

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062218\
 Data File : VN049502.D
 Acq On : 22 Jun 2018 19:49
 Operator : MD\SY
 Sample : J3645-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 22 22:17:21 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	1139449	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1803471	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1516602	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	381780	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	780741	51.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.32%	
35) Dibromofluoromethane	7.59	113	680323	46.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.26%	
50) Toluene-d8	10.09	98	2490671	44.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.66%	
62) 4-Bromofluorobenzene	12.41	95	593491	32.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	64.62%	

Target Compounds

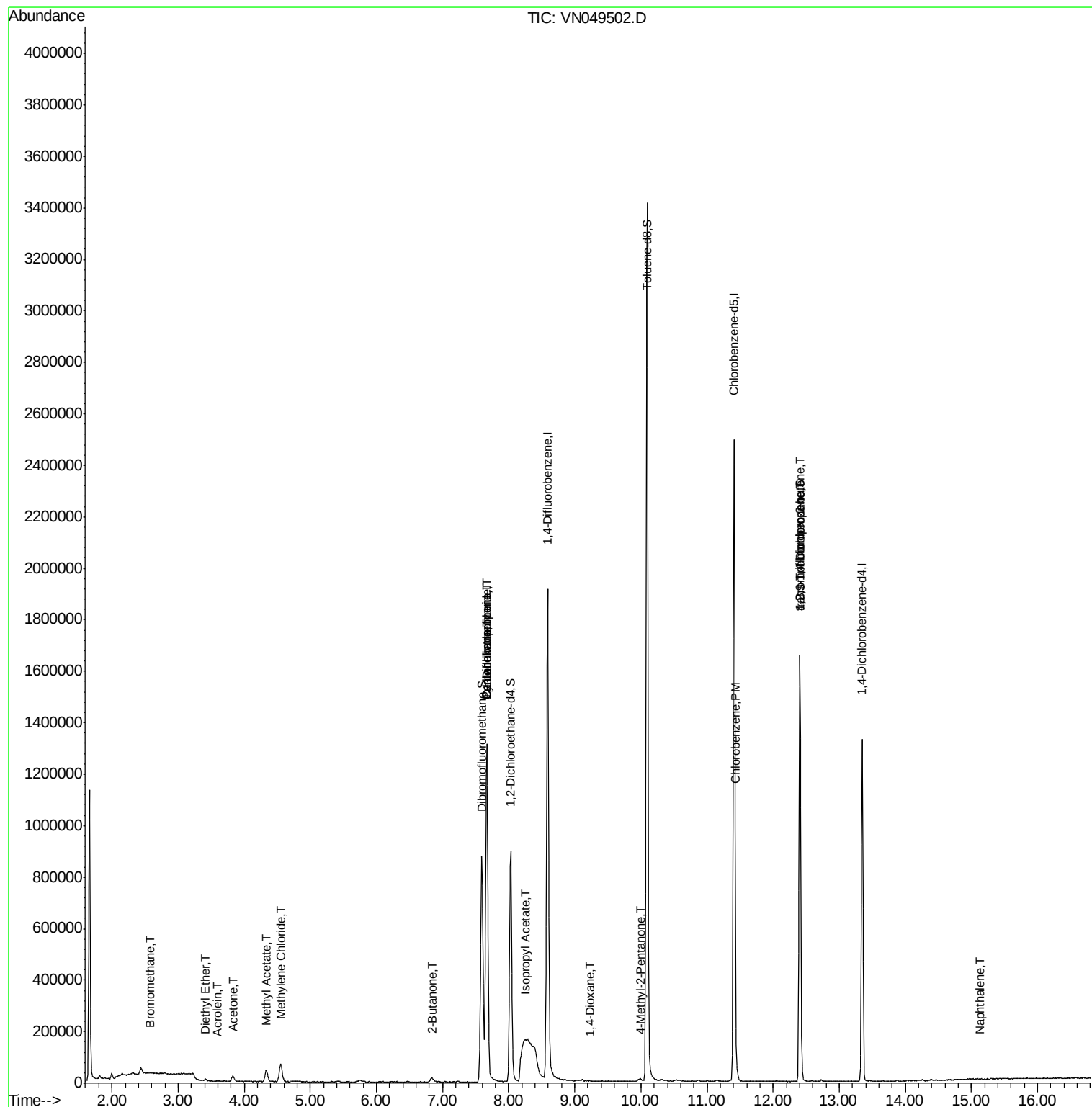
						Qvalue
5) Bromomethane	2.57	94	3024	0.32	ug/l	81
8) Diethyl Ether	3.41	74	3733	0.48	ug/l	95
13) Acrolein	3.60	56	557	0.60	ug/l	89
16) Acetone	3.83	43	35463	9.66	ug/l	98
18) Methyl Acetate	4.33	43	84604	7.56	ug/l	97
20) Methylene Chloride	4.55	84	54415	3.55	ug/l #	82
25) 2-Butanone	6.85	43	4245	0.86	ug/l #	88
31) Cyclohexane	7.66	56	22448	0.83	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	81097	3.92	ug/l #	51
38) Carbon Tetrachloride	7.67	117	103468	4.84	ug/l #	17
43) Isopropyl Acetate	8.24	43	243898	11.36	ug/l #	64
49) 1,4-Dioxane	9.23	88	153	1.10	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	4316	0.38	ug/l #	81
65) Chlorobenzene	11.44	112	14688	0.38	ug/l #	84
75) 1,1,2,2-Tetrachloroethane	12.44	83	68	Below	Cal #	26
76) 1,2,3-Trichloropropane	12.40	75	293336	45.03	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	293336	142.32	ug/l #	9
90) Hexachloroethane	13.87	117	34	Below	Cal #	9
95) Naphthalene	15.13	128	119	2.09	ug/l #	69

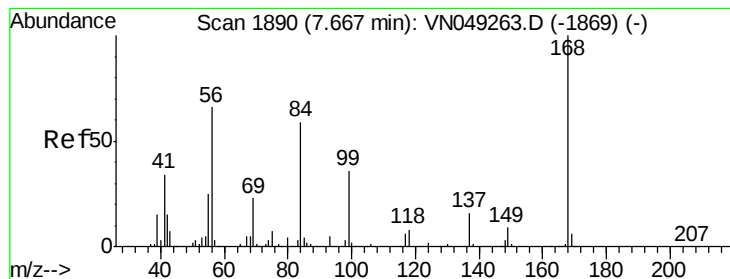
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN049502.D

Acq: 22 Jun 2018 19:49

Instrument :

MSVOA_N

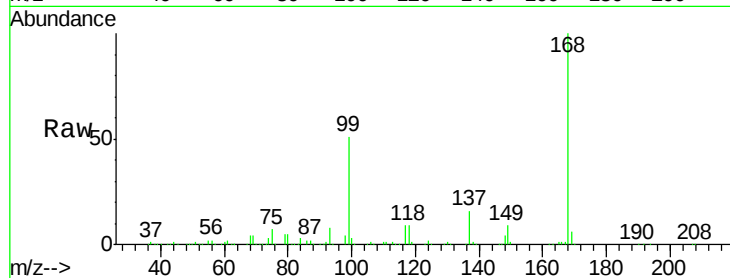
ClientSampled :

Tot Ion:168 Resp: 1139449

Ion Ratio Lower Upper

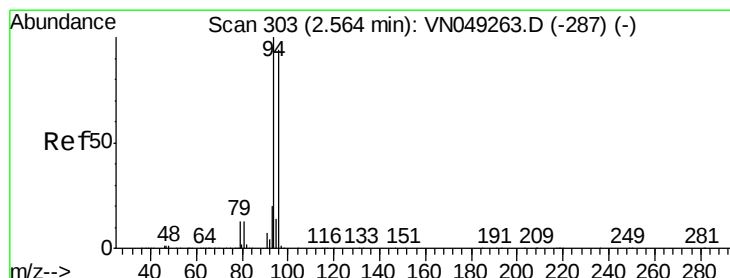
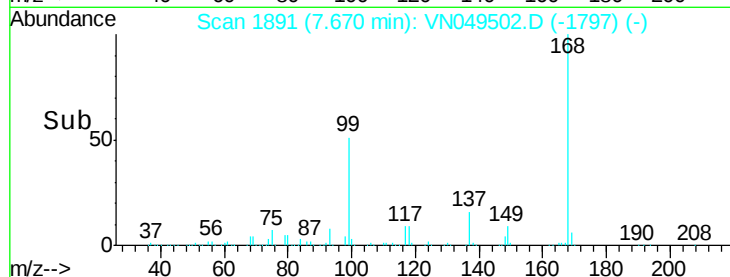
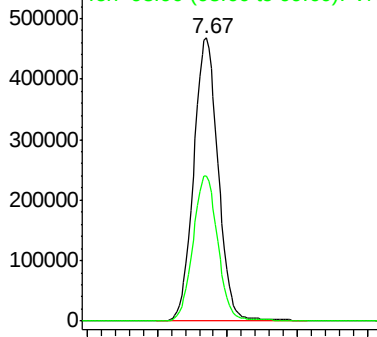
168 100

99 51.3 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#5

Bromomethane

Concen: 0.32 ug/l

RT: 2.57 min Scan# 305

Delta R.T. 0.01 min

Lab File: VN049502.D

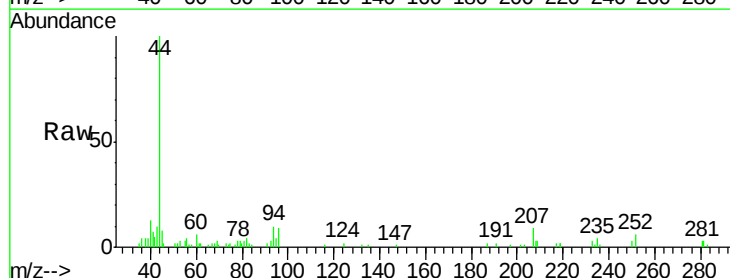
Acq: 22 Jun 2018 19:49

Tgt Ion: 94 Resp: 3024

Ion Ratio Lower Upper

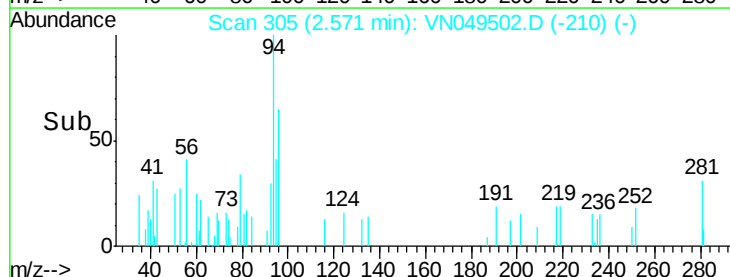
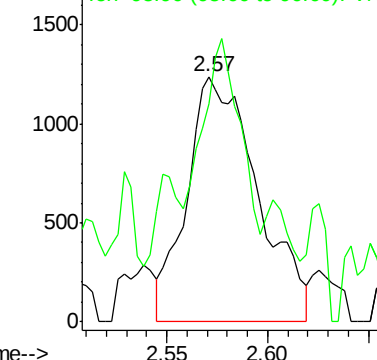
94 100

