

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN103118\
 Data File : VN052083.D
 Acq On : 31 Oct 2018 19:26
 Operator : MD\SY
 Sample : J5202-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 01 01:44:23 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N103018W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 31 02:45:22 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	285855	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	524891	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	505521	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	204868	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	244749	53.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.72%	
35) Dibromofluoromethane	7.59	113	200625	61.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	122.20%	
50) Toluene-d8	10.09	98	791411	60.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	120.60%	
62) 4-Bromofluorobenzene	12.40	95	271639	56.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.76%	

Target Compounds

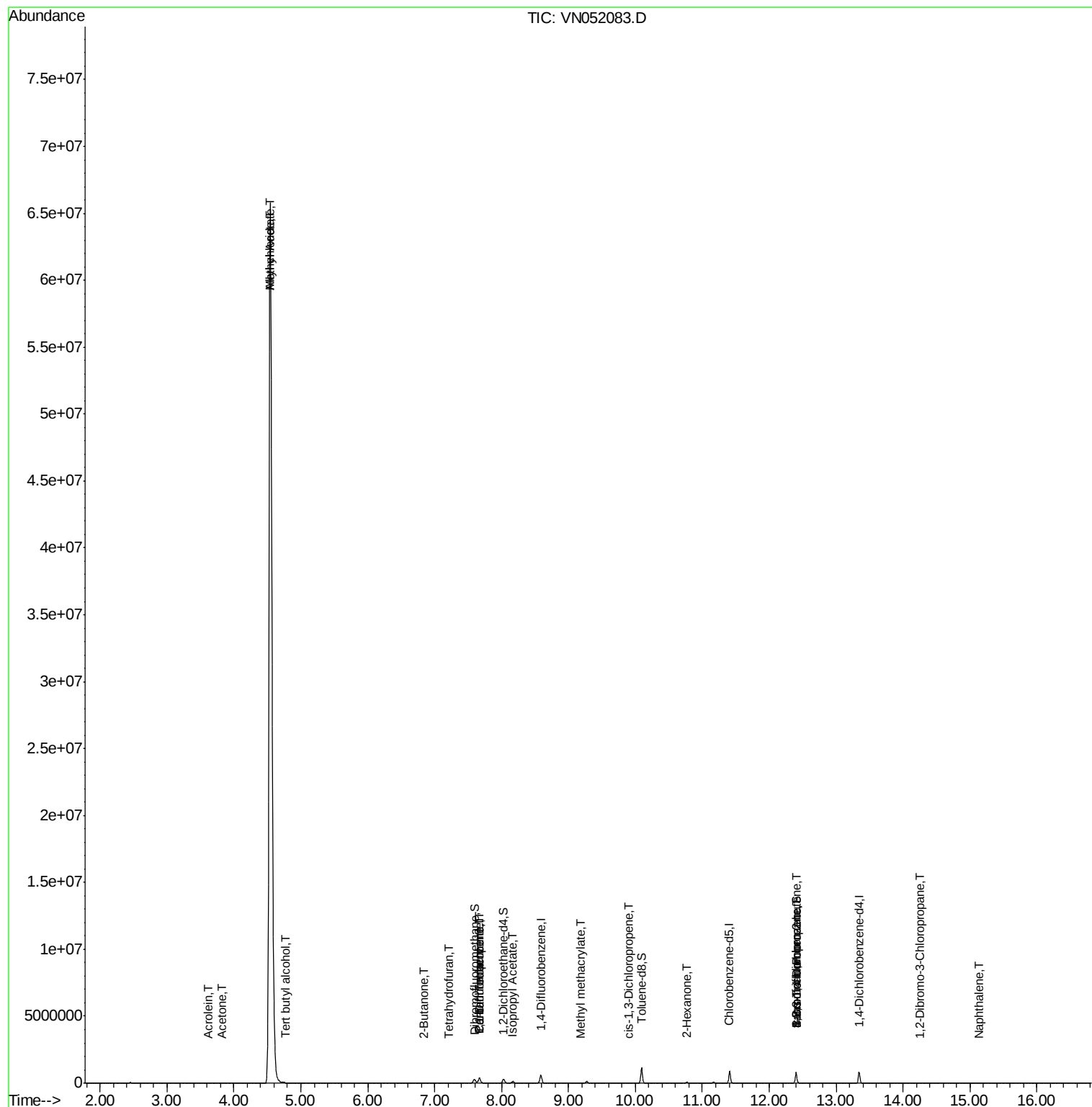
						Qvalue
11) Tert butyl alcohol	4.78	59	65	0.283	ug/l #	76
13) Acrolein	3.61	56	160	24.664	ug/l #	12
14) Allyl chloride	4.54	41	1828078	304.611	ug/l #	24
16) Acetone	3.82	43	11936	12.190	ug/l #	87
18) Methyl Acetate	4.54	43	201110	64.520	ug/l	99
25) 2-Butanone	6.85	43	1142	0.744	ug/l #	50
29) Tetrahydrofuran	7.21	42	245	0.239	ug/l #	45
31) Cyclohexane	7.67	56	6788	Below Cal	#	2
36) 1,1-Dichloropropene	7.67	75	24579	4.605	ug/l #	47
38) Carbon Tetrachloride	7.67	117	31814	6.913	ug/l #	17
43) Isopropyl Acetate	8.17	43	161901	25.481	ug/l	97
48) Methyl methacrylate	9.18	41	4351	1.351	ug/l #	16
54) cis-1,3-Dichloropropene	9.90	75	1243	0.207	ug/l #	54
59) 2-Hexanone	10.77	43	9007	3.660	ug/l	65
71) Bromoform	12.40	173	2680	3.371	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	142491	37.996	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	142491	126.113	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	14.26	75	62	1.019	ug/l #	11
95) Naphthalene	15.13	128	9110	1.552	ug/l #	94

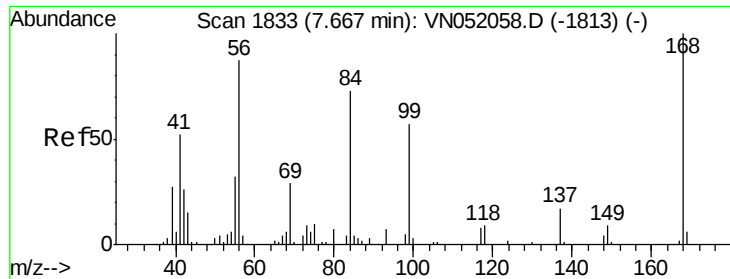
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN052083.D

Acq: 31 Oct 2018 19:26

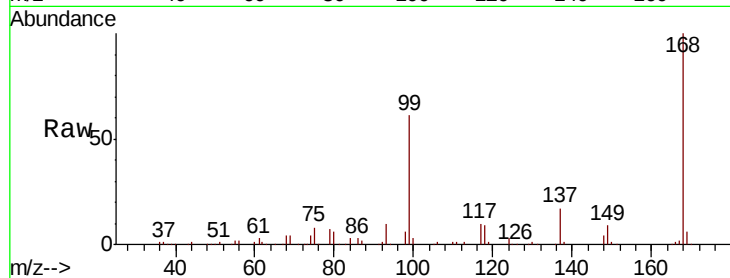
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 285855

Ion Ratio Lower Upper

168 100

99 61.0 56.6 85.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

150000

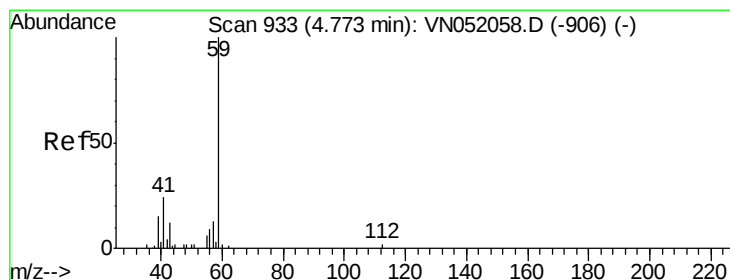
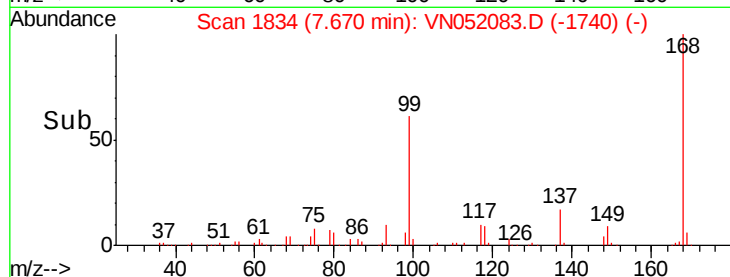
100000

