

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101118\
 Data File : VN051818.D
 Acq On : 11 Oct 2018 17:55
 Operator : MD\SY
 Sample : PB113748TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 12 06:50:18 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101118W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 11 13:17:04 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1103732	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1526964	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1266067	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	430218	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	503031	47.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.36%	
35) Dibromofluoromethane	7.59	113	466197	49.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.20%	
50) Toluene-d8	10.09	98	1828712	51.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.38%	
62) 4-Bromofluorobenzene	12.40	95	496716	40.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	81.34%	

Target Compounds

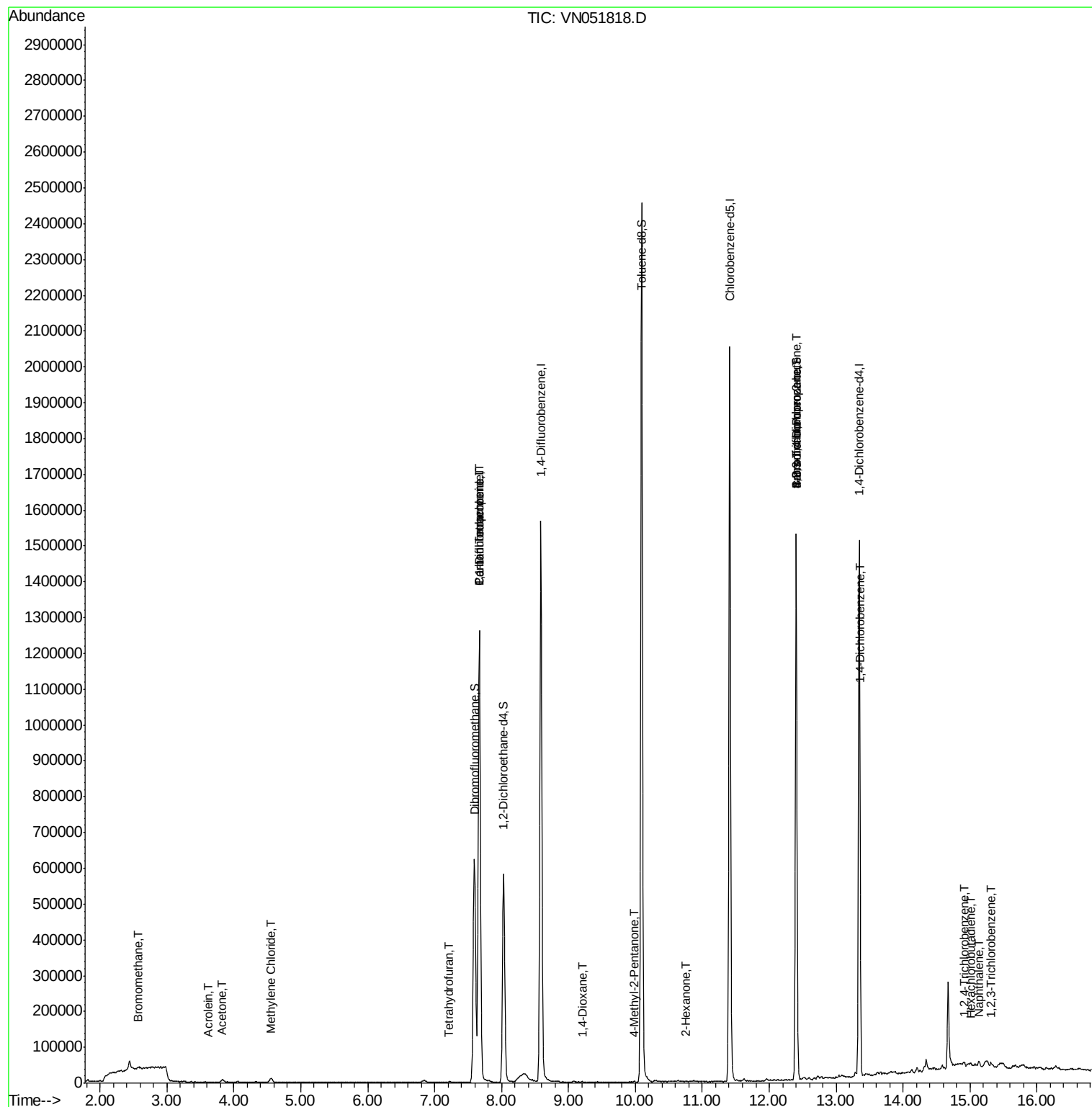
					Qvalue	
5) Bromomethane	2.56	94	2897	0.288	ug/l	89
13) Acrolein	3.61	56	192	16.166	ug/l #	14
16) Acetone	3.83	43	6942	3.051	ug/l	98
20) Methylene Chloride	4.54	84	9534	1.013	ug/l #	79
29) Tetrahydrofuran	7.21	42	458	0.239	ug/l #	61
31) Cyclohexane	7.67	56	19827	Below Cal	#	1
36) 1,1-Dichloropropene	7.67	75	70852	5.732	ug/l #	51
38) Carbon Tetrachloride	7.67	117	97725	6.820	ug/l #	15
49) 1,4-Dioxane	9.20	88	30	47.462	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	1904	0.289	ug/l #	73
59) 2-Hexanone	10.76	43	1759	0.380	ug/l	80
71) Bromoform	12.41	173	3957	4.057	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	253803	47.796	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	253803	135.851	ug/l #	15
88) 1,4-Dichlorobenzene	13.36	146	2758	0.201	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.91	180	3548	4.110	ug/l #	85
94) Hexachlorobutadiene	15.01	225	978	0.221	ug/l	88
95) Naphthalene	15.13	128	12133	5.094	ug/l #	91
96) 1,2,3-Trichlorobenzene	15.32	180	4975	3.527	ug/l #	85

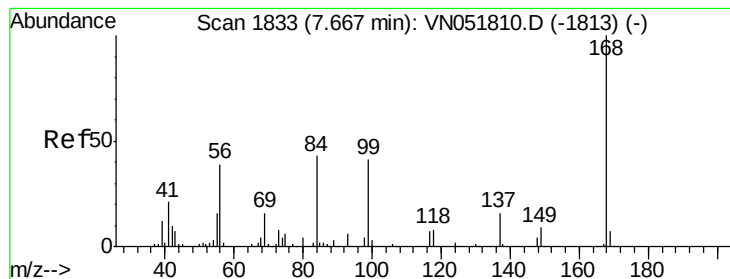
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N101118W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 11 13:17:04 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN051818.D

Acq: 11 Oct 2018 17:55

Instrument :

MSVOA_N

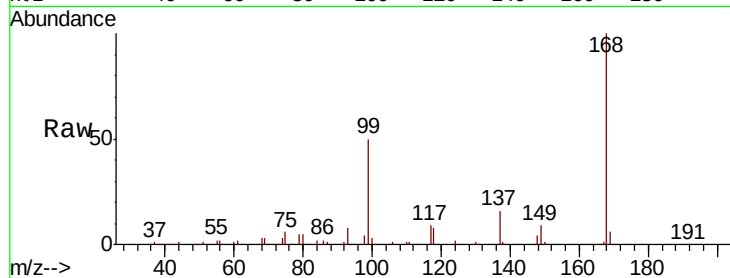
ClientSampleId :

Tot Ion:168 Resp: 1103732

Ion Ratio Lower Upper

168 100

99 49.9 39.6 59.4



Abundance Ion 167.90 (167.60 to 168.60): VN051818.D (-1679) (-)

Ion 98.90 (98.60 to 99.60): VN051818.D (-989) (-)

7.67

500000

400000

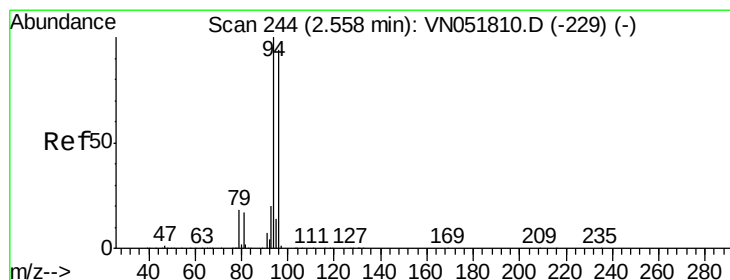
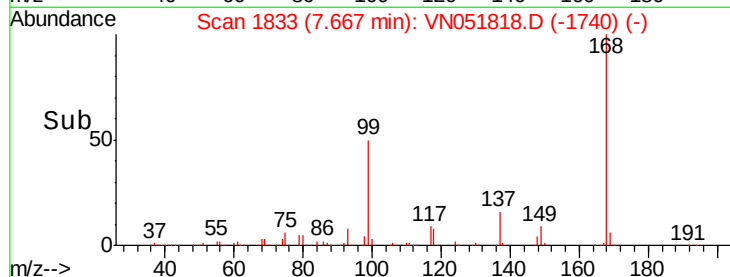
300000

200000

100000

0

Time-->



#5

Bromomethane

Concen: 0.288 ug/l

RT: 2.56 min Scan# 245

Delta R.T. 0.00 min

Lab File: VN051818.D

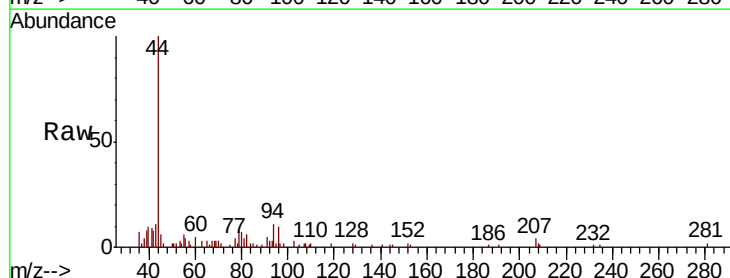
Acq: 11 Oct 2018 17:55

Tgt Ion: 94 Resp: 2897

Ion Ratio Lower Upper

94 100

96 84.0 76.2 114.2



Abundance Ion 93.90 (93.60 to 94.60): VN051818.D (-939) (-)

