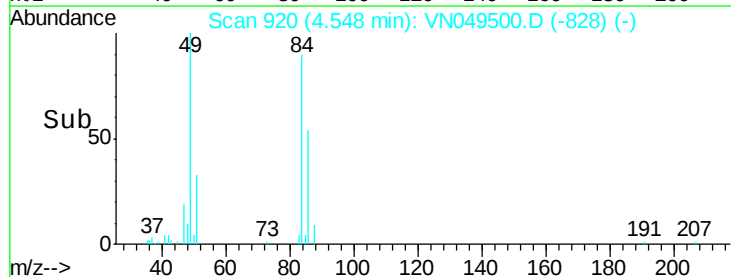
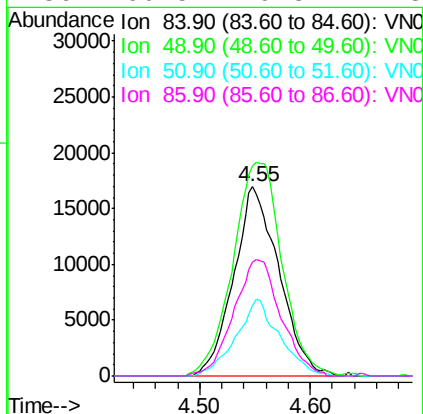
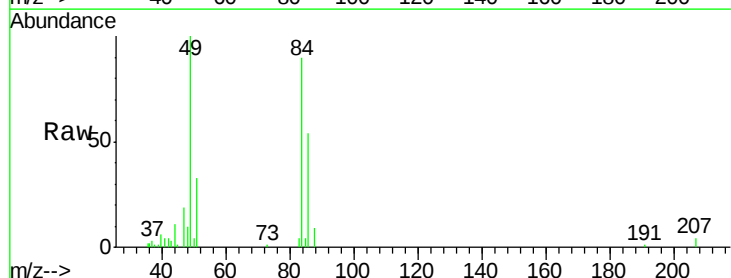
Instrument :
MSVOA_N
ClientSampleId :

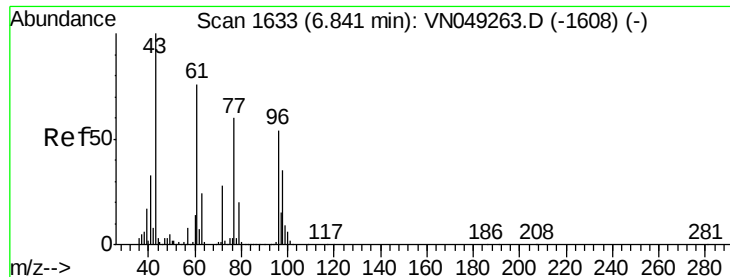
Tot Ion: 43 Resp: 79756
Ion Ratio Lower Upper
43 100
74 24.1 17.4 26.0



#20
Methylene Chloride
Concen: 3.18 ug/l
RT: 4.55 min Scan# 920
Delta R.T. -0.00 min
Lab File: VN049500.D
Acq: 22 Jun 2018 18:58

Tgt Ion: 84 Resp: 48248
Ion Ratio Lower Upper
84 100
49 110.3 106.9 160.3
51 37.0 32.7 49.1
86 60.5 49.8 74.8

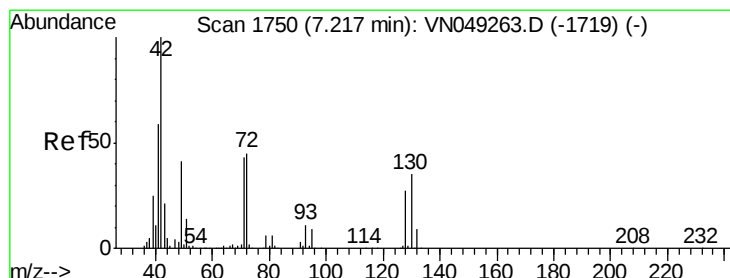
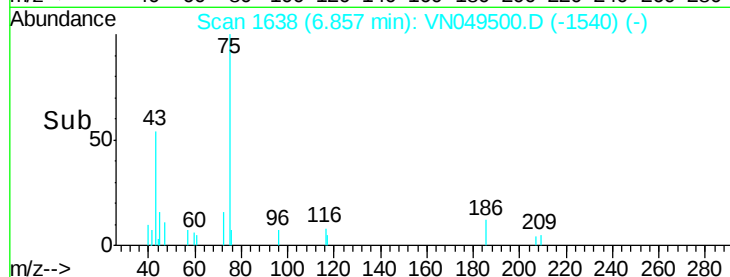
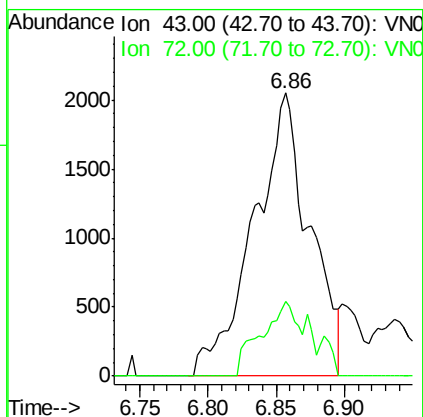
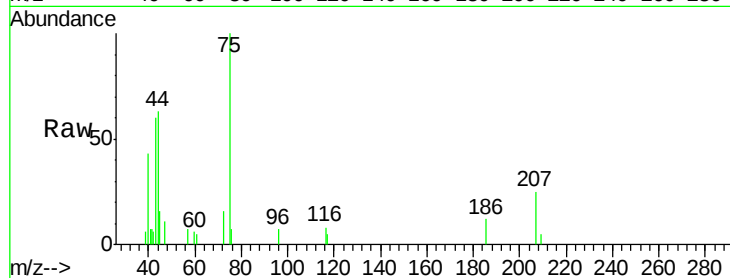




#25
2-Butanone
Concen: 1.19 ug/l
RT: 6.86 min Scan# 1638
Delta R.T. 0.02 min
Lab File: VN049500.D
Acq: 22 Jun 2018 18:58

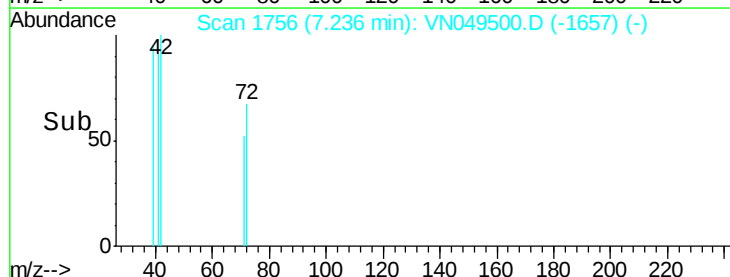
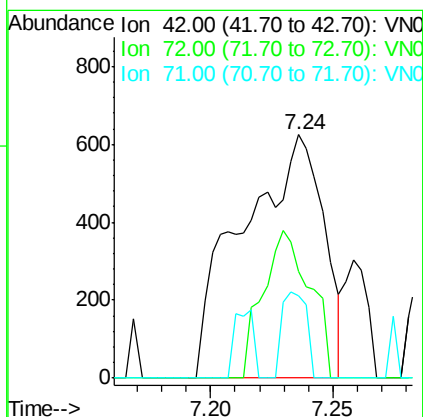
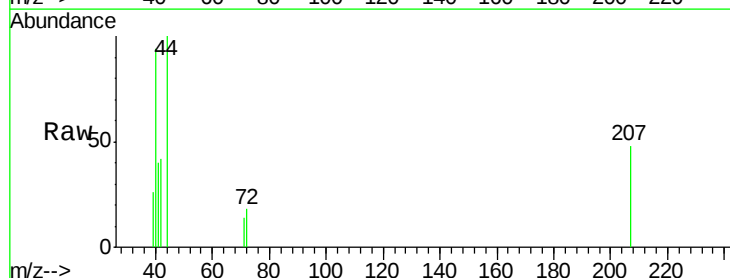
Instrument :
MSVOA_N
ClientSampled :

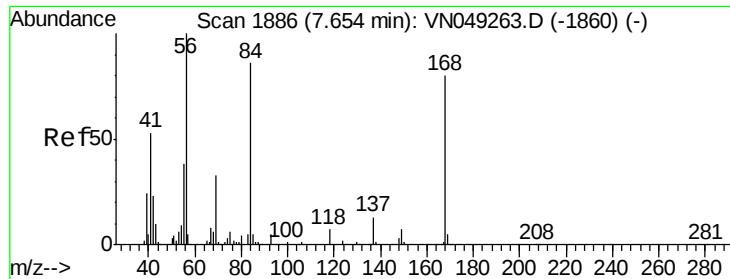
Tot Ion: 43 Resp: 5811
Ion Ratio Lower Upper
43 100
72 26.5 20.2 30.2