50000

0

Time-->

7.60 7.70 7.80



#11

Tert butyl alcohol

Concen: 0.283 ug/l

RT: 4.78 min Scan# 934

Delta R.T. 0.00 min

Lab File: VN052083.D

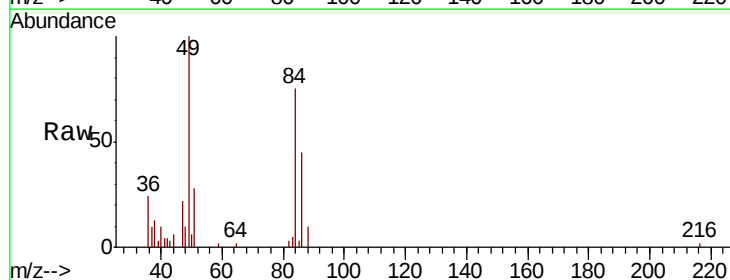
Acq: 31 Oct 2018 19:26

Tgt Ion: 59 Resp: 65

Ion Ratio Lower Upper

59 100

57 0.0 7.0 10.6#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.78

200

150

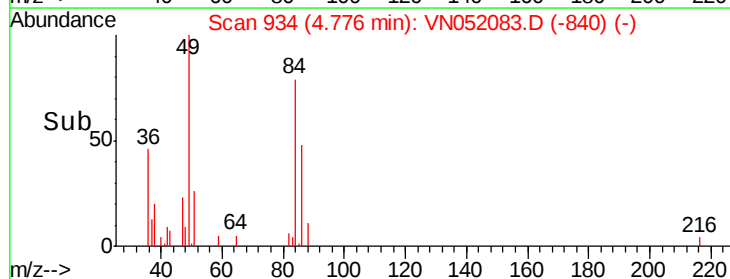
100

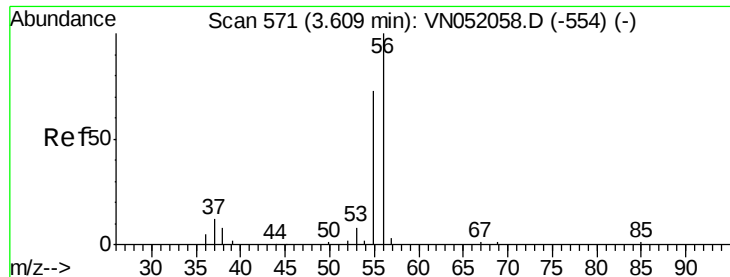
50

0

Time-->

4.77 4.78 4.79





#13

Acrolein

Concen: 24.664 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN052083.D

Acq: 31 Oct 2018 19:26

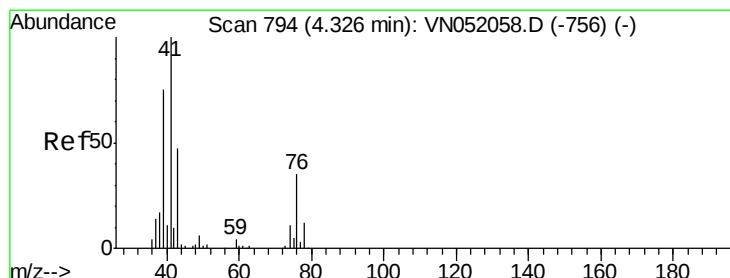
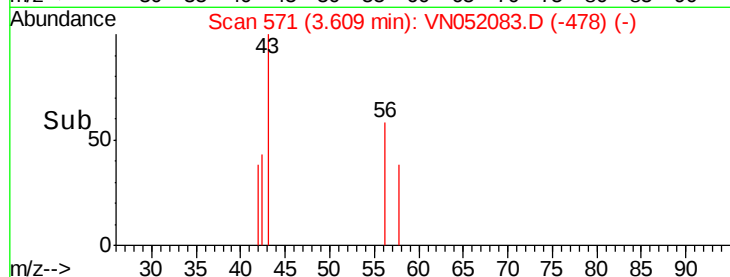
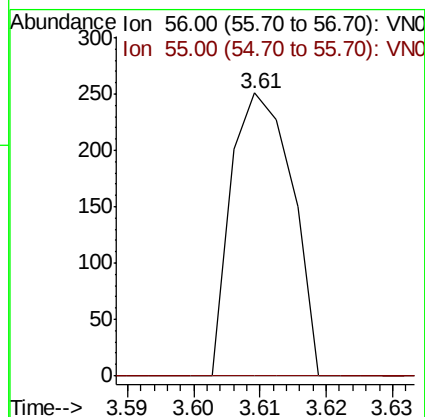
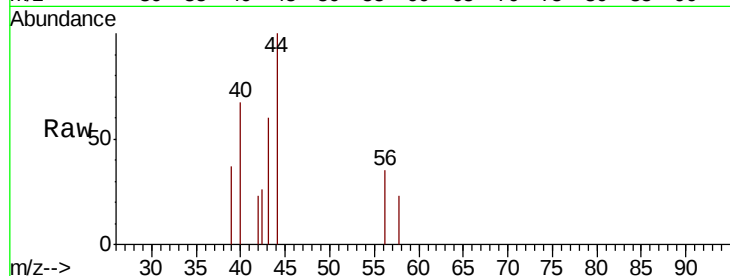
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 160

Ion Ratio Lower Upper

56 100

55 0.0 59.9 89.9#



#14

Allyl chloride

Concen: 304.611 ug/l

RT: 4.54 min Scan# 861

Delta R.T. 0.22 min

Lab File: VN052083.D

Acq: 31 Oct 2018 19:26

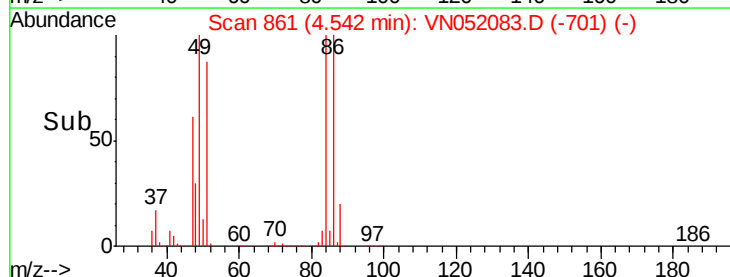
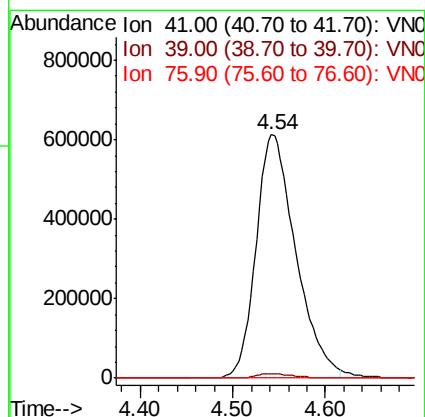
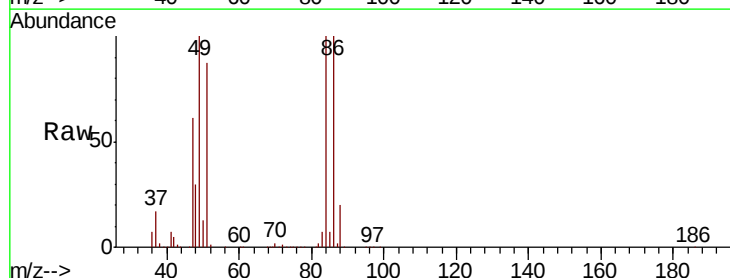
Tgt Ion: 41 Resp: 1828078

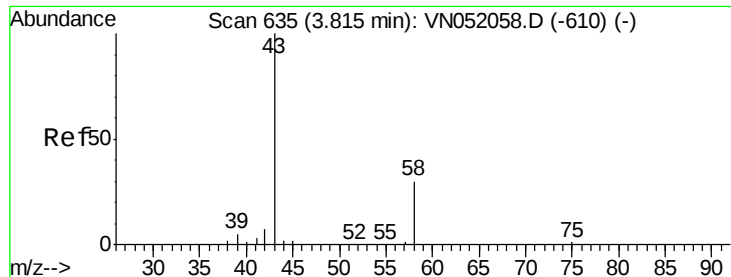
Ion Ratio Lower Upper

41 100

39 1.8 58.1 87.1#

76 0.0 26.0 39.0#





#16

Acetone

Concen: 12.190 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN052083.D

Acq: 31 Oct 2018 19:26

Instrument :

MSVOA_N

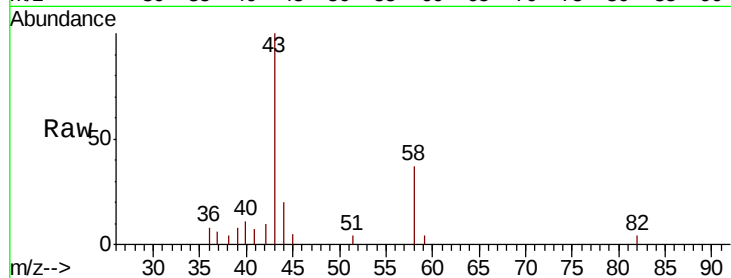
ClientSampleId :

Tot Ion: 43 Resp: 11936

Ion Ratio Lower Upper

43 100

58 37.1 24.2 36.2#



Abundance Ion 43.00 (42.70 to 43.70): VN052058.D (-610) (-)

Ion 58.00 (57.70 to 58.70): VN052058.D (-610) (-)

5000

4000

3000

2000

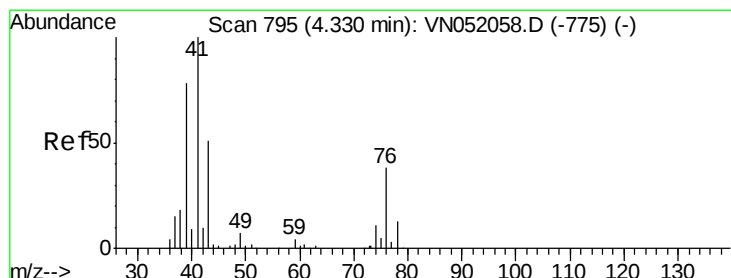
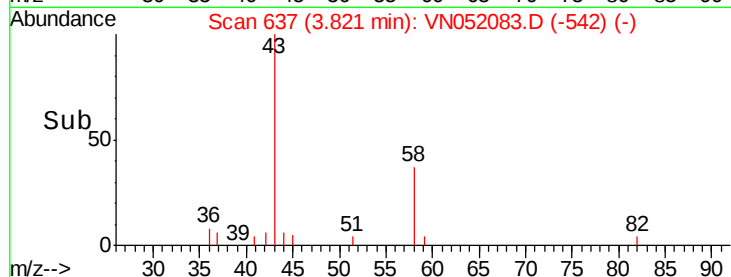
1000