Ion 95.90 (95.60 to 96.60): VN051818.D (-959) (-)

2.56

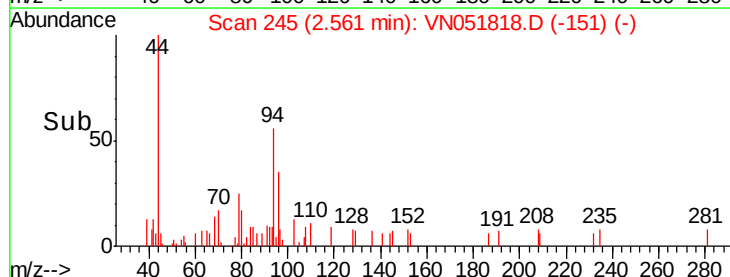
1500

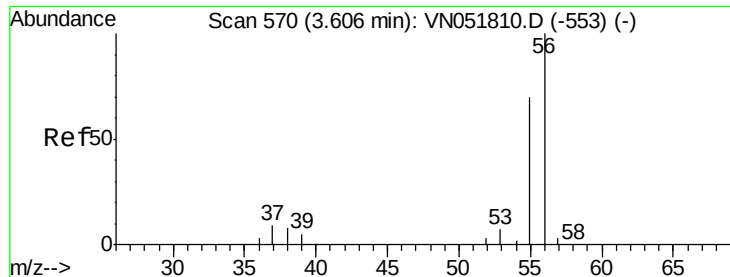
1000

500

0

Time-->





#13

Acrolein

Concen: 16.166 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN051818.D

Acq: 11 Oct 2018 17:55

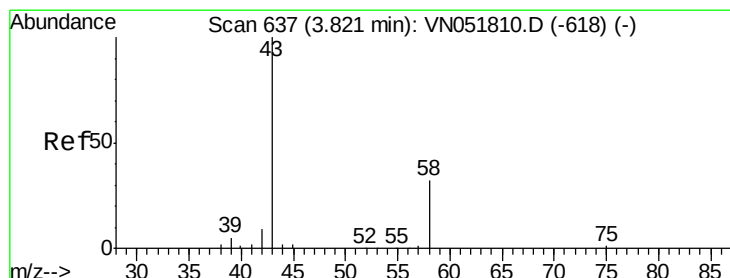
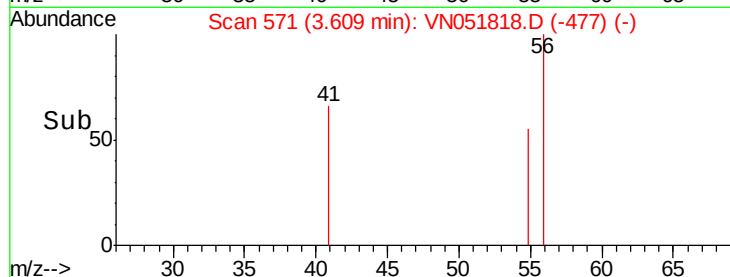
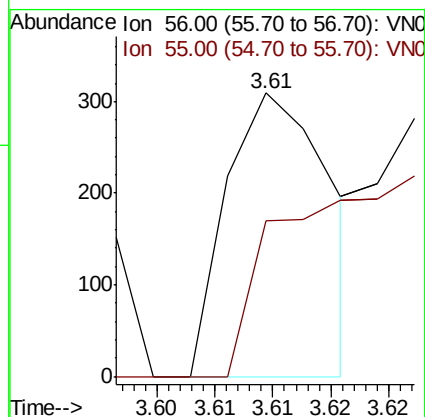
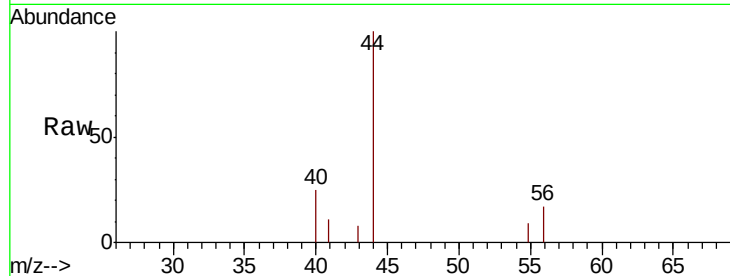
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 192

Ion Ratio Lower Upper

56 100

55 0.0 57.7 86.5#



#16

Acetone

Concen: 3.051 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN051818.D

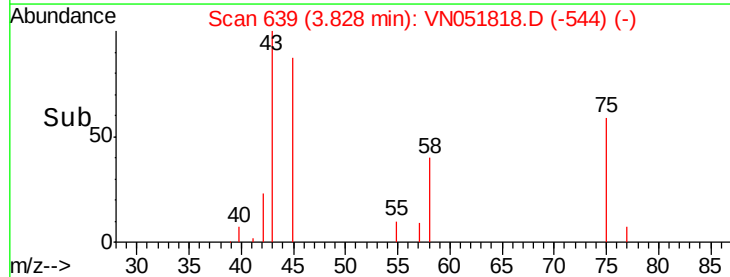
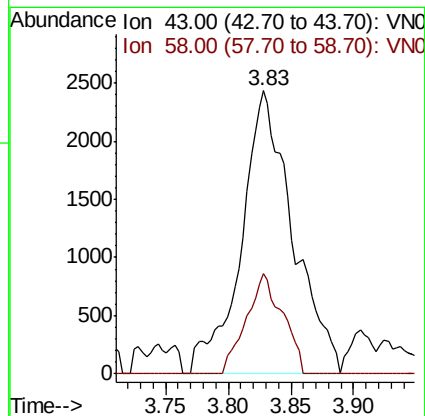
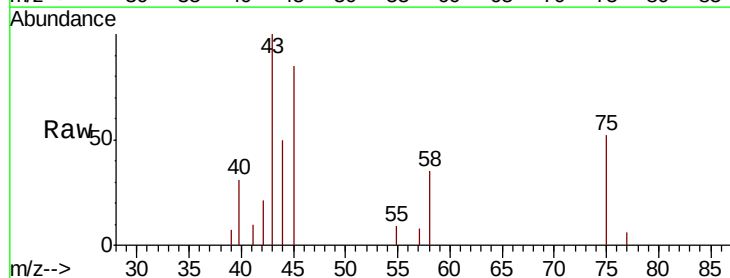
Acq: 11 Oct 2018 17:55

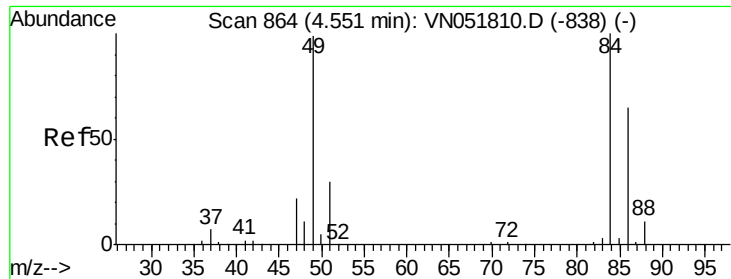
Tgt Ion: 43 Resp: 6942

Ion Ratio Lower Upper

43 100

58 35.4 27.2 40.8





#20

Methylene Chloride

Concen: 1.013 ug/l

RT: 4.54 min Scan# 862

Delta R.T. -0.01 min

Lab File: VN051818.D

Acq: 11 Oct 2018 17:55

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 84 Resp: 9534

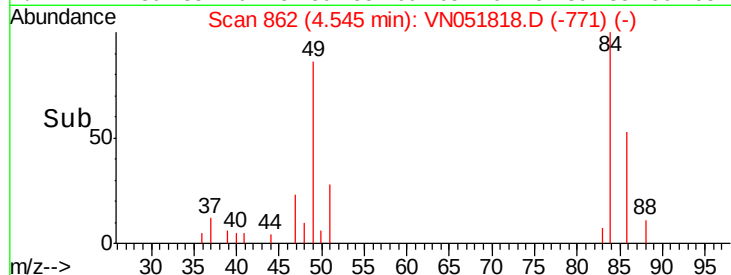
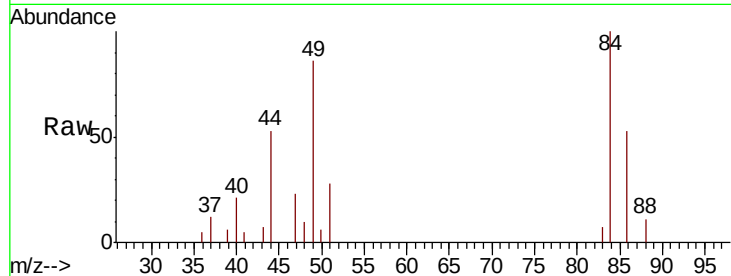
Ion Ratio Lower Upper

84 100

49 86.2 93.2 139.8#

51 28.2 29.0 43.6#

86 53.3 49.8 74.8

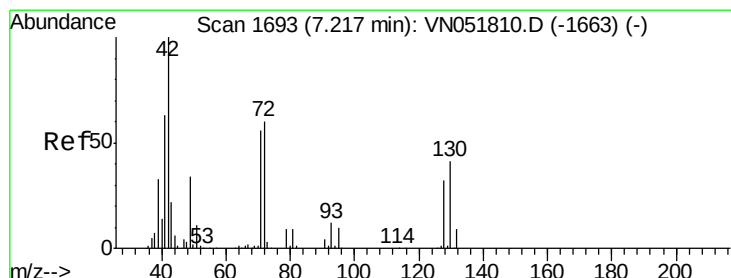
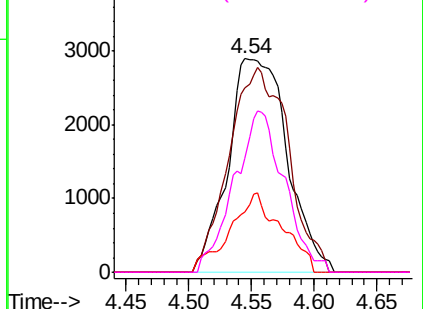