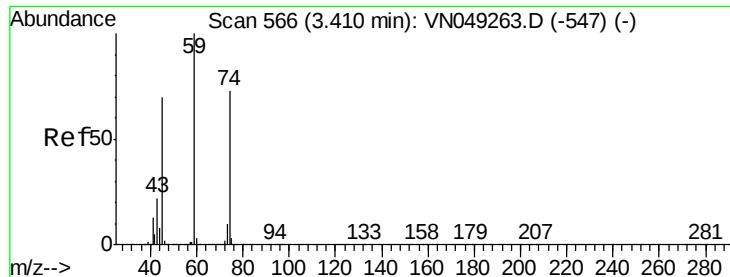
96 72.9 72.8 109.2



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO





#8

Diethyl Ether

Concen: 0.48 ug/l

RT: 3.41 min Scan# 567

Delta R.T. 0.00 min

Lab File: VN049502.D

Acq: 22 Jun 2018 19:49

Instrument :

MSVOA_N

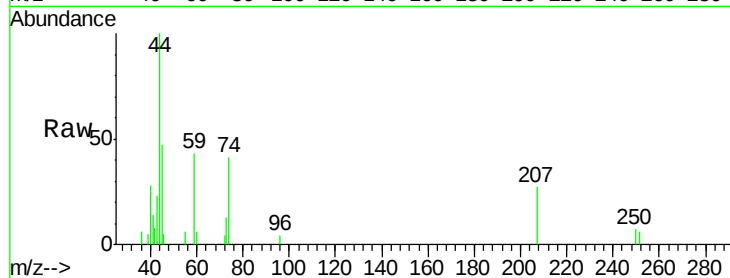
ClientSampled :

Tot Ion: 74 Resp: 3733

Ion Ratio Lower Upper

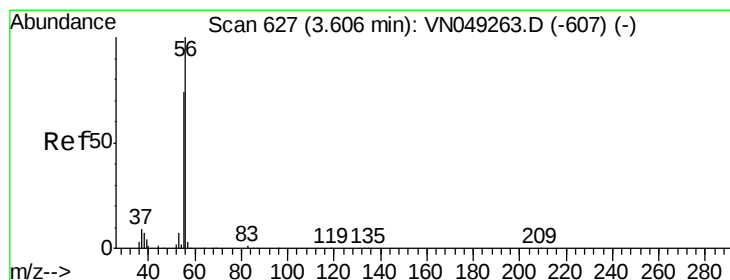
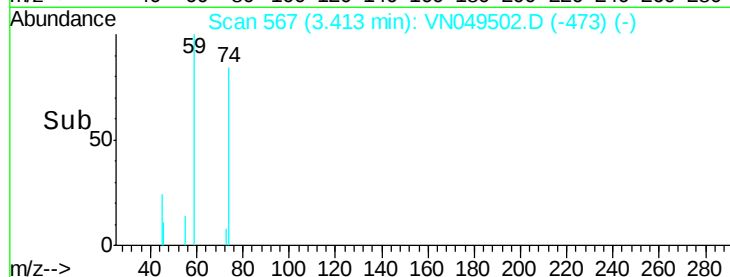
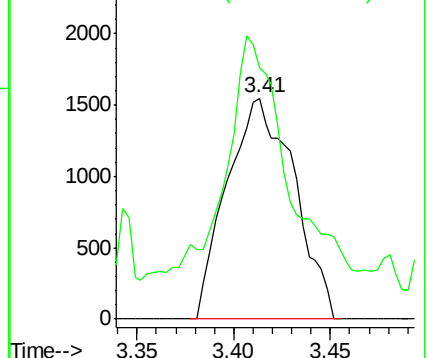
74 100

45 98.3 51.9 155.8



Abundance Ion 74.00 (73.70 to 74.70): VN0

Ion 45.00 (44.70 to 45.70): VN0



#13

Acrolein

Concen: 0.60 ug/l

RT: 3.60 min Scan# 625

Delta R.T. -0.01 min

Lab File: VN049502.D

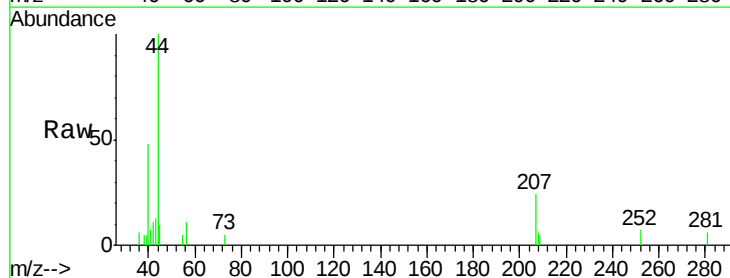
Acq: 22 Jun 2018 19:49

Tgt Ion: 56 Resp: 557

Ion Ratio Lower Upper

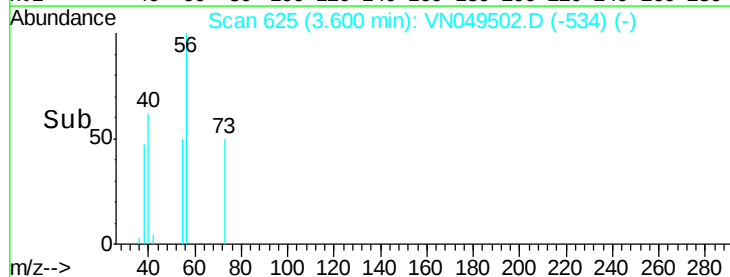
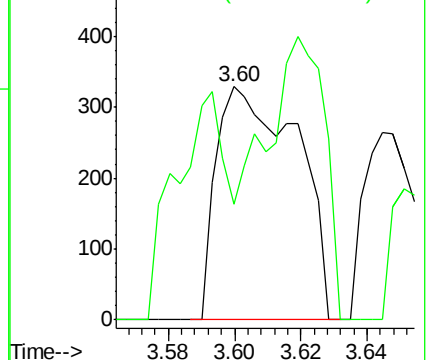
56 100

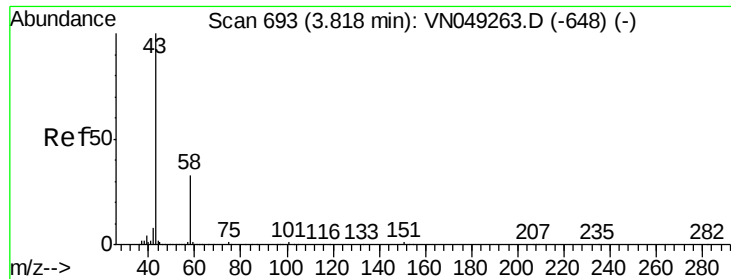
55 62.1 57.1 85.7



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0





#16

Acetone

Concen: 9.66 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN049502.D

Acq: 22 Jun 2018 19:49

Instrument :

MSVOA_N

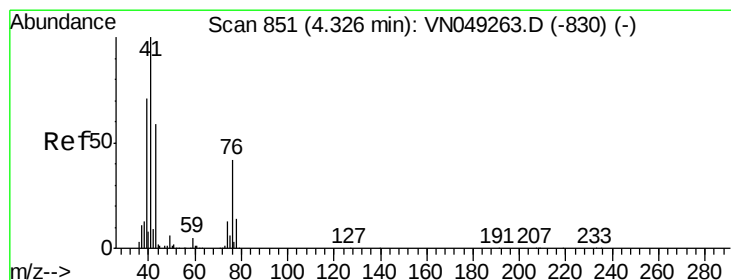
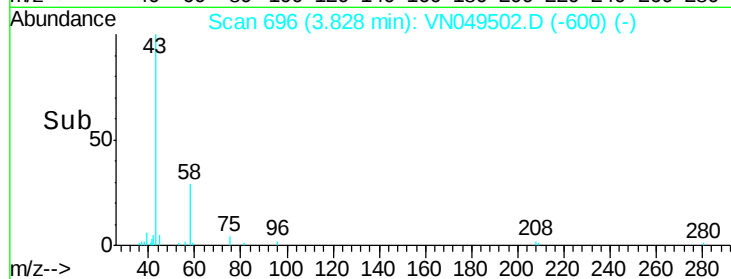
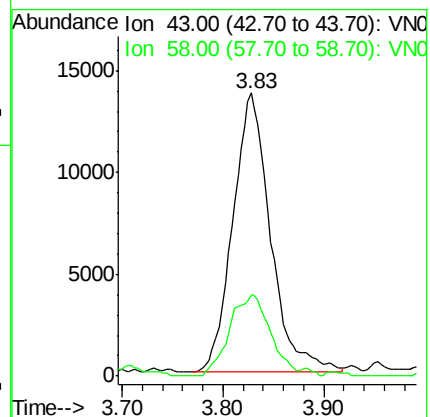
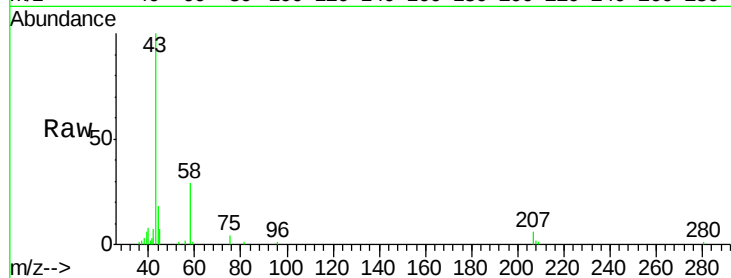
ClientSampled :