0

Time-->

3.75 3.80 3.85 3.90

3.82



#18

Methyl Acetate

Concen: 64.520 ug/l

RT: 4.54 min Scan# 862

Delta R.T. 0.22 min

Lab File: VN052083.D

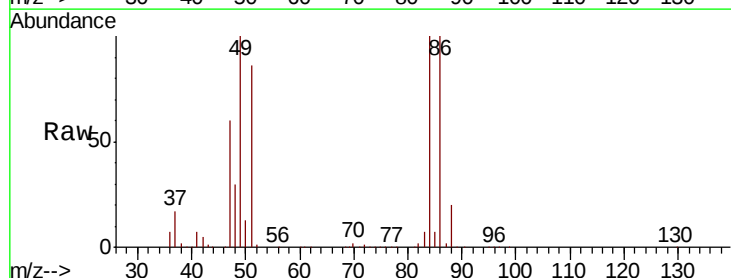
Acq: 31 Oct 2018 19:26

Tgt Ion: 43 Resp: 201110

Ion Ratio Lower Upper

43 100

74 22.7 17.9 26.9



Abundance Ion 43.00 (42.70 to 43.70): VN052058.D (-775) (-)

Ion 74.00 (73.70 to 74.70): VN052058.D (-775) (-)

80000

60000

40000

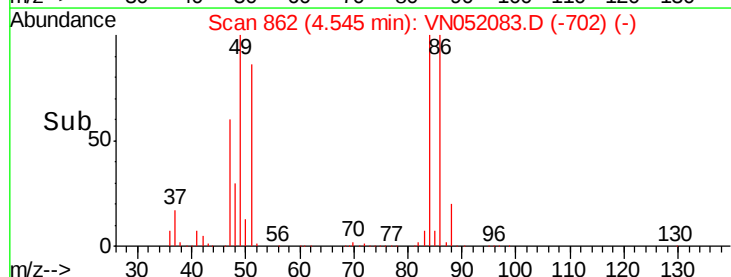
20000

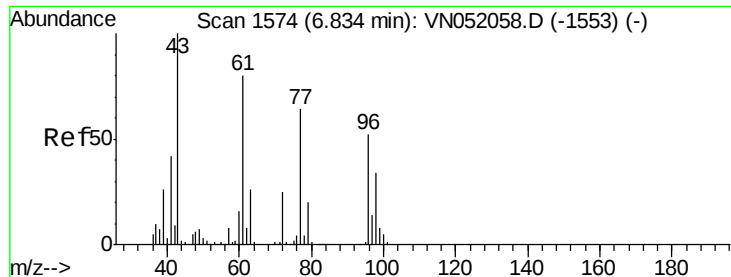
0

Time-->

4.50 4.55 4.60

4.54

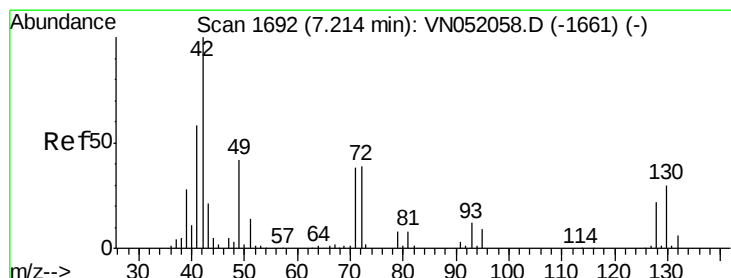
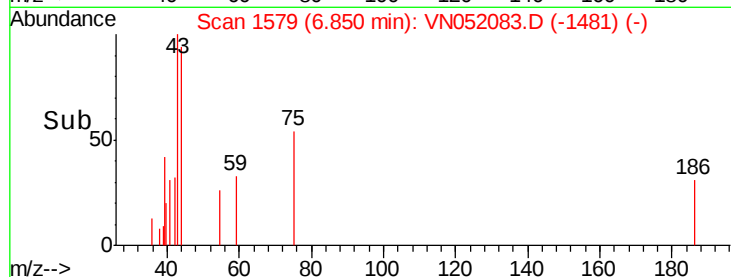
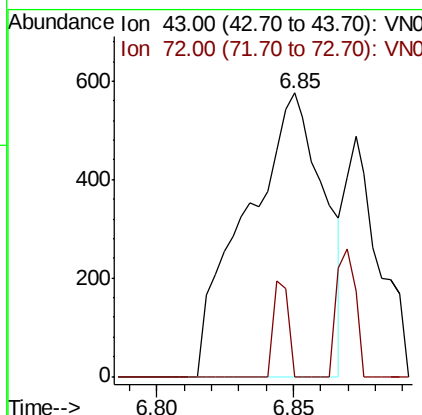
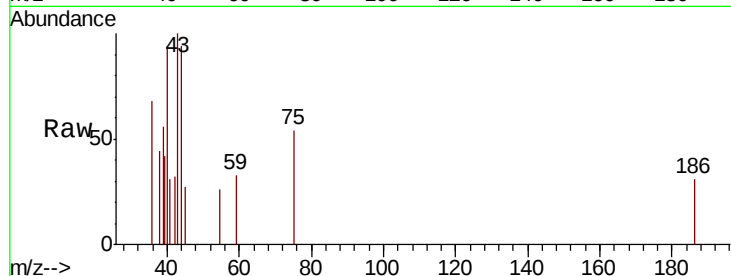




#25
 2-Butanone
 Concen: 0.744 ug/l
 RT: 6.85 min Scan# 1579
 Delta R.T. 0.02 min
 Lab File: VN052083.D
 Acq: 31 Oct 2018 19:26

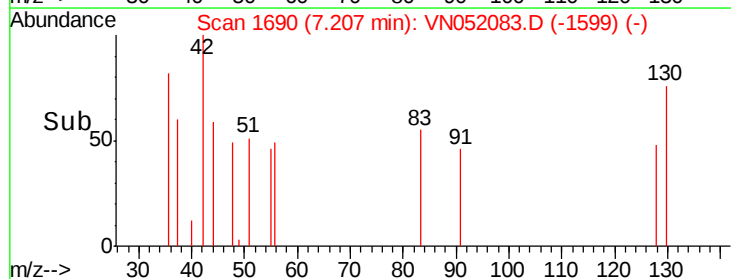
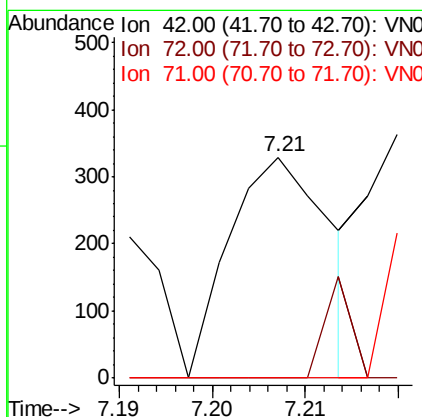
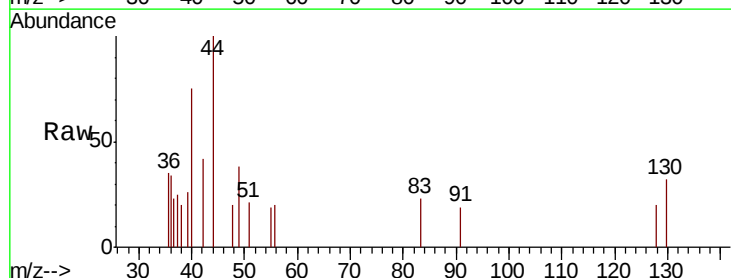
Instrument :
 MSVOA_N
 ClientSampled :

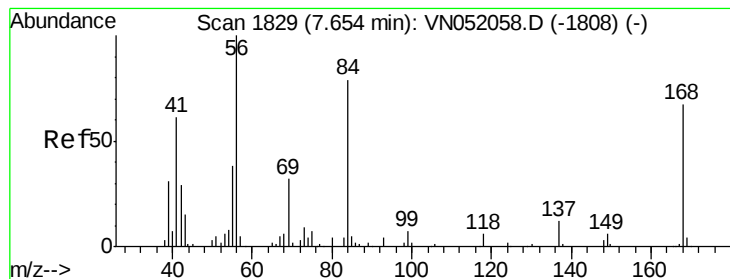
Tot Ion: 43 Resp: 1142
 Ion Ratio Lower Upper
 43 100
 72 0.0 20.2 30.2#



#29
 Tetrahydrofuran
 Concen: 0.239 ug/l
 RT: 7.21 min Scan# 1690
 Delta R.T. -0.01 min
 Lab File: VN052083.D
 Acq: 31 Oct 2018 19:26

Tgt Ion: 42 Resp: 245
 Ion Ratio Lower Upper
 42 100
 72 11.8 32.5 48.7#
 71 0.0 30.6 46.0#





#31

Cyclohexane

Concen: Below Cal

RT: 7.67 min Scan# 1834

Delta R.T. 0.02 min

Lab File: VN052083.D

Acq: 31 Oct 2018 19:26

Instrument :
MSVOA_N
ClientSampled :