#29
Tetrahydrofuran
Concen: 0.46 ug/l
RT: 7.24 min Scan# 1756
Delta R.T. 0.02 min
Lab File: VN049500.D
Acq: 22 Jun 2018 18:58

Tgt Ion: 42 Resp: 1442
Ion Ratio Lower Upper
42 100
72 34.9 32.2 48.4
71 10.9 30.5 45.7#

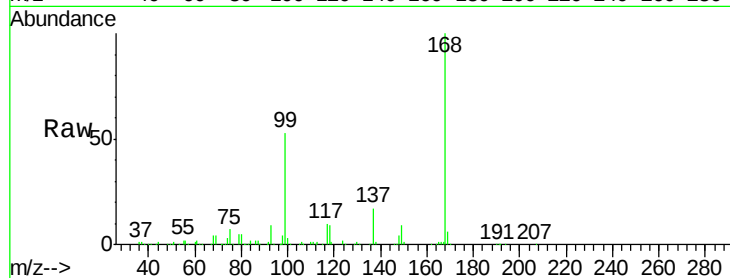




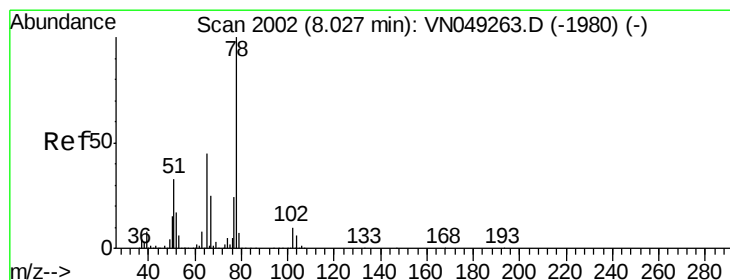
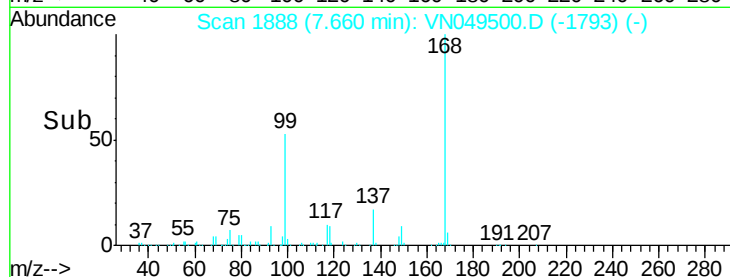
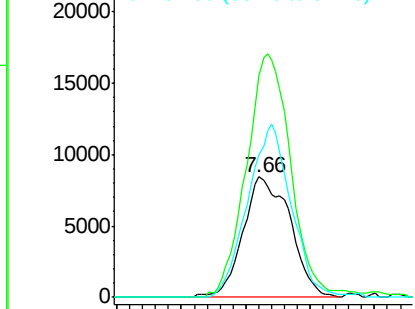
#31
Cyclohexane
Concen: 0.80 ug/l
RT: 7.66 min Scan# 1888
Delta R.T. 0.01 min
Lab File: VN049500.D
Acq: 22 Jun 2018 18:58

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 21554
Ion Ratio Lower Upper
56 100
69 184.5 25.0 37.4#
84 118.6 64.6 96.8#

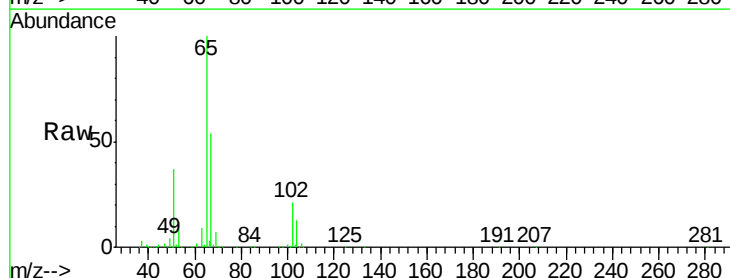


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

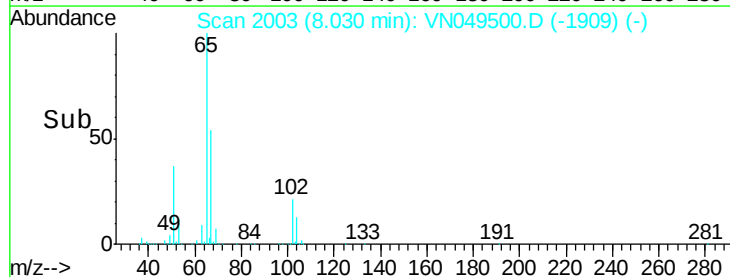
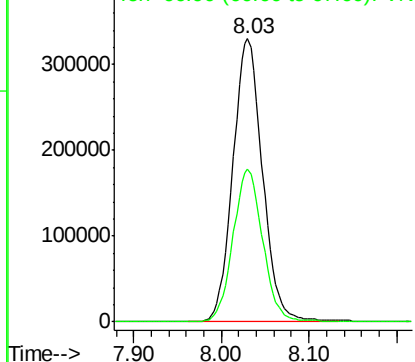


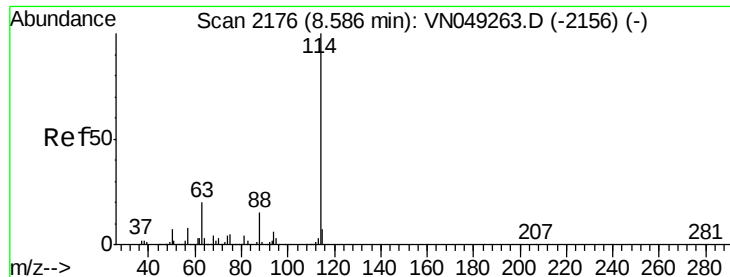
#33
1,2-Dichloroethane-d4
Concen: 52.00 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN049500.D
Acq: 22 Jun 2018 18:58

Tgt Ion: 65 Resp: 778287
Ion Ratio Lower Upper
65 100
67 53.7 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

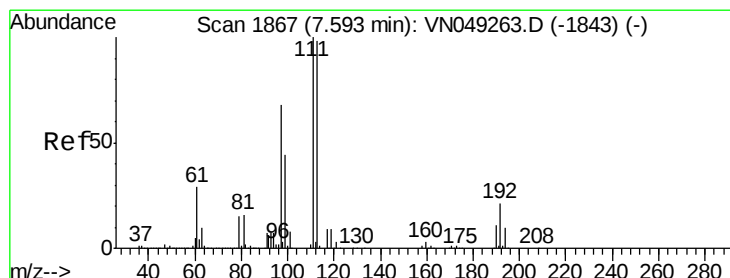
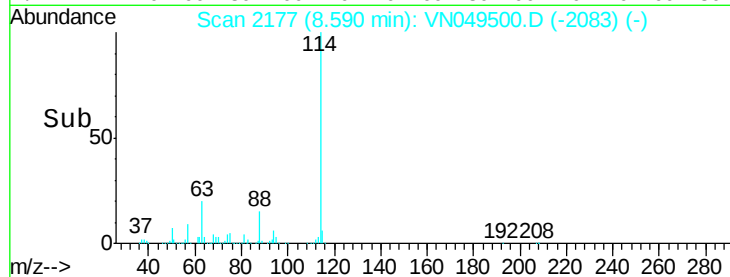
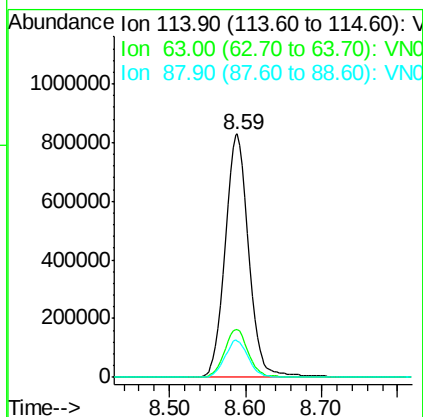
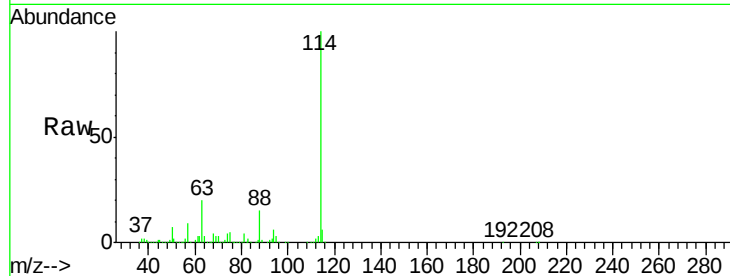