Tot Ion: 43 Resp: 35463

Ion Ratio Lower Upper

43 100

58 29.3 22.4 33.6



#18

Methyl Acetate

Concen: 7.56 ug/l

RT: 4.33 min Scan# 853

Delta R.T. 0.01 min

Lab File: VN049502.D

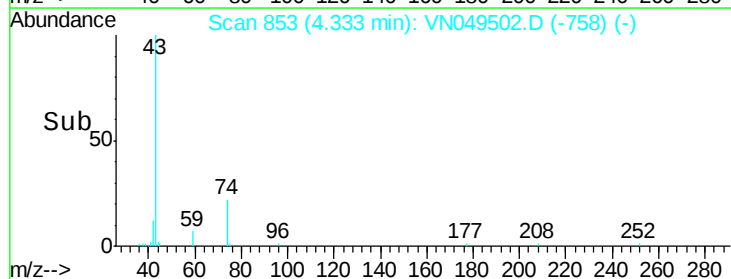
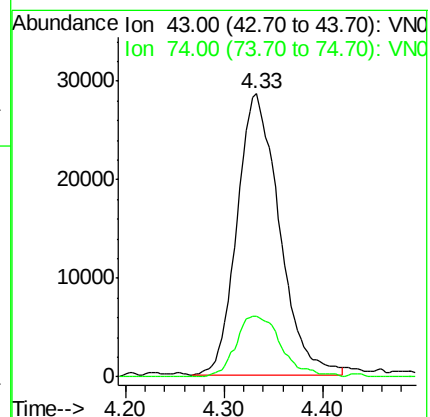
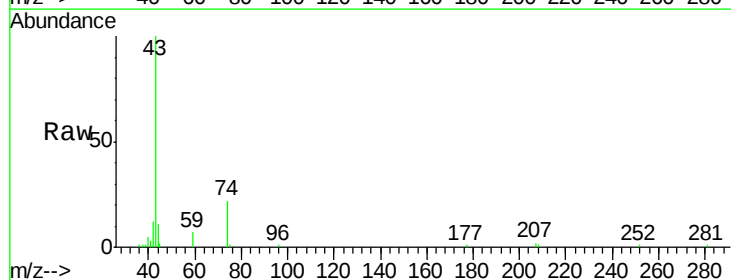
Acq: 22 Jun 2018 19:49

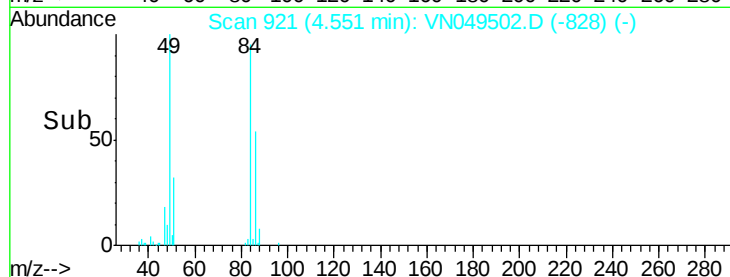
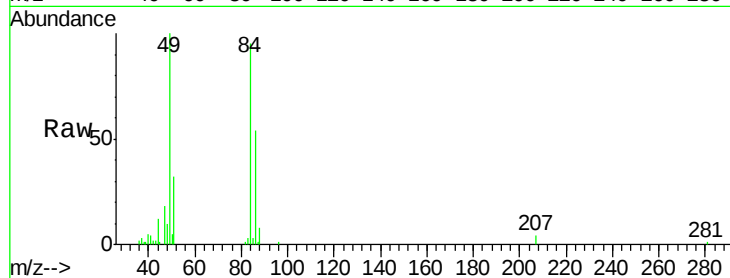
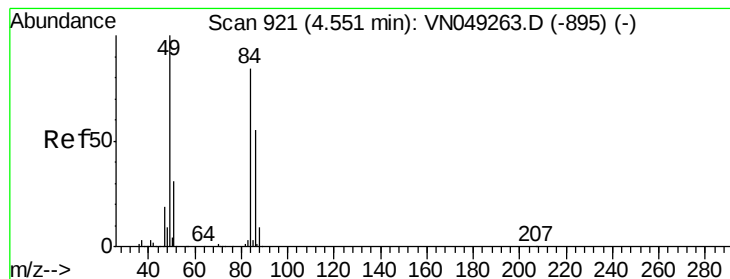
Tgt Ion: 43 Resp: 84604

Ion Ratio Lower Upper

43 100

74 23.0 17.4 26.0





#20

Methylene Chloride

Concen: 3.55 ug/l

RT: 4.55 min Scan# 921

Delta R.T. 0.00 min

Lab File: VN049502.D

Acq: 22 Jun 2018 19:49

Instrument :

MSVOA_N

ClientSampled :

Tot Ion: 84 Resp: 54415

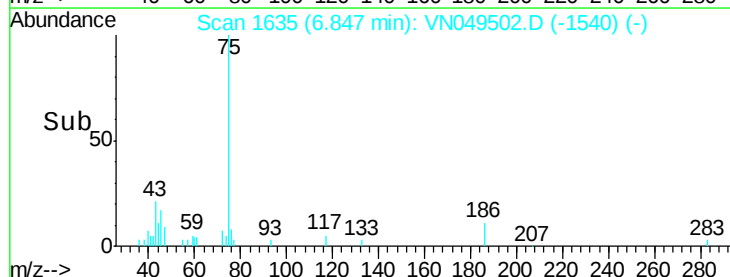
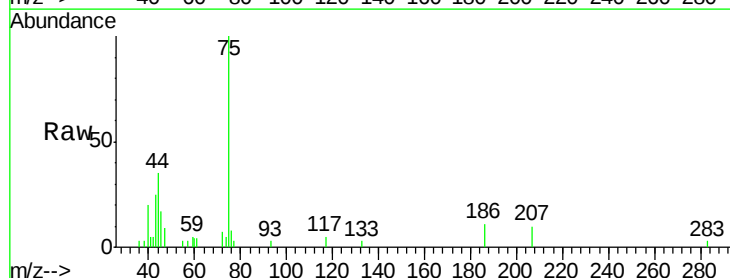
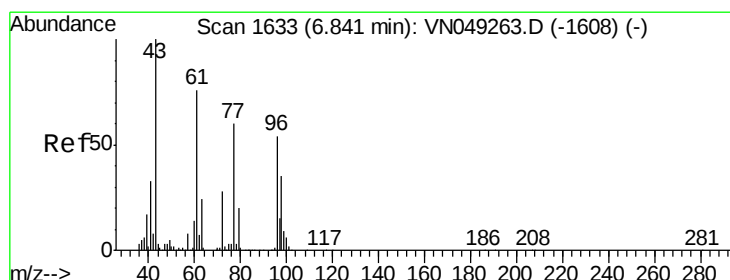
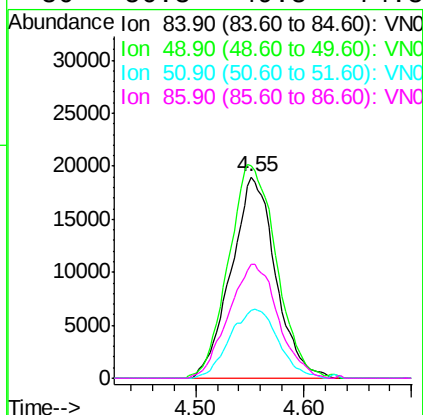
Ion Ratio Lower Upper

84 100

49 103.8 106.9 160.3#

51 33.4 32.7 49.1

86 56.3 49.8 74.8



#25

2-Butanone

Concen: 0.86 ug/l

RT: 6.85 min Scan# 1635

Delta R.T. 0.01 min

Lab File: VN049502.D

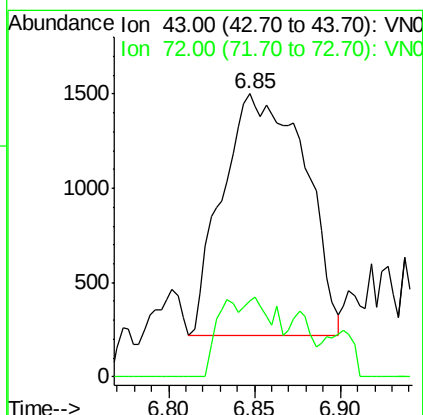
Acq: 22 Jun 2018 19:49

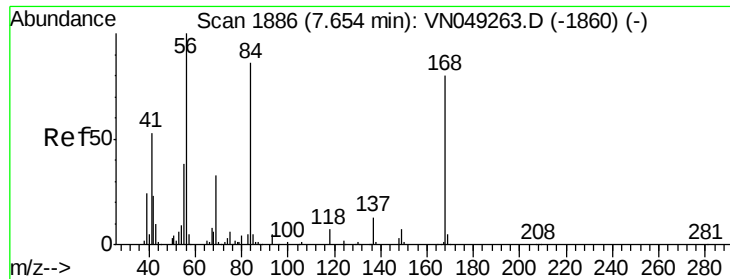
Tgt Ion: 43 Resp: 4245

Ion Ratio Lower Upper

43 100

72 31.3 20.2 30.2#

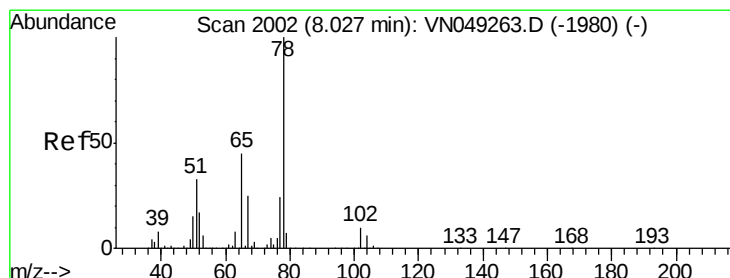
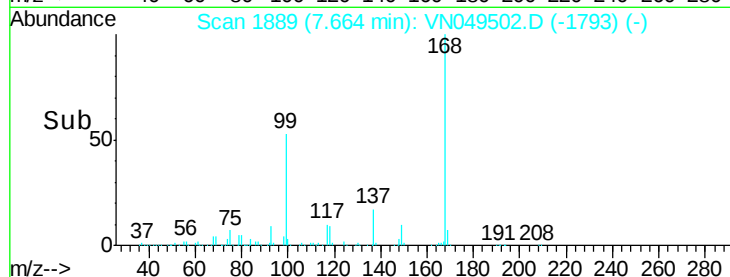
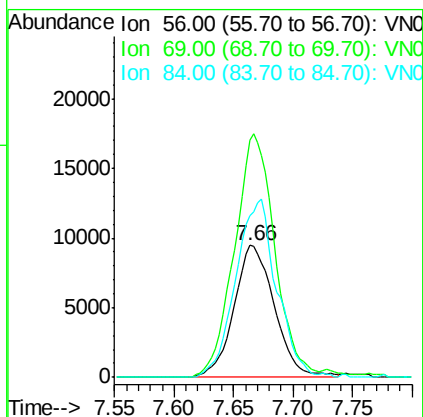
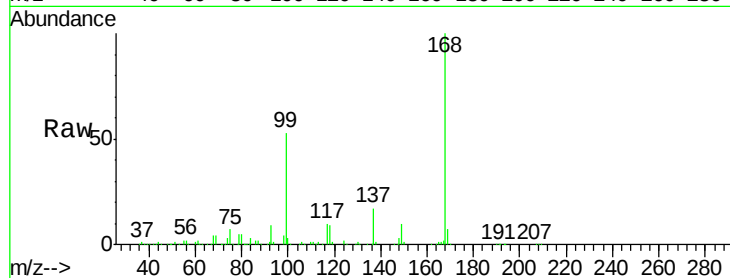