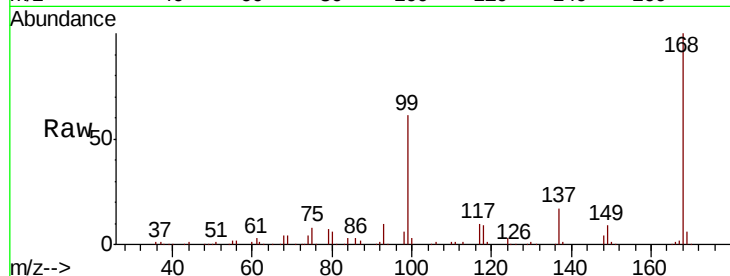
Tot Ion: 56 Resp: 6788

Ion Ratio Lower Upper

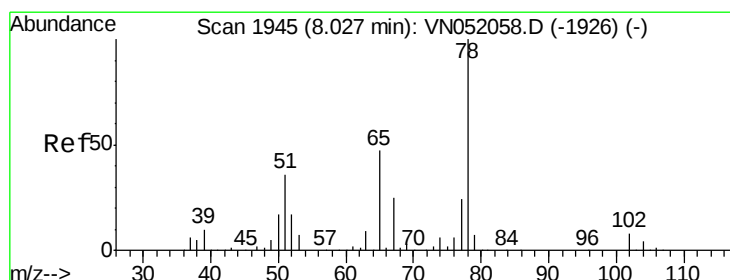
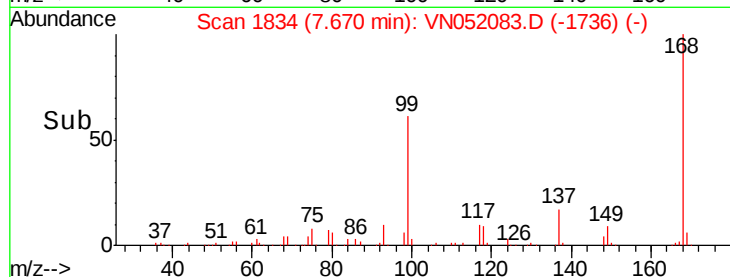
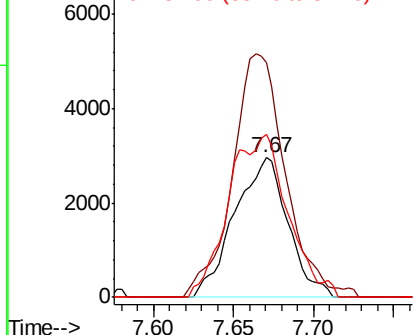
56 100

69 162.3 25.8 38.6#

84 117.1 63.5 95.3#



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# 1945

Delta R.T. -0.00 min

Lab File: VN052083.D

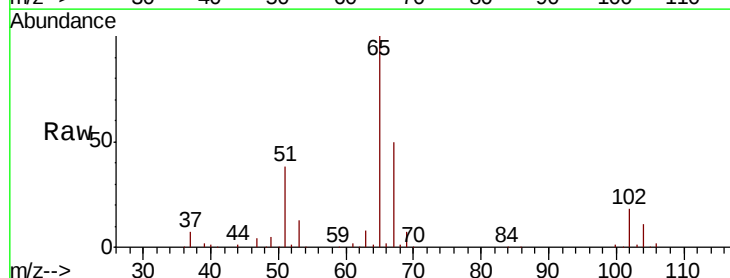
Acq: 31 Oct 2018 19:26

Tgt Ion: 65 Resp: 244749

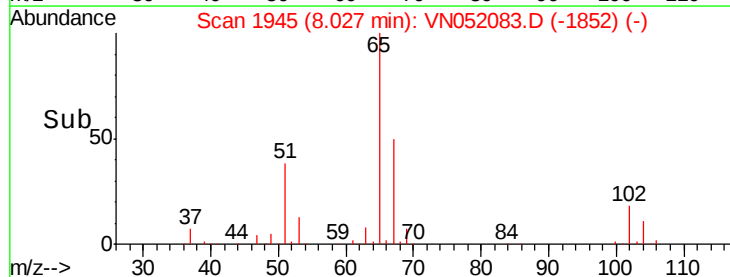
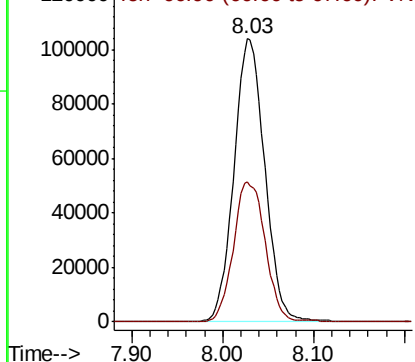
Ion Ratio Lower Upper

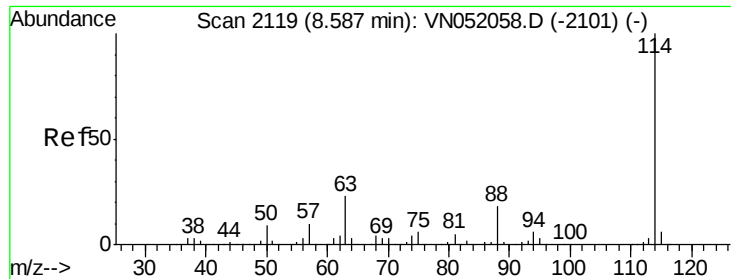
65 100

67 51.4 0.0 105.2



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

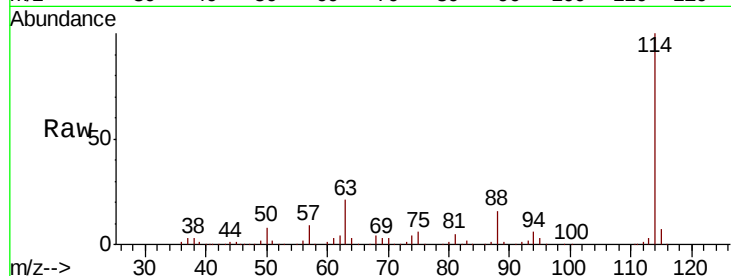




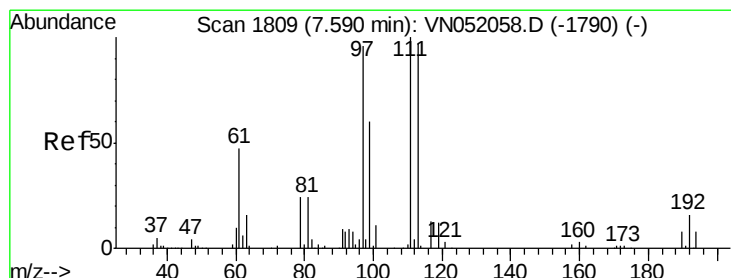
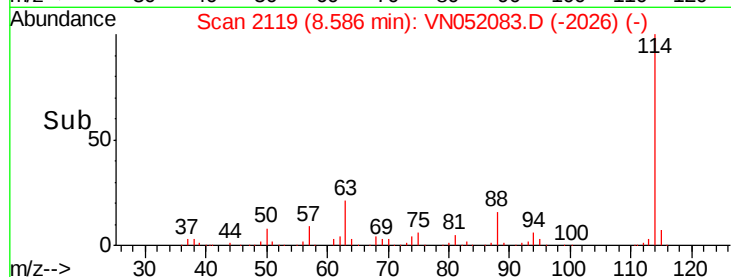
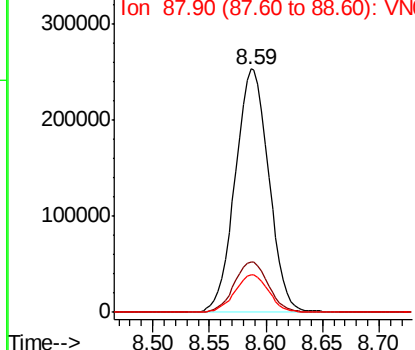
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN052083.D
 Acq: 31 Oct 2018 19:26

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 524891
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 46.0
 88 15.6 0.0 35.4

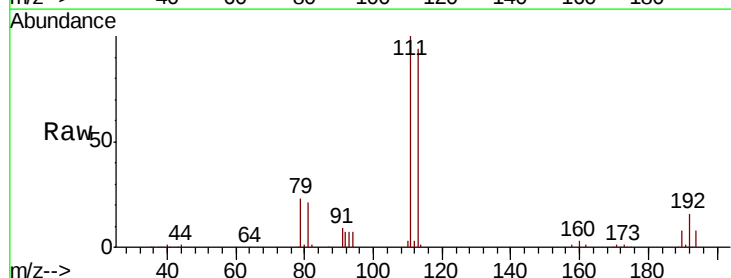


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

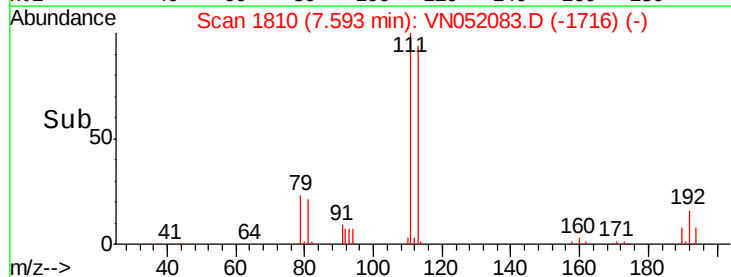
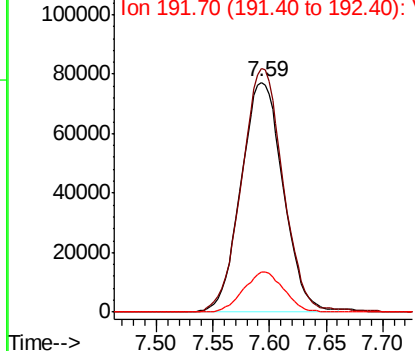


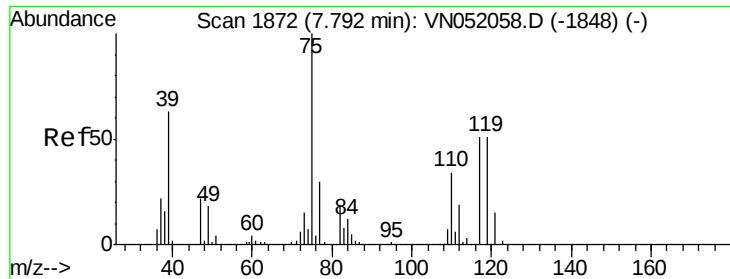
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN052083.D
 Acq: 31 Oct 2018 19:26

Tgt Ion:113 Resp: 200625
 Ion Ratio Lower Upper
 113 100
 111 104.5 83.1 124.7
 192 16.6 12.7 19.1