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN049500.D
 Acq: 22 Jun 2018 18:58

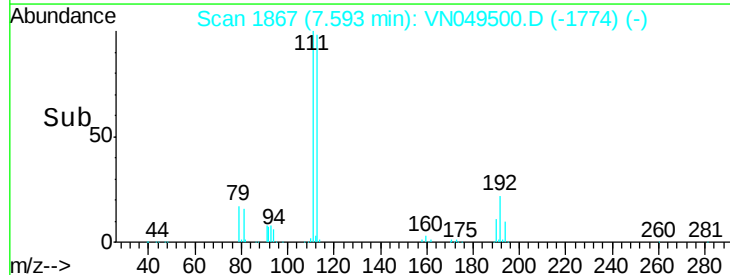
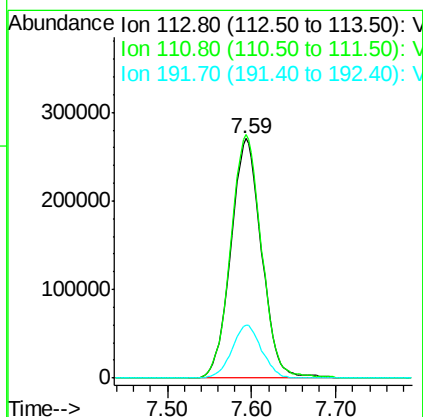
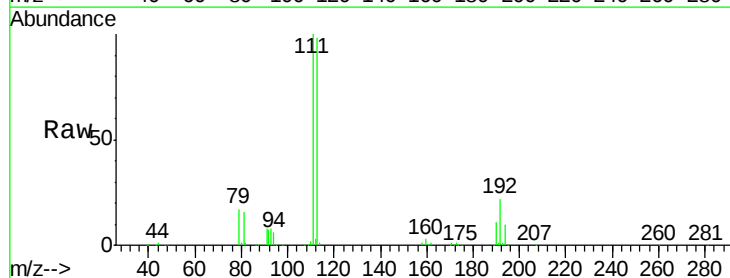
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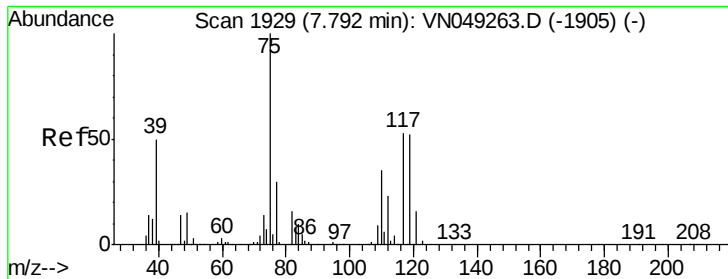
Tot Ion:114 Resp: 1794880
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 44.4
 88 15.1 0.0 31.4



#35
 Dibromofluoromethane
 Concen: 47.14 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN049500.D
 Acq: 22 Jun 2018 18:58

Tgt Ion:113 Resp: 684511
 Ion Ratio Lower Upper
 113 100
 111 102.2 82.4 123.6
 192 21.5 15.0 22.6





#36

1,1-Dichloropropene

Concen: 3.83 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.13 min

Lab File: VN049500.D

Acq: 22 Jun 2018 18:58

Instrument :
MSVOA_N
ClientSampled :

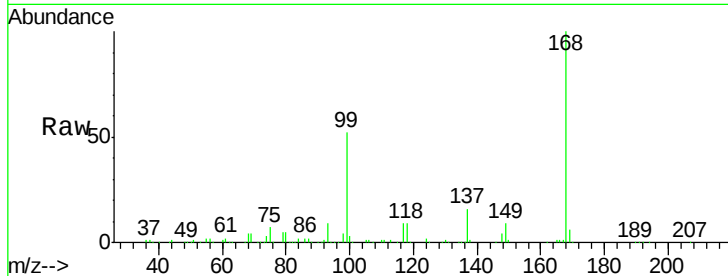
Tot Ion: 75 Resp: 78787

Ion Ratio Lower Upper

75 100

110 7.8 17.0 50.9#

77 0.0 24.4 36.6#

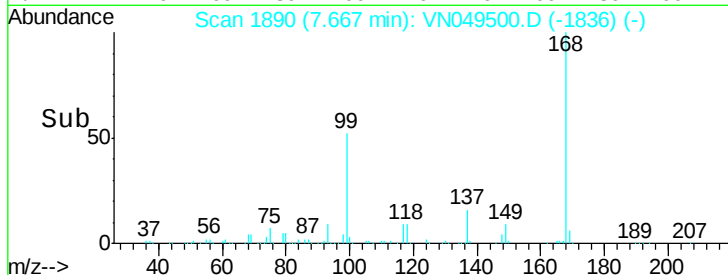


Abundance Ion 74.90 (74.60 to 75.60): VN049263.D (-1905) (-)

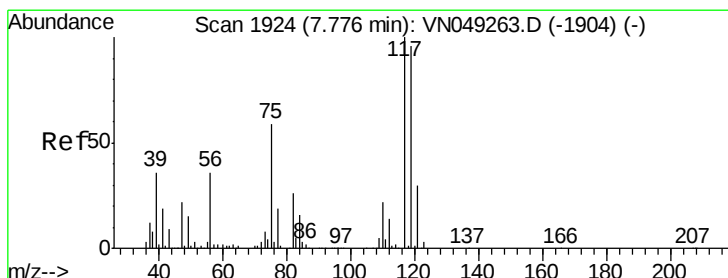
Ion 109.90 (109.60 to 110.60): VN049263.D (-1905) (-)

Ion 76.90 (76.60 to 77.60): VN049263.D (-1905) (-)

Time-->



Time-->



#38

Carbon Tetrachloride

Concen: 4.90 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN049500.D

Acq: 22 Jun 2018 18:58

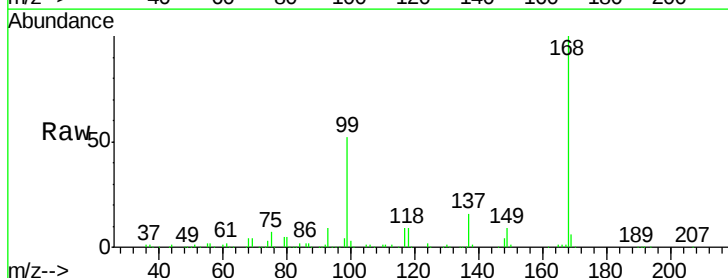
Tgt Ion: 117 Resp: 104295

Ion Ratio Lower Upper

117 100

119 5.2 75.6 113.4#

121 0.0 24.7 37.1#

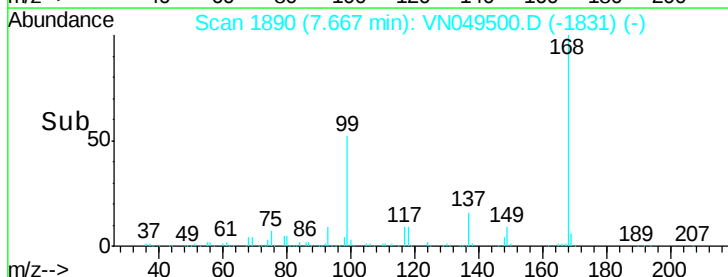


Abundance Ion 116.80 (116.50 to 117.50): VN049263.D (-1904) (-)

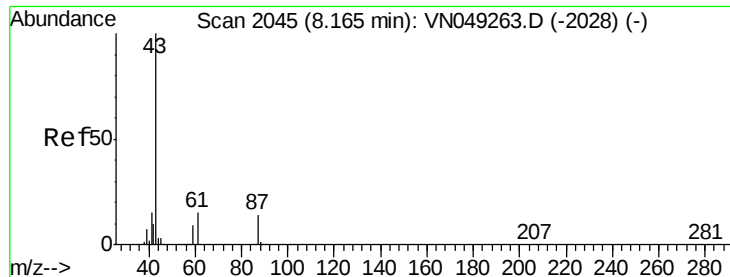
Ion 118.80 (118.50 to 119.50): VN049263.D (-1904) (-)

Ion 120.80 (120.50 to 121.50): VN049263.D (-1904) (-)

Time-->



Time-->



#43

Isopropyl Acetate

Concen: 6.22 ug/l

RT: 8.24 min Scan# 2067

Delta R.T. 0.07 min

Lab File: VN049500.D

Acq: 22 Jun 2018 18:58

Instrument :

MSVOA_N

ClientSampled :