#31
Cyclohexane
Concen: 0.83 ug/l
RT: 7.66 min Scan# 1889
Delta R.T. 0.01 min
Lab File: VN049502.D
Acq: 22 Jun 2018 19:49

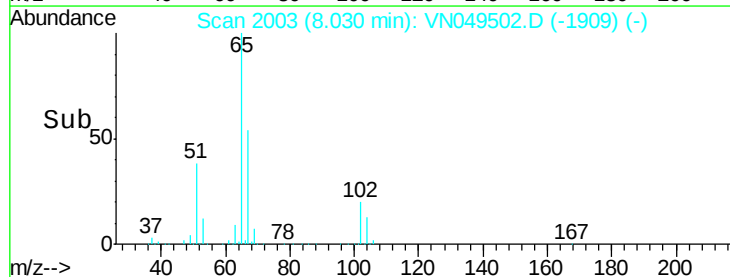
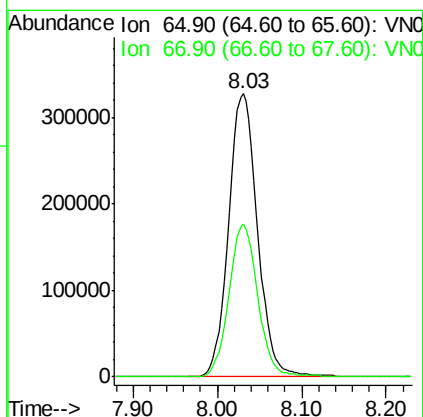
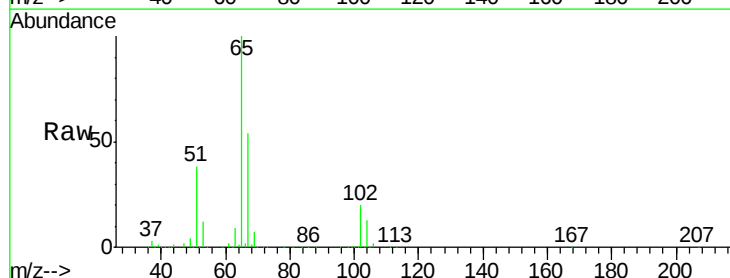
Instrument :
MSVOA_N
ClientSampled :

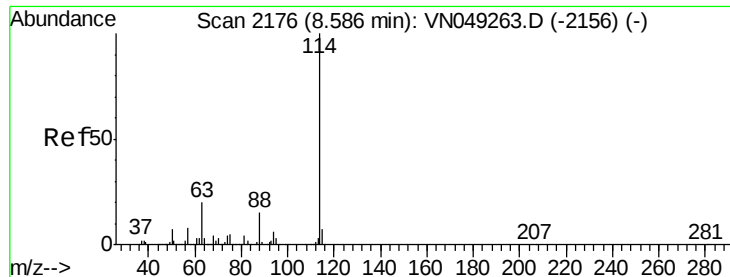
Tot Ion: 56 Resp: 22448
Ion Ratio Lower Upper
56 100
69 179.4 25.0 37.4#
84 122.5 64.6 96.8#



#33
1,2-Dichloroethane-d4
Concen: 51.66 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN049502.D
Acq: 22 Jun 2018 19:49

Tgt Ion: 65 Resp: 780741
Ion Ratio Lower Upper
65 100
67 53.9 0.0 103.8

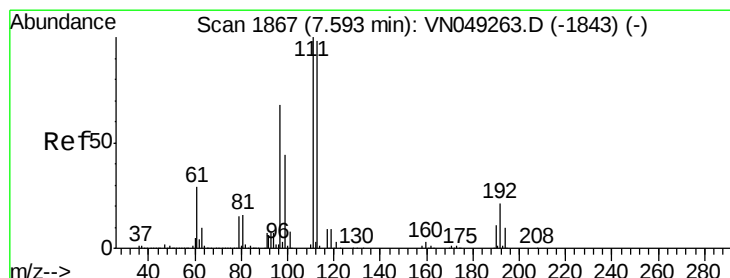
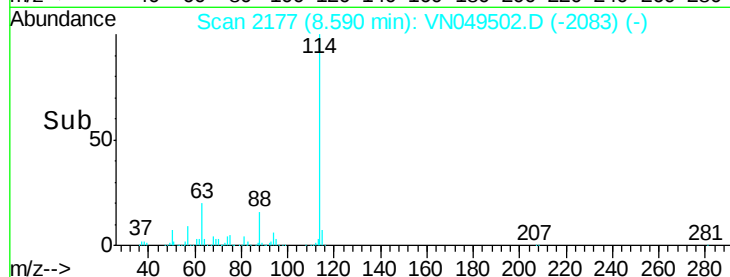
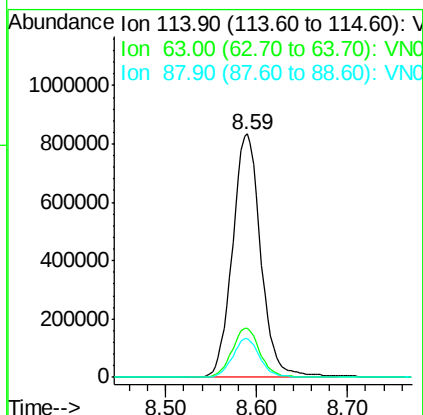
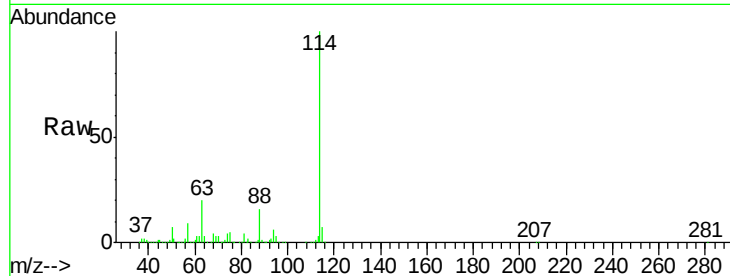




#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 8.59 min Scan# 2177
Delta R.T. 0.00 min
Lab File: VN049502.D
Acq: 22 Jun 2018 19:49

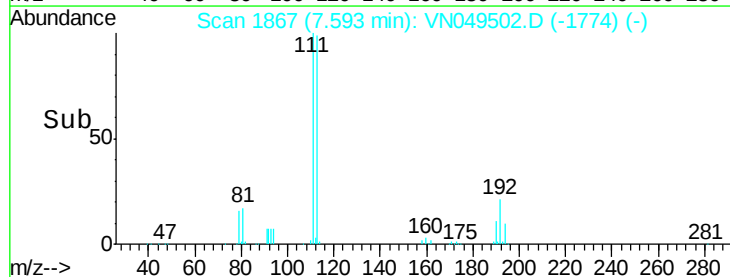
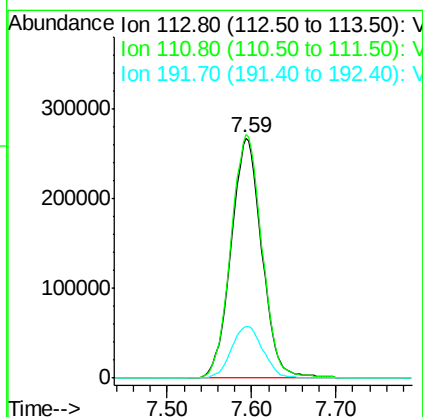
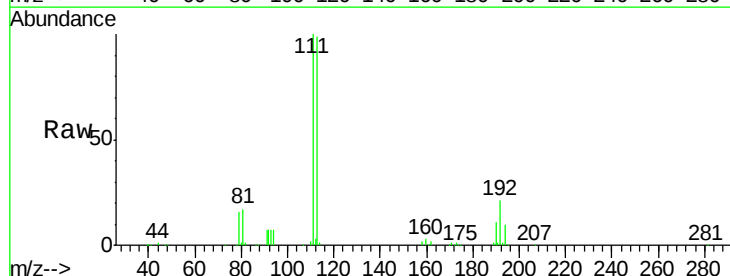
Instrument :
MSVOA_N
ClientSampled :

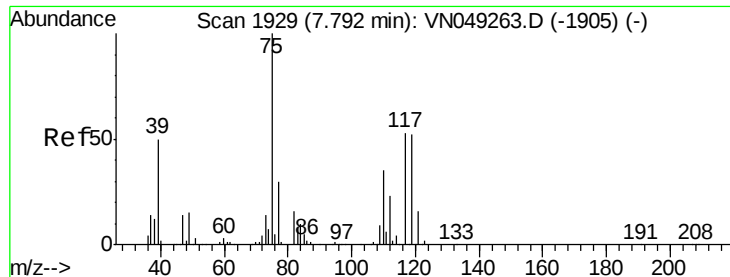
Tot Ion:114 Resp: 1803471
Ion Ratio Lower Upper
114 100
63 20.4 0.0 44.4
88 15.8 0.0 31.4



#35
Dibromofluoromethane
Concen: 46.63 ug/l
RT: 7.59 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN049502.D
Acq: 22 Jun 2018 19:49