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

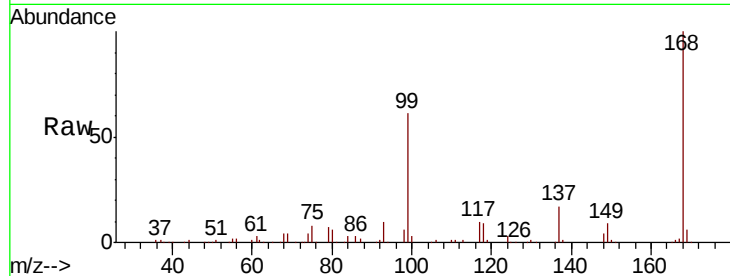




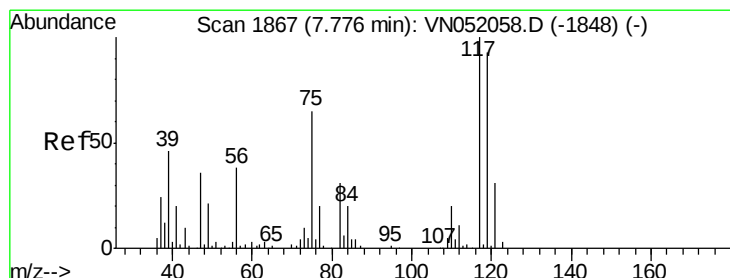
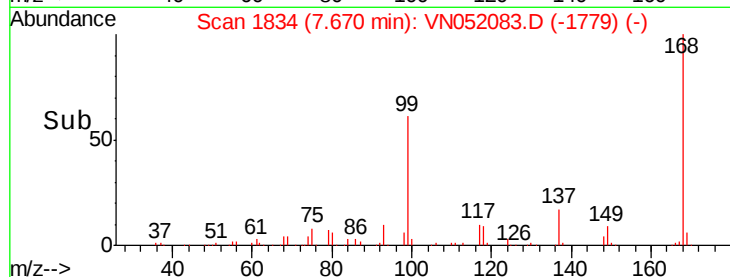
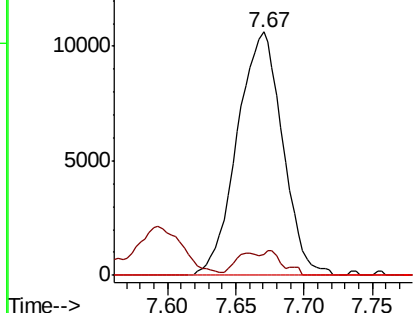
#36
 1,1-Dichloropropene
 Concen: 4.605 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.12 min
 Lab File: VN052083.D
 Acq: 31 Oct 2018 19:26

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion: 75 Resp: 24579
 Ion Ratio Lower Upper
 75 100
 110 3.9 16.0 48.0#
 77 0.0 24.5 36.7#

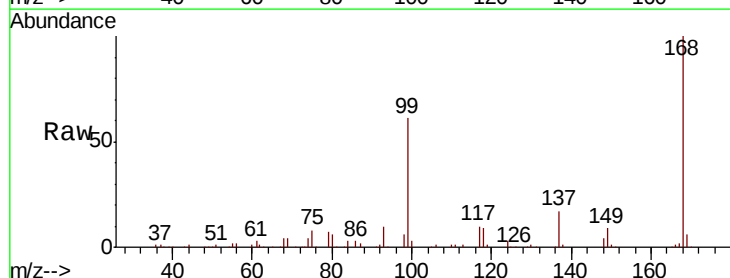


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

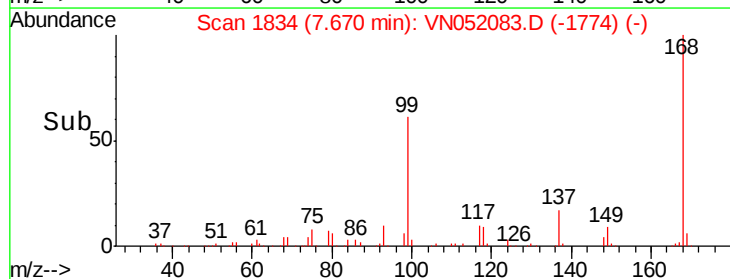
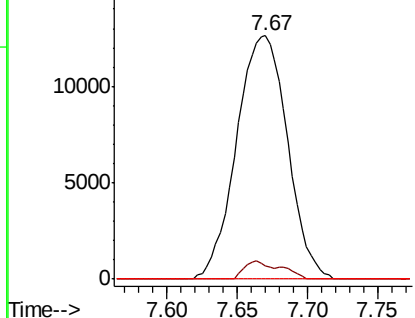


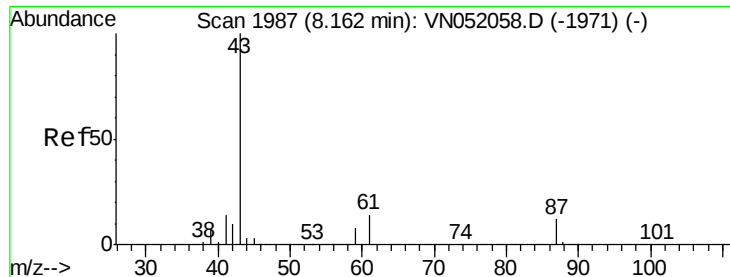
#38
 Carbon Tetrachloride
 Concen: 6.913 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.11 min
 Lab File: VN052083.D
 Acq: 31 Oct 2018 19:26

Tgt Ion: 117 Resp: 31814
 Ion Ratio Lower Upper
 117 100
 119 5.6 74.8 112.2#
 121 0.0 25.1 37.7#



Abundance Ion 116.80 (116.50 to 117.50): V
 Ion 118.80 (118.50 to 119.50): V
 Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 25.481 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN052083.D

Acq: 31 Oct 2018 19:26

Instrument :

MSVOA_N

ClientSampleId :

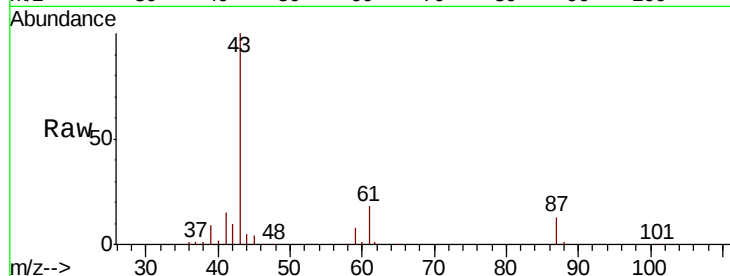
Tot Ion: 43 Resp: 161901

Ion Ratio Lower Upper

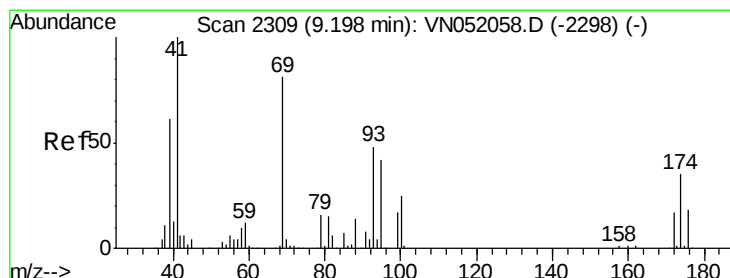
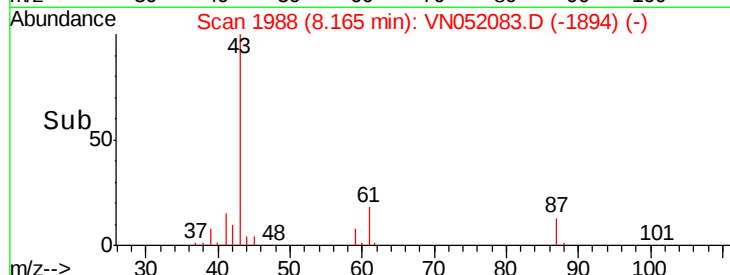
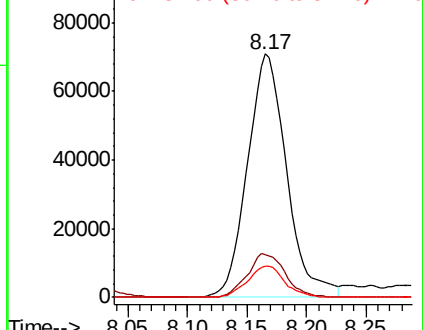
43 100

61 17.4 15.4 23.0

87 12.0 9.8 14.8



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



#48

Methyl methacrylate

Concen: 1.351 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN052083.D

Acq: 31 Oct 2018 19:26

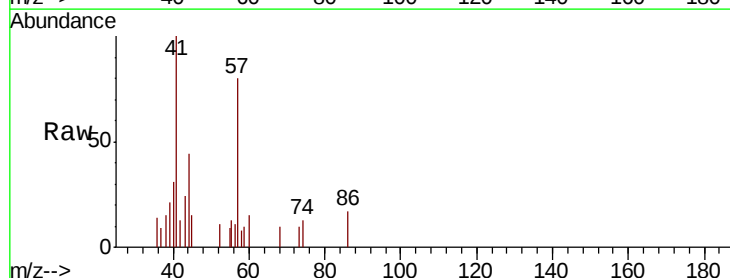
Tgt Ion: 41 Resp: 4351

Ion Ratio Lower Upper

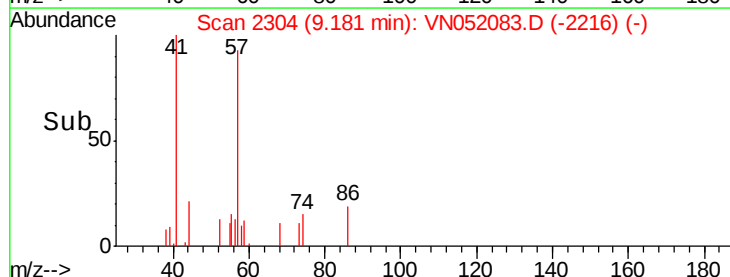
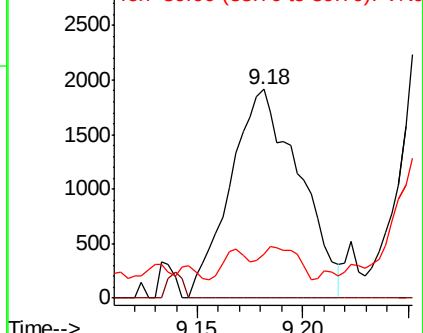
41 100