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#29

Tetrahydrofuran

Concen: 0.239 ug/l

RT: 7.21 min Scan# 1692

Delta R.T. -0.00 min

Lab File: VN051818.D

Acq: 11 Oct 2018 17:55

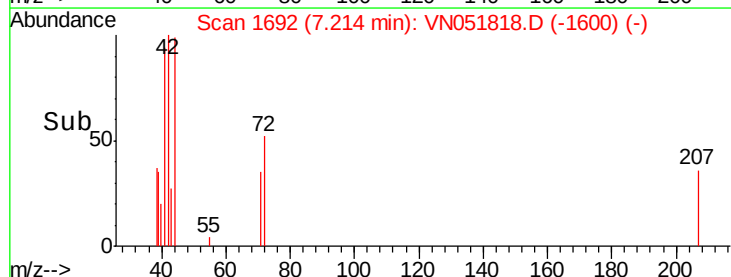
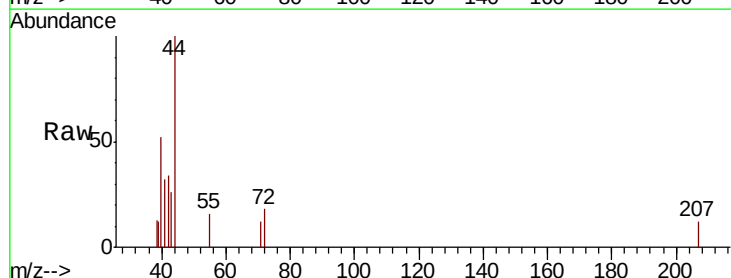
Tgt Ion: 42 Resp: 458

Ion Ratio Lower Upper

42 100

72 90.0 35.5 53.3#

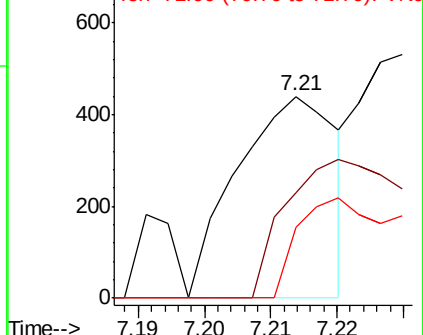
71 38.6 33.7 50.5

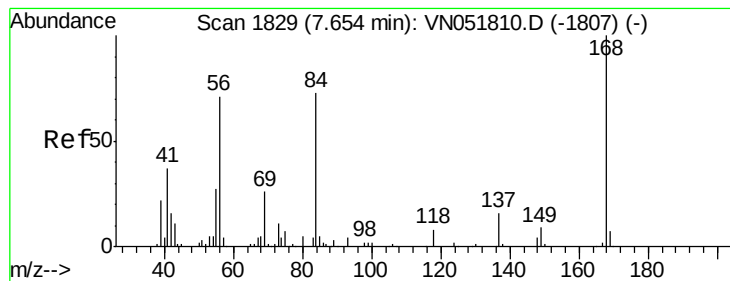


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0





#31

Cyclohexane

Concen: Below Cal

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN051818.D

Acq: 11 Oct 2018 17:55

Instrument :
MSVOA_N
ClientSampled :

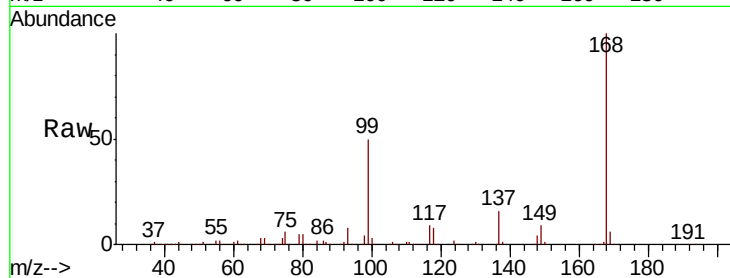
Tot Ion: 56 Resp: 19827

Ion Ratio Lower Upper

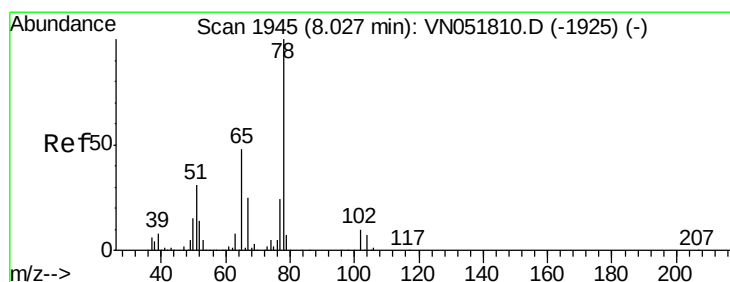
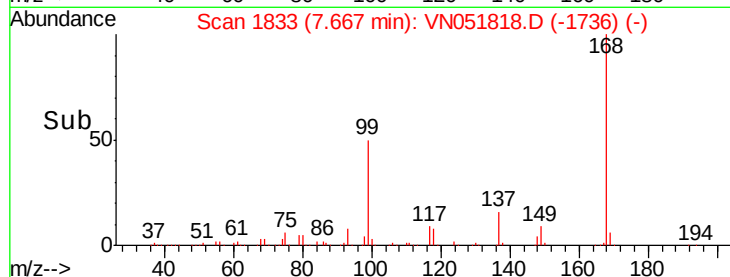
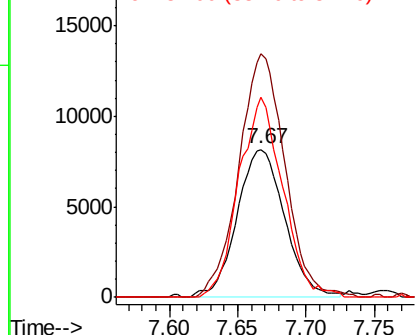
56 100

69 164.3 26.2 39.4#

84 134.6 68.3 102.5#



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: Below ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051818.D

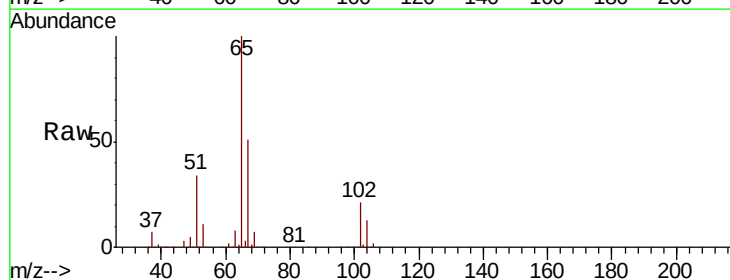
Acq: 11 Oct 2018 17:55

Tgt Ion: 65 Resp: 503031

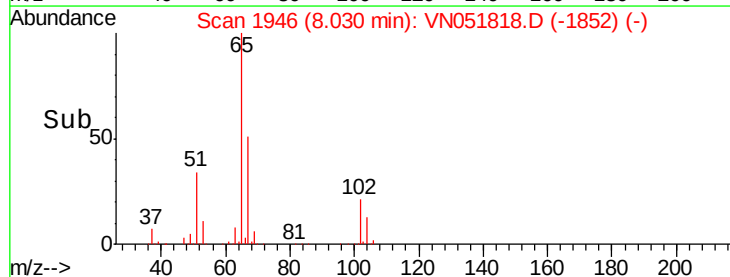
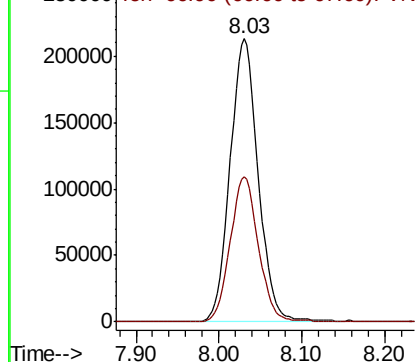
Ion Ratio Lower Upper

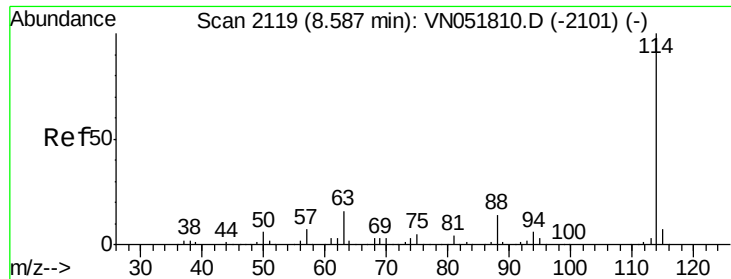
65 100

67 51.3 0.0 110.4



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



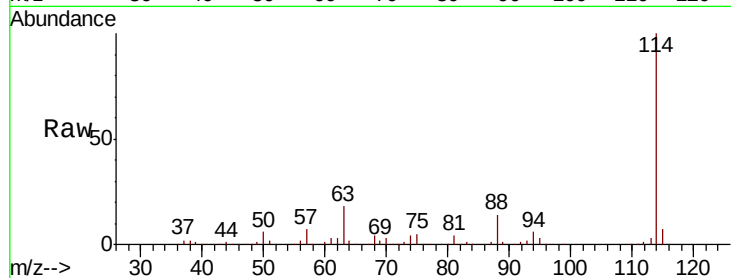


#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051818.D
 Acq: 11 Oct 2018 17:55