Tgt Ion:113 Resp: 680323
Ion Ratio Lower Upper
113 100
111 102.9 82.4 123.6
192 22.0 15.0 22.6





#36

1,1-Dichloropropene

Concen: 3.92 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. -0.12 min

Lab File: VN049502.D

Acq: 22 Jun 2018 19:49

Instrument :
MSVOA_N
ClientSampleId :

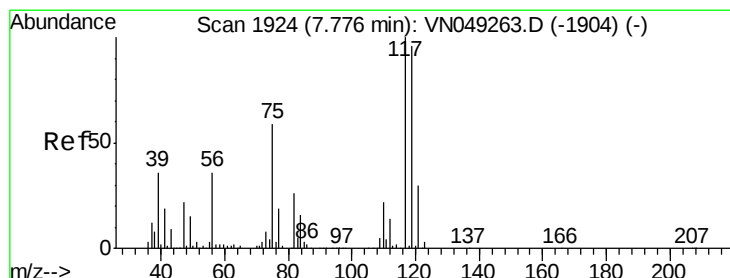
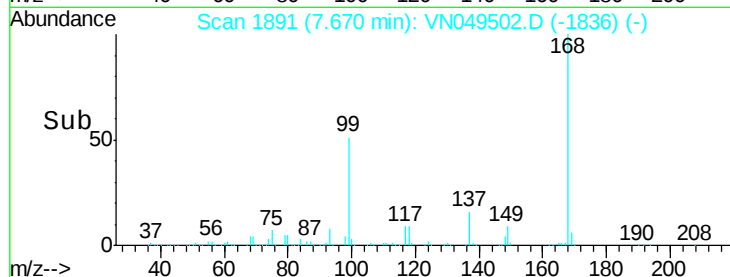
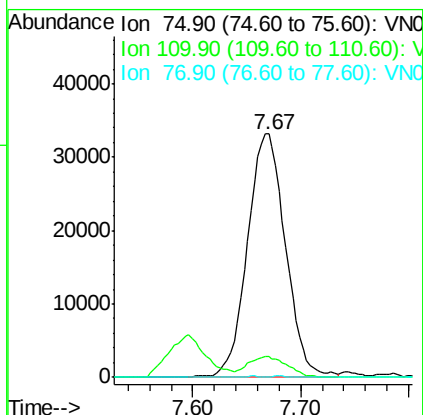
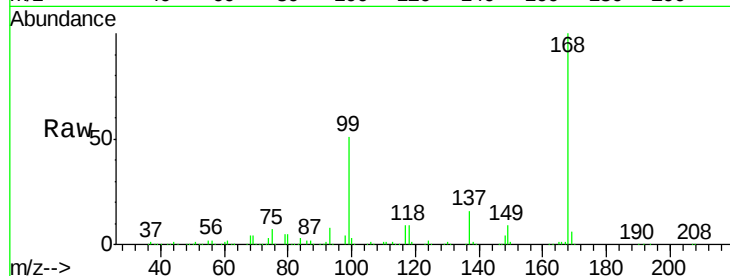
Tot Ion: 75 Resp: 81097

Ion Ratio Lower Upper

75 100

110 8.8 17.0 50.9#

77 0.2 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 4.84 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN049502.D

Acq: 22 Jun 2018 19:49

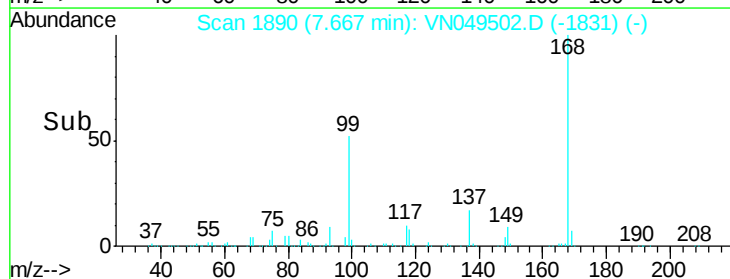
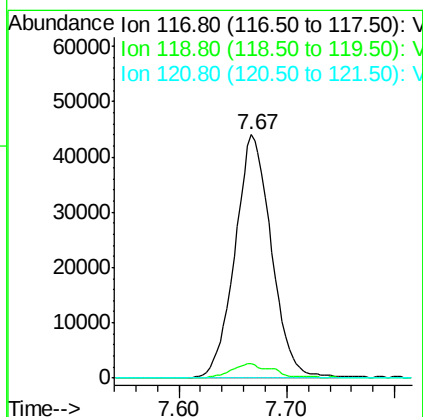
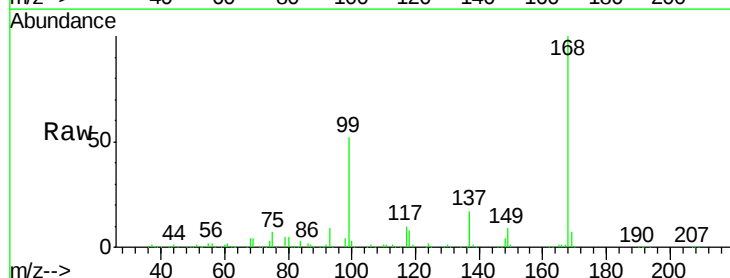
Tgt Ion: 117 Resp: 103468

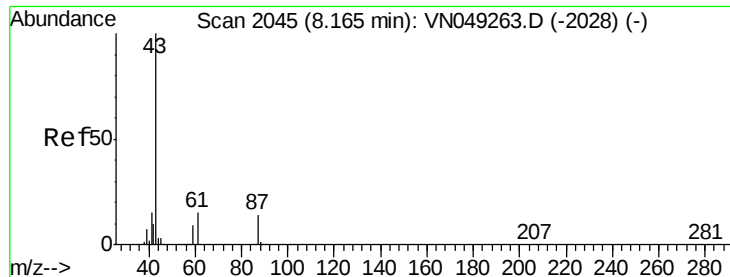
Ion Ratio Lower Upper

117 100

119 5.7 75.6 113.4#

121 0.0 24.7 37.1#





#43

Isopropyl Acetate

Concen: 11.36 ug/l

RT: 8.24 min Scan# 2069

Delta R.T. 0.08 min

Lab File: VN049502.D

Acq: 22 Jun 2018 19:49

Instrument :

MSVOA_N

ClientSampled :

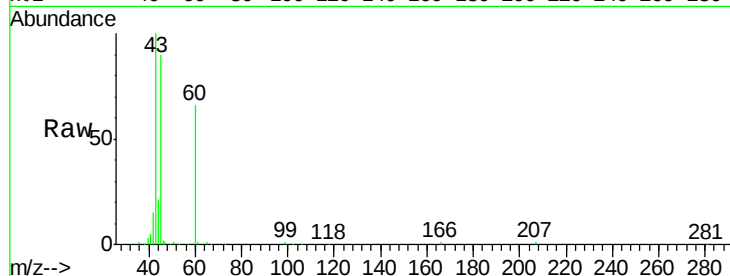
Tot Ion: 43 Resp: 243898

Ion Ratio Lower Upper

43 100

61 0.2 14.2 21.4#

87 0.0 9.4 14.0#

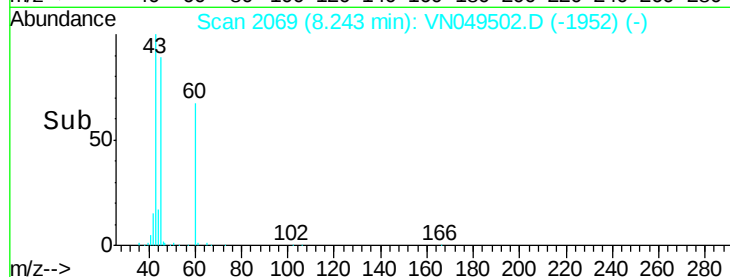


Abundance Ion 43.00 (42.70 to 43.70): VN049502.D (-2274) (-)

Ion 61.00 (60.70 to 61.70): VN049502.D (-2274) (-)

Ion 87.00 (86.70 to 87.70): VN049502.D (-2274) (-)

Time-->



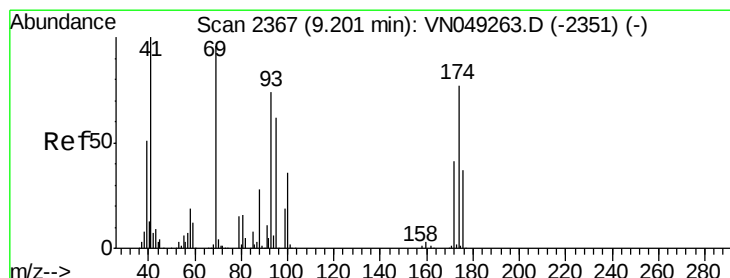
Abundance

Ion 43.00 (42.70 to 43.70): VN049502.D (-1952) (-)

Ion 61.00 (60.70 to 61.70): VN049502.D (-1952) (-)

Ion 87.00 (86.70 to 87.70): VN049502.D (-1952) (-)

Time-->



#49

1,4-Dioxane

Concen: 1.10 ug/l

RT: 9.23 min Scan# 2375

Delta R.T. 0.03 min

Lab File: VN049502.D

Acq: 22 Jun 2018 19:49

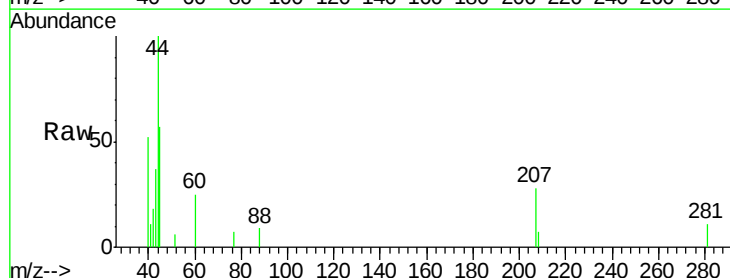
Tgt Ion: 88 Resp: 153

Ion Ratio Lower Upper

88 100

43 399.3 30.9 46.3#

58 0.0 58.9 88.3#

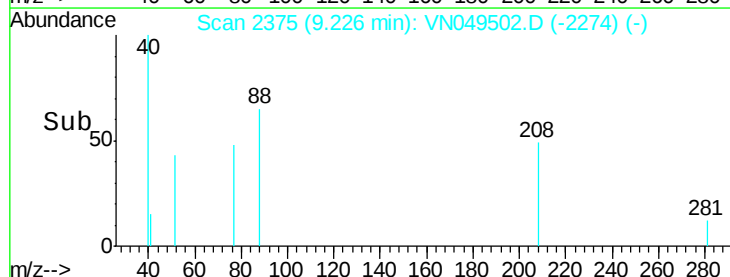


Abundance Ion 88.00 (87.70 to 88.70): VN049502.D (-2274) (-)