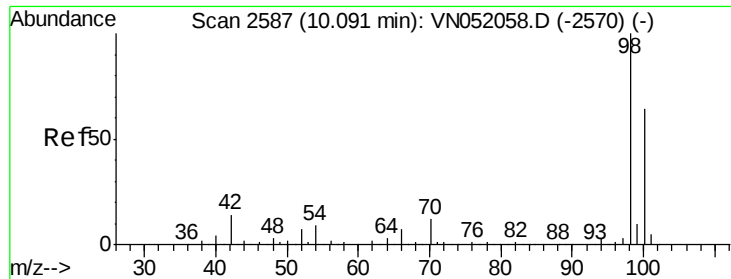
69 0.0 67.1 100.7#

39 7.1 50.5 75.7#



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





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN052083.D

Acq: 31 Oct 2018 19:26

Instrument :

MSVOA_N

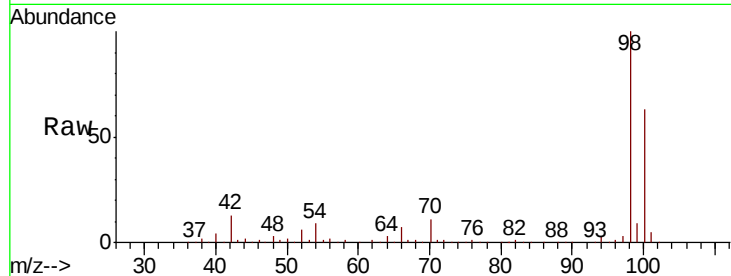
ClientSampled :

Tot Ion: 98 Resp: 791411

Ion Ratio Lower Upper

98 100

100 63.2 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.09

400000

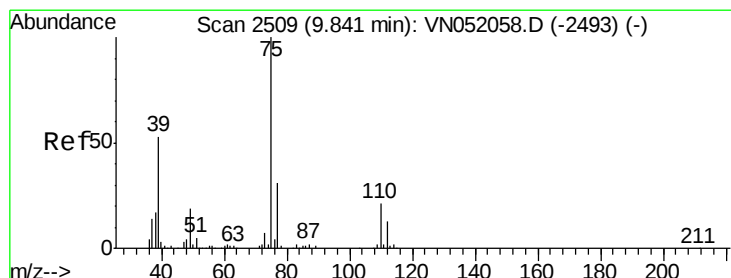
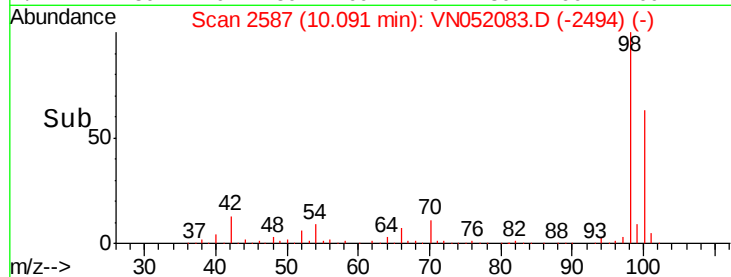
300000

200000

100000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 0.207 ug/l

RT: 9.90 min Scan# 2527

Delta R.T. 0.06 min

Lab File: VN052083.D

Acq: 31 Oct 2018 19:26

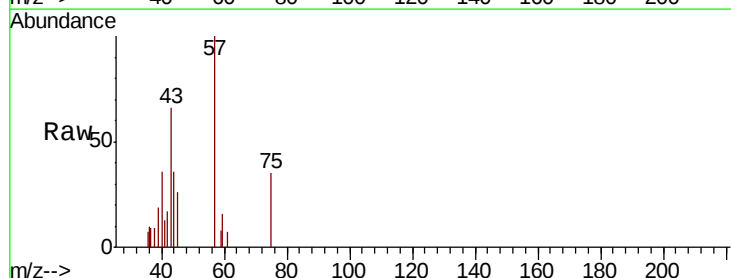
Tgt Ion: 75 Resp: 1243

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.4#

39 24.6 42.3 63.5#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

1000

800

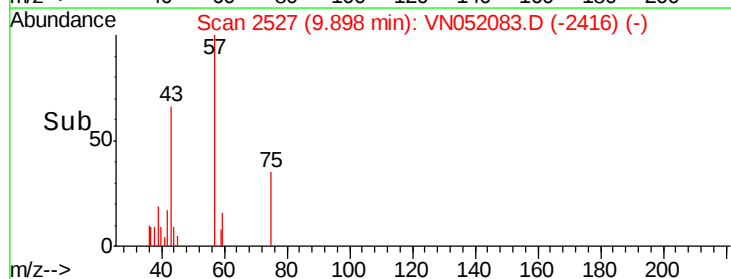
600

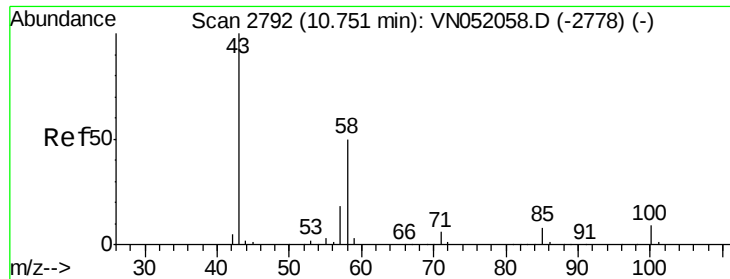
400

200

0

Time-->





#59

2-Hexanone

Concen: 3.660 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.02 min

Lab File: VN052083.D

Acq: 31 Oct 2018 19:26

Instrument :

MSVOA_N

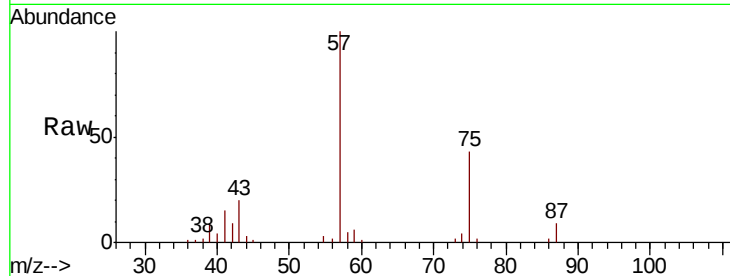
ClientSampled :

Tot Ion: 43 Resp: 9007

Ion Ratio Lower Upper

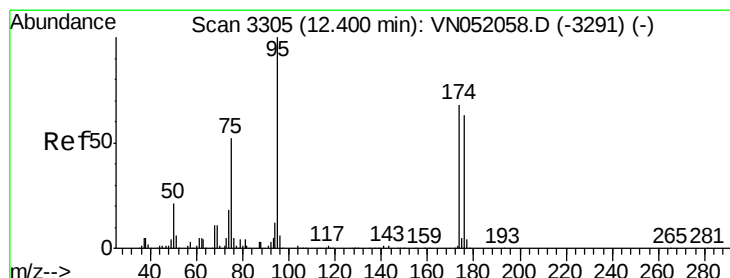
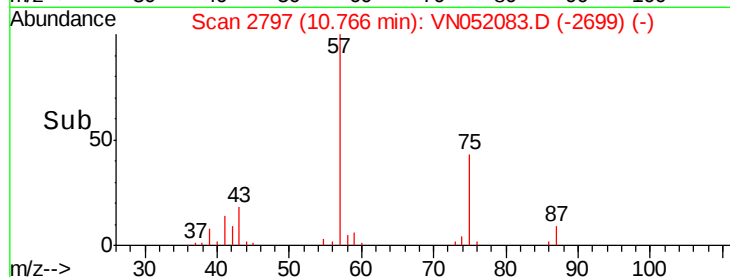
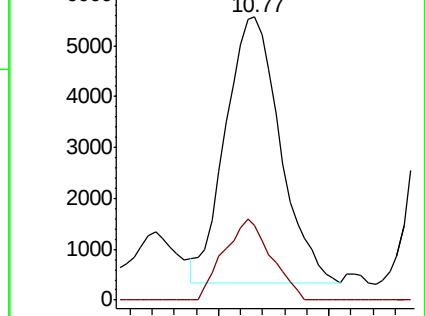
43 100

58 26.2 25.2 75.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN052083.D

Acq: 31 Oct 2018 19:26

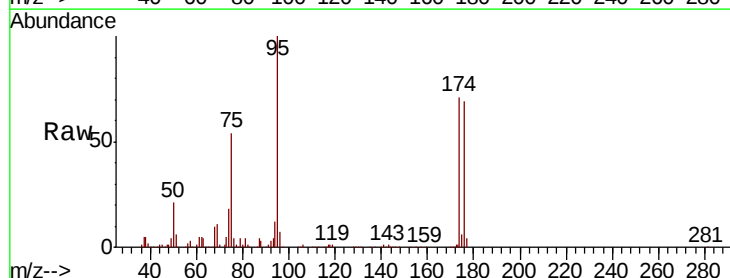
Tgt Ion: 95 Resp: 271639

Ion Ratio Lower Upper

95 100

174 71.3 0.0 131.8

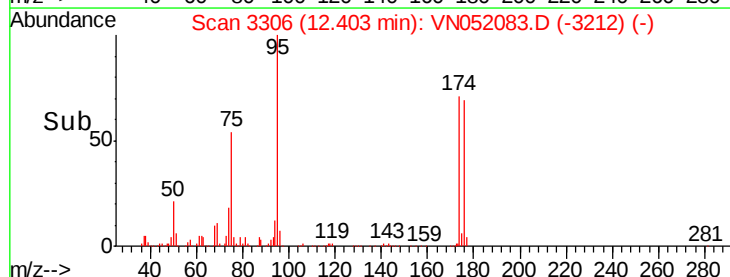
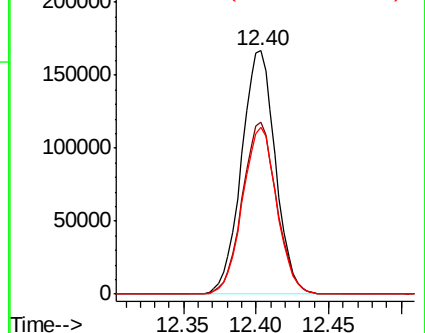
176 69.0 0.0 126.0