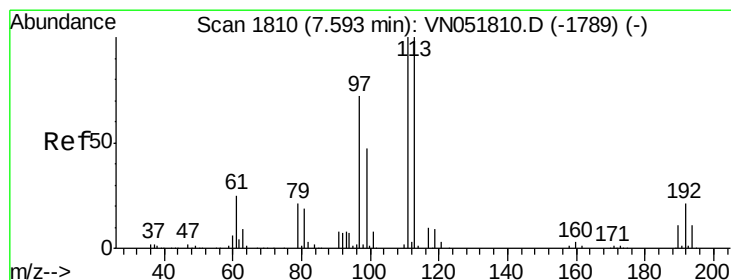
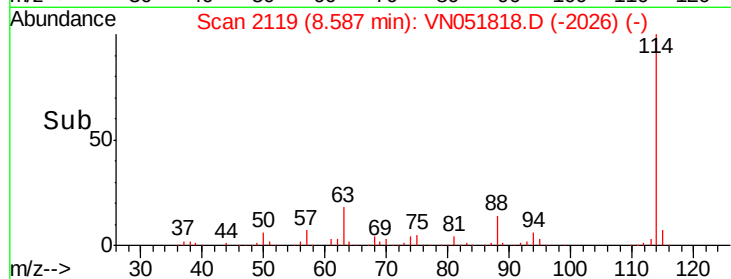
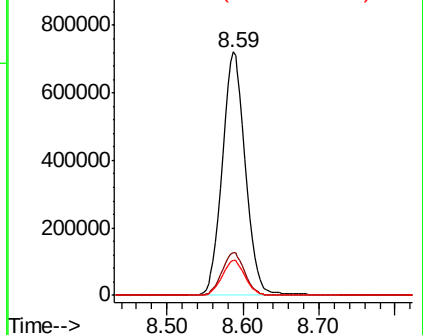
Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 1526964

Ion	Ratio	Lower	Upper
114	100		
63	17.7	0.0	38.6
88	14.4	0.0	30.6



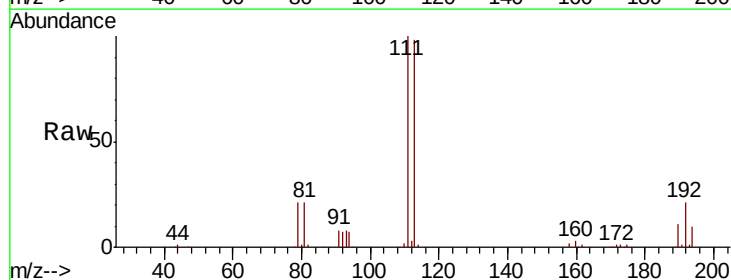
Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN



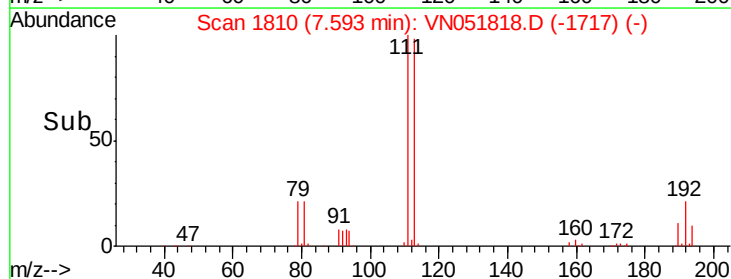
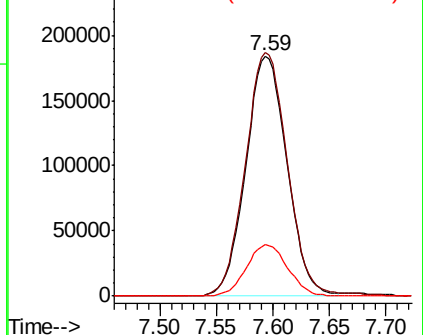
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051818.D
 Acq: 11 Oct 2018 17:55

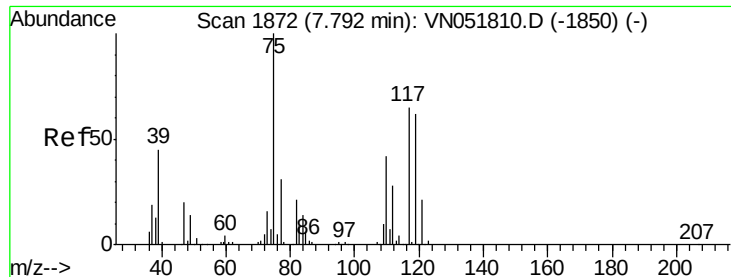
Tgt Ion:113 Resp: 466197

Ion	Ratio	Lower	Upper
113	100		
111	103.8	82.6	123.8
192	21.6	18.0	27.0



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.732 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.12 min

Lab File: VN051818.D

Acq: 11 Oct 2018 17:55

Instrument :

MSVOA_N

ClientSampled :

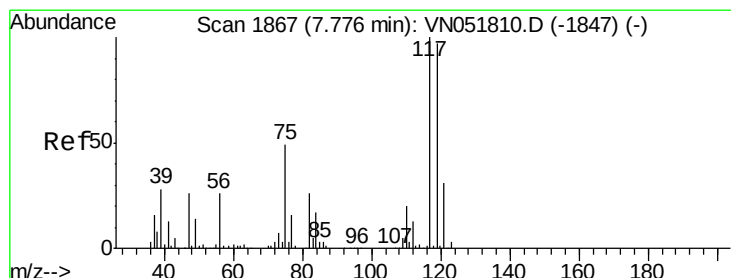
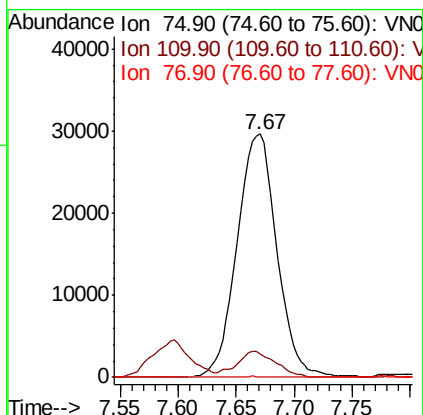
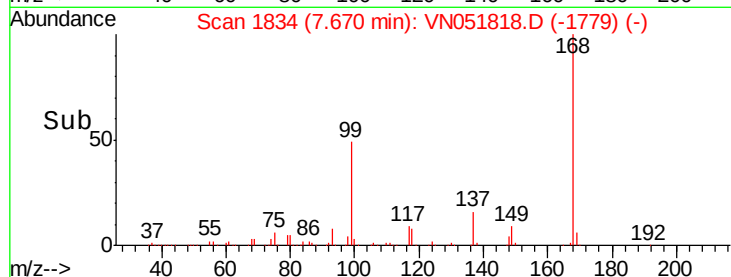
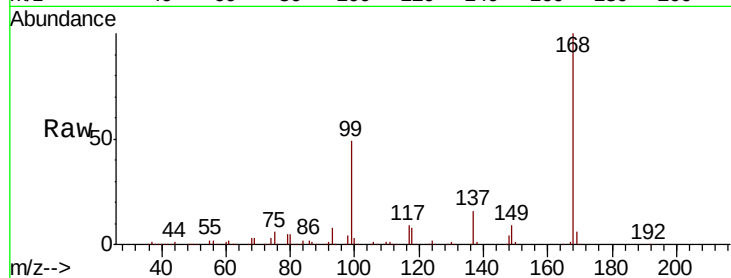
Tot Ion: 75 Resp: 70852

Ion Ratio Lower Upper

75 100

110 10.5 18.1 54.4#

77 0.0 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 6.820 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN051818.D

Acq: 11 Oct 2018 17:55

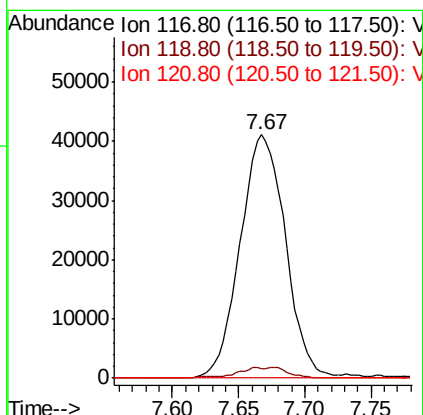
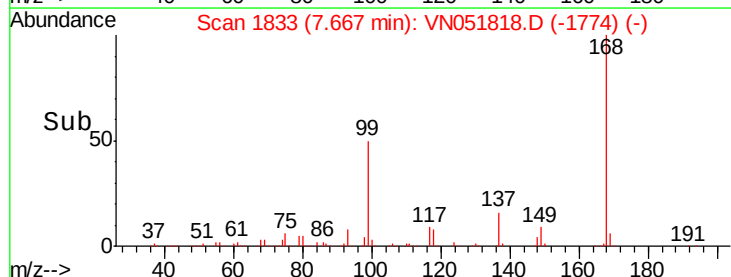
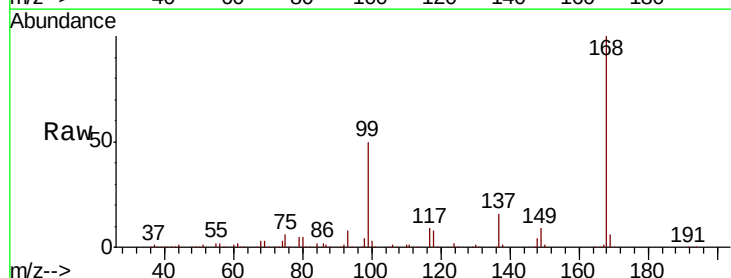
Tgt Ion: 117 Resp: 97725

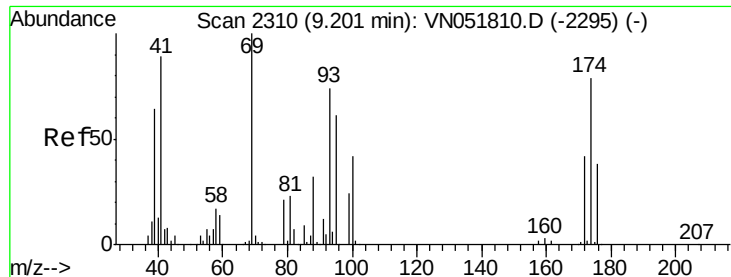
Ion Ratio Lower Upper

117 100

119 4.1 76.3 114.5#

121 0.0 24.6 36.8#





#49

1,4-Dioxane

Concen: 47.462 ug/l

RT: 9.20 min Scan# 2311

Delta R.T. 0.00 min

Lab File: VN051818.D

Acq: 11 Oct 2018 17:55

Instrument :

MSVOA_N

ClientSampleId :