Ion 43.00 (42.70 to 43.70): VN049502.D (-2274) (-)

Ion 58.00 (57.70 to 58.70): VN049502.D (-2274) (-)

Time-->



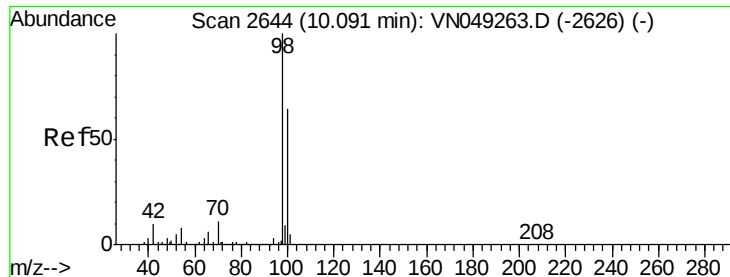
Abundance

Ion 88.00 (87.70 to 88.70): VN049502.D (-2274) (-)

Ion 43.00 (42.70 to 43.70): VN049502.D (-2274) (-)

Ion 58.00 (57.70 to 58.70): VN049502.D (-2274) (-)

Time-->



#50

Toluene-d8

Concen: 44.83 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN049502.D

Acq: 22 Jun 2018 19:49

Instrument :

MSVOA_N

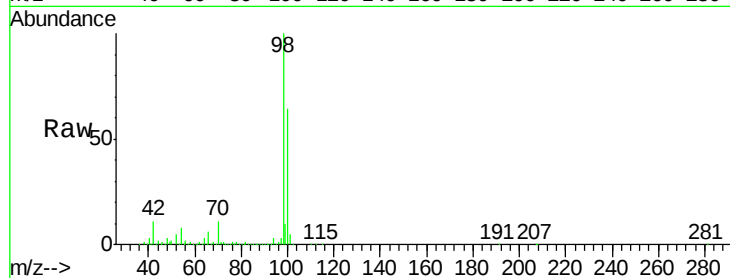
ClientSampled :

Tot Ion: 98 Resp: 2490671

Ion Ratio Lower Upper

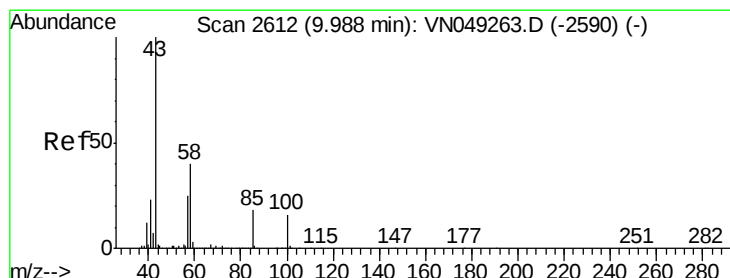
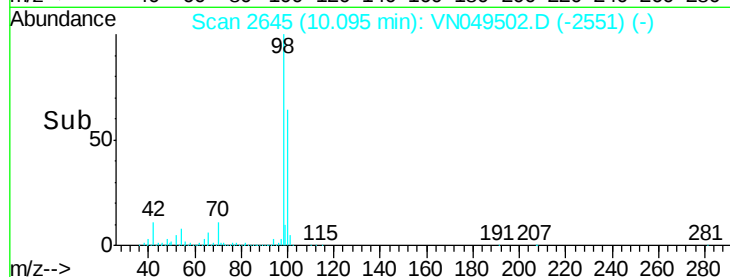
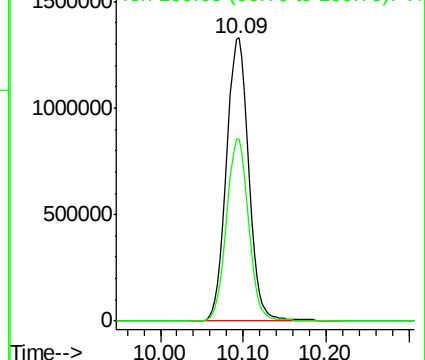
98 100

100 63.9 49.8 74.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#51

4-Methyl-2-Pentanone

Concen: 0.38 ug/l

RT: 9.99 min Scan# 2612

Delta R.T. 0.00 min

Lab File: VN049502.D

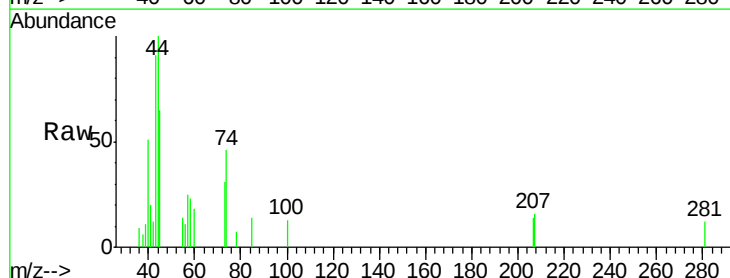
Acq: 22 Jun 2018 19:49

Tgt Ion: 43 Resp: 4316

Ion Ratio Lower Upper

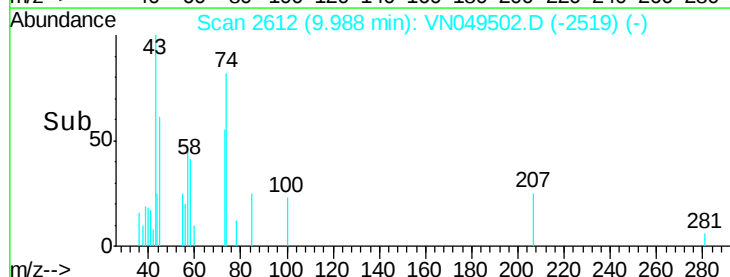
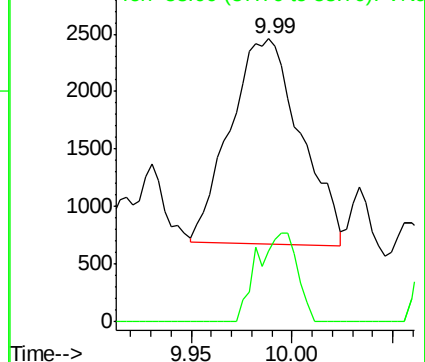
43 100

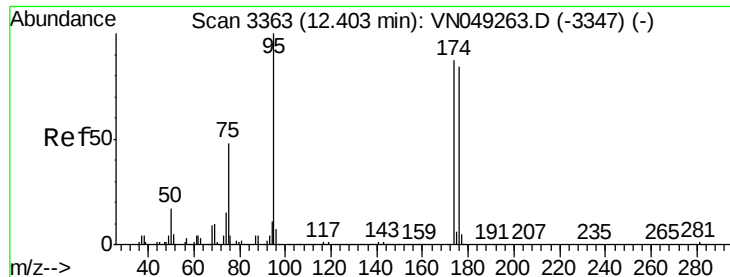
58 24.9 29.0 43.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 32.31 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN049502.D

Acq: 22 Jun 2018 19:49

Instrument :

MSVOA_N

ClientSampled :

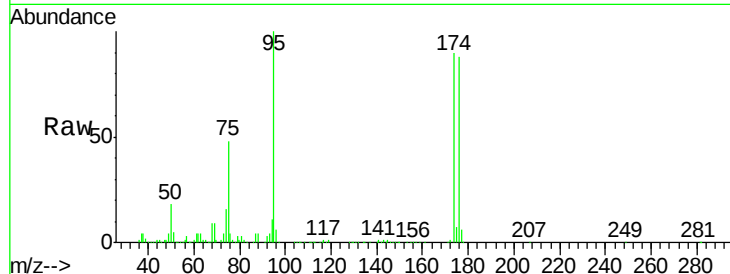
Tot Ion: 95 Resp: 593491

Ion Ratio Lower Upper

95 100

174 90.4 0.0 165.6

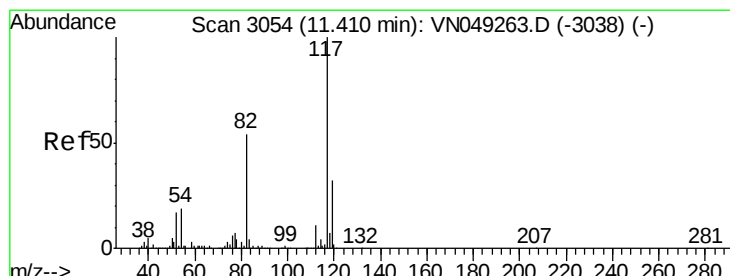
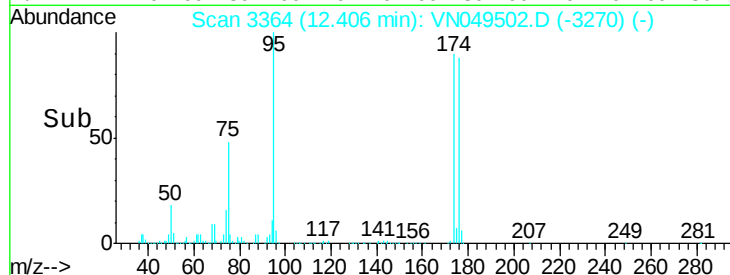
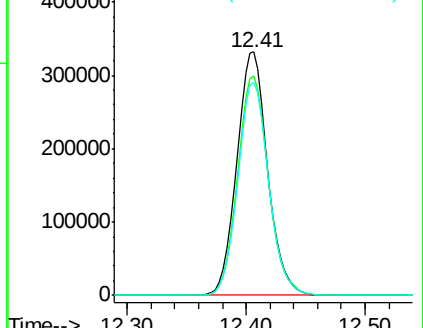
176 87.6 0.0 157.4