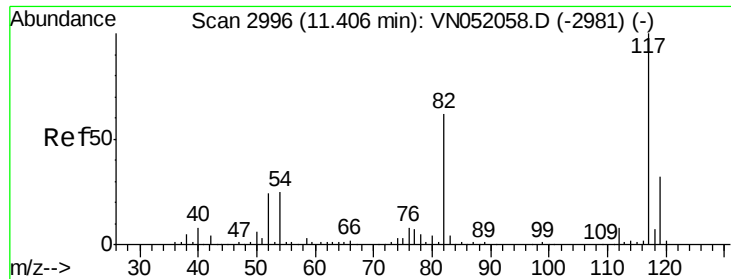


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

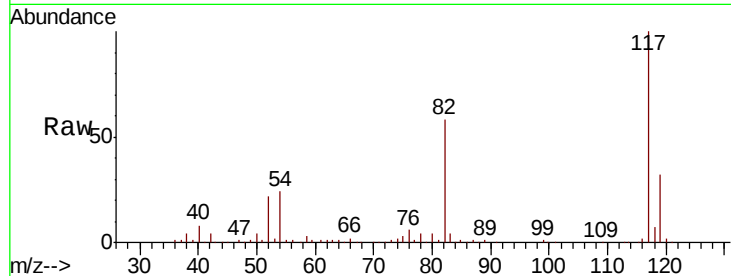




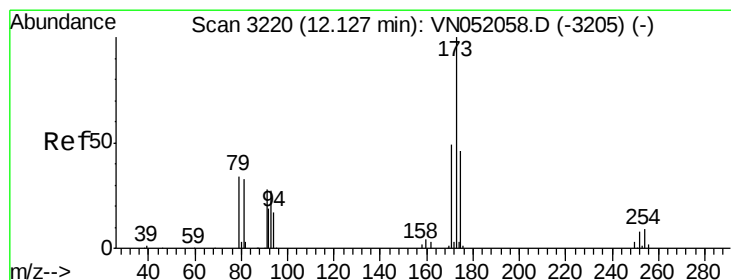
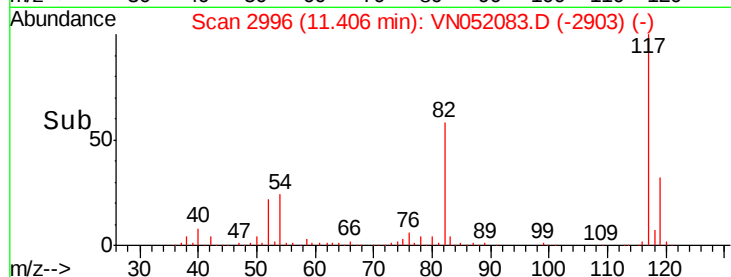
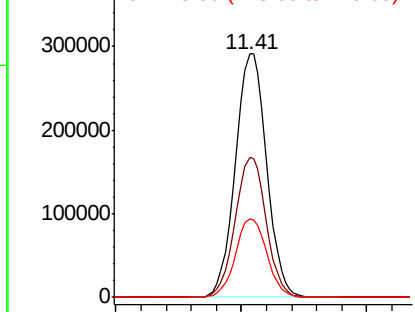
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052083.D
Acq: 31 Oct 2018 19:26

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 505521
Ion Ratio Lower Upper
117 100
82 57.5 49.9 74.9
119 32.3 25.7 38.5

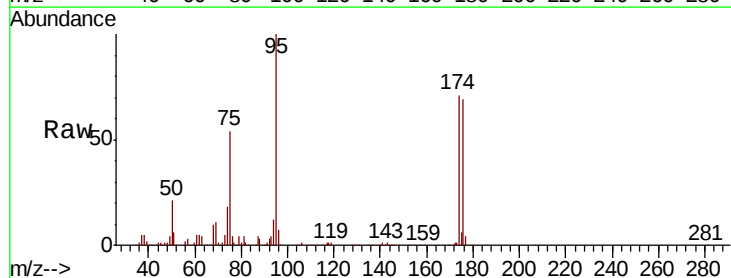


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

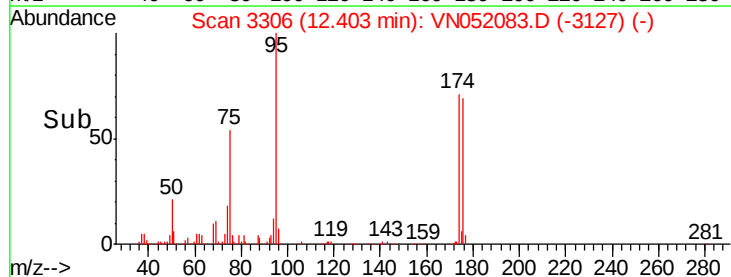
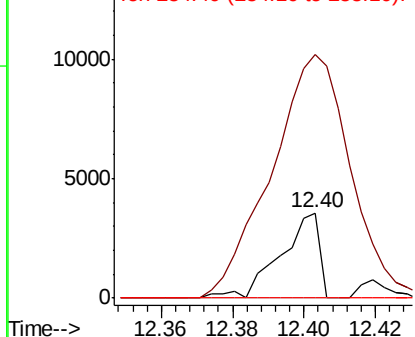


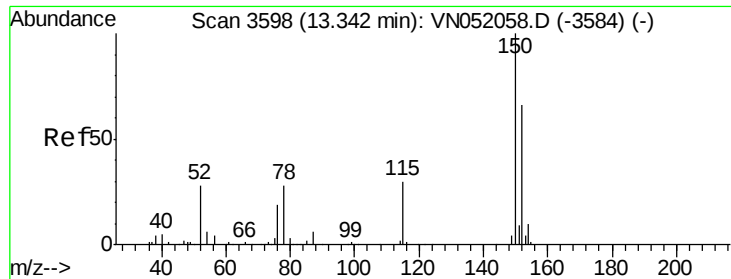
#71
Bromoform
Concen: 3.371 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN052083.D
Acq: 31 Oct 2018 19:26

Tgt Ion:173 Resp: 2680
Ion Ratio Lower Upper
173 100
175 521.6 23.9 71.7#
254 0.0 0.0 0.0



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN052083.D

Acq: 31 Oct 2018 19:26

Instrument :

MSVOA_N

ClientSampled :

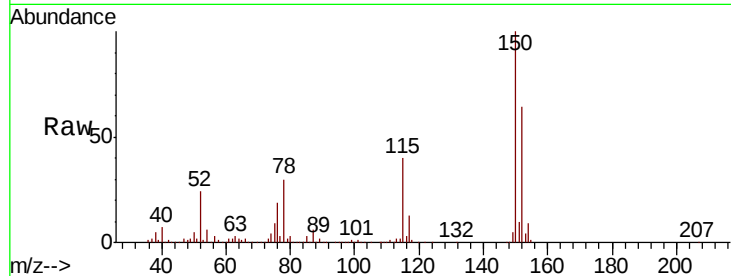
Tot Ion:152 Resp: 204868

Ion Ratio Lower Upper

152 100

115 62.2 31.6 95.0

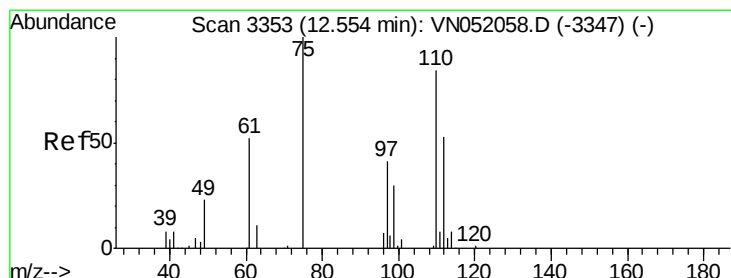
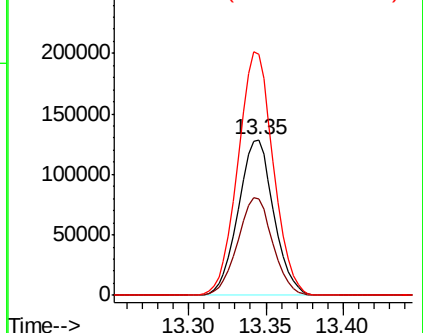
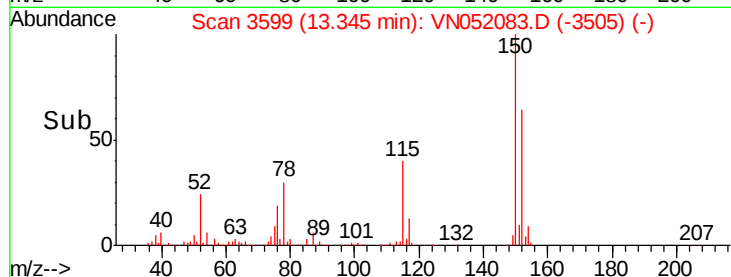
150 156.0 0.0 345.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 37.996 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052083.D