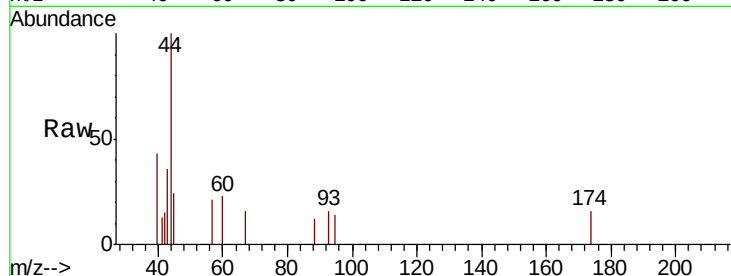
Tot Ion: 88 Resp: 30

Ion Ratio Lower Upper

88 100

43 890.0 25.9 38.9#

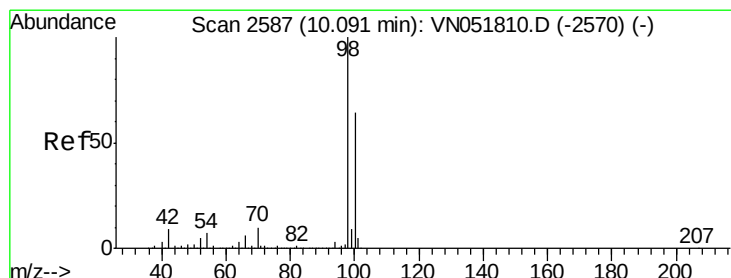
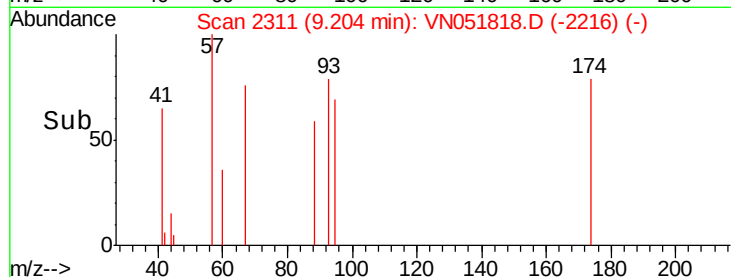
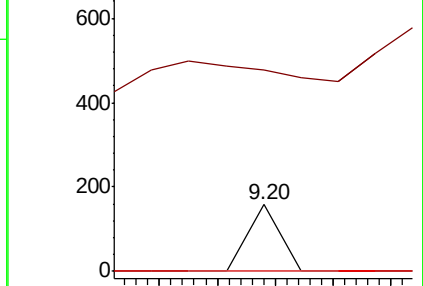
58 0.0 55.0 82.4#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 47.462 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051818.D

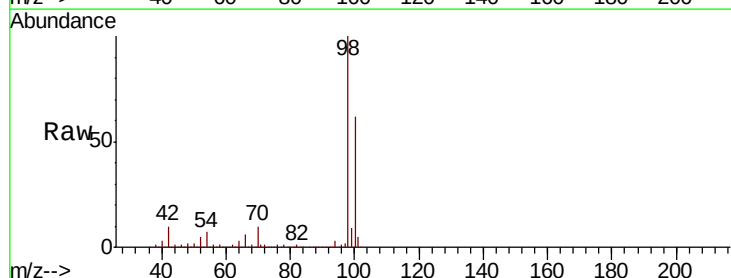
Acq: 11 Oct 2018 17:55

Tgt Ion: 98 Resp: 1828712

Ion Ratio Lower Upper

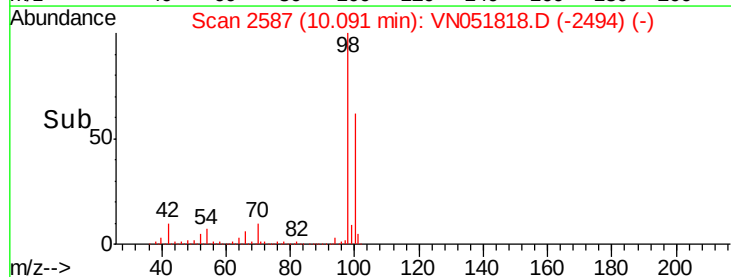
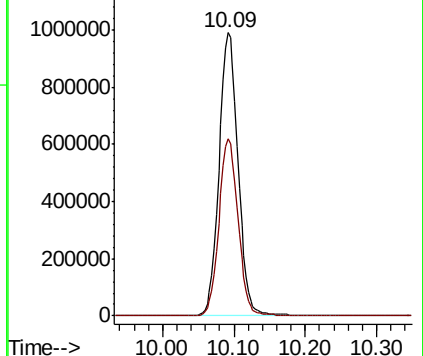
98 100

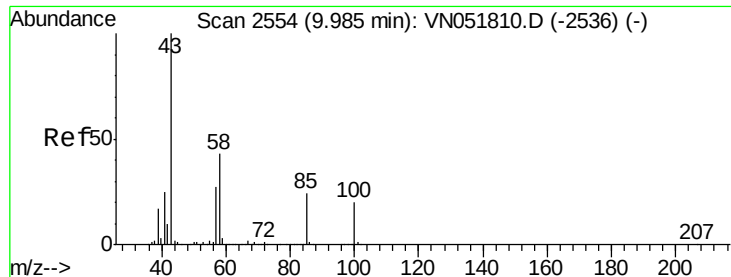
100 62.8 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.289 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN051818.D

Acq: 11 Oct 2018 17:55

Instrument :

MSVOA_N

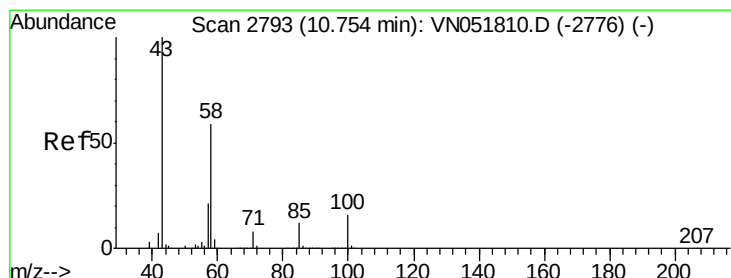
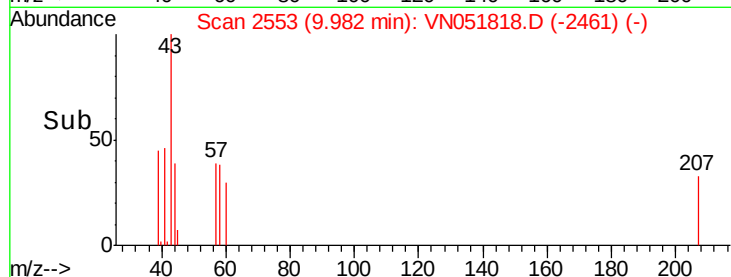
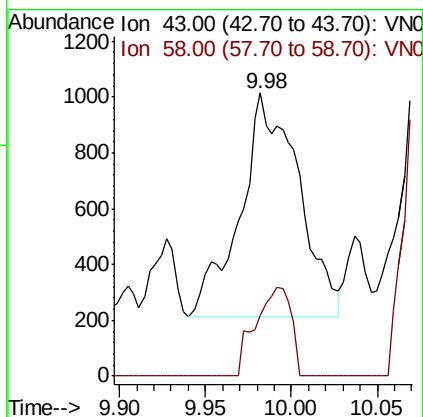
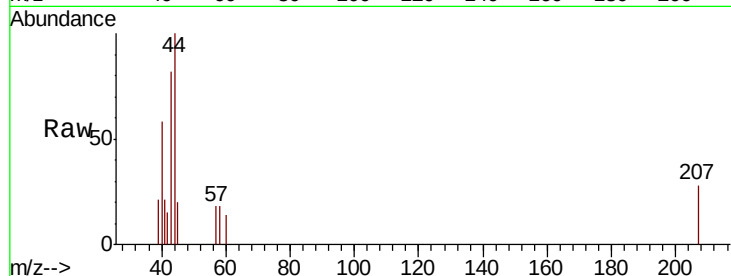
ClientSampled :

Tot Ion: 43 Resp: 1904

Ion Ratio Lower Upper

43 100

58 23.8 32.4 48.6#



#59

2-Hexanone

Concen: 0.380 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN051818.D

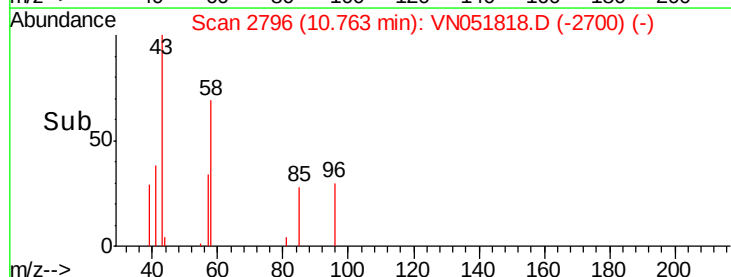
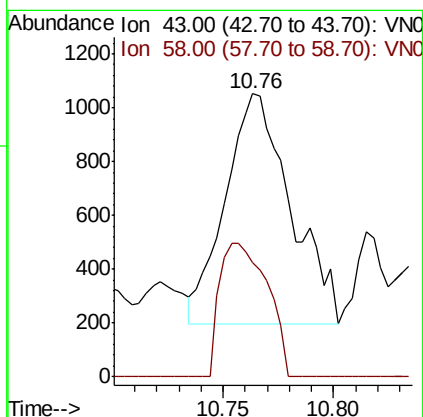
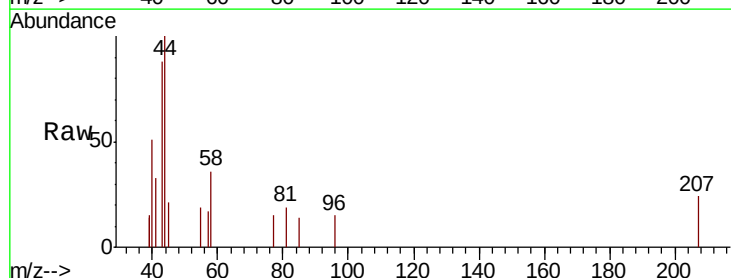
Acq: 11 Oct 2018 17:55