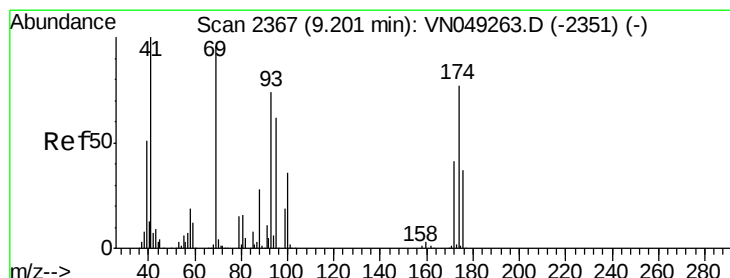
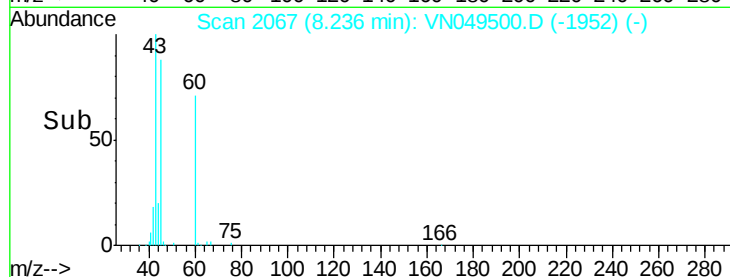
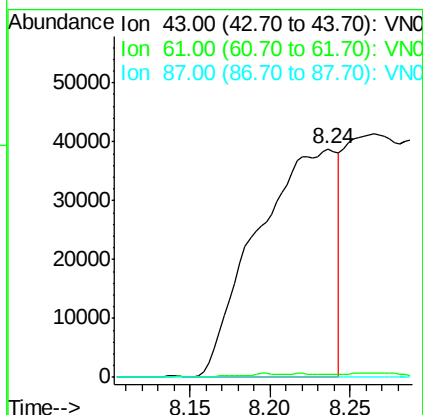
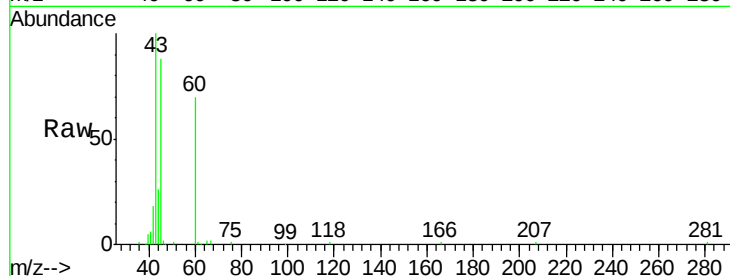
Tot Ion: 43 Resp: 132985

Ion Ratio Lower Upper

43 100

61 0.0 14.2 21.4#

87 0.0 9.4 14.0#



#49

1,4-Dioxane

Concen: 2.18 ug/l

RT: 9.22 min Scan# 2372

Delta R.T. 0.02 min

Lab File: VN049500.D

Acq: 22 Jun 2018 18:58

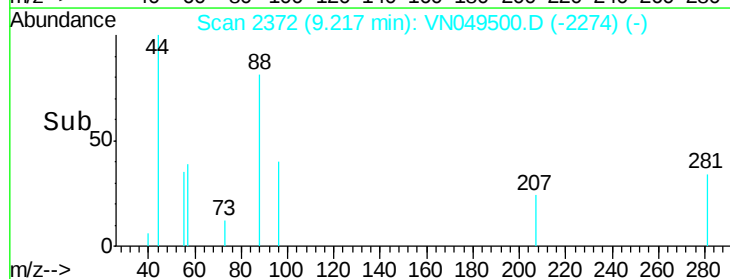
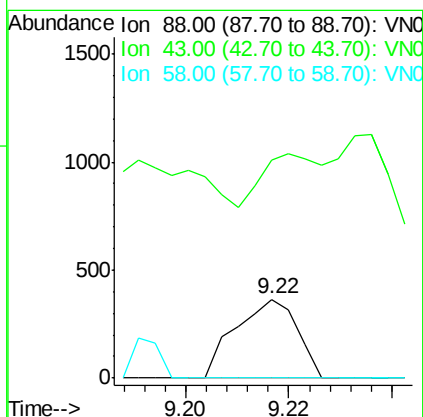
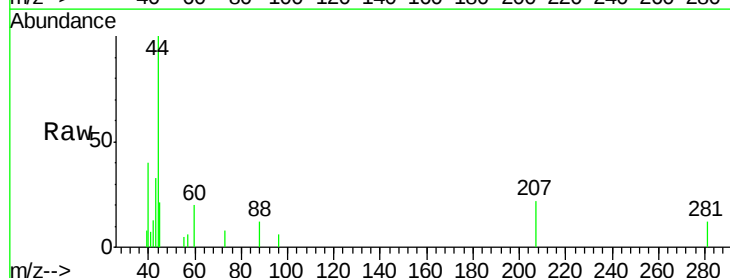
Tgt Ion: 88 Resp: 303

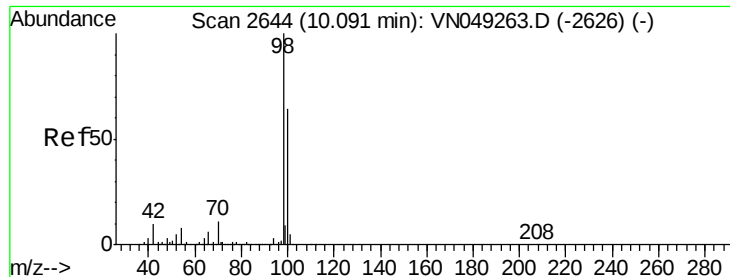
Ion Ratio Lower Upper

88 100

43 63.7 30.9 46.3#

58 0.0 58.9 88.3#





#50

Toluene-d8

Concen: 44.49 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN049500.D

Acq: 22 Jun 2018 18:58

Instrument :

MSVOA_N

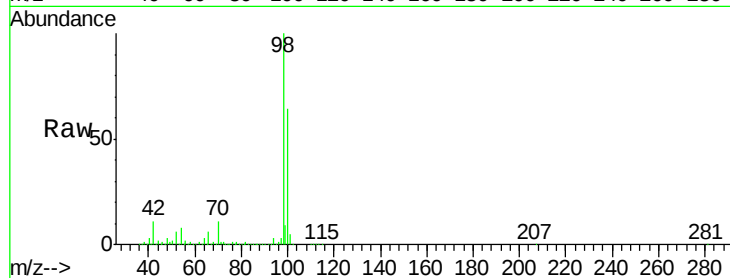
ClientSampleId :

Tot Ion: 98 Resp: 2459847

Ion Ratio Lower Upper

98 100

100 63.4 49.8 74.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

1500000

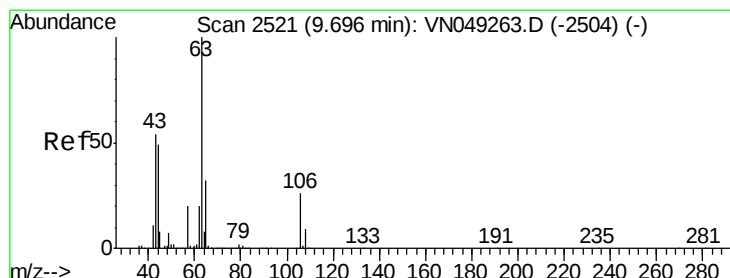
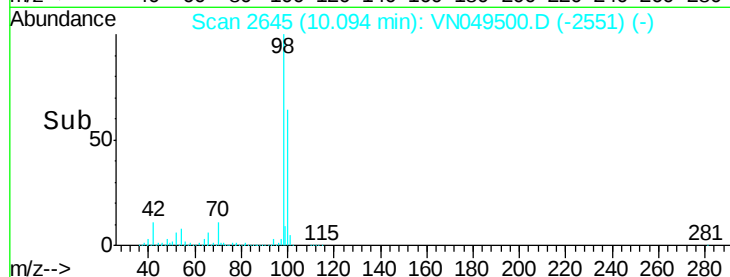
1000000