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN049502.D

Acq: 22 Jun 2018 19:49

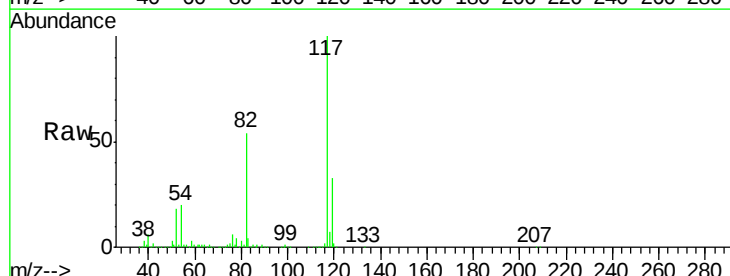
Tgt Ion: 117 Resp: 1516602

Ion Ratio Lower Upper

117 100

82 54.1 45.9 68.9

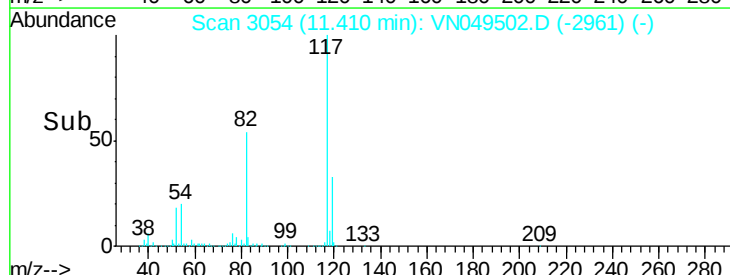
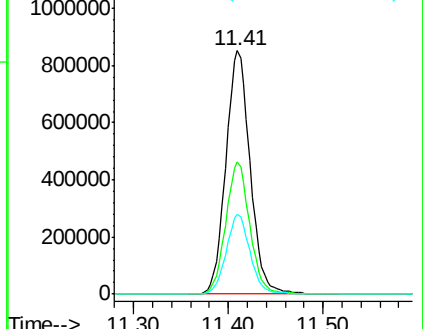
119 32.7 25.5 38.3

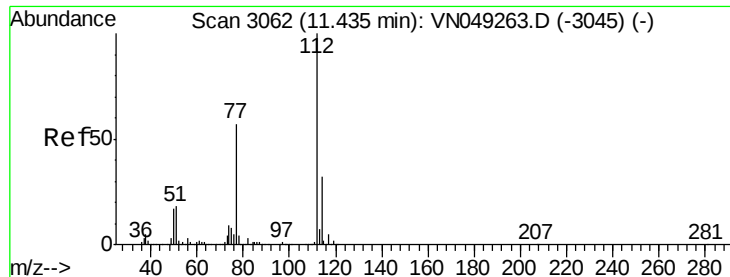


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0

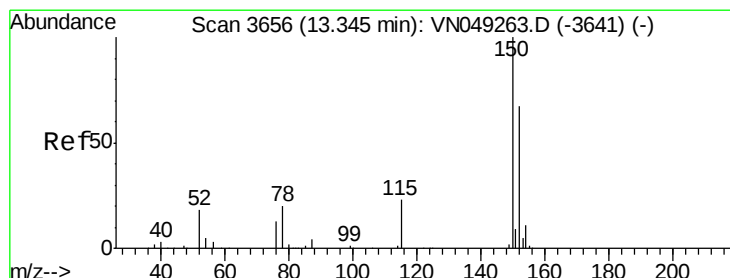
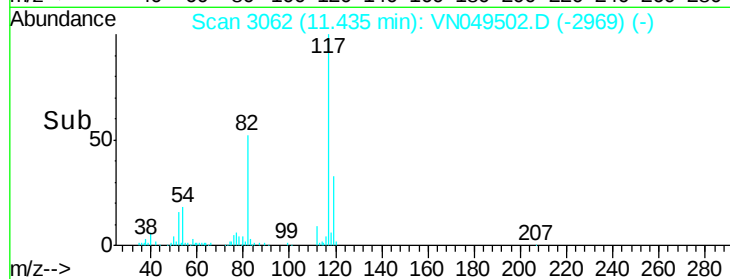
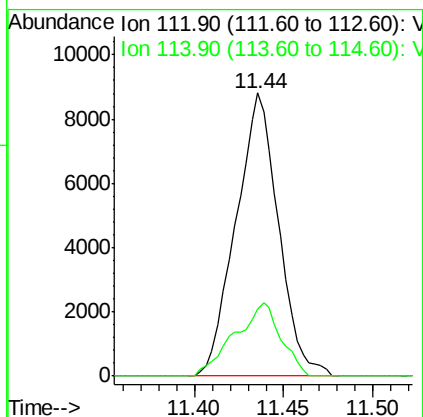
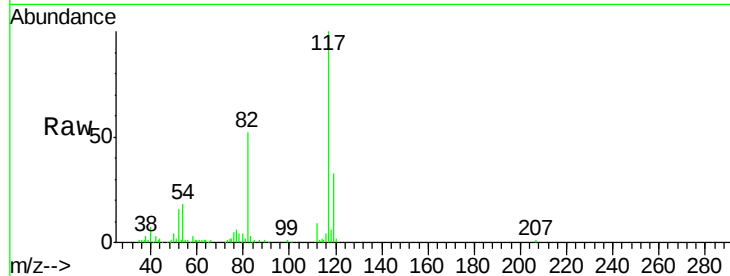




#65
Chlorobenzene
Concen: 0.38 ug/l
RT: 11.44 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN049502.D
Acq: 22 Jun 2018 19:49

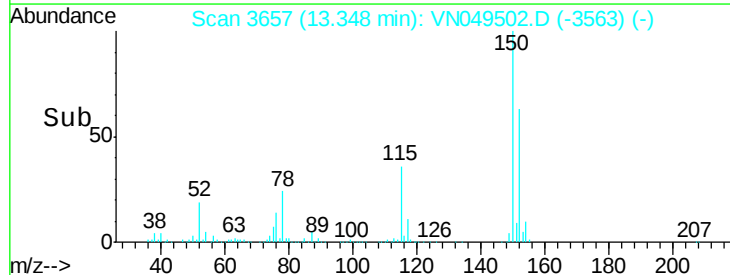
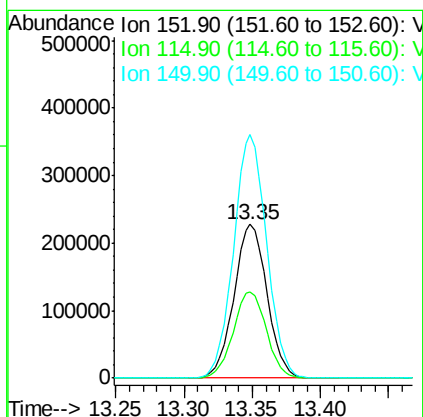
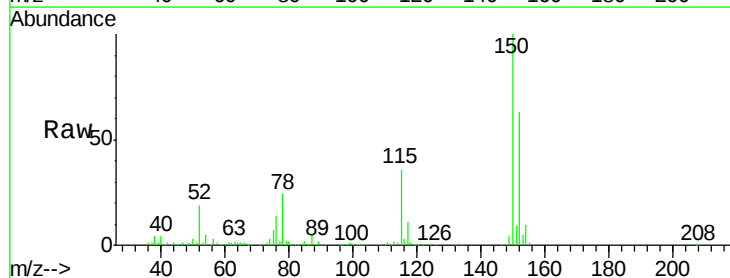
Instrument :
MSVOA_N
ClientSampled :

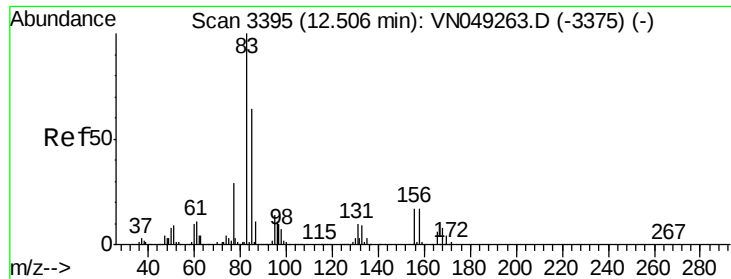
Tot Ion:112 Resp: 14688
Ion Ratio Lower Upper
112 100
114 23.9 26.2 39.4#



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3657
Delta R.T. 0.00 min
Lab File: VN049502.D
Acq: 22 Jun 2018 19:49

Tgt Ion:152 Resp: 381780
Ion Ratio Lower Upper
152 100
115 56.3 28.7 86.1
150 158.4 0.0 351.0





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.44 min Scan# 3376

Delta R.T. -0.06 min

Lab File: VN049502.D

Acq: 22 Jun 2018 19:49

Instrument :

MSVOA_N

ClientSampleId :

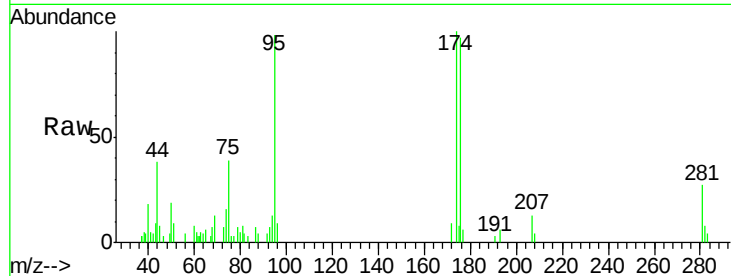
Tot Ion: 83 Resp: 68

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

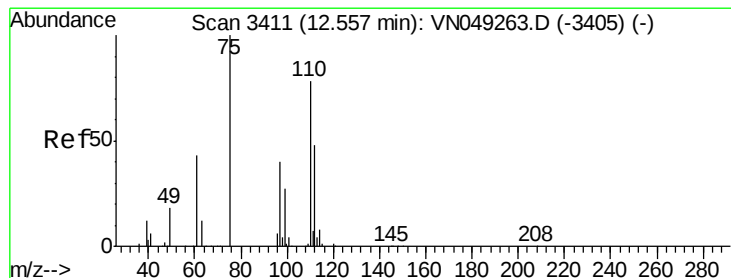
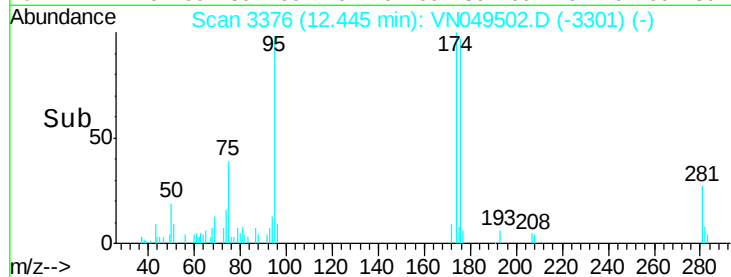
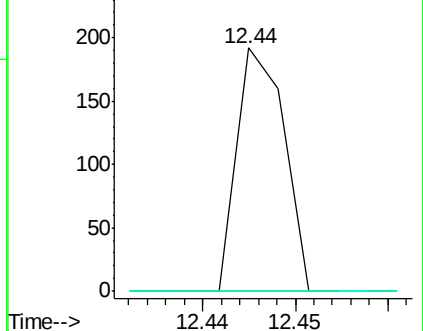
85 0.0 32.0 96.0#