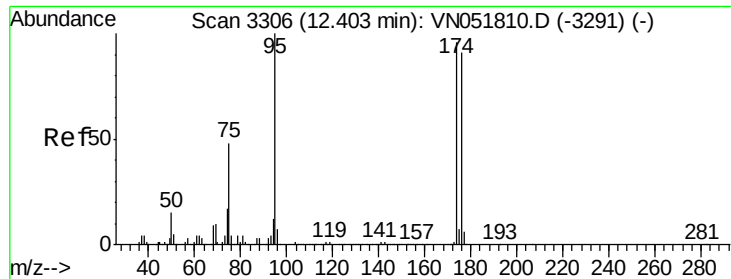
Tgt Ion: 43 Resp: 1759

Ion Ratio Lower Upper

43 100

58 42.4 28.3 85.0

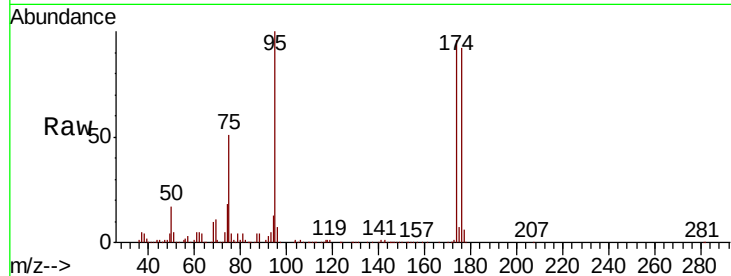




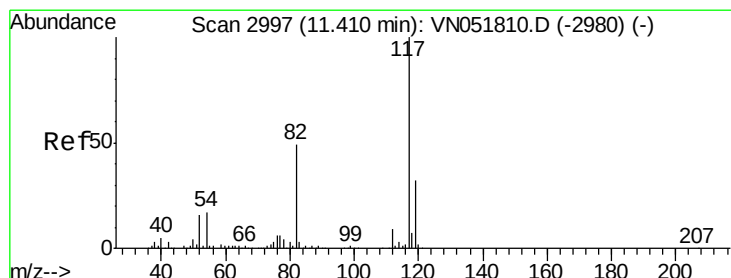
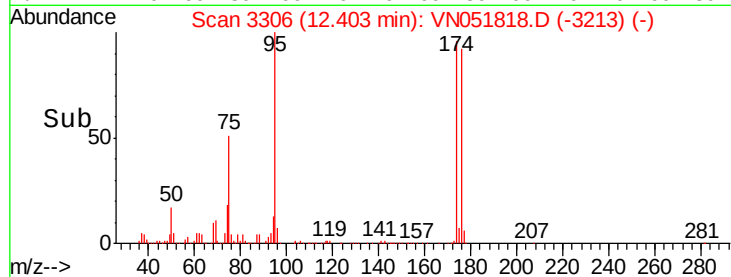
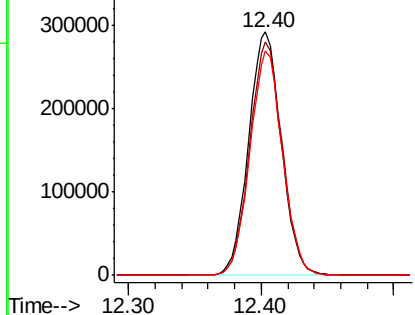
#62
4-Bromofluorobenzene
Concen: Below ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051818.D
Acq: 11 Oct 2018 17:55

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 95 Resp: 496716
Ion Ratio Lower Upper
95 100
174 96.0 0.0 183.0
176 92.1 0.0 178.8

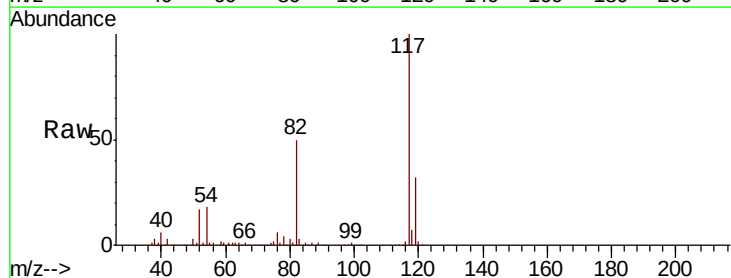


Abundance Ion 94.90 (94.60 to 95.60): VN051818.D (-3291) (-)
Ion 173.80 (173.50 to 174.50): VN051818.D (-3291) (-)
Ion 175.80 (175.50 to 176.50): VN051818.D (-3291) (-)

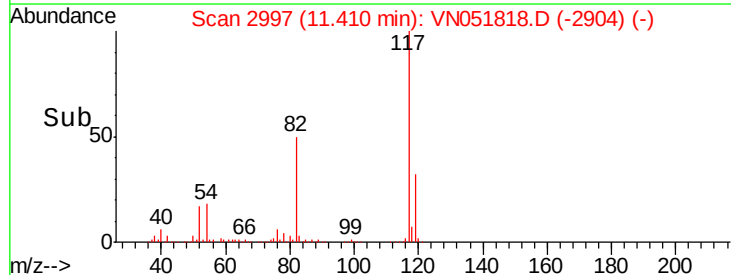
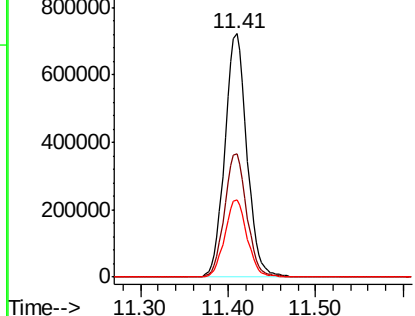


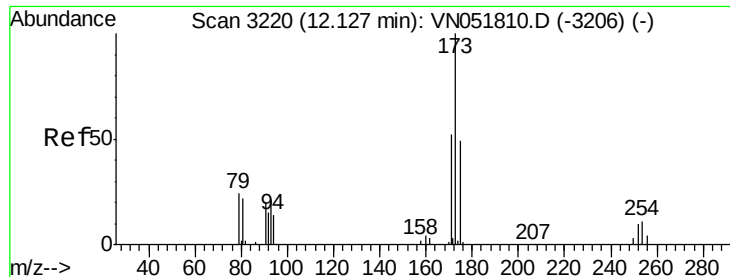
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051818.D
Acq: 11 Oct 2018 17:55

Tgt Ion: 117 Resp: 1266067
Ion Ratio Lower Upper
117 100
82 50.4 42.6 64.0
119 31.8 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): VN051818.D (-2980) (-)
Ion 82.00 (81.70 to 82.70): VN051818.D (-2980) (-)
Ion 118.90 (118.60 to 119.60): VN051818.D (-2980) (-)





#71

Bromoform

Concen: 4.057 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN051818.D

Acq: 11 Oct 2018 17:55

Instrument :

MSVOA_N

ClientSampled :

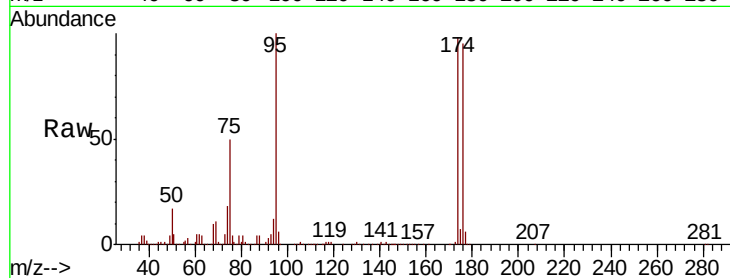
Tot Ion:173 Resp: 3957

Ion Ratio Lower Upper

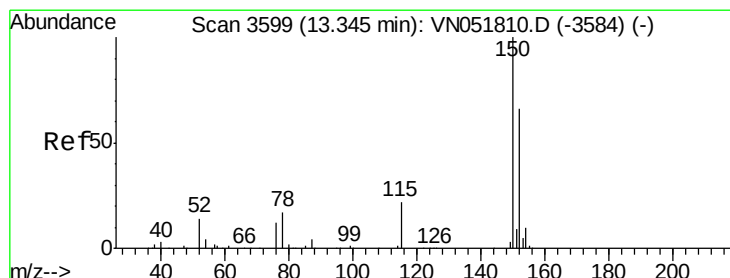
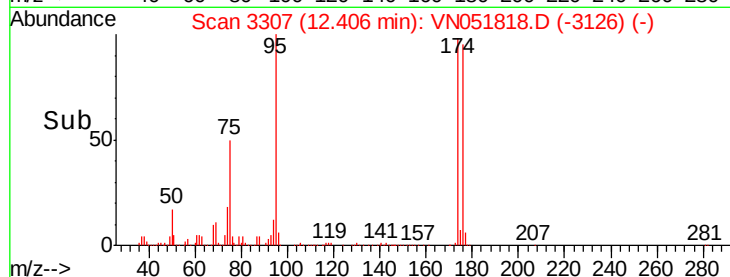
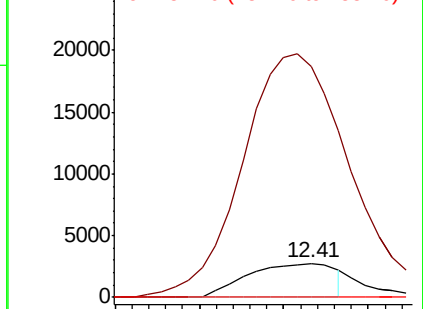
173 100