500000

0

10.09

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 14.33 ug/l

RT: 9.82 min Scan# 2559

Delta R.T. 0.12 min

Lab File: VN049500.D

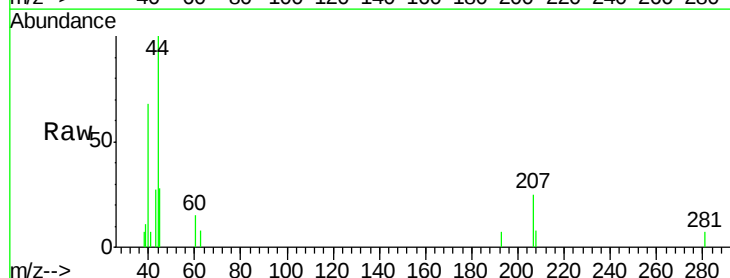
Acq: 22 Jun 2018 18:58

Tgt Ion: 63 Resp: 33

Ion Ratio Lower Upper

63 100

106 0.0 19.4 29.2#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

200

150

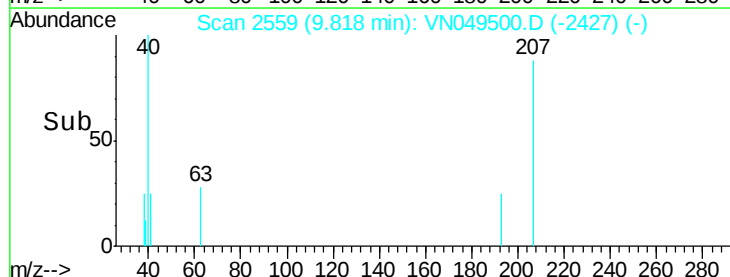
100

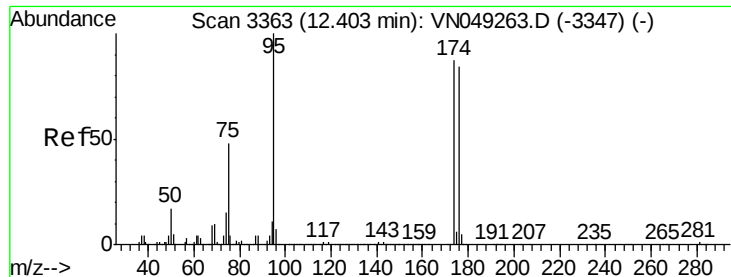
50

0

9.82

Time-->





#62

4-Bromofluorobenzene

Concen: 31.54 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN049500.D

Acq: 22 Jun 2018 18:58

Instrument :

MSVOA_N

ClientSampleId :

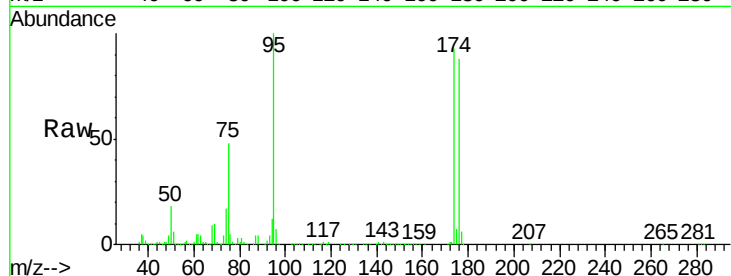
Tot Ion: 95 Resp: 576640

Ion Ratio Lower Upper

95 100

174 92.0 0.0 165.6

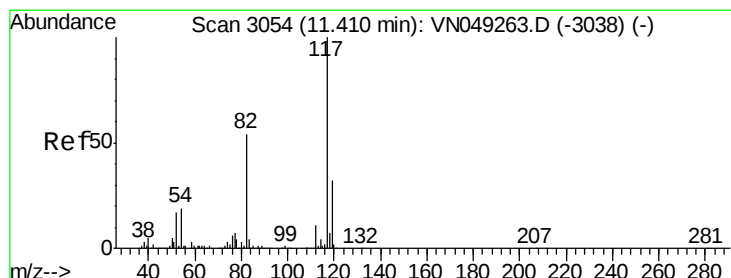
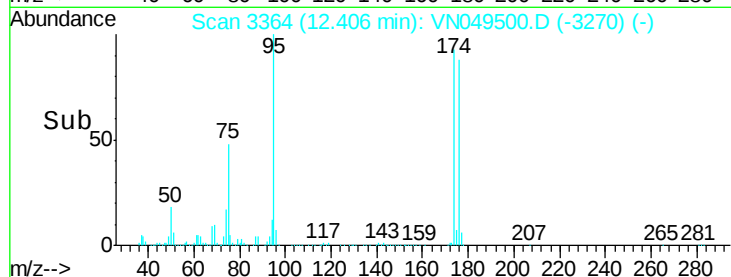
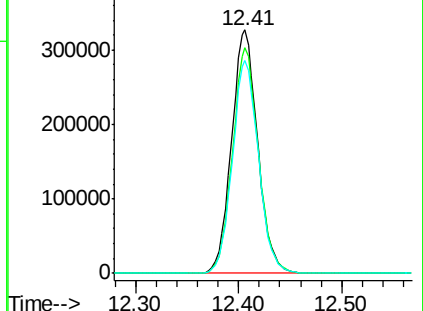
176 87.4 0.0 157.4



Abundance Ion 94.90 (94.60 to 95.60): VN049500.D (-3270) (-)

Ion 173.80 (173.50 to 174.50): VN049500.D (-3270) (-)

Ion 175.80 (175.50 to 176.50): VN049500.D (-3270) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. -0.00 min

Lab File: VN049500.D

Acq: 22 Jun 2018 18:58

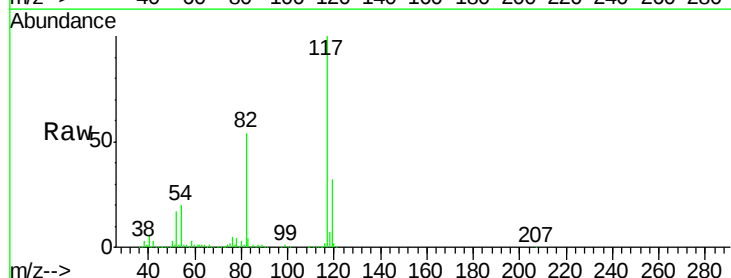
Tgt Ion: 117 Resp: 1484668

Ion Ratio Lower Upper

117 100

82 54.2 45.9 68.9

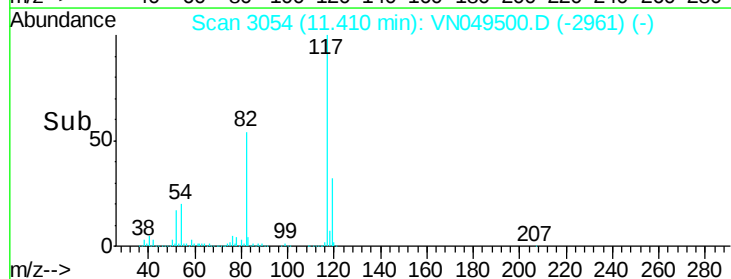
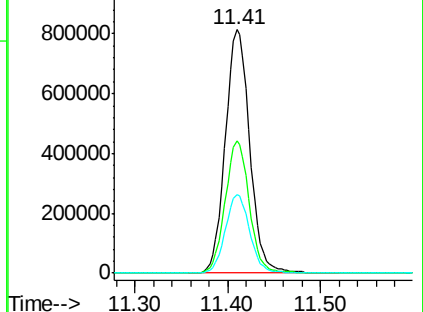
119 32.3 25.5 38.3

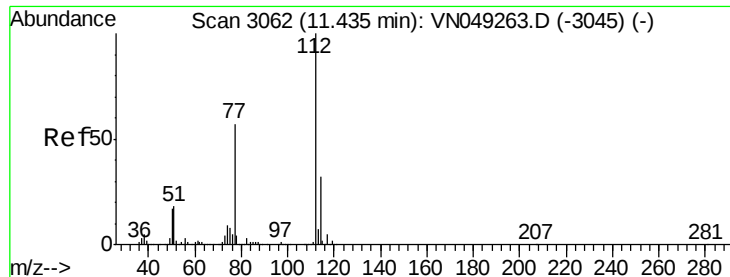


Abundance Ion 116.90 (116.60 to 117.60): VN049500.D (-2961) (-)

Ion 82.00 (81.70 to 82.70): VN049500.D (-2961) (-)

Ion 118.90 (118.60 to 119.60): VN049500.D (-2961) (-)