Abundance Ion 82.90 (82.60 to 83.60): VN049502.D (-3375) (-)

Ion 130.80 (130.50 to 131.50): VN049502.D (-3375) (-)

Ion 84.90 (84.60 to 85.60): VN049502.D (-3375) (-)



#76

1,2,3-Trichloropropane

Concen: 45.03 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049502.D

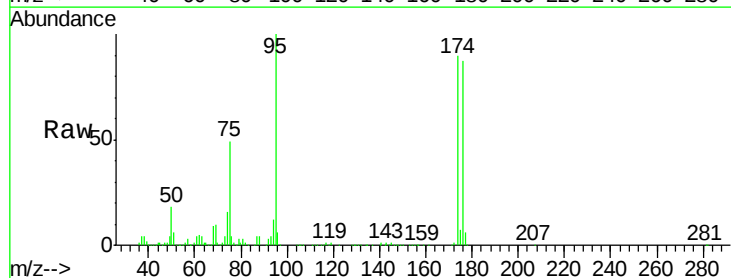
Acq: 22 Jun 2018 19:49

Tgt Ion: 75 Resp: 293336

Ion Ratio Lower Upper

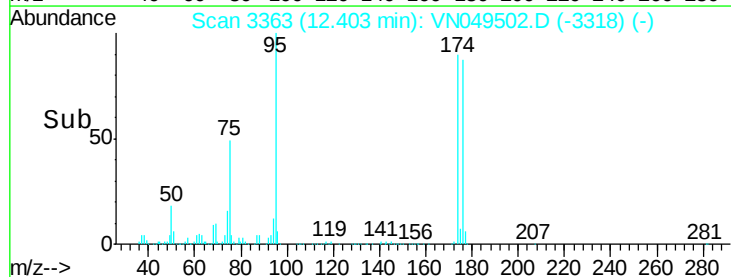
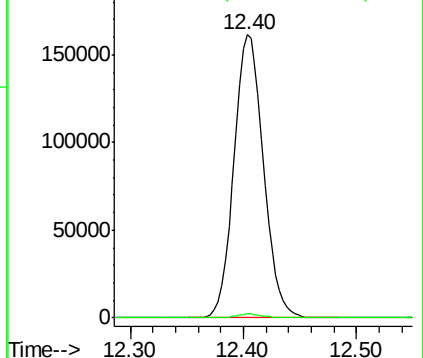
75 100

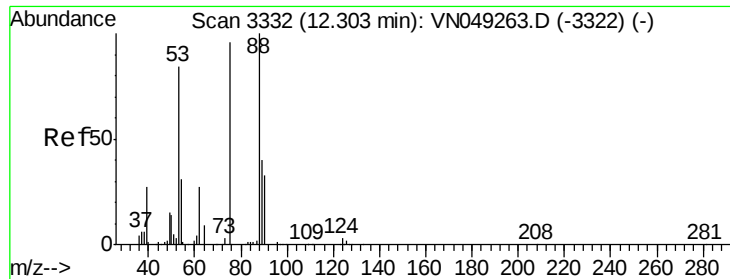
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN049502.D (-3363) (-)

Ion 77.00 (76.70 to 77.70): VN049502.D (-3363) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 142.32 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049502.D

Acq: 22 Jun 2018 19:49

Instrument :

MSVOA_N

ClientSampled :

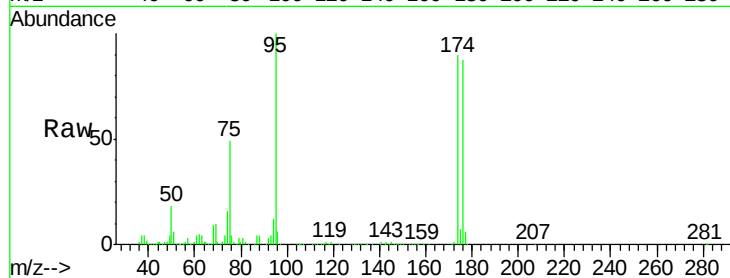
Tot Ion: 75 Resp: 293336

Ion Ratio Lower Upper

75 100

53 0.3 82.7 124.1#

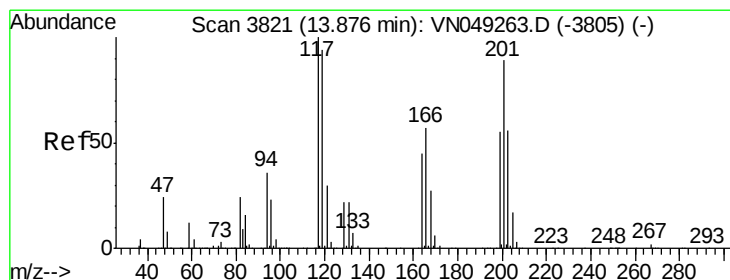
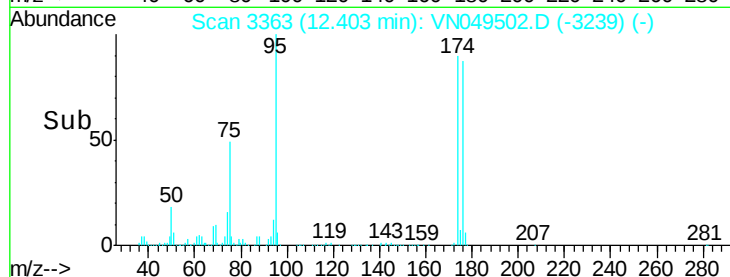
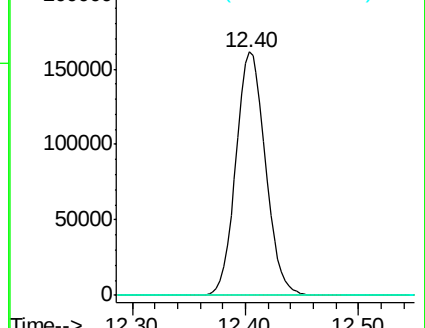
89 0.0 36.5 54.7#



Abundance Ion 74.90 (74.60 to 75.60): VN049502.D (-3363) (-)

Ion 53.00 (52.70 to 53.70): VN049502.D (-3363) (-)

Ion 88.90 (88.60 to 89.60): VN049502.D (-3363) (-)



#90

Hexachloroethane

Concen: Below Cal

RT: 13.87 min Scan# 3820

Delta R.T. -0.00 min

Lab File: VN049502.D

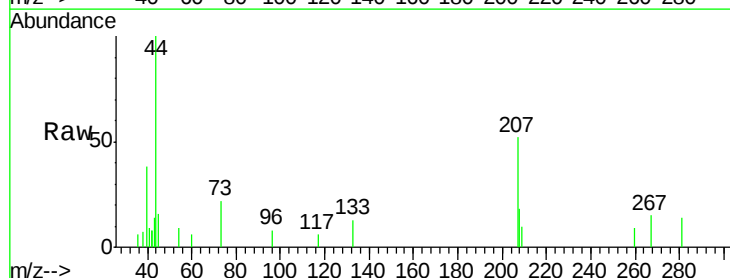
Acq: 22 Jun 2018 19:49

Tgt Ion: 117 Resp: 34

Ion Ratio Lower Upper

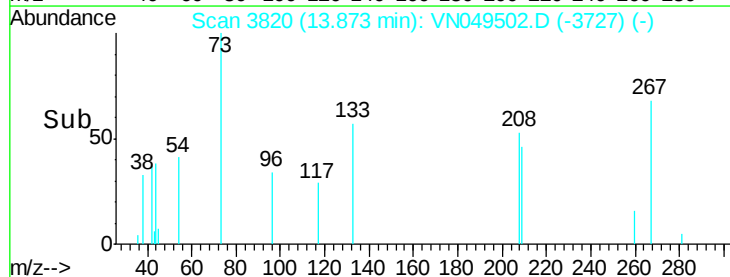
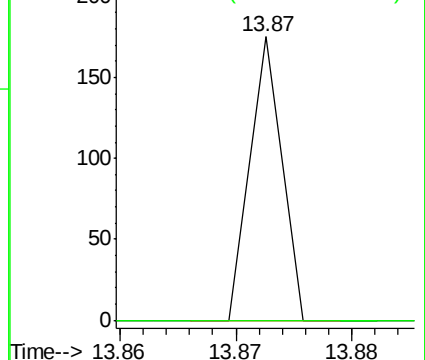
117 100

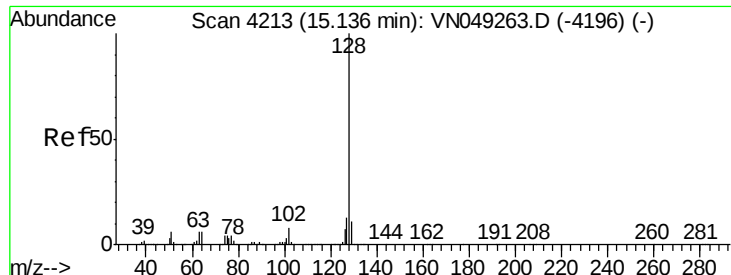
201 0.0 40.1 120.2#



Abundance Ion 116.80 (116.50 to 117.50): VN049502.D (-3821) (-)

Ion 200.70 (200.40 to 201.40): VN049502.D (-3821) (-)





#95
 Naphthalene
 Concen: 2.09 ug/l
 RT: 15.13 min Scan# 4211
 Delta R.T. -0.01 min
 Lab File: VN049502.D
 Acq: 22 Jun 2018 19:49

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.6	16.0#
129	0.0	8.5	12.7#