175 726.5 24.4 73.4#

254 0.0 0.1 0.1#



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051818.D

Acq: 11 Oct 2018 17:55

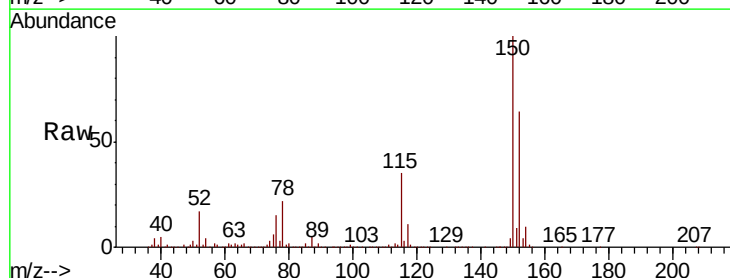
Tgt Ion:152 Resp: 430218

Ion Ratio Lower Upper

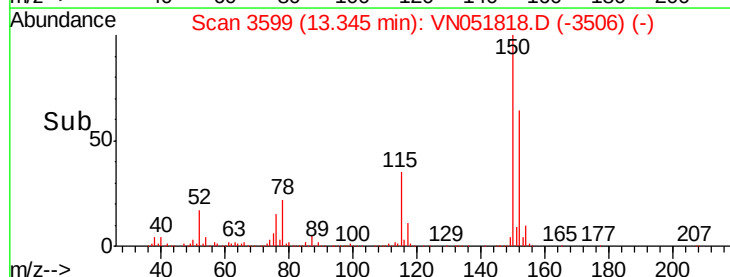
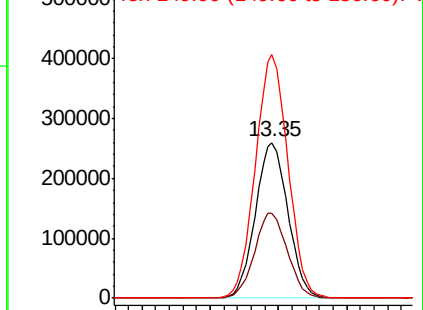
152 100

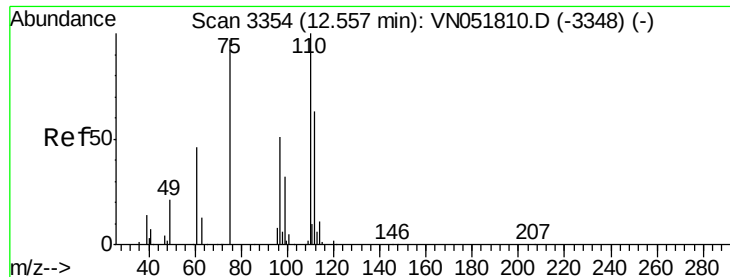
115 55.5 27.8 83.4

150 156.3 0.0 351.4



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: 47.796 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051818.D

Acq: 11 Oct 2018 17:55

Instrument :

MSVOA_N

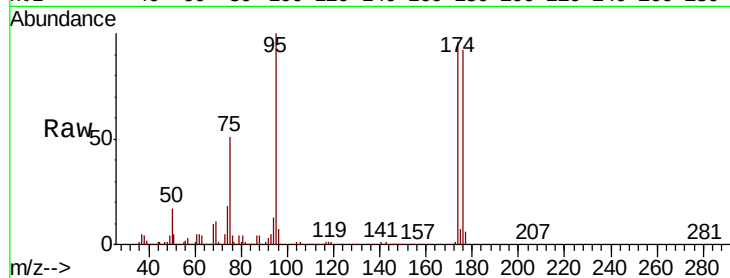
ClientSampleId :

Tot Ion: 75 Resp: 253803

Ion Ratio Lower Upper

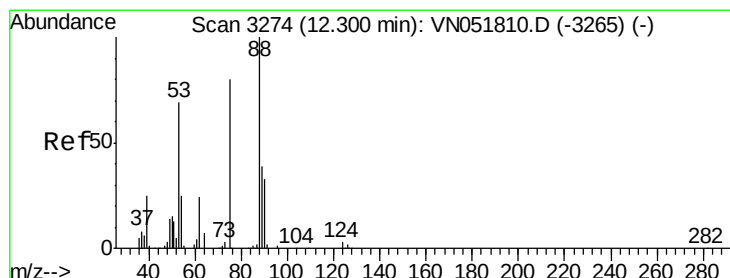
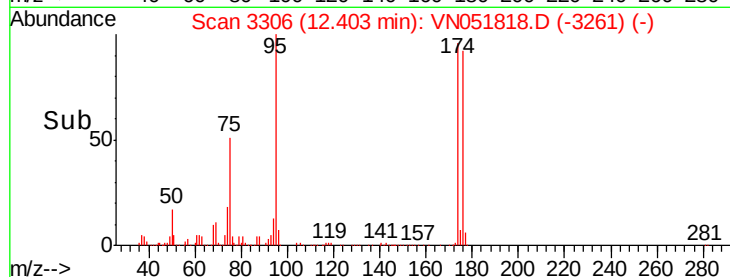
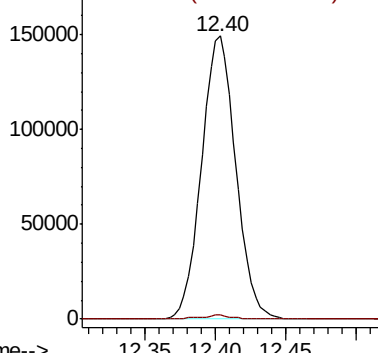
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 135.851 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051818.D

Acq: 11 Oct 2018 17:55

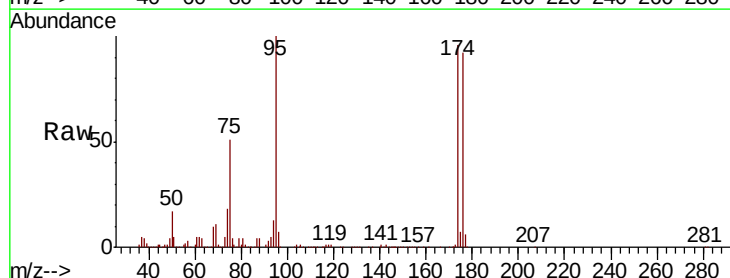
Tgt Ion: 75 Resp: 253803

Ion Ratio Lower Upper

75 100

53 0.0 68.9 103.3#

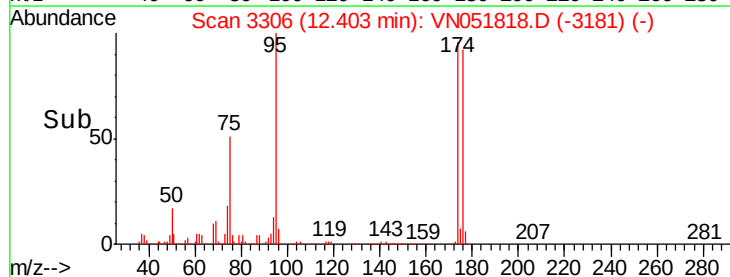
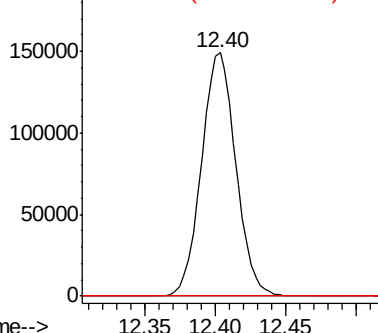
89 0.0 36.1 54.1#

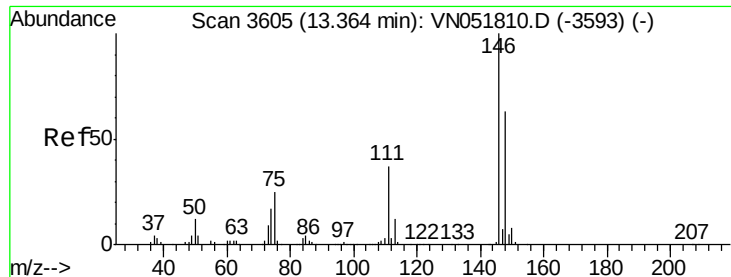


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

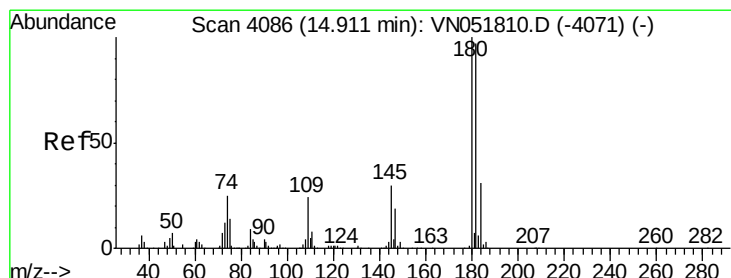
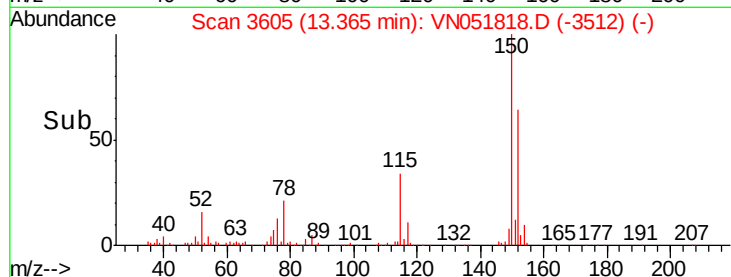
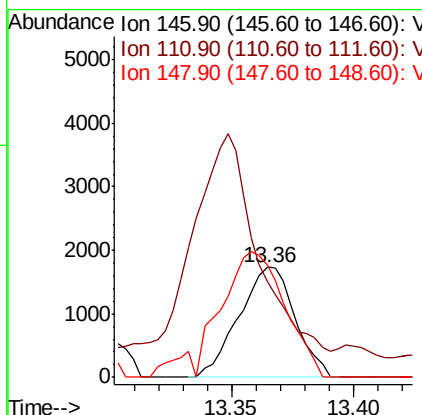
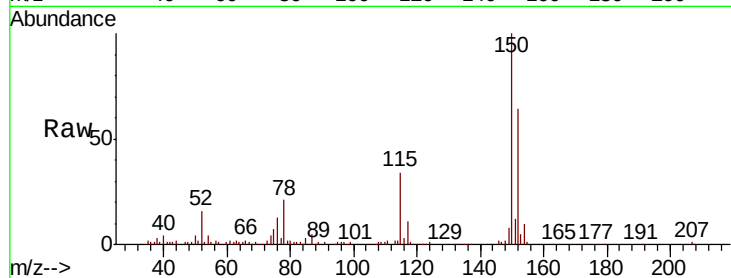