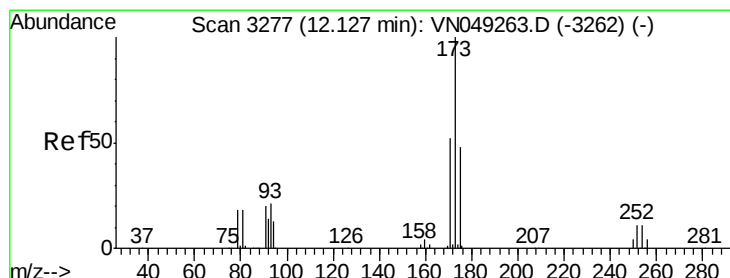
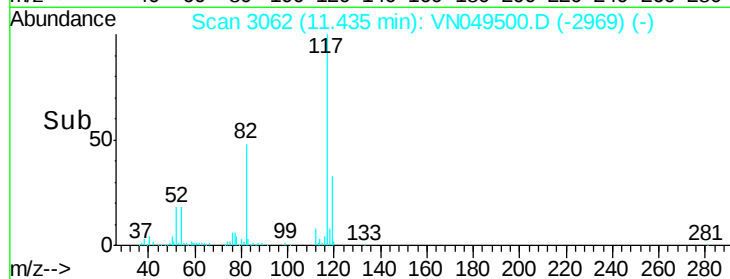
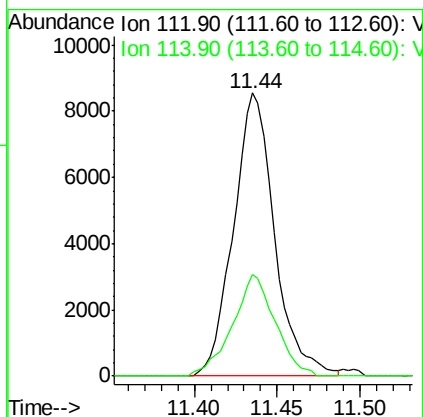
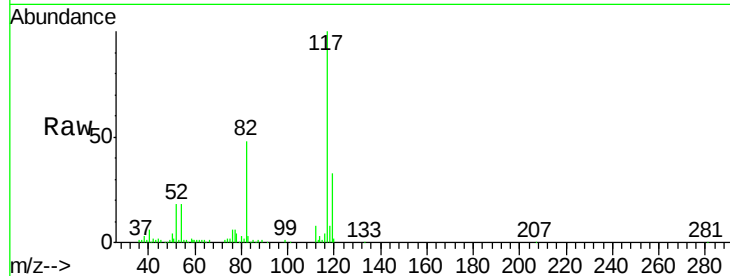




#65
Chlorobenzene
Concen: 0.39 ug/l
RT: 11.44 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN049500.D
Acq: 22 Jun 2018 18:58

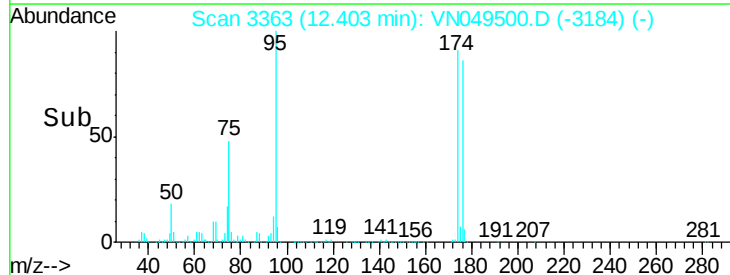
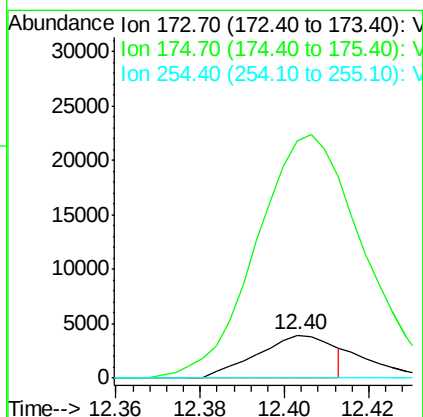
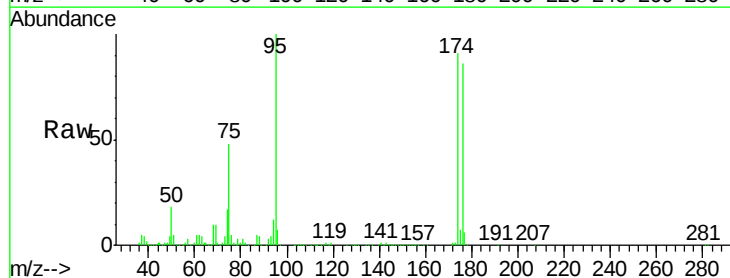
Instrument :
MSVOA_N
ClientSampled :

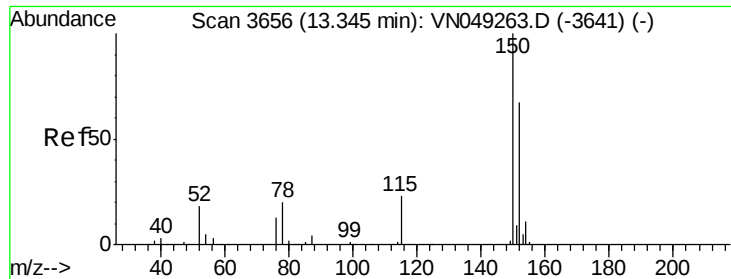
Tot Ion:112 Resp: 14727
Ion Ratio Lower Upper
112 100
114 36.0 26.2 39.4



#71
Bromoform
Concen: 0.53 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.28 min
Lab File: VN049500.D
Acq: 22 Jun 2018 18:58

Tgt Ion:173 Resp: 4937
Ion Ratio Lower Upper
173 100
175 595.5 24.5 73.5#
254 0.0 0.1 0.1#



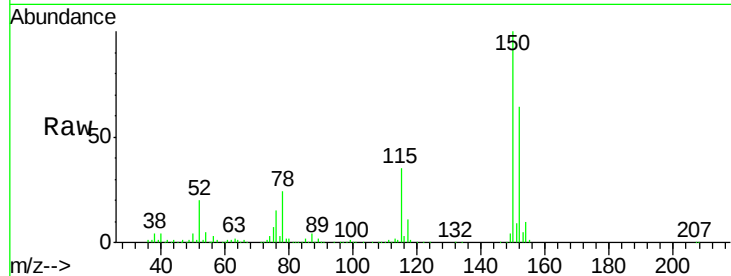


#72

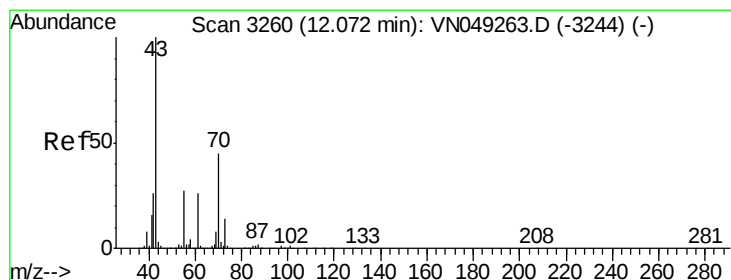
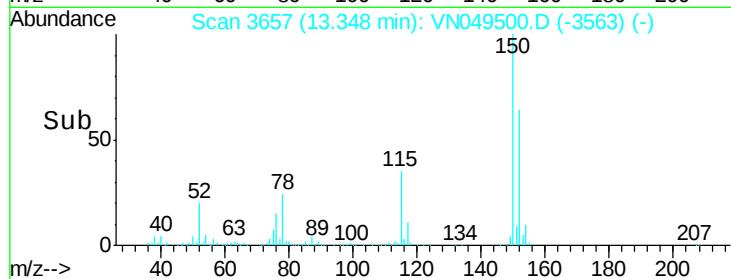
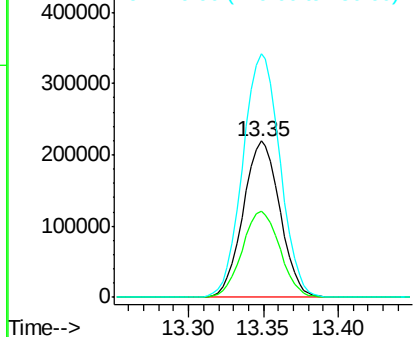
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3657
Delta R.T. 0.00 min
Lab File: VN049500.D
Acq: 22 Jun 2018 18:58

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:152 Resp: 375416
Ion Ratio Lower Upper
152 100
115 56.5 28.7 86.1
150 158.1 0.0 351.0



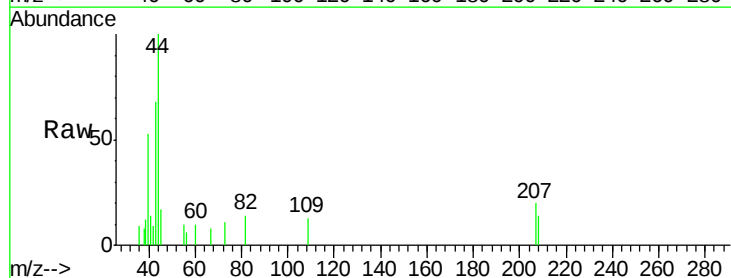
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