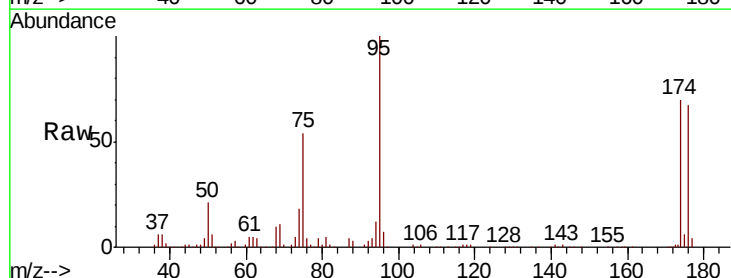
Acq: 31 Oct 2018 19:26

Tgt Ion: 75 Resp: 142491

Ion Ratio Lower Upper

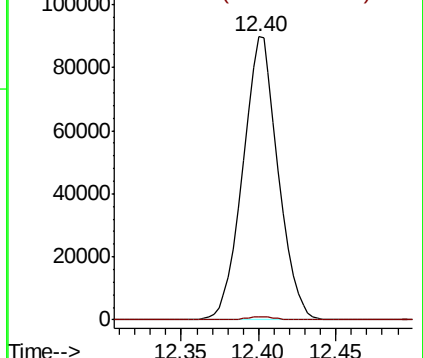
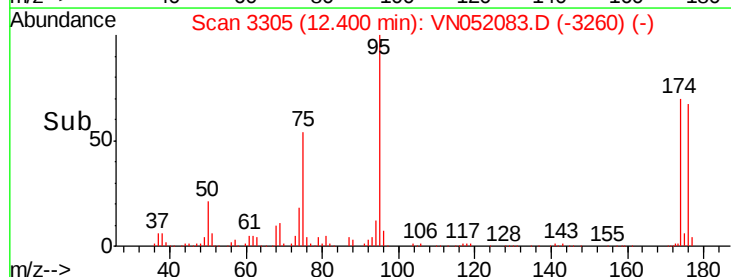
75 100

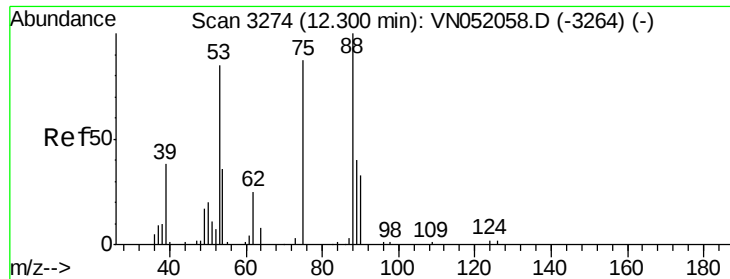
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 126.113 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052083.D

Acq: 31 Oct 2018 19:26

Instrument :

MSVOA_N

ClientSampled :

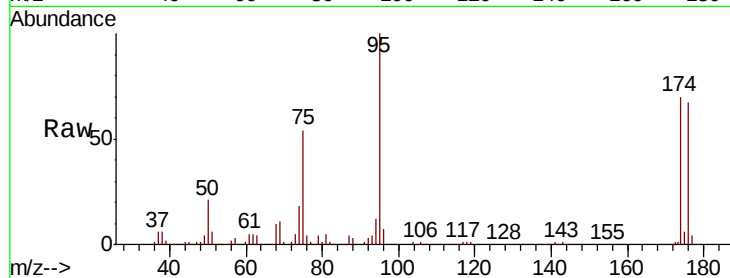
Tot Ion: 75 Resp: 142491

Ion Ratio Lower Upper

75 100

53 0.1 81.8 122.6#

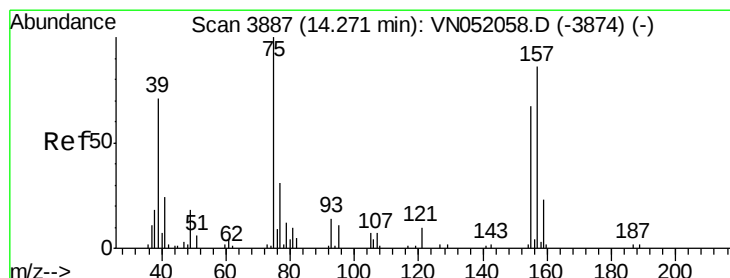
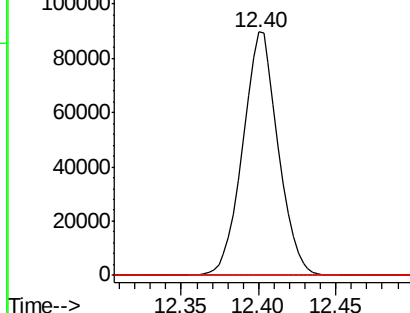
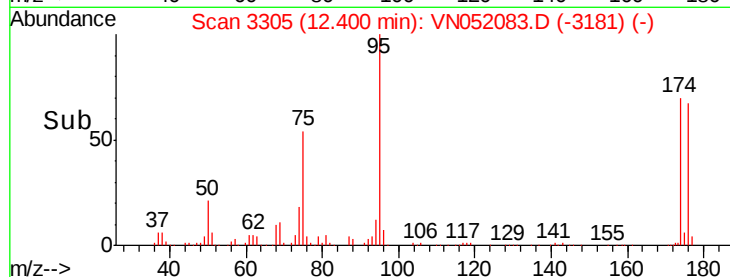
89 0.1 36.6 54.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.019 ug/l

RT: 14.26 min Scan# 3883

Delta R.T. -0.01 min

Lab File: VN052083.D

Acq: 31 Oct 2018 19:26

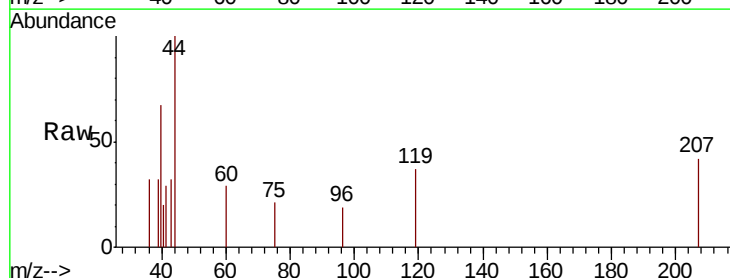
Tgt Ion: 75 Resp: 62

Ion Ratio Lower Upper

75 100

155 0.0 34.0 102.0#

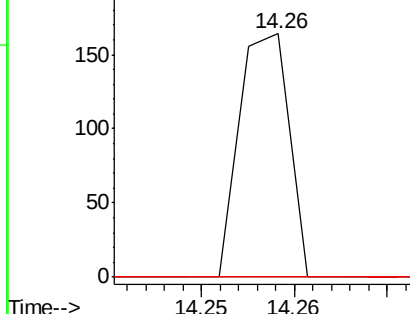
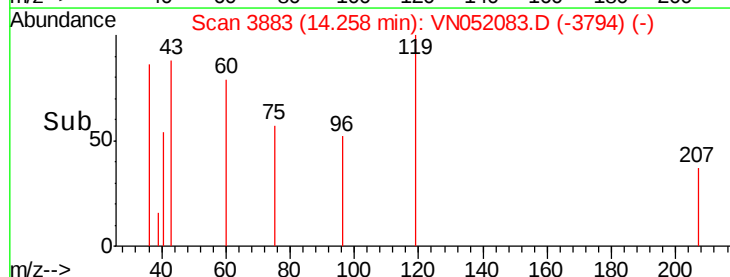
157 0.0 42.1 126.4#

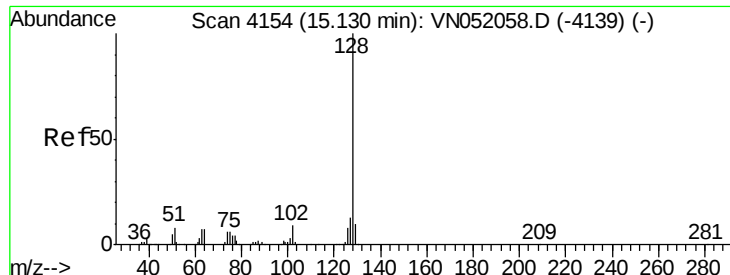


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#95

Naphthalene

Concen: 1.552 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

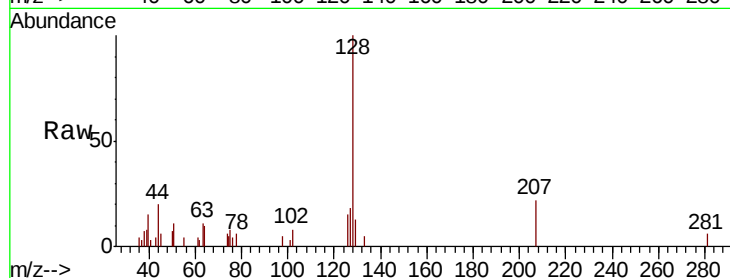
Lab File: VN052083.D

Acq: 31 Oct 2018 19:26

Instrument :

MSVOA_N

ClientSampleId :



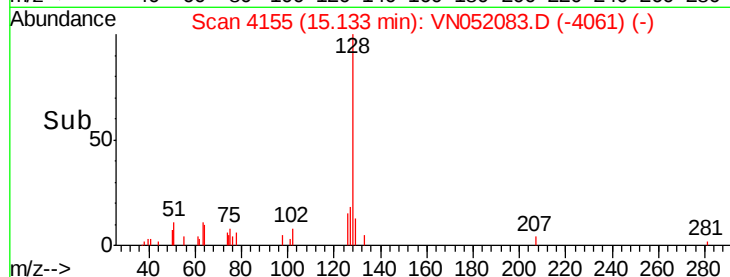
Tot Ion:128 Resp: 9110

Ion Ratio Lower Upper

128 100

127 16.5 10.5 15.7#

129 11.5 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