#88
 1,4-Dichlorobenzene
 Concen: 0.201 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN051818.D
 Acq: 11 Oct 2018 17:55

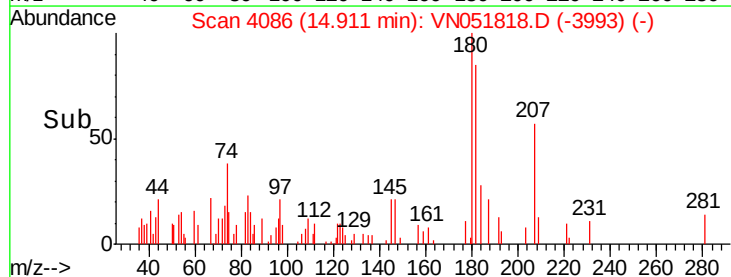
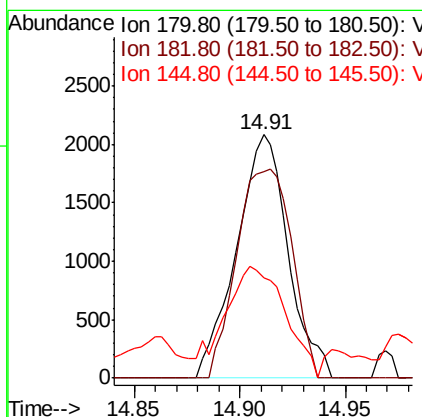
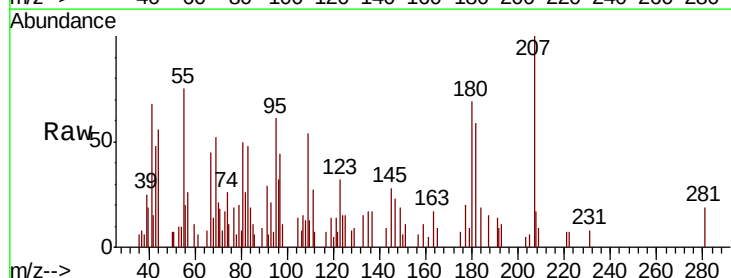
Instrument :
 MSVOA_N
 ClientSampled :

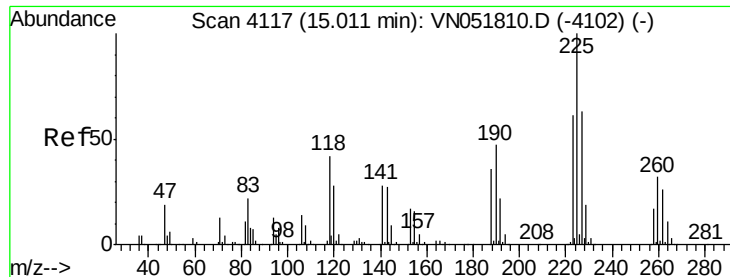
Tot Ion:146 Resp: 2758
 Ion Ratio Lower Upper
 146 100
 111 231.8 18.8 56.3#
 148 137.7 32.2 96.6#



#93
 1,2,4-Trichlorobenzene
 Concen: 4.110 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN051818.D
 Acq: 11 Oct 2018 17:55

Tgt Ion:180 Resp: 3548
 Ion Ratio Lower Upper
 180 100
 182 91.6 48.2 144.6
 145 54.2 14.1 42.2#





#94

Hexachlorobutadiene

Concen: 0.221 ug/l

RT: 15.01 min Scan# 4117

Delta R.T. 0.00 min

Lab File: VN051818.D

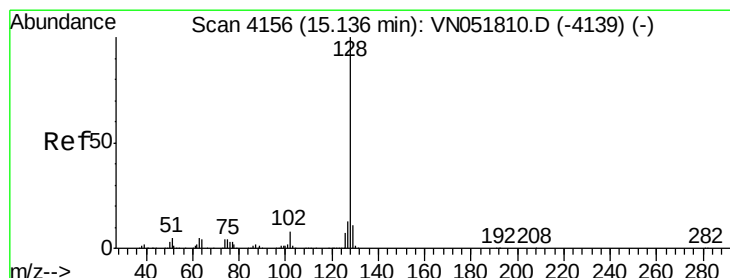
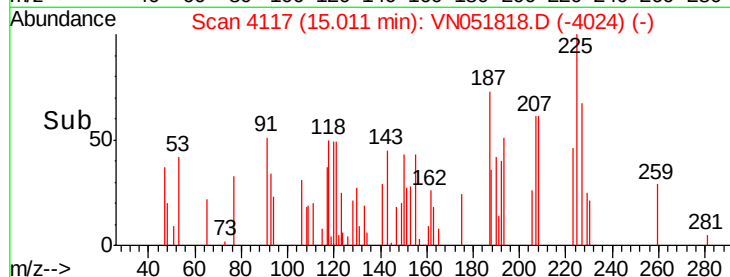
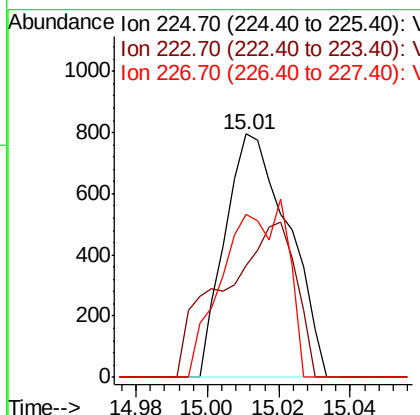
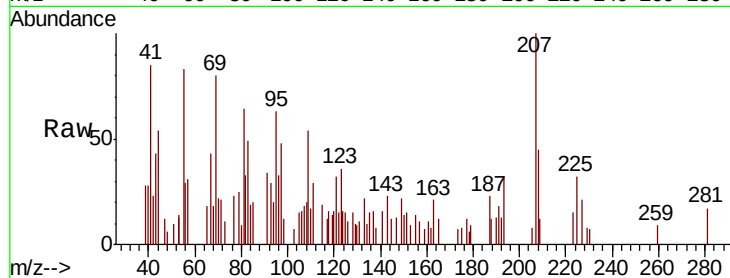
Acq: 11 Oct 2018 17:55

Instrument :

MSVOA_N

ClientSampled :

Tot Ion:	225	Resp:	978
Ion	Ratio	Lower	Upper
225	100		
223	73.8	31.3	93.8
227	71.8	32.0	96.2



#95

Naphthalene

Concen: 5.094 ug/l

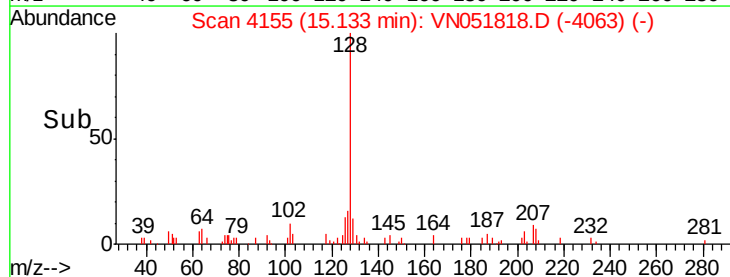
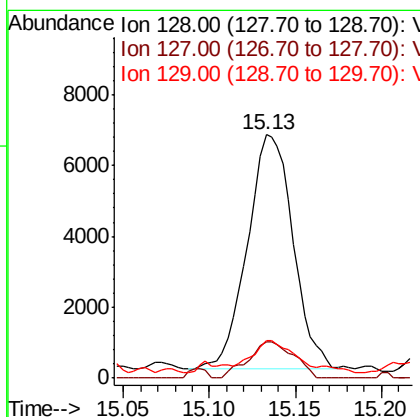
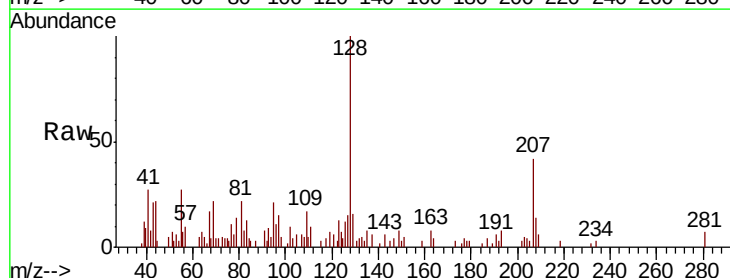
RT: 15.13 min Scan# 4155

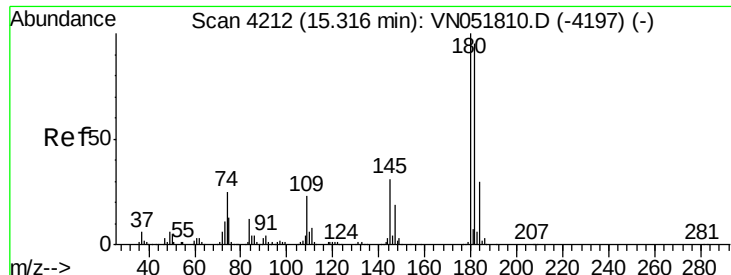
Delta R.T. -0.00 min

Lab File: VN051818.D

Acq: 11 Oct 2018 17:55

Tgt Ion:	128	Resp:	12133
Ion	Ratio	Lower	Upper
128	100		
127	15.5	10.5	15.7
129	15.8	8.7	13.1#





#96
 1,2,3-Trichlorobenzene
 Concen: 3.527 ug/l
 RT: 15.32 min Scan# 4213
 Delta R.T. 0.00 min
 Lab File: VN051818.D
 Acq: 11 Oct 2018 17:55

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	86.5	48.0	144.2
145	13.8	15.2	45.6