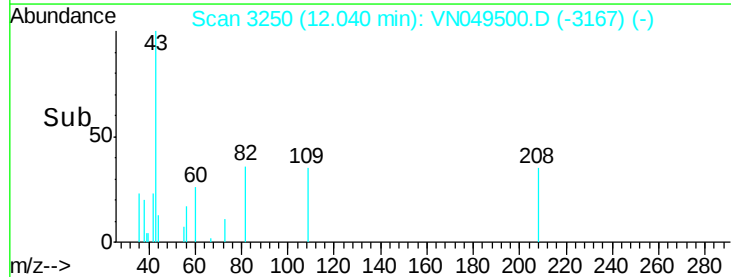
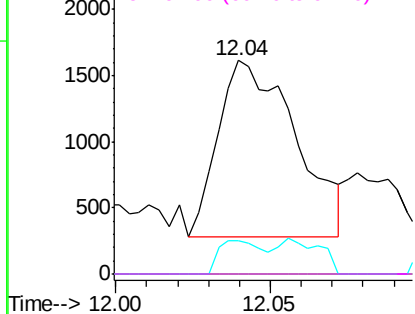
#74

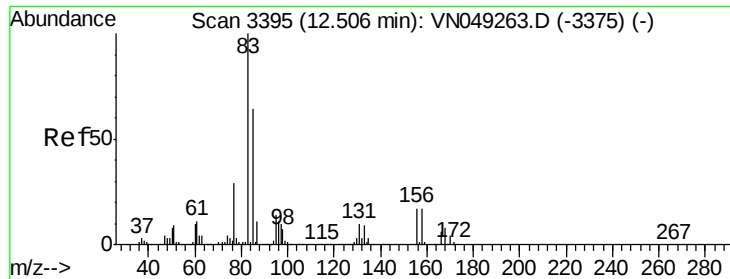
N-ethyl acetate
Concen: 0.29 ug/l
RT: 12.04 min Scan# 3250
Delta R.T. -0.03 min
Lab File: VN049500.D
Acq: 22 Jun 2018 18:58

Tgt Ion: 43 Resp: 2317
Ion Ratio Lower Upper
43 100
70 0.0 30.3 45.5#
55 10.7 19.4 29.2#
61 0.0 17.8 26.6#



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 70.00 (69.70 to 70.70): V
Ion 55.00 (54.70 to 55.70): V
Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.53 min Scan# 3404

Delta R.T. 0.03 min

Lab File: VN049500.D

Acq: 22 Jun 2018 18:58

Instrument :

MSVOA_N

ClientSampled :

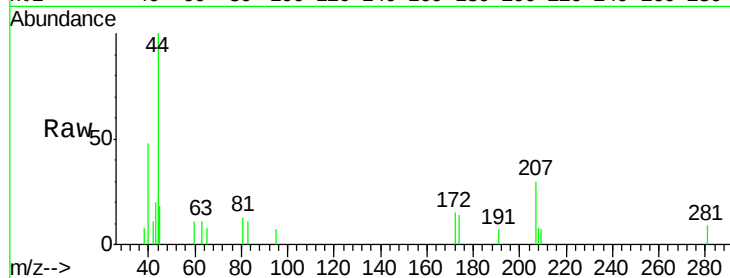
Tot Ion: 83 Resp: 126

Ion Ratio Lower Upper

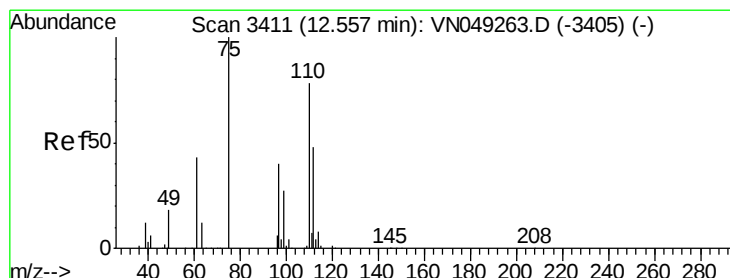
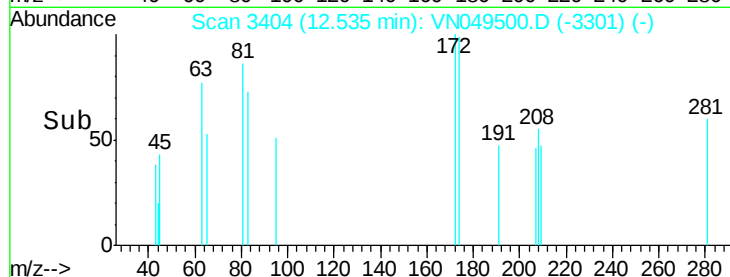
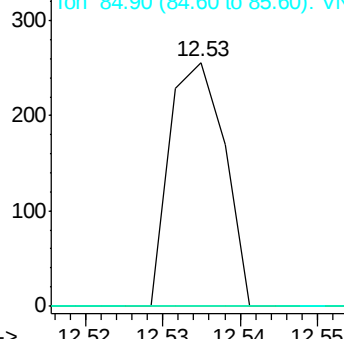
83 100

131 0.0 5.0 15.0#

85 0.0 32.0 96.0#



Abundance Ion 82.90 (82.60 to 83.60): VN049500.D (-3375) (-)



#76

1,2,3-Trichloropropane

Concen: 43.96 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. -0.15 min

Lab File: VN049500.D

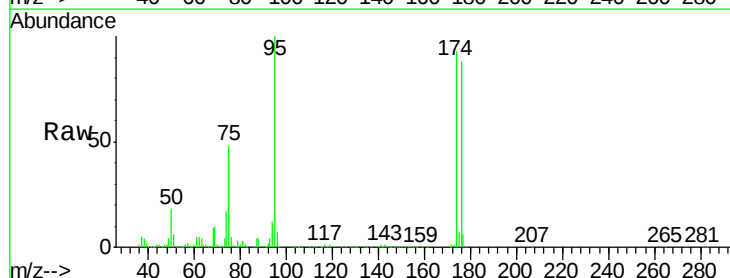
Acq: 22 Jun 2018 18:58

Tgt Ion: 75 Resp: 281589

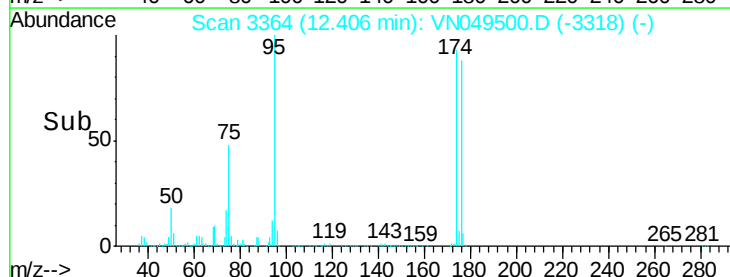
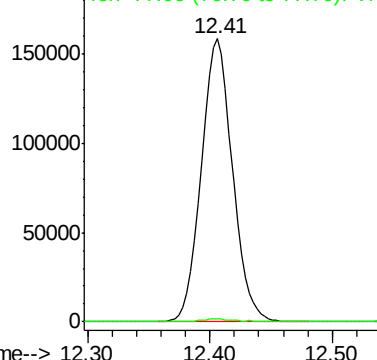
Ion Ratio Lower Upper

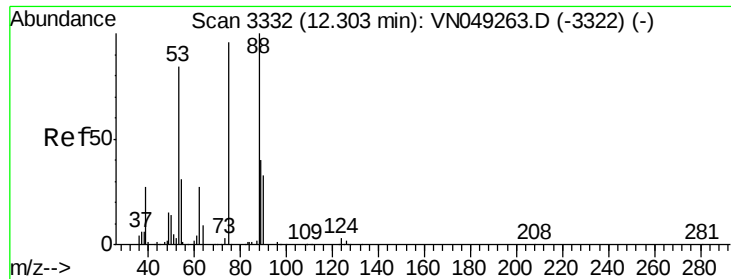
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN049500.D (-3318) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 138.94 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.10 min

Lab File: VN049500.D

Acq: 22 Jun 2018 18:58

Instrument :

MSVOA_N

ClientSampled :

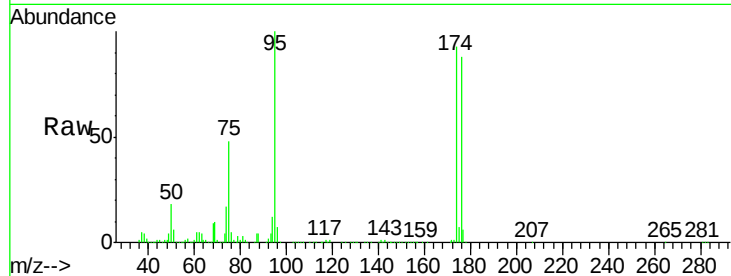
Tot Ion: 75 Resp: 281589

Ion Ratio Lower Upper

75 100

53 0.2 82.7 124.1#

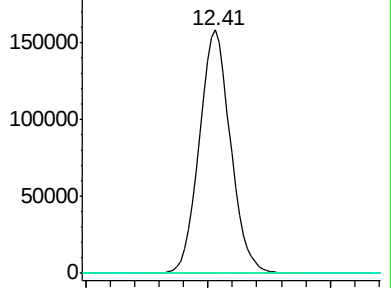
89 0.0 36.5 54.7#



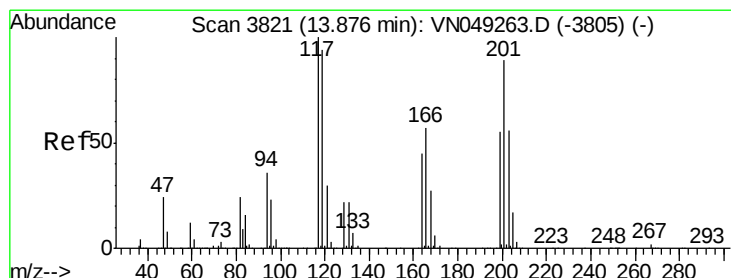
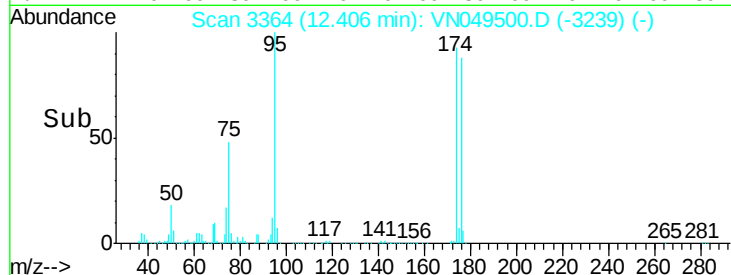
Abundance Ion 74.90 (74.60 to 75.60): VN049500.D (-3364) (-)

Ion 53.00 (52.70 to 53.70): VN049500.D (-3364) (-)

Ion 88.90 (88.60 to 89.60): VN049500.D (-3364) (-)



Time-->



#90

Hexachloroethane

Concen: Below Cal

RT: 13.65 min Scan# 3750

Delta R.T. -0.23 min

Lab File: VN049500.D

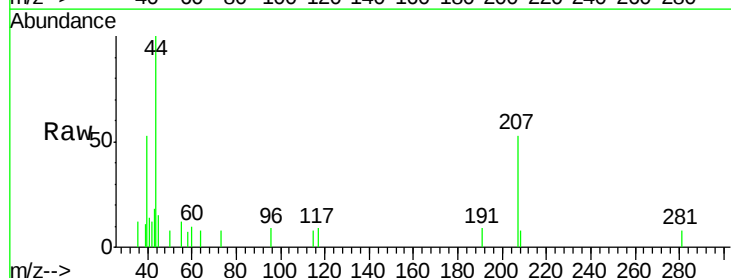
Acq: 22 Jun 2018 18:58

Tgt Ion: 117 Resp: 35

Ion Ratio Lower Upper

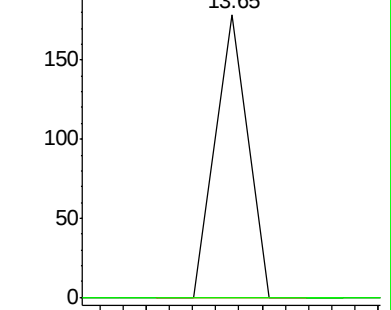
117 100

201 0.0 40.1 120.2#

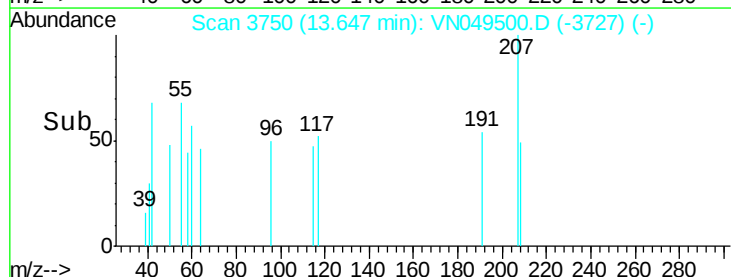


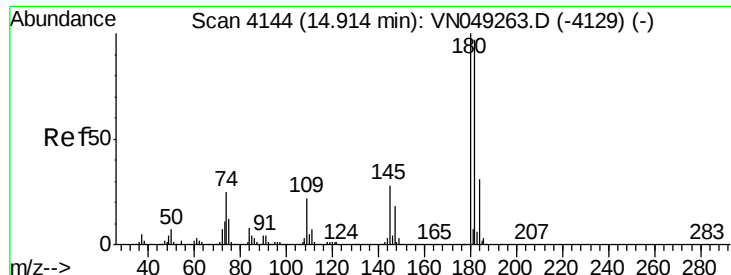
Abundance Ion 116.80 (116.50 to 117.50): VN049500.D (-3750) (-)

Ion 200.70 (200.40 to 201.40): VN049500.D (-3750) (-)



Time-->

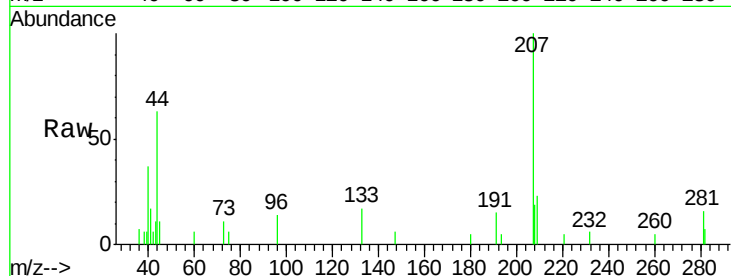




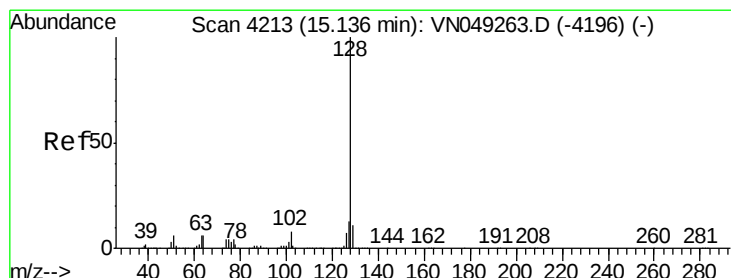
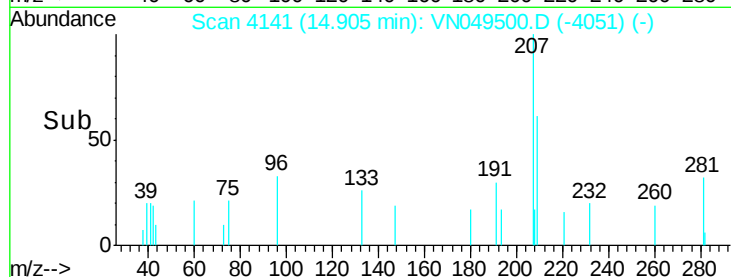
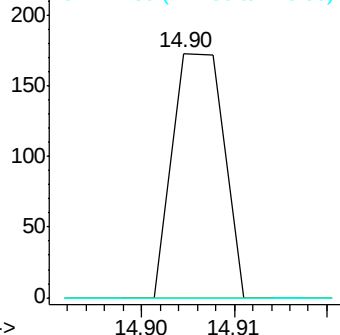
#93
 1,2,4-Trichlorobenzene
 Concen: 4.75 ug/l
 RT: 14.90 min Scan# 4141
 Delta R.T. -0.01 min
 Lab File: VN049500.D
 Acq: 22 Jun 2018 18:58

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:180 Resp: 67
 Ion Ratio Lower Upper
 180 100
 182 0.0 46.9 140.8#
 145 0.0 14.7 44.1#

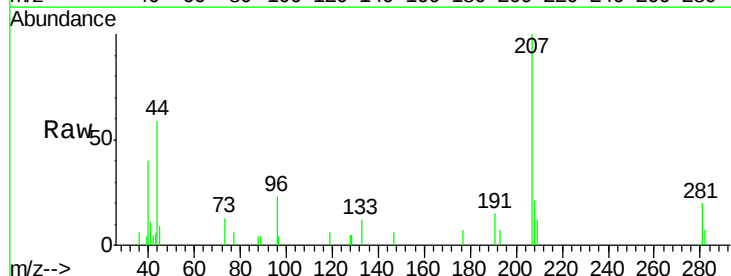


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V



#95
 Naphthalene
 Concen: 2.11 ug/l
 RT: 15.14 min Scan# 4215
 Delta R.T. 0.01 min
 Lab File: VN049500.D
 Acq: 22 Jun 2018 18:58

Tgt Ion:128 Resp: 368
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.6 16.0#
 129 0.0 8.5 12.7#



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

